

If you plan to submit a bid directly to the Department of Transportation

PREQUALIFICATION

Any contractor who desires to become pre-qualified to bid on work advertised by IDOT must submit the properly completed pre-qualification forms to the Bureau of Construction no later than 4:30 p.m. prevailing time twenty-one days prior to the letting of interest. This pre-qualification requirement applies to first time contractors, contractors renewing expired ratings, contractors maintaining continuous pre-qualification or contractors requesting revised ratings. To be eligible to bid, existing pre-qualification ratings must be effective through the date of letting.

REQUESTS FOR AUTHORIZATION TO BID

Contractors wanting to bid on items included in a particular letting must submit the properly completed "Request for Authorization to Bid/or Not For Bid Status" (BDE 124INT) and the ORIGINAL "Affidavit of Availability" (BC 57) to the proper office no later than 4:30 p.m. prevailing time, three (3) days prior to the letting date.

WHO CAN BID ?

Bids will be accepted from only those companies that request and receive written **Authorization to Bid** from IDOT's Central Bureau of Construction.

WHAT CONSTITUTES WRITTEN AUTHORIZATION TO BID?: When a prospective prime bidder submits a "Request for Authorization to Bid/or Not For Bid Status"(BDE 124INT) he/she must indicate at that time which items are being requested For Bidding purposes. Only those items requested For Bidding will be analyzed. After the request has been analyzed, the bidder will be issued a **Proposal Denial and/or Authorization Form**, approved by the Central Bureau of Construction, that indicates which items have been approved For Bidding. If **Authorization to Bid** cannot be approved, the **Proposal Denial and/or Authorization Form** will indicate the reason for denial.

ABOUT AUTHORIZATION TO BID: Firms that have not received an authorization form within a reasonable time of complete and correct original document submittal should contact the department as to status. This is critical in the week before the letting. These documents must be received three days before the letting date. Firms unsure as to authorization status should call the Prequalification Section of the Bureau of Construction at the number listed at the end of these instructions.

ADDENDA AND REVISIONS: It is the contractor's responsibility to determine which, if any, addenda or revisions pertain to any project they may be bidding. Failure to incorporate all relevant addenda or revisions may cause the bid to be declared unacceptable.

Each addendum will be placed with the contract number. Addenda and revisions will also be placed on the Addendum/Revision Checklist and each subscription service subscriber will be notified by e-mail of each addendum and revision issued.

The Internet is the Department's primary way of doing business. The subscription server e-mails are an added courtesy the Department provides. It is suggested that bidders check IDOT's website at <http://www.dot.il.gov/desenv/delett.html> before submitting final bid information.

IDOT IS NOT RESPONSIBLE FOR ANY E-MAIL FAILURES.

Addenda Questions may be directed to the Contracts Office at (217)782-7806 or D&Econtracts@dot.il.gov

Technical Questions about downloading these files may be directed to Tim Garman (217)524-1642 or Timothy.Garman@illinois.gov.

WHAT MUST BE INCLUDED WHEN BIDS ARE SUBMITTED?: Bidders need not return the entire proposal when bids are submitted. That portion of the proposal that must be returned includes the following:

1. All documents from the Proposal Cover Sheet through the Proposal Bid Bond
2. Other special documentation and/or information that may be required by the contract special provisions

All proposal documents, including Proposal Guaranty Checks or Proposal Bid Bonds, should be stapled together to prevent loss when bids are processed by IDOT personnel.

ABOUT SUBMITTING BIDS: It is recommended that bidders deliver bids in person to insure they arrive at the proper location prior to the time specified for the receipt of bids. Any bid received at the place of letting after the time specified will not be accepted.

WHO SHOULD BE CALLED IF ASSISTANCE IS NEEDED?

Questions Regarding	Call
Prequalification and/or Authorization to Bid	217/782-3413
Preparation and submittal of bids	217/782-7806
Mailing of plans and proposals	217/782-7806

ADDENDUMS AND REVISIONS TO THE PROPOSAL FORMS

Planholders should verify that they have received and incorporated any addendum and/or revision prior to submitting their bid. Failure by the bidder to include an addendum or revision could result in a bid being rejected as irregular.

RETURN WITH BID

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Proposal Submitted By
Name
Address
City

Letting January 16, 2009

BIDDERS NEED NOT RETURN THE ENTIRE PROPOSAL
(See instructions inside front cover)

NOTICE TO PROSPECTIVE BIDDERS

This proposal can be used for bidding purposes by only those companies that request and receive written AUTHORIZATION TO BID from IDOT's Central Bureau of Construction.

(SEE INSTRUCTIONS ON THE INSIDE OF COVER)

**Notice To Bidders,
Specifications,
Proposal, Contract
and Contract Bond**



**Illinois Department
of Transportation**

Springfield, Illinois 62764

Contract No. 91368
CHAMPAIGN County
Section 00-00374-01-PV (Champaign)
Route FAP 807 (Curtis Road)
Project RS-ACHPP-HPP-1805(001)
District 5 Construction Funds

PLEASE MARK THE APPROPRIATE BOX BELOW:

- A Bid Bond is included.
- A Cashier's Check or a Certified Check is included

Prepared by

Checked by

F

(Printed by authority of the State of Illinois)

INSTRUCTIONS

ABOUT IDOT PROPOSALS: All proposals issued by IDOT are potential bidding proposals. Each proposal contains all Certifications and Affidavits, a Proposal Signature Sheet and a Proposal Bid Bond required for Prime Contractors to submit a bid after written **Authorization to Bid** has been issued by IDOT's Central Bureau of Construction.

WHO CAN BID?: Bids will be accepted from only those companies that request and receive written **Authorization to Bid** from IDOT's Central Bureau of Construction. To request authorization, a potential bidder must complete and submit Part B of the Request for Authorization to Bid/or Not For Bid Status form (BDE 124 INT) and submit an original Affidavit of Availability (BC 57).

WHAT CONSTITUTES WRITTEN AUTHORIZATION TO BID?: When a prospective prime bidder submits a "Request for Proposal Forms and Plans" he/she must indicate at that time which items are being requested For Bidding purposes. Only those items requested For Bidding will be analyzed. After the request has been analyzed, the bidder will be issued a **Proposal Denial and/or Authorization Form**, approved by the Central Bureau of Construction, that indicates which items have been approved For Bidding. If **Authorization to Bid** cannot be approved, the **Proposal Denial and/or Authorization Form** will indicate the reason for denial. If a contractor has requested to bid but has not received a **Proposal Denial and/or Authorization Form**, they should contact the Central Bureau of Construction in advance of the letting date.

WHAT MUST BE INCLUDED WHEN BIDS ARE SUBMITTED?: Bidders need not return the entire proposal when bids are submitted. That portion of the proposal that must be returned includes the following:

1. All documents from the Proposal Cover Sheet through the Proposal Bid Bond
2. Other special documentation and/or information that may be required by the contract special provisions

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Preparation and submittal of bids	217/782-7806
Mailing of CD-ROMS	217/782-7806

RETURN WITH BID



PROPOSAL

TO THE DEPARTMENT OF TRANSPORTATION

1. Proposal of _____

Taxpayer Identification Number (Mandatory) _____

for the improvement identified and advertised for bids in the Invitation for Bids as:

**Contract No. 91368
CHAMPAIGN County
Section 00-00374-01-PV (Champaign)
Project RS-ACHPP-HPP-1805(001)
Route FAP 807 (Curtis Road)
District 5 Construction Funds**

Project consists of grading and subgrade modifications for new roadway, PCC pavement over lime modified subgrade, combination curb and gutter, PCC sidewalks and driveways, storm sewers, culverts, pipe underdrains, installation of traffic signals, roadway lighting and landscaping on Curtis Road from Wynstone Drive to Wesley Avenue located in the city of Champaign.

2. The undersigned bidder will furnish all labor, material and equipment to complete the above described project in a good and workmanlike manner as provided in the contract documents provided by the Department of Transportation. This proposal will become part of the contract and the terms and conditions contained in the contract documents shall govern performance and payments.

RETURN WITH BID

3. **ASSURANCE OF EXAMINATION AND INSPECTION/WAIVER.** The undersigned further declares that he/she has carefully examined the proposal, plans, specifications, form of contract and contract bond, and special provisions, and that he/she has inspected in detail the site of the proposed work, and that he/she has familiarized themselves with all of the local conditions affecting the contract and the detailed requirements of construction, and understands that in making this proposal he/she waives all right to plead any misunderstanding regarding the same.
4. **EXECUTION OF CONTRACT AND CONTRACT BOND.** The undersigned further agrees to execute a contract for this work and present the same to the department within fifteen (15) days after the contract has been mailed to him/her. The undersigned further agrees that he/she and his/her surety will execute and present within fifteen (15) days after the contract has been mailed to him/her contract bond satisfactory to and in the form prescribed by the Department of Transportation, in the penal sum of the full amount of the contract, guaranteeing the faithful performance of the work in accordance with the terms of the contract.
5. **PROPOSAL GUARANTY.** Accompanying this proposal is either a bid bond on the department form, executed by a corporate surety company satisfactory to the department, or a proposal guaranty check consisting of a bank cashier's check or a properly certified check for not less than 5 per cent of the amount bid or for the amount specified in the following schedule:

<u>Amount of Bid</u>		<u>Proposal Guaranty</u>	<u>Amount of Bid</u>		<u>Proposal Guaranty</u>
Up to	\$5,000	\$150	\$2,000,000	to	\$3,000,000
\$5,000	to	\$300	\$3,000,000	to	\$5,000,000
\$10,000	to	\$1,000	\$5,000,000	to	\$7,500,000
\$50,000	to	\$3,000	\$7,500,000	to	\$10,000,000
\$100,000	to	\$5,000	\$10,000,000	to	\$15,000,000
\$150,000	to	\$7,500	\$15,000,000	to	\$20,000,000
\$250,000	to	\$12,500	\$20,000,000	to	\$25,000,000
\$500,000	to	\$25,000	\$25,000,000	to	\$30,000,000
\$1,000,000	to	\$50,000	\$30,000,000	to	\$35,000,000
\$1,500,000	to	\$75,000	over		\$35,000,000

Bank cashier's checks or properly certified checks accompanying proposals shall be made payable to the Treasurer, State of Illinois, when the state is awarding authority; the county treasurer, when a county is the awarding authority; or the city, village, or town treasurer, when a city, village, or town is the awarding authority.

If a combination bid is submitted, the proposal guaranties which accompany the individual proposals making up the combination will be considered as also covering the combination bid.

The amount of the proposal guaranty check is _____ \$(_____). If this proposal is accepted and the undersigned shall fail to execute a contract bond as required herein, it is hereby agreed that the amount of the proposal guaranty shall become the property of the State of Illinois, and shall be considered as payment of damages due to delay and other causes suffered by the State because of the failure to execute said contract and contract bond; otherwise, the bid bond shall become void or the proposal guaranty check shall be returned to the undersigned.

Attach Cashier's Check or Certified Check Here

In the event that one proposal guaranty check is intended to cover two or more proposals, the amount must be equal to the sum of the proposal guaranties which would be required for each individual proposal. If the guaranty check is placed in another proposal, state below where it may be found.

The proposal guaranty check will be found in the proposal for:

Item _____

Section No. _____

County _____

Mark the proposal cover sheet as to the type of proposal guaranty submitted.

RETURN WITH BID

6. **COMBINATION BIDS.** The undersigned further agrees that if awarded the contract for the sections contained in the following combination, he/she will perform the work in accordance with the requirements of each individual proposal comprising the combination bid specified in the schedule below, and that the combination bid shall be prorated against each section in proportion to the bid submitted for the same. If an error is found to exist in the gross sum bid for one or more of the individual sections included in a combination, the combination bid shall be corrected as provided in the specifications.

When a combination bid is submitted, the schedule below must be completed in each proposal comprising the combination.

If alternate bids are submitted for one or more of the sections comprising the combination, a combination bid must be submitted for each alternate.

Schedule of Combination Bids

Combination No.	Sections Included in Combination	Combination Bid	
		Dollars	Cents

7. **SCHEDULE OF PRICES.** The undersigned bidder submits herewith, in accordance with the rules and instructions, a schedule of prices for the items of work for which bids are sought. The unit prices bid are in U.S. dollars and cents, and all extensions and summations have been made. The bidder understands that the quantities appearing in the bid schedule are approximate and are provided for the purpose of obtaining a gross sum for the comparison of bids. If there is an error in the extension of the unit prices, the unit prices shall govern. Payment to the contractor awarded the contract will be made only for actual quantities of work performed and accepted or materials furnished according to the contract. The scheduled quantities of work to be done and materials to be furnished may be increased, decreased or omitted as provided elsewhere in the contract.

8. **CERTIFICATE OF AUTHORITY.** The undersigned bidder, if a business organized under the laws of another State, assures the Department that it will furnish a copy of its certificate of authority to do business in the State of Illinois with the return of the executed contract and bond. Failure to furnish the certificate within the time provided for execution of an awarded contract may be cause for cancellation of the award and forfeiture of the proposal guaranty to the State.

STATE JOB # - C-95-316-06
 PPS NBR - 5-10234-0000

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF PRICES
 CONTRACT NUMBER - 91368

ECMS002 DTGECM03 ECRM003 PAGE 1
 RUN DATE - 11/05/08
 RUN TIME - 184142

COUNTY NAME	CODE	DIST	SECTION NUMBER	PROJECT NUMBER	ROUTE		
CHAMPAIGN	019	05	00-00374-01-PV (CHAMPAIGN)	RS-ACHPP-HPP1805/001/000	FAP 807		
ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE DOLLARS	CENTS	TOTAL PRICE DOLLARS	CTS
A2000320	T-ACER MIY MOR 2-1/2	EACH	14.000 X	=			
A2004420	T-GINKGO BILOBA 2-1/2	EACH	7.000 X	=			
A2006520	T-QUERCUS BICOL 2-1/2	EACH	12.000 X	=			
A2006720	T-QUERCUS MACR 2-1/2	EACH	2.000 X	=			
A2007120	T-QUERCUS RUBRA 2-1/2	EACH	14.000 X	=			
A2007920	T-TILLIA AMER RD 2-1/2	EACH	10.000 X	=			
K0038000	PEREN PL WETLND EM TY	UNIT	34.000 X	=			
K1004469	PERENNIAL PLANTS P-TY	UNIT	1.000 X	=			
K1004572	PRAIRIE SEEDING SPL	ACRE	0.300 X	=			
XX002093	REMOV EXISTING RIPRAP	SQ YD	64.000 X	=			
XX002998	RD MAN 4 DIA T3V F&G	EACH	7.000 X	=			
XX003163	EM VEH PR SYS	EACH	1.000 X	=			
XX004735	RD INLET TY B T1 F&CL	EACH	9.000 X	=			
XX004921	PED PUSH-BUTTON SPL	EACH	4.000 X	=			
XX005400	RESTR D MAN 8 T1F CL	EACH	2.000 X	=			

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
XX005428	INTERN ILLUM ST SIGN	EACH	4.000 X	=			
XX005473	SS WM REQ T1 30"	FOOT	160.000 X	=			
XX005483	RD INLET TY B T1F OL	EACH	1.000 X	=			
XX005928	TRAF SIGL P 10FT SPL	EACH	2.000 X	=			
XX005929	TRAF SIGL P 14FT SPL	EACH	2.000 X	=			
XX006440	RD MAN 5 DIA T3V F&G	EACH	1.000 X	=			
XX006444	MULCH SPL	ACRE	3.600 X	=			
XX006582	BRICK SGN & FOUND REM	L SUM	1.000 X	=			
XX006971	SS 1 WAT MN 18	FOOT	81.000 X	=			
XX007487	LUM SV HM 250W SPEC	EACH	45.000 X	=			
XX007732	PCBC 10X2 SPL	FOOT	540.000 X	=			
XX007733	SALVAGED AGG MAT 8	SQ YD	350.000 X	=			
XX007734	SALVAGED AGG MAT 12	SQ YD	5,245.000 X	=			
XX007735	SALVAGED AGG MAT 24	SQ YD	7,292.000 X	=			
XX007736	JUN BX SPL 12X12X12	EACH	53.000 X	=			

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ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF PRICES
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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	CTS
				DOLLARS	CENTS		
XX007737	JUN BX SPL 13X24X12	EACH	7.000		=		
XX007738	LT P A 35MH 2-8MA	EACH	9.000		=		
XX007739	WIRELESS VEH DET SYS	EACH	1.000		=		
XX007740	FLEX POST BARRICADES	EACH	3.000		=		
XX007741	T-CELTIS LAE SH 2-1/2	EACH	12.000		=		
XX007742	T-ZELK SERR JZ 2-1/2	EACH	12.000		=		
XX007743	RDWY LIGHTING CON REM	FOOT	351.000		=		
XX007744	CONCRETE ENCASEMENTS	EACH	3.000		=		
X0301232	SURVEY MARKER VAULT	EACH	3.000		=		
X0321905	SS 1 WAT MN	FOOT	496.000		=		
X0321906	SS 1 WAT MN	FOOT	13.000		=		
X0321907	SS 2 WAT MN	FOOT	23.000		=		
X0321909	SS 2 WAT MN	FOOT	65.000		=		
X0323093	SS 1 WAT MN	FOOT	28.000		=		
X0323954	SS 2 WAT MN	FOOT	12.000		=		

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE
				DOLLARS	CENTS	
X0350810	BOLLARD REMOVAL	EACH	1.000	=		
X0932150	CURB & GUT OUTLET SPL	EACH	2.000	=		
X6020074	INLETS TA T3V F&G	EACH	20.000	=		
X6020125	RD INLET TY B T3 F&G	EACH	1.000	=		
X6020127	RD INLET TY B T3V F&G	EACH	12.000	=		
X7015005	CHANGEABLE MESSAGE SN	CAL DA	105.000	=		
X7240600	REM RE-ERECT EX SIGN	EACH	2.000	=		
X8250011	LIGHTING CONTROL L1	L SUM	1.000	=		
X8250012	LIGHTING CONTROL L2	L SUM	1.000	=		
X8250013	LIGHTING CONTROL L3	L SUM	1.000	=		
X8730027	ELCBL C GROUND 6 1C	FOOT	1,520.000	=		
X8760100	PED P-B POST UP AL T2	EACH	4.000	=		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.000	=		
Z0022800	FENCE REMOVAL	FOOT	95.000	=		
Z0023900	FILL EXIST WELLS	EACH	1.000	=		

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ILLINOIS DEPARTMENT OF TRANSPORTATION
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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE
				DOLLARS	CENTS	
Z0051500	REM & RESET ST SIGNS	EACH	1.000	=		
Z0059600	SAN SEW T2 8	FOOT	12.000	=		
Z0065900	SPL DITCH CHECKS	EACH	3.000	=		
Z0076600	TRAINEES	HOUR	500.000	=	0.80	400.00
20100110	TREE REMOV 6-15	UNIT	306.000	=		
20100210	TREE REMOV OVER 15	UNIT	360.000	=		
20101300	TREE PRUN 1-10	EACH	4.000	=		
20101350	TREE PRUN OVER 10	EACH	2.000	=		
20200100	EARTH EXCAVATION	CU YD	79,084.000	=		
20201200	REM & DISP UNS MATL	CU YD	3,367.000	=		
20300100	CHANNEL EXCAV	CU YD	18,267.000	=		
20800250	TRENCH BACKFILL SPL	CU YD	617.000	=		
21000300	GRAN EMBANK SPEC	TON	5,178.000	=		
21001000	GEOTECH FAB F/GR STAB	SQ YD	5,051.000	=		
21101505	TOPSOIL EXC & PLAC	CU YD	25,140.000	=		

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
21301072	EXPLOR TRENCH 72	FOOT	3,900.000	=			
25000314	SEEDING CL 4B	ACRE	0.500	=			
25000320	SEEDING CL 5	ACRE	0.600	=			
25000324	SEEDING CL 5B	ACRE	0.500	=			
25000400	NITROGEN FERT NUTR	POUND	2,916.000	=			
25000500	PHOSPHORUS FERT NUTR	POUND	2,916.000	=			
25000600	POTASSIUM FERT NUTR	POUND	2,916.000	=			
25000750	MOWING	ACRE	34.200	=			
25000900	SEEDING CL 1 SPL	ACRE	3.600	=			
25001000	SEEDING CL 2 SPL	ACRE	28.800	=			
25100115	MULCH METHOD 2	ACRE	28.800	=			
25200100	SODDING	SQ YD	8,371.000	=			
25200200	SUPPLE WATERING	UNIT	1,652.000	=			
25400200	SELECT MOWING STAKES	EACH	62.000	=			
28000255	TEMP EROS CONTR SEED	ACRE	32.400	=			

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ILLINOIS DEPARTMENT OF TRANSPORTATION
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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
28000300	TEMP DITCH CHECKS	EACH	41.000	=			
28000310	AGG DITCH CHECKS	EACH	4.000	=			
28000400	PERIMETER EROS BAR	FOOT	7,286.000	=			
28000500	INLET & PIPE PROTECT	EACH	24.000	=			
28000510	INLET FILTERS	EACH	59.000	=			
28101700	RIPRAP SPL	TON	432.000	=			
28200200	FILTER FABRIC	SQ YD	80.000	=			
28500200	PREC BLOCK REV MAT	SQ YD	80.000	=			
30200650	PROCESS MOD SOIL 12	SQ YD	11,915.000	=			
30201250	PROCESS MOD SOIL 24	SQ YD	38,593.000	=			
30201500	LIME	TON	2,050.000	=			
31101000	SUB GRAN MAT B	TON	1,726.000	=			
31101200	SUB GRAN MAT B 4	SQ YD	18,506.000	=			
31200100	STAB SUB-BASE 4	SQ YD	61,741.000	=			
35101100	AGG BASE CSE A 12	SQ YD	7,743.000	=			

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
35101400	AGG BASE CSE B	TON	205.000	=			
35102000	AGG BASE CSE B 8	SQ YD	1,123.000	X			
35300300	PCC BSE CSE 8	SQ YD	2,099.000	X			
40200800	AGG SURF CSE B	TON	679.000	X			
40201000	AGGREGATE-TEMP ACCESS	TON	420.000	X			
40600100	BIT MATLS PR CT	GALLON	10,581.000	X			
40600300	AGG PR CT	TON	16.000	X			
40600400	MIX CR JTS FLANGEWYS	TON	2.000	X			
40600845	P LEV BIND MM N90	TON	81.000	X			
40600895	CONSTRUC TEST STRIP	EACH	11.000	X			
40600982	HMA SURF REM BUTT JT	SQ YD	385.000	X			
40600985	PCC SURF REM BUTT JT	SQ YD	99.000	X			
40600990	TEMPORARY RAMP	SQ YD	354.000	X			
40603085	HMA BC IL-19.0 N70	TON	634.000	X			
40603240	P HMA BC IL19.0 N90	TON	1,337.000	X			

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
40603340	HMA SC "D" N70	TON	432.000	=			
40603545	P HMA SC "D" N90	TON	856.000	=			
42000301	PCC PVT 8 JOINTED	SQ YD	57,877.000	=			
42001300	PROTECTIVE COAT	SQ YD	63,731.000	=			
42300200	PCC DRIVEWAY PAVT 6	SQ YD	183.000	=			
42300400	PCC DRIVEWAY PAVT 8	SQ YD	677.000	=			
42400300	PC CONC SIDEWALK 6	SQ FT	35,590.000	=			
42400800	DETECTABLE WARNINGS	SQ FT	389.000	=			
44000100	PAVEMENT REM	SQ YD	490.000	=			
44000200	DRIVE PAVEMENT REM	SQ YD	712.000	=			
44000500	COMB CURB GUTTER REM	FOOT	2,122.000	=			
44000600	SIDEWALK REM	SQ FT	15,686.000	=			
44004400	PAVT REMOVAL SPL	SQ YD	30,095.000	=			
44201335	CL C PATCH T4 8	SQ YD	123.000	=			
44300200	STRIP REF CR CON TR	FOOT	4,494.000	=			

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				DOLLARS	CENTS		
48101200	AGGREGATE SHLDS B	TON	42.000	=			
48203017	HMA SHOULDERS 5	SQ YD	17,215.000	=			
48203029	HMA SHOULDERS 8	SQ YD	728.000	=			
50104400	CONC HDWL REM	EACH	6.000	=			
50105210	REM EXIST CULVERTS	FOOT	904.000	=			
50200100	STRUCTURE EXCAVATION	CU YD	516.000	=			
50300220	CLASS MS CONC	CU YD	13.600	=			
50300225	CONC STRUCT	CU YD	78.200	=			
50800105	REINFORCEMENT BARS	POUND	7,130.000	=			
50900805	PEDESTRIAN RAIL	FOOT	100.000	=			
54001001	BOX CUL END SEC C1	EACH	2.000	=			
54001002	BOX CUL END SEC C2	EACH	2.000	=			
54001003	BOX CUL END SEC C3	EACH	2.000	=			
54001004	BOX CUL END SEC C4	EACH	2.000	=			
54001005	BOX CUL END SEC C5	EACH	1.000	=			

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				DOLLARS	CENTS	DOLLARS	CTS
54001006	BOX CUL END SEC C6	EACH	2.000	=			
54001007	BOX CUL END SEC C7	EACH	2.000	=			
54001008	BOX CUL END SEC C8	EACH	1.000	=			
54010802	PCBC 8X2	FOOT	90.000	=			
54010803	PCBC 8X3	FOOT	24.000	=			
54011003	PCBC 10X3	FOOT	168.000	=			
54011204	PCBC 12X4	FOOT	120.000	=			
54020403	PCBC 4X3 (M273)	FOOT	270.000	=			
54020802	PCBC 8X2 (M273)	FOOT	114.000	=			
54020803	PCBC 8X3 (M273)	FOOT	314.000	=			
542A0220	P CUL CL A 1 15	FOOT	36.000	=			
542A0229	P CUL CL A 1 24	FOOT	322.000	=			
542A0235	P CUL CL A 1 30	FOOT	58.000	=			
542A1060	P CUL CL A 2 15	FOOT	192.000	=			
54206730	P CUL 1 RC EQV R-S 15	FOOT	140.000	=			

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
5421D024	P CUL CL D 1 24 TEMP	FOOT	40.000	=			
54213657	PRC FLAR END SEC 12	EACH	4.000	=			
54213660	PRC FLAR END SEC 15	EACH	7.000	=			
54213669	PRC FLAR END SEC 24	EACH	6.000	=			
54213675	PRC FLAR END SEC 30	EACH	3.000	=			
54213681	PRC FLAR END SEC 36	EACH	2.000	=			
54214500	PRC FL END S EQ RS 15	EACH	14.000	=			
54215424	CIP RC END SEC 24	EACH	1.000	=			
54247090	GRATING-C FL END S 12	EACH	4.000	=			
54247100	GRATING-C FL END S 15	EACH	7.000	=			
54247130	GRATING-C FL END S 24	EACH	5.000	=			
54247150	GRATING-C FL END S 30	EACH	3.000	=			
54247170	GRATING-C FL END S 36	EACH	2.000	=			
54248100	GRT-C FL END S EQV 15	EACH	14.000	=			
54248515	CONCRETE COLLAR	EACH	23.000	=			

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
550A0050	STORM SEW CL A 1 12	FOOT	1,379.000	X	=		
550A0070	STORM SEW CL A 1 15	FOOT	76.000	X	=		
550A0090	STORM SEW CL A 1 18	FOOT	96.000	X	=		
550A0120	STORM SEW CL A 1 24	FOOT	1,298.000	X	=		
550A0140	STORM SEW CL A 1 30	FOOT	42.000	X	=		
550A0160	STORM SEW CL A 1 36	FOOT	153.000	X	=		
550A0340	STORM SEW CL A 2 12	FOOT	118.000	X	=		
550A0360	STORM SEW CL A 2 15	FOOT	500.000	X	=		
550A0380	STORM SEW CL A 2 18	FOOT	215.000	X	=		
550A0430	STORM SEW CL A 2 30	FOOT	501.000	X	=		
550A0450	STORM SEW CL A 2 36	FOOT	12.000	X	=		
550B0340	STORM SEW CL B 2 12	FOOT	1,487.000	X	=		
550B0360	STORM SEW CL B 2 15	FOOT	514.000	X	=		
55034700	SS 1 RCEP S53 R34	FOOT	132.000	X	=		
55100200	STORM SEWER REM 6	FOOT	295.000	X	=		

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
55100300	STORM SEWER REM 8	FOOT	2,065.000	=			
55100400	STORM SEWER REM 10	FOOT	273.000	=			
55100500	STORM SEWER REM 12	FOOT	1,500.000	=			
55100900	STORM SEWER REM 18	FOOT	163.000	=			
55101200	STORM SEWER REM 24	FOOT	3,891.000	=			
55101600	STORM SEWER REM 36	FOOT	15.000	=			
59300100	CONTR LOW-STRENG MATL	CU YD	2,126.000	=			
60100060	CONC HDWL FOR P DRAIN	EACH	16.000	=			
60108100	PIPE UNDERDRAIN 4 SP	FOOT	8,628.000	=			
60224600	RD MAN 4 DIA T1F CL	EACH	7.000	=			
60225300	RD MAN 5 DIA T1F OL	EACH	1.000	=			
60225400	RD MAN 5 DIA T1F CL	EACH	10.000	=			
60225500	RD MAN 5 DIA T3F&G	EACH	3.000	=			
60226200	RD MAN 6 DIA T1F CL	EACH	2.000	=			
60228600	MAN SPL T1F CL	EACH	1.000	=			

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE
				DOLLARS	CENTS	
60234200	INLETS TA T1F OL	EACH	4.000	=		
60235700	INLETS TA T3F&G	EACH	6.000	=		
60247400	JUNCTION BOX N1	EACH	1.000	=		
60255500	MAN ADJUST	EACH	6.000	=		
60255800	MAN ADJ NEW T1F CL	EACH	1.000	=		
60255905	MAN ADJ NEW T3V F&G	EACH	1.000	=		
60257600	MAN ADJ F&G SPL	EACH	1.000	=		
60258000	MAN RECONST SPL	EACH	1.000	=		
60260400	INLETS ADJ NEW T1F CL	EACH	1.000	=		
60261100	INLETS ADJ NEW T9F&G	EACH	1.000	=		
60500040	REMOV MANHOLES	EACH	5.000	=		
60500060	REMOV INLETS	EACH	22.000	=		
60500065	REMOV INLETS SPL	EACH	1.000	=		
60500105	FILL MANHOLES	EACH	2.000	=		
60600605	CONC CURB TB	FOOT	31.000	=		

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	CTS
				DOLLARS	CENTS		
60602600	CONC GUTTER TA MOD	FOOT	337.000	=			
60603800	COMB CC&G TB6.12	FOOT	7,787.000	=			
60604400	COMB CC&G TB6.18	FOOT	62.000	=			
60605000	COMB CC&G TB6.24	FOOT	3,214.000	=			
60605400	COMB CC&G TB6.24 SPL	FOOT	1,954.000	=			
60614600	PAVED DITCH SPEC	FOOT	5.000	=			
60619600	CONC MED TSB6.12	SQ FT	20,078.000	=			
60620000	CONC MED TSB6.24	SQ FT	319.000	=			
61100605	MISC CONCRETE	CU YD	1.000	=			
61140200	STORM SEWER SPEC 12	FOOT	58.000	=			
66600105	FUR ERECT ROW MARKERS	EACH	51.000	=			
66700095	PERM SURV MKRS	EACH	3.000	=			
67000400	ENGR FIELD OFFICE A	CAL MO	20.000	=			
67100100	MOBILIZATION	L SUM	1.000	=			
70103700	TRAF CONT COMPL	L SUM	1.000	=			

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE
				DOLLARS	CENTS	
70300520	PAVT MARK TAPE T3 4	FOOT	1,512.000	=		
70300570	PAVT MARK TAPE T3 24	FOOT	66.000	=		
70301000	WORK ZONE PAVT MK REM	SQ FT	368.000	=		
72000200	SIGN PANEL T2	SQ FT	48.000	=		
78000100	THPL PVT MK LTR & SYM	SQ FT	368.000	=		
78000200	THPL PVT MK LINE 4	FOOT	21,902.000	=		
78000400	THPL PVT MK LINE 6	FOOT	385.000	=		
78000600	THPL PVT MK LINE 12	FOOT	645.000	=		
78000650	THPL PVT MK LINE 24	FOOT	31.000	=		
780008300	POLYUREA PM T2 LTR-SY	SQ FT	871.000	=		
780008310	POLYUREA PM T2 LN 4	FOOT	48,215.000	=		
780008330	POLYUREA PM T2 LN 6	FOOT	1,319.000	=		
780008350	POLYUREA PM T2 LN 12	FOOT	1,427.000	=		
780008370	POLYUREA PM T2 LN 24	FOOT	331.000	=		
78300100	PAVT MARKING REMOVAL	SQ FT	460.000	=		

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				DOLLARS	CENTS	DOLLARS	CTS
78300200	RAISED REF PVT MK REM	EACH	60.000	=			
80400105	ELECT SERV INSTALL SP	EACH	3.000	=			
81012300	CON T 1 PVC	FOOT	101.000	=			
81012400	CON T 1 1/4 PVC	FOOT	927.000	=			
81012500	CON T 1 1/2 PVC	FOOT	594.000	=			
81012600	CON T 2 PVC	FOOT	14,331.000	=			
81012700	CON T 2 1/2 PVC	FOOT	128.000	=			
81012800	CON T 3 PVC	FOOT	38.000	=			
81013000	CON T 4 PVC	FOOT	10.000	=			
81013100	CON T 5 PVC	FOOT	10.000	=			
81021550	CON AUGERED 2 PVC	FOOT	2,292.000	=			
81021590	CON AUGERED 4 PVC	FOOT	470.000	=			
81021600	CON AUGERED 5 PVC	FOOT	275.000	=			
81306500	REM EX JUNCTION BOX	EACH	2.000	=			
81400700	HANDHOLE PCC	EACH	3.000	=			

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE
				DOLLARS	CENTS	
81400720	DBL HANDHOLE PCC	EACH	1.000	=		
81400730	HANDHOLE C CONC	EACH	4.000	=		
81400740	DBL HANDHOLE C CONC	EACH	1.000	=		
81500120	GULFBOX JUNCTION CC	EACH	5.000	=		
81702110	EC C XLP USE 1C 10	FOOT	7,425.000	=		
81702120	EC C XLP USE 1C 8	FOOT	23,300.000	=		
81702130	EC C XLP USE 1C 6	FOOT	45,200.000	=		
81702140	EC C XLP USE 1C 4	FOOT	7,950.000	=		
81900200	TR & BKFIL F ELECT WK	FOOT	3,707.000	=		
81900302	TR & BKFIL W SCR/SAND	FOOT	11,478.000	=		
82102250	LUM SV HOR MT 250W	EACH	58.000	=		
83007300	LT P A 35MH 8MA	EACH	36.000	=		
83008300	LT P A 40MH 8MA	EACH	43.000	=		
83600200	LIGHT POLE FDN 24D	FOOT	96.000	=		
83600405	POLE FOUNDATION STEEL	EACH	78.000	=		

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
84200500	REM EX LT UNIT SALV	EACH	6.000	=			
84200600	REM EX LT U NO SALV	EACH	1.000	=			
84200805	POLE FDN REMOV METAL	EACH	2.000	=			
84400105	RELOC EX LT UNIT	EACH	2.000	=			
85700200	FAC T4 CAB	EACH	1.000	=			
85700205	FAC T4 CAB SPL	EACH	1.000	=			
87301215	ELCBL C SIGNAL 14 2C	FOOT	1,980.000	=			
87301225	ELCBL C SIGNAL 14 3C	FOOT	3,050.000	=			
87301245	ELCBL C SIGNAL 14 5C	FOOT	5,190.000	=			
87301255	ELCBL C SIGNAL 14 7C	FOOT	4,460.000	=			
87301515	ELCBL C LEAD 18 3PR	FOOT	1,760.000	=			
87502640	TS POST A 10	EACH	2.000	=			
87502700	TS POST A 16	EACH	3.000	=			
87600200	PED PUSH-BUT POST T2	EACH	2.000	=			
87701230	S MAA & P 38 SPL	EACH	1.000	=			

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE
				DOLLARS	CENTS	
87701280	S MAA & P 48 SPL	EACH	1.000	X	=	
87702920	STL COMB MAA&P 38	EACH	1.000	X	=	
87702940	STL COMB MAA&P 42	EACH	1.000	X	=	
87702960	STL COMB MAA&P 46	EACH	1.000	X	=	
87702970	STL COMB MAA&P 48	EACH	1.000	X	=	
87704120	STL COMB MAA&P 38 SPL	EACH	1.000	X	=	
87704180	STL COMB MAA&P 50 SPL	EACH	1.000	X	=	
87800100	CONC FDN TY A	FOOT	27.000	X	=	
87800150	CONC FDN TY C	FOOT	4.000	X	=	
87800200	CONC FDN TY D	FOOT	4.000	X	=	
87800415	CONC FDN TY E 36D	FOOT	112.000	X	=	
88040070	SH P LED 1F 3S BM	EACH	9.000	X	=	
88040090	SH P LED 1F 3S MAM	EACH	12.000	X	=	
88040150	SH P LED 1F 5S BM	EACH	7.000	X	=	
88040160	SH P LED 1F 5S MAM	EACH	10.000	X	=	

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
88040260	SH P LED 2F 1-3 1-5BM	EACH	3.000	=	=	=	=
88102810	PED SH P LED 1F BM	EACH	16.000	=	=	=	=
88200100	TS BACKPLATE	EACH	22.000	=	=	=	=
88500100	INDUCTIVE LOOP DETECT	EACH	6.000	=	=	=	=
88600100	DET LOOP T1	FOOT	600.000	=	=	=	=
88700200	LIGHT DETECTOR	EACH	4.000	=	=	=	=
88700300	LIGHT DETECTOR AMP	EACH	1.000	=	=	=	=
88800100	PED PUSH-BUTTON	EACH	6.000	=	=	=	=
TOTAL				\$			

- 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.

RETURN WITH BID

STATE REQUIRED ETHICAL STANDARDS GOVERNING CONTRACT PROCUREMENT: ASSURANCES, CERTIFICATIONS AND DISCLOSURES

I. GENERAL

A. Article 50 of the Illinois Procurement Code establishes the duty of all State chief procurement officers, State purchasing officers, and their designees to maximize the value of the expenditure of public moneys in procuring goods, services, and contracts for the State of Illinois and to act in a manner that maintains the integrity and public trust of State government. In discharging this duty, they are charged by law to use all available information, reasonable efforts, and reasonable actions to protect, safeguard, and maintain the procurement process of the State of Illinois.

B. In order to comply with the provisions of Article 50 and to carry out the duty established therein, all bidders are to adhere to ethical standards established for the procurement process, and to make such assurances, disclosures and certifications required by law. By execution of the Proposal Signature Sheet, the bidder indicates that each of the mandated assurances has been read and understood, that each certification is made and understood, and that each disclosure requirement has been understood and completed.

C. In addition to all other remedies provided by law, failure to comply with any assurance, failure to make any disclosure or the making of a false certification shall be grounds for termination of the contract and the suspension or debarment of the bidder.

II. ASSURANCES

A. The assurances hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder. The Department may terminate the contract if it is later determined that the bidder rendered a false or erroneous assurance, and the surety providing the performance bond shall be responsible for the completion of the contract.

B. Felons

1. The Illinois Procurement Code provides:

Section 50-10. Felons. Unless otherwise provided, no person or business convicted of a felony shall do business with the State of Illinois or any state agency from the date of conviction until 5 years after the date of completion of the sentence for that felony, unless no person held responsible by a prosecutorial office for the facts upon which the conviction was based continues to have any involvement with the business.

2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-10.

C. Conflicts of Interest

1. The Illinois Procurement Code provides in pertinent part:

Section 50-13. Conflicts of Interest.

(a) Prohibition. It is unlawful for any person holding an elective office in this State, holding a seat in the General Assembly, or appointed to or employed in any of the offices or agencies of state government and who receives compensation for such employment in excess of 60% of the salary of the Governor of the State of Illinois, or who is an officer or employee of the Capital Development Board or the Illinois Toll Highway Authority, or who is the spouse or minor child of any such person to have or acquire any contract, or any direct pecuniary interest in any contract therein, whether for stationery, printing, paper, or any services, materials, or supplies, that will be wholly or partially satisfied by the payment of funds appropriated by the General Assembly of the State of Illinois or in any contract of the Capital Development Board or the Illinois Toll Highway authority.

(b) Interests. It is unlawful for any firm, partnership, association or corporation, in which any person listed in subsection (a) is entitled to receive (i) more than 7 1/2% of the total distributable income or (ii) an amount in excess of the salary of the Governor, to have or acquire any such contract or direct pecuniary interest therein.

(c) Combined interests. It is unlawful for any firm, partnership, association, or corporation, in which any person listed in subsection (a) together with his or her spouse or minor children is entitled to receive (i) more than 15%, in the aggregate, of the total distributable income or (ii) an amount in excess of 2 times the salary of the Governor, to have or acquire any such contract or direct pecuniary interest therein.

(d) Securities. Nothing in this Section invalidates the provisions of any bond or other security previously offered or to be offered for sale or sold by or for the State of Illinois.

(e) Prior interests. This Section does not affect the validity of any contract made between the State and an officer or employee of the State or member of the General Assembly, his or her spouse, minor child or any combination of those persons if that contract was in existence before his or her election or employment as an officer, member, or employee. The contract is voidable, however, if it cannot be completed within 365 days after the officer, member, or employee takes office or is employed.

The current salary of the Governor is \$171,000.00. Sixty percent of the salary is \$102,600.00.

RETURN WITH BID

2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-13, or that an effective exemption has been issued by the Board of Ethics to any individual subject to the Section 50-13 prohibitions pursuant to the provisions of Section 50-20 of the Code and Executive Order Number 3 (1998). Information concerning the exemption process is available from the Department upon request.

D. Negotiations

1. The Illinois Procurement Code provides in pertinent part:

Section 50-15. Negotiations.

(a) It is unlawful for any person employed in or on a continual contractual relationship with any of the offices or agencies of State government to participate in contract negotiations on behalf of that office or agency with any firm, partnership, association, or corporation with whom that person has a contract for future employment or is negotiating concerning possible future employment.

2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-15, and that the bidder has no knowledge of any facts relevant to the kinds of acts prohibited therein.

E. Inducements

1. The Illinois Procurement Code provides:

Section 50-25. Inducement. Any person who offers or pays any money or other valuable thing to any person to induce him or her not to bid for a State contract or as recompense for not having bid on a State contract is guilty of a Class 4 felony. Any person who accepts any money or other valuable thing for not bidding for a State contract or who withholds a bid in consideration of the promise for the payment of money or other valuable thing is guilty of a Class 4 felony.

2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-25, and that the bidder has no knowledge of any facts relevant to the kinds of acts prohibited therein.

F. Revolving Door Prohibition

1. The Illinois Procurement Code provides:

Section 50-30. Revolving door prohibition. Chief procurement officers, associate procurement officers, State purchasing officers, their designees whose principal duties are directly related to State procurement, and executive officers confirmed by the Senate are expressly prohibited for a period of 2 years after terminating an affected position from engaging in any procurement activity relating to the State agency most recently employing them in an affected position for a period of at least 6 months. The prohibition includes, but is not limited to: lobbying the procurement process; specifying; bidding; proposing bid, proposal, or contract documents; on their own behalf or on behalf of any firm, partnership, association, or corporation. This Section applies only to persons who terminate an affected position on or after January 15, 1999.

2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-30, and that the bidder has no knowledge of any facts relevant to the kinds of acts prohibited therein.

G. Reporting Anticompetitive Practices

1. The Illinois Procurement Code provides:

Section 50-40. Reporting anticompetitive practices. When, for any reason, any vendor, bidder, contractor, chief procurement officer, State purchasing officer, designee, elected official, or State employee suspects collusion or other anticompetitive practice among any bidders, offerors, contractors, proposers, or employees of the State, a notice of the relevant facts shall be transmitted to the Attorney General and the chief procurement officer.

2. The bidder assures the Department that it has not failed to report any relevant facts concerning the practices addressed in Section 50-40 which may involve the contract for which the bid is submitted.

H. Confidentiality

1. The Illinois Procurement Code provides:

Section 50-45. Confidentiality. Any chief procurement officer, State purchasing officer, designee, or executive officer who willfully uses or allows the use of specifications, competitive bid documents, proprietary competitive information, proposals, contracts, or selection information to compromise the fairness or integrity of the procurement, bidding, or contract process shall be subject to immediate dismissal, regardless of the Personnel code, any contract, or any collective bargaining agreement, and may in addition be subject to criminal prosecution.

2. The bidder assures the Department that it has no knowledge of any fact relevant to the practices addressed in Section 50-45 which may involve the contract for which the bid is submitted.

RETURN WITH BID

I. Insider Information

1. The Illinois Procurement Act provides:

Section 50-50. Insider information. It is unlawful for any current or former elected or appointed State official or State employee to knowingly use confidential information available only by virtue of that office or employment for actual or anticipated gain for themselves or another person.

2. The bidder assures the Department that it has no knowledge of any facts relevant to the practices addressed in Section 50-50 which may involve the contract for which the bid is submitted.

III. CERTIFICATIONS

A. The certifications hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder. The Department may terminate the contract if it is later determined that the bidder rendered a false or erroneous certification, and the surety providing the performance bond shall be responsible for completion of the contract.

B. Bribery

1. The Illinois Procurement Code provides:

Section 50-5. Bribery.

- (a) Prohibition. No person or business shall be awarded a contract or subcontract under this Code who:

- (1) has been convicted under the laws of Illinois or any other state of bribery or attempting to bribe an officer or employee of the State of Illinois or any other state in that officer's or employee's official capacity; or

- (2) has made an admission of guilt of that conduct that is a matter of record but has not been prosecuted for that conduct.

- (b) Businesses. No business shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of the business if the employee or agent is no longer employed by the business and:

- (1) the business has been finally adjudicated not guilty; or

- (2) the business demonstrates to the governmental entity with which it seeks to contract, and that entity finds that the commission of the offense was not authorized, requested, commanded, or performed by a director, officer, or high managerial agent on behalf of the business as provided in paragraph (2) of subsection (a) of Section 5-4 of the Criminal Code of 1961.

- (c) Conduct on behalf of business. For purposes of this Section, when an official, agent, or employee of a business committed the bribery or attempted bribery on behalf of the business and in accordance with the direction or authorization of a responsible official of the business, the business shall be chargeable with the conduct.

- (d) Certification. Every bid submitted to and contract executed by the State shall contain a certification by the contractor that the contractor is not barred from being awarded a contract or subcontract under this Section. A contractor who makes a false statement, material to the certification, commits a Class 3 felony.

2. The bidder certifies that it is not barred from being awarded a contract under Section 50.5.

C. Educational Loan

1. Section 3 of the Educational Loan Default Act provides:

§ 3. No State agency shall contract with an individual for goods or services if that individual is in default, as defined in Section 2 of this Act, on an educational loan. Any contract used by any State agency shall include a statement certifying that the individual is not in default on an educational loan as provided in this Section.

2. The bidder, if an individual as opposed to a corporation, partnership or other form of business organization, certifies that the bidder is not in default on an educational loan as provided in Section 3 of the Act.

D. Bid-Rigging/Bid Rotating

1. Section 33E-11 of the Criminal Code of 1961 provides:

§ 33E-11. (a) Every bid submitted to and public contract executed pursuant to such bid by the State or a unit of local government shall contain a certification by the prime contractor that the prime contractor is not barred from contracting with any unit of State or local government as a result of a violation of either Section 33E-3 or 33E-4 of this Article. The State and units of local government shall provide the appropriate forms for such certification.

RETURN WITH BID

(b) A contractor who makes a false statement, material to the certification, commits a Class 3 felony.

A violation of Section 33E-3 would be represented by a conviction of the crime of bid-rigging which, in addition to Class 3 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be barred for 5 years from the date of conviction from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation.

A violation of Section 33E-4 would be represented by a conviction of the crime of bid-rotating which, in addition to Class 2 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be permanently barred from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation.

2. The bidder certifies that it is not barred from contracting with the Department by reason of a violation of either Section 33E-3 or Section 33E-4.

E. International Anti-Boycott

1. Section 5 of the International Anti-Boycott Certification Act provides:

§ 5. State contracts. Every contract entered into by the State of Illinois for the manufacture, furnishing, or purchasing of supplies, material, or equipment or for the furnishing of work, labor, or services, in an amount exceeding the threshold for small purchases according to the purchasing laws of this State or \$10,000.00, whichever is less, shall contain certification, as a material condition of the contract, by which the contractor agrees that neither the contractor nor any substantially-owned affiliated company is participating or shall participate in an international boycott in violation of the provisions of the U.S. Export Administration Act of 1979 or the regulations of the U.S. Department of Commerce promulgated under that Act.

2. The bidder makes the certification set forth in Section 5 of the Act.

F. Drug Free Workplace

1. The Illinois "Drug Free Workplace Act" applies to this contract and it is necessary to comply with the provisions of the "Act" if the contractor is a corporation, partnership, or other entity (including a sole proprietorship) which has 25 or more employees.

2. The bidder certifies that if awarded a contract in excess of \$5,000 it will provide a drug free workplace by:

(a) Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance, including cannabis, is prohibited in the contractor's workplace; specifying the actions that will be taken against employees for violations of such prohibition; and notifying the employee that, as a condition of employment on such contract, the employee shall abide by the terms of the statement, and notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction.

(b) Establishing a drug free awareness program to inform employees about the dangers of drug abuse in the workplace; the contractor's policy of maintaining a drug free workplace; any available drug counseling, rehabilitation, and employee assistance programs; and the penalties that may be imposed upon employees for drug violations.

(c) Providing a copy of the statement required by subparagraph (1) to each employee engaged in the performance of the contract and to post the statement in a prominent place in the workplace.

(d) Notifying the Department within ten (10) days after receiving notice from an employee or otherwise receiving actual notice of the conviction of an employee for a violation of any criminal drug statute occurring in the workplace.

(e) Imposing or requiring, within 30 days after receiving notice from an employee of a conviction or actual notice of such a conviction, an appropriate personnel action, up to and including termination, or the satisfactory participation in a drug abuse assistance or rehabilitation program approved by a federal, state or local health, law enforcement or other appropriate agency.

(f) Assisting employees in selecting a course of action in the event drug counseling, treatment, and rehabilitation is required and indicating that a trained referral team is in place.

(g) Making a good faith effort to continue to maintain a drug free workplace through implementation of the actions and efforts stated in this certification.

RETURN WITH BID

G. Debt Delinquency

1. The Illinois Procurement Code provides:

Section 50-11 and 50-12. Debt Delinquency.

The contractor or bidder certifies that it, or any affiliate, is not barred from being awarded a contract under 30 ILCS 500. Section 50-11 prohibits a person from entering into a contract with a State agency if it knows or should know that it, or any affiliate, is delinquent in the payment of any debt to the State as defined by the Debt Collection Board. Section 50-12 prohibits a person from entering into a contract with a State agency if it, or any affiliate, has failed to collect and remit Illinois Use Tax on all sales of tangible personal property into the State of Illinois in accordance with the provisions of the Illinois Use Tax Act. The contractor further acknowledges that the contracting State agency may declare the contract void if this certification is false or if the contractor, or any affiliate, is determined to be delinquent in the payment of any debt to the State during the term of the contract.

H. Sarbanes-Oxley Act of 2002

1. The Illinois Procurement Code, Section 50-60(c), provides:

The contractor certifies in accordance with 30 ILCS 500/50-10.5 that no officer, director, partner or other managerial agent of the contracting business has been convicted of a felony under the Sarbanes-Oxley Act of 2002 or a Class 3 or Class 2 felony under the Illinois Securities Law of 1953 for a period of five years prior to the date of the bid or contract. The contractor acknowledges that the contracting agency shall declare the contract void if this certification is false.

I. Addenda

The contractor or bidder certifies that all relevant addenda have been incorporated in to this contract. Failure to do so may cause the bid to be declared unacceptable.

J. Section 42 of the Environmental Protection Act

The contractor certifies in accordance with 30 ILCS 500/50-12 that the bidder or contractor is not barred from being awarded a contract under this Section which prohibits the bidding on or entering into contracts with the State of Illinois or a State agency by a person or business found by a court or the Pollution Control Board to have committed a willful or knowing violation of Section 42 of the Environmental Protection Act for a period of five years from the date of the order. The contractor acknowledges that the contracting agency may declare the contract void if this certification is false.

K. Apprenticeship and Training Certification (Does not apply to federal aid projects)

In accordance with the provisions of Section 30-22 (6) of the Illinois Procurement Code, the bidder certifies that it is a participant, either as an individual or as part of a group program, in the approved apprenticeship and training programs applicable to each type of work or craft that the bidder will perform with its own forces. The bidder further certifies for work that will be performed by subcontract that each of its subcontractors submitted for approval either (a) is, at the time of such bid, participating in an approved, applicable apprenticeship and training program; or (b) will, prior to commencement of performance of work pursuant to this contract, begin participation in an approved apprenticeship and training program applicable to the work of the subcontract. The Department, at any time before or after award, may require the production of a copy of each applicable Certificate of Registration issued by the United States Department of Labor evidencing such participation by the contractor and any or all of its subcontractors. Applicable apprenticeship and training programs are those that have been approved and registered with the United States Department of Labor. The bidder shall list in the space below, the official name of the program sponsor holding the Certificate of Registration for all of the types of work or crafts in which the bidder is a participant and that will be performed with the bidder's forces. Types of work or craft work that will be subcontracted shall be included and listed as subcontract work. The list shall also indicate any type of work or craft job category that does not have an applicable apprenticeship or training program. **The bidder is responsible for making a complete report and shall make certain that each type of work or craft job category that will be utilized on the project as reported on the Construction Employee Workforce Projection (Form BC-1256) and returned with the bid is accounted for and listed.**

NA - FEDERAL

The requirements of this certification and disclosure are a material part of the contract, and the contractor shall require this certification provision to be included in all approved subcontracts. In order to fulfill this requirement, it shall not be necessary that an applicable program sponsor be currently taking or that it will take applications for apprenticeship, training or employment during the performance of the work of this contract.

L. Executive Order Number 1 (2007) Regarding Lobbying on Government Procurements

The bidder hereby warrants and certifies that they have complied and will comply with the requirements set forth in this Order. The requirements of this warrant and certification are a material part of the contract, and the contractor shall require this warrant and certification provision to be included in all approved subcontracts.

RETURN WITH BID

M. Disclosure of Business Operations in Iran

Public Act 95-0616 provides that each bid, offer, or proposal submitted for a State contract shall include a disclosure of whether or not the Company acting as the bidder, offer or, or proposing entity, or any of its corporate parents or subsidiaries, within the 24 months before submission of the bid, offer, or proposal had business operations that involved contracts with or provision of supplies or services to the Government of Iran, companies in which the Government of Iran has any direct or indirect equity share, consortiums or projects commissioned by the Government of Iran, or companies involved in consortiums or projects commissioned by the Government of Iran and either of the following conditions apply:

- (1) More than 10% of the Company's revenues produced in or assets located in Iran involve oil-related activities or mineral-extraction activities; less than 75% of the Company's revenues produced in or assets located in Iran involve contracts with or provision of oil-related or mineral-extraction products or services to the Government of Iran or a project or consortium created exclusively by that government; and the Company has failed to take substantial action.
- (2) The Company has, on or after August 5, 1996, made an investment of \$20 million or more, or any combination of investments of at least \$10 million each that in the aggregate equals or exceeds \$20 million in any 12-month period, which directly or significantly contributes to the enhancement of Iran's ability to develop petroleum resources of Iran.

The terms "Business operations", "Company", "Mineral-extraction activities", "Oil-related activities", "Petroleum resources", and "Substantial action" are all defined in the Act.

Failure to make the disclosure required by the Act shall cause the bid, offer or proposal to be considered not responsive. The disclosure will be considered when evaluating the bid, offer, or proposal or awarding the contract. The name of each Company disclosed as doing business or having done business in Iran will be provided to the State Comptroller.

Check the appropriate statement:

Company has no business operations in Iran to disclose.

Company has business operations in Iran as disclosed the attached document.

TO BE RETURNED WITH BID

IV. DISCLOSURES

A. The disclosures hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder. The Department may terminate the contract if it is later determined that the bidder rendered a false or erroneous disclosure, and the surety providing the performance bond shall be responsible for completion of the contract.

B. Financial Interests and Conflicts of Interest

1. Section 50-35 of the Illinois Procurement Code provides that all bids of more than \$10,000 shall be accompanied by disclosure of the financial interests of the bidder. This disclosed information for the successful bidder, will be maintained as public information subject to release by request pursuant to the Freedom of Information Act.

The financial interests to be disclosed shall include ownership or distributive income share that is in excess of 5%, or an amount greater than 60% of the annual salary of the Governor, of the bidding entity or its parent entity, whichever is less, unless the contractor or bidder is a publicly traded entity subject to Federal 10K reporting, in which case it may submit its 10K disclosure in place of the prescribed disclosure. If a bidder is a privately held entity that is exempt from Federal 10K reporting, but has more than 400 shareholders, it may submit the information that Federal 10K companies are required to report, and list the names of any person or entity holding any ownership share that is in excess of 5%. The disclosure shall include the names, addresses, and dollar or proportionate share of ownership of each person making the disclosure, their instrument of ownership or beneficial relationship, and notice of any potential conflict of interest resulting from the current ownership or beneficial interest of each person making the disclosure having any of the relationships identified in Section 50-35 and on the disclosure form.

In addition, all disclosures shall indicate any other current or pending contracts, proposals, leases, or other ongoing procurement relationships the bidding entity has with any other unit of state government and shall clearly identify the unit and the contract, proposal, lease, or other relationship.

2. Disclosure Forms. Disclosure Form A is attached for use concerning the individuals meeting the above ownership or distributive share requirements. Subject individuals should be covered each by one form. In addition, a second form (Disclosure Form B) provides for the disclosure of current or pending procurement relationships with other (non-IDOT) state agencies. **The forms must be included with each bid or incorporated by reference.**

C. Disclosure Form Instructions

Form A: For bidders that have previously submitted the information requested in Form A

The Department has retained the Form A disclosures submitted by all bidders responding to these requirements for the April 24, 1998 or any subsequent letting conducted by the Department. The bidder has the option of submitting the information again or the bidder may check the following certification statement indicating that the information previously submitted by the bidder is, as of the date of submission, current and accurate. Before checking this certification, the bidder should carefully review its prior submissions to ensure the Certification is correct. If the Bidder checks the Certification, the Bidder should proceed to Form B instructions.

CERTIFICATION STATEMENT

I have determined that the Form A disclosure information previously submitted is current and accurate, and all forms are hereby incorporated by reference in this bid. Any necessary additional forms or amendments to previously submitted forms are attached to this bid.

(Bidding Company)



Signature of Authorized Representative

Date

Form A: For bidders who have NOT previously submitted the information requested in Form A

If the bidder is a publicly traded entity subject to Federal 10K reporting, the 10K Report may be submitted to meet the requirements of Form A. If a bidder is a privately held entity that is exempt from Federal 10K reporting, but has more than 400 shareholders, it may submit the information that Federal 10K companies are required to report, and list the names of any person or entity holding any ownership share that is in excess of 5%. If a bidder is not subject to Federal 10K reporting, the bidder must determine if any individuals are required by law to complete a financial disclosure form. To do this, the bidder should answer each of the following questions. A "YES" answer indicates Form A must be completed. If the answer to each of the following questions is "NO", then the NOT APPLICABLE STATEMENT on the second page of Form A must be signed and dated by a person that is authorized to execute contracts for the bidding company. Note: These questions are for assistance only and are not required to be completed.

1. Does anyone in your organization have a direct or beneficial ownership share of greater than 5% of the bidding entity or parent entity? YES ___ NO ___
2. Does anyone in your organization have a direct or beneficial ownership share of less than 5%, but which has a value greater than \$102,600.00? YES ___ NO ___
3. Does anyone in your organization receive more than \$102,600.00 of the bidding entity's or parent entity's distributive income? (Note: Distributive income is, for these purposes, any type of distribution of profits. An annual salary is not distributive income.) YES ___ NO ___
4. Does anyone in your organization receive greater than 5% of the bidding entity's or parent entity's total distributive income, but which is less than \$102,600.00? YES ___ NO ___
(Note: Only one set of forms needs to be completed per person per bid even if a specific individual would require a yes answer to more than one question.)

A "YES" answer to any of these questions requires the completion of Form A. The bidder must determine each individual in the bidding entity or the bidding entity's parent company that would cause the questions to be answered "Yes". Each form must be signed and dated by a person that is authorized to execute contracts for your organization. **Photocopied or stamped signatures are not acceptable.** The person signing can be, but does not have to be, the person for which the form is being completed. The bidder is responsible for the accuracy of any information provided.

If the answer to each of the above questions is "NO", then the NOT APPLICABLE STATEMENT on page 2 of Form A must be signed and dated by a person that is authorized to execute contracts for your company.

Form B: Identifying Other Contracts & Procurement Related Information Disclosure Form B must be completed for each bid submitted by the bidding entity. *Note: Checking the NOT APPLICABLE STATEMENT on Form A does not allow the bidder to ignore Form B. Form B must be completed, checked, and dated or the bidder may be considered nonresponsive and the bid will not be accepted.*

The Bidder shall identify, by checking Yes or No on Form B, whether it has any pending contracts (including leases), bids, proposals, or other ongoing procurement relationship with any other (non-IDOT) State of Illinois agency. If "No" is checked, the bidder only needs to complete the check box on the bottom of Form B. If "Yes" is checked, the bidder must do one of the following:

Option I: If the bidder did not submit an Affidavit of Availability to obtain authorization to bid, the bidder must list all non-IDOT State of Illinois agency pending contracts, leases, bids, proposals, and other ongoing procurement relationships. These items may be listed on Form B or on an attached sheet(s). Do not include IDOT contracts. Contracts with cities, counties, villages, etc. are not considered State of Illinois agency contracts and are not to be included. Contracts with other State of Illinois agencies such as the Department of Natural Resources or the Capital Development Board must be included. Bidders who submit Affidavits of Availability are suggested to use Option II.

Option II: If the bidder is required and has submitted an Affidavit of Availability in order to obtain authorization to bid, the bidder may write or type "See Affidavit of Availability" which indicates that the Affidavit of Availability is incorporated by reference and includes all non-IDOT State of Illinois agency pending contracts, leases, bids, proposals, and other ongoing procurement relationships. For any contracts that are not covered by the Affidavit of Availability, the bidder must identify them on Form B or on an attached sheet(s). These might be such things as leases.

D. Bidders Submitting More Than One Bid

Bidders submitting multiple bids may submit one set of forms consisting of all required Form A disclosures and one Form B for use with all bids. Please indicate in the space provided below the bid item that contains the original disclosure forms and the bid items which incorporate the forms by reference.

- The bid submitted for letting item _____ contains the Form A disclosures or Certification Statement and the Form B disclosures. The following letting items incorporate the said forms by reference:

RETURN WITH BID/OFFER

**ILLINOIS DEPARTMENT
OF TRANSPORTATION**

**Form A
Financial Information &
Potential Conflicts of Interest
Disclosure**

Contractor Name		
Legal Address		
City, State, Zip		
Telephone Number	Email Address	Fax Number (if available)

Disclosure of the information contained in this Form is required by the Section 50-35 of the Illinois Procurement Code (30 ILCS 500). Vendors desiring to enter into a contract with the State of Illinois must disclose the financial information and potential conflict of interest information as specified in this Disclosure Form. This information shall become part of the publicly available contract file. This Form A must be completed for bids in excess of \$10,000, and for all open-ended contracts. **A publicly traded company may submit a 10K disclosure (or equivalent if applicable) in satisfaction of the requirements set forth in Form A. See Disclosure Form Instructions.**

DISCLOSURE OF FINANCIAL INFORMATION

1. Disclosure of Financial Information. The individual named below has an interest in the BIDDER (or its parent) in terms of ownership or distributive income share in excess of 5%, or an interest which has a value of more than \$102,600.00 (60% of the Governor's salary as of 7/1/07). **(Make copies of this form as necessary and attach a separate Disclosure Form A for each individual meeting these requirements)**

FOR INDIVIDUAL (type or print information)

NAME: _____

ADDRESS _____

Type of ownership/distributable income share:

stock _____ sole proprietorship _____ Partnership _____ other: (explain on separate sheet):
% or \$ value of ownership/distributable income share: _____

2. Disclosure of Potential Conflicts of Interest. Check "Yes" or "No" to indicate which, if any, of the following potential conflict of interest relationships apply. If the answer to any question is "Yes", please attach additional pages and describe.

(a) State employment, currently or in the previous 3 years, including contractual employment of services.
Yes ___ No ___

If your answer is yes, please answer each of the following questions.

- Are you currently an officer or employee of either the Capitol Development Board or the Illinois Toll Highway Authority? Yes ___ No ___
- Are you currently appointed to or employed by any agency of the State of Illinois? If you are currently appointed to or employed by any agency of the State of Illinois, and your annual salary exceeds \$102,600.00, (60% of the Governor's salary as of 7/1/07) provide the name the State agency for which you are employed and your annual salary. _____

RETURN WITH BID/OFFER

- 3. If you are currently appointed to or employed by any agency of the State of Illinois, and your annual salary exceeds \$102,600.00, (60% of the Governor's salary as of 7/1/07) are you entitled to receive (i) more than 7 1/2% of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of the salary of the Governor? Yes ___ No ___

- 4. If you are currently appointed to or employed by any agency of the State of Illinois, and your annual salary exceeds \$102,600.00, (60% of the Governor's salary as of 7/1/07) are you and your spouse or minor children entitled to receive (i) more than 15% in aggregate of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of 2 times the salary of the Governor? Yes ___ No ___

(b) State employment of spouse, father, mother, son, or daughter, including contractual employment for services in the previous 2 years.

Yes ___ No ___

If your answer is yes, please answer each of the following questions.

- 1. Is your spouse or any minor children currently an officer or employee of the Capitol Development Board or the Illinois Toll Highway Authority? Yes ___ No ___

- 2. Is your spouse or any minor children currently appointed to or employed by any agency of the State of Illinois? If your spouse or minor children is/are currently appointed to or employed by any agency of the State of Illinois, and his/her annual salary exceeds \$102,600.00, (60% of the Governor's salary as of 7/1/07) provide the name of the spouse and/or minor children, the name of the State agency for which he/she is employed and his/her annual salary. _____

3. If your spouse or any minor children is/are currently appointed to or employed by any agency of the State of Illinois, and his/her annual salary exceeds \$102,600.00, (60% of the salary of the Governor as of 7/1/07) are you entitled to receive (i) more than 7 1/2% of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of the salary of the Governor? Yes ___ No ___

4. If your spouse or any minor children are currently appointed to or employed by any agency of the State of Illinois, and his/her annual salary exceeds \$102,600.00, (60% of the Governor's salary as of 7/1/07) are you and your spouse or any minor children entitled to receive (i) more than 15% in the aggregate of the total distributable income from your firm, partnership, association or corporation, or (ii) an amount in excess of 2 times the salary of the Governor?

Yes ___ No ___

(c) Elective status; the holding of elective office of the State of Illinois, the government of the United States, any unit of local government authorized by the Constitution of the State of Illinois or the statutes of the State of Illinois currently or in the previous 3 years.

Yes ___ No ___

(d) Relationship to anyone holding elective office currently or in the previous 2 years; spouse, father, mother, son, or daughter.

Yes ___ No ___

(e) Appointive office; the holding of any appointive government office of the State of Illinois, the United State of America, or any unit of local government authorized by the Constitution of the State of Illinois or the statutes of the State of Illinois, which office entitles the holder to compensation in excess of the expenses incurred in the discharge of that office currently or in the previous 3 years.

Yes ___ No ___

(f) Relationship to anyone holding appointive office currently or in the previous 2 years; spouse, father, mother, son, or daughter.

Yes ___ No ___

(g) Employment, currently or in the previous 3 years, as or by any registered lobbyist of the State government.

Yes ___ No ___

RETURN WITH BID/OFFER

(h) Relationship to anyone who is or was a registered lobbyist in the previous 2 years; spouse, father, mother, son, or daughter. Yes ___ No ___

(i) Compensated employment, currently or in the previous 3 years, by any registered election or reelection committee registered with the Secretary of State or any county clerk of the State of Illinois, or any political action committee registered with either the Secretary of State or the Federal Board of Elections. Yes ___ No ___

(j) Relationship to anyone; spouse, father, mother, son, or daughter; who was a compensated employee in the last 2 years by any registered election or re-election committee registered with the Secretary of State or any county clerk of the State of Illinois, or any political action committee registered with either the Secretary of State or the Federal Board of Elections. Yes ___ No ___

APPLICABLE STATEMENT

This Disclosure Form A is submitted on behalf of the INDIVIDUAL named on previous page.

Completed by: _____ Date _____
Signature of Individual or Authorized Representative

NOT APPLICABLE STATEMENT

I have determined that no individuals associated with this organization meet the criteria that would require the completion of this Form A.

This Disclosure Form A is submitted on behalf of the CONTRACTOR listed on the previous page.

_____ Date _____
Signature of Authorized Representative

RETURN WITH BID/OFFER

**ILLINOIS DEPARTMENT
OF TRANSPORTATION**

**Form B
Other Contracts &
Procurement Related Information
Disclosure**

Contractor Name		
Legal Address		
City, State, Zip		
Telephone Number	Email Address	Fax Number (if available)

Disclosure of the information contained in this Form is required by the Section 50-35 of the Illinois Procurement Act (30 ILCS 500). This information shall become part of the publicly available contract file. This Form B must be completed for bids in excess of \$10,000, and for all open-ended contracts.

DISCLOSURE OF OTHER CONTRACTS AND PROCUREMENT RELATED INFORMATION

1. Identifying Other Contracts & Procurement Related Information. The BIDDER shall identify whether it has any pending contracts (including leases), bids, proposals, or other ongoing procurement relationship with any other State of Illinois agency: Yes ___ No ___

If **“No” is checked**, the bidder only needs to complete the signature box on the bottom of this page.

2. If “Yes” is checked. Identify each such relationship by showing State of Illinois agency name and other descriptive information such as bid or project number (attach additional pages as necessary). SEE DISCLOSURE FORM INSTRUCTIONS:

THE FOLLOWING STATEMENT MUST BE CHECKED

<input type="checkbox"/>	_____	_____
	Signature of Authorized Representative	Date

RETURN WITH BID

SPECIAL NOTICE TO CONTRACTORS

The following requirements of the Illinois Department of Human Rights' Rules and Regulations are applicable to bidders on all construction contracts advertised by the Illinois Department of Transportation:

CONSTRUCTION EMPLOYEE UTILIZATION PROJECTION

- (a) All bidders on construction contracts shall complete and submit, along with and as part of their bids, a Bidder's Employee Utilization Form (Form BC-1256) setting forth a projection and breakdown of the total workforce intended to be hired and/or allocated to such contract work by the bidder including a projection of minority and female employee utilization in all job classifications on the contract project.
- (b) The Department of Transportation shall review the Employee Utilization Form, and workforce projections contained therein, of the contract awardee to determine if such projections reflect an underutilization of minority persons and/or women in any job classification in accordance with the Equal Employment Opportunity Clause and Section 7.2 of the Illinois Department of Human Rights' Rules and Regulations for Public Contracts adopted as amended on September 17, 1980. If it is determined that the contract awardee's projections reflect an underutilization of minority persons and/or women in any job classification, it shall be advised in writing of the manner in which it is underutilizing and such awardee shall be considered to be in breach of the contract unless, prior to commencement of work on the contract project, it submits revised satisfactory projections or an acceptable written affirmative action plan to correct such underutilization including a specific timetable geared to the completion stages of the contract.
- (c) The Department of Transportation shall provide to the Department of Human Rights a copy of the contract awardee's Employee Utilization Form, a copy of any required written affirmative action plan, and any written correspondence related thereto. The Department of Human Rights may review and revise any action taken by the Department of Transportation with respect to these requirements.



RETURN WITH BID

Contract No. 91368
CHAMPAIGN County
Section 00-00374-01-PV (Champaign)
Project RS-ACHPP-HPP-1805(001)
Route FAP 807 (Curtis Road)
District 5 Construction Funds

PART I. IDENTIFICATION

Dept. Human Rights # _____ Duration of Project: _____
 Name of Bidder: _____

PART II. WORKFORCE PROJECTION

A. The undersigned bidder has analyzed minority group and female populations, unemployment rates and availability of workers for the location in which this contract work is to be performed, and for the locations from which the bidder recruits employees, and hereby submits the following workforce projection including a projection for minority and female employee utilization in all job categories in the workforce to be allocated to this contract:

TOTAL Workforce Projection for Contract												TABLE B CURRENT EMPLOYEES TO BE ASSIGNED TO CONTRACT				
JOB CATEGORIES	TOTAL EMPLOYEES		MINORITY EMPLOYEES						TRAINEES				TOTAL EMPLOYEES		MINORITY EMPLOYEES	
			BLACK		HISPANIC		*OTHER MINOR.		APPREN- TICES		ON THE JOB TRAINEES					
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
OFFICIALS (MANAGERS)																
SUPERVISORS																
FOREMEN																
CLERICAL																
EQUIPMENT OPERATORS																
MECHANICS																
TRUCK DRIVERS																
IRONWORKERS																
CARPENTERS																
CEMENT MASONS																
ELECTRICIANS																
PIPEFITTERS, PLUMBERS																
PAINTERS																
LABORERS, SEMI-SKILLED																
LABORERS, UNSKILLED																
TOTAL																

TABLE C TOTAL Training Projection for Contract								
EMPLOYEES IN TRAINING	TOTAL EMPLOYEES		BLACK		HISPANIC		*OTHER MINOR.	
	M	F	M	F	M	F	M	F
APPRENTICES								
ON THE JOB TRAINEES								

*Other minorities are defined as Asians (A) or Native Americans (N).
 Please specify race of each employee shown in Other Minorities column.

FOR DEPARTMENT USE ONLY

BC 1256 (Rev. 12/11/08)

Note: See instructions on page 2

RETURN WITH BID

**Contract No. 91368
CHAMPAIGN County
Section 00-00374-01-PV (Champaign)
Project RS-ACHPP-HPP-1805(001)
Route FAP 807 (Curtis Road)
District 5 Construction Funds**

PART II. WORKFORCE PROJECTION - continued

- B. Included in "Total Employees" under Table A is the total number of **new hires** that would be employed in the event the undersigned bidder is awarded this contract.

The undersigned bidder projects that: (number) _____ new hires would be recruited from the area in which the contract project is located; and/or (number) _____ new hires would be recruited from the area in which the bidder's principal office or base of operation is located.

- C. Included in "Total Employees" under Table A is a projection of numbers of persons to be employed directly by the undersigned bidder as well as a projection of numbers of persons to be employed by subcontractors.

The undersigned bidder estimates that (number) _____ persons will be directly employed by the prime contractor and that (number) _____ persons will be employed by subcontractors.

PART III. AFFIRMATIVE ACTION PLAN

- A. The undersigned bidder understands and agrees that in the event the foregoing minority and female employee utilization projection included under **PART II** is determined to be an underutilization of minority persons or women in any job category, and in the event that the undersigned bidder is awarded this contract, he/she will, prior to commencement of work, develop and submit a written Affirmative Action Plan including a specific timetable (geared to the completion stages of the contract) whereby deficiencies in minority and/or female employee utilization are corrected. Such Affirmative Action Plan will be subject to approval by the contracting agency and the **Department of Human Rights**.
- B. The undersigned bidder understands and agrees that the minority and female employee utilization projection submitted herein, and the goals and timetable included under an Affirmative Action Plan if required, are deemed to be part of the contract specifications.

Company _____ Telephone Number _____

Address _____

NOTICE REGARDING SIGNATURE

The Bidder's signature on the Proposal Signature Sheet will constitute the signing of this form. The following signature block needs to be completed only if revisions are required.

Signature: _____ Title: _____ Date: _____

- Instructions: All tables must include subcontractor personnel in addition to prime contractor personnel.
- Table A - Include both the number of employees that would be hired to perform the contract work and the total number currently employed (Table B) that will be allocated to contract work, and include all apprentices and on-the-job trainees. The "Total Employees" column should include all employees including all minorities, apprentices and on-the-job trainees to be employed on the contract work.
- Table B - Include all employees currently employed that will be allocated to the contract work including any apprentices and on-the-job trainees currently employed.
- Table C - Indicate the racial breakdown of the total apprentices and on-the-job trainees shown in Table A.

RETURN WITH BID

ADDITIONAL FEDERAL REQUIREMENTS

In addition to the Required Contract Provisions for Federal-Aid Construction Contracts (FHWA 1273), all bidders make the following certifications.

- A. By the execution of this proposal, the signing bidder certifies that the bidding entity has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action, in restraint of free competitive bidding in connection with the submitted bid. This statement made by the undersigned bidder is true and correct under penalty of perjury under the laws of the United States.
- B. CERTIFICATION, EQUAL EMPLOYMENT OPPORTUNITY:
1. Have you participated in any previous contracts or subcontracts subject to the equal opportunity clause. YES _____ NO _____
 2. If answer to #1 is yes, have you filed with the Joint Reporting Committee, the Director of OFCC, any Federal agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements of those organizations? YES _____ NO _____

RETURN WITH BID

**Contract No. 91368
CHAMPAIGN County
Section 00-00374-01-PV (Champaign)
Project RS-ACHPP-HPP-1805(001)
Route FAP 807 (Curtis Road)
District 5 Construction Funds**

PROPOSAL SIGNATURE SHEET

The undersigned bidder hereby makes and submits this bid on the subject Proposal, thereby assuring the Department that all requirements of the Invitation for Bids and rules of the Department have been met, that there is no misunderstanding of the requirements of paragraph 3 of this Proposal, and that the contract will be executed in accordance with the rules of the Department if an award is made on this bid.

(IF AN INDIVIDUAL) Firm Name _____
Signature of Owner _____
Business Address _____

(IF A CO-PARTNERSHIP) Firm Name _____
By _____
Business Address _____
Name and Address of All Members of the Firm: _____

(IF A CORPORATION) Corporate Name _____
By _____
Signature of Authorized Representative _____
Typed or printed name and title of Authorized Representative _____

(IF A JOINT VENTURE, USE THIS SECTION FOR THE MANAGING PARTY AND THE SECOND PARTY SHOULD SIGN BELOW) Attest _____
Signature _____
Business Address _____

(IF A JOINT VENTURE) Corporate Name _____
By _____
Signature of Authorized Representative _____
Typed or printed name and title of Authorized Representative _____

Attest _____
Signature _____
Business Address _____

If more than two parties are in the joint venture, please attach an additional signature sheet.



Return with Bid

Division of Highways
Proposal Bid Bond
(Effective November 1, 1992)

Item No.
Letting Date

KNOW ALL MEN BY THESE PRESENTS, That We

as PRINCIPAL, and

as SURETY, are held jointly, severally and firmly bound unto the STATE OF ILLINOIS in the penal sum of 5 percent of the total bid price, or for the amount specified in Article 102.09 of the "Standard Specifications for Road and Bridge Construction" in effect on the date of invitation for bids, whichever is the lesser sum, well and truly to be paid unto said STATE OF ILLINOIS, for the payment of which we bind ourselves, our heirs, executors, administrators, successors and assigns.

THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH, that whereas, the PRINCIPAL has submitted a bid proposal to the STATE OF ILLINOIS, acting through the Department of Transportation, for the improvement designated by the Transportation Bulletin Item Number and Letting Date indicated above.

NOW, THEREFORE, if the Department shall accept the bid proposal of the PRINCIPAL; and if the PRINCIPAL shall, within the time and as specified in the bidding and contract documents, submit a DBE Utilization Plan that is accepted and approved by the Department; and if, after award by the Department, the PRINCIPAL shall enter into a contract in accordance with the terms of the bidding and contract documents including evidence of the required insurance coverages and providing such bond as specified with good and sufficient surety for the faithful performance of such contract and for the prompt payment of labor and material furnished in the prosecution thereof; or if, in the event of the failure of the PRINCIPAL to make the required DBE submission or to enter into such contract and to give the specified bond, the PRINCIPAL pays to the Department the difference not to exceed the penalty hereof between the amount specified in the bid proposal and such larger amount for which the Department may contract with another party to perform the work covered by said bid proposal, then this obligation shall be null and void, otherwise, it shall remain in full force and effect.

IN THE EVENT the Department determines the PRINCIPAL has failed to comply with any requirement as set forth in the preceding paragraph, then Surety shall pay the penal sum to the Department within fifteen (15) days of written demand therefor. If Surety does not make full payment within such period of time, the Department may bring an action to collect the amount owed. Surety is liable to the Department for all its expenses, including attorney's fees, incurred in any litigation in which it prevails either in whole or in part.

In TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by

their respective officers this day of A.D.,

PRINCIPAL

(Company Name) (Company Name)
By (Signature & Title) By: (Signature of Attorney-in-Fact)

Notary Certification for Principal and Surety

STATE OF ILLINOIS,
County of

I, , a Notary Public in and for said County, do hereby certify that
and
(Insert names of individuals signing on behalf of PRINCIPAL & SURETY)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of PRINCIPAL and SURETY, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instrument as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this day of A.D.
My commission expires
Notary Public

In lieu of completing the above section of the Proposal Bid Form, the Principal may file an Electronic Bid Bond. By signing the proposal and marking the check box next to the Signature and Title line below, the Principal is ensuring the identified electronic bid bond has been executed and the Principal and Surety are firmly bound unto the State of Illinois under the conditions of the bid bond as shown above.

Electronic Bid Bond ID# Company / Bidder Name Signature and Title

PROPOSAL ENVELOPE



PROPOSALS

for construction work advertised for bids by the
Illinois Department of Transportation

Item No.	Item No.	Item No.

Submitted By:

Name:
Address:
Phone No.

Bidders should use an IDOT proposal envelope or affix this form to the front of a 10" x 13" envelope for the submittal of bids. If proposals are mailed, they should be enclosed in a second or outer envelope addressed to:

Engineer of Design and Environment - Room 326
Illinois Department of Transportation
2300 South Dirksen Parkway
Springfield, Illinois 62764

NOTICE

Individual bids, including Bid Bond and/or supplemental information if required, should be securely stapled.

CONTRACTOR OFFICE COPY OF CONTRACT SPECIFICATIONS

NOTICE

None of the following material needs to be returned with the bid package unless the special provisions require documentation and/or other information to be submitted.

**Contract No. 91368
CHAMPAIGN County
Section 00-00374-01-PV (Champaign)
Project RS-ACHPP-HPP-1805(001)
Route FAP 807 (Curtis Road)
District 5 Construction Funds**



Illinois Department of Transportation



NOTICE TO BIDDERS

- 1. TIME AND PLACE OF OPENING BIDS.** Sealed proposals for the improvement described herein will be received by the Department of Transportation at the Harry R. Hanley Building, 2300 South Dirksen Parkway, in Springfield, Illinois until 10:00 o'clock a.m., January 16, 2009. All bids will be gathered, sorted, publicly opened and read in the auditorium at the Department of Transportation's Harry R. Hanley Building shortly after the 10:00 a.m. cut off time.
- 2. DESCRIPTION OF WORK.** The proposed improvement is identified and advertised for bids in the Invitation for Bids as:

**Contract No. 91368
CHAMPAIGN County
Section 00-00374-01-PV (Champaign)
Project RS-ACHPP-HPP-1805(001)
Route FAP 807 (Curtis Road)
District 5 Construction Funds**

Project consists of grading and subgrade modifications for new roadway, PCC pavement over lime modified subgrade, combination curb and gutter, PCC sidewalks and driveways, storm sewers, culverts, pipe underdrains, installation of traffic signals, roadway lighting and landscaping on Curtis Road from Wynstone Drive to Wesley Avenue located in the city of Champaign.

- 3. INSTRUCTIONS TO BIDDERS.** (a) This Notice, the invitation for bids, proposal and letter of award shall, together with all other documents in accordance with Article 101.09 of the Standard Specifications for Road and Bridge Construction, become part of the contract. Bidders are cautioned to read and examine carefully all documents, to make all required inspections, and to inquire or seek explanation of the same prior to submission of a bid.

(b) State law, and, if the work is to be paid wholly or in part with Federal-aid funds, Federal law requires the bidder to make various certifications as a part of the proposal and contract. By execution and submission of the proposal, the bidder makes the certification contained therein. A false or fraudulent certification shall, in addition to all other remedies provided by law, be a breach of contract and may result in termination of the contract.
- 4. AWARD CRITERIA AND REJECTION OF BIDS.** This contract will be awarded to the lowest responsive and responsible bidder considering conformity with the terms and conditions established by the Department in the rules, Invitation for Bids and contract documents. The issuance of plans and proposal forms for bidding based upon a prequalification rating shall not be the sole determinant of responsibility. The Department reserves the right to determine responsibility at the time of award, to reject any or all proposals, to readvertise the proposed improvement, and to waive technicalities.

By Order of the
Illinois Department of Transportation

Milton R. Sees, Secretary

BD 351 (Rev. 01/2003)

INDEX
FOR
SUPPLEMENTAL SPECIFICATIONS
AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2009

This index contains a listing of SUPPLEMENTAL SPECIFICATIONS and frequently used RECURRING SPECIAL PROVISIONS.

ERRATA Standard Specifications for Road and Bridge Construction (Adopted 1-1-07) (Revised 1-1-09)

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LR SD 12		<input type="checkbox"/> Slab Movement Detection Device	Nov. 11, 1984	Jan. 1, 2007
LR SD 13		<input type="checkbox"/> Required Cold Milled Surface Texture	Nov. 1, 1987	Jan. 1, 2007
LR 102		<input type="checkbox"/> Protests on Local Lettings	Jan. 1, 2007	
LR 105	78	<input checked="" type="checkbox"/> Cooperation with Utilities	Jan. 1, 1999	Jan. 1, 2007
LR 107-2		<input type="checkbox"/> Railroad Protective Liability Insurance for Local Lettings	Mar. 1, 2005	Jan. 1, 2006
LR 107-3		<input type="checkbox"/> Disadvantaged Business Enterprise Participation	Jan. 1, 2007	Nov. 1, 2008
LR 107-4	81	<input checked="" type="checkbox"/> Insurance	Feb. 1, 2007	Aug. 1, 2007
LR 107-5		<input type="checkbox"/> Substance Abuse Prevention Program	Jan. 1, 2008	Jan. 8, 2008
LR 108		<input type="checkbox"/> Combination Bids	Jan. 1, 1994	Mar. 1, 2005
LR 212		<input type="checkbox"/> Shaping Roadway	Aug. 1, 1969	Jan. 1, 2002
LR 355-1		<input type="checkbox"/> Asphalt Stabilized Base Course, Road Mix or Traveling Plant Mix	Oct. 1, 1973	Jan. 1, 2007
LR 355-2		<input type="checkbox"/> Asphalt Stabilized Base Course, Plant Mix	Feb. 2, 1963	Jan. 1, 2007
LR 400-1		<input type="checkbox"/> Bituminous Treated Earth Surface	Jan. 1, 2008	
LR 400-2		<input type="checkbox"/> Bituminous Surface Mixture (Class B)	Jan. 1, 2008	
LR 400-3		<input type="checkbox"/> Pavement Rehabilitation by the Heat-Scarify-Overlay Method	Jan. 1, 2008	
LR 402		<input type="checkbox"/> Salt Stabilized Surface Course	Feb. 20, 1963	Jan. 1, 2007
LR 403-2		<input type="checkbox"/> Bituminous Hot Mix Sand Seal Coat	Aug. 1, 1969	Jan. 1, 2007
LR 406		<input type="checkbox"/> Filling HMA Core Holes with Non-shrink Grout	Jan. 1, 2008	
LR 420		<input type="checkbox"/> PCC Pavement (Special)	May 12, 1964	Jan. 2, 2007
LR 442		<input type="checkbox"/> Bituminous Patching Mixtures for Maintenance Use	Jan. 1, 2004	Jun. 1, 2007
LR 451		<input type="checkbox"/> Crack Filling Bituminous Pavement with Fiber-Asphalt	Oct. 1, 1991	Jan. 1, 2007
LR 503-1		<input type="checkbox"/> Furnishing Class SI Concrete	Oct. 1, 1973	Jan. 1, 2002
LR 503-2		<input type="checkbox"/> Furnishing Class SI Concrete (Short Load)	Jan. 1, 1989	Jan. 1, 2002
LR 542		<input type="checkbox"/> Pipe Culverts, Type _____ (Furnished)	Sep. 1, 1964	Jan. 1, 2007
LR 663		<input type="checkbox"/> Calcium Chloride Applied	Jun. 1, 1958	Jan. 1, 2007
LR 702	82	<input checked="" type="checkbox"/> Construction and Maintenance Signs	Jan. 1, 2004	Jun. 1, 2007
LR 1004		<input type="checkbox"/> Coarse Aggregate for Bituminous Surface Treatment	Jan. 1, 2002	Jan. 1, 2007
LR 1013		<input type="checkbox"/> Rock Salt (Sodium Chloride)	Aug. 1, 1969	Jan. 1, 2002
LR 1030		<input type="checkbox"/> Growth Curve	Mar. 1, 2008	
LR 1032-1		<input type="checkbox"/> Penetrating Emulsions	Jan. 1, 2007	Feb. 1, 2007
LR 1032-2		<input type="checkbox"/> Multigrade Cold Mix Asphalt	Jan. 1, 2007	Feb. 1, 2007
LR 1102		<input type="checkbox"/> Road Mix or Traveling Plan Mix Equipment	Jan. 1, 2007	

BDE SPECIAL PROVISIONS
For the January 16 and March 6, 2009 Lettings

The following special provisions indicated by an "x" are applicable to this contract. An * indicates a new or revised special provision for the letting.

File Name	Pg#		Special Provision Title	Effective	Revised
80099			Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2007
* 80186			Alkali-Silica Reaction for Cast-in-Place Concrete	Aug. 1, 2007	Jan. 1, 2009
* 80213	83	X	Alkali-Silica Reaction for Precast and Precast Prestressed Concrete	Jan. 1, 2009	
80207	86	X	Approval of Proposed Borrow Areas, Use Areas, and/or Waste Areas Inside Illinois State Borders	Nov. 1, 2008	
80192	87	X	Automated Flagger Assistance Device	Jan. 1, 2008	
80173	89	X	Bituminous Materials Cost Adjustments	Nov. 2, 2006	Jan. 2, 2007
50261			Building Removal-Case I (Non-Friable and Friable Asbestos)	Sept. 1, 1990	Jan. 1, 2007
50481			Building Removal-Case II (Non-Friable Asbestos)	Sept. 1, 1990	Jan. 1, 2007
50491			Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	Jan. 1, 2007
50531			Building Removal-Case IV (No Asbestos)	Sept. 1, 1990	Jan. 1, 2007
80166	92	X	Cement	Jan. 1, 2007	Nov. 1, 2007
80198			Completion Date (via calendar days)	April 1, 2008	
80199			Completion Date (via calendar days) Plus Working Days	April 1, 2008	
80193			Concrete Barrier	Jan. 1, 2008	
* 80214	95	X	Concrete Gutter, Type A	Jan. 1, 2009	
* 80215			Concrete Joint Sealer	Jan. 1, 2009	
80177			Digital Terrain Modeling for Earthwork Calculations	April 1, 2007	
80029	96	X	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	Nov. 1, 2008
80178	104	X	Dowel Bars	April 1, 2007	Jan. 1, 2008
80179	105	X	Engineer's Field Office Type A	April 1, 2007	Aug. 1, 2008
80205			Engineer's Field Office Type B	Aug. 1, 2008	
80175			Epoxy Pavement Markings	Jan. 1, 2007	
80189	108	X	Equipment Rental Rates	Aug. 2, 2007	Jan. 2, 2008
80169			High Tension Cable Median Barrier	Jan. 1, 2007	
80194			HMA - Hauling on Partially Completed Full-Depth Pavement	Jan. 1, 2008	
80181	110	X	Hot-Mix Asphalt - Field Voids in the Mineral Aggregate	April 1, 2007	April 1, 2008
80201	112	X	Hot-Mix Asphalt - Plant Test Frequency	April 1, 2008	
80202	114	X	Hot-Mix Asphalt - Transportation	April 1, 2008	
80136			Hot-Mix Asphalt Mixture IL-4.75	Nov. 1, 2004	Jan. 1, 2008
80195	115	X	Hot-Mix Asphalt Mixture IL-9.5L	Jan. 1, 2008	
80109			Impact Attenuators	Nov. 1, 2003	Nov. 1, 2008
80110			Impact Attenuators, Temporary	Nov. 1, 2003	Jan. 1, 2007
* 80196	116	X	Mast Arm Assembly and Pole	Jan. 1, 2008	Jan. 1, 2009
* 80045			Material Transfer Device	June 15, 1999	Jan. 1, 2009
80203	118	X	Metal Hardware Cast into Concrete (NOTE: This special provision was previously named "Steel Inserts and Brackets Cast into Concrete".)	April 1, 2008	Nov. 1, 2008
80165			Moisture Cured Urethane Paint System	Nov. 1, 2006	Jan. 1, 2007
80082			Multilane Pavement Patching	Nov. 1, 2002	
80180	119	X	National Pollutant Discharge Elimination System / Erosion and Sediment Control Deficiency Deduction (NOTE: This special provision was previously named "Erosion and Sediment Control Deficiency Deduction".)	April 1, 2007	Nov. 1, 2008
80208			Nighttime Work Zone Lighting	Nov. 1, 2008	
80129	120	X	Notched Wedge Longitudinal Joint	July 1, 2004	Jan. 1, 2007
80182			Notification of Reduced Width	April 1, 2007	
80069			Organic Zinc-Rich Paint System	Nov. 1, 2001	Jan. 1, 2008
* 80216			Partial Exit Ramp Closure for Freeway/Expressway	Jan. 1, 2009	
80022	122	X	Payments to Subcontractors	June 1, 2000	Jan. 1, 2006
80209	124	X	Personal Protective Equipment	Nov. 1, 2008	
80134			Plastic Blockouts for Guardrail	Nov. 1, 2004	Jan. 1, 2007
* 80119	125	X	Polyurea Pavement Marking	April 1, 2004	Jan. 1, 2009

<u>File Name</u>	<u>Pg#</u>		<u>Special Provision Title</u>	<u>Effective</u>	<u>Revised</u>
80210			Portland Cement Concrete Inlay or Overlay	Nov. 1, 2008	
80170	132	X	Portland Cement Concrete Plants	Jan. 1, 2007	
* 80217			Post Clips for Extruded Aluminum Signs	Jan. 1, 2009	
80171	134	X	Precast Handling Holes	Jan. 1, 2007	
* 80218			Preventive Maintenance – Bituminous Surface Treatment	Jan. 1, 2009	
* 80219			Preventive Maintenance – Cape Seal	Jan. 1, 2009	
* 80220			Preventive Maintenance – Micro-Surfacing	Jan. 1, 2009	
* 80221			Preventive Maintenance – Slurry Seal	Jan. 1, 2009	
80211			Prismatic Curb Reflectors	Nov. 1, 2008	
80015			Public Convenience and Safety	Jan. 1, 2000	
34261			Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2006
80157			Railroad Protective Liability Insurance (5 and 10)	Jan. 1, 2006	
* 80223			Ramp Closure for Freeway/Expressway	Jan. 1, 2009	
80172	136	X	Reclaimed Asphalt Pavement (RAP)	Jan. 1, 2007	Aug. 1, 2007
80183	142	X	Reflective Sheeting on Channelizing Devices	April 1, 2007	Nov. 1, 2008
80151	143	X	Reinforcement Bars	Nov. 1, 2005	Jan. 2, 2008
80206	145	X	Reinforcement Bars – Storage and Protection	Aug. 1, 2008	
* 80224			Restoring Bridge Approach Pavements Using High-Density Foam	Jan. 1, 2009	
80184	146	X	Retroreflective Sheeting, Nonreflective Sheeting, and Translucent Overlay Film for Highway Signs	April 1, 2007	
* 80131	152	X	Seeding	July 1, 2004	Jan. 1, 2009
* 80152			Self-Consolidating Concrete for Cast-In-Place Construction	Nov. 1, 2005	Jan. 1, 2009
80132	154	X	Self-Consolidating Concrete for Precast Products	July 1, 2004	Jan. 1, 2007
80212	156	X	Sign Panels and Sign Panel Overlays	Nov. 1, 2008	
80197	157	X	Silt Filter Fence	Jan. 1, 2008	
80127	158	X	Steel Cost Adjustment	April 2, 2004	April 1, 2007
80153			Steel Plate Beam Guardrail	Nov. 1, 2005	Aug. 1, 2007
80191	162	X	Stone Gradation Testing	Nov. 1, 2007	
80143	163	X	Subcontractor Mobilization Payments	April 2, 2005	
80075			Surface Testing of Pavements	April 1, 2002	Jan. 1, 2007
80087	164	X	Temporary Erosion Control	Nov. 1, 2002	Jan. 1, 2008
* 80225			Temporary Raised Pavement Marker	Jan. 1, 2009	
80176	165	X	Thermoplastic Pavement Markings	Jan. 1, 2007	
20338	167	X	Training Special Provisions	Oct. 15, 1975	
80185			Type ZZ Retroreflective Sheeting, Nonreflective Sheeting, and Translucent Overlay Film for Highway Signs	April 1, 2007	
80149			Variable Spaced Tining	Aug. 1, 2005	Jan. 1, 2007
80071			Working Days	Jan. 1, 2002	
80204			Woven Wire Fence	April 1, 2008	

The following special provisions are in the 2009 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>
80108	Asbestos Bearing Pad Removal	Check Sheet #32	Nov. 1, 2003	
72541	Asbestos Waterproofing Membrane and Asbestos Hot-Mix Asphalt Surface Removal	Check Sheet #33	June 1, 1989	Jan. 2, 2007
80167	Electrical Service Installation – Traffic Signals	Section 805	Jan. 1, 2007	
80164	Removal and Disposal of Regulated Substances	Section 669	Aug. 1, 2006	Jan. 1, 2007
80161	Traffic Signal Grounding	Sections 873 and 1076	April 1, 2006	Jan. 1, 2007
80162	Uninterruptable Power Supply (UPS)	Sections 801, 862 and 1074	April 1, 2006	Jan. 1, 2007
80163	Water Blaster with Vacuum Recovery	Articles 783.02 and 1101.12	April 1, 2006	Jan. 1, 2007

The following special provisions require additional information from the designer. The additional information needs to be included in a separate document attached to this check sheet. The Project Development and Implementation section will then include the information in the applicable special provision. The Special Provisions are:

Building Removal-Case I	Completion Date	Railroad Protective Liability Insurance
Building Removal-Case II	Completion Date Plus Working Days	Training Special Provisions
Building Removal-Case III	DBE Participation	Working Days
Building Removal-Case IV	Material Transfer Device	

TECHNICAL SPECIFICATIONS

The following technical specifications supplement the "Standard Specifications for Road and Bridge Construction" adopted January 1, 2007, the latest edition of the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways", in effect on the date of invitation for bids, the "Manual of Test Procedures for Materials", in effect on the date of invitation for bids, the "Supplemental Specifications and Recurring Special Provisions" indicated on the Check Sheet included herein, the "Bureau of Design & Environment Special Provisions (BDE)" included herein, the latest edition of the "Standard Specifications for Water and Sewer Main Construction in Illinois", which apply to and govern the construction of Curtis Road, Section 00-00374-01-PV, in the City of Champaign, and Village of Savoy, Champaign County, and in case of conflict with any part or parts of said Specifications, the said Special Provisions shall take precedence and shall govern.

LOCATION AND DESCRIPTION OF WORK

The proposed roadway improvements are located on Curtis Road, Mattis Avenue and Prospect Avenue in the City of Champaign, and Village of Savoy, in Champaign County, Illinois. The proposed roadway improvements on Curtis Road commence near the intersection of Curtis Road and Wynstone Drive in Champaign and proceed in an easterly direction a distance of 9,165 feet to a terminus approximately 618 feet east of the intersection of Curtis Road and Wesley Avenue in Savoy. The proposed roadway improvements on Mattis Avenue commence approximately 880 feet south of the Curtis Road and Mattis Avenue intersection and proceed in a northerly direction a distance of 1,625 feet to a terminus approximately 811 feet north of the intersection of Curtis Road and Mattis Avenue. The proposed roadway improvements on Prospect Avenue commence at the Curtis Road and Prospect Avenue intersection and proceed in a northerly direction a distance of 872 feet to the terminus.

The work under this contract shall consist of the construction of:

- Grading and subgrade modifications for new roadway construction;
- Portland Cement concrete pavement over lime modified sub-grade for Curtis Road and Mattis Avenue and a Portland Cement concrete pavement over an aggregate base course for Prospect Avenue;
- asphalt shoulders with earth ditches or concrete curbs and gutters;
- storm sewers, culverts, pipe underdrains and associated storm drainage structures;
- Portland Cement concrete sidewalks and driveways;
- installation of traffic signal systems at the intersections of Curtis Road and Mattis Avenue and Curtis Road and Prospect Avenue;
- roadway lighting;
- pavement markings;
- various removals, excavations, embankment construction, landscaping and other work necessary to complete the construction as shown in the plans and required by the specifications.

The work shall include all labor, materials, tools and equipment necessary for the proper execution and completion of the work as shown in the plans and as specified. It shall also include all work not specifically mentioned but which is reasonably and properly inferable and necessary for the completion of the work.

PROJECT COMPLETION DATE/TIME OF THE ESSENCE

Time is an essential element of the Contract and the Engineer will be monitoring the Contractor's progress toward completion.

The assessment of liquidated damages in accordance with Article 108.09 of the Standard Specifications shall be defined with respect to the following project completion dates and not the number of available working days.

Project Completion Date - Stages I Through Stage III

The construction work for Stages I through III as shown on the “Stage Construction and Maintenance of Traffic Plans” for the Curtis Road and Prospect Avenue improvements shall commence on **Monday, March 16, 2009** and shall be completed by midnight **Friday, December 18, 2009**. All roads must be open to traffic during the winter shut down period. If, in the opinion of the Engineer, all of the work or any portion thereof is in an acceptable condition for travel prior to the completion date, the roadway shall be opened to traffic as may be directed by the Engineer. Opening of the roadway to traffic shall be in accordance with Article 107.29 of the Standard Specifications. Any additional costs, including traffic control, associated with completing the construction work while the road is opened to traffic shall be reflected in the Contractor’s unit bid prices. The full amount of liquidated damages specified in Article 108.09 of the Standard Specifications shall be assessed per calendar day in accordance with Article 108.09 should the Contractor fail to complete the specified work on or before midnight Friday, December 18, 2009.

Project Completion Date - Stages IV Through Stage VI

The remainder of the construction work for Stages IV through VI as shown on the “Stage Construction and Maintenance of Traffic Plans” for the Curtis Road and Mattis Avenue improvements shall be completed by midnight **Friday, November 19, 2010**. If, in the opinion of the Engineer, all of the work or any portion thereof is in an acceptable condition for travel prior to the completion date, the roadway shall be opened to traffic as may be directed by the Engineer. Opening of the roadway to traffic shall be in accordance with Article 107.29 of the Standard Specifications. Any additional costs, including traffic control, associated with completing the construction work while the road is opened to traffic shall be reflected in the Contractor’s unit bid prices. The full amount of liquidated damages specified in Article 108.09 of the Standard Specifications shall be assessed per calendar day in accordance with Article 108.09 should the Contractor fail to complete the specified work on or before midnight Friday, November 19, 2010.

PUBLIC INFORMATION MEETING CONDUCTED BY THE CONTRACTOR

A public information meeting will be held for this project prior to the start of construction of this project. The Contractor shall schedule the meeting and advertise its date, time, and location in all local newspapers and media outlets including the City of Champaign and Village of Savoy. The Contractor and the implementing agencies representatives shall conduct the meeting jointly. The Contractor shall have a representative at the meeting to answer questions concerning scheduling, the nature of work to be performed, and any other issues that may arise. The Contractor shall secure the meeting facility and pay for any facility rental fees and provide appropriate liability insurance. In addition to conducting the public information meeting, the Contractor shall also notify all residents and property owners adjacent to the project limits of the meeting. A mailing list will be provided to the Contractor by the Engineer. The cost for conducting this meeting and contacting residents and property owners shall not be paid for separately, but shall be considered included with the various traffic control items contained herein.

COMMITMENTS

There are two commitments made for this project as described in the ECAD Record for the Phase I Report.

1. Tree replacement has been provided for as required by the Illinois Department of Transportation's tree replacement policy. One tree will be planted for each tree that is being removed.
2. A wetland compensation plan has been developed and is included in the plans and specifications.

SEQUENCE OF CONSTRUCTION

See the "Stage Construction and Maintenance of Traffic" plan sheets in the plans for the suggested sequence of construction. Due to the magnitude of the project and the number of utility facilities to be adjusted or relocated it may be necessary for the Contractor to sequence the work to allow the utility companies time to complete their work. The Contractor should plan the construction sequence so that no work will be started that could not be completed prior to any winter shut down period. Open holes, trenches or drop offs adjacent to traffic lanes, entrances or sidewalks will not be permitted while the work is suspended.

70103700 TRAFFIC CONTROL COMPLETE

Description

This work shall consist of providing the necessary traffic control personnel and devices and the installation, maintenance, relocation and removal of these devices during construction of the improvement. The implementing agencies will be responsible for notifying the public, the United States Postal Service, Mass Transit District and the emergency service agencies for road closures and changes in the traffic maintenance plans.

Traffic Control Plan

Traffic control shall be in accordance with the applicable sections of the Standard Specifications and Supplemental Specifications, the applicable guidelines contained in the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways", these Special Provisions, and the special details and Highway Standards contained herein and in the plans.

Special attention is called to Articles 107.09, 107.14, 107.15, 107.25, and Sections 701 and 703 of the Standard Specifications, the following Highway Standards, listed Supplemental Specifications and Recurring Special Provisions and Special Plan Details and Notations.

Highway Standards

701006, 701101, 701301, 701311, 701501, 701502, 701601, 701701, 701801, 701901,
BLR 21-7, BLR 22-5

Plan Details

Stage Construction and Maintenance of Traffic Plan

Special Provisions

Check Sheet # 25	Night Time Inspection of Roadway Lighting
LRS 3	Work Zone Traffic Control
LRS 4	Flaggers in Work Zones
BDE 80183	Reflective Sheeting on Channelizing Devices
BDE 80192	Automated Flagger Assistance Device
LR 702	Construction and Maintenance Signs

Maintenance of Traffic

Road closures and the conveyance of thru and local traffic within and around the construction zone shall be provided for in accordance with the Plan Details noted above and the use of the above referenced Highway Standards as directed by the Engineer. It is the implementing agencies intention to provide at least one entrance/exit point to the Liberty on the Lakes subdivision at all times and that the intersection of Curtis Road and Wesley Avenue be kept open at all times. With the approval of the Engineer, the Contractor may modify the suggested construction sequence and attendant traffic control procedures as shown. The Contractor shall submit his proposed sequence of operations and any necessary revisions to attendant traffic control to the Engineer for approval before actual construction operations begin.

Public Road Approaches and Property Entrances

Public road approaches and property entrances shall be kept open to local traffic in half-widths or temporary access shall be provided by the Contractor as approved by the Engineer except wherein the plans the approach or entrance is noted to be closed. The Contractor shall provide and maintain access to commercial and private properties abutting the roadway being improved in accordance with Article 107.09 of the Standard Specifications. Access to commercial property shall, at no time, be shut off completely except wherein the plans the entrance is noted to be closed. At no time shall a

private entrance be closed for an extended period of time. An estimated quantity of Aggregate for Temporary Access has been included in the plans for use in the conveyance of local traffic and the provision of temporary access.

Concurrent construction of driveway entrances or side roads will be required along with mainline pavement construction to the limits of each stage of the project. This is necessary in order to accommodate vehicle turning movements in and out of the driveways or side roads after completion of their construction thus eliminating the need for closure of these facilities twice; i.e., once for mainline pavement construction and again for the entrance or side road construction.

The driveway pavement and sidewalk at Sta. 134+89.7 Lt. shall be constructed in half widths using high-early strength concrete as directed by the Engineer. The high-early strength concrete shall meet the requirements of Article 1020.04 of the Standard Specifications for Class PP concrete. The cost of this work including the high-early strength concrete will not be paid for separately, but shall be considered included in the contract unit prices for P.C. Concrete Pavement 8" and the P.C. Concrete Sidewalk 6".

Removing and Resetting Traffic Signs

This work shall consist of the removal, relocation, and resetting of traffic signs which interfere with construction operations. This work shall also include the removal, relocation, and resetting of existing wood signs, delineators and other miscellaneous signs which interfere with construction operations. This work shall be performed in accordance with the applicable portions of Article 107.25 of the Standard Specifications and as directed by the Engineer. The contractor shall remove, temporarily relocate and/or permanently reset existing signs which interfere with the construction operations. This work will not be paid for separately but shall be considered as included in the Traffic Control Complete pay item. The Engineer will determine which signs will be removed, temporarily relocated and permanently reset. Before the completion of each construction stage the implementing agencies will re-sign the traffic and street name signs in accordance with the signing plan.

Traffic Control Surveillance

Traffic control surveillance will be required, but will not be paid for separately on this project. The special provision check sheet LRS 3 "Construction Zone Traffic Control" will apply for the inspection of traffic control devices on this project.

Quality of Traffic Control Devices

Traffic Control Devices include signs and their supports, signals, pavement markings, barricades with sand bags, channelizing devices, warning lights, arrow boards, flaggers, or any device used for the purpose of regulating, detouring, warning or guiding traffic through or around the construction zone.

Only signs, barricades, vertical panels, drums, and cones that meet the requirements of the Department's "Quality Standard for Work Zone Traffic Control Devices 2004" shall be used on this project. Copies of this publication are available from IDOT's "Doing Business" website. At the

time of the initial setup or at the time of major stage changes, 100% of each type of device (cones, drums, barricades, vertical panels or signs) shall be acceptable as defined by the referenced publication. Throughout the duration of the project, the percentage of acceptable devices may decrease to 75 percent only as a result of damage and/or deterioration during the course of the work. Work shall not begin until a determination has been made that the traffic control devices meet the quality required in this standard. The Contractor is required to conduct routine inspections of the work site at a frequency that will allow for the prompt replacement of any traffic control device that has become displaced or damaged to the extent that it no longer conforms to the shape, dimensions, color and operational requirements of the MUTCD and the Traffic Control Standards, or that it no longer presents a neat appearance to motorists. A sufficient quantity of replacement devices, based on vulnerability to damage, shall be readily available to meet this requirement.

Changeable Message Signs

Changeable message signs shall be furnished, placed and maintained in accordance with the “Stage Construction and Maintenance of Traffic Plans” and Section 701 of the Standard Specifications.

Placement of Traffic Control Signs and Devices

The Contractor shall be responsible for the proper location, installation, and arrangement of all traffic advance warning signs during construction operations in order to keep lane assignment consistent with barricade placement at all times. The Contractor shall immediately remove, cover, or turn from the view of the motorists all traffic control devices which are inconsistent with detour or lane alignment patterns and conflicting conditions during the transition from one construction stage to another. When the Contractor elects to cover conflicting or inappropriate signing materials used, he/she shall totally block out reflectivity of the sign and shall cover the entire sign. The method used for covering the signing shall meet the approval of the Engineer.

The Contractor shall coordinate all traffic control work on this project with adjoining or overlapping projects, including barricade placement necessary to provide a uniform traffic detour pattern. When directed by the Engineer, the Contractor shall remove all traffic control devices which were furnished and installed and maintained by him/her under this contract, and such devices shall remain the property of the Contractor. All traffic control devices shall remain in place until specific authorization for relocation or removal is received from the Engineer.

The Contractor shall ensure that all traffic control devices installed by him/her are operational, functional, and effective 24 hours a day, including Sundays and holidays.

Solar Powered Arrow Boards

Arrow boards shall be used as required by the Standards and as directed by the Engineer. All arrow boards to be used on this project shall be solar powered. Any additional cost in meeting this requirement shall be considered as included in the cost of TRAFFIC CONTROL COMPLETE.

Signs

Construction signs referring to daytime lane closures during working hours shall be removed, covered or turned away from the view of motorists during non-working hours.

Flashing lights shall be used on each approach in advance of the work area, and in accordance with the details shown on the Plans and Standard Drawings.

All provisions of Article 107.25 of the Standard Specifications shall apply except the third paragraph shall be revised to read: “The Contractor shall maintain, furnish, and replace at his/her own expense, any traffic sign or post which has been damaged or lost by the Contractor or a third party.”

Prospect Point Apartment Signs

Special signs shall be provided to direct motorist to the temporary entrance to the Prospect Point Apartments on Wesley Avenue as shown on the detail on the Stage Construction and Maintenance of Traffic Plans. The signs shall be white corrugated plastic a minimum of 3mm thick with black lettering and shall be mounted on plywood 1/2” thick for support. The signs shall then be attached to wood post as directed by the Engineer at the locations shown on the plans. The signs shall be the type manufactured by Fast Signs or approved equal. After the completion of Stage 1 the signs shall be removed and disposed of by the Contractor. This work, including furnishing, placing and maintaining the signs, and subsequent disposal of the signs will not be paid for separately, but shall be considered included in the contract lump sum price for TRAFFIC CONTROL COMPLETE.

Placement and Removal of Signs and Barricades

Placement of all signs and barricades shall proceed in the direction of flow of traffic. Removal of all signs and barricades shall start at the end of the construction areas and proceed toward oncoming traffic unless otherwise directed by the Engineer.

Pedestrian Sidewalk Control

The Contractor shall install, maintain, and remove necessary signs and barricades needed to direct pedestrians to usable sidewalks and walkways during the construction, and as directed by the Engineer.

At each point of closure, a sufficient number of barricades shall be used to completely close the sidewalk to pedestrian movement. Where construction activities involve sidewalks on both sides of the street, the work shall be staged so that both are not out of service at the same time.

Temporary Sidewalks

It is the implementing agency’s intention to maintain pedestrian access through the project site during construction of the improvement. The Contractor may restrict pedestrian access to the project site during working hours by utilizing Highway Standard 701801. During non-working hours the Contractor shall allow for pedestrian access through the project site by constructing temporary sidewalks at locations where existing sidewalks have been removed or as directed by the Engineer. The temporary sidewalk shall consist of coarse aggregate gradation CA 6 placed at a compacted depth of 5 inches at locations and to the satisfaction of the Engineer. This work, including furnishing and placing the materials, as well as compaction, removal, and subsequent disposal of the material in accordance with Article 202.03 of the Standard Specifications, will not be paid for separately, but shall be considered included in the contract lump sum price for TRAFFIC CONTROL COMPLETE.

Public Safety and Convenience

The Contractor shall provide a telephone number where a responsible individual can be contacted on a 24-hour-a-day basis to receive notification of any deficiencies regarding traffic control and protection. The Contractor shall dispatch personnel, materials and equipment to correct any such deficiencies. The Contractor shall respond to any call from the Engineer or government agencies concerning any request for improving or correcting traffic control devices and begin making the requested repair within two hours from the time of notification.

When traveling in lanes open to public traffic, the Contractor's vehicles shall always move with and not against or across the flow of traffic. These vehicles shall enter or leave work areas in a manner which will not be hazardous to, or interfere with traffic and shall not park or stop except within areas designated by the Engineer.

Personal vehicles will not be allowed to park within the right-of-way. The Contractor shall provide for off-site parking of his/her personal vehicles.

The Contractor shall maintain entrances and side roads along the proposed improvement. Interference with traffic movements and inconvenience to owners of abutting property and the public shall be kept to a minimum. Any delays or inconveniences caused to the Contractor by complying with these requirements shall be considered as included in the cost of the contract, and no additional compensation will be allowed.

Compliance with Parking Regulations

The work to be performed under this contract and within the City of Champaign jurisdiction is exempted by the Municipal Code of the City of Champaign, Section 33-18, from certain regulations contained in Chapter 33 of the Municipal Code. The language of this section says:

“The provisions of this Chapter regulating the movement and parking of vehicles shall not apply to equipment or vehicles while actively engaged in installing, repairing or otherwise improving streets or street pavements.”

This is interpreted to mean that while actual construction work is in progress, vehicles necessary for the production of the work may temporarily park or stop in locations in the immediate vicinity of the work site. Vehicles and equipment include those vehicles and equipment owned or leased by the Contractor and his/her employees which are actively used in the construction activity. This exemption does not apply to any vehicle or equipment which is not essential to the actual progress of the construction. An example of a vehicle not essential to the actual progress of the construction is a vehicle owned by the employee of the Contractor used to transport the employee to the job site or his/her home but not used to carry tools actively used on the project site. These vehicles must be parked according to posted regulations and are subject to any meter fees.

Construction Staging Requirements

Lane Closures and the conveyance of local traffic within and around the construction zone shall be

provided for in accordance with the above referenced Highway Standards and as directed by the Engineer. With the approval of the Engineer, the Contractor may make modifications to the proposed traffic control plans. The Contractor shall submit his/her proposed sequence of operations, and any necessary revisions to the attendant traffic control plan, to the Engineer for approval before actual construction operations begin.

All traffic control devices and barricades throughout the project shall remain in place until the entire project is substantially complete, or as otherwise directed by the Engineer.

All proposed traffic signal heads shall be bagged until the scheduled traffic signal turn on.

Brooming Roadway

All traffic lanes which are closed to through traffic during construction shall be broomed or swept free of all loose gravel or construction debris before the traffic lane is reopened to traffic. All roadway surface conditions shall be approved by the Engineer before they are opened to traffic. This work will not be paid for separately, but shall be considered included in the contract lump sum price for TRAFFIC CONTROL COMPLETE.

Measurement and Payment

All work prescribed and referenced herein shall be measured for payment at the contract lump sum price for TRAFFIC CONTROL COMPLETE. This price shall be considered payment in full for all labor, materials, transportation, handling and incidental work necessary to furnish, install, relocate, maintain and remove all traffic control devices as required by the traffic control plan, and as approved by the Engineer, for the duration of the contract. No separate payment will be made for complying with the provisions of Standard 701501, 701502, 701601, 701701, 701801, 701901, BLR 21 AND 22. No separate payment will be made for furnishing, placing, compacting, maintaining, removing, and disposing of coarse aggregate for temporary sidewalks.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

This work shall be done in accordance with the “National Pollutant Discharge Elimination System Permit” (NPDES) requirements. The project is covered by the implementing agency’s MS4 permit number ILR400313. The Contractor will be required to comply with all terms of the permit. As a part of the requirements the Contractor will be required to fill out the “Contractor Certification Statement”, on form number BDE 2342 and submit it to the Engineer at the pre-construction conference. A copy of the form is attached.



**Illinois Department
of Transportation**

Storm Water Pollution Prevention Plan

Route Curtis Road – FAP Route 807
 Section 00-00374-01-PV
 County Champaign

Marked Rt. No
 Project No. HPP-1805 (001)
 Contract No. 91368

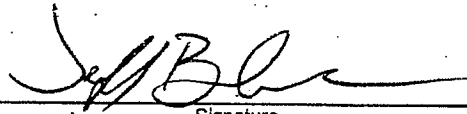
This plan has been prepared to comply with the provisions of the NPDES Permit Number ILR10, issued by the Illinois Environmental Protection Agency on May 30, 2003 for storm water discharges from Construction Site Activities. This plan has also been prepared to comply with the provisions of NPDES Permit Number ILR40 for discharges from small municipal separate storm sewer systems if checked below.

NPDES permits associated with this project:

- ILR10 Permit No. (if applicable): _____
- ILR40 Permit No. (if applicable): ILR40-0313

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jeff Blue
 Print Name
Champaign County Engineer
 Title
Champaign County Highway Dept.
 Agency


 Signature
5/27/08
 Date

I. Site Description:

A. The following is a description of the project location:

Curtis Road from Wynstone Drive in Champaign to Wesley Ave. in Savoy.

B. The following is a description of the construction activity which is the subject of this plan:

Full reconstruction of approximately 9,165 feet of Curtis Road, approximately 2,580 feet of Mattis Avenue and approximately 872 feet of Prospect Avenue including various removals, excavations, embankment construction, construction of storm sewers, ditches, culverts, grading and subgrade work for roadway construction, Portland cement concrete pavement, asphalt shoulders, curb and gutters, sidewalks, traffic signals and roadway lighting.

C. The following is a description of the intended sequence of major activities which will disturb soils for major portions of the construction site, such as grubbing, excavation and grading:

Excavating and grading for ditches, culverts, detention basin, storm sewers, pavement subgrade, sidewalks, traffic signals, roadway lighting, top soil placement and seeding.

D. The total area of the construction site is estimated to be 37.9 acres.

The total area of the site that is estimated will be disturbed by excavation, grading or other activities is 32 acres.

- E. The following is a weighted average of the runoff coefficient for this project after construction activities are completed:

Phinney Basin – 73 (TR-55)
Embarras Basin – 74 (TR-55)

- F. The following is a description of the soil types found at the project site followed by information regarding their erosivity:

Information describing the soils at the site is contained in the Soils Report for the project, which is hereby incorporated by reference.

- G. The following is a description of potentially erosive areas associated with this project:

Some of the roadside ditches have potential for erosion and are being protected by seeding, sodding or riprap as shown on the plans.

- H. The following is a description of soil disturbing activities, their locations, and their erosive factors (e.g. steepness of slopes, length of slopes, etc):

Excavating and grading for ditches, culverts, detention basin, storm sewers, pavement subgrade, sidewalks, traffic signals, roadway lighting, top soil placement and seeding is being done continuously along all the roadways. Side slopes average from 1:3 to 1:6 where roadside ditches are located and average 2% where curb and gutters are located.

- I. See the erosion control plans and/or drainage plans for this contract for information regarding drainage patterns, approximate slopes anticipated before and after major grading activities, locations where vehicles enter or exit the site and controls to prevent offsite sediment tracking (to be added after contractor identifies locations), areas of soil disturbance, the location of major structural and non-structural controls identified in the plan, the location of areas where stabilization practices are expected to occur, surface waters (including wetlands) and locations where storm water is discharged to surface water including wetlands.

- J. The following is a list of receiving water(s) and the ultimate receiving water(s), and areal extent of wetland acreage at the site. The location of the receiving waters can be found on the erosion and sediment control plans:

The Phinney Branch Creek receives the waters for the west portion of the project and outlet to the Kaskaskia River. The east portion of the project is outletted by storm sewers and ditches to an existing drainage system that eventually outlets to the Embarras River. There are 086 acres of wetlands being disturbed and are being replaced with a combination wetland/detention basin site as shown on the plans.

- K. The following pollutants of concern will be associated with this construction project:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Soil Sediment | <input type="checkbox"/> Petroleum (gas, diesel, oil, kerosene, hydraulic oil / fluids) |
| <input checked="" type="checkbox"/> Concrete | <input type="checkbox"/> Antifreeze / Coolants |
| <input checked="" type="checkbox"/> Concrete Truck Waste | <input type="checkbox"/> Waste water from cleaning construction equipment |
| <input checked="" type="checkbox"/> Concrete Curing Compounds | <input type="checkbox"/> Other (specify) |
| <input type="checkbox"/> Solid Waste Debris | <input type="checkbox"/> Other (specify) |
| <input type="checkbox"/> Paints | <input type="checkbox"/> Other (specify) |
| <input type="checkbox"/> Solvents | <input type="checkbox"/> Other (specify) |
| <input checked="" type="checkbox"/> Fertilizers / Pesticides | <input type="checkbox"/> Other (specify) |

II. Controls:

This section of the plan addresses the controls that will be implemented for each of the major construction activities described in I.C. above and for all use areas, borrow sites, and waste sites. For each measure discussed, the contractor will be responsible for its implementation as indicated. The contractor shall provide to the resident engineer a plan for the implementation of the measures indicated. The contractor, and subcontractors, will notify the resident engineer of any proposed changes, maintenance, or modifications to keep construction activities compliant with the permit. Each such contractor has signed the required certification on forms which are attached to, and are a part of, this plan:

A. Erosion and Sediment Controls

1. **Stabilized Practices:** Provided below is a description of interim and permanent stabilization practices, including site specific scheduling of the implementation of the practices. Site plans will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Stabilization practices may include but are not limited to: temporary seeding, permanent seeding, mulching, geotextiles, sodding, vegetative buffer strips, protection of trees, preservation of mature vegetation, and other appropriate measures. Except as provided below in II(A)(1)(a) and II(A)(3), stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceases on all disturbed portions of the site where construction will not occur for a period of 21 or more calendar days.

- a. Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceases is precluded by snow cover, stabilization measures shall be initiated as soon as practicable thereafter.

The following Stabilization Practices will be used for this project:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Preservation of Mature Vegetation | <input checked="" type="checkbox"/> Erosion Control Blanket / Mulching |
| <input type="checkbox"/> Vegetated Buffer Strips | <input checked="" type="checkbox"/> Sodding |
| <input checked="" type="checkbox"/> Protection of Trees | <input checked="" type="checkbox"/> Geotextiles |
| <input checked="" type="checkbox"/> Temporary Erosion Control Seeding | <input checked="" type="checkbox"/> Other (specify) Riprap |
| <input type="checkbox"/> Temporary Turf (Seeding, Class 7) | <input checked="" type="checkbox"/> Other (specify) Precast blocks |
| <input type="checkbox"/> Temporary Mulching | <input type="checkbox"/> Other (specify) |
| <input checked="" type="checkbox"/> Permanent Seeding | <input type="checkbox"/> Other (specify) |

Describe how the Stabilization Practices listed above will be utilized:

Temporary seeding of disturbed areas will be done as soon as possible. Inlet and pipe protection will be placed at upstream ends of culverts and at inlets in earth areas to prevent silt from entering the drainage system. Inlet filters will be installed at all drainage structures within paved areas to prevent silt from entering the drainage system. Silt fences will be erected in fill areas to prevent sediment from discharging off the limits of the right of way. Permanent sodding, seeding and mulching will be done when the grading is complete.

2. **Structural Practices:** Provided below is a description of structural practices that will be implemented, to the degree attainable, to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Such practices may include but are not limited to: perimeter erosion barrier, earth dikes, drainage swales, sediment traps, ditch checks, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins. The installation of these devices may be subject to Section 404 of the Clean Water Act.

The following Structural Practices will be used for this project:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Perimeter Erosion Barrier | <input type="checkbox"/> Rock Outlet Protection |
| <input checked="" type="checkbox"/> Temporary Ditch Check | <input checked="" type="checkbox"/> Riprap |
| <input checked="" type="checkbox"/> Storm Drain Inlet Protection | <input type="checkbox"/> Gabions |
| <input checked="" type="checkbox"/> Sediment Trap | <input type="checkbox"/> Slope Mattress |
| <input type="checkbox"/> Temporary Pipe Slope Drain | <input type="checkbox"/> Retaining Walls |
| <input type="checkbox"/> Temporary Sediment Basin | <input type="checkbox"/> Slope Walls |
| <input type="checkbox"/> Temporary Stream Crossing | <input type="checkbox"/> Concrete Revetment Mats |
| <input type="checkbox"/> Stabilized Construction Exits | <input type="checkbox"/> Level Spreaders |
| <input type="checkbox"/> Turf Reinforcement Mats | <input checked="" type="checkbox"/> Other (specify) Precast Blocks |
| <input type="checkbox"/> Permanent Check Dams | <input type="checkbox"/> Other (specify) |
| <input checked="" type="checkbox"/> Permanent Sediment Basin | <input type="checkbox"/> Other (specify) |
| <input type="checkbox"/> Aggregate Ditch | <input type="checkbox"/> Other (specify) |
| <input type="checkbox"/> Paved Ditch | <input type="checkbox"/> Other (specify) |

Describe how the Structural Practices listed above will be utilized:

Temporary seeding of disturbed areas will be done as soon as possible. Inlet and pipe protection will be placed at upstream ends of culverts and at inlets in earth areas to prevent silt from entering the drainage system. Inlet filters will be installed at all drainage structures within paved areas to prevent silt from entering the drainage system. Silt fences will be erected in fill areas to prevent sediment from discharging off the limits of the right of way. Permanent sodding, seeding and mulching will be done when the grading is complete. Riprap, precast block and sediment trap protection will be used in high volume and velocity areas

3. Storm Water Management: Provided below is a description of measures that will be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. The installation of these devices may be subject to Section 404 of the Clean Water Act.

- a. Such practices may include but are not limited to: storm water detention structures (including wet ponds), storm water retention structures, flow attenuation by use of open vegetated swales and natural depressions, infiltration of runoff on site, and sequential systems (which combine several practices).

The practices selected for implementation were determined on the basis of the technical guidance in Section 59-8 (Erosion and Sediment Control) in Chapter 59 (Landscape Design and Erosion Control) of the Illinois Department of Transportation Bureau of Design and Environment Manual. If practices other than those discussed in Section 59-8 are selected for implementation or if practices are applied to situations different from those covered in Section 59-8, the technical basis for such decisions will be explained below.

- b. Velocity dissipation devices will be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected (e.g. maintenance of hydrologic conditions such as the hydroperiod and hydrodynamics present prior to the initiation of construction activities).

Description of Storm Water Management Controls.

Storm water detention will be provided in-line in roadside ditches and at the wetland/detention basin on S. Prospect Avenue. Pollutants in storm water discharges will be filtered by use of open vegetated roadside ditches and by the wetland/detention basin. A stilling basin will be installed at the outlet from the wetland/detention basin to dissipate the velocity to a non-erosive flow.

4. Other Controls:

- a. Vehicle Entrances and Exits – Stabilized construction entrances and exits must be constructed to prevent tracking of sediments onto roadways.

The contractor will provide the resident engineer with a written plan identifying the location of stabilized entrances and exits and the procedures (s)he will use to construct and maintain them.

- b. Material Delivery, Storage, and Use – The following BMPs shall be implemented to help prevent discharges of construction materials during delivery, storage, and use:
- All products delivered to the project site must be properly labeled.
 - Water tight shipping containers and/or semi trailers shall be used to store hand tools, small parts, and most construction materials that can be carried by hand, such as paint cans, solvents, and grease.
 - A storage/containment facility should be chosen for larger items such as drums and items shipped or stored on pallets. Such material is to be covered by a tin roof or large sheets of plastic to prevent precipitation from coming in contact with the products being stored.
 - Large items such as light stands, framing materials and lumber shall be stored in the open in a general storage area. Such material shall be elevated with wood blocks to minimize contact with storm water runoff.
 - Spill clean-up materials, material safety data sheets, an inventory of materials, and emergency contact numbers shall be maintained and stored in one designated area and each Contractor is to inform his/her employees and the resident engineer of this location.

- c. Stockpile Management – BMPs shall be implemented to reduce or eliminate pollution of storm water from stockpiles of soil and paving materials such as but not limited to portland cement concrete rubble, asphalt concrete, asphalt concrete rubble, aggregate base, aggregate sub base, and pre-mixed aggregate. The following BMPs may be considered:
 - Perimeter Erosion Barrier
 - Temporary Seeding
 - Temporary Mulch
 - Plastic Covers
 - Soil Binders
 - Storm Drain Inlet Protection

The contractor will provide the resident engineer with a written plan of the procedures (s)he will use on the project and how they will be maintained.

- d. Waste Disposal. No materials, including building materials, shall be discharged into Waters of the State, except as authorized by a Section 404 permit.
- e. The provisions of this plan shall ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.
- f. The contractor shall provide a written and graphic plan to the resident engineer identifying where each of the above areas will be located and how they are to be managed.

5. Approved State or Local Laws

The management practices, controls and provisions contained in this plan will be in accordance with IDOT specifications, which are at least as protective as the requirements contained in the Illinois Environmental Protection Agency's Illinois Urban Manual, 1995. Procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by local officials shall be described or incorporated by reference in the space provided below. Requirements specified in sediment and erosion site plans, site permits, storm water management site plans or site permits approved by local officials that are applicable to protecting surface water resources are, upon submittal of an NOI, to be authorized to discharge under permit ILR10 incorporated by reference and are enforceable under this permit even if they are not specifically included in the plan.

Description of procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by local officials:

The drainage plan has been approved by IDOT and the local agencies implementing the project.

III. Maintenance:

The following is a description of procedures that will be used to maintain, in good and effective operating conditions, the vegetation, erosion and sediment control measures and other protective measures identified in this plan. The resident engineer will provide maintenance guides to the contractor for the practices associated with this project.

The Contractor will be responsible for installing and maintaining the erosion control systems as directed by the Engineer.

IV. Inspections:

Qualified personnel shall inspect disturbed areas of the construction site which have not yet been finally stabilized, structural control measures, and locations where vehicles and equipment enter and exit the site. Such inspections shall be conducted at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater or equivalent snowfall.

- A. Disturbed areas, use areas (storage of materials, stockpiles, machine maintenance, fueling, etc.), borrow sites, and waste sites shall be inspected for evidence of, or the potential for, pollutants entering the drainage system.

Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Discharge locations or points that are accessible, shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off site sediment tracking.

- B. Based on the results of the inspection, the description of potential pollutant sources identified in section I above and pollution prevention measures identified in section II above shall be revised as appropriate as soon as practicable after such inspection. Any changes to this plan resulting from the required inspections shall be implemented within ½ hour to 1 week based on the urgency of the situation. The resident engineer will notify the contractor of the time required to implement such actions through the weekly inspection report.
- C. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of this storm water pollution prevention plan, and actions taken in accordance with section IV(B) shall be made and retained as part of the plan for at least three (3) years after the date of the inspection. The report shall be signed in accordance with Part VI. G of the general permit.
- D. If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the resident engineer shall complete and file an "Incidence of Noncompliance" (ION) report for the identified violation. The resident engineer shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of noncompliance shall be signed by a responsible authority in accordance with Part VI. G of the general permit.

The Incidence of Non-Compliance shall be mailed to the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Attn: Compliance Assurance Section
1021 North Grand East
Post Office Box 19276
Springfield, Illinois 62794-9276

V. Non-Storm Water Discharges:

Except for flows from fire fighting activities, sources of non-storm water that is combined with storm water discharges associated with the industrial activity addressed in this plan must be described below. Appropriate pollution prevention measures, as described below, will be implemented for the non-storm water component(s) of the discharge.

- A. Spill Prevention and Control – BMPs shall be implemented to contain and clean-up spills and prevent material discharges to the storm drain system. The contractor shall produce a written plan stating how his/her company will prevent, report, and clean up spills and provide a copy to all of his/her employees and the resident engineer. The contractor shall notify all of his/her employees on the proper protocol for reporting spills. The contractor shall notify the resident engineer of any spills immediately.
- B. Concrete Residuals and Washout Wastes – The following BMPs shall be implemented to control residual concrete, concrete sediments, and rinse water:
 - Temporary Concrete Washout Facilities shall be constructed for rinsing out concrete trucks. Signs shall be installed directing concrete truck drivers where designated washout facilities are located.
 - The contractor shall have the location of temporary concrete washout facilities approved by the resident engineer.
 - All temporary concrete washout facilities are to be inspected by the contractor after each use and all spills must be reported to the resident engineer and cleaned up immediately.
 - Concrete waste solids/liquids shall be disposed of properly.
- C. Litter Management – A proper number of dumpsters shall be provided on site to handle debris and litter associated with the project. The Contractor is responsible for ensuring his/her employees place all litter

including marking paint cans, soda cans, food wrappers, wood lathe, marking ribbon, construction string, and all other construction related litter in the proper dumpsters.

- D. Vehicle and Equipment Cleaning – Vehicles and equipment are to be cleaned in designated areas only, preferably off site.
- E. Vehicle and Equipment Fueling – A variety of BMPs can be implemented during fueling of vehicles and equipment to prevent pollution. The contractor shall inform the resident engineer as to which BMPs will be used on the project. The contractor shall inform the resident engineer how (s)he will be informing his/her employees of these BMPs (i.e. signs, training, etc.). Below are a few examples of these BMPs:
- Containment
 - Spill Prevention and Control
 - Use of Drip Pans and Absorbents
 - Automatic Shut-Off Nozzles
 - Topping Off Restrictions
 - Leak Inspection and Repair
- F. Vehicle and Equipment Maintenance – On site maintenance must be performed in accordance with all environmental laws such as proper storage and no dumping of old engine oil or other fluids on site.

VI. Failure to Comply:

Failure to comply with any provisions of this Storm Water Pollution Prevention Plan will result in the implementation of an Erosion and Sediment Control Deficiency Deduction against the contractor and/or penalties under the NPDES permit which could be passed onto the contractor.



This certification statement is part of the Storm Water Pollution Prevention Plan for the project described below, in accordance with NPDES Permit No. ILR10 issued by the Illinois Environmental Protection Agency on May 30, 2003.

Route Curtis Road – FAP Route 807

Marked Rt. No

Section 00-00374-01-PV

Project No. HPP-1805 (001)

County Champaign

Contract No. 91368

I certify under penalty of law that I understand the terms of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR 10) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification. I have read and understand all of the information and requirements stated in the Storm Water Pollution Prevention Plan for the above mentioned project. I have provided all documentation required to be in compliance with the ILR10 and Storm Water Pollution Prevention Plan and will provide timely updates to these documents as necessary.

Contractor

Sub-Contractor

Print Name

Signature

Title

Date

Name of Firm

Telephone

Street Address

City/State/ZIP

CONNECTING INTO EXISTING MANHOLES AND STORM SEWERS

At locations indicated in the plans, proposed storm sewers are to be connected into existing manholes or existing storm sewers. These connections shall be made by core drilling holes in the structures or pipes and constructing brick and masonry around the connections to prevent leakage. This work will not be paid for separately, but shall be considered as included in the contract unit prices for storm sewers of the size and type specified, and no additional compensation will be allowed.

CONSTRUCTION ON PRIVATE PROPERTY

Whenever excavation is made within a temporary or permanent construction easement, including tree planting easements, on private property for driveways, sidewalks, steps, retaining walls, utility connections, tree plantings or other construction, the topsoil disturbed by the excavation operations shall be restored as nearly as possible to its original position and the whole area involved in the construction operation shall be left in a neat and presentable condition.

The Contractor shall use reasonable care to avoid disturbing portions of private property not necessary to the construction operations. If, in the judgment of the Engineer, areas are disturbed unnecessarily, the Contractor shall restore these areas at his own expense. The Contractor shall not pile excavated material outside the limits of the R.O.W. upon adjacent private property without the written consent of the property owner and the Engineer.

The cost of compliance with this Special Provision will not be paid for separately but shall be considered, as included in the cost of the EARTH EXCAVATION pay item and no additional compensation will be allowed.

CURB AND GUTTER TRANSITIONS AND THICKNESS

Whenever it is necessary to make a smooth connection between the proposed gutter or curb and gutter and the existing curb and gutter the Contractor shall vary the horizontal and/or vertical dimensions of the proposed gutter or curb and gutter as directed by the Engineer. This work will not be paid for separately but will be considered as included in the contract unit prices for the various gutter or curb and gutter pay items and no additional compensation will be allowed.

CUTTING EXISTING PAVEMENT, DRIVEWAY PAVEMENT, SIDEWALK, OR CURB AND GUTTER

At locations where it is necessary to cut asphalt surfaces, concrete pavement, concrete or asphalt driveway pavement, concrete sidewalk, or concrete curb and gutter, where it will abut the proposed new construction, a uniformly straight cut shall be obtained by the use of a diamond concrete saw. The use of pneumatic tools to make these cuts will not be allowed. This work shall be considered as

included in the contract unit prices for the various pay items of the proposed construction involved and no additional compensation will be allowed.

EXISTING SEWERS AND DRAINAGE STRUCTURES TO BE PLUGGED

Where existing sewers are to be abandoned or removed as shown in the plans, or as directed by the Engineer, the abandoned sewers and drainage structure openings which remain shall be plugged with concrete or brick masonry plugs in a workmanlike manner and to the satisfaction of the Engineer. This work will not be paid for separately but will be considered as included in the contract unit prices for the various storm sewer pay items and no additional compensation will be allowed.

HAND GRADING

Grading shall be done by hand around light poles, utility poles, sign posts, shrubs, trees or other natural or man-made objects where shallow fills or cuts are adjacent to the items. It is the intent that the limits of construction be such as to preserve in the original state as much area of temporary easements as possible. The decision as to items to remain in place shall be as directed by the Engineer. This work will not be paid for separately and should be included in the cost of the earthwork.

MANHOLE STEPS

The manhole steps depicted on Highway Standard Drawing 602401 shall be omitted and will not be required for the manholes.

PRESERVING PROPERTY MARKERS

The Contractor shall locate the existing property corner markers along this section. Any such monuments unnecessarily destroyed by the Contractor's operations shall be replaced by a registered Illinois Land Surveyor at the Contractor's expense.

Any expense, inconveniences or delays caused the Contractor in complying with this Special Provision will be considered as included in the unit bid prices of the contract and no additional compensation will be allowed.

REMOVAL OF UNCLASSIFIED MATERIAL

Debris or unclassified materials shall be removed at the locations shown on the Plans or as designated by the Engineer. The material removed as required in this Special Provision shall be disposed of outside the limits of the right-of-way in accordance with Article 202.03 of the Standard Specifications and as directed by the Engineer. This work will not be paid for separately and is considered to be included in the cost of the various removal items.

SALVAGEABLE MATERIALS

All materials deemed salvageable by the Engineer shall remain the property of the implementing agencies and shall be stored on the job site as directed by the Engineer. The Contractor shall dispose of any materials off site that the Engineer determines should not be salvaged. This work will not be paid for separately and is considered to be included in the cost of the various removal items.

STOCKPILE AREAS

Short-term stockpile of backfill and crushed stone material will be allowed only where directed by the Engineer. Temporary stockpiles of materials shall not interfere with local and through traffic as described on the traffic control plans.

Stockpiles of materials shall not be allowed on private property (unless permission is granted by owner in writing), outside street rights-of-way; and shall not be allowed to block private driveways or sidewalks. Any grass area that is damaged by stockpiled material shall be repaired by either seeding or sodding as determined by the Engineer. These areas shall not be measured for payment and the Contractor shall repair them at his/her own expense.

UNIVERSITY OF ILLINOIS HIGH PRESSURE GAS MAIN

The Contractor shall use extreme caution whenever excavation is made within the vicinity of the existing or relocated high pressure gas main owned by the University of Illinois. The Contractor will be required to have a University of Illinois representative on site during potholing of the gas line and excavating near it for all construction operations. Sand meeting the approval of the Engineer should be used to backfill near the gas line to six inches over the top of the line if it is exposed. Coarse aggregate or controlled low strength material should not be used to backfill around an exposed gas line.

The cost of compliance with this Special Provision will not be paid for separately but shall be considered included in the various pay items of the proposed construction involved and no additional compensation will be allowed.

20201200 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL

Description

This work shall consist of undercutting, removing and disposing of unsuitable lime modified subgrade material at locations determined by the Engineer and in accordance with Section 202 of the Standard Specifications. All unsuitable lime modified materials shall be disposed of off the site unless directed otherwise by the Engineer. The unsuitable lime modified subgrade excavations shall be backfilled as shown on the "Subgrade Removal and Replacement Detail" in the plans or as directed by the Engineer. A removal quantity has been included in the plans for the purpose of establishing a unit bid price in case unsuitable materials are discovered. It is hereby understood that the implementing agencies reserve the right to delete any or all of this pay item quantity from the

contract. Should the implementing agencies delete any or all of this pay item quantity from the contract, the Contractor will receive no remuneration for the deleted item.

Measurement and Payment

This work of undercutting and removing unsuitable earth material will be measured in accordance with Article 202.07(b) of the Standard Specifications and will be paid for at the contract unit price per cubic yard for REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL. Backfilling the excavated areas with Granular Embankment, Special and Subbase Granular Material, Type B 6" material will be paid for separately.

20800150 TRENCH BACKFILL (SPECIAL)

Description

This work shall consist of furnishing and placing coarse aggregate for backfill around storm sewers, pipe culverts, box culverts, manholes, inlets and other trenches in accordance with the applicable portions of Sections 208, 502, 542, 550 and 551 of the Standard Specifications. The bedding material shall be moist aggregate in accordance with the applicable portions of Section 208, 540, 542 and 550 of the Standard Specifications. Where Trench Backfill (Special) is being used it shall also be used in place of the sand backfill specified in Article 602.12 of the Standard Specifications for backfill around manholes and inlets.

Materials

The trench backfill special material shall be coarse aggregate in accordance with Article 1004.05 of the Standard Specification.

Measurement and Payment

The coarse aggregate used for backfill around manholes or inlets will not be measured for payment but shall be included in the cost of the specified manhole or inlet in accordance with Articles 602.12 and 602.16 of the Standard Specifications. The coarse aggregate used for backfill for storm sewers, pipe culverts, box culverts and trenches resulting from removals of storm sewers or culverts will be measured for payment at the contract unit price per cubic yard for TRENCH BACKFILL (SPECIAL), in accordance with Sections 208, 502, 542, 550, and 551 of the Standard Specifications, which price shall include all materials, labor and equipment to perform the work.

21000300 GRANULAR EMBANKMENT, SPECIAL

Description

This work shall consist of placing a granular material as fill in areas where unsuitable lime modified subgrade material has been removed as shown on the detail "Subgrade Removal and Replacement Detail" and as directed by the Engineer. This work shall be in accordance with Sections 207 and 210 of the Standard Specifications.

Materials

The granular material shall be in accordance with Article 1004.04 of the Standard Specifications

except that the material gradation shall meet the following requirements:

<u>Sieve Size</u>	<u>Percent Passing*</u>		<u>Sieve Size</u>	<u>Percent Passing*</u>
6 inch	100		6 inch	100
4 inch	85+15		4 inch	85+15
2 inch	60+20	or	2 inch	45+25
1 inch	45+20		1 inch	10+10
#4	20+10		#200	2+2
#200	5+5			

*A dry gradation will be required to verify the #200 sieve specification.

Construction Requirements

The material shall be placed in two lifts with a maximum lift thickness of 9 inches. A vibratory roller meeting the requirements of Article 1101.01 of the Standard Specifications shall be used to compact each lift of material to the satisfaction of the Engineer.

Measurement and Payment

This work will be measured and paid for at the contract unit price per ton for GRANULAR EMBANKMENT, SPECIAL, which price shall include furnishing, placing and compacting the material.

- 21101505 TOPSOIL EXCAVATION AND PLACEMENT**
- 25000900 SEEDING, CLASS 1 (SPECIAL)**
- 25001000 SEEDING, CLASS 2 (SPECIAL)**
- 25200200 SUPPLEMENTAL WATERING**
- XX006444 MULCH, SPECIAL**

Description

This work shall consist of preparing the seedbed, furnishing, transporting, and placing the topsoil, seed, fertilizer and mulch as required in the seeding operations. The work shall be in accordance with the applicable articles of Sections 211, 250 and 251 of the Standard Specifications except as modified herein. Seeding, Class 1, Special shall be used for seeding lawns in urbanized areas and Seeding, Class 2, Special shall be used for seeding roadside and ditch areas in rural areas. Mulch, Special shall be used for areas that receive Seeding, Class 1 (Special) and Mulch, Method 2 shall be used for areas that receive Seeding, Class 2 (Special).

The areas for seeding and mulching shall be any area disturbed beyond the existing condition by the Contractor's construction operations. The plan quantity for seeding and mulching includes the entire area within the construction limits. The Contractor is advised that payment for sodding, seeding and mulching will be made for only those areas which were necessarily disturbed by construction operations as determined by the Engineer. Turfed areas which are needlessly disturbed by construction operations shall be sodded or seeded as directed by the Engineer at the Contractor's expense.

To prevent erosion and to satisfy the requirements of the NPDES permit, seeding, fertilizing and mulching should be completed as soon as possible after the completion of each stage of the project. The Engineer shall determine if temporary seeding should be done or if the permanent seeding should be done at the completion of each stage of construction. The seed planting times shall be in accordance with Article 250.07 of the Standard Specifications or as directed by the Engineer. The Contractor will be responsible for the seeded areas until they are fully established which may require re-seeding and mulching of any bare areas until seed growth is established. The Contractor shall maintain the seeded areas until such time as the requirements of the NPDES permit are satisfied. The Contractor shall guarantee 75% uniform growth of grass over the entire site for one growing season in accordance with Article 250.07 of the Standard Specifications.

Materials

All materials shall meet the requirements of Sections 250 and 251 of the Standard Specification except, Mulch, Special shall consist of one of the following products, “StrawNet”, “Green Yard Mulch” or “EZ Mulch +” or an approved equal. Straw, straw netting, straw matting and or excelsior blankets shall not be used.

The seed mixtures shall be as follows. Weights shown are in LBS per ACRE. Seeding is to be at a rate 50% greater than required in the Standard Specifications.

<u>Seeding, Class 1 (Special)</u>		<u>Seeding, Class 2 (Special)</u>	
KY Bluegrass	150 lbs.	Inferno Tall Fes. or Tarheel II Tall Fes.	150 lbs.
Perennial Ryegrass	90 lbs.	Perennial Ryegrass	75 lbs.
Creeping Red Fescue	60 lbs.	Creeping Red Fescue	60 lbs.
<u>TOTAL</u>	<u>300 lbs.</u>	<u>Red Top</u>	<u>15 lbs.</u>
		<u>TOTAL</u>	<u>300lbs.</u>

When seeding occurs between June 1 and August 15 the above mixtures shall also include 50 lbs./acre of Annual Ryegrass. The seed shall be free of foreign varieties of seed and noxious weeds in accordance with Article 1081.04 of the Standard Specifications. The Contractor shall supply the proper certifications and weight tickets for the seed, fertilizer and mulch materials.

Construction Requirements

The topsoil shall meet the requirements of Article 1081.05(a) of the Standard Specifications except that the topsoil shall be sifted and all deleterious material removed including dirt clods greater than 1” in diameter.

Before any seeding begins, the Contractor shall be responsible for the removal of all debris and other deleterious material that would interfere or complicate the future maintenance of the restored surfaces and adjacent areas. After cleanup and power raking of the area to be seeded has occurred, all areas to be seeded and mulched shall have a minimum of 6” of agricultural grade topsoil applied. All areas prepared and ready for seeding shall be inspected and approved by the Engineer prior to any seed application.

The mulch or mulch and fertilizer mixture shall promote and replicate the following:

1. Immediate germination and rapid root development without burning.
2. Expand and provide soil surface coverage to promote young seedling establishment and greatly reduce soil erosion.

The seed enhancing mulch mixture application rate shall meet the manufactures suggested minimum requirements and should be watered immediately following application to sufficiently make the mulch expand as designed.

Five (5) Supplemental Waterings shall be applied under this contract for both seeded and sodded areas as directed by the Engineer. One application of water will be required every two days or as directed by the Engineer. Depending upon weather conditions, more or fewer supplemental waterings may be necessary. All watering described shall be done with a spray application. Water shall be applied at the rate of two (2) gallons per square yard per application. An open-ended hose will not be acceptable. The method of watering shall meet the acceptance of the Engineer.

After the seeded and sodded areas are established the site shall be mowed as directed by the Engineer. The mowing shall be in accordance with Article 250.10 of the Standard Specifications.

Measurement and Payment

This work will be measured and paid for at the contract unit price per cubic yard for TOPSOIL EXCAVATION AND PLACEMENT and per acre for SEEDING, CLASS 1 (SPECIAL), SEEDING, CLASS 2 (SPECIAL) and MULCH (SPECIAL) in accordance with Sections 211, 250 and 251 of the Standard Specifications. The supplemental watering will be measured and paid for at the contract price per unit for SUPPLEMENTAL WATERING, with one unit equaling 1000 gallons of water applied. Any additional seeding and mulching of bare areas after the initial seeding and mulching operation will not be paid for separately, but will be considered as included in the cost of the seeding and mulching pay items. The plan quantity for seeding and mulching includes the entire area within the construction limits. The Contractor is advised that payment for seeding and mulching will be made for only those areas which were necessarily disturbed by construction operations as determined by the Engineer. Turfed areas beyond the construction limits which are unnecessarily disturbed by construction operations shall be seeded or sodded as directed by the Engineer at the Contractor's expense.

28000255 TEMPORARY EROSION CONTROL SEEDING

Description

This work shall consist of placing temporary seeding on erodible surfaces in accordance with Section 280 of the Standard Specifications and as directed by the Engineer. The seed mixture and rates shall be as specified in Article 280.04 (f) of the Standard Specifications.

Measurement and Payment

This work will be measured for payment at the contract unit price per acre for TEMPORARY EROSION CONTROL SEEDING.

28101500 RIPRAP, SPECIAL

Description

This work shall consist of the construction of a protective course of stone for erosion protection in accordance with the applicable Articles of Section 281 of the Standard Specifications and these special provisions.

Materials

The gradation or size of the stone shall conform to gradation RR4 of Article 1005.01 of the Standard Specifications or to the following gradation or size:

<u>Size</u>	<u>Range (Percent) Max. Size 150 lbs.</u>
50 - 150 lbs. per piece	15 ± 7
20 - 50	30 ± 15
5 - 20	40 ± 15
Less than 5	15 ± 15

Construction Method

Foundation preparation and placing of the materials shall be done in accordance with Articles 281.03 and 281.04 of the Standard Specifications. The riprap shall be a minimum of 18 inches thick and placed on a filter fabric. A bedding layer will not be required. A cement grout shall be placed in such a manner as to form a stable mat between the individual stone riprap and pieces. This grout shall consist of a mixture of Portland Cement, sand, 5/8 inch (maximum size) pea gravel and water so proportioned and mixed to provide a readily workable slurry. The cement content of grout shall not be less than five (5) bags per cubic yard and the hardened grout shall have a minimum compressive strength of 2,000 pounds per square inch at 28 days. The estimated quantity of grout is one (1) cubic yard per twelve (12) square yards of riprap surface.

Measurement and Payment

This work will be paid for at the contract unit price per ton for RIPRAP, SPECIAL, which price shall include all materials, including excavation, filter fabric, grout and labor necessary to complete the work. Section 282 of the Standard Specifications is hereby revised that filter fabric is not to be paid for separately, but included in the price for the RIPRAP, SPECIAL, as noted above.

28500200 PRECAST BLOCK REVETMENT MAT

Description

This work shall consist of the construction of precast block revetment mats for erosion protection in accordance with the details shown on the plans and the applicable Articles of Sections 285 and 1042 of the Standard Specifications and these special provisions.

Materials

The precast block revetment mats shall be Armorflex, Class 30S as manufactured by Armortec or approved equal. The blocks shall have open cells, 4.5 inch minimum height and have a minimum weight of 32 pounds per square foot. The filter fabric shall be in accordance with Section 282 of the Standard Specifications.

Construction Method

Foundation preparation and placing of the materials shall be done in accordance with Articles 285.04 and 285.06 of the Standard Specifications. The blocks may be cut or gapped to adhere to the necessary shapes as directed by the Engineer. Gaps or irregular joints in the blocks shall be filled with concrete.

Measurement and Payment

This work will be paid for at the contract unit price per square yard for PRECAST BLOCK REVETMENT MAT or FILTER FABRIC, in accordance with Articles 285.09 and 285.10 of the Standard Specifications which price shall include all materials, including excavation, block revetment mats, filter fabric, concrete and labor necessary to complete the work.

31200100 STABILIZED SUB-BASE 4”

Description

This work shall consist of the construction of a stabilized sub-base in accordance with the applicable Articles of Section 312 of the Standard Specifications except that only Hot-Mix Asphalt or Cement Aggregate Mixture II will be allowed. The pozzolanic mixture will not be allowed.

Measurement and Payment

This work will be measured for payment at the contract unit price per square yard for STABILIZED SUB-BASE 4”, in accordance with Articles 312.32 and 312.33 of the Standard Specifications

42000401 PORTLAND CEMENT CONCRETE PAVEMENT 8” (JOINTED)

Description

This work shall consist of constructing a Portland cement concrete pavement in accordance with Section 420 of the Standard Specifications with the following requirements.

Longitudinal Construction Joints

Installing the tie bars in formed or drilled holes as specified in Article 420.05(b) of the Standard Specifications will not be allowed when the concrete is in a plastic condition.

Final Finish

The final finish of the pavement shall be a heavy broom finish that is performed to the satisfaction of the Engineer. Hand tining or tining the pavement surface with a mechanically operated comb will not be allowed.

Surface Tests and Tolerance in Thickness

The surface of the finished pavement shall be tested with a profilograph furnished by the Contractor in accordance with Article 420.10 of the Standard Specifications using guidelines for a speed of 45 mph or greater. The thickness of the finished pavement shall be in accordance with Article 420.15 of the Standard Specifications. Contract unit price adjustments for surface tests or tolerance in thickness will not exceed 100%.

Measurement and Payment

This work will be measured and paid for in accordance with Articles 420.19 and 420.20 of the Standard Specifications, except the cost of furnishing a California type profilograph or approved equivalent, providing for its maintenance and jobsite transportation, furnishing the profile scale and bump template, profilograph paper and recorder pens as outlined in Sections 407 and 420 and performing the required surface testing will not be paid for separately but shall be included in the contract unit price per square yard for PORTLAND CEMENT CONCRETE PAVEMENT 8" (JOINTED).

44004400 PAVEMENT REMOVAL (SPECIAL)

Description

This work shall consist of the removal of the existing asphalt and oil and chip pavements by milling and then stockpiling the salvaged material for use as a substitute for lime modified soil, aggregate base course or aggregate for temporary access. The salvaged material shall be reused as specified in the special provisions for SALVAGED AGGREGATE MATERIAL.

Construction Requirements

The existing pavements shall be removed with a self-propelled milling that meets the requirements of Article 1101.16 of the Standard Specifications. The milled material shall be no larger than 1 1/2" diameter and shall be stockpiled at locations approved by the Engineer. The Contractor shall use care in removing and stockpiling the material to prevent contamination with earth or other foreign materials. Any excess or unsuitable materials determined not to be usable by the Engineer shall be disposed of off-site by the Contractor.

Measurement and Payment

The pavement removal will be measured in square yards in accordance with Article 440.07 of the Standard Specifications and will be paid for as PAVEMENT REMOVAL (SPECIAL). The placement, grading, shaping and compacting of the salvaged material will be paid for as SALVAGED AGGREGATE MATERIAL

50104400 CONCRETE HEADWALL REMOVAL

Description

This work shall consist of removing and disposing of existing concrete headwalls at the locations shown in the plans and in accordance with applicable Articles of Section 501 of the Standard Specifications except that the headwalls shall be completely removed. All excavations resulting from

the removal of the headwalls that fall within two feet of paved areas shall be backfilled with controlled low-strength material in accordance with Section 593 of the Standard Specifications.

Measurement and Payment

This work will be paid for at the contract unit price per each for CONCRETE HEADWALL REMOVAL, which price shall include removal and disposal of the materials and backfilling with controlled low-strength material.

50105210 REMOVE EXISTING CULVERTS

Description

This work shall consist of the removal and disposal of existing pipe culverts of various diameters including prefabricated end sections at the locations shown on the plans and as directed by the Engineer. The Contractor shall dispose of the culverts in accordance with Article 202.03 of the Standard Specifications. Excavations resulting from the removal of the culverts that are within two feet of paved surfaces shall be backfilled with Trench Backfill, Special or Controlled Low-Strength Material as indicated on the plans.

Measurement and Payment

This work will be measured for payment at the contract unit price per foot for REMOVE EXISTING CULVERTS, which price shall be considered payment in full for all labor, equipment, and materials required for the satisfactory removal and disposal of the existing culverts. The length of prefabricated end sections to be removed will also be included for payment. The removal of concrete headwalls will be paid for separately as specified herein. Trench Backfill, Special and Controlled Low-Strength Material will be paid for separately as specified herein.

50900805 PEDESTRIAN RAILING

Description

This work shall consist of constructing a pedestrian railing in accordance with Section 509 of the Standard Specifications and the detail drawings shown in the plans. The railing system shall be galvanized and painted.

Painting Requirements

All weld flux and other contaminates shall be mechanically removed. All surfaces shall be degreased, cleaned, and air dried to assure all moisture is removed. All galvanized exterior surfaces shall be coated with a urethane or triglycidyl isocyanurate (TGIC) polyester powder to a dry film thickness of 2.0 mils. The painting shall be in accordance with the applicable Articles of Sections 506 and 509 of the Standard Specifications. The paint finish shall be the powder type and the color shall be black. Any damage to the finish after leaving the shop facility shall be repaired to the satisfaction of the Engineer using a method approved by the Engineer.

Measurement and Payment

This work will be measured for payment at the contract unit price per foot for PEDESTRIAN RAILING, which price shall include all labor, equipment and materials, including rails, posts, anchor devices and painting.

54247100 GRATING FOR CONCRETE FLARED END SECTION 15”

54248100 GRATING FOR CONCRETE FLARED END SECTION EQUIVALENT ROUND-SIZE 15”

XX003817 GRATING FOR CONCRETE FLARED END SECTION 12”

Description

This work shall consist of furnishing and installing gratings of the size specified for concrete flared end sections in accordance with Section 542 of the Standard Specifications.

Measurement and Payment

This work will be measured and paid for at the contract unit price each for GRATING FOR CONCRETE FLARED END SECTION, 15”, GRATING FOR CONCRETE FLARED END SECTION EQUIVALENT ROUND-SIZE 15” or GRATING FOR CONCRETE FLARED END SECTION, 12”.

54248515 CONCRETE COLLAR

Description

This work shall consist of constructing concrete collars around joints of pipes where the pipes being joined are of different diameters or types of materials. The collars shall be as shown on the detail in the plans and shall be constructed with class SI concrete in accordance with Section 1020 of the Standard Specifications. The excavation and backfilling shall be as specified for the associated pipe installation.

Measurement and Payment

This work will be measured and paid for at the contract unit price each for CONCRETE COLLAR, which price shall include all labor, equipment and materials required including the welded wire fabric.

STORM SEWER REMOVAL

Description

This work shall consist of the removal and disposal of existing storm sewers including prefabricated end sections at the locations shown on the plans in accordance with Section 551 of the Standard Specifications and as directed by the Engineer. Storm sewer materials determined not to be salvageable by the Engineer shall be disposed of by the Contractor in accordance with Article 202.03 of the Standard Specifications. Excavations resulting from the removal of the storm sewers that are within two feet of paved surfaces shall be backfilled with controlled low-strength material.

Measurement and Payment

This work will be measured for payment at the contract unit price per foot for STORM SEWER REMOVAL of various sizes, which price shall be considered payment in full for all labor, equipment, and materials required for the satisfactory removal and disposal of the existing storm sewers. The length of prefabricated end sections to be removed will also be included for payment. Controlled Low-Strength Material will be paid for separately as specified herein.

59300100 CONTROLLED LOW-STRENGTH MATERIAL

Description

This work shall consist of furnishing and placing controlled low-strength material (CLSM) for backfill around manholes and inlets and for backfilling excavations resulting from the removal of existing manholes and inlets that are within two feet of paved surfaces. This work shall be in accordance with the applicable articles of Sections 593, 602 and 605 of the Standard Specifications. CLSM shall be used in place of the sand backfill specified in Articles 602.12 and 605.03 of the Standard Specifications for backfill around manholes and inlets and for backfilling excavations resulting from the removal of structures.

Measurement and Payment

The (CLSM) used for backfill around manholes or inlets will not be measured for payment but shall be included in the cost of the specified manhole or inlet in accordance with Article 602.12 of the Standard Specifications. The (CLSM) used for backfilling excavations resulting from the removal of manholes and inlets will be paid for at the contract unit price per cubic yard for CONTROLLED LOW-STRENGTH MATERIAL.

60108100 PIPE UNDERDRAINS 4" (SPECIAL)

Description

This work shall consist of the construction of pipe underdrains as shown on the proposed typical sections in the plans and in accordance with Section 601 of the Standard Specifications and the details shown on Highway Standard Drawing 601001 except that only perforated corrugated polyethylene (PE) tubing with a fabric envelope around the pipe will be allowed. A fabric envelope around the trench walls will not be required. The underdrains shall also be provided with cleanouts as shown on the detail in the plans. The pipe material shall be in accordance with Article 1040.04 of the Standard Specifications. The trench shall be backfilled with coarse aggregate CA16.

Measurement and Payment

This work will be measured for payment at the contract unit price per foot for PIPE UNDERDRAINS 4" (SPECIAL), which price shall include excavation, aggregate backfilling, cleanouts and fittings. Measurement will be in accordance with Articles 601.07 of the Standard Specifications.

RESTRICTED DEPTH MANHOLES AND INLETS

Description

This work shall consist of the construction of manholes and inlets in accordance with Section 602 of the Standard Specifications and the details of Highway Standard Drawings 602306, 602401, 602406 and 602416, except that these structures shall be constructed with precast concrete flat slab tops as detailed in Standard Drawings 602601, 602406 and 602416. Any necessary lengths of 24-inch diameter risers required to achieve the top-of-frame elevations as shown in the plans shall also be included. All manholes shall be type A.

Measurement and Payment

This work will be measured for payment at the contract unit price each for RESTRICTED DEPTH MANHOLES or RESTRICTED DEPTH INLETS, of the specified type and diameter, with frame and grate or lid. The price shall include the cost of all excavation and backfill, furnishing and installing the inlets, manholes, flat slab tops, and any required risers, and furnishing and installing the specified frame and grate or lid.

INLETS AND MANHOLES WITH TYPE 3 OR TYPE 3V FRAME AND GRATES

Description

Type 3 Frames and Grates shall be provided with open curb boxes. Type 3V Frames and Grates shall meet the requirements of Highway Standard 604011, except they shall be provided with open curb boxes.

Measurement and Payment

These frame and grate substitutions will not be paid for separately, but shall be considered as included in the contract unit price for the specified pay items involved.

60228600 MANHOLES, SPECIAL WITH TYPE 1 FRAME, CLOSED LID

Description

This work shall consist of the construction of a conflict manhole in accordance with the detail shown in the plans, Section 602 of the Standard Specifications and the details of Highway Standard Drawings 602401 and 604001.

Measurement and Payment

This work will be measured for payment at the contract unit price each for MANHOLES, SPECIAL WITH TYPE 1 FRAME, CLOSED LID. The price shall include the cost of all excavation, furnishing and installing the manhole with the specified frame and lid. Backfilling shall be included in the cost of the manhole to the limits specified in Article 602.12 of the Standard Specifications. The sanitary sewer will be paid for separately as specified herein.

60247400 JUNCTION BOX, NO. 1

Description

This work consists of the constructing a drainage junction box at the location shown in the plans and in accordance with the detail shown in the plans.

Construction Requirements

The construction and materials shall be in accordance with the details shown in the plans and the applicable portions of Sections 502, 503, 505, 508 and 602 of the Standard Specifications, and as directed by the Engineer.

Measurement and Payment

This work will be paid for at the contract unit price each for JUNCTION BOX, NO. 1, which price shall include all labor, equipment and materials necessary to perform the work as specified including concrete, reinforcement bars, frames and lids, structure excavation and backfilling.

60257600 MANHOLES TO BE ADJUSTED WITH FRAME AND GRATE (SPECIAL)

Description

This work shall consist of adjusting to grade an existing manhole with a new frame and closed lid at the location shown on the plans and as directed by the Engineer. The work shall be done in accordance with the applicable articles of Section 602 of the Standard Specifications. The manhole shall be adjusted by removing the existing frame and lid and installing a new frame with closed lid and any concrete adjusting rings that may be necessary to bring the frame and lid to the finished grade elevations shown on the plans. The frame and lid shall be Neenah Foundry number R-1689 with a non-rocking closed lid or approved equal.

Measurement and Payment

This work will be paid for at the contract unit price each for MANHOLES TO BE ADJUSTED WITH FRAME AND GRATE (SPECIAL), which price shall include removing the frame and lid and furnishing and installing concrete adjusting rings and the new frame and lid.

60258000 MANHOLES TO BE RECONSTRUCTED (SPECIAL)

Description

This work shall consist of reconstructing an existing manhole by removing the flat slab top and frames and grates and constructing a new flat slab top, adjusting rings, and a new frame and closed lid at the location shown on the plans and in accordance with the detail shown in the plans. Reinforcement bars shall be placed in the curb along the frame and lid as shown on the detail. The frame and lid shall be a Type 1 with a closed lid. This work shall be done in accordance with the applicable Articles of Section 602 of the Standard Specifications.

Measurement and Payment

This work will be paid for at the contract unit price each for MANHOLES TO BE RECONSTRUCTED (SPECIAL), which price shall include excavation, removing the flat slab top and frame and lid and furnishing and installing a new flat slab top, concrete adjusting rings, new frame and lid, reinforcement bars and backfilling.

60500065 REMOVING INLETS, SPECIAL

Description

This work shall consist of removing an existing inlet by removing the frame and grate and concrete barrel section above a storm sewer and constructing a reinforced concrete cap over the opening in the top of the storm sewer at the location shown on the plans and in accordance with the detail shown in the plans. The opening shall be covered with a metal plate approved by the Engineer prior to constructing the concrete cap as shown on the detail. This work shall be done in accordance with the applicable Articles of Section 605 of the Standard Specifications.

Measurement and Payment

This work will be paid for at the contract unit price each for REMOVING INLETS, SPECIAL, which price shall include excavation, removing the frame and grate and barrel section, and furnishing and installing the metal plate, concrete cap, and reinforcement bars. The backfilling with controlled low-strength material will be paid for separately.

60602600 CONCRETE GUTTER, TYPE A (MODIFIED)

Description

This work shall consist of constructing a concrete gutter with outlets at locations shown on the plans and in accordance with the detail shown in the plans. The work shall be in accordance with the applicable Articles of Section 606 of the Standard Specifications.

Measurement and Payment

The cost of constructing the concrete gutter and outlets as shown on the plans will be paid for at the contract unit price per foot for CONCRETE GUTTER, TYPE A (MODIFIED) measured along the gutter flowline. The price shall include all labor and materials including concrete, reinforcement bars, tie bars, and saw joints. The inlets will be paid for separately.

COMBINATION CONCRETE CURB AND GUTTER

Description

This work shall consist of constructing combination concrete curb and gutters with reverse and varying gutter flag slopes at locations shown on the plans and in accordance with the proposed typical sections. The work shall be in accordance with the applicable parts of Standard 606001 and Section 606 of the Standard Specifications.

Measurement and Payment

The cost of constructing the combination concrete curb and gutter with reverse and varying gutter

flag slopes will not be paid for separately and shall be included in the cost of the various types of combination concrete curb and gutter.

60605400 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (SPECIAL)

Description

This work shall consist of constructing combination concrete curb and gutters with thicknesses greater than 9 inches in accordance with proposed typical sections and at locations shown on the plans. The work shall be in accordance with the applicable parts of Standard 606001 and Section 606 of the Standard Specifications.

Measurement and Payment

The cost of constructing the combination concrete curb and gutters with increased thickness will be paid for at the contract unit price per foot for COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (SPECIAL).

60614600 PAVED DITCH (SPECIAL)

Description

This work shall consist of constructing a paved ditch at locations shown on the plans in accordance with the detail "For Treatment of Existing Field Tile Systems" shown in the plans. The work shall be in accordance with the applicable parts of Standard 606401 and Section 606 of the Standard Specifications.

Measurement and Payment

The cost of constructing the paved ditch will be paid for at the contract unit price per foot for PAVED DITCH (SPECIAL) measured along the paved ditch flowline. The price shall include all labor and materials including concrete and welded wire fabric.

61140200 STORM SEWERS, SPECIAL 12"

Description

This work shall consist of constructing storm sewers to outlet existing field tiles in accordance with the detail "For Treatment of Existing Field Tile Systems" shown in the plans. The pipe material shall be Storm Sewer Class B in accordance with Article 550.03 of the Standard Specifications. The work shall be in accordance with the applicable articles of Section 611 of the Standard Specifications.

Measurement and Payment

This work will be measured for payment at the contract unit price per foot for STORM SEWERS, SPECIAL 12", which price shall include all labor and materials including excavation and backfilling.

66700095 PERMANENT SURVEY MARKERS
X0301232 SURVEY MARKER VAULT

Description

This work shall consist of furnishing and erecting permanent survey markers in vaults at locations shown on the plans. The marker and vault shall be in accordance with the details shown on the plans and the applicable Articles of Sections 667 and 668 of the Standard Specifications. The existing markers shall be cross-tied prior to the start of construction operations. After the construction is complete the new marker and vault shall be erected by sawing and removing a portion of the pavement and placing the new marker and vault with a concrete encasement. The tablet shall be marked and a new monument record shall be recorded at the County Recorders Office. All work shall be done by an Illinois Professional Land Surveyor. In addition, the Contractor shall erect appropriate protection to ensure that existing monuments or markers that are not a part of the construction are not disturbed.

Measurement and Payment

This work will be measured and paid for at the contract unit price each for PERMANENT SURVEY MARKERS and per each for SURVEY MARKER VAULT, which price shall include all costs of furnishing and installing the completed assembly as specified herein, including the tablet, vault, concrete and the services of an Illinois Professional Land Surveyor.

84200500 REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE

Description

This work shall consist of the removal and storing of existing lighting units at the locations shown on the plans and as directed by the Engineer. The work shall be in accordance the applicable Articles of Section 842 of the Standard Specifications, except the lighting units shall be stored on site and shall become the property of the property owner. Lighting units determined by the owner and the Engineer not to be salvaged shall be disposed of by the Contractor in accordance with Article 202.03 of the Standard Specifications. The existing lights and appurtenances shall be removed and stored so as to prevent damage to the materials except for any concrete footings that may be present, which will not be salvaged. The resultant voids from the removal of the lighting units shall be backfilled with earth or controlled low-strength material as directed by the Engineer.

Measurement and Payment

This work will be measured for payment at the contract unit price each for REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE. The price shall be considered payment in full for all materials, labor and equipment to perform the work including backfilling holes with controlled low-strength material.

TREES

Description

This work shall consist of furnishing, transporting, and planting of trees. This work shall also include

mulching, wrapping, watering, weeding, replacement of trees when required, and all work described herein. The type and location of the trees shall be as shown in the plans.

Construction Requirements

This work shall be performed in accordance with the applicable Articles of Section 253 of the Standard Specifications and the following planting standards:

- The planting hole should be 24"-36" larger in diameter than the diameter of the root ball, and root balls shall be placed on undisturbed or compacted subgrade to prevent settling.
- The root flare, where roots spread at the tree base, should always be at the ground line. Often nurseries mount soil around the tree base above the root flare. When balled with burlap, the basal flare is hidden. If the tree is planted with the top of the ball at ground line, the tree will have been planted too deeply.
- The twine holding the burlap around the ball must be cut and the burlap loosened from around the top of the ball. Wire baskets shall be removed from the top one-half of the root ball prior to backfilling.
- The hole should be backfilled and gently tamped so that no air pockets are left around the ball. Backfill soil should not be amended unless planting in building rubble, poor, or severely disturbed soils.
- The trunks should be vertical after planting.
- Excess soil should be removed from the site and a 3" to 4" thick layer of mulch placed over a weed barrier fabric around the base of the tree. Avoid placing mulch directly in contact with the trunk.
- Trees should be watered at the time of planting.
- Protective tree wrap should be removed after planting.
- Staking is not typically recommended; however, when determined necessary by the Engineer, follow current recommendations of City Forester; wire in a hose is unacceptable.
- Trees should be pruned after planting only to remove broken or dead branches.
- The plant site should be free of overhanging crown growth from adjacent trees.

Measurement and Payment

This work will be measured for payment at the contract unit price each for the type and size of TREE, which price shall include all materials, labor and equipment to perform this work.

<u>K0038000</u>	<u>PERENNIAL PLANTS, WETLAND EMERGENT TYPE</u>
<u>K1004469</u>	<u>PERENNIAL PLANTS, PRAIRIE TYPE</u>
<u>K1004572</u>	<u>PRAIRIE SEEDING (SPECIAL)</u>

Description

This work shall consist of planting perennial plants and seeding in accordance with Section 254 of the Standard Specifications except as specified herein, as indicated in the plans, and as directed by the Engineer.

Materials

Plants shall be in accordance with Section 254 of the Standard Specifications, except the prairie type plants and seeding shall be modified according to the following table:

Perennial Plants, Prairie Type
Prairie Seeding (Special)

Detention Basin/Wetland Zone 3

These species will be installed by plugs and interseeding.

Common name	Scientific Name	Quantity/acre		
		Seed	Oz./Lbs.	Plants
Culver's root	<i>Veronicastrum virginicum</i>	1.00	Oz.	
Cup-plant	<i>Silphium perfoliatum</i>	2.00	Oz.	
Prairie cordgrass	<i>Spartina pectinata</i>			250
Big bluestem	<i>Andropogon gerardii</i>	0.50	Lbs.	
Indian grass	<i>Sorghastrum nutans</i>	0.50	Lbs.	
Purple coneflower	<i>Echinacea purpurea</i>	2.00	Oz.	
Blazing star	<i>Liatris spicata</i>	2.00	Oz.	
Rattlesnake master	<i>Eryngium yuccifolium</i>	2.00	Oz.	100
New England Aster	<i>Aster novae-angliae</i>	2.00	Oz.	
Prairie dock	<i>Silphium terebinthinacea</i>	2.00	Oz.	
Canada milkvetch	<i>Astragalus canadensis</i>	1.00	Oz.	
Virginia wild rye	<i>Elymus virginicus</i>	2.00	Lbs.	
Golden alexander	<i>Zizia aurea</i>			100
Mountain blue-eyed grass	<i>Sisyrinchium campestre</i>			100
Sky blue aster	<i>Aster azureus</i>	2.00	Oz.	
Little bluestem	<i>Andropogon scoparius</i>	1.00	Lbs.	
Purple prairie clover	<i>Dalea purpurea</i>	2.00	Oz.	
Prairie smoke	<i>Geum triflorum</i>	2.00	Oz.	
Prairie dropseed	<i>Sporobolus heterolepis</i>	2.00	Oz.	

Boldface print indicates questionable availability. Based on availability, plant substitutions may be made at the discretion of the planting contractor. Substitutions must be approved by Engineer and IDOT prior to starting the work.

Measurement and Payment

This work will be measured and paid for in accordance with Articles 254.10 and 254.11 of the Standard Specifications at the contract unit price per unit for PERENNIAL PLANTS of the type specified and at the contract unit price per acre for PRAIRIE SEEDING (SPECIAL).

STORM SEWERS, WATER MAIN QUALITY PIPE

Description

This item is intended to satisfy the EPA requirements for horizontal and vertical separation of sewer and water mains outlined in Section 41 of the "Standard Specifications for Water and Sewer Main Construction in Illinois." This work shall consist of constructing storm sewers of the required inside diameter with the necessary fittings or joints in accordance with Section 550 of the Standard Specifications and the following additions or exceptions.

Materials

The materials allowed for the water main quality storm sewer pipe shall be a reinforced concrete pressure pipe or a ductile iron pipe of the size and type indicated on the plans. The materials shall be in accordance with Articles 40-2.01, 40-2.02 and 40-2.05A of the "Standard Specifications for Water and Sewer Main Construction in Illinois". Joints between different pipe material types shall be water tight and made with concrete collars as detailed on the plans and as approved by the Engineer. The water main quality pipe joints shall be of the type approved by the Illinois Environmental Protection Agency for storm sewer lines crossing above water mains.

Measurement and Payment

This work will be measured and paid for at the contract unit price per foot for STORM SEWERS, WATER MAIN QUALITY PIPE of the type and size indicated, which price shall include labor, equipment and materials required, except for the concrete collars. The concrete collars will be paid for as specified herein. The pipe types shown on the plans refer to the fill heights over the pipe as indicated in Article 550.03 of the Standard Specifications.

X0322630 CONCRETE ENCASEMENTS

Description

This work shall consist of constructing concrete encasements around sanitary sewers to protect the pipes from damage or collapsing at the location shown on the plans. The encasements shall be constructed as shown on the detail in the plans and as directed by the Engineer. The concrete for the encasement shall be class SI in accordance with Section 1020 of the Standard Specifications. The reinforcement bars shall be in accordance with Article 1006.10 of the Standard Specifications. The excavated area shall be backfilled with earth or controlled low-strength material as shown on the detail.

Measurement and Payment

This work will be measured and paid for at the contract unit price each for CONCRETE ENCASEMENTS, which price shall include all labor, equipment, concrete, reinforcement bars, excavating and backfilling with earth. Controlled low-strength material will be paid for separately as specified herein.

X0350810 BOLLARD REMOVAL

Description

This work shall consist of the removal of a bollard at the location shown in the plans or as directed by the Engineer. The bollard and any foundation shall be completely removed and disposed of off the site. The excavated area shall be backfilled with earth material.

Measurement and Payment

This work will be paid for at the contract unit price each for BOLLARD REMOVAL, which price shall include payment for all labor and equipment required for the satisfactory removal and disposal of the existing bollard and foundation and backfilling the resultant excavation.

X0932150 CURB AND GUTTER OUTLET, SPECIAL

Description

This work shall consist of constructing concrete curb and gutter outlets at locations shown on the plans and in accordance with the detail shown in the plans. The work shall be in accordance with the applicable Articles of Section 606 of the Standard Specifications.

Measurement and Payment

The cost of constructing the curb and gutter outlets as shown on the plans will be paid for at the contract unit price each for CURB AND GUTTER OUTLET, SPECIAL. The price shall include all labor and materials including concrete, reinforcement bars, curbs and variable widths and thicknesses of the outlet.

X6020074 INLETS, TYPE A, TYPE 3V FRAME AND GRATE

Description

This work shall consist of constructing inlets with Type 3V frames and Grates at the locations shown on the plans and as directed by the Engineer. The work shall be done in accordance with Section 602 of the Standard Specifications and the details of Highway Standard Drawings 602301 and 604011.

Measurement and Payment

This work will be paid for at the contract unit price each for INLETS, TYPE A, TYPE 3V FRAME AND GRATE, which price shall include all work as specified herein.

X7015005 CHANGEABLE MESSAGE SIGN

Description

Portable changeable message signs shall be erected at locations shown on the Stage Construction and Maintenance of Traffic Plan five (5) days prior to the start of construction operations and shall remain until two (2) days after the road is closed to forewarn motorists of the impending construction. The work shall be performed in accordance with Section 701 of the Standard Specifications except the reference to the basis of payment shall be deleted. The signs shall remain in

place and operational until such time that the traffic control devices are in place for each stage. The sign message will be provided by the Engineer.

Measurement and Payment

The furnishing, placing, and maintaining of each portable message sign shall be paid for at the contract unit price per calendar day for CHANGEABLE MESSAGE SIGN. Any portion of one calendar day during which the sign is operated as directed by the Engineer shall be paid as one full calendar day”.

X7240600 REMOVE AND RE-ERECT EXISTING SIGN

Description

This work shall consist of the removal, storage and re-erection of existing signs at the locations shown on the plans and as directed by the Engineer. The existing signs and posts shall be removed and stored so as to prevent damage to the materials except for any concrete footings that may be present, which will not be salvaged. Any signs or posts damaged by the Contractor shall be replaced at his/her expense. The resultant voids at the sign post locations shall be backfilled with controlled low-strength material. The signs shall be re-erected to a proper mounting height as directed by the Engineer. New concrete bases shall be constructed to support the posts and shall be a minimum of 12 inches in diameter and 24 inches deep.

Measurement and Payment

This work will be measured for payment at the contract unit price each for REMOVE AND RE-ERECT EXISTING SIGN. The price shall be considered payment in full for all materials, labor and equipment to perform the work including constructing the concrete bases and backfilling holes with controlled low-strength material.

XX002093 REMOVAL OF EXISTING RIPRAP

Description

This work shall consist of the removal of riprap at the locations shown in the plans and as directed by the Engineer. The riprap material including filter fabric and concrete grout shall be completely removed and disposed of off the site. The excavated area shall be backfilled with earth material.

Measurement and Payment

The surface area of the riprap shall be measured in place and the area computed in square yards. Buried anchor walls will not be measured for payment. This work will be paid for at the contract unit price per square yard for REMOVAL OF EXISTING RIPRAP, which price shall include payment for all labor and equipment required for the satisfactory removal and disposal of all materials and backfilling the resultant excavation.

XX006582 BRICK SIGN AND CONCRETE FOUNDATION REMOVAL

Description

This work shall consist of the complete removal and disposal of two existing brick signs including concrete and masonry foundations, and appurtenances at the locations shown on the plans and as directed by the Engineer. Materials shall be disposed of by the Contractor in accordance with Article 202.03 of the Standard Specifications. The area shall be backfilled with earth material and compacted in 8-inch lifts to match the surrounding ground surface. The excavated areas that are within two feet of proposed paved areas shall be backfilled with controlled low-strength material as directed by the Engineer. The Contractor will be responsible for inspecting the signs and foundations to familiarize himself with the work to be done. The Contractor will also be responsible for determining if there is electric service to the signs and shall coordinate the removal of the electric lines with the sign owner and the utility company.

Measurement and Payment

This work will be measured for payment at the contract unit price lump sum for BRICK SIGN AND CONCRETE FOUNDATION REMOVAL, which price shall include the cost of removal and disposing of the signs, foundations, utilities and appurtenances and backfilling with earth. The two signs will not be paid for separately, but shall be combined in the lump sum price. Controlled low-strength material if required will be paid for separately.

Z0022800 FENCE REMOVAL

Description

This work shall consist of the removal and disposal of the existing fences of various types at the locations shown on the plans. The existing fences shall be satisfactorily disposed of by the Contractor in accordance with Article 202.03. The resultant voids at the fence post locations that are within proposed paved areas shall be backfilled with controlled low-strength material as directed by the Engineer. The Contractor will be responsible for constructing a suitable termination post and if necessary a concrete base for the part of the fence that is to remain in place. The end posts may be of salvaged materials from the fence removal or new materials. The materials and methods for constructing the fence terminations shall meet the approval of the Engineer.

Measurement and Payment

This work will be measured for payment at the contract unit price per foot for FENCE REMOVAL, which price shall be considered payment in full for all materials, labor and equipment to perform the work including constructing the termination posts, concrete bases and backfilling holes with controlled low-strength material.

Z0023900 FILLING EXISTING WELLS

Description

This work shall consist of sealing the existing water well at the location shown on the plans and as directed by the Engineer. The work shall be done in accordance with Section 920.120 of the Illinois

Water Well Construction Code of the Illinois Department of Public Health and the procedures for sealing drilled and dug wells set forth by the Champaign County Public Health Department. The Contractor will be responsible for notifying the Champaign County Public Health Department a minimum of 48 hours prior to starting the sealing of the well. Only companies licensed by the Champaign County Public Health Department will be allowed to seal the wells. A list of the licensed companies can be obtained from the Health Department. The form (IL 482-0620) for abandoning water wells must be filled out and submitted to the Health Department along with any fees prior to the start of work.

The wells shall be sealed by first removing pumps, water lines and appurtenances. The casing pipe and any other slabs, covers or appurtenances shall be removed to a minimum of 2 feet below the existing ground level or the proposed sub-grade level, whichever is lowest. The materials removed shall be satisfactorily disposed of by the Contractor in accordance with Article 202.03. The well shall be chlorinated by pouring in 2 gallons of household bleach and filling the well with pea gravel or limestone chips to within 20 feet of the surface. The remainder of the well shall be filled with cement or bentonite. The area shall be backfilled with earth material and compacted in 8-inch lifts to match the surrounding ground surface. The Contractor will be responsible for inspecting the wells to familiarize himself with the work to be done.

Measurement and Payment

This work will be measured for payment at the contract unit price each for FILLING EXISTING WELLS, which price shall include the cost of all work described herein including permit fees and backfilling.

Z0051500 REMOVING AND RESETTING STREET SIGNS

Description

This work shall consist of the removal, storage and re-erection of the existing street name signs at the locations shown on the plans and as directed by the Engineer. The existing signs and posts shall be removed and stored so as to prevent damage to the materials except for the concrete footings, which will not be salvaged. Any signs or posts damaged by the Contractor shall be replaced at his/her expense. The resultant voids at the sign post locations shall be backfilled with controlled low-strength material. The signs shall be re-erected to a proper mounting height as directed by the Engineer. New concrete bases shall be constructed to support the posts and shall be a minimum of 12 inches in diameter and 24 inches deep.

Measurement and Payment

This work will be measured for payment at the contract unit price each for REMOVING AND RESETTING STREET SIGNS. The price shall be considered payment in full for all materials, labor and equipment to perform this work including constructing the concrete bases and placing controlled low-strength material in the holes.

Z0059600 SANITARY SEWER, TYPE 2 8”

Description

This work shall consist of constructing a sanitary sewer of the required inside diameter with the necessary fittings through a conflict manhole at locations shown on the plans. All construction related to the installation of the sanitary sewers shall be in accordance with the detail “Manhole, Special” in the plans and the following sections from the "Standard Specifications for Water and Sewer Main Construction in Illinois", current edition.

- a. Sanitary sewer pipe materials shall be ductile iron pipe conforming to ANSI A 21.51 (AWWA C-151) with a class thickness per AWWA C-150. Ductile iron pipe shall have a standard cement mortar lining and shall be tar (seal) coated to conform to AWWA C-104.
- b. Ductile iron pipe joints shall be mechanical joints and conform to AWWA C-110 with tar (seal) coating conforming to AWWA C-104. Mission Flexible Couplings or approved equal shall be used to connect the proposed pipe to the existing pipe.

Construction Requirements

The existing sewer pipe shall be cut and removed to provide a smooth vertical end. The proposed pipe shall be placed through the manhole and connected to the existing pipe with flexible couplings. The openings in the manhole around the pipe shall be sealed to prevent leakage as directed by the Engineer. Bedding material under the pipe will not be required. The entire excavation shall be backfilled with controlled low-strength material as shown on the detail in the plans.

Measurement and Payment

This work will be measured for payment at the contract unit price per foot for SANITARY SEWER, TYPE 2 8”. The price shall include the cost of excavating, removing the existing pipe, installing the pipe, fittings, and couplings. The pipe type refers to the fill height over the pipe as indicated in Article 550.03 of the Standard Specifications. Controlled low-strength material will be paid for separately as specified herein.

Z0065900 SPECIAL DITCH CHECKS

Description

This work shall consist of constructing earth ditch checks at locations shown on the plans and in accordance the detail in the plans. The work shall be in accordance with the applicable Articles of Sections 205 of the Standard Specifications.

Measurement and Payment

This work will be measured and paid for at the contract unit price each for SPECIAL DITCH CHECKS, which price shall include furnishing, placing and compacting the earth material. The pipe culverts and end sections will be paid for separately.

PRECAST CONCRETE BOX CULVERT 10' x 2', SPECIAL

Description

This work shall consist of furnishing and installing precast concrete box culvert sections at the locations shown on the plans and as shown on the detail in the plans. The work shall be in accordance with the applicable Articles of Section 540 of the Standard Specifications.

Construction Requirements

The precast concrete box culvert sections shall be fabricated with waterway opening dimensions as shown on the detail. Access openings with Type 1 Frames and Grates and concrete barrel sections shall be provided on the top of the precast sections at locations shown on the detail. The exact length of the culvert sections shall be determined by the manufacturer. The exact stations and offsets shown on the plans for the ends and bends of the culvert and the access openings may be slightly adjusted with the approval of the Engineer and shall be shown on the shop drawings. Shop drawings shall be submitted in accordance with Article 540.06 of the Standard Specifications and must be sealed by an Illinois Licensed Structural Engineer.

Measurement and Payment

This work will be measured for payment at the contract unit price per foot for PRECAST CONCRETE BOX CULVERT 10' x 2', SPECIAL. The price shall be considered payment in full for all labor, equipment, and materials required including excavation, bedding material, culvert sections, concrete, reinforcement bars, frames and grates, barrel sections and backfilling with earth.

SALVAGED AGGREGATE MATERIAL 8"

SALVAGED AGGREGATE MATERIAL 12"

SALVAGED AGGREGATE MATERIAL 24"

Description

This work shall consist of transporting, spreading, grading and compacting aggregate material salvaged from the Pavement Removal (Special) operation as directed by the Engineer. The salvaged material shall be used as a substitute for the Lime Modified Soil, Aggregate Base Course for temporary pavements or transition pavements or Aggregate for Temporary Access. This work shall be in accordance with the applicable Articles of Sections 301 and 311 of the Standard Specifications.

Construction Requirements

The salvaged aggregate material shall be no larger than 1 1/2" diameter and shall be free of contamination with earth or other foreign materials. Any excess or unsuitable materials determined not to be usable by the Engineer shall be disposed of off-site by the Contractor. The material shall be placed and compacted in lifts with a maximum lift thickness of 6 inches. A vibratory roller meeting the requirements of Article 1101.01 of the Standard Specifications shall be used to compact each lift of material to the satisfaction of the Engineer. When the salvaged material is used as a substitute for lime modified soil the material shall be placed to the full thickness specified and shall not be placed in layers with the lime modified soil.

Measurement and Payment

This work will be measured and paid for at the contract unit price per square yard for SALVAGED AGGREGATE MATERIAL of the thickness specified. The price shall include transporting, spreading, grading and compacting the material. The quantities for the materials that are being substituted for shall be reduced by an equal amount. The Engineer may reduce or delete any of these pay items, in which case no additional payment will be made to the Contractor.

FLEXIBLE POST BARRICADES

Description

This work shall consist of the construction of flexible post barricades at the locations shown on the plans in accordance with the details shown on the plans and these special provisions.

Materials

The flexible post barricades shall be part number SMFP36E manufactured by Barco Products, 11 N. Batavia Avenue, Batavia, Illinois, 60510, telephone number 800-338-2697 or approved equal. The posts shall be polyethylene and shall be surface mounted with a two part epoxy. The posts shall be 2.25 inch diameter and 36 inches tall.

Construction Method

The post base shall be mounted on a clean surface per the manufacture's recommendations.

Measurement and Payment

This work will be paid for at the contract unit price per each for FLEXIBLE POST BARRICADES, which price shall include all materials, equipment and labor necessary to complete the work.

TRAFFIC SIGNALS AND LIGHTING

TRAFFIC SIGNAL EQUIPMENT

All traffic signal control equipment at the intersection of Curtis Road and Mattis Avenue shall be EAGLE brand equipment. All traffic signal control equipment at the intersection of Curtis Road and Prospect Avenue shall be EAGLE brand equipment in accordance with the proprietary letter between the State of Illinois and the Village of Savoy, dated February 22, 1995.

WIRE AND CABLE

The following modifications apply only to wire and cable for roadway lighting.

Revise the second sentence of the first paragraph of Article 1066.02(a) to read:

“The cable shall be rated at a minimum of 90°C dry and 75°C wet and shall be suitable for installation in wet and dry locations, and shall be resistant to oils and chemicals.”

Revise the second paragraph of Article 1066.02(b) to read:

“Uncoated conductors shall be according to ASTM B3, ICEA S-95-658/NEMA WC70, and UL Standard 44. Coated conductors shall be according to ASTM B 33, ASTM B 8, ICEA S-95-658/NEMA WC70 and UL Standard 44.”

Revise the third paragraph of Article 1066.02(b) to read:

“All conductors shall be stranded. Stranding meeting ASTM B 8, ICEA S-95-658/NEMA WC70 and UL Standard 44. Uncoated conductors meeting ASTM B 3, ICEA S-95-658/NEMA WC70 and UL Standard 44.”

Revise the first sentence of Article 1066.03(a)(1) to read:

“General. Cable insulation designated as XLP shall incorporate cross-linked polyethylene (XLP) insulation as specified and shall meet or exceed the requirements of ICEA S-95-658, NEMA WC70, U.L. Standard 44.”

Add the following to Article 1066.03(a)(1) of the Standard Specifications:

“The cable shall be rated 600 volts and shall be UL Listed Type RHH/RHW/USE.”

Revise Article 1066.08 to read:

“Electrical Tape. Electrical tape shall be all weather vinyl plastic tape resistant to abrasion, puncture, flame, oil, acids, alkalies, and weathering, conforming to Federal Specification MIL-I-24391, ASTM D1000 and shall be listed under UL 510 Standard. Thickness shall not be less than 0.215 mm (8.5 mils) and width shall not be less than 20 mm (3/4-inch).”

80400105 ELECTRIC SERVICE INSTALLATION, SPECIAL

Description

Electric service installation shall be performed in accordance with Section 804 of the Standard Specifications except as modified herein and as shown on the plans.

Materials

The Contractor shall provide a meter socket in accordance with Ameren IP requirements. Service size shall be as shown on plans.

The Contractor shall provide (2) 3" Schedule 40 PVC conduits from the meter socket to utility pole as shown on the plans. The Contractor shall stub the conduits above grade and install rigid steel conduit and weatherhead up pole to transformer. Any exposed conduits above grade shall be rigid galvanized steel. All elbows in service conduits shall be long radius, rigid galvanized steel.

The meter socket shall be mounted to the controller cabinet as shown on the plans. The Contractor shall ground and bond the service in accordance with the NEC. Minimum ground rod size shall be $\frac{3}{4}"\text{Ø} \times 10'$. The ground rod shall be located adjacent to the concrete pad, below the meter socket. Provide a 1" rigid galvanized steel conduit with grounding conductor from the meter socket to the ground rod. The ground conductor shall be exothermically welded to the ground rod.

Service conductors shall be type THHN/THWN, sized as indicated in the plans, and shall be of sufficient length to extend up the utility pole to connect to the Ameren IP transformers. The Contractor shall be responsible for coordinating all requirements for the service installation with Ameren IP.

The Contractor shall coordinate all requirements and fees for the electric service installation with Ameren IP. No additional compensation will be allowed for work required for the electric service or utility connection fees, even though not explicitly shown on the Drawings, or specified herein.

Method of Measurement

Electric Service Installation will be counted as each. Service conduits, meter socket, ground rods, service conductors, and other equipment required by the utility company shall be included in this pay item.

Basis of Payment

This work will be paid for at the contract unit price each for ELECTRIC SERVICE INSTALLATION, SPECIAL, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

81021550 CONDUIT, AUGERED 2" DIA., PVC
81021590 CONDUIT, AUGERED 4" DIA., PVC
81021600 CONDUIT, AUGERED 5" DIA., PVC

Description

This work shall consist of furnishing and installing PVC conduit of the size specified in accordance with Section 810 of the Standard Specifications and the following additions or exceptions.

All conduits augered below pavement shall be Schedule 80 PVC.

The term augered shall include both the pushed and bored method of installing the conduit. Because of the differences in equipment and techniques, the Contractor may use either method to install the conduit for the term augered.

If the Contractor chooses to install conduit runs designated as trenched in the plans by augering, payment shall be at the contract unit price per foot for Conduit in Trench of the diameter specified along with the Trench and Backfill for this work.

The substitution of galvanized steel conduit for PVC conduit is permitted with no change in compensation.

Basis of Payment

This work will be paid for at the contract unit price per foot for CONDUIT, AUGERED, PVC, of the diameter specified, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

81306500 REMOVE EXISTING JUNCTION BOX

Description

This work shall consist of the removal and disposal of existing junction boxes as specified herein.

The junction box shall be removed in its entirety. The void caused by the removal of the junction box shall be backfilled in accordance with Article 819.04 of the Standard Specifications. The junction box that is removed shall not be reused, shall become the property of the Contractor, and shall be disposed of outside the right-of-way in accordance with Article 202.03 of the Standard Specifications.

Basis of Payment

This work will be paid for at the contract unit price each for REMOVE EXISTING JUNCTION BOX, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

81400700 HANDHOLE, PORTLAND CEMENT CONCRETE
81400720 DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE
(City of Champaign)

Description

This work shall consist of furnishing and installing precast concrete handholes or double handholes in accordance with Section 814 of the Standard Specifications and the following additions or exceptions.

Composite concrete handholes and double handholes are not allowed.

Basis of Payment

This work will be paid for at the contract unit price each for HANDHOLE, PORTLAND CEMENT CONCRETE or DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE, which prices shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

81400730 HANDHOLE, COMPOSITE CONCRETE
81400740 DOUBLE HANDHOLE, COMPOSITE CONCRETE
(Village of Savoy)

Description

This work shall consist of furnishing and installing composite concrete handholes or double handholes in accordance with Section 814 of the Standard Specifications and the following additions or exceptions.

The handhole or double handhole shall have flared walls.

Basis of Payment

This work will be paid for at the contract unit price each for HANDHOLE, PORTLAND CEMENT CONCRETE or DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE, which prices shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

81500120 GULFBOX JUNCTION, COMPOSITE CONCRETE

Description

This work shall consist of furnishing and installing a composite concrete gulfbox junction in accordance with Section 815 of the Standard Specifications and the following additions or exceptions.

The gulfbox junction shall have flared walls.

Basis of Payment

This work will be paid for at the contract unit price each for GULFBOX JUNCTION, COMPOSITE CONCRETE, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

81900200 TRENCH AND BACKFILL FOR ELECTRICAL WORK
81900300 TRENCH AND BACKFILL WITH SCREENINGS OR SAND

Description

This work shall consist of constructing and backfilling a trench for conduit in accordance with Section 819 of the Standard Specifications and the following additions or exceptions.

Trenches for roadway lighting conduit shall have a minimum depth of 30 inches (750 mm) or as otherwise indicated on the plans or directed by the Engineer.

Underground cable marking tape shall have a reinforced metallic detection strip.

Basis of Payment

This work will be paid for at the contract unit price per foot for TRENCH AND BACKFILL FOR ELECTRICAL WORK or TRENCH AND BACKFILL WITH SCREENINGS OR SAND, which prices shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

For conduit installed in trenches that were excavated for other items of proposed work, constructing and backfilling the trenches will not be measured for payment under this pay item as determined by the Engineer.

82102250 LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT
(Village of Savoy)

Description

This work shall consist of furnishing and installing a luminaire in accordance with Section 821 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

Materials

The full cut-off luminaire shall have a 250 watt high pressure sodium lamp and an M-C-III lighting distribution. It shall not have an individual photocell. The luminaire shall have the manufacturer's standard gray finish.

The luminaire shall be the DuraStar Series 30 manufactured by American Electric Lighting, catalog number 30-25S-RH-240-R3-FG, or approved equivalent. The ballast shall be wired for 240 volts.

Basis of Payment

This work will be paid for at the contract unit price each for LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

83007300 LIGHT POLE, ALUMINUM, 35 FT. M.H., 8 FT. MAST ARM
LIGHT POLE, ALUMINUM, 35 FT. M.H., 2-8 FT. MAST ARMS

(Village of Savoy)

Description

This work shall consist of furnishing and installing mast arm light poles and accessories as specified herein and as shown in the plans. This work shall be performed in accordance with Section 830 of the Standard Specifications, as detailed in the Plans, and as directed by the Engineer.

Materials

The mast arm light pole shall be either an 8 foot single side mast arm or double side (two mast arms 180 degrees apart) mounted on a round spun aluminum pole with a mounting height of 35 feet. The mast arm, aluminum pole and all mounting hardware shall have a natural aluminum finish. Each pole shall have a reinforced, oval shaped, flush handhole opening with a handhole cover having the same finish as the pole. Each pole shall have a base flange for the attachment of the shaft to the foundation. The base flange shall have a bolt circle diameter 14.25 to 15 inches and four anchor bolt covers of cast aluminum with stainless steel screws for their attachment. The light pole manufacturer shall be Valmont, No. 3408-60108T4-DNA, or approved equivalent. The mast arm manufacturer shall be Valmont, No. MA-0832S-DNA, or approved equivalent. Provide a sticker permanently attached to pole below handhole indicating the lighting controller, circuit, and pole number as shown on the plans. After assembly a stainless steel mesh shall be placed to enclose the void between the foundation and the pole base as specified in Article 877.03 of the Standard Specifications.

Basis of Payment

This work will be paid for at the contract unit price each for LIGHT POLE, ALUMINUM, 35 FT. M.H., 8 FT. MAST ARM, of the number of mast arms specified, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

83008300 LIGHT POLE, ALUMINUM, 40 FT. M.H., 8 FT. MAST ARM

(City of Champaign)

Description

This work shall consist of furnishing and installing truss arm light poles and accessories as specified herein and as shown in the plans. This work shall be performed in accordance with Section 830 of the Standard Specifications, as detailed in the Plans, and as directed by the Engineer.

Materials

The truss arm light pole shall be an 8 foot single side truss arm mounted on a round spun aluminum pole with a mounting height of 40 feet. The truss arm, aluminum pole and all mounting hardware shall both have a factory applied powder coating, black in color. Each pole shall have a reinforced, oval shaped, flush handhole opening with a handhole cover having the same finish as the pole. Each pole shall have a base flange for the attachment of the shaft to the foundation. The base flange shall have a bolt circle diameter 14.25 to 15 inches and four anchor bolt covers of cast aluminum with stainless steel screws for their attachment. The light pole manufacturer shall be Valmont, No. 3708-

60108T4A, or approved equivalent. The truss arm manufacturer shall be Valmont, No. 1TA-0834C60ZA, or approved equivalent. Provide a sticker permanently attached to pole below handhole indicating the lighting controller, circuit, and pole number as shown on the plans. After assembly a stainless steel mesh shall be placed to enclose the void between the foundation and the pole base as specified in Article 877.03 of the Standard Specifications.

Basis of Payment

This work will be paid for at the contract unit price each for LIGHT POLE, ALUMINUM, 40 FT. M.H., 8 FT. MAST ARM, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

83600405 POLE FOUNDATION, STEEL

Description

This work shall consist of furnishing and installing steel light pole foundation as shown on the detail in the plans. The work shall be in accordance with the applicable Articles of Section 836 of the Standard Specifications, as detailed in the plans, and as directed by the Engineer.

Materials

The steel foundation shall be the type manufactured by A. B. Chance Catalog # SA112-0567 or approved equivalent. Submit catalog cuts as shop drawings for approval. After assembly a stainless steel mesh shall be placed to enclose the void between the foundation and the pole base as specified in Article 877.03 of the Standard Specifications.

Basis of Payment

This work will be paid for at the contract unit price each for POLE FOUNDATION, STEEL, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

84200805 POLE FOUNDATION REMOVED, METAL

Description

This work shall consist of the removal and disposal of existing steel light pole foundations in accordance with Section 842 of the Standard Specifications and the following additions or exceptions.

The steel light pole foundation that is removed shall not be reused.

Basis of Payment

This work will be paid for at the contract unit price each for POLE FOUNDATION REMOVED, METAL, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

85700200 FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
(Village of Savoy)

Description

This work shall consist of furnishing and installing a full-actuated controller in a controller cabinet in accordance with Section 857 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

The controller shall be the EAGLE EPAC M40 with Port 3 FSK Modem.

The anti-backup feature for controller programming required in Article 1073.01(c) of the Standard Specifications shall have the following added to the definition shown in Article 1073.01(a): “The components used to accomplish this feature shall be hardwired on the controller cabinet back panel and labeled for identification.”

The Type IV controller cabinet shall be the EAGLE Size P base mounted cabinet. The controller cabinet shall be constructed of unpainted aluminum.

The controller cabinet shall have a detector test panel installed properly wired to the back panel and located on the interior of the service door. It shall be possible to register an input call by means of one 3 position switch per each phase. The switch positions shall be off, on, and test. The test position shall be a momentary closure position which returns to the on position upon release. The test position shall allow a call to be manually placed to the controller for that phase. The call will be serviced as an actual call from a field detector. Each switch shall be properly identified per phase.

The controller cabinet shall contain a cabinet detector rack and power supply for the rack-mounted inductive loop detectors.

The controller cabinet shall contain separate ground and neutral buses. The neutral bus shall be electrically isolated from ground. The controller cabinet shall be bonded to the equipment grounding conductor in accordance with the NEC and the NESC.

The controller cabinet shall contain an engraved laminated plastic nameplate with the following message: “CAUTION - TRAFFIC SIGNAL MAST ARM POLES HAVE TWO SOURCES OF POWER. LUMINAIRES ON TRAFFIC SIGNAL MAST ARM POLES ARE FED FROM THE LIGHTING CONTROLLER CABINET.” The nameplate shall be red with white letters, and the letters shall be ¼” high. The nameplate shall be mounted with corrosion-resistant screws in a prominent location inside the controller cabinet.

The controller cabinet shall contain a rack-mountable, NEMA-approved uninterruptable power supply (UPS) manufactured by Alpha Technologies or approved equivalent. The UPS shall be in accordance with Section 862 of the Standard Specifications and shall provide a minimum of two hours of full run-time operation.

The battery cabinet for the UPS shall be mounted as shown in the plans and as specified herein. The

battery cabinet shall be installed on the controller cabinet foundation and bolted directly to the left side of the controller cabinet with at least four bolts. There shall not be a gap between the battery cabinet and the controller cabinet. The cables shall be routed through the sides of the cabinets, with the holes in the cabinets protected with grommets. Only the batteries shall be housed in the battery cabinet; all other UPS equipment shall be housed in the controller cabinet.

The UPS will not be paid for separately and shall be included in the cost of the full-actuated controller and cabinet.

Basis of Payment

This work will be paid for at the contract unit price each for FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

85700205 FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
(City of Champaign)

Description

This work shall consist of furnishing and installing a full-actuated controller in a controller cabinet in accordance with Section 857 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

The controller shall be the EAGLE EPAC M52 TS 2, Type 2 Controller with Port 3 FSK Modem, model number EPAC3608M52.

The Type IV controller cabinet shall be the EAGLE Size P base mounted cabinet. The controller cabinet shall be constructed of unpainted aluminum.

The controller cabinet shall contain an Eaton Innovative Technology HS-P-SP-120-30-RJ or approved equivalent surge protector. The controller cabinet shall contain an EDI MMU-16E or approved equivalent TS 2 malfunction management unit, TS 1 load switches, a TS 1 panel and terminal facilities, and a TS 1 flasher unit and flasher relays.

The controller cabinet shall contain two 8-position 2-channel TS 2 cabinet detector racks, two bus interface units, and one cabinet power supply for the wireless vehicle detection system.

The controller cabinet shall contain separate ground and neutral buses. The neutral bus shall be electrically isolated from ground. The controller cabinet shall be bonded to the equipment grounding conductor in accordance with the NEC and the NESC.

The controller cabinet shall contain an engraved laminated plastic nameplate with the following message: "CAUTION - TRAFFIC SIGNAL MAST ARM POLES HAVE TWO SOURCES OF POWER. LUMINAIRES AND INTERNALLY ILLUMINATED STREET NAME SIGNS ON TRAFFIC SIGNAL MAST ARM POLES ARE FED FROM THE LIGHTING CONTROLLER

CABINET.” The nameplate shall be red with white letters, and the letters shall be ¼” high. The nameplate shall be mounted with corrosion-resistant screws in a prominent location inside the controller cabinet.

The controller cabinet shall contain a rack-mountable, NEMA-approved uninterruptable power supply (UPS) manufactured by Alpha Technologies or approved equivalent. The UPS shall be in accordance with Section 862 of the Standard Specifications and shall provide a minimum of two hours of full run-time operation.

The battery cabinet for the UPS shall be mounted as shown in the plans and as specified herein. The battery cabinet shall be installed on the controller cabinet foundation and bolted directly to the left side of the controller cabinet with at least four bolts. There shall not be a gap between the battery cabinet and the controller cabinet. The cables shall be routed through the sides of the cabinets, with the holes in the cabinets protected with grommets. Only the batteries shall be housed in the battery cabinet; all other UPS equipment shall be housed in the controller cabinet.

The UPS will not be paid for separately and shall be included in the cost of the full-actuated controller and cabinet.

Basis of Payment

This work will be paid for at the contract unit price each for FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

87502640 TRAFFIC SIGNAL POST, ALUMINUM 10 FT.

87502700 TRAFFIC SIGNAL POST, ALUMINUM 16 FT.

(Village of Savoy)

Description

This work shall consist of furnishing and installing a traffic signal post in accordance with Section 875 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

The post and base shall be made of aluminum. The post shall be furnished with a terminal compartment for two way, bracket mounted signal heads or an aluminum pole cap for one way, bracket mounted signal heads. The base shall be furnished with an aluminum reinforcing collar and a grounding lug suitable for connecting a copper equipment grounding conductor. The post, terminal compartment, cap, base, and collar shall be unpainted.

The Contractor shall apply an anti-seize paste compound on all nuts and bolts prior to assembly.

Basis of Payment

This work will be paid for at the contract unit price each for TRAFFIC SIGNAL POST, ALUMINUM, of the length specified, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

87600200 PEDESTRIAN PUSH-BUTTON POST, TYPE II

(City of Champaign)

Description

This work shall consist of constructing a concrete foundation and furnishing and installing a pedestrian push-button post in accordance with Section 876 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

The pedestrian push-button post shall be a 48-inch tall, 4-inch square steel post with a 10-inch multi-directional slip base manufactured by Xcessories Squared or approved equivalent, part number SB10-400PPBP-B. The post and base shall be finished with a standard black finish.

The Contractor shall apply an anti-seize paste compound on all nuts and bolts prior to assembly.

The foundation shall be made of Class SI concrete in accordance with Section 1020 of the Standard Specifications. The foundation shall have a minimum diameter of 12 inches and a minimum depth of 30 inches. The concrete foundation shall be included in the cost of the pedestrian push-button post.

Basis of Payment

This work will be paid for at the contract unit price each for PEDESTRIAN PUSH-BUTTON POST, TYPE II, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

87701230 STEEL MAST ARM ASSEMBLY AND POLE, 38 FT. (SPECIAL)

87701280 STEEL MAST ARM ASSEMBLY AND POLE, 48 FT. (SPECIAL)

(City of Champaign)

Description

This work shall consist of furnishing and installing a steel mast arm assembly and pole in accordance with Section 877 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

The steel mast arm assembly and pole manufacturer shall be Valmont or approved equivalent. The pole, base, pole cap, and signal arm shall have a powder coated black paint finish over galvanized steel. The stainless steel mesh and band at the pole base shall be painted black.

The Contractor shall apply an anti-seize paste compound on all nuts and bolts prior to assembly.

Mast Arm Dampening Device

A 72" x 36" dampening device shall be furnished and installed with each signal mast arm in accordance with the details on the plans. The dampening device shall be installed equidistant between the two outermost signal heads. Mast arm dampening devices shall be installed on all mast

arms that are 40 feet in length or more.

The dampening device shall consist of a 72" x 36" Type 1 unpainted aluminum sign stock mounted horizontally on top of the mast arm with the 36" length perpendicular to the arm.

Furnishing and installing the mast arm dampening device shall be included in the cost of the respective mast arm pay item and no additional compensation will be allowed.

Basis of Payment

This work will be paid for at the contract unit price each for STEEL MAST ARM ASSEMBLY AND POLE (SPECIAL), of the signal arm length specified, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

- 87702920 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.**
- 87702940 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.**
- 87702960 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.**
- 87702970 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.**

(Village of Savoy)

Description

This work shall consist of furnishing and installing a steel combination mast arm assembly and pole in accordance with Section 877 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

The steel combination mast arm assembly and pole manufacturer shall be Valmont or approved equivalent. The pole, base, pole cap, signal arm, and luminaire arm shall be unpainted galvanized steel. The luminaire mounting height as measured from the pole base shall be 35 feet. The luminaire arm length shall be 15 feet.

The Contractor shall apply an anti-seize paste compound on all nuts and bolts prior to assembly.

Mast Arm Dampening Device

A 72" x 36" dampening device shall be furnished and installed with each signal mast arm in accordance with the details on the plans. The dampening device shall be installed equidistant between the two outermost signal heads. Mast arm dampening devices shall be installed on all mast arms.

The dampening device shall consist of a 72" x 36" Type 1 unpainted aluminum sign stock mounted horizontally on top of the mast arm with the 36" length perpendicular to the arm.

Furnishing and installing the mast arm dampening device shall be included in the cost of the respective mast arm pay item and no additional compensation will be allowed.

Basis of Payment

This work will be paid for at the contract unit price each for STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, of the signal arm length specified, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

87704120 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.
(SPECIAL)

87704180 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.
(SPECIAL)

(City of Champaign)

Description

This work shall consist of furnishing and installing a steel combination mast arm assembly and pole in accordance with Section 877 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

The steel combination mast arm assembly and pole manufacturer shall be Valmont or approved equivalent. The pole, base, pole cap, signal arm, and luminaire arm shall have a powder coated black paint finish over galvanized steel. The stainless steel mesh and band at the pole base shall be painted black. The luminaire mounting height as measured from the pole base shall be 40 feet. The luminaire arm length shall be 15 feet. Brackets at luminaire arm connections shall be drilled and pinned to prevent rotation of the luminaire arm.

The Contractor shall apply an anti-seize paste compound on all nuts and bolts prior to assembly.

Mast Arm Dampening Device

A 72" x 36" dampening device shall be furnished and installed with each signal mast arm in accordance with the details on the plans. The dampening device shall be installed equidistant between the two outermost signal heads. Mast arm dampening devices shall be installed on all mast arms that are 40 feet in length or more.

The dampening device shall consist of a 72" x 36" Type 1 unpainted aluminum sign stock mounted horizontally on top of the mast arm with the 36" length perpendicular to the arm.

Furnishing and installing the mast arm dampening device shall be included in the cost of the respective mast arm pay item and no additional compensation will be allowed.

Basis of Payment

This work will be paid for at the contract unit price each for STEEL COMBINATION MAST ARM ASSEMBLY AND POLE (SPECIAL), of the signal arm length specified, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

87800100 CONCRETE FOUNDATION, TYPE A

Description

This work shall consist of constructing a concrete foundation for a traffic signal post in accordance with Section 878 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

The No. 6 AWG bare, solid copper grounding electrode conductor shall be exothermically welded to the ground rod in the concrete foundation. The exothermic weld shall be included in the cost of the concrete foundation.

Basis of Payment

This work will be paid for at the contract unit price per foot of depth of CONCRETE FOUNDATION, TYPE A, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

87800150 CONCRETE FOUNDATION, TYPE C

(Village of Savoy)

Description

This work shall consist of constructing a concrete foundation for a traffic signal controller base in accordance with Section 878 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

The ground rod for the concrete foundation shall be located in the double handhole rather than in the concrete foundation. A No. 6 AWG bare, solid copper grounding electrode conductor pigtail may be installed for use in splicing the equipment grounding conductors in the double handhole. The grounding electrode conductor pigtail shall be exothermically welded to the ground rod in the double handhole. The grounding electrode conductor pigtail and exothermic weld shall be included in the cost of the concrete foundation.

The 4" gap between the battery cabinet base and the controller cabinet base shall be deleted. The battery cabinet shall be installed on the concrete foundation and bolted directly to the left side of the controller cabinet. The conduit in the concrete foundation from the battery cabinet to the controller cabinet shall be deleted.

Basis of Payment

This work will be paid for at the contract unit price per foot of depth of CONCRETE FOUNDATION, TYPE C, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

87800200 CONCRETE FOUNDATION, TYPE D

(City of Champaign)

Description

This work shall consist of constructing a concrete foundation for a traffic signal controller base in accordance with Section 878 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

The ground rod for the concrete foundation shall be located in the double handhole rather than in the concrete foundation. A No. 6 AWG bare, solid copper grounding electrode conductor pigtail may be installed for use in splicing the equipment grounding conductors in the double handhole. The grounding electrode conductor pigtail shall be exothermically welded to the ground rod in the double handhole. The grounding electrode conductor pigtail and exothermic weld shall be included in the cost of the concrete foundation.

The anchor bolts shall be deleted from the concrete foundation. The controller cabinet shall be mounted to the concrete foundation using 1/4" x 2" Tapcon screws. The battery cabinet shall be installed on the concrete foundation and bolted directly to the left side of the controller cabinet. The battery cabinet shall not be attached to the concrete foundation with Tapcon screws.

A 2" diameter PVC conduit shall be provided in the concrete foundation for future use. The conduit shall extend two feet beyond the concrete foundation and shall be capped below grade. The 2" diameter PVC conduit shall be included in the cost of the concrete foundation.

The concrete foundation shall be wide enough to accommodate the controller cabinet and the battery cabinet. The concrete apron shall match the width of the concrete foundation and shall extend a minimum of 3' beyond the concrete foundation. The concrete apron shall be a minimum of 6" thick. The concrete apron shall be included in the cost of the concrete foundation.

Basis of Payment

This work will be paid for at the contract unit price per foot of depth of CONCRETE FOUNDATION, TYPE D, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

87800415 CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER

Description

This work shall consist of constructing a concrete foundation for a traffic signal mast arm pole in accordance with Section 878 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

The No. 6 AWG bare, solid copper grounding electrode conductor shall be exothermically welded to the ground rod in the concrete foundation. The exothermic weld shall be included in the cost of the concrete foundation.

Basis of Payment

This work will be paid for at the contract unit price per foot of depth of CONCRETE FOUNDATION, TYPE E, 36-INCH DIAMETER, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

88040070 SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED

88040090 SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED

88040150 SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED

88040160 SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED

88040260 SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3-SECTION, 1-5-SECTION, BRACKET MOUNTED

Description

This work shall consist of furnishing and installing a light emitting diode (LED) signal head in accordance with Section 880 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

All circular and arrow LED signal modules shall measure 12” in diameter. The lens for a red or yellow signal module shall be tinted red or yellow. The lens for a green signal module shall be clear.

Intersection of Curtis Road and Mattis Avenue

All signal modules shall be manufactured by Dialight Corporation or GELcore. The polycarbonate signal head shall be black in color. Brackets for mast arm mounted signal heads shall be unpainted. Bracket mounted signal heads shall be mounted with black polycarbonate brackets fastened to the pole or post with 2 inch long hex head stainless steel bolts, 3/8 inch diameter course thread, drilled and tapped, with 2 bolts in the top bracket, 1 bolt in the bottom bracket, and flat washers to hold over the pole plate.

Intersection of Curtis Road and Prospect Avenue

All signal modules shall be manufactured by Dialight Corporation. The polycarbonate signal head shall be yellow in color. Two way, bracket mounted signal heads shall be installed with terminal compartments.

Basis of Payment

This work will be paid for at the contract unit price each for SIGNAL HEAD, POLYCARBONATE, LED, of the number of signal faces, the number of signal sections in each signal face, and the method of mounting specified, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

**88102810 PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE,
BRACKET MOUNTED**

Description

This work shall consist of furnishing and installing a light emitting diode (LED) pedestrian signal head in accordance with Section 881 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

Each directional unit shall consist of one LED pedestrian signal module and one LED countdown pedestrian signal module. The nominal dimensions of each module shall be 12" by 12" as detailed in the plans.

The pedestrian signal module shall have the two-symbol overlay configuration. The symbols for the walking person ("walk") and the upraised hand ("don't walk") shall be full symbols.

Intersection of Curtis Road and Mattis Avenue

All pedestrian signal modules shall be manufactured by Dialight Corporation or GELcore. The polycarbonate pedestrian signal head shall be black in color. Pedestrian signal heads shall be mounted with black polycarbonate brackets fastened to the pole or post with 2 inch long hex head stainless steel bolts, 3/8 inch diameter coarse thread, drilled and tapped, with 2 bolts in the top bracket, 1 bolt in the bottom bracket, and flat washers to hold over the pole plate.

Intersection of Curtis Road and Prospect Avenue

All pedestrian signal modules shall be manufactured by Dialight Corporation. The polycarbonate pedestrian signal head shall be yellow in color.

Basis of Payment

This work will be paid for at the contract unit price each for PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

88500100 INDUCTIVE LOOP DETECTOR

Description

This work shall consist of furnishing and installing an inductive loop detector in accordance with Section 885 of the Standard Specifications and the following additions or exceptions.

The inductive loop detector amplifiers shall be the card rack type. Independent units in individual housings shall not be permitted.

Basis of Payment

This work will be paid for at the contract unit price each for INDUCTIVE LOOP DETECTOR, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified. If the detector unit has more than one complete detection channel,

then each complete detection channel will be considered as a detector for payment.

88600100 DETECTOR LOOP, TYPE I

Description

This work shall consist of furnishing and installing a detector loop in accordance with Section 886 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

Each detector loop shall be wired to an individual pair of the lead-in cable unless otherwise noted in the plans. The loops shall be wired in series at the controller cabinet detector panel via the multipair lead-in cable.

The detector loop shall be tested in accordance with Article 801.13(b)(2) of the Standard Specifications. Testing of the inductance shall be done on individual loops at the handhole or gulfbox junction. Testing of the inductance shall also be done on the array of loops and the respective lead-in at the controller cabinet as they are grouped together on individual detector amplifiers. Testing shall include measurements of resistance, resistance to ground, inductance, and Q values. Documentation of all test results shall be left in the controller cabinet.

Method of Measurement

This work will be measured for payment in feet in place. Type I detector loop will be measured along the sawed slot in the pavement containing the loop and lead-in, rather than the actual length of the wire.

Basis of Payment

This work will be paid for at the contract unit price per foot for DETECTOR LOOP, TYPE I, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified, including all testing.

88700200 LIGHT DETECTOR

Description

This work shall consist of furnishing and installing a light detector and confirmation beacon in accordance with Section 887 of the Standard Specifications and the following additions or exceptions.

The light detector shall be the single-direction, single-channel Opticom Model 711 detector manufactured by Global Traffic Technologies LLC or approved equivalent. The electric cable for the light detector shall be Opticom Model 138 detector cable manufactured by Global Traffic Technologies LLC or approved equivalent. The detector cable shall be a continuous unbroken run from the light detector to the light detector amplifier. Splices in the detector cable are not allowed. Furnishing and installing the detector cable shall be included in the cost of the light detector.

A confirmation beacon shall be installed with each light detector. The electric cable for the

confirmation beacon shall be No. 14 AWG three-conductor signal cable. Furnishing and installing the confirmation beacon and electric cable shall be included in the cost of the light detector.

Basis of Payment

This work will be paid for at the contract unit price each for LIGHT DETECTOR, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

The confirmation beacon and all cable required for the installation of the light detector and confirmation beacon shall be included in the cost of the light detector.

88700300 LIGHT DETECTOR AMPLIFIER

Description

This work shall consist of furnishing and installing a light detector amplifier in accordance with Section 887 of the Standard Specifications and the following additions or exceptions.

The light detector amplifier shall be the four-channel, dual priority Opticom Model 454 discriminator manufactured by Global Traffic Technologies LLC or approved equivalent. The light detector amplifier shall be furnished with an Opticom Model 760 card rack manufactured by Global Traffic Technologies LLC or approved equivalent.

Basis of Payment

This work will be paid for at the contract unit price each for LIGHT DETECTOR AMPLIFIER, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

88800100 PEDESTRIAN PUSH-BUTTON

(Village of Savoy)

Description

This work shall consist of furnishing and installing a pedestrian push-button in accordance with Section 888 of the Standard Specifications and the following additions or exceptions.

The Contractor shall apply an anti-seize paste compound on all nuts and bolts prior to assembly.

The Contractor shall furnish and install the required number of pedestrian push-button signs with each pedestrian push-button. The signs shall be MUTCD R10-4b or as otherwise directed by the Engineer. Furnishing and installing the pedestrian push-button sign shall be included in the cost of the pedestrian push-button.

Basis of Payment

This work will be paid for at the contract unit price each for PEDESTRIAN PUSH-BUTTON, which price shall be considered payment in full for all labor, equipment, and material necessary to complete

the work as specified.

The pedestrian push-button sign shall be included in the cost of the pedestrian push-button.

X8250011 LIGHTING CONTROLLER, LOCATION NO. 1

(City of Champaign)

X8250012 LIGHTING CONTROLLER, LOCATION NO. 2

(Village of Savoy)

X8250013 LIGHTING CONTROLLER, LOCATION NO. 3

(Village of Savoy)

Description

This work shall be performed in accordance with Section 825 of the Standard Specifications except as modified herein and as shown on the drawings.

Materials

The lighting controller cabinet shall be an aluminum, Type III cabinet, single door, painted black (City of Champaign) or unpainted (Village of Savoy), in accordance with Article 1068.01 of the Standard Specifications. Provide a concrete Type D foundation for the lighting controller. The foundation shall be in accordance with Standard 878001 and Section 878 of the Standard Specifications.

Provide all control components as shown in the Lighting Controller Bills of Materials on the drawings and as specified herein:

Panelboard interior: Provide panelboard interior with main breaker and bus ratings as shown in the plans. Panelboard interior shall have copper bus and shall be service entrance rated. Provide bolt on circuit breakers, quantity, rating, and number of poles as shown in the plans. Panelboard interior shall include an equipment ground bus, bonded to controller cabinet.

HOA Switch: Provide Hand-Off-Auto switch in controller cabinet. Switch shall be connected such that the lights are on in the Hand position, and are controlled by the photocell in the Auto position.

Light, switch, and GFI: Provide a 100 watt incandescent light fixture with clear globe and protective guard mounted from top of cabinet. Lamp shall be a 100 watt, 130VAC rough service lamp. Provide a 120VAC, 20A, single pole switch, plunger type, mounted such that it turns on the incandescent controller light when door is opened. Provide 120 VAC, 20A, Ground Fault Circuit Interrupting duplex receptacle.

Photocell: Provide photocell switch with locking type receptacle and integral surge arrestors. Provide brackets to mount photocell in cabinet as detailed in the Plans. Provide shielding as detailed in the plans and a time delay relay to prevent nuisance switching.

Lighting contactors: Provide quantity of lighting contactors as shown in the plans. Lighting

contactors shall be a minimum of 2 pole, 30 amp, 240VAC with 120VAC electrically held coil.

Provide terminal strips as shown on the plans for all incoming wiring. Quantity of terminals shall be such that there is a minimum of 50% spare terminals. Provide separate terminal block for control wiring.

Where indicated in the Bills of Materials on the drawings, provide two phase detection relays, one relay shall monitor the incoming power to the lighting controller cabinet, and the other relay shall monitor the power feeding the traffic signal control cabinet on the load side of the breaker feeding the traffic signal control cabinet. Each phase detection relay shall be provided with a set of dry contacts that close upon loss of power.

Where indicated in the Bills of Materials on the drawings, provide an autodialer with battery backup configured to call out upon loss of power. The autodialer shall be capable of accepting two contact closure signals from the phase detection relays to signal loss of power. In the event of a contact closure, the autodialer shall be programmed to automatically dial the Village of Savoy to transmit the loss of power alarm. Coordinate all requirements with the Village of Savoy for phone numbers to call.

All equipment listed above and shown on the plans shall be mounted to a steel installation mounting to be installed in the controller cabinet.

Provide all wiring required in the controller cabinet to connect the control components as indicated in the plans. All wiring in the controller cabinet shall be neatly trained and bundled. All wiring shall be clearly marked at each termination.

The controller cabinet at the intersection of Curtis Road and Mattis Avenue and the controller cabinet at the intersection of Curtis Road and Prospect Avenue shall both contain an engraved laminated plastic nameplate with the following message: "CAUTION - TRAFFIC SIGNAL MAST ARM POLES HAVE TWO SOURCES OF POWER. TRAFFIC SIGNALS ARE FED FROM THE TRAFFIC SIGNAL CONTROLLER CABINET." The nameplate shall be red with white letters, and the letters shall be 1/4" high. The nameplate shall be mounted with corrosion-resistant screws in a prominent location inside the controller cabinet.

Method of Measurement

Lighting Controller will be counted as each for each separate location identified on the plans. The control cabinet, all control components shown in the plans and specified above, interconnecting wiring, foundation, and installation shall be included in this pay item.

Basis of Payment

This work will be paid for at the contract unit price each for LIGHTING CONTROLLER for each location specified, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

X8730027 ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1/C

Description

This work shall consist of furnishing and installing electric cables in conduit, complete with all splicing, identifications, and terminations, in accordance with Section 873 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

Equipment grounding conductors shall be made continuous by splicing. Splices shall only be permitted in handholes, double handholes, post bases, and pole handholes unless otherwise directed by the Engineer. All splices shall be irreversible hydraulic compression splices in accordance with Article 1066.06 of the Standard Specifications. No other types of splices shall be permitted. All compression splices shall be neat and direct to the path of ground.

Equipment grounding conductors shall be connected to each grounding electrode conductor in the traffic signal system with irreversible hydraulic compression splices or connected to each ground rod in the traffic signal system with exothermic welds. Refer to the traffic signal grounding diagrams in the plans for additional information.

All required compression splices and all exothermic welds not included in the cost of a concrete foundation shall be included in the cost of Electric Cable in Conduit, Grounding, No. 6 1/C.

Basis of Payment

This work will be paid for at the contract unit price per foot for ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1/C, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

X8760100 PEDESTRIAN PUSH-BUTTON POST, UNPAINTED ALUMINUM, TYPE II
(Village of Savoy)

Description

This work shall consist of constructing a concrete foundation and furnishing and installing a pedestrian push-button post in accordance with Section 876 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

The aluminum post shall be according to Article 1077.01 of the Standard Specifications, except the nominal size shall be 3 inches. The post and base shall be unpainted.

The Contractor shall apply an anti-seize paste compound on all nuts and bolts prior to assembly.

The concrete foundation shall be included in the cost of the pedestrian push-button post.

Basis of Payment

This work will be paid for at the contract unit price each for PEDESTRIAN PUSH-BUTTON POST, UNPAINTED ALUMINUM, TYPE II, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

XX003163 EMERGENCY VEHICLE PRIORITY SYSTEM

Description

This work shall consist of furnishing and installing an emergency vehicle priority system that uses Global Positioning System (GPS) technology and radio communication in accordance with the details in the plans and as specified herein.

The emergency vehicle priority system shall be the Opticom GPS Priority Control System manufactured by Global Traffic Technologies LLC or approved equivalent. The system shall include a pole-mounted Model 1010 radio/GPS unit, a phase selector, a card rack with power supply, an auxiliary interface panel, and installation cables.

The radio/GPS unit shall be mounted on a bracket connected to the mast arm pole. The unit shall be mounted at least 1 foot above the traffic signal mast arm, at least 2 feet away from the mast arm pole, and 45 degrees to the intersection or as otherwise directed by the Engineer.

The radio/GPS cable shall be a continuous unbroken run from the radio/GPS unit to the phase selector. Splices in the radio/GPS cable are not allowed. Furnishing and installing the radio/GPS cable shall be included in the cost of the emergency vehicle priority system.

Basis of Payment

This work will be paid for at the contract unit price each for EMERGENCY VEHICLE PRIORITY SYSTEM, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

All cable required for the installation of the GPS Priority Control System shall be included in the cost of the emergency vehicle priority system.

XX004921 PEDESTRIAN PUSH-BUTTON, SPECIAL

(City of Champaign)

Description

This work shall consist of furnishing and installing a pedestrian push-button in accordance with Section 888 of the Standard Specifications and the following additions or exceptions.

The pedestrian push-button shall be the 4 EVR 120 Round push-button manufactured by Campbell Company or the BDLM2 push-button with momentary LED manufactured by Polara Engineering Inc. The push-button housing shall be finished with a standard black finish.

The Contractor shall apply an anti-seize paste compound on all nuts and bolts prior to assembly.

The City of Champaign will furnish and install the required pedestrian push-button signs.

Basis of Payment

This work will be paid for at the contract unit price each for PEDESTRIAN PUSH-BUTTON, SPECIAL, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

XX005428 INTERNALLY ILLUMINATED STREET NAME SIGN

Description

This work shall consist of furnishing and installing an internally illuminated street name sign in accordance with the details in the plans and as specified herein.

The Contractor's attention is directed to the Traffic Signal Details sheet for details of the sign face. All messages shall be clearly legible, attracting attention under any lighting conditions.

The sign shall be single-face, internally illuminated, and suspended below a traffic signal mast arm. Internal illumination will be controlled by a photocell located inside the roadway lighting controller cabinet. The sign shall not have an individual photocell.

The sign shall be 72"± long, 22"± high, and 8"± deep.

Products

The internally illuminated street name sign shall be manufactured by National Sign and Signal or Traffic Signs, Inc.

Materials

1. Housing

The housing shall be extruded from 6063-T5 aluminum alloy. Seams shall be welded continuous to provide a weatherproof seal. The housing shall meet the manufacturer's requirements for drainage and weatherproofing. All exterior surfaces of the housing shall be cleaned, prepared, primed, and finished with a standard black finish. All interior surfaces shall be cleaned and left as mill finished aluminum.

2. Face

The Contractor shall furnish the sign with a clear polycarbonate face. The Contractor shall deliver the sign to the City of Champaign for installation of the sheeting required for the sign legend. The Contractor shall pick up the sign from the City of Champaign after the sign legend has been installed.

The sign legend shall have white lettering with a white border on a green background as shown in the plans and will be furnished and installed by the City of Champaign.

3. Illumination

Internal illumination shall be provided by two 800 MA fluorescent lamps rated at 12,000 hours. The lamps shall be evenly spaced and located in the cabinet to provide even illumination of the sign face.

The ballast shall be a high output, rapid start, outdoor rated, cold weather, electronic sign ballast that is compatible with the system voltage and lamp type. The ballast shall be encased and potted and shall be provided by a major manufacturer with proven dependability. Fluorescent sockets shall prevent water intrusion.

4. Wiring

The wiring from the roadway lighting controller cabinet to the sign shall be No. 10 AWG one-conductor cables in accordance with Section 817 of the Standard Specifications. Wire connections shall be made with insulated compression wire nuts. The electric cable will be paid for separately.

5. Mounting Hardware

The mounting hardware shall allow swinging of the sign to reduce mast arm wind loads. Brackets shall be adjustable for leveling the sign for use on any size mast arm. Brackets shall be cleaned, prepared, primed, and finished with a standard black finish.

Basis of Payment

This work will be paid for at the contract unit price each for INTERNALLY ILLUMINATED STREET NAME SIGN, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified. The No. 10 AWG electric cable will be paid for separately.

XX005928 TRAFFIC SIGNAL POST, 10 FOOT (SPECIAL)

XX005929 TRAFFIC SIGNAL POST, 14 FOOT (SPECIAL)

(City of Champaign)

Description

This work shall consist of furnishing and installing a traffic signal post in accordance with Section 875 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

The post and base shall be made of aluminum. The post shall be furnished with an aluminum pole cap. The base shall be furnished with an aluminum reinforcing collar and a grounding lug suitable for connecting a copper equipment grounding conductor. The post, cap, base, and collar shall be finished with a standard black finish.

The Contractor shall apply an anti-seize paste compound on all nuts and bolts prior to assembly.

Basis of Payment

This work will be paid for at the contract unit price each for TRAFFIC SIGNAL POST (SPECIAL), of the length specified, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

JUNCTION BOX, SPECIAL (12"W x 12"L x 12"D)
JUNCTION BOX, SPECIAL (13"W x 24"L x 12"D)

Description

This work shall be performed in accordance with Section 813 of the Standard Specifications except as modified herein and as shown on the drawings.

Materials

Junction boxes shall be fiberglass reinforced polymer concrete and fiberglass reinforced polymer.

Junction box covers shall be of the same material as the junction box and shall have the words "STREET LIGHTING" cast into the cover.

Junction box covers and collar shall be standard concrete grey color in sidewalks and shall be manufacturer's dark green in grass areas.

Junction box size shall be minimum 12"x12"x12" or as specified on the plans.

Basis of Payment

This work will be paid for at the contract unit price each for JUNCTION BOX, SPECIAL, of the size specified, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT, SPECIAL
(City of Champaign)

Description

This work shall consist of furnishing and installing a luminaire in accordance with Section 821 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

Materials

The full cut-off luminaire shall have a 250 watt high pressure sodium lamp and an M-C-III lighting distribution. It shall not have an individual photocell. The luminaire shall have a black finish.

The luminaire shall be the M-400A Power/Door luminaire with cutoff optics manufactured by GE Lighting Systems, catalog number MDCA-25-S-0-M-1-2-F-MC3-1-549, or approved equivalent. The ballast shall be wired for 240 volts.

Basis of Payment

This work will be paid for at the contract unit price each for LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT, SPECIAL, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

ROADWAY LIGHTING CONDUIT REMOVAL

Description

This work shall consist of the removal and disposal of existing roadway lighting cables and conduits as specified herein.

The existing roadway lighting cables and conduits that are not incorporated in the proposed roadway lighting work shall be removed, and the trenches shall be backfilled in accordance with Article 819.04 of the Standard Specifications.

The existing cable shall be removed from the existing conduit to remain in place at the location shown in the plans. The existing conduit to remain in place shall be cleaned and swabbed as directed by the Engineer prior to installation of the proposed cable. Removing the existing cable and cleaning and swabbing the existing conduit shall be included in the cost of Roadway Lighting Conduit Removal, and no additional compensation will be allowed.

The existing cables and conduits that are removed shall not be reused, shall become the property of the Contractor, and shall be disposed of outside the right-of-way in accordance with Article 202.03 of the Standard Specifications.

Basis of Payment

This work will be paid for at the contract unit price per foot for ROADWAY LIGHTING CONDUIT REMOVAL, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

WIRELESS VEHICLE DETECTION SYSTEM

Description

This work shall consist of furnishing and installing a wireless vehicle detection system that uses pavement-mounted magnetic sensors and low-power radio technology in accordance with the details in the plans and as specified herein.

The wireless vehicle detection system shall be the Sensys Wireless Vehicle Detection System manufactured by Sensys Networks Inc. or approved equivalent. The system shall include 28 wireless sensors, 2 access points, 10 repeaters, 2 CC-TS2 contact closure cards with AccessBoxes, 14 EX-TS2 contact closure cards, and installation cables.

The wireless sensors, access points, and repeaters shall be installed at the locations shown in the plans or as otherwise directed by the Engineer.

The Power over Ethernet (PoE) twisted-pair cable shall be a continuous unbroken run from the access point to the AccessBox. Splices in the PoE cable are not allowed. Furnishing and installing the PoE cable shall be included in the cost of the wireless vehicle detection system.

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Basis of Payment

This work will be paid for at the contract unit price each for WIRELESS VEHICLE DETECTION SYSTEM, which price shall be considered payment in full for all labor, equipment, and material necessary to complete the work as specified.

All cable required for the installation of the Wireless Vehicle Detection System shall be included in the cost of the wireless vehicle detection system.

STATUS OF UTILITIES TO BE ADJUSTED

The intent is for adjustments to be made prior to the start of construction. It may be necessary for some of the utility relocations to be done during construction and the Contractor will be required to cooperate with the Utility Companies while they perform their work. See the section “Sequence of Construction” within these special provisions. Utility Companies have been provided the following information.

Status

A – Indicates item to be adjusted

R – Indicates item to be relocated or removed

NW – Indicates no work required

* - Indicates possibility of a conflict with the proposed improvements requiring further field investigation by the Contractor and utility owner.

<u>Name & Address of Utility CO.</u>	<u>Type</u>	<u>Location</u>	<u>Status</u>
Ameren IP 1112 West Anthony Drive P.O. Box 17070 Urbana, Illinois 61803-17070	Power Poles	60+63 Rt.	NW
		60+66 Lt.	NW
		63+11 Rt.	NW
		65+62 Rt.	NW
		68+15 Rt.	NW
		70+69 Rt.	NW
		73+20 Rt.	NW
		75+72 Rt.	NW
		78+32 Rt.	NW
		80+94 Rt.	NW
		83+56 Rt.	NW
		85+47 Rt.	R
		86+17 Rt.	R
		88+93 Rt.	NW
		91+67 Rt.	NW
		94+44 Rt.	NW
		97+21 Rt.	NW
99+97 Rt.	NW		
102+76 Rt.	NW		
105+52 Rt.	NW		
108+25 Rt.	NW		
108+96 Lt.	R		
110+86 Lt.	R		
111+01 Rt.	NW		
113+83 Rt.	NW		
116+64 Rt.	NW		
119+46 Rt.	A		

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<u>Name & Address of Utility CO.</u>	<u>Type</u>	<u>Location</u>	<u>Status</u>
Ameren IP 1112 West Anthony Drive P.O. Box 17070 Urbana, Illinois 61803-17070	Power Poles	122+29 Rt.	R
		125+11 Rt.	R
		127+94 Rt.	R
		130+74 Rt.	R
		133+56 Rt.	R
		136+38 Rt.	R
		136+58 Lt.	NW
		138+01 Rt.	R
		138+78 Lt.	R
		138+79 Lt.	R
		139+07 Lt.	NW
		141+39 Rt.	R
		141+47 Lt.	NW
		144+18 Lt.	NW
		144+19 Rt.	R
		146+04 Lt.	NW
		146+78 Lt.	NW
		146+82 Rt.	R
		148+52 Lt.	NW
		149+25 Lt.	NW
		151+72 Lt.	NW
		151+89 Lt.	NW
		494+80 Rt.	R
497+39 Rt.	R		
500+07 Rt.	R		
655+20 Rt.	R		
658+95 Rt.	NW		
661+03 Rt.	NW		
663+15 Rt.	NW		
665+28 Rt.	NW		
Ameren IP 1112 West Anthony Drive P.O. Box 17070 Urbana, Illinois 61803-17070	U.G. Electric Cable	72+00 Lt. to 73+20 Rt.	R
		141+39 Rt.	R
		146+04 Lt.	NW
Ameren IP 1112 West Anthony Drive P.O. Box 17070 Urbana, Illinois 61803-17070	Gas Lines	62+00 Lt. to 72+52 Lt.	R
		72+52 Lt.	A*
		134+60 Lt.	A*
		134+60 Rt. to 138+07 Lt.	R*
		138+07 Lt. to 664+50 Lt.	R*
		138+07 Lt. to 139+75 Rt.	A
		146+23 Lt. to 154+00 Lt.	NW

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<u>Name & Address of Utility CO.</u>	<u>Type</u>	<u>Location</u>	<u>Status</u>
University of Illinois University Office for Facilities, Planning and Programs 1501 South Oak Street Champaign, Illinois 61820	Gas Lines	59+50 Lt. to 61+65 Rt.	NW
		61+65 Rt.	A*
		62+97 Rt.	A*
		62+97 Rt. to 98+50 Rt.	R
		98+50 Rt. to 105+00 Rt.	NW
		105+00 Rt. to 131+00 Rt.	NW*
		131+00 Rt.	A*
		131+00 Rt. to 138+41 Rt.	NW*
		138+41 Rt.	A*
Comcast 303 Fairlawn Drive Urbana, Illinois 61801	U.G. Television Cables	136+50 Lt. to 142+38 Lt.	R
		140+00 Rt.	A
		140+00 Rt. to 142+43 Rt.	R
		142+38 Lt. to 142+40 Rt.	A
		142+38 Lt. to 145+71 Lt.	R
		145+71 Lt. to 145+99 Rt.	A
		145+71 Lt. to 154+00 Lt.	NW
		146+72 Rt. to 146+80 Rt.	A
		146+80 Rt. to 153+70 Rt.	NW
Urbana Champaign Sanitary District 1100 East University Avenue Urbana, Illinois 61803	Sanitary Sewers	85+00 Rt. to 86+70 Rt.	NW
	Vent Pipe	87+37 Rt.	R
	Vent Pipe	123+65 Rt.	R
	Sanitary Sewers	136+00 Rt. to 154+00 Lt.	NW
Illinois American Water Co. 201 Devonshire Drive Champaign, Illinois 61826	Water Mains	61+00 Lt. to 62+98 Lt.	NW
		62+98 Lt.	A*
		62+98 Lt. to 72+08 Lt.	NW*
	Fire Hydrant	71+88 Lt.	R
	Water Valve	72+03 Lt.	A
	Water Valve	72+08 Lt.	A
	Water Mains	72+08 Lt.	A
	Fire Hydrant	134+26 Rt.	R
	Water Mains	134+42 Lt.	A
		134+26 Rt. to 138+41 Rt.	A*
	Water Valve	138+41 Rt.	A
138+74 Rt.		A	
138+81 Rt.		A	

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<u>Name & Address of Utility CO.</u>	<u>Type</u>	<u>Location</u>	<u>Status</u>	
Illinois American Water Co. 201 Devonshire Drive Champaign, Illinois 61826	Water Mains	138+81 Rt. to 140+65 Rt.	NW*	
		140+65 Rt.	A*	
		141+75 Rt.	A*	
			142+87 Rt.	A*
			142+87 Rt. to 143+47 Rt.	NW*
	Fire Hydrant	143+47 Rt.	R	
	Water Mains	143+47 Rt. to 146+20 Rt.	A*	
	Water Valve	146+13 Rt.	A	
	Water Valve	146+24 Rt.	A	
	Water Mains	146+75 Rt. to 149+40 Rt.	A*	
		149+40 Rt. to 149+80 Rt.	R	
	Water Valve	149+80 Rt.	R	
	Water Mains	149+80 Lt. to 154+00 Lt.	NW*	
		650+63 Rt.	A*	
		655+96 Rt. to 665+12 Rt.	NW*	
Water Service	658+19 Lt.	A		
Water Service	663+82 Lt.	A		
Water Service	663+82 Rt.	A		
AT & T 201 South Neil Street Champaign, Illinois 61820	U.G. Telephone Cables	61+00 Lt. & Rt. to 139+52 Lt. & Rt.	R	
		138+82 Rt.	A	
		139+52 Lt. to 146+45 Lt.	NW	
		146+87 Lt.	R*	
		146+87 Rt.	A	
		146+87 Lt. to 154+00 Lt.	NW	
		146+87 Rt. to 154+00 Rt.	NW	
		492+41 Rt. to 500+80 Rt.	R	
		650+63 Rt.	A	
		655+60 Rt. to 657+00 Rt.	A	
657+00 Rt. to 664+85 Rt.	NW			

State of Illinois
Department of Transportation
Bureau of Local Roads and Streets

SPECIAL PROVISION
FOR
COOPERATION WITH UTILITIES

Effective: January 1, 1999
Revised: January 1, 2007

All references to Sections or Articles in this specification shall be construed to mean specific Section or Article of the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation.

Replace Article 105.07 of the Standard Specifications with the following:

"105.07 Cooperation with Utilities. The adjustment of utilities consists of the relocation, removal, replacement, rearrangements, reconstruction, improvement, disconnection, connection, shifting, new installation or altering of an existing utility facility in any manner.

When the plans or special provisions include information pertaining to the location of underground utility facilities, such information represents only the opinion of the Department as to the location of such utilities and is only included for the convenience of the bidder. The Department assumes no responsibility in respect to the sufficiency or the accuracy of the information shown on the plans relative to the location of the underground utility facilities.

Utilities which are to be adjusted shall be adjusted by the utility owner or the owner's representative or by the Contractor as a contract item. Generally, arrangements for adjusting existing utilities will be made by the Department prior to project construction; however, utilities will not necessarily be adjusted in advance of project construction and, in some cases, utilities will not be removed from the proposed construction limits. When utility adjustments must be performed in conjunction with construction, the utility adjustment work will be shown on the plans and/or covered by Special Provisions.

When the Contractor discovers a utility has not been adjusted by the owner or the owner's representative as indicated in the contract documents, or the utility is not shown on the plans or described in the Special Provisions as to be adjusted in conjunction with construction, the Contractor shall not interfere with said utility, and shall take proper precautions to prevent damage or interruption of the utility and shall promptly notify the Engineer of the nature and location of said utility.

All necessary adjustments, as determined by the Engineer, of utilities not shown on the plans or not identified by markers, will be made at no cost to the Contractor except traffic structures, light poles, etc., that are normally located within the proposed construction limits as hereinafter defined will not be adjusted unless required by the proposed improvement.

(a) Limits of Proposed Construction for Utilities Paralleling the Roadway. For the purpose of this Article, limits of proposed construction for utilities extending in the same longitudinal direction as the roadway, shall be defined as follows:

(1) The horizontal limits shall be a vertical plane, outside of, parallel to, and 600 mm (2 ft) distant at right angles from the plan or revised slope limits.

In cases where the limits of excavation for structures are not shown on the plans, the horizontal limits shall be a vertical plane 1.2 m (4 ft) outside the edges of structure footings or the structure where no footings are required.

(2) The upper vertical limits shall be the regulations governing the roadbed clearance for the specific utility involved.

(3) The lower vertical limits shall be the top of the utility at the depth below the proposed grade as prescribed by the governing agency or the limits of excavation, whichever is less.

(b) Limits of Proposed Construction for Utilities Crossing the Roadway. For the purpose of this Article, limits of proposed construction for utilities crossing the roadway in a generally transverse direction shall be defined as follows:

(1) Utilities crossing excavations for structures that are normally made by trenching such as sewers, underdrains, etc. and all minor structures such as manholes, inlets, foundations for signs, foundations for traffic signals, etc., the limits shall be the space to be occupied by the proposed permanent construction unless otherwise required by the regulations governing the specific utility involved.

(2) For utilities crossing the proposed site of major structures such as bridges, sign trusses, etc., the limits shall be as defined above for utilities extending in the same general direction as the roadway.

The Contractor may make arrangements for adjustment of utilities outside of the limits of proposed construction provided the Contractor furnishes the Department with a signed agreement with the utility owner covering the adjustments to be made. The cost of any adjustments made outside the limits of proposed construction shall be the responsibility of the Contractor unless otherwise provided.

The Contractor shall request all utility owners to field locate their facilities according to Article 107.31. The Engineer may make the request for location from the utility after receipt of notice from the Contractor. On request, the Engineer will make an inspection to verify that the utility company has field located its facilities, but will not assume responsibility for the accuracy of such work. The Contractor shall be responsible for maintaining the excavations or markers provided by the utility owners. This field location procedure may be waived if the utility owner has stated in writing to the Department it is satisfied the construction plans are sufficiently accurate. If the utility owner does not submit such statement to the Department, and they do not field locate their facilities in both horizontal and vertical alignment, the Engineer will authorize the Contractor in writing to proceed to locate the facilities in the most economical and reasonable manner, subject to the approval of the Engineer, and be paid according to Article 109.04.

The Contractor shall coordinate with any planned utility adjustment or new installation and the Contractor shall take all precautions to prevent disturbance or damage to utility facilities. Any failure on the part of the utility owner, or their representative, to proceed with any planned utility adjustment or new installation shall be reported promptly by the Contractor to the Engineer orally and in writing.

The Contractor shall take all necessary precautions for the protection of the utility facilities. The Contractor shall be responsible for any damage or destruction of utility facilities resulting from neglect, misconduct, or omission in the Contractor's manner or method of execution or nonexecution of the work, or caused by defective work or the use of unsatisfactory materials. Whenever any damage or destruction of a utility facility occurs as a result of work performed by the Contractor, the utility company will be immediately notified. The utility company will make arrangements to restore such facility to a condition equal to that existing before any such damage or destruction was done.

It is understood and agreed that the Contractor has considered in the bid all of the permanent and temporary utilities in their present and/or adjusted positions.

No additional compensation will be allowed for any delays, inconvenience, or damage sustained by the Contractor due to any interference from the said utility facilities or the operation of relocating the said utility facilities.

State of Illinois
Department of Transportation
Bureau of Local Roads and Streets

SPECIAL PROVISION
FOR
INSURANCE

Effective: February 1, 2007
Revised: August 1, 2007

All references to Sections or Articles in this specification shall be construed to mean specific Section or Article of the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation.

The Contractor shall name the following entities as additional insured under the Contractor's general liability insurance policy in accordance with Article 107.27:

Champaign County

City of Champaign

Village of Savoy

Clark Dietz, Inc.

The entities listed above and their officers, employees, and agents shall be indemnified and held harmless in accordance with Article 107.26.

State of Illinois
Department of Transportation
Bureau of Local Roads and Streets

SPECIAL PROVISION
FOR
CONSTRUCTION AND MAINTENANCE SIGNS

Effective: January 1, 2004
Revised: June 1, 2007

All references to Sections or Articles in this specification shall be construed to mean a specific Section or Article of the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation.

701.14. Signs. Add the following paragraph to Article 701.14:

All warning signs shall have minimum dimensions of 1200 mm x 1200 mm (48" x 48") and have a black legend on a fluorescent orange reflectorized background, meeting, as a minimum, Type AP reflectivity requirements of Table 1091-2 in Article 1091.02.

ALKALI-SILICA REACTION FOR PRECAST AND PRECAST PRESTRESSED CONCRETE (BDE)

Effective: January 1, 2009

Description. This special provision is intended to reduce the risk of a deleterious alkali-silica reaction in precast and precast prestressed concrete exposed to humid or wet conditions. The special provision is not intended or adequate for concrete exposed to potassium acetate, potassium formate, sodium acetate or sodium formate. The special provision shall not apply to the dry environment (humidity less than 60 percent) found inside buildings for residential or commercial occupancy. The special provision shall also not apply to cast-in-place concrete.

Aggregate Expansion Values. Each coarse and fine aggregate will be tested by the Department for alkali reaction according to ASTM C 1260. The test will be performed with Type I or II cement having a total equivalent alkali content ($\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$) of 0.90 percent or greater. The Engineer will determine the assigned expansion value for each aggregate, and these values will be made available on the Department's Alkali-Silica Potential Reactivity Rating List. The Engineer may differentiate aggregate based on ledge, production method, gradation number, or other factors. An expansion value of 0.05 percent will be assigned to limestone or dolomite coarse aggregates and 0.03 percent to limestone or dolomite fine aggregates (manufactured stone sand); however the Department reserves the right to perform the ASTM C 1260 test.

Aggregate Groups. Each combination of aggregates used in a mixture will be assigned to an aggregate group. The point at which the coarse aggregate and fine aggregate expansion values intersect in the following table will determine the group.

AGGREGATE GROUPS			
Coarse Aggregate or Coarse Aggregate Blend ASTM C 1260 Expansion	Fine Aggregate or Fine Aggregate Blend ASTM C 1260 Expansion		
	$\leq 0.16\%$	$> 0.16\% - 0.27\%$	$> 0.27\%$
	$\leq 0.16\%$	Group I	Group II
$> 0.16\% - 0.27\%$	Group II	Group II	Group III
$> 0.27\%$	Group III	Group III	Group IV

Mixture Options. Based upon the aggregate group, the following mixture options shall be used; however, the Department may prohibit a mixture option if field performance shows a deleterious alkali-silica reaction or Department testing indicates the mixture may experience a deleterious alkali-silica reaction.

- Group I - Mixture options are not applicable. Use any cement or finely divided mineral.
- Group II - Mixture options 1, 2, 3, 4, or 5 shall be used.
- Group III - Mixture options 1, 2 and 3 combined, 4, or 5 shall be used.

Group IV - Mixture options 1, 2 and 4 combined, or 5 shall be used.

- a) Mixture Option 1. The coarse or fine aggregates shall be blended to place the material in a group that will allow the selected cement or finely divided mineral to be used.

When a coarse or fine aggregate is blended, the weighted expansion value shall be calculated separately for the coarse and fine aggregate as follows:

$$\text{Weighted Expansion Value} = (a/100 \times A) + (b/100 \times B) + (c/100 \times C) + \dots$$

Where: a, b, c... = percentage of aggregate in the blend;
A, B, C... = expansion value for that aggregate.

- b) Mixture Option 2. A finely divided mineral shall be used as described in 1), 2), 3), or 4) that follow. The replacement ratio is defined as "finely divided mineral:portland cement".

1) Class F Fly Ash. For Class PC concrete, precast products, and PS concrete, Class F fly ash shall replace 15 percent of the portland cement at a minimum replacement ratio of 1.5:1.

2) Class C Fly Ash. For Class PC Concrete, precast products, and Class PS concrete, Class C fly ash with 18 percent to less than 26.5 percent calcium oxide content, and less than 2.0 percent loss on ignition, shall replace 20 percent of the portland cement at a minimum replacement ratio of 1:1; or at a minimum replacement ratio of 1.25:1 if the loss on ignition is 2.0 percent or greater. Class C fly ash with less than 18 percent calcium oxide content shall replace 20 percent of the portland cement at a minimum replacement ratio of 1.25:1.

3) Ground Granulated Blast-Furnace Slag. For Class PC concrete, precast products, and Class PS concrete, ground granulated blast-furnace slag shall replace 25 percent of the portland cement at a minimum replacement ratio of 1:1.

4) Microsilica or High Reactivity Metakaolin. Microsilica solids or high reactivity metakaolin shall be added to the mixture at a minimum 25 lb/cu yd (15 kg/cu m) or 27 lb/cu yd (16 kg/cu m) respectively.

- c) Mixture Option 3. The cement used shall have a maximum total equivalent alkali content ($\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$) of 0.60 percent. When aggregate in Group II is involved, any finely divided mineral may be used with a portland cement.

- d) Mixture Option 4. The cement used shall have a maximum total equivalent alkali content ($\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$) of 0.45 percent. When aggregate in Group II or III is involved, any finely divided mineral may be used with a portland cement.

- e) Mixture Option 5. The proposed cement or finely divided mineral may be used if the ASTM C 1567 expansion value is ≤ 0.16 percent when performed on the aggregate in

the concrete mixture with the highest ASTM C 1260 test result. The ASTM C 1567 test will be valid for two years, unless the Engineer determines the materials have changed significantly. The 0.20 percent autoclave expansion limit in ASTM C 1567 shall not apply.

If during the two year time period the Contractor needs to replace the cement, and the replacement cement has an equal or lower total equivalent alkali content ($\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$), a new ASTM C 1567 test will not be required.

Testing. If an individual aggregate has an ASTM C 1260 expansion value > 0.16 percent, an ASTM C 1293 test may be performed by the Contractor to evaluate the Department's ASTM C 1260 test result. The ASTM C 1293 test shall be performed with Type I or II cement having a total equivalent alkali content ($\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$) of 0.80 percent or greater. The interior vertical wall of the ASTM C 1293 recommended container (pail) shall be half covered with a wick of absorbent material consisting of blotting paper. If the testing laboratory desires to use an alternate container or wick of absorbent material, ASTM C 1293 test results with an alkali-reactive aggregate of known expansion characteristics shall be provided to the Engineer for review and approval. If the expansion is less than 0.040 percent after one year, the aggregate will be assigned an ASTM C 1260 expansion value of 0.08 percent that will be valid for two years, unless the Engineer determines the aggregate has changed significantly.

The Engineer reserves the right to verify a Contractor's ASTM C 1293 or 1567 test result. The Engineer will not accept the result if the precision and bias for the test methods are not met.

The laboratory performing the ASTM C 1567 test shall either be accredited by the AASHTO Materials Reference Laboratory (AMRL) for ASTM C 227 under Portland Cement or Aggregate; or shall be inspected for Hydraulic Cement - Physical Tests by the Cement and Concrete Reference Laboratory (CCRL) and shall be approved by the Department. The laboratory performing the ASTM C 1293 test shall be inspected for Portland Cement Concrete by CCRL and shall be approved by the Department.

80213

**APPROVAL OF PROPOSED BORROW AREAS, USE AREAS, AND/OR WASTE AREAS
INSIDE ILLINOIS STATE BORDERS (BDE)**

Effective: November 1, 2008

Revise the title of Article 107.22 of the Standard Specifications to read:

**"107.22 Approval of Proposed Borrow Areas, Use Areas, and/or Waste Areas Inside
Illinois State Borders."**

Add the following sentence to the end of the first paragraph of Article 107.22 of the Standard Specifications:

"Proposed borrow areas, use areas, and/or waste areas outside of Illinois shall comply with Article 107.01."

80207

AUTOMATED FLAGGER ASSISTANCE DEVICES (BDE)

Effective: January 1, 2008

Description. This work shall consist of furnishing and operating automated flagger assistance devices (AFADs) as part of the work zone traffic control and protection for two-lane highways where two-way traffic is maintained over one lane of pavement. Use of these devices shall be at the option of the Contractor.

Equipment. AFADs shall be according to the FHWA memorandum, "MUTCD - Revised Interim Approval for the use of Automated Flagger Assistance Devices in Temporary Traffic Control Zones (IA-4R)", dated January 28, 2005. The devices shall be mounted on a trailer or a moveable cart and shall meet the requirements of NCHRP 350, Category 4.

The AFAD shall be the Stop/Slow type. This device uses remotely controlled "STOP" and "SLOW" signs to alternately control right-of-way.

Signs for the AFAD shall be according to Article 701.03 of the Standard Specifications and the MUTCD. The signs shall be 24 x 24 in. (600 x 600 mm) having an octagon shaped "STOP" sign on one side and a diamond shaped "SLOW" sign on the opposite side. The letters on the signs shall be 8 in. (200 mm) high. If the "STOP" sign has louvers, the full sign face shall be visible at a distance of 50 ft (15 m) and greater.

The signs shall be supplemented with one of the following types of lights.

- (a) Flashing Lights. When flashing lights are used, white or red flashing lights shall be mounted within the "STOP" sign face and white or yellow flashing lights within the "SLOW" sign face.
- (b) Stop and Warning Beacons. When beacons are used, a stop beacon shall be mounted 24 in. (600 mm) or less above the "STOP" sign face and a warning beacon mounted 24 in. (600 mm) or less above, below, or to the side of the "SLOW" sign face. As an option, a Type B warning light may be used in lieu of the warning beacon.

A "WAIT ON STOP" sign shall be placed on the right hand side of the roadway at a point where drivers are expected to stop. The sign shall be 24 x 30 in. (600 x 750 mm) with a black legend and border on a white background. The letters shall be at least 6 in. (150 mm) high.

This device may include a gate arm or mast arm that descends to a horizontal position when the "STOP" sign is displayed and rises to a vertical position when the "SLOW" sign is displayed. When included, the end of the arm shall reach at least to the center of the lane being controlled. The arm shall have alternating red and white retroreflective stripes, on both sides, sloping downward at 45 degrees toward the side on which traffic will pass. The stripes shall be 6 in. (150 mm) in width and at least 2 in. (50 mm) in height.

Flagging Requirements. Flaggers and flagging requirements shall be according to Article 701.13 of the Standard Specifications and the following.

AFADs shall be placed at each end of the traffic control, where a flagger is shown on the plans. The flaggers shall be able to view the face of the AFAD and approaching traffic during operation.

To stop traffic, the "STOP" sign shall be displayed, the corresponding lights/beacon shall flash, and when included, the gate arm shall descend to a horizontal position. To permit traffic to move, the "SLOW" sign shall be displayed, the corresponding lights/beacon shall flash, and when included, the gate arm shall rise to a vertical position.

If used at night, the AFAD location shall be illuminated according to Section 701 of the Standard Specifications.

When not in use, AFADs will be considered nonoperating equipment and shall be stored according to Article 701.11 of the Standard Specifications.

Basis of Payment. This work will not be paid for separately but shall be considered as included in the cost of the various traffic control items included in the contract.

80192

BITUMINOUS MATERIALS COST ADJUSTMENTS (BDE) (RETURN FORM WITH BID)

Effective: November 2, 2006

Revised: January 2, 2007

Description. For projects with at least 1200 tons (1100 metric tons) of work involving applicable bituminous materials, cost adjustments will be made to provide additional compensation to the Contractor, or credit to the Department, for fluctuations in the cost of bituminous materials when optioned by the Contractor. The adjustments shall apply to permanent and temporary hot-mix asphalt (HMA) mixtures, bituminous surface treatments (cover and seal coats), and pavement preservation type surface treatments. The adjustments shall not apply to bituminous prime coats, tack coats, crack filling/sealing, or joint filling/sealing.

The bidder shall indicate on the attached form whether or not this special provision will be part of the contract and submit the completed form with his/her bid. Failure to submit the form, or failure to fill out the form completely, shall make this contract exempt of bituminous materials cost adjustments.

Method of Adjustment. Bituminous materials cost adjustments will be computed as follows.

$$CA = (BPI_P - BPI_L) \times (\%AC_V / 100) \times Q$$

- Where: CA = Cost Adjustment, \$.
- BPI_P = Bituminous Price Index, as published by the Department for the month the work is performed, \$/ton (\$/metric ton).
- BPI_L = Bituminous Price Index, as published by the Department for the month prior to the letting, \$/ton (\$/metric ton).
- %AC_V = Percent of virgin Asphalt Cement in the Quantity being adjusted. For HMA mixtures, the % AC_V will be determined from the adjusted job mix formula. For bituminous materials applied, a performance graded or cutback asphalt will be considered to be 100% AC_V and undiluted emulsified asphalt will be considered to be 65% AC_V.
- Q = Authorized construction Quantity, tons (metric tons) (see below).

For HMA mixtures measured in square yards: $Q, \text{ tons} = A \times D \times (G_{mb} \times 46.8) / 2000$. For HMA mixtures measured in square meters: $Q, \text{ metric tons} = A \times D \times (G_{mb} \times 24.99) / 1000$. When computing adjustments for full-depth HMA pavement, separate calculations will be made for the binder and surface courses to account for their different G_{mb} and % AC_V.

For bituminous materials measured in gallons: $Q, \text{ tons} = V \times 8.33 \text{ lb/gal} \times SG / 2000$

For bituminous materials measured in liters: $Q, \text{ metric tons} = V \times 1.0 \text{ kg/L} \times SG / 1000$

- Where: A = Area of the HMA mixture, sq yd (sq m).
- D = Depth of the HMA mixture, in. (mm).
- G_{mb} = Average bulk specific gravity of the mixture, from the approved mix design.
- V = Volume of the bituminous material, gal (L).

SG = Specific Gravity of bituminous material as shown on the bill of lading.

Basis of Payment. Bituminous materials cost adjustments may be positive or negative but will only be made when there is a difference between the BPI_L and BPI_P in excess of five percent, as calculated by:

$$\text{Percent Difference} = \{(BPI_L - BPI_P) \div BPI_L\} \times 100$$

Bituminous materials cost adjustments will be calculated for each calendar month in which applicable bituminous material is placed; and will be paid or deducted when all other contract requirements for the items of work are satisfied. The adjustments shall not apply during contract time subject to liquidated damages for completion of the entire contract.

Return With Bid

**ILLINOIS DEPARTMENT
OF TRANSPORTATION**

**OPTION FOR
BITUMINOUS MATERIALS COST ADJUSTMENTS**

The bidder shall submit this completed form with his/her bid. Failure to submit the form, or failure to fill out the form completely, shall make this contract exempt of bituminous materials cost adjustments. After award, this form, when submitted, shall become part of the contract.

Contract No.: _____

Company Name: _____

Contractor's Option:

Is your company opting to include this special provision as part of the contract?

Yes No

Signature: _____ **Date:** _____

80173

CEMENT (BDE)

Effective: January 1, 2007

Revised: November 1, 2007

Revise Section 1001 of the Standard Specifications to read:

"SECTION 1001. CEMENT

1001.01 Cement Types. Cement shall be according to the following.

- (a) Portland Cement. Acceptance of portland cement shall be according to the current Bureau of Materials and Physical Research's Policy Memorandum, "Portland or Blended Cement Acceptance Procedure for Qualified and Non-Qualified Plants".

Portland cement shall be according to ASTM C 150, and shall meet the standard physical and chemical requirements. Type I or Type II may be used for cast-in-place, precast, and precast prestressed concrete. Type III may be used according to Article 1020.04, or when approved by the Engineer. All other cements referenced in ASTM C 150 may be used when approved by the Engineer.

The total of all organic processing additions shall be a maximum of 1.0 percent by weight (mass) of the cement and the total of all inorganic processing additions shall be a maximum of 4.0 percent by weight (mass) of the cement. Organic processing additions shall be limited to grinding aids that improve the flowability of cement, reduce pack set, and improve grinding efficiency. Inorganic processing additions shall be limited to granulated blast-furnace slag according to the chemical requirements of AASHTO M 302 and Class C fly ash according to the chemical requirements of AASHTO M 295.

- (b) Portland-Pozzolan Cement. Acceptance of portland-pozzolan cement shall be according to the current Bureau of Materials and Physical Research's Policy Memorandum, "Portland or Blended Cement Acceptance Procedure for Qualified and Non-Qualified Plants".

Portland-pozzolan cement shall be according to ASTM C 595 and shall meet the standard physical and chemical requirements. Type IP or I(PM) may be used for cast-in-place, precast, and precast prestressed concrete, except when Class PP concrete is used. The pozzolan constituent for Type IP shall be a maximum of 21 percent of the weight (mass) of the portland-pozzolan cement. All other cements referenced in ASTM C 595 may be used when approved by the Engineer.

For cast-in-place construction, portland-pozzolan cements shall not be used in concrete mixtures when the air temperature is below 40 °F (4 °C) without permission of the Engineer. If permission is given, the mix design strength requirement may require the Contractor to increase the cement or eliminate the cement factor reduction for a water-

reducing or high range water-reducing admixture which is permitted according to Article 1020.05(b).

The total of all organic processing additions shall be a maximum of 1.0 percent by weight (mass) of the cement. Organic processing additions shall be limited to grinding aids as defined in (a) above. Inorganic processing additions shall not be used.

- (c) Portland Blast-Furnace Slag Cement. Acceptance of portland blast-furnace slag cement shall be according to the current Bureau of Materials and Physical Research's Policy Memorandum, "Portland or Blended Cement Acceptance Procedure for Qualified and Non-Qualified Plants".

Portland blast-furnace slag cement shall be according to ASTM C 595 and shall meet the standard physical and chemical requirements. Type I(SM) slag-modified portland cement may be used for cast-in-place, precast, and precast prestressed concrete, except when Class PP concrete is used. All other cements referenced in ASTM C 595 may be used when approved by the Engineer.

For cast-in-place construction, portland blast-furnace slag cements shall not be used in concrete mixtures when the air temperature is below 40 °F (4 °C) without permission of the Engineer. If permission is given, the mix design strength requirement may require the Contractor to increase the cement or eliminate the cement factor reduction for a water-reducing or high range water-reducing admixture which is permitted according to Article 1020.05(b).

The total of all organic processing additions shall be a maximum of 1.0 percent by weight (mass) of the cement. Organic processing additions shall be limited to grinding aids as defined in (a) above. Inorganic processing additions shall not be used.

- (d) Rapid Hardening Cement. Rapid hardening cement shall be used according to Article 1020.04 or when approved by the Engineer. The cement shall be on the Department's current "Approved List of Packaged, Dry, Rapid Hardening Cementitious Materials for Concrete Repairs", and shall be according to the following.

- (1) The cement shall have a maximum final set of 25 minutes, according to Illinois Modified ASTM C 191.
- (2) The cement shall have a minimum compressive strength of 2000 psi (13,800 kPa) at 3.0 hours, and 4000 psi (27,600 kPa) at 24.0 hours, according to Illinois Modified ASTM C 109.
- (3) The cement shall have a maximum drying shrinkage of 0.050 percent at seven days, according to Illinois Modified ASTM C 596.
- (4) The cement shall have a maximum expansion of 0.020 percent at 14 days, according to Illinois Modified ASTM C 1038.

- (5) The cement shall have a minimum 80 percent relative dynamic modulus of elasticity; and shall not have a weight (mass) gain in excess of 0.15 percent or a weight (mass) loss in excess of 1.0 percent, after 100 cycles, according to Illinois Modified AASHTO T 161, Procedure B. At 100 cycles, the specimens are measured and weighed at 73 °F (23 °C).
- (e) Calcium Aluminate Cement. Calcium aluminate cement shall be used when specified by the Engineer. The cement shall meet the standard physical requirements for Type I cement according to ASTM C 150, except the time of setting shall not apply. The chemical requirements shall be determined according to ASTM C 114 and shall be as follows: minimum 38 percent aluminum oxide (Al_2O_3), maximum 42 percent calcium oxide (CaO), maximum 1 percent magnesium oxide (MgO), maximum 0.4 percent sulfur trioxide (SO_3), maximum 1 percent loss on ignition, and maximum 3.5 percent insoluble residue.

1001.02 Uniformity of Color. Cement contained in single loads or in shipments of several loads to the same project shall not have visible differences in color.

1001.03 Mixing Brands and Types. Different brands or different types of cement from the same manufacturing plant, or the same brand or type from different plants shall not be mixed or used alternately in the same item of construction unless approved by the Engineer.

1001.04 Storage. Cement shall be stored and protected against damage, such as dampness which may cause partial set or hardened lumps. Different brands or different types of cement from the same manufacturing plant, or the same brand or type from different plants shall be kept separate."

80166

CONCRETE GUTTER, TYPE A (BDE)

Effective: January 1, 2009

Revise the first two paragraphs of Article 606.07 of the Standard Specifications to read:

"606.07 Concrete Gutter, Curb, and Curb and Gutter. Joints in concrete gutter, curb, and combination curb and gutter shall be a continuation of the joints in the adjacent portland cement concrete pavement, base course, base course widening, or shoulder. Expansion joints adjacent to drainage castings may be placed in prolongation with other joint types.

When concrete gutter, curb, and combination curb and gutter are constructed adjacent to flexible pavement or shoulders, joints shall be constructed according to the details shown on the plans."

Delete the fourth sentence of the fourth paragraph of Article 606.07 of the Standard Specifications.

80214

DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION (BDE)

Effective: September 1, 2000

Revised: November 1, 2008

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

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

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

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

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

CONTRACT GOAL TO BE ACHIEVED BY THE CONTRACTOR. This contract includes a specific DBE utilization goal established by the Department. The goal has been included because the Department has determined that the work of this contract has subcontracting opportunities that may be suitable for performance by DBE companies. This determination is

based on an assessment of the type of work, the location of the work, and the availability of DBE companies to do a part of the work. The assessment indicates that, in the absence of unlawful discrimination, and in an arena of fair and open competition, DBE companies can be expected to perform 5 % of the work. This percentage is set as the DBE participation goal for this contract. Consequently, in addition to the other award criteria established for this contract, the Department will award this contract to a bidder who makes a good faith effort to meet this goal of DBE participation in the performance of the work. A bidder makes a good faith effort for award consideration if either of the following is done in accordance with the procedures set forth in this Special Provision:

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

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

BIDDING PROCEDURES. Compliance with the bidding procedures of this Special Provision is required prior to the award of the contract and the failure of the as-read low bidder to comply will render the bid not responsive.

- (a) In order to assure the timely award of the contract, the as-read low bidder shall submit a Disadvantaged Business Utilization Plan on Department form SBE 2026 within seven working days after the date of letting. To meet the seven day requirement, the bidder may send the Plan by certified mail or delivery service within the seven working day period. If a question arises concerning the mailing date of a Plan, the mailing date will be established by the U.S. Postal Service postmark on the original certified mail receipt from the U.S. Postal Service or the receipt issued by a delivery service. It is the responsibility of the bidder to ensure that the postmark or receipt date is affixed within the seven working days if the bidder intends to rely upon mailing or delivery to satisfy the submission day requirement. The Plan is to be submitted to the Department of Transportation, Bureau of Small Business Enterprises, Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764 (Telefax: (217)785-1524). It is the responsibility of the bidder to obtain confirmation of telefax delivery. The Department will not accept a Utilization Plan if it does not meet the seven day submittal requirement and the bid will be declared not responsive. In the event the bid is declared not responsive due to a failure to submit a Plan or failure to comply with the bidding procedures set forth herein, the Department may elect to cause the forfeiture of the

penal sum of the bidder's proposal guaranty, and may deny authorization to bid the project if re-advertised for bids. The Department reserves the right to invite any other bidder to submit a Utilization Plan at any time for award consideration or to extend the time for award.

- (b) The Utilization Plan shall indicate that the bidder either has obtained sufficient DBE participation commitments to meet the contract goal or has not obtained enough DBE participation commitments in spite of a good faith effort to meet the goal. The Utilization Plan shall further provide the name, telephone number, and telefax number of a responsible official of the bidder designated for purposes of notification of plan approval or disapproval under the procedures of this Special Provision.
- (c) The Utilization Plan shall include a DBE Participation Commitment Statement, Department form SBE 2025, for each DBE proposed for the performance of work to achieve the contract goal. The signatures on these forms must be original signatures. All elements of information indicated on the said form shall be provided, including but not limited to the following:
 - (1) The name and address of each DBE to be used;
 - (2) A description, including pay item numbers, of the commercially useful work to be done by each DBE;
 - (3) The price to be paid to each DBE for the identified work specifically stating the quantity, unit price, and total subcontract price for the work to be completed by the DBE. If partial pay items are to be performed by the DBE, indicate the portion of each item, a unit price where appropriate and the subcontract price amount;
 - (4) A commitment statement signed by the bidder and each DBE evidencing availability and intent to perform commercially useful work on the project; and
 - (5) If the bidder is a joint venture comprised of DBE companies and non-DBE companies, the plan must also include a clear identification of the portion of the work to be performed by the DBE partner(s).
- (d) The contract will not be awarded until the Utilization Plan submitted by the bidder is approved. The Utilization Plan will be approved by the Department if the Plan commits sufficient commercially useful DBE work performance to meet the contract goal. The Utilization Plan will not be approved by the Department if the Plan does not commit sufficient DBE performance to meet the contract goal unless the bidder documents that it made a good faith effort to meet the goal. The good faith procedures of Section VIII of this special provision apply. If the Utilization Plan is not approved because it is deficient in a technical matter, unless waived by the Department, the bidder will be notified and will be allowed no less than a five working day period in order to cure the deficiency.

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

- (a) DBE as the Contractor: 100 percent goal credit for that portion of the work performed by the DBE's own forces, including the cost of materials and supplies. Work that a DBE subcontracts to a non-DBE does not count toward the DBE goals.
- (b) DBE as a joint venture Contractor: 100 percent goal credit for that portion of the total dollar value of the contract equal to the distinct, clearly defined portion of the work performed by the DBE's own forces.
- (c) DBE as a subcontractor: 100 percent goal credit for the work of the subcontract performed by the DBE's own forces, including the cost of materials and supplies, excluding the purchase of materials and supplies or the lease of equipment by the DBE subcontractor from the prime Contractor or its affiliates. Work that a DBE subcontractor in turn subcontracts to a non-DBE does not count toward the DBE goal.
- (d) DBE as a trucker: 100 percent goal credit for trucking participation provided the DBE is responsible for the management and supervision of the entire trucking operation for which it is responsible. At least one truck owned, operated, licensed, and insured by the DBE must be used on the contract. Credit will be given for the full value of all such DBE trucks operated using DBE employed drivers. Goal credit will be limited to the value of the reasonable fee or commission received by the DBE if trucks are leased from a non-DBE company.
- (e) DBE as a material supplier:
 - (1) 60 percent goal credit for the cost of the materials or supplies purchased from a DBE regular dealer.
 - (2) 100 percent goal credit for the cost of materials or supplies obtained from a DBE manufacturer.
 - (3) 100 percent credit for the value of reasonable fees and commissions for the procurement of materials and supplies if not a regular dealer or manufacturer.

GOOD FAITH EFFORT PROCEDURES. If the bidder cannot obtain sufficient DBE commitments to meet the contract goal, the bidder must document in the Utilization Plan the good faith efforts made in the attempt to meet the goal. This means that the bidder must show that all necessary and reasonable steps were taken to achieve the contract goal. Necessary and reasonable steps are those which could reasonably be expected to obtain sufficient DBE participation. The Department will consider the quality, quantity, and intensity of the kinds of efforts that the bidder has made. Mere *pro forma* efforts are not good faith efforts; rather, the bidder is expected to have taken those efforts that would be reasonably expected of a bidder actively and aggressively trying to obtain DBE participation sufficient to meet the contract goal.

(a) The following is a list of types of action that the Department will consider as part of the evaluation of the bidder's good faith efforts to obtain participation. These listed factors are not intended to be a mandatory checklist and are not intended to be exhaustive. Other factors or efforts brought to the attention of the Department may be relevant in appropriate cases, and will be considered by the Department.

(1) Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBE companies that have the capability to perform the work of the contract. The bidder must solicit this interest within sufficient time to allow the DBE companies to respond to the solicitation. The bidder must determine with certainty if the DBE companies are interested by taking appropriate steps to follow up initial solicitations.

(2) Selecting portions of the work to be performed by DBE companies in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the prime Contractor might otherwise prefer to perform these work items with its own forces.

(3) Providing interested DBE companies with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.

(4) a. Negotiating in good faith with interested DBE companies. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBE companies that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBE companies to perform the work.

b. A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and

using DBE companies is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also, the ability or desire of a bidder to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Bidders are not, however, required to accept higher quotes from DBE companies if the price difference is excessive or unreasonable.

- (5) Not rejecting DBE companies as being unqualified without sound reasons based on a thorough investigation of their capabilities. The bidder's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the bidder's efforts to meet the project goal.
 - (6) Making efforts to assist interested DBE companies in obtaining bonding, lines of credit, or insurance as required by the recipient or Contractor.
 - (7) Making efforts to assist interested DBE companies in obtaining necessary equipment, supplies, materials, or related assistance or services.
 - (8) Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, state, and federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBE companies.
- (b) If the Department determines that the bidder has made a good faith effort to secure the work commitment of DBE companies to meet the contract goal, the Department will award the contract provided that it is otherwise eligible for award. If the Department determines that a good faith effort has not been made, the Department will notify the bidder of that preliminary determination by contacting the responsible company official designated in the Utilization Plan. The preliminary determination shall include a statement of reasons why good faith efforts have not been found, and may include additional good faith efforts that the bidder could take. The notification will designate a five working day period during which the bidder shall take additional efforts. The bidder is not limited by a statement of additional efforts, but may take other action beyond any stated additional efforts in order to obtain additional DBE commitments. The bidder shall submit an amended Utilization Plan if additional DBE commitments to meet the contract goal are secured. If additional DBE commitments sufficient to meet the contract goal are not secured, the bidder shall report the final good faith efforts made in the time allotted. All additional efforts taken by the bidder will be considered as part of the bidder's good faith efforts. If the bidder is not able to meet the goal after taking additional efforts, the Department will make a pre-final determination of the good faith efforts of the bidder and will notify the designated responsible company official of the reasons for an adverse determination.
- (c) The bidder may request administrative reconsideration of a pre-final determination adverse to the bidder within the five working days after the notification date of the

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

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

- (a) No amendment to the Utilization Plan may be made without prior written approval from the Department's Bureau of Small Business Enterprises. All requests for amendment to the Utilization Plan shall be submitted to the Department of Transportation, Bureau of Small Business Enterprises, Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764. Telephone number (217) 785-4611. Telefax number (217) 785-1524.
- (b) All work indicated for performance by an approved DBE shall be performed, managed, and supervised by the DBE executing the Participation Statement. The Contractor shall not terminate for convenience a DBE listed in the Utilization Plan and then perform the work of the terminated DBE with its own forces, those of an affiliate or those of another subcontractor, whether DBE or not, without first obtaining the written consent of the Bureau of Small Business Enterprises to amend the Utilization Plan. If a DBE listed in the Utilization Plan is terminated for reasons other than convenience, or fails to complete its work on the contract for any reason, the Contractor shall make good faith efforts to

find another DBE to substitute for the terminated DBE. The good faith efforts shall be directed at finding another DBE to perform at least the same amount of work under the contract as the DBE that was terminated, but only to the extent needed to meet the contract goal or the amended contract goal. The Contractor shall notify the Bureau of Small Business Enterprises of any termination for reasons other than convenience, and shall obtain approval for inclusion of the substitute DBE in the Utilization Plan. If good faith efforts following a termination of a DBE for cause are not successful, the Contractor shall contact the Bureau of Small Business Enterprises and provide a full accounting of the efforts undertaken to obtain substitute DBE participation. The Bureau of Small Business Enterprises will evaluate the good faith efforts in light of all circumstances surrounding the performance status of the contract, and determine whether the contract goal should be amended.

- (c) The Contractor shall maintain a record of payments for work performed to the DBE participants. The records shall be made available to the Department for inspection upon request. After the performance of the final item of work or delivery of material by a DBE and final payment therefor to the DBE by the Contractor, but not later than thirty calendar days after payment has been made by the Department to the Contractor for such work or material, the Contractor shall submit a DBE Payment Agreement on Department form SBE 2115 to the Regional Engineer. If full and final payment has not been made to the DBE, the DBE Payment Agreement shall indicate whether a disagreement as to the payment required exists between the Contractor and the DBE or if the Contractor believes that the work has not been satisfactorily completed. If the Contractor does not have the full amount of work indicated in the Utilization Plan performed by the DBE companies indicated in the Plan, the Department will deduct from contract payments to the Contractor the amount of the goal not achieved as liquidated and ascertained damages.
- (d) The Department reserves the right to withhold payment to the Contractor to enforce the provisions of this Special Provision. Final payment shall not be made on the contract until such time as the Contractor submits sufficient documentation demonstrating achievement of the goal in accordance with this Special Provision or after liquidated damages have been determined and collected.
- (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.

DOWEL BARS (BDE)

Effective: April 1, 2007

Revised: January 1, 2008

Revise the fifth and sixth sentences of Article 1006.11(b) of the Standard Specifications to read:

"The bars shall be epoxy coated according to AASHTO M 284, except the thickness of the epoxy shall be 7 to 12 mils (0.18 to 0.30 mm) and patching of the ends will not be required. The epoxy coating applicator shall be certified according to the current Bureau of Materials and Physical Research Policy Memorandum, "Epoxy Coating Plant Certification Procedure". The Department will maintain an approved list."

80178

ENGINEER'S FIELD OFFICE TYPE A (BDE)

Effective: April 1, 2007

Revised: August 1, 2008

Revise Article 670.02 of the Standard Specifications to read:

“670.02 Engineer's Field Office Type A. Type A field offices shall have a minimum ceiling height of 7 ft (2 m) and a minimum floor space 450 sq ft (42 sq m). The office shall be provided with sufficient heat, natural and artificial light, and air conditioning.

The office shall have an electronic security system that will respond to any breach of exterior doors and windows. Doors and windows shall be equipped with locks. Doors shall also be equipped with dead bolt locks or other secondary locking device.

Windows shall be equipped with exterior screens to allow adequate ventilation. All windows shall be equipped with interior shades, curtains, or blinds. Adequate all-weather parking space shall be available to accommodate a minimum of ten vehicles.

Suitable on-site sanitary facilities meeting Federal, State, and local health department requirements shall be provided, maintained clean and in good working condition, and shall be stocked with lavatory and sanitary supplies at all times.

Sanitary facilities shall include hot and cold potable running water, lavatory and toilet as an integral part of the office where available. Solid waste disposal consisting of two waste baskets and an outside trash container of sufficient size to accommodate a weekly provided pick-up service.

In addition, the following furniture and equipment shall be furnished.

- (a) Four desks with minimum working surface 42 x 30 in. (1.1 m x 750 mm) each and five non-folding chairs with upholstered seats and backs.
- (b) One desk with minimum working surface 48 x 72 in. (1.2 x 1.8 m) with height adjustment of 23 to 30 in. (585 to 750 mm).
- (c) One four-post drafting table with minimum top size of 37 1/2 x 48 in. (950 mm x 1.2 m). The top shall be basswood or equivalent and capable of being tilted through an angle of 50 degrees. An adjustable height drafting stool with upholstered seat and back shall also be provided.
- (d) Two free standing four drawer legal size file cabinet with lock and an underwriters' laboratories insulated file device 350 degrees one hour rating.
- (e) One 6 ft (1.8 m) folding table with six folding chairs.

- (f) One equipment cabinet of minimum inside dimension of 44 in. (1100 mm) high x 24 in. (600 mm) wide x 30 in. (750 mm) deep with lock. The walls shall be of steel with a 3/32 in. (2 mm) minimum thickness with concealed hinges and enclosed lock constructed in such a manner as to prevent entry by force. The cabinet assembly shall be permanently attached to a structural element of the field office in a manner to prevent theft of the entire cabinet.
- (g) One refrigerator with a minimum size of 16 cu ft (0.45 cu m) with a freezer unit.
- (h) One electric desk type tape printing calculator.
- (i) A minimum of two communication paths. The configuration shall include:
 - (1) Internet Connection. An internet service connection using telephone DSL, cable broadband, or CDMA wireless technology. Additionally, an 802.11g/N wireless router shall be provided, which will allow connection by the Engineer and up to four Department staff.
 - (2) Telephone Lines. Three separate telephone lines.
- (j) One plain paper copy machine capable of reproducing prints up to 11 x 17 in. (280 x 432 mm) with an automatic feed tray capable of storing 30 sheets of paper. Letter size and 11 x 17 in. (280 x 432 mm) paper shall be provided.
- (k) One plain paper fax machine with paper.
- (l) Two telephones, with touch tone, where available, and a digital telephone answering machine, for exclusive use by the Engineer.
- (m) One electric water cooler dispenser.
- (n) One first-aid cabinet fully equipped.
- (o) One microwave oven, 1 cu ft (0.03 cu m) minimum capacity.
- (p) One fire-proof safe, 0.5 cu ft (0.01 cu m) minimum capacity.
- (q) One electric paper shredder.
- (r) One post mounted rain gauge, located on the project site for each 5 miles (8 km) of project length."

Revise the first sentence of the first paragraph of Article 670.07 of the Standard Specifications to read:

"The building or buildings fully equipped as specified will be paid for on a monthly basis until the building or buildings are released by the Engineer."

Revise the last sentence of the first paragraph of Article 670.07 of the Standard Specifications to read:

"This price shall include all utility costs and shall reflect the salvage value of the building or buildings, equipment, and furniture which become the property of the Contractor after release by the Engineer, except that the Department will pay that portion of the monthly long distance telephone bills that, when combined, exceed \$150."

80179

EQUIPMENT RENTAL RATES (BDE)

Effective: August 2, 2007

Revised: January 2, 2008

Replace the second and third paragraphs of Article 105.07(b)(4)a. of the Standard Specifications with the following:

“Equipment idled which cannot be used on other work, and which is authorized to standby on the project site by the Engineer, will be paid for according to Article 109.04(b)(4).”

Replace Article 109.04(b)(4) of the Standard Specifications with the following:

“(4) Equipment. Equipment used for extra work shall be authorized by the Engineer. The equipment shall be specifically described, be of suitable size and capacity for the work to be performed, and be in good operating condition. For such equipment, the Contractor will be paid as follows.

- a. Contractor Owned Equipment. Contractor owned equipment will be paid for by the hour using the applicable FHWA hourly rate from the “Equipment Watch Rental Rate Blue Book” (Blue Book) in effect when the force account work begins. The FHWA hourly rate is calculated as follows.

$$\text{FHWA hourly rate} = (\text{monthly rate}/176) \times (\text{model year adj.}) \times (\text{Illinois adj.}) + \text{EOC}$$

Where: EOC = Estimated Operating Costs per hour (from the Blue Book)

The time allowed will be the actual time the equipment is operating on the extra work. For the time required to move the equipment to and from the site of the extra work and any authorized idle (standby) time, payment will be made at the following hourly rate: $0.5 \times (\text{FHWA hourly rate} - \text{EOC})$.

All time allowed shall fall within the working hours authorized for the extra work.

The rates above include the cost of fuel, oil, lubrication, supplies, small tools, necessary attachments, repairs, overhaul and maintenance of any kind, depreciation, storage, overhead, profits, insurance, and all incidentals. The rates do not include labor.

The Contractor shall submit to the Engineer sufficient information for each piece of equipment and its attachments to enable the Engineer to determine the proper equipment category. If a rate is not established in the Blue Book for a particular piece of equipment, the Engineer will establish a rate for that piece of equipment that is consistent with its cost and use in the industry.

- b. Rented Equipment. Whenever it is necessary for the Contractor to rent equipment to perform extra work, the rental and transportation costs of the equipment plus five percent for overhead will be paid. In no case shall the rental rates exceed those of established distributors or equipment rental agencies.

All prices shall be agreed to in writing before the equipment is used."

80189

HOT-MIX ASPHALT - FIELD VOIDS IN THE MINERAL AGGREGATE (BDE)

Effective: April 1, 2007

Revised: April 1, 2008

Add the following to the table in Article 1030.05(d)(2)a. of the Standard Specifications:

"Parameter	Frequency of Tests	Frequency of Tests	Test Method See Manual of Test Procedures for Materials
	High ESAL Mixture Low ESAL Mixture	All Other Mixtures	
VMA	Day's production ≥ 1200 tons:	N/A	Illinois-Modified AASHTO R 35
Note 5.	1 per half day of production		
	Day's production < 1200 tons:		
	1 per half day of production for first 2 days and 1 per day thereafter (first sample of the day)		

Note 5. The G_{sb} used in the voids in the mineral aggregate (VMA) calculation shall be the same average G_{sb} value listed in the mix design."

Add the following to the Control Limits table in Article 1030.05(d)(4) of the Standard Specifications:

"CONTROL LIMITS			
Parameter	High ESAL Low ESAL	High ESAL Low ESAL	All Other
	Individual Test	Moving Avg. of 4	Individual Test
VMA	-0.7 % ^{2/}	-0.5 % ^{2/}	N/A

2/ Allowable limit below minimum design VMA requirement"

Add the following to the table in Article 1030.05(d)(5) of the Standard Specifications:

"CONTROL CHART REQUIREMENTS	High ESAL Low ESAL	All Other
	VMA"	

Revise the heading of Article 1030.05(d)(6)a.1. of the Standard Specifications to read:

"1. Voids, VMA, and Asphalt Binder Content."

Revise the first sentence of the first paragraph of Article 1030.05(d)(6)a.1.(a.) of the Standard Specifications to read:

"If the retest for voids, VMA, or asphalt binder content exceeds control limits, HMA production shall cease and immediate corrective action shall be instituted by the Contractor."

Revise the table in Article 1030.05(e) of the Standard Specifications to read:

"Test Parameter	Acceptable Limits of Precision
% Passing: ^{1/}	
1/2 in. (12.5 mm)	5.0 %
No. 4 (4.75 mm)	5.0 %
No. 8 (2.36 mm)	3.0 %
No. 30 (600 μm)	2.0 %
Total Dust Content No. 200 (75 μm) ^{1/}	2.2 %
Asphalt Binder Content	0.3 %
Maximum Specific Gravity of Mixture	0.026
Bulk Specific Gravity	0.030
VMA	1.4 %
Density (% Compaction)	1.0 % (Correlated)

^{1/} Based on washed ignition."

80181

HOT-MIX ASPHALT – PLANT TEST FREQUENCY (BDE)

Effective: April 1, 2008

Revise the table in Article 1030.05(d)(2)a. of the Standard Specifications to read:

"Parameter	Frequency of Tests	Frequency of Tests All Other Mixtures	Test Method See Manual of Test Procedures for Materials
	High ESAL Mixture Low ESAL Mixture		
<p>Aggregate Gradation</p> <p>Hot bins for batch and continuous plants.</p> <p>Individual cold-feed or combined belt-feed for drier drum plants.</p> <p>% passing sieves: 1/2 in. (12.5 mm), No. 4 (4.75 mm), No. 8 (2.36 mm), No. 30 (600 μm) No. 200 (75 μm)</p> <p>Note 1.</p>	<p>1 dry gradation per day of production (either morning or afternoon sample). and 1 washed ignition oven test on the mix per day of production (conduct in the afternoon if dry gradation is conducted in the morning or vice versa).</p> <p>Note 3. Note 4.</p>	<p>1 gradation per day of production.</p> <p>The first day of production shall be a washed ignition oven test on the mix. Thereafter, the testing shall alternate between dry gradation and washed ignition oven test on the mix.</p> <p>Note 4.</p>	<p>Illinois Procedure</p>
<p>Asphalt Binder Content by Ignition Oven</p> <p>Note 2.</p>	<p>1 per half day of production</p>	<p>1 per day</p>	<p>Illinois-Modified AASHTO T 308</p>
<p>Air Voids</p> <p>Bulk Specific Gravity of Gyrotory Sample</p>	<p>Day's production ≥ 1200 tons: 1 per half day of production</p> <p>Day's production < 1200 tons: 1 per half day of production for first 2 days and 1 per day thereafter (first sample of the day)</p>	<p>1 per day</p>	<p>Illinois-Modified AASHTO T 312</p>

"Parameter	Frequency of Tests	Frequency of Tests All Other Mixtures	Test Method See Manual of Test Procedures for Materials
	High ESAL Mixture Low ESAL Mixture		
Maximum Specific Gravity of Mixture	Day's production \geq 1200 tons: 1 per half day of production	1 per day	Illinois-Modified AASHTO T 209"
	Day's production < 1200 tons: 1 per half day of production for first 2 days and 1 per day thereafter (first sample of the day)		

80201

HOT-MIX ASPHALT – TRANSPORTATION (BDE)

Effective: April 1, 2008

Revise Article 1030.08 of the Standard Specifications to read:

“1030.08 Transportation. Vehicles used in transporting HMA shall have clean and tight beds. The beds shall be sprayed with asphalt release agents from the Department’s approved list. In lieu of a release agent, the Contractor may use a light spray of water with a light scatter of manufactured sand (FA 20 or FA 21) evenly distributed over the bed of the vehicle. After spraying, the bed of the vehicle shall be in a completely raised position and it shall remain in this position until all excess asphalt release agent or water has been drained.

When the air temperature is below 60 °F (15 °C), the bed, including the end, endgate, sides and bottom shall be insulated with fiberboard, plywood or other approved insulating material and shall have a thickness of not less than 3/4 in (20 mm). When the insulation is placed inside the bed, the insulation shall be covered with sheet steel approved by the Engineer. Each vehicle shall be equipped with a cover of canvas or other suitable material meeting the approval of the Engineer which shall be used if any one of the following conditions is present.

- (a) Ambient air temperature is below 60 °F (15 °C).
- (b) The weather is inclement.
- (c) The temperature of the HMA immediately behind the paver screed is below 250 °F (120 °C).

The cover shall extend down over the sides and ends of the bed for a distance of approximately 12 in. (300 mm) and shall be fastened securely. The covering shall be rolled back before the load is dumped into the finishing machine.”

80202

HOT-MIX ASPHALT MIXTURE IL-9.5L (BDE)

Effective: January 1, 2008

Revise the table entry for C Surface Mixture in Article 1004.03(a) of the Standard Specifications to read:

Use	Mixture	Aggregates Allowed
HMA High ESAL Low ESAL	C Surface IL-12.5, IL-9.5, or IL-9.5L	Crushed Gravel Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag (except when used as leveling binder)"

Revise the second sentence of the first paragraph of Article 1004.03(b) of the Standard Specifications to read:

"For Class A (seal or cover coat), and other binder courses, the coarse aggregate shall be Class C quality or better."

Revise the table in Article 1030.04(b)(2) of the Standard Specifications to read:

"VOLUMETRIC REQUIREMENTS Low ESAL				
Mixture Composition	Design Compactive Effort	Design Air Voids Target %	VMA (Voids in the Mineral Aggregate), % min.	VFA (Voids Filled with Asphalt Binder), %
IL-9.5L	N _{DES} =30	4.0	15.0	65-78
IL-19.0L	N _{DES} =30	4.0	13.0	N/A"

80195

MAST ARM ASSEMBLY AND POLE (BDE)

Effective: January 1, 2008

Revised: January 1, 2009

Revise Article 1077.03 of the Standard Specifications to read:

"1077.03 Mast Arm Assembly and Pole. Mast arm assembly and pole shall be as follows.

- (a) Steel Mast Arm Assembly and Pole and Steel Combination Mast Arm Assembly and Pole. The steel mast arm assembly and pole and steel combination mast arm assembly and pole shall consist of a traffic signal mast arm, a luminaire mast arm or davit (for combination pole only), a pole, and a base, together with anchor rods and other appurtenances. The configuration of the mast arm assembly, pole, and base shall be according to the details shown on the plans.
 - (1) Loading. The mast arm assembly and pole, and combination mast arm assembly and pole shall be designed for the loading shown on the Highway Standards or elsewhere on the plans, whichever is greater. The design shall be according to AASHTO "Standard Specification for Structural Supports for Highway Signs, Luminaries and Traffic Signals" 1994 Edition for 80 mph (130 km/hr) wind velocity. However, the arm-to-pole connection for tapered signal and luminaire arms shall be according to the "ring plate" detail as shown in Figure 11-1(f) of the 2002 Interim, to the AASHTO "Standard Specification for Structural Supports for Highway Signs, Luminaries and Traffic Signals" 2001 4th Edition.
 - (2) Structural Steel Grade. The mast arm and pole shall be fabricated according to ASTM A 595, Grade A or B, ASTM A 572 Grade 55, or ASTM A 1011 Grade 55 HSLAS Class 2. The base and flange plates shall be of structural steel according to AASHTO M 270 Grade 50 (M 270M Grade 345). Luminaire arms and trussed arms 15 ft (4.5 m) or less shall be fabricated from one steel pipe or tube size according to ASTM A 53 Grade B or ASTM A 500 Grade B or C. All mast arm assemblies, poles, and bases shall be galvanized according to AASHTO M 111.
 - (3) Fabrication. The design and fabrication of the mast arm assembly, pole, and base shall be according to the requirements of the Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals published by AASHTO. The mast arm and pole may be of single length or sectional design. If section design is used, the overlap shall be at least 150 percent of the maximum diameter of the overlapping section and shall be assembled in the factory.

The manufacturer will be allowed to slot the base plate in which other bolt circles may fit, providing that these slots do not offset the integrity of the pole. Circumferential welds of tapered arms and poles to base plates shall be full penetration welds.

(4) Shop Drawing Approval. The Contractor shall submit detailed drawings showing design materials, thickness of sections, weld sizes, and anchor rods to the Engineer for approval prior to fabrication. These drawings shall be at least 11 x 17 in. (275 x 425 mm) in size and of adequate quality for microfilming.

(b) Anchor Rods. The anchor rods shall be ASTM F 1554 Grade 105, coated by the hot-dip galvanizing process according to AASHTO M 232, and shall be threaded a minimum of 7 1/2 in. (185 mm) at one end and have a bend at the other end. The first 10 in. (250 mm) at the threaded end shall be galvanized. Two nuts, one lock washer, and one flat washer shall be furnished with each anchor rod. All nuts and washers shall be galvanized."

80196

METAL HARDWARE CAST INTO CONCRETE (BDE)

Effective: April 1, 2008

Revised: November 1, 2008

Add the following to Article 503.02 of the Standard Specifications:

“(g) Metal Hardware Cast into Concrete 1006.13”

Add the following to Article 504.02 of the Standard Specifications:

“(j) Metal Hardware Cast into Concrete 1006.13”

Revise Article 1006.13 of the Standard Specifications to read:

“**1006.13 Metal Hardware Cast into Concrete.** All metal hardware cast into concrete, such as inserts, brackets, cable clamps, metal casings for formed holes, and other miscellaneous items, shall be steel and shall be galvanized according to AASHTO M 232 or AASHTO M 111.

The inserts shall be ferrules with loop or strut type anchorages having the following minimum certified proof load.

Insert Diameter	Proof Load
5/8 in. (16 mm)	6600 lb (29.4 kN)
3/4 in. (19 mm)	6600 lb (29.4 kN)
1 in. (25 mm)	9240 lb (41.1 kN)”

80203

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM / EROSION AND SEDIMENT CONTROL DEFICIENCY DEDUCTION (BDE)

Effective: April 1, 2007

Revised: November 1, 2008

Revise Article 105.03(a) of the Standard Specifications to read:

“(a) National Pollutant Discharge Elimination System (NPDES) / Erosion and Sediment Control Deficiency Deduction. When the Engineer is notified or determines an erosion and/or sediment control deficiency(s) exists, or the Contractor’s activities represents a violation of the Department’s NPDES permits, the Engineer will notify and direct the Contractor to correct the deficiency within a specified time. The specified time, which begins upon notification to the Contractor, will be from 1/2 hour to 1 week based on the urgency of the situation and the nature of the work effort required. The Engineer will be the sole judge.

A deficiency may be any lack of repair, maintenance, or implementation of erosion and/or sediment control devices included in the contract, or any failure to comply with the conditions of the Department’s NPDES permits. A deficiency may also be applied to situations where corrective action is not an option such as the failure to participate in a jobsite inspection of the project, failure to install required measures prior to initiating earth moving operations, disregard of concrete washout requirements, or other disregard of the NPDES permit.

If the Contractor fails to correct a deficiency within the specified time, a daily monetary deduction will be imposed for each calendar day or fraction thereof the deficiency exists. The calendar day(s) will begin with notification to the Contractor and end with the Engineer’s acceptance of the correction. The daily monetary deduction will be either \$1000.00 or 0.05 percent of the awarded contract value, whichever is greater. For those deficiencies where corrective action was not an option, the monetary deduction will be immediate and will be valued at one calendar day.”

80180

NOTCHED WEDGE LONGITUDINAL JOINT (BDE)

Effective: July 1, 2004

Revised: January 1, 2007

Description. This work shall consist of constructing a notched wedge longitudinal joint between successive passes of hot-mix asphalt (HMA) binder course that is placed in 2 1/4 in. (57 mm) or greater lifts on pavement that is open to traffic.

The notched wedge longitudinal joint shall consist of a 1 to 1 1/2 in. (25 to 38 mm) vertical notch at the centerline or lane line, a 9 to 12 in. (230 to 300 mm) uniform taper extending into the open lane, and a second 1 to 1 1/2 in. (25 to 38 mm) vertical notch (see Figure 1).

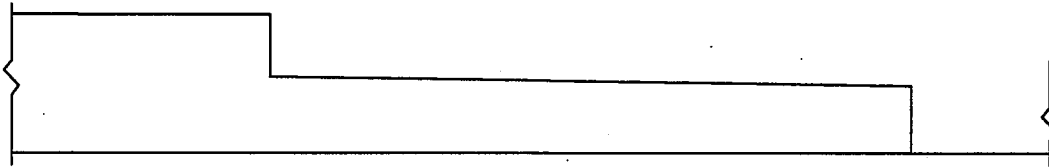


Figure 1

Equipment. Equipment shall meet the following requirements:

- a) Strike Off Device. The strike off device shall produce the notches and wedge of the joint and shall be adjustable. The device shall be attached to the paver and shall not restrict operation of the main screed.
- b) Wedge Roller. The wedge roller shall have a minimum diameter of 12 in. (300 mm), a minimum weight of 50 lb/in. (9 N/mm) of width, and a width equal to the wedge. The roller shall be attached to the paver.

CONSTRUCTION REQUIREMENTS

Joint Construction. The notched wedge longitudinal joint shall be formed by the strike off device on the paver. The wedge shall then be compacted by the joint roller.

Compaction. Initial compaction of the wedge shall be as close to final density as possible. Final density requirements of the entire binder mat, including the wedge, shall remain unchanged.

Prime Coat. Immediately prior to placing the adjacent lift of binder, the bituminous material specified for the mainline prime coat shall be applied to the entire face of the notched wedge longitudinal joint. The material shall be uniformly applied at a rate of 0.05 to 0.1 gal/sq yd (0.2 to 0.5 L/sq m).

Method of Measurement. The notched wedge longitudinal joint will not be measured for payment.

| The prime coat will be measured for payment according to Article 406.13 of the Standard Specifications.

Basis of Payment. The work of constructing the notched wedge longitudinal joint will not be paid for separately but shall be considered as included in the cost of the HMA binder course being constructed.

| The prime coat will be paid for according to Article 406.14 of the Standard Specifications.

80129

PAYMENTS TO SUBCONTRACTORS (BDE)

Effective: June 1, 2000

Revised: January 1, 2006

Federal regulations found at 49 CFR §26.29 mandate the Department to establish a contract clause to require Contractors to pay subcontractors for satisfactory performance of their subcontracts and to set the time for such payments.

State law also addresses the timing of payments to be made to subcontractors and material suppliers. Section 7 of the Prompt Payment Act, 30 ILCS 540/7, requires that when a Contractor receives any payment from the Department, the Contractor shall make corresponding, proportional payments to each subcontractor and material supplier performing work or supplying material within 15 calendar days after receipt of the Department payment. Section 7 of the Act further provides that interest in the amount of two percent per month, in addition to the payment due, shall be paid to any subcontractor or material supplier by the Contractor if the payment required by the Act is withheld or delayed without reasonable cause. The Act also provides that the time for payment required and the calculation of any interest due applies to transactions between subcontractors and lower-tier subcontractors and material suppliers throughout the contracting chain.

This Special Provision establishes the required federal contract clause, and adopts the 15 calendar day requirement of the State Prompt Payment Act for purposes of compliance with the federal regulation regarding payments to subcontractors. This contract is subject to the following payment obligations.

When progress payments are made to the Contractor according to Article 109.07 of the Standard Specifications, the Contractor shall make a corresponding payment to each subcontractor and material supplier in proportion to the work satisfactorily completed by each subcontractor and for the material supplied to perform any work of the contract. The proportionate amount of partial payment due to each subcontractor and material supplier throughout the contracting chain shall be determined by the quantities measured or otherwise determined as eligible for payment by the Department and included in the progress payment to the Contractor. Subcontractors and material suppliers shall be paid by the Contractor within 15 calendar days after the receipt of payment from the Department. The Contractor shall not hold retainage from the subcontractors. These obligations shall also apply to any payments made by subcontractors and material suppliers to their subcontractors and material suppliers; and to all payments made to lower tier subcontractors and material suppliers throughout the contracting chain. Any payment or portion of a payment subject to this provision may only be withheld from the subcontractor or material supplier to whom it is due for reasonable cause.

This Special Provision does not create any rights in favor of any subcontractor or material supplier against the State or authorize any cause of action against the State on account of any payment, nonpayment, delayed payment, or interest claimed by application of the State Prompt Payment Act. The Department will not approve any delay or postponement of the 15 day requirement except for reasonable cause shown after notice and hearing pursuant to Section

| 7(b) of the State Prompt Payment Act. State law creates other and additional remedies available to any subcontractor or material supplier, regardless of tier, who has not been paid for work properly performed or material furnished. These remedies are a lien against public funds set forth in Section 23(c) of the Mechanics Lien Act, 770 ILCS 60/23(c), and a recovery on the Contractor's payment bond according to the Public Construction Bond Act, 30 ILCS 550.

80022

PERSONAL PROTECTIVE EQUIPMENT (BDE)

Effective: November 1, 2008

Revise the first sentence of Article 701.12 of the Standard Specifications to read:

“All personnel on foot, excluding flaggers, within the highway right-of-way shall wear a fluorescent orange, fluorescent yellow/green, or a combination of fluorescent orange and fluorescent yellow/green vest meeting the requirements of ANSI/ISEA 107-2004 for Conspicuity Class 2 garments.”

80209

POLYUREA PAVEMENT MARKING (BDE)

Effective: April 1, 2004

Revised: January 1, 2009

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. Polyurea 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:

- (a) Polyurea Pavement Marking. The polyurea pavement marking material shall consist of 100 percent solid two part system formulated and designed to provide a simple volumetric mixing ratio of two components (must be two or three volumes of Part A to one volume of Part B). No volatile or polluting solvents or fillers will be allowed.
- (b) Pigmentation. The pigment content by weight (mass) of component A shall be determined by low temperature ashing according to ASTM D 3723. The pigment content shall not vary more than \pm two percent from the pigment content of the original qualified paint.

White Pigment shall be Titanium Dioxide meeting ASTM D 476 Type II, Rutile.

Yellow Pigment shall be an Organic Yellow and contain no heavy metals.

- (c) Environmental. Upon heating to application temperature, the material shall not exude fumes which are toxic or injurious to persons or property.
- (d) Daylight Reflectance. The daylight directional reflectance of the cured polyurea material (without reflective media) shall be a minimum of 80 percent (white) and 50 percent (yellow) relative to magnesium oxide when tested using a color spectrophotometer with a 45 degrees circumferential /zero degrees geometry, illuminant C, and two degrees observer angle. The color instrument shall measure the visible spectrum from 380 to 720 nm with a wavelength measurement interval and spectral bandpass of 10 nm. In addition, the color of the yellow polyurea shall visually match Color Number 33538 of Federal Standard 595a with chromaticity limits as follows:

X	0.490	0.475	0.485	0.539
Y	0.470	0.438	0.425	0.456

- (e) Weathering Resistance. The polyurea marking material, when mixed in the proper ratio and applied at 14 to 16 mils (0.35 to 0.41 mm) wet film thickness to an aluminum alloy

panel (Federal Test Std. No. 141, Method 2013) and allowed to cure for 72 hours at room temperature, shall be subjected to accelerated weathering for 75 hours. The accelerated weathering shall be completed by using the light and water exposure apparatus (fluorescent UV - condensation type) and tested according to ASTM G 53.

The cycle shall consist of four hours UV exposure at 122 °F (50 °C) and four hours of condensation at 104 °F (40 °C). UVB 313 bulbs shall be used. At the end of the exposure period, the material shall show no substantial change in color or gloss.

- (f) Dry Time. The polyurea pavement marking material, when mixed in the proper ratio and applied at 14 to 16 mils (0.35 to 0.41 mm) wet film thickness and with the proper saturation of reflective media, shall exhibit a no-tracking time of ten minutes or less when tested according to ASTM D 711.
- (g) Adhesion. The catalyzed polyurea pavement marking materials when applied to a 4 x 4 x 2 in. (100 x 100 x 50 mm) concrete block, shall have a degree of adhesion which results in a 100 percent concrete failure in the performance of this test.

The concrete block shall be brushed on one side and have a minimum strength of 3500 psi (24,100 kPa). A 2 in. (50 mm) square film of the mixed polyurea shall be applied to the brushed surface and allowed to cure for 72 hours at room temperature. A 2 in. (50 mm) square cube shall be affixed to the surface of the polyurea by means of an epoxy glue. After the glue has cured for 24 hours, the polyurea specimen shall be placed on a dynamic testing machine in such a fashion so that the specimen block is in a fixed position and the 2 in. (50 mm) cube (glued to the polyurea surface) is attached to the dynamometer head. Direct upward pressure shall be slowly applied until the polyurea system fails. The location of the break and the amount of concrete failure shall be recorded.

- (h) Hardness. The polyurea pavement marking materials when tested according to ASTM D 2240, shall have a shore D hardness of between 70 and 100. Films shall be cast on a rigid substrate at 14 to 16 mils (0.35 to 0.41 mm) in thickness and allowed to cure at room temperature for 72 hours before testing.
- (i) Abrasion. The abrasion resistance shall be evaluated according to ASTM D 4060 using a Taber Abrader with a 1,000 gram load and CS 17 wheels. The duration of the test shall be 1,000 cycles. The loss shall be calculated by difference and be less than 120 mgs. The tests shall be run on cured samples of polyurea material which have been applied at a film thickness of 14 to 16 mils (0.35 to 0.41 mm) to code S-16 stainless steel plates. The films shall be allowed to cure at room temperature for at least 72 hours and not more than 96 hours before testing.

- (j) Reflective Media. The reflective media shall meet the following requirements:

- (1) Type I - The glass beads shall meet the requirements of Article 1095.07 of the Standard Specifications and the following requirements:

- a. First Drop Glass Beads. The first drop glass beads shall be tested by the standard visual method of large glass spheres adopted by the Department. The beads shall have a silane coating and meet the following sieve requirements:

U.S. Standard Sieve Number	Sieve Size	% Passing By Weight (mass)
12	1.70 mm	95-100
14	1.40 mm	75-95
16	1.18 mm	10-47
18	1.00 mm	0-7
20	850 µm	0-5

- b. Second Drop Glass Beads. The second drop glass beads shall meet the requirements of Article 1095.07 of the Standard Specifications for Type B.

- (2) Type II - The combination of microcrystalline ceramic elements and glass beads shall meet the following requirements:

- a. First Drop Glass Beads. The first drop glass beads shall meet the following requirements:

1. Composition. The elements shall be composed of a titania opacified ceramic core having clear and or yellow tinted microcrystalline ceramic beads embedded to the outer surface.
2. Index of Refraction. All microcrystalline reflective elements embedded to the outer surface shall have an index of refraction of 1.8 when tested by the immersion method.
3. Acid Resistance. A sample of microcrystalline ceramic beads supplied by the manufacturer, shall show resistance to corrosion of their surface after exposure to a one percent solution (by weight (mass)) of sulfuric acid. Adding 0.2 oz (5.7 ml) of concentrated acid into the water shall make the one percent acid solution. This test shall be performed by taking a 1 x 2 in. (25 x 50 mm) sample and adhering it to the bottom of a glass tray and placing just enough acid solution to completely immerse the sample. The tray shall be covered with a piece of glass to prevent evaporation and allow the sample to be exposed for 24 hours under these conditions. The acid solution shall be decanted (do not rinse, touch, or otherwise disturb the bead surfaces) and the sample dried while adhered to the glass tray in a 150 °F (66 °C) oven for approximately 15 minutes. Microscope examination (20X) shall show no white (corroded) layer on the entire surface.

- b. Second Drop Glass Beads. The second drop glass beads shall meet the requirements of Article 1095.07 of the Standard Specifications for Type B or the following manufacturer's specification:

1. Sieve Analysis. The glass beads shall meet the following sieve requirements:

U.S. Standard Sieve Number	Sieve Size	% Passing By Weight (mass)
20	850 μm	100
30	600 μm	75-95
50	300 μm	15-35
100	150 μm	0-5

The manufacturer of the glass beads shall certify that the treatment of the glass beads meets the requirements of the polyurea manufacturer.

2. Imperfections. The surface of the glass beads shall be free of pits and scratches. The glass beads shall be spherical in shape and shall contain a maximum of 20 percent by weight (mass) of irregular shapes when tested by the standard method using a vibratile inclined glass plate as adopted by the Department.
 3. Index of Refraction. The index of refraction of the glass beads shall be a minimum of 1.50 when tested by the immersion method at 77 °F (25 °C).
- (k) Packaging. Microcrystalline ceramic reflective elements and glass beads shall be delivered in approved moisture proof bags or weather resistant bulk boxes. Each carton shall be legibly marked with the manufacturer, specifications and type, lot number, and the month and year the microcrystalline ceramic reflective elements and/or glass beads were packaged. The letters and numbers used in the stencils shall be a minimum of 1/2 in. (12.7 mm) in height.
- (1) Moisture Proof Bags. Moisture proof bags shall consist of at least five ply paper construction unless otherwise specified. Each bag shall contain 50 lb (22.7 kg) net.
 - (2) Bulk Weather Resistance Boxes. Bulk weather resistance boxes shall conform to Federal Specification PPP-8-640D Class II or latest revision. Boxes are to be weather resistant, triple wall, fluted, corrugated-fiber board. Cartons shall be strapped with two metal straps. Straps shall surround the outside perimeter of the carton. The first strap shall be located approximately 2 in. (50 mm) from the bottom of the carton and the second strap shall be placed approximately in the middle of the carton. All cartons shall be shrink wrapped for protection from moisture. Cartons shall be lined with a minimum 4 mil polyester bag and meet Interstate Commerce Commission requirements. Cartons shall be approximately 38 x 38 in. (1 x 1 m), contain 2000 lb (910 kg) of microcrystalline ceramic reflective elements and/or glass beads and be supported on a wooden pallet with fiber straps.
- (l) Packaging. The material shall be shipped to the job site in substantial containers and shall be plainly marked with the manufacturer's name and address, the name and color of the material, date of manufacture, and batch number.
- (m) Verification. Prior to approval and use of the polyurea pavement marking materials, the manufacturer shall submit a notarized certification of an independent laboratory, together with the results of all tests, stating these materials meet the requirements as set forth

herein. The certification test report shall state the lot tested, manufacturer's name, brand name of polyurea and date of manufacture. The certification shall be accompanied by one 1 pt (1/2 L) samples each of Part A and Part B. Samples shall be sent in the appropriate volumes for complete mixing of Part A and Part B.

After approval by the Department, certification by the polyurea manufacturer shall be submitted for each batch used. New independent laboratory certified test results and samples for testing by the Department shall be submitted any time the manufacturing process or paint formulation is changed. All costs of testing (other than tests conducted by the Department) shall be borne by the manufacturer.

- (n) Acceptance samples. Acceptance samples shall consist of one 1 pt (1/2 L) samples of Part A and Part B, of each lot of paint. Samples shall be sent in the appropriate volumes for complete mixing of Part A and Part B. The samples shall be submitted to the Department for testing, together with a manufacturer's certification. The certification shall state the formulation for the lot represented is essentially identical to that used for qualification testing. All, acceptance samples will be taken by a representative of the Department. The polyurea pavement marking materials shall not be used until tests are completed and they have met the requirements as set forth herein.
- (o) Material Retainage. The manufacturer shall retain the test sample for a minimum of 18 months.

Equipment. The polyurea pavement marking compounds shall be applied through equipment specifically designed to apply two component liquid materials, glass beads and/or reflective elements in a continuous and skip-line pattern. The two-component liquid materials shall be applied after being accurately metered and then mixed with a static mix tube or airless impingement mixing guns. The static mixing tube or impingement mixing guns shall accommodate plural component material systems that have a volumetric ratio of 2 to 1 or 3 to 1. This equipment shall produce the required amount of heat at the mixing head and gun tip and maintain those temperatures within the tolerances specified. The guns shall have the capacity to deliver materials from approximately 1.5 to 3 gal/min (5.7 to 11.4 L/min) to compensate for a typical range of application speeds of 6 to 8 mph (10 to 13 km/h). The accessories such as spray tip, mix chamber, and rod diameter shall be selected according to the manufacturer's specifications to achieve proper mixing and an acceptable spray pattern. The application equipment shall be maneuverable to the extent that straight lines can be followed and normal curves can be made in a true arc. This equipment shall also have as an integral part of the gun carriage, a high pressure air spray capable of cleaning the pavement immediately prior to making application.

The equipment shall be capable of spraying both yellow and white polyurea, according to the manufacturer's recommended proportions and be mounted on a truck of sufficient size and stability with an adequate power source to produce lines of uniform dimensions and prevent application failure. The truck shall have at least two polyurea tanks each of 110 gal (415 L) minimum capacity and be equipped with hydraulic systems and agitators. It shall be capable of placing stripes on the left and right sides and placing two lines on a three-line system simultaneously with either line in a solid or intermittent pattern, in yellow or white, and applying the appropriate reflective media according to manufacturer's recommendations. All guns shall be in full view of operations at all times. The equipment shall have a metering device to register

the accumulated installed quantities for each gun, each day. Each vehicle shall include at least one operator who shall be a technical expert in equipment operations and polyurea application techniques. Certification of equipment shall be provided at the pre-construction conference.

The mobile applicator shall include the following features:

- (a) Material Reservoirs. The applicator shall provide individual material reservoirs, or space for the storage of Part A and Part B of the resin composition.
- (b) Heating Equipment. The applicator shall be equipped with heating equipment of sufficient capacity to maintain the individual resin components at the manufacturer's recommended temperature of ± 5 °F (± 2.8 °C) for spray application.
- (c) Dispensing Equipment. The applicator shall be equipped with glass bead and/or reflective element dispensing equipment. The applicator shall be capable of applying the glass beads and/or reflective elements at a rate and combination indicated by the manufacturer.
- (d) Volumetric Usage. The applicator shall be equipped with metering devices or pressure gauges on the proportioning pumps as well as stroke counters to monitor volumetric usage. Metering devices or pressure gauges and stroke counters shall be visible to the Engineer.
- (e) Pavement Marking Placement. The applicator shall be equipped with all the necessary spray equipment, mixers, compressors and other appurtenances to allow for the placement of reflectorized pavement markings in a simultaneous sequence of operations.

The Contractor shall provide an accurate temperature-measuring device(s) that shall be capable of measuring the pavement temperature prior to application of the material, the material temperature at the gun tip and the material temperature prior to mixing.

CONSTRUCTION REQUIREMENTS

General. The pavement shall be cleaned by a method approved by the Engineer to remove all dirt, grease, glaze, or any other material that would reduce the adhesion of the markings with minimum or no damage to the pavement surface. New portland cement concrete pavements shall be air-blast-cleaned to remove all latents.

Widths, lengths, and shapes of the cleaned surface shall be of sufficient size to include the full area of the specified pavement marking to be placed.

The cleaning operation shall be a continuous moving operation process with minimum interruption to traffic.

Markings shall be applied to the cleaned surfaces on the same calendar day. If this cannot be accomplished, the surface shall be re-cleaned prior to applying the markings. No markings shall be applied until the Engineer approves the cleaning.

The pavement markings shall be applied to the cleaned road surface, during conditions of dry weather and subsequently dry pavement surfaces at a minimum uniform wet thickness of 15 mils (0.4 mm) according to the manufacturer's installation instructions. On new hot-mix asphalt (HMA) surfaces the pavement markings shall be applied at a minimum uniform wet thickness of 20 mils (0.5 mm). The application of and combination of reflective media (glass beads and/or reflective elements) shall be applied at a rate specified by the manufacturer. At the time of installation the pavement surface temperature and the ambient temperature shall be above 40 °F (4 °C) and rising. The pavement markings shall not be applied if the pavement shows any visible signs of moisture or it is anticipated that damage causing moisture, such as rain showers, may occur during the installation and set periods. The Engineer will determine the atmospheric conditions and pavement surface conditions that produce satisfactory results.

Using the application equipment, the pavement markings shall be applied in the following manner, as a simultaneous operation:

- (a) The surface shall be air-blasted to remove any dirt and residue.
- (b) The resin shall be mixed and heated according to manufacturer's recommendations and sprayed onto the pavement surface.

The edge of the center line or lane line shall be offset a minimum distance of 2 in. (50 mm) from a longitudinal crack or joint. Edge lines shall be approximately 2 in. (50 mm) from the edge of pavement. The finished center and lane lines shall be straight, with the lateral deviation of any 10 ft (3 m) line not to exceed 1 in. (25 mm).

Notification. The Contractor shall notify the Engineer 72 hours prior to the placement of the markings in order that he/she can be present during the operation. At the time of notification, the Contractor shall provide the Engineer the manufacturer and lot numbers of polyurea and reflective media that will be used.

Inspection. The polyurea pavement markings will be inspected following installation according to Article 780.10 of the Standard Specifications, except, no later than December 15, and inspected following a winter performance period that extends 180 days from December 15.

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

- (a) Contract Quantities. The requirements for the use of contract quantities shall be according to Article 202.07(a).
- (b) Measured Quantities. Lines will be measured for payment in place in feet (meters). Double yellow lines will be measured as two separate lines.

Basis of Payment. This work will be paid for at the contract unit price per foot (meter) for POLYUREA PAVEMENT MARKING TYPE I – LINE of the line width specified or for POLYUREA PAVEMENT MARKING TYPE II – LINE of the line width specified.

PORTLAND CEMENT CONCRETE PLANTS (BDE)

Effective: January 1, 2007

Add the following to Article 1020.11(a) of the Standard Specifications.

"(9) Use of Multiple Plants in the Same Construction Item. The Contractor may simultaneously use central-mixed, truck-mixed, and shrink-mixed concrete from more than one plant, for the same construction item, on the same day, and in the same pour. However, the following criteria shall be met.

- a. Each plant shall use the same cement, finely divided minerals, aggregates, admixtures, and fibers.
- b. Each plant shall use the same mix design. However, material proportions may be altered slightly in the field to meet slump and air content criteria. Field water adjustments shall not result in a difference that exceeds 0.02 between plants for water/cement ratio. The required cement factor for central-mixed concrete shall be increased to match truck-mixed or shrink-mixed concrete, if the latter two types of mixed concrete are used in the same pour.
- c. The maximum slump difference between deliveries of concrete shall be 3/4 in. (19 mm) when tested at the jobsite. If the difference is exceeded, but test results are within specification limits, the concrete may be used. The Contractor shall take immediate corrective action and shall test subsequent deliveries of concrete until the slump difference is corrected. For each day, the first three truck loads of delivered concrete from each plant shall be tested for slump by the Contractor. Thereafter, when a specified test frequency for slump is to be performed, it shall be conducted for each plant at the same time.
- d. The maximum air content difference between deliveries of concrete shall be 1.5 percent when tested at the jobsite. If the difference is exceeded, but test results are within specification limits, the concrete may be used. The Contractor shall take immediate corrective action and shall test subsequent deliveries of concrete until the air content difference is corrected. For each day, the first three truck loads of delivered concrete from each plant shall be tested for air content by the Contractor. Thereafter, when a specified test frequency for air content is to be performed, it shall be conducted for each plant at the same time.
- e. Strength tests shall be performed and taken at the jobsite for each plant. When a specified strength test is to be performed, it shall be conducted for each plant at the same time. The difference between plants for their mean strength shall not exceed 450 psi (3100 kPa) compressive and 80 psi (550 kPa) flexural. The strength standard deviation for each plant shall not exceed 650 psi (4480 kPa) compressive and 110 psi (760 kPa) flexural. The mean and standard deviation requirements shall apply to the test of record. If the strength difference requirements are exceeded, the Contractor shall take corrective action.

- f. The maximum haul time difference between deliveries of concrete shall be 15 minutes. If the difference is exceeded, but haul time is within specification limits, the concrete may be used. The Contractor shall take immediate corrective action and check subsequent deliveries of concrete until the haul time difference is corrected."

80170

PRECAST CONCRETE HANDLING HOLES (BDE)

Effective: January 1, 2007

Add the following to Article 540.02 of the Standard Specifications:

“(g) Handling Hole Plugs..... 1042.16”

Add the following paragraph after the sixth paragraph of Article 540.06 of the Standard Specifications:

“Handling holes shall be filled with a precast concrete plug and sealed with mastic or mortar, or filled with a polyethylene plug. The plug shall not project beyond the inside surface after installation. When metal lifting inserts are used, their sockets shall be filled with mastic or mortar.”

Add the following to Article 542.02 of the Standard Specifications:

“(ee) Handling Hole Plugs 1042.16”

Revise the fifth paragraph of Article 542.04(d) of the Standard Specifications to read:

“Handling holes in concrete pipe shall be filled with a precast concrete plug and sealed with mastic or mortar; or filled with a polyethylene plug. The plug shall not project beyond the inside surface after installation.”

Add the following to Article 550.02 of the Standard Specifications:

“(o) Handling Hole Plugs..... 1042.16”

Replace the fourth sentence of the fifth paragraph of Article 550.06 of the Standard Specifications with the following:

“Handling holes in concrete pipe shall be filled with a precast concrete plug and sealed with mastic or mortar; or filled with a polyethylene plug. The plug shall not project beyond the inside surface after installation.”

Add the following to Article 602.02 of the Standard Specifications:

“(p) Handling Hole Plugs..... 1042.16(a)”

Replace the fifth sentence of the first paragraph of Article 602.07 of the Standard Specifications with the following:

“Handling holes shall be filled with a precast concrete plug and sealed with mastic or mortar. The plug shall not project beyond the inside surface after installation. When metal lifting inserts are used, their sockets shall be filled with mastic or mortar.”

Add the following to Section 1042 of the Standard Specifications:

“1042.16 Handling Hole Plugs. Plugs for handling holes in precast concrete products shall be as follows.

- (a) Precast Concrete Plug. The precast concrete plug shall have a tapered shape and shall have a minimum compressive strength of 3000 psi (20,700 kPa) at 28 days.
- (b) Polyethylene Plug. The polyethylene plug shall have a “mushroom” shape with a flat round top and a stem with three different size ribs. The plug shall fit snugly and cover the handling hole.

The plug shall be according to the following.

Mechanical Properties	Test Method	Value (min.)
Flexural Modulus	ASTM D 790	3300 psi (22,750 kPa)
Tensile Strength (Break)	ASTM D 638	1600 psi (11,030 kPa)
Tensile Strength (Yield)	ASTM D 638	1200 psi (8270 kPa)

Thermal Properties	Test Method	Value (min.)
Brittle Temperature	ASTM D 746	-49 °F (-45 °C)
Vicat Softening Point	ASTM D 1525	194 °F (90 °C)”

80171

RECLAIMED ASPHALT PAVEMENT (RAP) (BDE)

Effective: January 1, 2007

Revised: August 1, 2007

In Article 1030.02(g), delete the last sentence of the first paragraph in (Note 2).

Revise Section 1031 of the Standard Specifications to read:

"SECTION 1031. RECLAIMED ASPHALT PAVEMENT

1031.01 Description. Reclaimed asphalt pavement (RAP) is reclaimed asphalt pavement resulting from cold milling or crushing of an existing dense graded hot-mix asphalt (HMA) pavement. The Contractor shall supply written documentation that the RAP originated from routes or airfields under federal, state, or local agency jurisdiction.

1031.02 Stockpiles. The Contractor shall construct individual, sealed RAP stockpiles meeting one of the following definitions. No additional RAP shall be added to the pile after the pile has been sealed. Stockpiles shall be sufficiently separated to prevent intermingling at the base. Stockpiles shall be identified by signs indicating the type as listed below (i.e. "Homogeneous Surface").

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

- (a) Homogeneous. Homogeneous RAP stockpiles shall consist of RAP from Class I, Superpave (High ESAL), HMA (High ESAL), or equivalent mixtures and represent: 1) the same aggregate quality, but shall be at least C quality; 2) the same type of crushed aggregate (either crushed natural aggregate, ACBF slag, or steel slag); 3) similar gradation; and 4) similar asphalt binder content. If approved by the Engineer, combined single pass surface/binder millings may be considered "homogenous" with a quality rating dictated by the lowest coarse aggregate quality present in the mixture.
- (b) Conglomerate 5/8. Conglomerate 5/8 RAP stockpiles shall consist of RAP from Class I, Superpave (High ESAL), HMA (High ESAL), or equivalent mixtures. The coarse aggregate in this RAP shall be crushed aggregate and may represent more than one aggregate type and/or quality but shall be at least C quality. This RAP may have an inconsistent gradation and/or asphalt binder content prior to processing. All conglomerate 5/8 RAP shall be processed prior to testing by crushing to where all RAP shall pass the 5/8 in. (16 mm) or smaller screen. Conglomerate 5/8 RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.
- (c) Conglomerate 3/8. Conglomerate 3/8 RAP stockpiles shall consist of RAP from Class I, Superpave (High ESAL), HMA (High ESAL), or equivalent mixtures. The coarse aggregate in this RAP shall be crushed aggregate and may represent more than one aggregate type and/or quality but shall be at least B quality. This RAP may have an

inconsistent gradation and/or asphalt binder content prior to processing. All conglomerate 3/8 RAP shall be processed prior to testing by crushing to where all RAP shall pass the 3/8 in. (9.5 mm) or smaller screen. Conglomerate 3/8 RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.

(d) Conglomerate "D" Quality (DQ). Conglomerate DQ RAP stockpiles shall consist of RAP from Class I, Superpave (High or Low ESAL), HMA (High or Low ESAL), or equivalent mixtures. The coarse aggregate in this RAP may be crushed or round but shall be at least D quality. This RAP may have an inconsistent gradation and/or asphalt binder content. Conglomerate DQ RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.

(e) Non-Quality. RAP stockpiles that do not meet the requirements of the stockpile categories listed above shall be classified as "Non-Quality".

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

1031.03 Testing. When used in HMA, the RAP shall be sampled and tested either during or after stockpiling.

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

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

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

(a) Testing Conglomerate 3/8. In addition to the requirements above, conglomerate 3/8 RAP shall be tested for maximum theoretical specific gravity (G_{mm}) at a frequency of one sample per 500 tons (450 metric tons) for the first 2000 tons (1800 metric tons) and one sample per 2000 tons (1800 metric tons) thereafter. A minimum of five tests shall be required for stockpiles less than 4000 tons (3600 metric tons).

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

Parameter	Homogeneous / Conglomerate	Conglomerate "D" Quality
1 in. (25 mm)		± 5 %
1/2 in. (12.5 mm)	± 8 %	± 15 %
No. 4 (4.75 mm)	± 6 %	± 13 %
No. 8 (2.36 mm)	± 5 %	
No. 16 (1.18 mm)		± 15 %
No. 30 (600 μm)	± 5 %	
No. 200 (75 μm)	± 2.0 %	± 4.0 %
Asphalt Binder	± 0.4 % ^{1/}	± 0.5 %
G_{mm}	± 0.02 ^{2/}	

1/ The tolerance for conglomerate 3/8 shall be ± 0.3 %.

2/ Applies only to conglomerate 3/8. When variation of the G_{mm} exceeds the ± 0.02 tolerance, a new conglomerate 3/8 stockpile shall be created which will also require an additional mix design.

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

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

1031.04 Quality Designation of Aggregate in RAP. The quality of the RAP shall be set by the lowest quality of coarse aggregate in the RAP stockpile and are designated as follows.

- (a) RAP from Class I, Superpave (High ESAL), or HMA (High ESAL) surface mixtures are designated as containing Class B quality coarse aggregate.
- (b) RAP from Superpave (Low ESAL)/HMA (Low ESAL) IL-19.0L binder and IL-9.5L surface mixtures are designated as Class D quality coarse aggregate.
- (c) RAP from Class I, Superpave (High ESAL), or HMA (High ESAL) binder mixtures, bituminous base course mixtures, and bituminous base course widening mixtures are designated as containing Class C quality coarse aggregate.

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

1031.05 Use of RAP in HMA. The use of RAP in HMA shall be as follows.

- (a) Coarse Aggregate Size. The coarse aggregate in all RAP shall be equal to or less than the nominal maximum size requirement for the HMA mixture to be produced.
- (b) Steel Slag Stockpiles. RAP stockpiles containing steel slag or other expansive material, as determined by the Department, shall be homogeneous and will be approved for use in HMA (High ESAL and Low ESAL) surface mixtures only.
- (c) Use in HMA Surface Mixtures (High and Low ESAL). RAP stockpiles for use in HMA surface mixtures (High and Low ESAL) shall be either homogeneous or conglomerate 3/8, in which the coarse aggregate is Class B quality or better.
- (d) Use in HMA Binder Mixtures (High and Low ESAL), HMA Base Course, and HMA Base Course Widening. RAP stockpiles for use in HMA binder mixtures (High and Low ESAL), HMA base course, and HMA base course widening shall be homogeneous, conglomerate 5/8, or conglomerate 3/8, in which the coarse aggregate is Class C quality or better.
- (e) Use in Shoulders and Subbase. RAP stockpiles for use in HMA shoulders and stabilized subbase (HMA) shall be homogeneous, conglomerate 5/8, conglomerate 3/8, or conglomerate DQ.
- (f) The use of RAP shall be a contractor's option when constructing HMA in all contracts. When the contractor chooses the RAP option, the percentage of RAP shall not exceed the amounts indicated in the table for a given N Design.

Max RAP Percentage

HMA MIXTURES ^{1/, 3/}	MAXIMUM % RAP		
	Binder/Leveling Binder	Surface	Polymer Modified
30	30	30	10
50	25	15	10
70	15 / 25 ^{2/}	10 / 15 ^{2/}	10
90	10	10	10
105	10	10	10

1/ For HMA Shoulder and Stabilized Sub-Base (HMA) N-30, the amount of RAP shall not exceed 50% of the mixture.

2/ Value of Max % RAP if 3/8 RAP is utilized.

- 3/ When RAP exceeds 20%, the high & low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25% RAP would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28).

1031.06 HMA Mix Designs. At the Contractor's option, HMA mixtures may be constructed utilizing RAP material meeting the above detailed requirements.

RAP designs shall be submitted for volumetric verification. If additional RAP stockpiles are tested and found that no more than 20 percent of the results, as defined under "Testing" herein, are outside of the control tolerances set for the original RAP stockpile and HMA mix design, and meets all of the requirements herein, the additional RAP stockpiles may be used in the original mix design at the percent previously verified.

1031.07 HMA Production. The coarse aggregate in all RAP used shall be equal to or less than the nominal maximum size requirement for the HMA mixture being produced.

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

If the RAP control tolerances or QC/QA test results require corrective action, the Contractor shall cease production of the mixture containing RAP and either switch to the virgin aggregate design or submit a new RAP design. When producing mixtures containing conglomerate 3/8 RAP, a positive dust control system shall be utilized.

HMA plants utilizing RAP shall be capable of automatically recording and printing the following information.

(a) Dryer Drum Plants.

- (1) Date, month, year, and time to the nearest minute for each print.
- (2) HMA mix number assigned by the Department.
- (3) Accumulated weight of dry aggregate (combined or individual) in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
- (4) Accumulated dry weight of RAP in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
- (5) Accumulated mineral filler in revolutions, tons (metric tons), etc. to the nearest 0.1 unit.

- (6) Accumulated asphalt binder in gallons (liters), tons (metric tons), etc. to the nearest 0.1 unit.
- (7) Residual asphalt binder in the RAP material as a percent of the total mix to the nearest 0.1 percent.
- (8) Aggregate and RAP moisture compensators in percent as set on the control panel. (Required when accumulated or individual aggregate and RAP are printed in wet condition.)

(b) Batch Plants.

- (1) Date, month, year, and time to the nearest minute for each print.
- (2) HMA mix number assigned by the Department.
- (3) Individual virgin aggregate hot bin batch weights to the nearest pound (kilogram).
- (4) Mineral filler weight to the nearest pound (kilogram).
- (5) RAP weight to the nearest pound (kilogram).
- (6) Virgin asphalt binder weight to the nearest pound (kilogram).
- (7) Residual asphalt binder in the RAP material as a percent of the total mix to the nearest 0.1 percent.

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

1031.08 RAP in Aggregate Surface Course and Aggregate Shoulders. The use of RAP in aggregate surface course and aggregate shoulders shall be as follows.

- (a) Stockpiles and Testing. RAP stockpiles may be any of those listed in Article 1031.02, except "Other". The testing requirements of Article 1031.03 shall not apply.
- (b) Gradation. One hundred percent of the RAP material shall pass the 1 1/2 in. (37.5 mm) sieve. The RAP material shall be reasonably well graded from coarse to fine. RAP material that is gap-graded or single sized will not be accepted."

REFLECTIVE SHEETING ON CHANNELIZING DEVICES (BDE)

Effective: April 1, 2007

Revised: November 1, 2008

Revise the seventh paragraph of Article 1106.02 of the Standard Specifications to read:

"At the time of manufacturing, the retroreflective prismatic sheeting used on channelizing devices shall meet or exceed the initial minimum coefficient of retroreflection as specified in the following table. Measurements shall be conducted according to ASTM E 810, without averaging. Sheeting used on cones, drums and flexible delineators shall be reboundable as tested according to ASTM D 4956. Prestriped sheeting for rigid substrates on barricades shall be white and orange. The sheeting shall be uniform in color and devoid of streaks throughout the length of each roll. The color shall conform to the latest appropriate standard color tolerance chart issued by the U.S. Department of Transportation, Federal Highway Administration, and to the daytime and nighttime color requirements of ASTM D 4956.

Initial Minimum Coefficient of Retroreflection candelas/foot candle/sq ft (candelas/lux/sq m) of material				
Observation Angle (deg.)	Entrance Angle (deg.)	White	Orange	Fluorescent Orange
0.2	-4	365	160	150
0.2	+30	175	80	70
0.5	-4	245	100	95
0.5	+30	100	50	40"

Revise the first sentence of the first paragraph of Article 1106.02(c) of the Standard Specifications to read:

"Barricades and vertical panels shall have alternating white and orange stripes sloping downward at 45 degrees toward the side on which traffic will pass."

Revise the third sentence of the first paragraph of Article 1106.02(d) of the Standard Specifications to read:

"The bottom panels shall be 8 x 24 in. (200 x 600 mm) with alternating white and orange stripes sloping downward at 45 degrees toward the side on which traffic will pass."

80183

REINFORCEMENT BARS (BDE)

Effective: November 1, 2005

Revised: January 2, 2008

Revise Article 1006.10(a) of the Standard Specifications to read:

" (a) Reinforcement Bars. Reinforcement bars will be accepted according to the current Bureau of Materials and Physical Research Policy Memorandum, "Reinforcement Bar and/or Dowel Bar Plant Certification Procedure". The Department will maintain an approved list of producers.

(1) Reinforcement Bars (Non-Coated). Reinforcement bars shall be according to ASTM A 706 (A 706M), Grade 60 (420) for deformed bars and the following.

- a. For straight bars furnished in cut lengths and with a well-defined yield point, the yield point shall be determined as the elastic peak load, identified by a halt or arrest of the load indicator before plastic flow is sustained by the bar and dividing it by the nominal cross-sectional area of the bar.
- b. For bars without a well-defined yield point, including bars straightened from coils, the yield strength shall be determined by taking the corresponding load at 0.005 strain as measured by an extensometer (0.5% elongation under load) and dividing it by the nominal cross-sectional area of the bar.
- c. For bars straightened from coils or bars bent from fabrication, there shall be no upper limit on yield strength; and for bar designation Nos. 3 - 6 (10 - 19), the elongation after rupture shall be at least 9%.
- d. Heat Numbers. Bundles or bars at the construction site shall be marked or tagged with heat identification numbers of the bar producer.
- e. Guided Bend Test. Bars may be subject to a guided bend test across two pins which are free to rotate, where the bending force shall be centrally applied with a fixed or rotating pin of a certain diameter as specified in Table 3 of ASTM A 706 (A 706M). The dimensions and clearances of this guided bend test shall be according to ASTM E 190.
- f. Spiral Reinforcement. Spiral reinforcement shall be deformed or plain bars conforming to the above requirements or cold-drawn steel wire conforming to AASHTO M 32.

(2) Epoxy Coated Reinforcement Bars. Epoxy coated reinforcement bars shall be according to Article 1006.10(a)(1) and shall be epoxy coated according to AASHTO M 284 (M 284M) and the following.

- a. Certification. The epoxy coating applicator shall be certified according to the current Bureau of Materials and Physical Research Policy Memorandum, "Epoxy Coating Plant Certification Procedure". The Department will maintain an approved list.
- b. Coating Thickness. The thickness of the epoxy coating shall be 7 to 12 mils (0.18 to 0.30 mm). When spiral reinforcement is coated after fabrication, the thickness of the epoxy coating shall be 7 to 20 mils (0.18 to 0.50 mm).
- c. Cutting Reinforcement. Reinforcement bars may be sheared or sawn to length after coating, providing the end damage to the coating does not extend more than 0.5 in. (13 mm) back and the cut is patched before any visible rusting appears. Flame cutting will not be permitted."

80151

REINFORCEMENT BARS - STORAGE AND PROTECTION (BDE)

Effective: August 1, 2008

Revise Article 508.03 of the Standard Specifications to read:

508.03 Storage and Protection. Reinforcement bars, when delivered on the job, shall be stored off the ground using platforms, skids, or other supports; and shall be protected from mechanical injury and from deterioration by exposure. Epoxy coated bars shall be stored on wooden or padded steel cribbing and all systems for handling shall have padded contact areas. The bars or bundles shall not be dragged or dropped.

When it is necessary to store epoxy coated bars outside for more than two months, they shall be protected from sunlight, salt spray, and weather exposure. The protection shall consist of covering with opaque polyethylene sheeting or other suitable opaque material. The covering shall be secured and allow for air circulation around the bars to minimize condensation under the cover.

When placed in the work the bars shall be free from dirt, detrimental scale, paint, oil, or other foreign substances. A light coating of rust will not be considered objectionable on black bars."

80206

RETROREFLECTIVE SHEETING, NONREFLECTIVE SHEETING, AND TRANSLUCENT OVERLAY FILM FOR HIGHWAY SIGNS (BDE)

Effective: April 1, 2007

General. This special provision covers retroreflective sheeting and translucent overlay films intended for application on new or refurbished aluminum. The sheeting serves as the reflectorized background for sign messages and as cutout legends and symbols applied to the reflectorized background. Messages may be applied in opaque black or transparent colors.

This special provision also covers nonreflective sheeting for application on new or refurbished aluminum, and as material for cutout legends and symbols applied to the reflectorized background.

All material furnished under this specification shall have been manufactured within 18 months of the delivery date. All material shall be supplied by the same manufacturer.

Retroreflective Sheeting Properties. Retroreflective sheeting shall consist of a flexible, colored, prismatic, or glass lens elements adhered to a synthetic resin, encapsulated by a flexible, transparent plastic having a smooth outer surface and shall meet the following requirements.

Only suppliers whose products have been tested and approved in the Department's periodic Sheeting Study will be eligible to supply material. All individual batches and or lots of material shall be tested and approved by the Department. The Department reserves the right to sample and test delivered materials according to Federal Specification LS-300.

- (a) Adhesive. The sheeting shall have a Class 1, pre-coated, pressure sensitive adhesive according to ASTM D 4956. The adhesive shall have a protective liner that is easily removed when tested according to ASTM D 4956. The adhesive shall be capable of being applied to new or refurbished aluminum and reflectorized backgrounds without additional adhesive.
- (b) Color. The sheeting shall be uniform in color and devoid of streaks throughout the length of each roll. The color shall conform to the latest appropriate standard color tolerance chart issued by the U.S. Department of Transportation, Federal Highway Administration and to the daytime and nighttime color requirements of ASTM D 4956. Sheeting used for side by side overlay applications shall have a Hunter Lab Delta E of less than 3.
- (c) Coefficient of Retroreflection. When tested according to ASTM E 810, without averaging, the sheeting shall have a minimum coefficient of retroreflection as shown in the following tables. The brightness of the sheeting when totally wet shall be a minimum of 90 percent of the values shown when tested according to the standard rainfall test specified in Section 7.10.1 of AASHTO M 268-84.

Type A Sheeting
Minimum Coefficient of Retroreflection
candelas/foot candle/sq ft (candelas/lux/sq m) of material

Type A

Observation Angle (deg.)	Entrance Angle (deg.)	White	Yellow	Orange	Red	Green	Blue	Brown
0.2	-4	250	170	100	45	45	20	12
0.2	+30	150	100	60	25	25	12	8.5
0.5	-4	95	65	30	15	15	8	5
0.5	+30	75	50	25	10	10	5	3.5

Type AA Sheeting
 Minimum Coefficient of Retroreflection
 candelas/foot candle/sq ft (candelas/lux/sq m) of material

Type AA (0 and 90 degree rotation)

Observation Angle (deg.)	Entrance Angle (deg.)	White	Yellow	Red	Green	Blue	FO
0.2	-4	800	660	215	80	43	200
0.2	+30	400	340	100	35	20	120
0.5	-4	200	160	45	20	9.8	80
0.5	+30	100	85	26	10	5.0	50

Type AA (45 degree rotation)

Observation Angle (deg.)	Entrance Angle (deg.)	Yellow	FO
0.2	-4	550	165
0.2	+30	130	45
0.5	-4	145	70
0.5	+30	70	40

Type AP Sheeting
 Minimum Coefficient of Retroreflection
 candelas/foot candle/sq ft (candelas/lux/sq m) of material

Type AP

Observation Angle (deg.)	Entrance Angle (deg.)	White	Yellow	Red	Green	Blue	Brown	FO
0.2	-4	550	425	100	75	50	30	275
0.2	+30	200	150	40	35	25	15	90
0.5	-4	300	250	60	35	25	20	150
0.5	+30	100	70	20	20	10	5	50

Type AZ Sheeting
 Minimum Coefficient of Retroreflection
 candelas/foot candle/sq ft (candelas/lux/sq m) of material

Type AZ (0 degree rotation)

Observation Angle (deg.)	Entrance Angle (deg.)	White	Yellow	Red	Green	Blue	FYG	FY
0.2	-4	430	350	110	45	20	325	240
0.2	+30	235	140	60	24	11	200	150
0.5	-4	250	200	60	25	10	235	165
0.5	+30	170	135	40	19	7	105	75
1.0	-4	70	45	10	10	4	70	30
1.0	+30	30	20	7	5	2.5	45	15

Type AZ (90 degree rotation)

Observation Angle (deg.)	Entrance Angle (deg.)	White	Yellow	Red	Green	Blue	FYG	FY
0.2	-4	320	250	100	45	20	300	220
0.2	+30	235	140	40	24	11	200	150
0.5	-4	240	200	60	25	10	235	165
0.5	+30	100	85	20	10	7	80	75
1.0	-4	30	30	7	5	4	65	20
1.0	+30	15	15	5	2	2	30	10

- (d) Gloss. The sheeting surface shall exhibit a minimum 85 degree gloss-meter rating of 50 when tested according to ASTM D 523.
- (e) Durability. When processed and applied, the sheeting shall be weather resistant.

Accelerated weathering testing will be performed for 1000 hours (300 hours for orange/FO) according to ASTM G 151. The testing cycle will consist of 8 hours of light at 140 °F (60 °C), followed by 4 hours of condensation at 104 °F (40 °C). Following accelerated weathering, the sheeting shall exhibit a minimum of 80 percent of its initial minimum coefficient of retroreflection as listed in the previous tables.

Outdoor weathering will entail an annual evaluation of material placed in an outdoor rack with a 45 degree angle and a southern sun exposure. The sheeting will be evaluated for five years. Following weathering, the test specimens will be cleaned by immersing them in a five percent hydrochloric acid solution for 45 seconds, then rinsed with water and blotted dry with a soft clean cloth. Following cleaning, the applied sheeting shall show no appreciable discoloration, cracking, streaking, crazing, blistering, or dimensional change. The sheeting shall exhibit a Hunter Lab Delta E of 5 or less when compared to the original.

- (f) Shrinkage. When tested according to ASTM D 4956, the sheeting shall not shrink in any dimension more than 1/32 in. (0.8 mm) in ten minutes and not more than 1/8 in. (3 mm) in 24 hours.
- (g) Workability. The sheeting shall show no cracking, scaling, pitting, blistering, edge lifting, inter-film splitting, curling, or discoloration when processed and applied using mutually acceptable processing and application procedures.
- (h) Splices. A single roll of sheeting shall contain a maximum of four splices per 50 yd (45 m) length. The sheeting shall be overlapped a minimum of 3/16 in. (5 mm) at each splice.
- (i) Adhesive Bond. The sheeting shall form a durable bond to smooth, corrosion and weather-resistant surfaces and adhere securely when tested according to ASTM D 4956.
- (j) Positionability. Sheeting, with ASTM D 4956 Class 3 adhesive, used for manufacturing cutout legends and borders shall provide sufficient positionability during the fabrication process to permit removal and reapplication without damage to either the legend or sign background and shall have a plastic liner suitable for use on bed cutting machines. Thereafter, all other adhesive and bond requirements contained in the specification shall apply.

Positionability shall be verified by cutting 4 in. (100 mm) letters E, I, K, M, S, W, and Y out of the positionable material. The letters shall then be applied to a sheeted aluminum blank using a single pass of a two pound roller. The letters shall sit for five minutes and then a putty knife shall be used to lift a corner. The thumb and fore finger shall be used to slowly pull the lifted corner to lift letters away from the sheeted aluminum. The letters shall not tear or distort when removed.

- (k) Thickness. The thickness of the sheeting without the protective liner shall be less than or equal to 0.015 in. (0.4 mm), or 0.025 in. (0.6 mm) for prismatic material.
- (l) Processing. The sheeting shall permit cutting and color processing according to the sheeting manufacturer's specifications at temperatures of 60 to 100 °F (15 to 38 °C) and within a relative humidity range of 20 to 80 percent. The sheeting shall be heat resistant and permit forced curing without staining the applied or unapplied sheeting at temperatures recommended by the manufacturer. The sheeting shall be solvent resistant and capable of being cleaned with VM&P naphtha, mineral spirits, and turpentine.

Transparent color and opaque black inks shall be single component and low odor. The inks shall dry within eight hours and not require clear coating. After color processing on white sheeting, the sheeting shall show no appreciable discoloration, cracking, streaking, crazing, blistering, or dimensional change when tested for durability (e). The ink on the weathered, prepared panel shall exhibit a Hunter Lab Delta E of 5 or less when compared to the original.

Transparent color electronic cutting films shall be acrylic. After application to white sheeting, the films shall show no appreciable discoloration, cracking, streaking, crazing, blistering, or dimensional change when tested for durability (e). The films on the weathered, prepared panel shall exhibit a Hunter Lab Delta E of 5 or less when compared to the original.

Transparent colors screened, or transparent acrylic electronic cutting films, on white sheeting, shall have a minimum initial coefficient of retroreflection values of 50 percent for yellow and red, and a minimum 70 percent for green, blue, and brown of the 0.2 degree observation angle/-4.0 degree entrance angle values as listed in the previous tables for the color being applied. After durability testing, the colors shall retain a minimum 80 percent of the initial coefficient of retroreflection.

- (m) Identification. The sheeting shall have a distinctive overall pattern in the sheeting unique to the manufacturer. If material orientation is required for optimum retroreflectivity, permanent orientation marks shall be incorporated into the face of the sheeting. Neither the overall pattern nor the orientation marks shall interfere with the reflectivity of the sheeting.
- (n) Packaging. Both ends of each box shall be clearly labeled with the sheeting type, color, adhesive type, manufacturer's lot number, date of manufacture, and supplier's name. Material Safety Data Sheets and technical bulletins for all materials shall be furnished to the Department with each shipment.

Nonreflective Sheeting Properties. Nonreflective sheeting shall consist of a flexible, pigmented cast vinyl film having a smooth, flat outer surface and shall meet the following requirements.

The Department reserves the right to sample and test delivered materials according to Federal Specification LS-300.

- (a) Adhesive. The sheeting shall have a Class 1, pre-coated, pressure sensitive adhesive according to ASTM D 4956. The adhesive shall have a protective liner that is easily removed when tested according to ASTM D 4956. The adhesive shall be capable of being applied to new or refurbished aluminum and reflectorized backgrounds without additional adhesive.
- (b) Color. The sheeting shall be uniform in color and devoid of streaks throughout the length of each roll.
- (c) Gloss. The sheeting shall exhibit a minimum 85 degree gloss-meter rating of 40 when tested according to ASTM D 523.
- (d) Durability. Applied sheeting that has been vertically exposed to the elements for seven years shall show no appreciable discoloration, cracking, crazing, blistering, delamination, or loss of adhesion. A slight amount of chalking is permitted but the sheeting shall not support fungus growth.

(e) Testing. Test panels shall be prepared by applying the sheeting to 6 1/2 x 6 1/2 in. (165 x 165 mm) pieces of aluminum according to the manufacturer's specifications. The edges of the panel shall be trimmed evenly and aged 48 hours at 70 to 90 °F (21 to 32 °C). Shrinkage and immersion testing shall be as follows.

- (1) Shrinkage. The sheeting shall not shrink more than 1/64 in. (0.4 mm) from any panel edge when subjected to a temperature of 150 °F (66 °C) for 48 hours and shall be sufficiently heat resistant to retain adhesion after one week at 150 °F (66 °C).
- (2) Immersion Testing. The sheeting shall show no appreciable decrease in adhesion, color, or general appearance when examined one hour after being immersed to a depth of 2 or 3 in. (50 or 75 mm) in the following solutions at 70 to 90 °F (21 to 32 °C) for specified times.

Solution	Immersion Time (hours)
Reference Fuel (M I L-F-8799A) (15 parts xylol and 85 parts mineral spirits by weight)	1
Distilled Water	24
SAE No. 20 Motor Oil	24
Antifreeze (1/2 ethylene glycol, 1/2 distilled water)	24

- (f) Adhesive Bond: The sheeting shall form a durable bond to smooth, corrosion and weather-resistant surfaces and adhere securely when tested according to ASTM D 4956.
- (g) Thickness. The thickness of the sheeting without the protective liner shall be a maximum of 0.005 in. (0.13 mm).
- (h) Cutting. Material used on bed cutting machines shall have a smooth plastic liner.
- (i) Identification. The sheeting shall have a distinctive overall pattern in the sheeting unique to the manufacturer. If material orientation is required for optimum retroreflectivity, permanent orientation marks shall be incorporated into the face of the sheeting. Neither the overall pattern nor the orientation marks shall interfere with the reflectivity of the sheeting.
- (j) Packaging. Both ends of each box shall be clearly labeled with the sheeting type, color, adhesive type, manufacturer's lot number, date of manufacture, and supplier's name. Material Safety Data Sheets and technical bulletins for all materials shall be furnished to the Department with each shipment.

SEEDING (BDE)

Effective: July 1, 2004

Revised: January 1, 2009

Revise the following seeding mixtures shown in Table 1 of Article 250.07 of the Standard Specifications to read:

"Table 1 - SEEDING MIXTURES		
Class - Type	Seeds	lb/acre (kg/hectare)
2 Roadside Mixture 7/	Tall Fescue (Inferno, Tarheel II, Quest, Blade Runner, or Falcon IV)	100 (110)
	Perennial Ryegrass	50 (55)
	Creeping Red Fescue	40 (50)
	Red Top	10 (10)
2A Salt Tolerant Roadside Mixture 7/	Tall Fescue (Inferno, Tarheel II, Quest, Blade Runner, or Falcon IV)	60 (70)
	Perennial Ryegrass	20 (20)
	Red Fescue (Audubon, Sea Link, or Epic)	30 (20)
	Hard Fescue (Rescue 911, Spartan II, or Reliant IV)	30 (20)
	Fults Salt Grass 1/	60 (70)"

Revise Note 7 of Table 1 – Seeding Mixtures of Article 250.07 of the Standard Specifications to read:

"7/ In Districts 1 through 6, the planting times shall be April 1 to June 15 and August 1 to November 1. In Districts 7 through 9, the planting times shall be March 1 to June 1 and August 1 to November 15. Seeding may be performed outside these dates provided the Contractor guarantees a minimum of 75 percent uniform growth over the entire seeded area(s) after a period of establishment. Inspection dates for the period of establishment will be as follows: Seeding conducted in Districts 1 through 6 between June 16 and July 31 will be inspected after April 15 and seeding conducted between November 2 and March 31 will be inspected after September 15. Seeding conducted in Districts 7 through 9 between June 2 and July 31 will be inspected after April 15 and seeding conducted between November 16 and February 28 will be inspected after September 15. The guarantee shall be submitted to the Engineer in writing prior to performing the work. After the period of establishment, areas not exhibiting 75 percent uniform growth shall be interseeded or reseeded, as determined by the Engineer, at no additional cost to the Department."

Revise Table II of Article 1081.04(c)(6) of the Standard Specifications to read:

TABLE II						
Variety of Seeds	Hard Seed	Purity	Pure Live	Weed	Secondary *	Notes
	% Max.	% Min.	Seed % Min.	% Max.	No. per oz (kg) Max. Permitted	
Alfalfa	20	92	89	0.50	6 (211)	1/
Clover, Alsike	15	92	87	0.30	6 (211)	2/
Red Fescue, Audubon	0	97	82	0.10	3 (105)	-
Red Fescue, Creeping	-	97	82	1.00	6 (211)	-
Red Fescue, Epic	-	98	83	0.05	1 (35)	-
Red Fescue, Sea Link	-	98	83	0.10	3 (105)	-
Tall Fescue, Blade Runner	-	98	83	0.10	2 (70)	-
Tall Fescue, Falcon IV	-	98	83	0.05	1 (35)	-
Tall Fescue, Inferno	0	98	83	0.10	2 (70)	-
Tall Fescue, Tarheel II	-	97	82	1.00	6 (211)	-
Tall Fescue, Quest	0	98	83	0.10	2 (70)	-
Fults Salt Grass	0	98	85	0.10	2 (70)	-
Kentucky Bluegrass	-	97	80	0.30	7 (247)	4/
Oats	-	92	88	0.50	2 (70)	3/
Redtop	-	90	78	1.80	5 (175)	3/
Ryegrass, Perennial, Annual	-	97	85	0.30	5 (175)	3/
Rye, Grain, Winter	-	92	83	0.50	2 (70)	3/
Hard Fescue, Reliant IV	-	98	83	0.05	1 (35)	-
Hard Fescue, Rescue 911	0	97	82	0.10	3 (105)	-
Hard Fescue, Spartan II	-	98	83	0.10	3 (105)	-
Timothy	-	92	84	0.50	5 (175)	3/
Wheat, hard Red Winter	-	92	89	0.50	2 (70)	3/

Revise the first sentence of the first paragraph of Article 1081.04(c)(7) of the Standard Specifications to read:

"The seed quantities indicated per acre (hectare) for Prairie Grass Seed in Classes 3, 3A, 4, 4A, 6, and 6A in Article 250.07 shall be the amounts of pure, live seed per acre (hectare) for each species listed."

80131

SELF-CONSOLIDATING CONCRETE FOR PRECAST PRODUCTS (BDE)

Effective: July 1, 2004

Revised: January 1, 2007

Definition. Self-consolidating concrete is a flowable mixture that does not require mechanical vibration for consolidation.

Usage. Self-consolidating concrete may be used for precast concrete products.

Materials. Materials shall be according to Section 1021 of the Standard Specifications.

Mix Design Criteria. The mix design criteria shall be as follows:

- (a) The minimum cement factor shall be according to Article 1020.04 of the Standard Specifications. If the maximum cement factor is not specified, it shall not exceed 7.05 cwt/cu yd (418 kg/cu m).
- (b) The maximum allowable water/cement ratio shall be according to Article 1020.04 of the Standard Specifications or 0.44, whichever is lower.
- (c) The slump requirements of Article 1020.04 of the Standard Specifications shall not apply.
- (d) The coarse aggregate gradations shall be CA 13, CA 14, CA 16, or a blend of these gradations. CA 11 may be used when the Contractor provides satisfactory evidence to the Engineer that the mix will not segregate. The fine aggregate proportion shall be a maximum 50 percent by weight (mass) of the total aggregate used.
- (e) The slump flow range shall be ± 2 in. (± 50 mm) of the Contractor target value, and within the overall Department range of 20 in. (510 mm) minimum to 28 in. (710 mm) maximum.
- (f) The visual stability index shall be a maximum of 1.
- (g) The J-ring value shall be a maximum of 4 in. (100 mm). The Contractor may specify a lower maximum in the mix design.
- (h) The L-box blocking ratio shall be a minimum of 60 percent. The Contractor may specify a higher minimum in the mix design.
- (i) The column segregation index shall be a maximum 15 percent.
- (j) The hardened visual stability index shall be a maximum of 1.

Placing and Consolidating. The maximum distance of horizontal flow from the point of deposit shall be 25 ft (7.6 m), unless approved otherwise by the Engineer.

Concrete shall be rodded with a piece of lumber, conduit, or vibrator if the material has lost its fluidity prior to placement of additional concrete. The vibrator shall be the pencil head type with a maximum diameter or width of 1 in. (25 mm). Any other method for restoring the fluidity of the concrete shall be approved by the Engineer.

Mix Design Approval. The Contractor shall obtain mix design approval according to the Department's Policy Memorandum "Quality Control/Quality Assurance Program for Precast Concrete Products".

80132

SIGN PANELS AND SIGN PANEL OVERLAYS (BDE)

Effective: November 1, 2008

Description. This work shall consist of furnishing, fabricating, and installing sign panels and/or sign panel overlays. Work shall be according to Sections 720 and 721 of the Standard Specifications, except as modified herein.

Materials. Type AP and AZ sheeting shall meet the requirements of the special provision, "Retroreflective Sheeting, Nonreflective Sheeting, and Translucent Overlay Film for Highway Signs". Type ZZ sheeting shall meet the requirements of the special provision, "Type ZZ Retroreflective Sheeting, Nonreflective Sheeting, and Translucent Overlay Film for Highway Signs".

The sheeting for the background, legend, border, shields, and symbols shall be provided by the same manufacturer.

CONSTRUCTION REQUIREMENTS

Fabrication. Signs shall be fabricated according to the current Bureau of Operations Policy Memorandum, "Fabrication of Highway Signs", the MUTCD, the FHWA Standard Highway Signs manual, the Illinois standard highway signs, and as shown on the plans.

Signs shall be fabricated such that the material for the background, legend, border, shields, and symbols is applied in the preferred orientation for the maximum retroreflectivity per the manufacturer's recommendation. The nesting of legend, border, shields, or symbols will not be permitted.

80212

SILT FILTER FENCE (BDE)

Effective: January 1, 2008

For silt filter fence fabric only, revise Article 1080.02 of the Standard Specifications to read:

“1080.02 Geotextile Fabric. The fabric for silt filter fence shall be a woven fabric meeting the requirements of AASHTO M 288 for unsupported silt fence with less than 50 percent geotextile elongation.”

Replace the last sentence of Article 1081.15(b) of the Standard Specifications with the following:

“Silt filter fence stakes shall be a minimum of 4 ft (1.2 m) long and made of either wood or metal. Wood stakes shall be 2 in. x 2 in. (50 mm x 50 mm). Metal stakes shall be a standard T or U shape having a minimum weight (mass) of 1.32 lb/ft (600 g/300 mm).”

80197

STEEL COST ADJUSTMENT (BDE) (RETURN FORM WITH BID)

Effective: April 2, 2004

Revised: April 1, 2007

Description. Steel cost adjustments will be made to provide additional compensation to the Contractor, or a credit to the Department, for fluctuations in steel prices when optioned by the Contractor. The bidder shall indicate on the attached form whether or not this special provision will be part of the contract and submit the completed form with his/her bid. Failure to submit the form, or failure to fill out the form completely, shall make this contract exempt of steel cost adjustments.

Types of Steel Products. An adjustment will be made for fluctuations in the cost of steel used in the manufacture of the following items:

- Metal Piling (excluding temporary sheet piling)
- Structural Steel
- Reinforcing Steel

Other steel materials such as dowel bars, tie bars, mesh reinforcement, guardrail, steel traffic signal and light poles, towers and mast arms, metal railings (excluding wire fence), frames and grates, and other miscellaneous items will be subject to a steel cost adjustment when the pay item they are used in has a contract value of \$10,000 or greater.

Documentation. Sufficient documentation shall be furnished to the Engineer to verify the following:

- (a) Evidence that increased or decreased steel costs have been passed on to the Contractor.
- (b) The dates and quantity of steel, in lb (kg), shipped from the mill to the fabricator.
- (c) The quantity of steel, in lb (kg), incorporated into the various items of work covered by this special provision. The Department reserves the right to verify submitted quantities.

Method of Adjustment. Steel cost adjustments will be computed as follows:

$$SCA = Q \times D$$

Where: SCA = steel cost adjustment, in dollars

Q = quantity of steel incorporated into the work, in lb (kg)

D = price factor, in dollars per lb (kg)

$$D = CBP_M - CBP_L$$

Where: CBP_M = The average of the Consumer Buying Price indices for Shredded Auto Scrap (Chicago) and No. 1 Heavy Melt (Chicago) as published by the American Metal Market (AMM) for the day the steel is shipped from the mill. The indices will be converted from dollars per ton to dollars per lb (kg).

CBP_L = The average of the Consumer Buying Price indices for Shredded Auto Scrap (Chicago) and No. 1 Heavy Melt (Chicago) as published by the AMM for the day the contract is let. The indices will be converted from dollars per ton to dollars per lb (kg).

The unit weights (masses) of steel that will be used to calculate the steel cost adjustment for the various items are shown in the attached table.

No steel cost adjustment will be made for any products manufactured from steel having a mill shipping date prior to the letting date.

If the Contractor fails to provide the required documentation, the method of adjustment will be calculated as described above; however, the CBP_M will be based on the date the steel arrives at the job site. In this case, an adjustment will only be made when there is a decrease in steel costs.

Basis of Payment. Steel cost adjustments may be positive or negative but will only be made when there is a difference between the CBP_L and CBP_M in excess of five percent, as calculated by:

$$\text{Percent Difference} = \{(CBP_L - CBP_M) \div CBP_L\} \times 100$$

Steel cost adjustments will be calculated by the Engineer and will be paid or deducted when all other contract requirements for the items of work are satisfied. Adjustments will only be made for fluctuations in the cost of the steel as described herein. No adjustment will be made for changes in the cost of manufacturing, fabrication, shipping, storage, etc.

The adjustments shall not apply during contract time subject to liquidated damages for completion of the entire contract.

Attachment

Item	Unit Mass (Weight)
Metal Piling (excluding temporary sheet piling)	
Furnishing Metal Pile Shells 12 in. (305 mm), 0.179 in. (3.80 mm) wall thickness)	23 lb/ft (34 kg/m)
Furnishing Metal Pile Shells 12 in. (305 mm), 0.250 in. (6.35 mm) wall thickness)	32 lb/ft (48 kg/m)
Furnishing Metal Pile Shells 14 in. (356 mm), 0.250 in. (6.35 mm) wall thickness)	37 lb/ft (55 kg/m)
Other piling	See plans
Structural Steel	See plans for weights (masses)
Reinforcing Steel	See plans for weights (masses)
Dowel Bars and Tie Bars	6 lb (3 kg) each
Mesh Reinforcement	63 lb/100 sq ft (310 kg/sq m)
Guardrail	
Steel Plate Beam Guardrail, Type A w/steel posts	20 lb/ft (30 kg/m)
Steel Plate Beam Guardrail, Type B w/steel posts	30 lb/ft (45 kg/m)
Steel Plate Beam Guardrail, Types A and B w/wood posts	8 lb/ft (12 kg/m)
Steel Plate Beam Guardrail, Type 2	305 lb (140 kg) each
Steel Plate Beam Guardrail, Type 6	1260 lb (570 kg) each
Traffic Barrier Terminal, Type 1 Special (Tangent)	730 lb (330 kg) each
Traffic Barrier Terminal, Type 1 Special (Flared)	410 lb (185 kg) each
Steel Traffic Signal and Light Poles, Towers and Mast Arms	
Traffic Signal Post	11 lb/ft (16 kg/m)
Light Pole, Tenon Mount and Twin Mount, 30 - 40 ft (9 - 12 m)	14 lb/ft (21 kg/m)
Light Pole, Tenon Mount and Twin Mount, 45 - 55 ft (13.5 - 16.5 m)	21 lb/ft (31 kg/m)
Light Pole w/Mast Arm, 30 - 50 ft (9 - 15.2 m)	13 lb/ft (19 kg/m)
Light Pole w/Mast Arm, 55 - 60 ft (16.5 - 18 m)	19 lb/ft (28 kg/m)
Light Tower w/Luminaire Mount, 80 - 110 ft (24 - 33.5 m)	31 lb/ft (46 kg/m)
Light Tower w/Luminaire Mount, 120 - 140 ft (36.5 - 42.5 m)	65 lb/ft (97 kg/m)
Light Tower w/Luminaire Mount, 150 - 160 ft (45.5 - 48.5 m)	80 lb/ft (119 kg/m)
Metal Railings (excluding wire fence)	
Steel Railing, Type SM	64 lb/ft (95 kg/m)
Steel Railing, Type S-1	39 lb/ft (58 kg/m)
Steel Railing, Type T-1	53 lb/ft (79 kg/m)
Steel Bridge Rail	52 lb/ft (77 kg/m)
Frames and Grates	
Frame	250 lb (115 kg)
Lids and Grates	150 lb (70 kg)

Return With Bid

**ILLINOIS DEPARTMENT
OF TRANSPORTATION**

**OPTION FOR
STEEL COST ADJUSTMENT**

The bidder shall submit this completed form with his/her bid. Failure to submit the form, or failure to fill out the form completely, shall make this contract exempt of steel cost adjustments. After award, this form, when submitted shall become part of the contract.

Contract No.: _____

Company Name: _____

Contractor's Option:

Is your company opting to include this special provision as part of the contract plans?

Yes No

Signature: _____ Date: _____

80127

STONE GRADATION TESTING (BDE)

Effective: November 1, 2007

Revise the first sentence of note 1/ of the Erosion Protection and Sediment Control Gradations table of Article 1005.01(c)(1) of the Standard Specifications to read:

“A maximum of 15 percent of the total test sample by weight may be oversize material.”

80191

SUBCONTRACTOR MOBILIZATION PAYMENTS (BDE)

Effective: April 2, 2005

To account for the preparatory work and operations necessary for the movement of subcontractor personnel, equipment, supplies, and incidentals to the project site and for all other work or operations that must be performed or costs incurred when beginning work approved for subcontracting in accordance with Article 108.01 of the Standard Specifications, the Contractor shall make a mobilization payment to each subcontractor.

This mobilization payment shall be made at least 14 days prior to the subcontractor starting work. The amount paid shall be equal to 3 percent of the amount of the subcontract reported on form BC 260A submitted for the approval of the subcontractor's work.

This provision shall be incorporated directly or by reference into each subcontract approved by the Department.

80143

TEMPORARY EROSION CONTROL (BDE)

Effective: November 1, 2002

Revised: January 1, 2008

Revise the third paragraph of Article 280.03 of the Standard Specifications to read:

"Erosion control systems shall be installed prior to beginning any activities which will potentially create erodible conditions. Erosion control systems for areas outside the limits of construction such as storage sites, plant sites, waste sites, haul roads, and Contractor furnished borrow sites shall be installed prior to beginning soil disturbing activities at each area. These offsite systems shall be designed by the Contractor and be subject to the approval of the Engineer."

Add the following paragraph after the third paragraph of Article 280.03 of the Standard Specifications:

"The temporary erosion and sediment control systems shown on the plans represent the minimum systems anticipated for the project. Conditions created by the Contractor's operations, or for the Contractor's convenience, which are not covered by the plans, shall be protected as directed by the Engineer at no additional cost to the Department. Revisions or modifications of the erosion and sediment control systems shall have the Engineer's written approval."

Add the following paragraph after the ninth paragraph of Article 280.07 of the Standard Specifications:

"Temporary or permanent erosion control systems required for areas outside the limits of construction will not be measured for payment."

Delete the tenth (last) paragraph of Article 280.08 of the Standard Specifications.

80087

THERMOPLASTIC PAVEMENT MARKINGS (BDE)

Effective: January 1, 2007

Revise Article 1095.01(a)(2) of the Standard Specifications to read:

"(2) Pigment. The pigment used for the white thermoplastic compound shall be a high-grade pure (minimum 93 percent) titanium dioxide (TiO₂). The white pigment content shall be a minimum of ten percent by weight and shall be uniformly distributed throughout the thermoplastic compound.

The pigments used for the yellow thermoplastic compound shall not contain any hazardous materials listed in the Environmental Protection Agency Code of Federal Regulations (CFR) 40, Section 261.24, Table 1. The combined total of RCRA listed heavy metals shall not exceed 100 ppm when tested by X-ray fluorescence spectroscopy. The pigments shall also be heat resistant, UV stable and color-fast yellows, golds, and oranges, which shall produce a compound which shall match Federal Standard 595 Color No. 33538. The pigment shall be uniformly distributed throughout the thermoplastic compound."

Revise Article 1095.01(b)(1)e. of the Standard Specifications to read:

"e. Daylight Reflectance and Color. The thermoplastic compound after heating for four hours ± five minutes at 425 ± 3 °F (218.3 ± 2 °C) and cooled at 77 °F (25 °C) shall meet the following requirements for daylight reflectance and color, when tested, using a color spectrophotometer with 45 degree circumferential/zero degree geometry, illuminant C, and two degree observer angle. The color instrument shall measure the visible spectrum from 380 to 720 nm with a wavelength measurement interval and spectral bandpass of 10 nm.

White: Daylight Reflectance75 percent min.

*Yellow: Daylight Reflectance45 percent min.

*Shall meet the coordinates of the following color tolerance chart.

x	0.490	0.475	0.485	0.530
y	0.470	0.438	0.425	0.456"

Revise Article 1095.01(b)(1)k. of the Standard Specifications to read:

"k. Accelerated Weathering. After heating the thermoplastic for four hours ± five minutes at 425 ± 3 °F (218.3 ± 2 °C) the thermoplastic shall be applied to a steel wool abraded aluminum alloy panel (Federal Test Std. No. 141, Method 2013) at a film thickness of 30 mils (0.70 mm) and allowed to cool for 24 hours at room temperature. The coated panel shall be subjected to accelerated weathering

using the light and water exposure apparatus (fluorescent UV - condensation type) for 75 hours according to ASTM G 53 (equipped with UVB-313 lamps).

The cycle shall consist of four hours UV exposure at 122 °F (50 °C) followed by four hours of condensation at 104 °F (40 °C). UVB 313 bulbs shall be used. At the end of the exposure period, the panel shall not exceed 10 Hunter Lab Delta E units from the original material."

80176

TRAINING SPECIAL PROVISIONS (BDE) This Training Special Provision supersedes Section 7b of the Special Provision entitled "Specific Equal Employment Opportunity Responsibilities," and is in implementation of 23 U.S.C. 140(a).

As part of the contractor's equal employment opportunity affirmative action program, training shall be provided as follows:

The contractor shall provide on-the-job training aimed at developing full journeyman in the type of trade or job classification involved. The number of trainees to be trained under this contract will be 1. In the event the contractor subcontracts a portion of the contract work, he shall determine how many, if any, of the trainees are to be trained by the subcontractor, provided however, that the contractor shall retain the primary responsibility for meeting the training requirements imposed by this special provision. The contractor shall also insure that this Training Special Provision is made applicable to such subcontract. Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training.

The number of trainees shall be distributed among the work classifications on the basis of the contractor's needs and the availability of journeymen in the various classifications within the reasonable area of recruitment. Prior to commencing construction, the contractor shall submit to the Illinois Department of Transportation for approval the number of trainees to be trained in each selected classification and training program to be used. Furthermore, the contractor shall specify the starting time for training in each of the classifications. The contractor will be credited for each trainee employed by him on the contract work who is currently enrolled or becomes enrolled in an approved program and will be reimbursed for such trainees as provided hereinafter.

Training and upgrading of minorities and women toward journeyman status is a primary objective of this Training Special Provision. Accordingly, the contractor shall make every effort to enroll minority trainees and women (e.g. by conducting systematic and direct recruitment through public and private sources likely to yield minority and women trainees) to the extent such persons are available within a reasonable area of recruitment. The contractor will be responsible for demonstrating the steps that he has taken in pursuance thereof, prior to a determination as to whether the contractor is in compliance with this Training Special Provision. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training, whether a member of a minority group or not.

No employee shall be employed as a trainee in any classification in which he has successfully completed a training course leading to journeyman status or in which he has been employed as a journeyman. The contractor should satisfy this requirement by including appropriate questions in the employee application or by other suitable means. Regardless of the method used the contractor's records should document the findings in each case.

The minimum length and type of training for each classification will be as established in the training program selected by the contractor and approved by the Illinois Department of Transportation and the Federal Highway Administration. The Illinois Department of Transportation and the Federal Highway Administration shall approve a program, if it is reasonably calculated to meet the equal employment opportunity obligations of the contractor and to qualify the average trainee for journeyman status in the classification concerned by the end of the training period. Furthermore, apprenticeship programs registered with the U.S. Department of Labor, Bureau of Apprenticeship and Training, or with a State apprenticeship agency recognized by the Bureau and training programs approved by not necessarily sponsored by the U.S. Department of Labor, Manpower Administration, Bureau of Apprenticeship and Training shall also be considered acceptable provided it is being administered in a manner consistent with the equal employment obligations of Federal-aid highway construction contracts. Approval or acceptance of a training program shall be obtained from the State prior to commencing work on the classification covered by the program. It is the intention of these provisions that training is to be provided in the construction crafts rather than clerk-typists or secretarial-type positions. Training is permissible in lower level management positions such as office engineers, estimators, timekeepers, etc., where the training is oriented toward construction applications. Training in the laborer classification may be permitted provided that significant and meaningful training is provided and approved by the Illinois Department of Transportation and the Federal Highway Administration. Some offsite training is permissible as long as the training is an integral part of an approved training program and does not comprise a significant part of the overall training.

Except as otherwise noted below, the contractor will be reimbursed 80 cents per hour of training given an employee on this contract in accordance with an approved training program. As approved by the Engineer, reimbursement will be made for training of persons in excess of the number specified herein. This reimbursement will be made even though the contractor receives additional training program funds from other sources, provided such other source does not specifically prohibit the contractor from receiving other reimbursement. Reimbursement for offsite training indicated above may only be made to the contractor where he does one or more of the following and the trainees are concurrently employed on a Federal-aid project; contributes to the cost of the training, provides the instruction to the trainee or pays the trainee's wages during the offsite training period.

No payment shall be made to the contractor if either the failure to provide the required training, or the failure to hire the trainee as a journeyman, is caused by the contractor and evidences a lack of good faith on the part of the contractor in meeting the requirement of this Training Special Provision. It is normally expected that a trainee will begin his training on the project as soon as feasible after start of work utilizing the skill involved and remain on the project as long as training opportunities exist in his work classification or until he has completed his training program.

It is not required that all trainees be on board for the entire length of the contract. A contractor will have fulfilled his responsibilities under this Training Special Provision if he has provided acceptable training to the number of trainees specified. The number trained shall be determined on the basis of the total number enrolled on the contract for a significant period.

Trainees will be paid at least 60 percent of the appropriate minimum journeyman's rate specified in the contract for the first half of the training period, 75 percent for the third quarter of the training period, and 90 percent for the last quarter of the training period, unless apprentices or trainees in an approved existing program are enrolled as trainees on this project. In that case, the appropriate rates approved by the Departments of Labor or Transportation in connection with the existing program shall apply to all trainees being trained for the same classification who are covered by this Training Special Provision.

The contractor shall furnish the trainee a copy of the program he will follow in providing the training. The contractor shall provide each trainee with a certification showing the type and length of training satisfactorily complete.

The contractor will provide for the maintenance of records and furnish periodic reports documenting his performance under this Training Special Provision.

METHOD OF MEASUREMENT The unit of measurement is in hours.

BASIS OF PAYMENT This work will be paid for at the contract unit price of 80 cents per hour for TRAINEES. The estimated total number of hours, unit price and total price have been included in the schedule of prices.

20338

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$10,000 or more.)

**REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS**

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ATTACHMENTS

- A. Employment Preference for Appalachian Contracts
(included in Appalachian contracts only)

I. GENERAL

1. These contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

2. Except as otherwise provided for in each section, the contractor shall insert in each subcontract all of the stipulations contained in these Required Contract Provisions, and further require their inclusion in any lower tier subcontract or purchase order that may in turn be made. The Required Contract Provisions shall not be incorporated by reference in any case. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with these Required Contract Provisions.

3. A breach of any of the stipulations contained in these Required Contract Provisions shall be sufficient grounds for termination of the contract.

4. A breach of the following clauses of the Required Contract Provisions may also be grounds for debarment as provided in 29 CFR 5.12:

- Section I, paragraph 2;
- Section IV, paragraphs 1, 2, 3, 4 and 7;
- Section V, paragraphs 1 and 2a through 2g.

5. Disputes arising out of the labor standards provisions of Section IV (except paragraph 5) and Section V of these Required Contract Provisions shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the U.S. Department of Labor (DOL) as set forth in 29 CFR 5, 6 and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the DOL, or the contractor's employees or their representatives.

6. Selection of Labor: During the performance of this contract, the contractor shall not:

- a. Discriminate against labor from any other State, possession, or territory of the United States (except for employment preference for Appalachian contracts, when applicable, as specified in Attachment A), or
- b. Employ convict labor for any purpose within the limits of the project unless it is labor performed by convicts who are on parole, supervised release, or probation.

II. NONDISCRIMINATION

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630 and 41 CFR 60 (and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The Equal Opportunity Construction Contract Specifications set forth under 41 CFR 60-4.3 and the provisions of the American Disabilities Act of 1990 (42 U.S.C. 12101 *et seq.*) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the State highway agency (SHA) and the Federal Government in carrying out EEO obligations and in their review of his/her activities under the contract.

b. The contractor will accept as his operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, preapprenticeship, and/or on-the-job-training."

2. EEO Officer: The contractor will designate and make known to the SHA contracting officers an EEO Officer who will have the responsibility for an must be capable of effectively administering and promoting an active contractor program of EEO and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above

agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minority group employees.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minority groups in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employees referral sources likely to yield qualified minority group applicants. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish which such identified sources procedures whereby minority group applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, he is expected to observe the provisions of that agreement to the extent that the system permits the contractor's compliance with EEO contract provisions. (The DOL has held that where implementation of such agreements have the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Executive Order 11246, as amended.)

c. The contractor will encourage his present employees to refer minority group applicants for employment. Information and procedures with regard to referring minority group applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any

evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with his obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of his avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minority group and women employees, and applicants for employment.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision.

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of minority group and women employees and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use his/her best efforts to obtain the cooperation of such unions to increase opportunities for minority groups and women within the unions, and to effect referrals by such unions of minority and female employees. Actions by the contractor either directly or through a contractor's association acting as agent will include the procedures set forth below:

a. The contractor will use best efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minority group members and women for membership in the unions and increasing the skills of minority group employees and women so that they may qualify for higher paying employment.

b. The contractor will use best efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to

the SHA and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of minority and women referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or quailifiable minority group persons and women. (The DOL has held that it shall be no excuse that the union with which the contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority employees.) In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the SHA.

8. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment.

a. The contractor shall notify all potential subcontractors and suppliers of his/her EEO obligations under this contract.

b. Disadvantaged business enterprises (DBE), as defined in 49 CFR 23, shall have equal opportunity to compete for and perform subcontracts which the contractor enters into pursuant to this contract. The contractor will use his best efforts to solicit bids from and to utilize DBE subcontractors or subcontractors with meaningful minority group and female representation among their employees. Contractors shall obtain lists of DBE construction firms from SHA personnel.

c. The contractor will use his best efforts to ensure subcontractor compliance with their EEO obligations.

9. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives of the SHA and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women;

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minority and female employees; and

(4) The progress and efforts being made in securing the services of DBE subcontractors or subcontractors with meaningful minority and female representation among their employees.

b. The contractors will submit an annual report to the SHA each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data.

III. NONSEGREGATED FACILITIES

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$10,000 or more.)

a. By submission of this bid, the execution of this contract or subcontract, or the consummation of this material supply agreement or purchase order, as appropriate, the bidder, Federal-aid construction contractor, subcontractor, material supplier, or vendor, as appropriate, certifies that the firm does not maintain or provide for its employees any segregated facilities at any of its establishments, and that the firm does not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. The firm agrees that a breach of this certification is a violation of the EEO provisions of this contract. The firm further certifies that no employee will be denied access to adequate facilities on the basis of sex or disability.

b. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, timeclocks, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive, or are, in fact, segregated on the basis of race, color, religion, national origin, age or disability, because of habit, local custom, or otherwise. The only exception will be for the disabled when the demands for accessibility override (e.g. disabled parking).

c. The contractor agrees that it has obtained or will obtain identical certification from proposed subcontractors or material suppliers prior to award of subcontracts or consummation of material supply agreements of \$10,000 or more and that it will retain such certifications in its files.

IV. PAYMENT OF PREDETERMINED MINIMUM WAGE

(Applicable to all Federal-aid construction contracts exceeding \$2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural minor collectors, which are exempt.)

1. General:

a. All mechanics and laborers employed or working upon the site of the work will be paid unconditionally and not less often than once a week and without subsequent deduction or rebate on any account [except such payroll deductions as are permitted by regulations (29 CFR 3) issued by the Secretary of Labor under the Copeland Act (40 U.S.C. 276c)] the full amounts of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment. The payment shall be computed at wage rates not less than those contained in the wage determination of the Secretary of Labor (hereinafter "the wage determination") which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the

contractor or its subcontractors and such laborers and mechanics. The wage determination (including any additional classifications and wage rates conformed under paragraph 2 of this Section IV and the DOL poster (WH-1321) or Form FHWA-1495) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers. For the purpose of this Section, contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act (40 U.S.C. 276a) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of Section IV, paragraph 3b, hereof. Also, for the purpose of this Section, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs, which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in paragraphs 4 and 5 of this Section IV.

b. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein, provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed.

c. All rulings and interpretations of the Davis-Bacon Act and related acts contained in 29 CFR 1, 3, and 5 are herein incorporated by reference in this contract.

2. Classification:

a. The SHA contracting officer shall require that any class of laborers or mechanics employed under the contract, which is not listed in the wage determination, shall be classified in conformance with the wage determination.

b. The contracting officer shall approve an additional classification, wage rate and fringe benefits only when the following criteria have been met:

(1) the work to be performed by the additional classification requested is not performed by a classification in the wage determination;

(2) the additional classification is utilized in the area by the construction industry;

(3) the proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination; and

(4) with respect to helpers, when such a classification prevails in the area in which the work is performed.

c. If the contractor or subcontractors, as appropriate, the laborers and mechanics (if known) to be employed in the additional classification or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the DOL, Administrator of the Wage and Hour Division, Employment Standards Administration, Washington, D.C. 20210. The Wage and Hour Administrator, or an authorized representative, will approve, modify, or

disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

d. In the event the contractor or subcontractors, as appropriate, the laborers or mechanics to be employed in the additional classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the question, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. Said Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advised the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

e. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 2c or 2d of this Section IV shall be paid to all workers performing work in the additional classification from the first day on which work is performed in the classification.

3. Payment of Fringe Benefits:

a. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor or subcontractors, as appropriate, shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly case equivalent thereof.

b. If the contractor or subcontractor, as appropriate, does not make payments to a trustee or other third person, he/she may consider as a part of the wages of any laborer or mechanic the amount of any cost reasonably anticipated in providing bona fide fringe benefits under a plan or program, provided that the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

4. Apprentices and Trainees (Programs of the U.S. DOL) and Helpers:

a. Apprentices:

(1) Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the DOL, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State apprenticeship agency recognized by the Bureau, or if a person is employed in his/her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State apprenticeship agency (where appropriate) to be eligible for probationary employment as an apprentice.

(2) The allowable ratio of apprentices to journeyman-level employees on the job site in any craft classification shall not

benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the

be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any employee listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate listed in the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor or subcontractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman-level hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

(3) Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeyman-level hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator for the Wage and Hour Division determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

(4) In the event the Bureau of Apprenticeship and Training, or a State apprenticeship agency recognized by the Bureau, withdraws approval of an apprenticeship program, the contractor or subcontractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the comparable work performed by regular employees until an acceptable program is approved.

b. Trainees:

(1) Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the DOL, Employment and Training Administration.

(2) The ratio of trainees to journeyman-level employees on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

(3) Every trainee must be paid at not less than the rate specified in the approved program for his/her level of progress, expressed as a percentage of the journeyman-level hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe

Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman-level wage rate on the wage determination which provides for less than full fringe benefits for apprentices, in which cases such trainees shall receive the same fringe benefits as apprentices.

(4) In the event the Employment and Training Administration withdraws approval of a training program, the contractor or subcontractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Helpers:

Helpers will be permitted to work on a project if the helper classification is specified and defined on the applicable wage determination or is approved pursuant to the conformance procedure set forth in Section IV. 2. Any worker listed on a payroll at a helper wage rate, who is not a helper under an approved definition, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed.

5. Apprentices and Trainees (Programs of the U.S. DOT):

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

6. Withholding:

The SHA shall upon its own action or upon written request of an authorized representative of the DOL withhold, or cause to be withheld, from the contractor or subcontractor under this contract or any other Federal contract with the same prime contractor or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements which is held by the same prime contractor, as much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainee's and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the SHA contracting officer may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

7. Overtime Requirements:

No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers, mechanics, watchmen, or guards (including apprentices, trainees, and helpers described in paragraphs 4 and 5 above) shall require or permit any laborer, mechanic, watchman, or guard in any workweek in which he/she is employed on such work, to work in excess of 40 hours in such workweek unless such laborer, mechanic, watchman, or guard receives compensation at a rate not less than one-and-one-half times his/her basic rate of pay for all hours worked in excess of 40 hours in such workweek.

8. Violation:

Liability for Unpaid Wages; Liquidated Damages: In the event of any violation of the clause set forth in paragraph 7 above, the contractor and any subcontractor responsible thereof shall be liable to the affected employee for his/her unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory) for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer, mechanic, watchman, or guard employed in violation of the clause set forth in paragraph 7, in the sum of \$10 for each calendar day on which such employee was required or permitted to work in excess of the standard work week of 40 hours without payment of the overtime wages required by the clause set forth in paragraph 7.

9. Withholding for Unpaid Wages and Liquidated Damages:

The SHA shall; upon its own action or upon written request of any authorized representative of the DOL withhold, or cause to be withheld, from any monies payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph 8 above.

V. STATEMENTS AND PAYROLLS

(Applicable to all Federal-aid construction contracts exceeding \$2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural collectors, which are exempt.)

1. Compliance with Copeland Regulations (29 CFR 3):

The contractor shall comply with the Copeland Regulations of the Secretary of Labor which are herein incorporated by reference.

2. Payrolls and Payroll Records:

a. Payrolls and basic records relating thereto shall be maintained by the contractor and each subcontractor during the course of the work and preserved for a period of 3 years from the date of completion of the contract for all laborers, mechanics, apprentices, trainees, watchmen, helpers, and guards working at the site of the work.

b. The payroll records shall contain the name, social security number, and address of each such employee; his or her correct classification; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalent thereof the types described in Section 1(b)(2)(B) of the Davis Bacon Act); daily and weekly number of hours worked; deductions made; and actual wages paid. In addition, for Appalachian contracts, the payroll records shall contain a notation indicating whether the employee does, or does not, normally reside in the labor area as defined in Attachment A, paragraph 1. Whenever the Secretary of Labor, pursuant to Section IV, paragraph 3b, has found that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan

or program described in Section 1(b)(2)(B) of the Davis Bacon Act, the contractor and each subcontractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, that the plan or program has been communicated in writing to the laborers or mechanics affected, and show the cost anticipated or the actual cost incurred in providing benefits. Contractors or subcontractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprentices and trainees, and ratios and wage rates prescribed in the applicable programs.

c. Each contractor and subcontractor shall furnish, each week in which any contract work is performed, to the SHA resident engineer a payroll of wages paid each of its employees (including apprentices trainees, and helpers, described in Section IV, paragraphs 4 and 5, and watchmen and guards engaged on work during the preceding weekly payroll period).

The payroll submitted shall set out accurately and completely all of the information required to be maintained under paragraph 2b of this Section V.

This information may be submitted in any form desired. Optional Form WH-347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal stock number 029-005-0014-1), U.S. Government Printing Office, Washington, D.C. 20402. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors.

d. Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the Contractor or subcontractor or his/her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

- (1) that the payroll for the payroll period contains the information required to be maintained under paragraph 2b of this Section V and that such information is correct and complete;
- (2) that such laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in the Regulations, 29 CFR 3;
- (3) that each laborer or mechanic has been paid not less than the applicable wage rate and fringe benefits or cash equivalent for the classification of worked performed, as specified in the applicable wage determination incorporated into the contract.

e. The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 2d of this Section V.

f. The falsification of any of the above certifications may subject the contractor to civil or criminal prosecution under 18 U/S. C. 1001 and 31 U.S.C. 231.

g. The contractor or subcontractor shall make the records required under paragraph 2b of this Section V available for

inspection, copying, or transcription by authorized representatives of the SHA, the FHWA, or the DOL, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the SHA, the FHWA, the DOL, or all may, after written notice to the contractor, sponsor, applicant, or owner, take such actions as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

VI. RECORD OF MATERIALS, SUPPLIES, AND LABOR

1. On all federal-aid contracts on the national highway system, except those which provide solely for the installation of protective devices at railroad grade crossings, those which are constructed on a force account or direct labor basis, highway beautification contracts, and contracts for which the total final construction cost for roadway and bridge is less than \$1,000,000 (23 CFR 635) the contractor shall:

- a. Become familiar with the list of specific materials and supplies contained in Form FHWA-47, "Statement of Materials and Labor Used by Contractor of Highway Construction Involving Federal Funds," prior to the commencement of work under this contract.
- b. Maintain a record of the total cost of all materials and supplies purchased for and incorporated in the work, and also of the quantities of those specific materials and supplies listed on Form FHWA-47, and in the units shown on Form FHWA-47.
- c. Furnish, upon the completion of the contract, to the SHA resident engineer on /Form FHWA-47 together with the data required in paragraph 1b relative to materials and supplies, a final labor summary of all contract work indicating the total hours worked and the total amount earned.

2. At the prime contractor's option, either a single report covering all contract work or separate reports for the contractor and for each subcontract shall be submitted.

VII. SUBLETTING OR ASSIGNING THE CONTRACT

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the State. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractors' own organization (23 CFR 635).

- a. "Its own organization" shall be construed to include only workers employed and paid directly by the prime contractor and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor, assignee, or agent of the prime contractor.
- b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid on the contract as a

whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph 1 of Section VII is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the SHA contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the SHA contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract.

Written consent will be given only after the SHA has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

VIII. SAFETY: ACCIDENT PREVENTION

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the SHA contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S. C. 333).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 333).

IX. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification,

distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, the following notice shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

NOTICE TO ALL PERSONNEL ENGAGED ON FEDERAL-AID HIGHWAY PROJECTS

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined not more than \$10,000 or imprisoned not more than 5 years or both."

X. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$100,000 or more).

By submission of this bid or the execution of this contract, or subcontract, as appropriate, the bidder, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any facility that is or will be utilized in the performance of this contract, unless such contract is exempt under the Clean Air Act, as amended (42 U.S.C. 1857 et seq., as amended by Pub.L. 91-604), and under the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et seq., as amended by Pub.L. 92-500), Executive Order 11738, and regulations in implementation thereof (40 CFR 15) is not listed, on the date of contract award, on the U.S. Environmental Protection Agency (EPA) List of Violating Facilities pursuant to 40 CFR 15.20.
2. That the firm agrees to comply and remain in compliance with all the requirements of Section 114 of the Clean Air Act and Section 308 of the Federal Water Pollution Control Act and all regulations and guidelines listed thereunder.
3. That the firm shall promptly notify the SHA of the receipt of

any communication from the Director, Office of Federal Activities, EPA indicating that a facility that is or will be utilized for the contract is under consideration to be listed on the EPA List of Violating Facilities.

4. That the firm agrees to include or cause to be included the requirements of paragraph 1 through 4 of this Section X in every nonexempt subcontract, and further agrees to take such action as the government may direct as a means of enforcing such requirements.

XI. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

1. Instructions for Certification - Primary Covered Transactions:

(Applicable to all Federal-aid contracts - 49 CFR 29)

- a. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.
- b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.
- c. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause of default.
- d. The prospective primary participant shall provide immediate written notice to the department or agency to whom this proposal is submitted if any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
- e. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the department or agency to which this proposal is submitted for assistance in obtaining a copy of those regulations.
- f. The prospective primary participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.
- g. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled

"Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the nonprocurement portion of the "Lists of Parties Excluded from Federal Procurement or Nonprocurement Programs" (Nonprocurement List) which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph f of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Primary Covered Transactions

1. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

- a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- b. Have not within a 3-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1b of this certification; and
- d. Have not within a 3-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Covered Transactions:

(Applicable to all subcontracts, purchase orders and other lower tier transactions of \$25,000 or more - 49 CFR 29)

- a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.
- b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.
- c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.
- d. The terms "covered transaction," "debarred," "suspended," "ineligible," "primary covered transaction," "participant," "person," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.
- e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.
- f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
- g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.
- h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealing.
- i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily

excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

Certification Regarding Debarment, Suspension, Ineligibility And Voluntary Exclusion-Lower Tier Covered Transactions:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

XII. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

(Applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 - 49 CFR 20)

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

**MINIMUM WAGES FOR FEDERAL AND FEDERALLY
ASSISTED CONSTRUCTION CONTRACTS**

This project is funded, in part, with Federal-aid funds and, as such, is subject to the provisions of the Davis-Bacon Act of March 3, 1931, as amended (46 Sta. 1494, as amended, 40 U.S.C. 276a) and of other Federal statutes referred to in a 29 CFR Part 1, Appendix A, as well as such additional statutes as may from time to time be enacted containing provisions for the payment of wages determined to be prevailing by the Secretary of Labor in accordance with the Davis-Bacon Act and pursuant to the provisions of 29 CFR Part 1. The prevailing rates and fringe benefits shown in the General Wage Determination Decisions issued by the U.S. Department of Labor shall, in accordance with the provisions of the foregoing statutes, constitute the minimum wages payable on Federal and federally assisted construction projects to laborers and mechanics of the specified classes engaged on contract work of the character and in the localities described therein.

General Wage Determination Decisions, modifications and supersedes decisions thereto are to be used in accordance with the provisions of 29 CFR Parts 1 and 5. Accordingly, the applicable decision, together with any modifications issued, must be made a part of every contract for performance of the described work within the geographic area indicated as required by an applicable DBRA Federal prevailing wage law and 29 CFR Part 5. The wage rates and fringe benefits contained in the General Wage Determination Decision shall be the minimum paid by contractors and subcontractors to laborers and mechanics.

NOTICE

The most current **General Wage Determination Decisions** (wage rates) are available on the IDOT web site. They are located on the Letting and Bidding page at <http://www.dot.state.il.us/desenv/delett.html>.

In addition, ten (10) days prior to the letting, the applicable Federal wage rates will be e-mailed to subscribers. It is recommended that all contractors subscribe to the Federal Wage Rates List or the Contractor's Packet through IDOT's subscription service.

PLEASE NOTE: if you have already subscribed to the Contractor's Packet you will automatically receive the Federal Wage Rates.

The instructions for subscribing are at <http://www.dot.state.il.us/desenv/subsc.html>.

If you have any questions concerning the wage rates, please contact IDOT's Chief Contract Official at 217-782-7806.