BID PROPOSAL INSTRUCTIONS

ABOUT IDOT PROPOSALS: All proposals are potential bidding proposals. Each proposal contains all certifications and affidavits, a proposal signature sheet and a proposal bid bond.

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.

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.

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 124) 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.

WHAT CONSTITUTES WRITTEN AUTHORIZATION TO BID?

When a prospective prime bidder submits a "Request for Authorization to Bid/or Not For Bid Status" (BDE 124) 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 an **Authorization to Bid or Not for Bid Report**, approved by the Central Bureau of Construction and the Chief Procurement Officer that indicates which items have been approved For Bidding. If **Authorization to Bid** cannot be approved, the **Authorization to Bid or Not for Bid Report** will indicate the reason for denial.

ABOUT AUTHORIZATION TO BID

Firms that have not received an Authorization to Bid or Not For Bid Report within a reasonable time of complete and correct original document submittal should contact the Department as to the status. 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 bidder'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 or revision will be included with the Electronic Plans and Proposals. 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 service emails are an added courtesy the Department provides. It is suggested that bidders check IDOT's website at http://www.idot.illinois.gov/doing-business/procurements/construction-services/construction-bulletins/transportation-bulletin/index#TransportationBulletin 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 DOT.D&Econtracts@illlinois.gov

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

STANDARD GUIDELINES FOR SUBMITTING BIDS

- All pages should be single sided.
- Use the Cover Page that is provided in the Bid Proposal (posted on the IDOT Web Site) as the first page of your submitted bid. It has the item number in large bold type in the upper left-hand corner and lines provided for your company name and address in the upper right-hand corner.
- Do not use report covers, presentation folders or special bindings and do not staple multiple times on left side like a book. Use only 1 staple in the upper left hand corner. Make sure all elements of your bid are stapled together including the bid bond or guaranty check (if required).
- Do not include any certificates of eligibility, your authorization to bid, Addendum Letters or affidavit of availability.
- Do not include the Subcontractor Documentation with your bid (pages i iii and pages a g). This documentation is required only if you are awarded the project.
- Use the envelope cover sheet (provided with the proposal) as the cover for the proposal envelope.
- Do not rely on overnight services to deliver your proposal prior to 10 AM on letting day. It will not be read if it is delivered after 10 AM.
- Do not submit your Substance Abuse Prevention Program (SAPP) with your bid. If you are awarded the contract this form is to be submitted to the district engineer at the pre-construction conference.

BID SUBMITTAL CHECKLIST

Cover page (the sheet that has the item number on it) – This should be the first page of your bid proposal, followed by your bid (the Schedule of Prices/Pay Items). If you are using special software or CBID to generate your schedule of prices, do not include the blank pages of the schedule of prices that came with the proposal package.
☐ Page 4 (Item 9) — Check "YES" if you will use a subcontractor(s) with an annual value over \$50,000. Include the subcontractor(s) name, address, general type of work to be performed and the dollar amount. If you will use subcontractor(s) but are uncertain who or the dollar amount; check "YES" but leave the lines blank.
☐ After page 4 – Insert the following documents: Cost Adjustments for Steel, Bituminous and Fuel (if applicable) and the Contractor Letter of Assent (if applicable). The general rule should be, if you don't know where it goes, put it after page 4.
☐ Page 10 (Paragraph J) – Check "YES" or "NO" whether your company has any business in Iran.
☐ Page 10 (Paragraph K) – (Not applicable to federally funded projects) List the name of the apprenticeship and training program sponsor holding the certificate of registration from the US Department of Labor. If no applicable program exists, please indicate the work/job category. Do not include certificates with your bid. Keep the certificates in your office in case they are requested by IDOT.
☐ Page 11 (Paragraph L) – A copy of your State Board of Elections certificate of registration is no longer required with your bid.
☐ Page 11 (Paragraph M) – Indicate if your company has hired a lobbyist in connection with the job for which you are submitting the bid proposal.
☐ Page 12 (Paragraph C) – This is a work sheet to determine if a completed Form A is required. It is not part of the form and you do not need to make copies for each completed Form A.
□ Pages 14-17 (Form A) – One Form A (4 pages) is required for each applicable person in your company. Copies of the forms can be used and only need to be changed when the information changes. The certification signature and date must be original for each letting. Do not staple the forms together. If you answered "NO" to all of the questions in Paragraph C (page 12), complete the first section (page 14) with your company information and then sign and date the Not Applicable statement on page 17.
Page 18 (Form B) - If you check "YES" to having other current or pending contracts it is acceptable to use the phrase, "See Affidavit of Availability on file". Ownership Certification (at the bottom of the page) - Check N/A if the Form A(s) you submitted accounts for 100 percent of the company ownership. Check YES if any percentage of ownership falls outside of the parameters that require reporting on the Form A. Checking NO indicates that the Form A(s) you submitted is not correct and you will be required to submit a revised Form A.
☐ Page 20 (Workforce Projection) – Be sure to include the Duration of the Project. It is acceptable to use the phrase "Per Contract Specifications".

☐ Proposal Bid Bond – (Insert after the proposal signature page) Submit you using the current Proposal Bid Bond form provided in the proposal package. the Proposal Bid Bond. If you are using an electronic bond, include your bid the Proof of Insurance printed from the Surety's Web Site.	The Power of Attorney page should be stapled to
☐ Disadvantaged Business Utilization Plan and/or Good Faith Effort – T Utilization Plan (SBE 2026), followed by the DBE Participation Statement (SB documentation of a Good Faith Effort, it is to follow the SBE Forms.	
The Bid Letting is now available in streaming Audio/Video from the IDOT the main page of the current letting on the day of the Letting. The stream will bids does not begin until approximately 10:30 AM.	T Web Site. A link to the stream will be placed on not begin until 10 AM. The actual reading of the
Following the Letting, the As-Read Tabulation of Bids will be posted by the en Web page for the current letting.	nd of the day. You will find the link on the main
QUESTIONS: pre-letting up to execution of the contract	
Contractor pre-qualification	217-782-3413
Small Business, Disadvantaged Business Enterprise (DBE)	
Contracts, Bids, Letting process or Internet downloads	
Estimates Unit	
Aeronautics	
IDNR (Land Reclamation, Water Resources, Natural Resources)	217-782-6302
QUESTIONS: following contract execution	
Subcontractor documentation, payments	217-782-3413
Railroad Insurance	217-785-0275

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Proposal Submitted By	
Name	
Address	
City	

Letting July 31, 2015

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.

BIDDERS NEED NOT RETURN THE ENTIRE PROPOSAL

Notice to Bidders, Specifications, Proposal, Contract and Contract Bond



Springfield, Illinois 62764

Contract No. 85616
WINNEBAGO County
Section 04-00345-00-CH
Route FAU 5149 (Bell School Road)
Project M-5099(112)
District 2 Construction Funds

	PLEASE MARK THE APPROPRIATE BOX BELOW:
	☐ A <u>Bid</u> <u>Bond</u> is included.
	☐ A <u>Cashier's Check</u> or a <u>Certified Check</u> is included
	☐ An Annual Bid Bond is included or is on file with IDOT.
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Prepared by

Checked by

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(Printed by authority of the State of Illinois)

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PROPOSAL

TO THE DEPARTMENT OF TRANSPORTATION

Route FAU 5149 (Bell School Road)
District 2 Construction Funds

1.	Proposal of
	Taxpayer Identification Number (Mandatory)
	For the improvement identified and advertised for bids in the Invitation for Bids as:
	Contract No. 85616 WINNEBAGO County Section 04-00345-00-CH Project M-5099(112)

Pavement widening, resurfacing, curb and gutter, storm sewer, sidewalks, shared-use path, retaining walls, modify traffic signals, install traffic signals and roadway lighting from south of Lucky Lane to north of Argus Drive and along Business US 30 from Sundae Drive to Bell School Road.

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 will govern performance and payments.

- 3. **ASSURANCE OF EXAMINATION AND INSPECTION/WAIVER.** The undersigned bidder further declares that he/she has carefully examined the proposal, plans, specifications, addenda 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 bid proposal he/she waives all right to plead any misunderstanding regarding the same.
- 4. **EXECUTION OF CONTRACT AND CONTRACT BOND.** The undersigned bidder 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, or as specified in the special provisions, 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>A</u>	mount o	of Bid	Proposal <u>Guaranty</u>	<u>Am</u>	ount c		roposal luaranty
Up to		\$5,000	\$150	\$2,000,000	to	\$3,000,000\$	\$100,000
\$5,000	to	\$10,000	\$300	\$3,000,000	to	\$5,000,000\$	\$150,000
\$10,000	to	\$50,000	\$1,000	\$5,000,000	to	\$7,500,000\$	250,000
\$50,000	to	\$100,000	\$3,000	\$7,500,000	to	\$10,000,000\$	3400,000
\$100,000	to	\$150,000	\$5,000	\$10,000,000	to	\$15,000,000\$	\$500,000
\$150,000	to	\$250,000	\$7,500	\$15,000,000	to	\$20,000,000\$	600,000
\$250,000	to	\$500,000	\$12,500	\$20,000,000	to	\$25,000,000\$	\$700,000
\$500,000	to	\$1,000,000	\$25,000	\$25,000,000	to	\$30,000,000	000,008
\$1,000,000	to	\$1,500,000	\$50,000	\$30,000,000	to	\$35,000,000\$	3900,000
\$1,500,000	to	\$2,000,000	\$75,000	over		\$35,000,000 \$1	,000,000

Bank cashier's checks or properly certified checks accompanying bid proposals will be made payable to the Treasurer, State of Illinois.

If a combination bid is submitted, the proposal guaranties which accompany the individual bid 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 will fail to execute a contract bond as required herein, it is hereby	y agreed that the amount of	the proposal guaranty will become the
property of the State of Illinois, and shall be considered as payment of damages due	e to delay and other causes	s suffered by the State because of the
failure to execute said contract and contract bond; otherwise, the bid bond will bec	ome void or the proposal	guaranty check will be returned to the
undersigned.		

undersigned.		sine told of the proposal guaranty officer will be foldined to the
Attach Cashier's C	heck or Certif	ied Check Here
In the event that one proposal guaranty check is intended to cover two of the proposal guaranties which would be required for each individual proposal, state below where it may be found.		
The proposal guaranty check will be found in the bid proposal for:	Item	
	Section No.	
	County	

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

6.	following combination proportion to the	BIDS. The undersigned bidder further agrees that if awarded the ation, he/she will perform the work in accordance with the requirement bid specified in the schedule below, and that the combination bid bid submitted for the same. If an error is found to exist in the gross in a combination, the combination bid shall be corrected as provide	ents of each individual contract comprisir shall be prorated against each section s sum bid for one or more of the individu				
		a combination bid is submitted, the schedule below must be coising the combination.	ompleted in each proposal				
		nate bids are submitted for one or more of the sections compri nation bid must be submitted for each alternate.	sing the combination, a				
		Schedule of Combination Bids					
Со	mbination No.	Sections Included in Combination	Combination Bid Dollars Cents				
7.	schedule of price all extensions ar schedule are app is an error in the will be made only The scheduled q	PRICES. The undersigned bidder submits herewith, in accordant is for the items of work for which bids are sought. The unit prices and summations have been made. The bidder understands that proximate and are provided for the purpose of obtaining a gross surextension of the unit prices, the unit prices will govern. Payment to actual quantities of work performed and accepted or materials unantities of work to be done and materials to be furnished may be the in the contract.	bid are in U.S. dollars and cents, and the quantities appearing in the bid in for the comparison of bids. If there to the contractor awarded the contract is furnished according to the contract.				
8.	500/20-43) provid	DO BUSINESS IN ILLINOIS. Section 20-43 of the Illinois Produces that a person (other than an individual acting as a sole proprietor or conduct affairs in the State of Illinois prior to submitting the bid.					
9.	Department proc and make payme Purchasing Office Neither the CPO	F CONTRACT: The Department of Transportation will, in accurements, execute the contract and shall be the sole entity having ents under the contract. Execution of the contract by the Chief Proper (SPO) is for approval of the procurement process and execution on the SPO shall be responsible for administration of the coayment there under except as otherwise permitted in the Code.	the authority to accept performance ocurement Officer (CPO) or the State of the contract by the Department.				
10.	The services of	a subcontractor will be used.					
	Check box Check box	Yes No					
		ubcontractors with subcontracts with an annual value of more than \$ address, general type of work to be performed, and the dollar allocat 0/20-120)					

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C-92-118-06

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TION NUMBER H	UNIT OF MEASURE	EACH	EACH	LIND	SQ YD	EACH	-	EACH		NOS 7	EACH	EACH	EACH	F00T	EACH	EACH
NAME CODE DIST SEC SEC SO1 O2 O4-00345-00-C	PAY ITEM DESCRIPTION	S-RHUS AROMA GRO 2'C	S-SPIREA X BUM GF 18C	P PL PRAIRIE TY GAL P	MULCH PLACEMENT 4	STREET NAME SIGN MAM	REL EX LIGHT POLE	SPECIAL STRUCTURE SP1	SIGN TO BE RELOCATED	CONC TRUCK WASHOUT	LT U A CM 40 16 D LUM	LT U A CM 40 SING LUM	LUMINAIRE SPL	RETAINING WALL REMOV	CONC WINGWALL REMOV	PRO SS CONN TO EX
COUNTY NAME WINNEBAGO	ITEM NUMBER		3918	3020	3120	2182	2185	3653	99	821	002	003	797	Z127900	0300015	0322916

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4080052	INCIDENTL HMA SURF SP	NOL	300.000		
4400110	TEMP PAVT REMOVAL		638.000		1 1 1
4400196	HMA SURF REM SPL	SQ YD	275.000 x		1 1 1
402020	CONC MEDIAN SURF REM	SQ FT	2,717.000 x		; ;
5024210	DOUBLE INLET SPL		2.000 x		1 1 F
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3024242	INLETS SPL N1	EACH	1.000 X		i !
3024244	INLETS SPL N2	-	1.000 X		I I I
3024246	INLETS SPL N3	EACH	7		1 1 1
30242	INLETS SPL N5	EACH	11.000 X		! !
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1	ITEM	6026050	6026051	6061930	7010216	8100105	8140115	11125	3410102	3410118	3870300	3950105	0013798	033072	043750	50600	

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PRICE TOTAL CENTS 270.000 30.000 5,488.000 250.000 6,024.000 6,173.000 1,135.000 1,196.000 10,126.000 741.000 3,215.000 54,326.000 593.000 1,488.000 11.000 QUANTITY UNIT OF MEASURE SQ YD POUND EACH SQ YD SQ YD SQ YD FOOT SQ YD FOOT SQ YD SQ YD POUND SQ YD NOL NOL ITEM DESCRIPTION TEMP EROS CONTR SEED INLET & PIPE PROTECT SURF REM BUTT JT N50 N70 PERIMETER EROS BAR TEMP DITCH CHECKS 10 ∞ ರ AGG BASE CSE A 12 AGG BASE CSE A BIT MATLS PR CT BC IL-19.0 AGG BASE CSE A AGG BASE CSE A AGG BASE CSE A BC IL-19.0 AGG BASE CSE РΑΥ SODDING HMA HMA HMA 28000400 25200100 28000500 35100120 35100700 35101100 28000250 28000305 35100300 35100900 35101350 ITEM NUMBER 40600275 40603080 40600982 40603085

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ITEM	550A2360	5100500	5100700	00600	640020	540030	0107600	0221100	0252800	0257900	0260100	0263000)265700)266600	0500040

ECMS002 DTGECM03 ECMR003 PAGE RUN DATE - 06/29/15 RUN TIME - 183040 ILLINOIS DEPARTMENT OF TRANSPORTATION SCHEDULE OF PRICES CONTRACT NUMBER - 85616

UNIT PRICE TOTAL PRICE DOLLARS CENTS DOLLARS CENTS									1						
QUANTITY	4.000 X	209.000 X	47.000 X	3,610.000 X	3,581.000 X	166.000 X	3,043.000 X	4,393.000 X	.	. 170.000 X	.	-	-		439.000 X
UNIT OF MEASURE	EACH	FOOT	F00T	F00T	F00T	F00T	S		SQ FT		WNS 7	F00T	SQ FT	F001	F00T
PAY ITEM DESCRIPTION	REMOV INLETS	COMB CC&G TB6.06	COMB CC&G TB6.12	COMB CC&G TB6.18	COMB CC&G TB6.24	COMB CC&G TB9.24	CONC MEDIAN SURF 4	CONC MED TSB6.12	CORRUGATED MED	CH LK FENCE 4	MOBILIZATION	SHORT TERM PAVT MKING	TEMP PVT MK LTR & SYM	TEMP PVT MK LINE 4	TEMP PVT MK LINE
ITEM		0603500	0603800	4400	0605000	0607400	0618300	0619600	0624600	3400105	7100100	0300100	3300210	3300220	300280

ILLINOIS DEPARTMENT OF TRANSPORTATION ECMSOO2 D SCHEDULE OF PRICES CONTRACT NUMBER - 85616 RUN TIME

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QUANTITY DOL DOL	16,188.000 X	13.000 X	12.000 X		19.00	60.00	, 83	1,487.000 X	342.00		, 73		3,017.000 X	1,406.000 X	259.000 X
UNIT OF MEASURE				1	ıŌ	ı Ö	ΙĒ					F0			F00T
PAY ITEM DESCRIPTION	WORK ZONE PAVT MK	REMOV SIN PAN ASSY TA	RELOC SIN PAN ASSY TA	THPL PVT MK LTR & SYM	THPL PVT MK LINE 4	THPL PVT MK LINE 6	THPL PVT MK LINE 8	THPL PVT MK LINE 12	THPL PVT MK LINE 24	EPOXY PVT MK LTR-SYM	EPOXY PVT MK LINE 4	EPOXY PVT MK LINE 6	EPOXY PVT MK LINE 8	EPOXY PVT MK LINE 12	EPOXY PVT MK LINE 2
ITEM	70301000	2400100	2400500	00100	8000200	8000400	8000500	8000600	00650	8005100	8005110	8005130	8005140	8005150	3005180

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QUANTITY	330.000	16.0	1.000	3.000	6,500.000	78.000	79.000	3,796.000	70.00	250.000	396.000	507.000	14.000 >	3.000	16.000 16.000	
UNIT OF MEASURE	ЕАСН	SQ FT	EACH		F00T		F00T		F00T	F001	F00T	F001	EACH	EACH	EACH	
PAY ITEM DESCRIPTION	RAISED REFL PAVT MK	PAVT MARKING REMOVA	ELECT SERV INSTALL	SERV INSTALL TY A	UNDRGRD C CNC 1	UNDRGRD C CNC 1 1/4	UNDRGRD C CNC 1 1/2	UNDRGRD C CNC 2	UNDRGRD C CNC 3	UNDRGRD C CNC 3 1/2	UNDRGRD C CNC 4	UNDRGRD C CNC	HANDHOLE	L HANDHOLE	HANDHOLE C	
ITEM	78100100	8300100	0400100	0500100	1028720	1028730	1028740	028750	1028770	1028780	1028790	028800	1400100	1400300	1400730	

ILLINOIS DEPARTMENT OF TRANSPORTATION ECMSOO2 SCHEDULE OF PRICES CONTRACT NUMBER - 85616 RUN TIM

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UNIT PRICE TOTAL PRICE DOLLARS CENTS DOLLARS CTS	<u> </u>															
QUANTITY	29,500.000	3,104.000	1.000	294.000	196.000	000.6	2.000	10.000	3.000 (1,369.000)	2,682.000 >	5,721.000 >	5,846.000 >	5,026.000	8,520.000	
UNIT OF MEASURE	F00T	F00T				EACH	EACH	I Ш I I I I I		F00T	FOOT	FOOT	F00T	F00T	F00T	
PAY ITEM DESCRIPTION	EC C XLP USE 1C 10	EC C XLP 3-1C#6 1C#6G	LT CONT BASEM 480V100	LIGHT POLE FDN 30D	BKWY DEV COU SS SCRN	PT NEW TRAF SIG POST	PT NEW COM MA&P <40FT	PT NEW COM MA&P>=40FT	FAC T4 CAB	FO CAB C 62.5/125 6F	ELCBL C TRACER 14 1C	ELCBL C SIGNAL 14 2C	ELCBL C SIGNAL 14 3C	ELCBL C SIGNAL 14	CBL C SIGNAL 14 7	
ITEM	81702110	1702417	2500360	0300	3800650	5100500	5100800	5100901	5700200	7100110	7300925	7301215	7301225	301245	301255	

ILLINOIS DEPARTMENT OF TRANSPORTATION ECM: SCHEDULE OF PRICES CONTRACT NUMBER - 85616 RUN

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UNIT PRICE TOTAL PRICE DOLLARS CENTS DOLLARS																
QUANTITY	447.000	000.6	1.000	1.000)	1.000	3.000)	1.000	2.000 >	1.000 /	1.000	27.000	10.500	10.000	104.000 x	46.000 x	
UNIT OF MEASURE	FOOT	EACH	EACH	EACH	EACH	EACH	_	EACH	EACH	EACH	F00T	F001	F00T	F00T	F00T	
PAY ITEM DESCRIPTION	ELCBL C SERV 6	TS POST GALVS 16	S MAA & P DMA 44 & 42	STL COMB MAA&P 34	STL COMB MAA&P 36	STL COMB MAA&P 40	STL COMB MAA&P 50	STL COMB MAA&P 54	STL COMB MAA&P 58	STL COMB MAA&P 66	A YT NO	CONC FDN TY D	CONC FDN TY E 30D	CONC FDN TY E 36D	CONC FDN TY E 4	
ITEM	7301805	7502500	7702690	7702900	7702910	7702930	7702980	7702990	7703020	7703070		7800200	7800400	800415	800420	***************************************

ILLINOIS DEPARTMENT OF TRANSPORTATION SCHEDULE OF PRICES CONTRACT NUMBER - 85616

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UNIT PRICE TOTAL PRICE DOLLARS CTS										
QUANTITY	22.000 X	23.000 X	13.000 X	28.000 X	35.000 X	28.000 X	1.000 X	3.000 X	12.000 X	2.000 X
UNIT OF MEASURE	EACH	EACH EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
PAY ITEM DESCRIPTION	O SH LED 1F 3S MAM	SH LED 1F 5S BM	SH LED 1F 5S	PED SH P LED 1	TS BACKPLATE	PED PUSH-BUTTON	TEMP TR SIG INSTA	REMOV EX TS	REMOV EX HAND	REMOV EX CON
ITEM	88030020	88030100	88030110	88102825	88200100	88800100	89000100	89502375	89502380	89502385

NOTE:

EACH PAY ITEM SHOULD HAVE A UNIT PRICE AND A TOTAL PRICE.

TOTAL

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.

A BID MAY BE DECLARED UNACCEPTABLE IF NEITHER A UNIT PRICE NOR A TOTAL PRICE IS SHOWN. 4.

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

I. GENERAL

- **A.** Article 50 of the Code establishes the duty of all State CPOs, SPOs, 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. Except as otherwise required in subsection III, paragraphs J-M, by execution of the Proposal Signature Sheet, the bidder indicates that each of the mandated assurances have 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 the CPO to void the contract, and may result in the suspension or debarment of the bidder or subcontractor. If a false certification is made by a subcontractor the contractor's submitted bid and the executed contract may not be declared void unless the contractor refuses to terminate the subcontract upon the State's request after a finding that the subcontractor's certification was false.
- ☐ I acknowledge, understand and accept these terms and conditions.

II. ASSURANCES

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.

A. Conflicts of Interest

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 State 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 State 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 calendar days after the officer, member, or employee takes office or is employed. The current salary of the Governor is \$177,412.00. Sixty percent of the salary is \$106,447.20.

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. Information concerning the exemption process is available from the Department upon request.

B. Negotiations

Section 50-15. Negotiations.

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.

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.

C. Inducements

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 provide a submission to a vendor portal or 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, not making a submission to a vendor portal, or who withholds a bid or submission to a vendor portal in consideration of the promise for the payment of money or other valuable thing is guilty of a Class 4 felony.

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.

D. Revolving Door Prohibition

Section 50-30. Revolving door prohibition.

CPOs, SPOs, procurement compliance monitors, 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.

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.

E. Reporting Anticompetitive Practices

Section 50-40. Reporting anticompetitive practices.

When, for any reason, any vendor, bidder, contractor, CPO, SPO, 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 CPO.

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 or submission to a vendor portal is submitted.

F. Confidentiality

Section 50-45. Confidentiality.

Any CPO, SPO, 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.

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.

G. Insider Information

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.

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.

☐ I acknowledge, understand and accept these terms and conditions for the above assurances.

III. CERTIFICATIONS

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. Section 50-2 of the Code provides that every person that has entered into a multi-year contract and every subcontractor with a multi-year subcontract shall certify, by July 1 of each fiscal year covered by the contract after the initial fiscal year, to the responsible CPO whether it continues to satisfy the requirements of Article 50 pertaining to the eligibility for a contract award. If a contractor or subcontractor is not able to truthfully certify that it continues to meet all requirements, it shall provide with its certification a detailed explanation of the circumstances leading to the change in certification status. A contractor or subcontractor that makes a false statement material to any given certification required under Article 50 is, in addition to any other penalties or consequences prescribed by law, subject to liability under the Whistleblower Reward and Protection Act for submission of a false claim.

A. Bribery

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, or subcontracting under such a contract, 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, or which is signatory to the contract which the subcontract relates, 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 2012.
- (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, and every subcontract subject to Section 20-120 of the Code shall contain a certification by the contractor or the subcontractor, respectively, that the contractor or subcontractor is not barred from being awarded a contract or subcontract under this Section and acknowledges that the CPO may declare the related contract void if any certifications required by this Section are false. A contractor who makes a false statement, material to the certification, commits a Class 3 felony.

The contractor or subcontractor certifies that it is not barred from being awarded a contract under Section 50-5.

B. Felons

Section 50-10. Felons.

- (a) Unless otherwise provided, no person or business convicted of a felony shall do business with the State of Illinois or any State agency, or enter into a subcontract, 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.
- (b) Certification. Every bid submitted to and contract executed by the State and every subcontract subject to Section 20-120 of the Code and every vendor's submission to a vendor portal shall contain a certification by the bidder or contractor or subcontractor, respectively, that the bidder, contractor, or subcontractor is not barred from being awarded a contract or subcontract under this Section and acknowledges that the CPO may declare the related contract void if any of the certifications required by this Section are false.

C. Debt Delinquency

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

The contractor or bidder or subcontractor, respectively, certifies that it, or any affiliate, is not barred from being awarded a contract or subcontract under the Code. Section 50-11 prohibits a person from entering into a contract with a State agency, or entering into a subcontract, 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, or entering into a subcontract, 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 bidder or contractor or subcontractor, respectively, further acknowledges that the CPO may declare the related contract void if this certification is false or if the bidder, contractor, or subcontractor, or any affiliate, is determined to be delinquent in the payment of any debt to the State during the term of the contract.

D. Prohibited Bidders, Contractors and Subcontractors

Section 50-10.5 and 50-60(c). Prohibited bidders, contractors and subcontractors.

The bidder or contractor or subcontractor, respectively, certifies in accordance with Section 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 or if in violation of Subsection (c) for a period of five years from the date of conviction. Every bid submitted to and contract executed by the State and every subcontract subject to Section 20-120 of the Code shall contain a certification by the bidder, contractor, or subcontractor, respectively, that the bidder, contractor, or subcontract under this Section and acknowledges that the CPO shall declare the related contract void if any of the certifications completed pursuant to this Section are false.

E. Section 42 of the Environmental Protection Act

Section 50-14 Environmental Protection Act violations.

The bidder or contractor or subcontractor, respectively, certifies in accordance with Section 50-14 that the bidder, contractor, or subcontractor, is not barred from being awarded a contract or entering into a subcontract under this Section which prohibits the bidding on or entering into contracts with the State of Illinois or a State agency, or entering into any subcontract, that is subject to the Code 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 bidder or contractor or subcontractor, respectively, acknowledges that the CPO may declare the contract void if this certification is false.

F. Educational Loan

Section 3 of the Educational Loan Default Act, 5 ILCS 385/3.

Pursuant to the Educational Loan Default Act no State agency shall contract with an individual for goods or services if that individual is in default on an educational loan.

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.

G. Bid-Rigging/Bid Rotating

Section 33E-11 of the Criminal Code of 2012, 720 ILCS 5/3BE-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.
- (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.

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.

H. International Anti-Boycott

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

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

I. Drug Free Workplace

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.

The bidder certifies that if awarded a contract in excess of \$5,000 it will provide a drug free workplace in compliance with the provisions of the Act.

J. Disclosure of Business Operations in Iran

Section 50-36 of the Code 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, offeror, 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 Code.

Failure to make the disclosure required by the Code may cause the bid, offer or proposal to be considered not responsive. The disclosure will be considered when evaluating the bid 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 on the attached document.			

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

In accordance with the provisions of Section 30-22 (6) of the 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.

Addtionally, Section 30-22 of the Code requires that the bidder certify that an Illinois office be maintained as the primary place of employment for persons employed for this contract.

NA-FEDERAL_	

The requirements of these certifications and disclosures are a material part of the contract, and the contractor shall require these certification provisions 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. Political Contributions and Registration with the State Board of Elections

Sections 20-160 and 50-37 of the Code regulate political contributions from business entities and any affiliated entities or affiliated persons bidding on or contracting with the state. Generally under Section 50-37, any business entity, and any affiliated entity or affiliated person of the business entity, whose current year contracts with all state agencies exceed an awarded value of \$50,000, are prohibited from making any contributions to any political committees established to promote the candidacy of the officeholder responsible for the awarding of the contracts or any other declared candidate for that office for the duration of the term of office of the incumbent officeholder or a period 2 years after the termination of the contract, whichever is longer. Any business entity and affiliated entities or affiliated persons whose state contracts in the current year do not exceed an awarded value of \$50,000, but whose aggregate pending bids and proposals on state contracts exceed \$50,000, either alone or in combination with contracts not exceeding \$50,000, are prohibited from making any political contributions to any political committee established to promote the candidacy of the officeholder responsible for awarding the pending contract during the period beginning on the date the invitation for bids or request for proposals or any other procurement opportunity is issued and ending on the day after the date of award or selection if the entity was not awarded or selected. Section 20-160 requires certification of registration of affected business entities in accordance with procedures found in Section 9-35 of The Election Code.

By submission of a bid, the contractor business entity acknowledges and agrees that it has read and understands Sections 20-160 and 50-37 of the Code, and that it makes the following certification:

The undersigned bidder certifies that it has registered as a business with the State Board of Elections and acknowledges a continuing duty to update the registration in accordance with the above referenced statutes. If the business entity is required to register, the CPO shall verify that it is in compliance on the date the bid or proposal is due. The CPO shall not accept a bid or proposal if the business entity is not in compliance with the registration requirements.

These requirements and compliance with the above referenced statutory sections are a material part of the contract, and any breach thereof shall be cause to void the contract under Section 50-60 of the Code. This provision does not apply to Federal-aid contracts.

M. Lobbyist Disclosure

Section 50-38 of the Code requires that any bidder or offeror on a State contract that hires a person required to register under the Lobbyist Registration Act to assist in obtaining a contract shall:

- (i) Disclose all costs, fees, compensation, reimbursements, and other remunerations paid or to be paid to the lobbyist related to the contract.
- (ii) Not bill or otherwise cause the State of Illinois to pay for any of the lobbyist's costs, fees, compensation, reimbursements, or other remuneration, and
- (iii) Sign a verification certifying that none of the lobbyist's costs, fees, compensation, reimbursements, or other remuneration were billed to the State.

This information, along with all supporting documents, shall be filed with the agency awarding the contract and with the Secretary of State. The CPO shall post this information, together with the contract award notice, in the online Procurement Bulletin.

Pursuant to Subsection (c) of this Section, no person or entity shall retain a person or entity to attempt to influence the outcome of a procurement decision made under the Code for compensation contingent in whole or in part upon the decision or procurement. Any person who violates this subsection is guilty of a business offense and shall be fined not more than \$10,000.

Bidder acknowledges that it is required to disclose the hiring of any person required to register pursuant to the Illinois Lobbyist Registration Act (25 ILCS 170) in connection with this contract.

		Bidder has not hired any person required to register pursuant to the Illinois Lobbyist Registration Act in connection with this contract.
	Or	
		Bidder has hired the following persons required to register pursuant to the Illinois Lobbyist Registration Act in connection with the contract:
		address of person:ees, compensation, reimbursements and other remuneration paid to said person:
□lac	knc	welledge understand and accept these terms and conditions for the above certifications

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 bidder further certifies that the Department has received the disclosure forms for each bid.

The CPO may void the bid, or contract, respectively, if it is later determined that the bidder or subcontractor rendered a false or erroneous disclosure. A contractor or subcontractor may be suspended or debarred for violations of the Code. Furthermore, the CPO may void the contract 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 Code provides that all bids of more than \$50,000 and all submissions to a vendor portal 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, filed with the Procurement Policy Board, and shall be incorporated as a material term of the contract. Furthermore, pursuant to Section 5-5, the Procurement Policy Board may review a proposal, bid, or contract and issue a recommendation to void a contract or reject a proposal or bid based on any violation of the Code or the existence of a conflict of interest as provided in subsections (b) and (d) of Section 50-35.

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 100 shareholders, it may submit the information that Federal 10K companies are required to report, and list the names of any individual 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 individual 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 individual making the disclosure having any of the relationships identified in Section 50-35 and on the disclosure form.

The current annual salary of the Governor is \$177,412.00.

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. <u>Disclosure Forms</u>. Disclosure Form A is attached for use concerning the individuals meeting the above ownership or distributive share requirements. A separate Disclosure Form A must be submitted with the bid for each individual meeting the above requirements. In addition, a second form (Disclosure Form B) provides for the disclosure of current or pending procurement relationships with other (non-IDOT) state agencies and a total ownership certification. **The forms must be included with each bid.**

C. <u>Disclosure Form Instructions</u>

Form A Instructions for Financial Information & Potential Conflicts of Interest

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 100 shareholders, it may submit the information that Federal 10K companies are required to report, and list the names of any individual 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 Form A must be signed and dated by an individual 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 60% of the annual salary of the Governor? YES NO
3.	Does anyone in your organization receive more than 60% of the annual salary of the Governor of the bidding entity's or parent entity's 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 60% of the annual salary of the Governor? YES NO
	(Note: Only one set of forms needs to be completed <u>per individual per bid</u> 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 an individual that is authorized to execute contracts for your organization. The individual signing can be, but does not have to be, the individual 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 <u>NOT APPLICABLE STATEMENT</u> of Form A must be signed and dated by an individual that is authorized to execute contracts for your company.

Form B: Instructions for Identifying Other Contracts & Procurement Related Information

Disclosure Form B must be completed for each bid submitted by the bidding entity. Note: Checking the <u>NOT APPLICABLE STATEMENT</u> on Form A <u>does not</u> 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.

ILLINOIS DEPARTMENT OF TRANSPORTATION

Form A Financial Information & Potential Conflicts of Interest Disclosure

Contractor Name		
Legal Address		
O'the Otate 7's		
City, State, Zip		
Telephone Number	Email Address	Fax Number (if available)

Disclosure of the information contained in this Form is required by Section 50-35 of the 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 \$50,000, 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.

The current annual salary of the Governor is \$177,412.00.

DISCLOSURE OF FINANCIAL INFORMATION

 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 60% of the annual salary of the Governor. (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:				
AD	DRESS			
Тур	e of ownershi	p/distributable income share	:	
stoo		sole proprietorship	Partnership	other: (explain on separate sheet):
% 0	r \$ value of ow	nership/distributable income sh	nare:	

- **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 State
 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 60% of the annual salary of the Governor provide the name the State agency for which you are employed and your annual salary.

 If you are currently appointed to or employed by any agency of the State of Illinois, and your ann salary exceeds 60% of the annual salary of the Governor, are you entitled to receive (i) more than 7 1/2% of the total distributable income of your firm, partnership, association of corporation, or (ii) an amount in excess of 100% of the annual salary of the Governor? YesN 			
4.	If you are currently appointed to or employed by any agency of the Salary exceeds 60% of the annual salary of the Governor, are you a or minor children entitled to receive (i) more than 15% in aggregate of your firm, partnership, association or corporation, or (ii) an amour salary of the Governor?	nd your spouse of the total distributable income	
	employment of spouse, father, mother, son, or daughter, including con previous 2 years.		
If your	answer is yes, please answer each of the following questions.	YesNo	
1.	Is your spouse or any minor children currently an officer or employee Board or the Illinois State Toll Highway Authority?	of the Capitol Development YesNo	
2.	Is your spouse or any minor children currently appointed to or employ of Illinois? If your spouse or minor children is/are currently appointed agency of the State of Illinois, and his/her annual salary exceeds 60 annual salary of the Governor, provide the name of the spouse and/of the State agency for which he/she is employed and his/her annual	d to or employed by any 0% of the or minor children, the name	
3.	If your spouse or any minor children is/are currently appointed to or estate of Illinois, and his/her annual salary exceeds 60% of the annual are you entitled to receive (i) more than 71/2% of the total distributable firm, partnership, association or corporation, or (ii) an amount in excannual salary of the Governor?	I salary of the Governor, e income of your	
4.	If your spouse or any minor children are currently appointed to or er State of Illinois, and his/her annual salary exceeds 60% of the annual and your spouse or any minor children entitled to receive (i) more that aggregate of the total distributable income from your firm, partnership (ii) an amount in excess of two times the salary of the Governor?	salary of the Governor, are you an 15% in the	
		Yes No	
unit of	e status; the holding of elective office of the State of Illinois, the govern local government authorized by the Constitution of the State of Illinoi currently or in the previous 3 years.		
	nship to anyone holding elective office currently or in the previous 2 ye daughter.	ears; spouse, father, mother, YesNo	
Americ of the S	tive office; the holding of any appointive government office of the State a, or any unit of local government authorized by the Constitution of the State of Illinois, which office entitles the holder to compensation in exceptage of that office currently or in the previous 3 years.	State of Illinois or the statues	
	nship to anyone holding appointive office currently or in the previous 2 daughter.	years; spouse, father, mother, YesNo	
(g) Employ	yment, currently or in the previous 3 years, as or by any registered lob	byist of the State government. YesNo	

e previous 2 years; spouse, father, mother, YesNo
s, by any registered election or reelection elerk of the State of Illinois, or any political the Federal Board of Elections. YesNo
r; who was a compensated employee in the registered with the Secretary of State or any ttee registered with either the Secretary of
Yes No
t of the bidder or offeror who is not identified ig, or may communicate with any State officer continuing obligation and must be prompout the term of the contract. If no person

4. Debarment Disclosure. For each of the persons identified under Sections 2 and 3 of this form, disclose whether any of the following has occurred within the previous 10 years: debarment from contracting with any governmental entity; professional licensure discipline; bankruptcies; adverse civil judgments and administrative findings; and criminal felony convictions. This disclosure is a continuing obligation and must be promptly supplemented for accuracy throughout the procurement process and term of the contract. If no person is identified, enter "None" on the line below:

Name of person(s):			
Nature of disclosure:			
Trace of dississance.			
ADDITO ADI E CTATEMENT			
APPLICABLE STATEMENT This Disclosure Form A is submitted on behalf of the INDIVIDUAL named on previous page. Un	dor		
penalty of perjury, I certify the contents of this disclosure to be true and accurate to the best of knowledge.			
Completed by:			
Signature of Individual or Authorized Representative Date			
NOT APPLICABLE STATEMENT	<u>.</u>		
Under penalty of perjury, I have determined that no individuals associated with this organization the criteria that would require the completion of this Form A.	n meet		
This Disclosure Form A is submitted on behalf of the CONTRACTOR listed on the previous page.			
Signature of Authorized Representative Date	_		

The bidder has a continuing obligation to supplement these disclosures under Sec. 50-35 of the Code.

ILLINOIS DEPARTMENT OF TRANSPORTATION

Form B Other Contracts & Financial Related Information Disclosure

Contractor Na	ıme				
Legal Address	3				
City, State, Zi	p				
Telephone Nu	ımber		Email Address	Fax Number (if avail	able)
			l s Form is required by Section 50 dicly available contract file. This		
	DISCLOSURE (OF OTHER (CONTRACTS AND PROCURE	MENT RELATED INF	ORMATION
has any per any other S	nding contracts (incl state of Illinois agend	luding leases cy: Yes _	ement Related Information. The s), bids, proposals, or other ongo	ping procurement rela	
	such as bid or proje		relationship by showing State o attach additional pages as neces		
		THE FOL	LOWING STATEMENT MUST I	BE CHECKED	
	П				
			Signature of Authorized Representative		Date
			OWNERSHIP CERTIFICA	TION	
	e certify that the foll of ownership.	owing stater	nent is true if the individuals for	all submitted Form F	A disclosures do not total
			erest is held by individuals rec outive income or holding less tha		
	☐ Yes ☐ No	□ N/A (I)	Form A disclosure(s) established	d 100% ownership)	

SPECIAL NOTICE TO CONTRACTORS

The following requirements of the Illinois Department of Human Rights Act 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 Title 44, Illinois Administrative Code, Section 750.120. 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.



PART I. IDENTIFICATION

Contract No. 85616
WINNEBAGO County
Section 04-00345-00-CH
Project M-5099(112)
Route FAU 5149 (Bell School Road)
District 2 Construction Funds

Dept. of Human Rig	hts #							Duratio	n of P	roject:								
Name of Bidder:																		
PART II. WORKFO A. The undersigned which this contract wo projection including a	bidder hark is to be	as analyz e perform	ed mir	d for th d fema	ne locat	ions fro	m whi	ch the b	idder re	ecruits	employe	es, and I	nerel	by subm	its the fol	lowir con	na workfo	n orce
		TOT	AL Wo	rkforce	Projec	tion for	Contra	act						(URREN	ΓЕМ	IPLOYE	S
				MINO	ORITY	EMPLO	YFFS			TR	AINEES			TO BE ASSIGNED TO CONTRACT				
JOB		TAL					*OT	HER	APP	REN-	ON T	HE JOB			TAL		_	RITY
CATEGORIES	EMPL(OYEES F	BL/	ACK F	HISP.	ANIC F	MIN M	IOR. F	TIC M	ES F	TRA M	INEES F	-	EMPL M	OYEES F	-	EMPL0 M	OYEES F
OFFICIALS (MANAGERS)	IVI	1	IVI		IVI	ı	IVI		IVI	<u> </u>	IVI	'		IVI	'		IVI	<u> </u>
SUPERVISORS																		
FOREMEN																		
CLERICAL																		
EQUIPMENT OPERATORS																		
MECHANICS																		
TRUCK DRIVERS																		
IRONWORKERS																		
CARPENTERS																		
CEMENT MASONS																		
ELECTRICIANS																		
PIPEFITTERS, PLUMBERS																		
PAINTERS																		
LABORERS, SEMI-SKILLED																		
LABORERS, UNSKILLED																		
TOTAL																		
т		BLE C	oiootio	n for C	`ontroot				1			FOI	R DE	PARTM	IENT US	E ON	ILY	
EMPLOYEES	OTAL Tra	aining Pri TAL	ojecilo 	11 101 C	ontract		*0	THER	1									
IN	EMPL	OYEES		ACK		PANIC	MI	NOR.	_									
TRAINING APPRENTICES	M	F	М	F	М	F	M	F	1									
ON THE JOB TRAINEES																		
*0	ther minori	ties are def	ined as	Asians ((A) or Nat	ive Amer	icans (N	J).	_		L							

Note: See instructions on page 2

Please specify race of each employee shown in Other Minorities column.

BC 1256 (Rev. 12/11/07)

Contract No. 85616
WINNEBAGO County
Section 04-00345-00-CH
Project M-5099(112)
Route FAU 5149 (Bell School Road)
District 2 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 loca new hires would be	ited; and/or (number)	a 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 di undersigned bidder as well as a projection of numbers of persons to be employed by subcontractors.								
	The undersigned bidder estimates that (number) be directly employed by the prime contractor and that (numeralloyed by subcontractors.	nber)	persons will be						
PART II	III. AFFIRMATIVE ACTION PLAN								
	The undersigned bidder understands and agrees that in utilization projection included under PART II is determined in any job category, and in the event that the undersigned commencement of work, develop and submit a written (geared to the completion stages of the contract) when utilization are corrected. Such Affirmative Action Plan will the Illinois Department of Human Rights .	I to be an underutilization and bidder is awarded the Affirmative Action Pla reby deficiencies in m	on of minority persons or women his contract, he/she will, prior to n including a specific timetable inority and/or female employee						
	The undersigned bidder understands and agrees that the r submitted herein, and the goals and timetable included und to be part of the contract specifications.								
Compa	pany	Telephone Numbe	r						
Addres	9SS								
	NOTICE REGARDING	SIGNATURE							
	Bidder's signature on the Proposal Signature Sheet will constitute completed only if revisions are required.	the signing of this form.	The following signature block needs						
Signatu	ature:	Title:	Date:						
Instruction	etions: All tables must include subcontractor personnel in addition to pri	me contractor personnel.							
Table A	A - Include both the number of employees that would be hired to (Table B) that will be allocated to contract work, and include all should include all employees including all minorities, apprentices	apprentices and on-the-job t	trainees. The "Total Employees" column						
Table B	B - Include all employees currently employed that will be allocated to currently employed.	o the contract work including	any apprentices and on-the-job trainees						
Table C	C - Indicate the racial breakdown of the total apprentices and on-the	-job trainees shown in Table	Α.						
			DO 1050 /D 10/11/07						

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. <u>CERTIFICATION, EQUAL EMPLOYMENT OPPORTUNITY:</u>

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

Contract No. 85616 WINNEBAGO County Section 04-00345-00-CH Project M-5099(112) Route FAU 5149 (Bell School Road) District 2 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.

Firm Name	
Signature of Owner	
Business Address	
Firm Name	
Ву	
Business Address	
	Name and Address of All Members of the Firm:
Corporate Name	
Ву	Signature of Authorized Representative
	Signature of Authorized Representative
	Typed or printed name and title of Authorized Representative
	, ,
Attest	Signature
Duningan Addungan	
Business Address	
Corporate Name	
-,	Signature of Authorized Representative
	Typed or printed name and title of Authorized Representative
	Typed of printed name and title of Authorized Representative
Attest	
	Signature
Business Address	
nlease attach an addit	onal signature sheet
	Signature of Owner Business Address Firm Name By Business Address Corporate Name By Attest Business Address Corporate Name By

Return with Bid



Division of Highways Annual Proposal Bid Bond

This Annual Proposal Bid Bond shall become effective at 12:01 AM (CDST) on	and shall be valid until 11:59 PM (CDST).
KNOW ALL PERSONS BY THESE PRESENTS, That We	
as PRINCIPAL, and	
price, or for the amount specified in the bid proposal under "	ne STATE OF ILLINOIS in the penal sum of 5 percent of the total bid 'Proposal Guaranty" in effect on the date of the Invitation for Bids, d STATE OF ILLINOIS, for the payment of which we bind ourselves,
	SUCH that whereas, the PRINCIPAL may submit bid proposal(s) to tof Transportation, for various improvements published in the e.
the time and as specified in the bidding and contract document into a contract in accordance with the terms of the bidding ar coverages and providing such bond as specified with good and the prompt payment of labor and material furnished in the prosenter into such contract and to give the specified bond, the P penalty hereof between the amount specified in the bid propo	d proposal(s) of the PRINCIPAL; and if the PRINCIPAL shall, within its; and if, after award by the Department, the PRINCIPAL shall enter and contract documents including evidence of the required insurance I sufficient surety for the faithful performance of such contract and for secution thereof; or if, in the event of the failure of the PRINCIPAL to RINCIPAL pays to the Department the difference not to exceed the sal and such larger amount for which the Department may contract oposal, then this obligation shall be null and void, otherwise, it shall
preceding paragraph, then Surety shall pay the penal sum to t Surety does not make full payment within such period of time	PAL has failed to comply with any requirement as set forth in the he Department within fifteen (15) days of written demand therefor. If e, the Department may bring an action to collect the amount owed. If attorney's fees, incurred in any litigation in which it prevails either in
In TESTIMONY WHEREOF, the said PRINCIPAL has caused this instrument to be signed by its officer day of A.D.,	In TESTIMONY WHEREOF, the said SURETY has caused this instrument to be signed by its officer day of A.D.,
(Company Name)	(Company Name)
Ву	Ву
(Signature and Title)	(Signature of Attorney-in-Fact)
Notary for PRINCIPAL	Notary for SURETY
STATE OF	STATE OF
COUNTY OF	COUNTY OF
Signed and attested before me on (date)	Signed and attested before me on (date)
by	
(Name of Notary Public)	(Name of Notary Public)
(Seal) (Signature of Notary Public)	(Seal) (Signature of Notary Public)
(Date Commission Expires)	(Date Commission Expires)

signing the proposal(s) 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.

In lieu of completing the above section of the Annual Proposal Bid Bond form, the Principal may file an Electronic Bid Bond. By

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

This bond may be terminated, at Surety's request, upon giving not less than thirty (30) days prior written notice of the cancellation/termination of the bond. Said written notice shall be issued to the Illinois Department of Transportation, Chief Contracts Official, 2300 South Dirksen Parkway, Springfield, Illinois, 62764, and shall be served in person, by receipted courier delivery or certified or registered mail, return receipt requested. Said notice period shall commence on the first calendar day following the Department's receipt of written cancellation/termination notice. Surety shall remain firmly bound to all obligations herein for proposals submitted prior to the cancellation/termination. Surety shall be released and discharged from any obligation(s) for proposals submitted for any letting or date after the effective date of cancellation/termination.

Illinois Department of Transportation

Return with Bid

Division of Highways Proposal Bid Bond

		Item No.	
		Letting Date	e
(NOW ALL PERSONS BY THE	SE PRESENTS, That We		
as PRINCIPAL, and			
the amount specified in the bid	proposal under "Proposal Guaranty" i	in effect on the date of the Invitation for	of 5 percent of the total bid price, or for r Bids, whichever is the lesser sum, well s, executors, administrators, successors
			omitted a bid proposal to the STATE OF retation Bulletin Item Number and Letting
specified in the bidding and cor with the terms of the bidding and with good and sufficient surety prosecution thereof; or if, in the pays to the Department the diffe	ntract documents; and if, after award documents including evide for the faithful performance of such event of the failure of the PRINCIP perence not to exceed the penalty here tract with another party to perform the	by the Department, the PRINCIPAL sence of the required insurance coverage contract and for the prompt payment AL to enter into such contract and to go for between the amount specified in the	RINCIPAL shall, within the time and as shall enter into a contract in accordance es and providing such bond as specified t of labor and material furnished in the give the specified bond, the PRINCIPAL bid proposal and such larger amount for the this obligation shall be null and void,
hen Surety shall pay the penal within such period of time, the [sum to the Department within fiftee	n (15) days of written demand therefo ollect the amount owed. Surety is liable	as set forth in the preceding paragraph, r. If Surety does not make full payment e to the Department for all its expenses,
n TESTIMONY WHEREOF, caused this instrument to be day of		In TESTIMONY WHEREOF, instrument to be signed by its day of	the said SURETY has caused this officer A.D.,
(Compa	any Name)	(Com	pany Name)
Зу		Ву	
(Sign	ature and Title)		e of Attorney-in-Fact)
Notary for PRINCIPAL		Notary for SURETY	
STATE OF		STATE OF	
COUNTY OF		COUNTY OF	
Signed and attested before r	ne on (date)	Signed and attested before m	ne on (date)
(Name of	Notary Public)	(Name o	f Notary Public)
(Seal)		(Seal)	
,,	(Signature of Notary Public)		(Signature of Notary Public)
	(Date Commission Expires)	_	(Date Commission Expires)
proposal the Principal is en		oid bond has been executed and	Electronic Bid Bond. By signing the the Principal and Surety are firmly
Electronic Bid Bond ID #	Company/Bidder Nan	ne	Signature and Title



DBE Utilization Plan

(1) Policy

It is public policy that disadvantaged businesses as defined in 49 CFR Part 26 and the Special Provision shall have the maximum opportunity to participate in the performance of contracts financed in whole or in part with Federal or State funds. Consequently the requirements of 49 CFR Part 26 apply to this contract.

(2) Obligation

Date

The contractor agrees to ensure that disadvantaged businesses as defined in 49 CFR Part 26 and the Special Provision have the maximum opportunity to participate in the performance of contracts or subcontracts financed in whole or in part with Federal or State funds. The contractor shall take all necessary and reasonable steps in accordance with 49 CFR Part 26 and the Special Provision to ensure that said businesses have the maximum opportunity to compete for and perform under this contract. The contractor shall not discriminate on the basis of race, color, national origin or sex in the award and performance of contracts.

(3) Pro	ject and Bid Identification			
Complet	te the following information concerning the project and bid:			
Route		Total Bid		_
Section		Contract DBE Goal		
Project			(Percent)	(Dollar Amount)
County				
Letting [Date			
Contrac	t No.			
Letting I	Item No.			
(4) Ass	surance			
	in my capacity as an officer of the undersigned bidder (or bidding company: (check one) Meets or exceeds contract award goals and has provided do Disadvantaged Business Participation percent Attached are the signed participation statements, forms SBE use of each business participating in this plan and assuring the work of the contract. Failed to meet contract award goals and has included good for provided participation as follows: Disadvantaged Business Participation percent The contract goals should be accordingly modified or waiv support of this request including good faith effort. Also a required by the Special Provision evidencing availability and	cumented participation as fort 2025, required by the Spectat each business will perfort aith effort documentation to the ed. Attached is all informattached are the signed participation.	cial Provision evident a commercial meet the goals a stion required by articipation state	dencing availability and ly useful function in the and that my company has the Special Provision in the ments, forms SBE 2025,
	business will perform a commercially useful function in the wo			
Bv	Company	The "as read" Low Bidder is re		•
•		Submit only one utilization pla submitted in accordance with		
Title		Bureau of Small Business Ent	erprises	Local Let Projects

The Department of Transportation is requesting disclosure of information that is necessary to accomplish the purpose as outlined under State and Federal law. Disclosure of this information is **REQUIRED**. Failure to provide any information will result in the contract not being awarded. This form has been approved by the State Forms Manager Center.

2300 South Dirksen Parkway

Springfield, Illinois 62764

Submit forms to the

Local Agency



DBE Participation Statement

Subcontractor	Registration Num	ber	Letting					
Participation Statement				Item No.				
(1) Instruction	าร			С	ontract No.			
This form must be completed for each disadvantaged business participat accordance with the special provision and will be attached to the Utilization additional form for the firm. Trucking participation items; description must				an form. If addition	nal space is needed	l complete an		
(2) Work:								
Please indicat	te: J/V	Manufacturer	Supplier (60%)	Subcor	tractor	Trucking		
Pay Item No.	Descri	ption (Anticipated items	for trucking)*	Quantity	Unit Price	Total		
(2) Doutiel De	umant Itama (Far	any of the above items y	uhiah ava navtial nav it	a-ma)	Total			
	ist be sufficient to d	any of the above items v letermine a Commercially			work and subcontrac	t dollar amount:		
subcontract, it	is to be a second-t must be clearly in	tier subcontractor, or if the dicated on the DBE Par	ticipation Statement, a	and the details of the	ne transaction fully	explained.		
In the event a contract, the p	DBE subcontractorime must submit	or second-tiers a portion a DBE Participation Sta	of its subcontract to o tement, with the detail	ne or more subcor s of the transaction	ntractors during the n(s) fully explained.	work of a		
perform a com contractor or 1 prior approval	The undersigned certify that the information included herein is true and correct, and that the DBE firm listed below has agreed to perform a commercially useful function in the work of the contract item(s) listed above and to execute a contract with the prime contractor or 1 st Tier subcontractor. The undersigned further understand that no changes to this statement may be made without prior approval from the Department's Bureau of Small Business Enterprises and that complete and accurate information regarding actual work performed on this project and the payment therefore must be provided to the Department.							
ű	nature for Contractor_	1 st Tier 2 nd Tier		•	DBE Firm 1 st Tier	2 nd Tier		
Contact Pers	on		Cont	Contact Person				
Title			Title					
Firm Name				Firm Name				
Address				ess				
City/State/Zip			City/	State/Zip				
Phone				Phone				
Email Address				il Address				
					E			
The Department of To-	anapartation is requesting all	and any and information that in passage	with accomplish the statut	ann an airitimed i mades 454-	to and WC			

The Department of Transportation is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under the state and federal law. Disclosure of this information is **REQUIRED**. Failure to provide any information will result in the contract not being awarded. This form has been approved by the State Forms Management Center.

PROPOSAL ENVELOPE



PROPOSALS

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

Item No.	Item No.	Item No.

Submitted By:

lame:	
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. 85616 WINNEBAGO County Section 04-00345-00-CH Project M-5099(112) Route FAU 5149 (Bell School Road) District 2 Construction Funds



SUBCONTRACTOR DOCUMENTATION

Public Acts 96-0795, 96-0920, and 97-0895 enacted substantial changes to the provisions of the Code (30 ILCS 500). Among the changes are provisions affecting subcontractors. The Contractor awarded this contract will be required as a material condition of the contract to implement and enforce the contract requirements applicable to subcontractors that entered into a contractual agreement with a total value of \$50,000 or more with a person or entity who has a contract subject to the Code and approved in accordance with article 108.01 of the Standard Specifications for Road and Bridge Construction.

If the Contractor seeks approval of subcontractors to perform a portion of the work, and approval is granted by the Department, the Contractor shall provide a copy of the subcontract to the Illinois Department of Transportation's CPO upon request within 15 calendar days after execution of the subcontract.

Financial disclosures required pursuant to Sec. 50-35 of the Code must be submitted for all applicable subcontractors. The subcontract shall contain the certifications required to be made by subcontractors pursuant to Article 50 of the Code. This Notice to Bidders includes a document incorporating all required subcontractor certifications and disclosures for use by the Contractor in compliance with this mandate. The document is entitled <u>State Required Ethical Standards Governing Subcontractors</u>.

STATE ETHICAL STANDARDS GOVERNING SUBCONTRACTORS

Article 50 of the Code establishes the duty of all State CPOs, SPOs, 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.

The certifications hereinafter made by the subcontractor are each a material representation of fact upon which reliance is placed should the Department approve the subcontractor. The CPO may terminate or void the contract approval if it is later determined that the bidder or subcontractor rendered a false or erroneous certification. If a false certification is made by a subcontractor the contractor's submitted bid and the executed contract may not be declared void unless the contractor refuses to terminate the subcontract upon the State's request after a finding that the subcontractor's certification was false.

Section 50-2 of the Code provides that every person that has entered into a multi-year contract and every subcontractor with a multi-year subcontract shall certify, by July 1 of each fiscal year covered by the contract after the initial fiscal year, to the responsible CPO whether it continues to satisfy the requirements of Article 50 pertaining to the eligibility for a contract award. If a contractor or subcontractor is not able to truthfully certify that it continues to meet all requirements, it shall provide with its certification a detailed explanation of the circumstances leading to the change in certification status. A contractor or subcontractor that makes a false statement material to any given certification required under Article 50 is, in addition to any other penalties or consequences prescribed by law, subject to liability under the Whistleblower Reward and Protection Act for submission of a false claim.

A. Bribery

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, or subcontracting under such a contract, 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, or which is signatory to the contract to which the subcontract relates, 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 2012.
- (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, and every subcontract subject to Section 20-120 of the Code shall contain a certification by the contractor or the subcontractor, respectively, that the contractor or subcontractor is not barred from being awarded a contract or subcontract under this Section and acknowledges that the CPO may declare the related contract void if any certifications required by this Section are false. A contractor who makes a false statement, material to the certification, commits a Class 3 felony.

The contractor or subcontractor certifies that it is not barred from being awarded a contract under Section 50-5.

B. Felons

Section 50-10. Felons.

- (a) Unless otherwise provided, no person or business convicted of a felony shall do business with the State of Illinois or any State agency, or enter into a subcontract, 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.
- (b) Certification. Every bid submitted to and contract executed by the State and every subcontract subject to Section 20-120 of the Code shall contain a certification by the bidder or contractor or subcontractor, respectively, that the bidder, contractor, or subcontractor is not barred from being awarded a contract or subcontract under this Section and acknowledges that the CPO may declare the related contract void if any of the certifications required by this Section are false.

C. <u>Debt Delinquency</u>

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

The contractor or bidder or subcontractor, respectively, certifies that it, or any affiliate, is not barred from being awarded a contract or subcontract under the Code. Section 50-11 prohibits a person from entering into a contract with a State agency, or entering into a subcontract, 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, or entering into a subcontract, 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 bidder or contractor or subcontractor, respectively, further acknowledges that the CPO may declare the related contract void if this certification is false or if the bidder, contractor, or subcontractor, or any affiliate, is determined to be delinquent in the payment of any debt to the State during the term of the contract.

D. Prohibited Bidders, Contractors and Subcontractors

Section 50-10.5 and 50-60(c). Prohibited bidders, contractors and subcontractors.

The bidder or contractor or subcontractor, respectively, 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 or if in violation of Subsection (c) for a period of five years from the date of conviction. Every bid submitted to and contract executed by the State and every subcontract subject to Section 20-120 of the Code shall contain a certification by the bidder, contractor, or subcontractor, respectively, that the bidder, contractor, or subcontract is not barred from being awarded a contract or subcontract under this Section and acknowledges that the CPO shall declare the related contract void if any of the certifications completed pursuant to this Section are false.

E. Section 42 of the Environmental Protection Act

The bidder or contractor or subcontractor, respectively, certifies in accordance with 30 ILCS 500/50-14 that the bidder, contractor, or subcontractor, is not barred from being awarded a contract or entering into a subcontract under this Section which prohibits the bidding on or entering into contracts with the State of Illinois or a State agency, or entering into any subcontract, that is subject to the Code 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 bidder or contractor or subcontractor, respectively, acknowledges that the CPO may declare the contract void if this certification is false.

The undersigned, on behalf of the subcontracting company, has read and understands the above certifications and makes the certifications as required by law.

Name of Subcontracting Company

Authorized Officer

Date

SUBCONTRACTOR DISCLOSURES

I. DISCLOSURES

A. The disclosures hereinafter made by the subcontractor are each a material representation of fact upon which reliance is placed. The subcontractor further certifies that the Department has received the disclosure forms for each subcontract.

The CPO may void the bid, contract, or subcontract, respectively, if it is later determined that the bidder or subcontractor rendered a false or erroneous disclosure. A contractor or subcontractor may be suspended or debarred for violations of the Code. Furthermore, the CPO may void the contract.

B. Financial Interests and Conflicts of Interest

1. Section 50-35 of the Code provides that all subcontracts with a total value of \$50,000 or more, from subcontractors identified in Section 20-120 of the Code, shall be accompanied by disclosure of the financial interests of the subcontractor. This disclosed information for the subcontractor, will be maintained as public information subject to release by request pursuant to the Freedom of Information Act, filed with the Procurement Policy Board, and shall be incorporated as a material term of the Prime Contractor's contract. Furthermore, pursuant to this Section, the Procurement Policy Board may recommend to allow or void a contract or subcontract based on a potential conflict of interest.

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 subcontracting entity or its parent entity, whichever is less, unless the subcontractor 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 subcontractor is a privately held entity that is exempt from Federal 10K reporting, but has more than 100 shareholders, it may submit the information that Federal 10K companies are required to report, and list the names of any individual 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 individual 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 individual making the disclosure having any of the relationships identified in Section 50-35 and on the disclosure form.

The current annual salary of the Governor is \$177,412.00.

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

2. <u>Disclosure Forms</u>. Disclosure Form A is attached for use concerning the individuals meeting the above ownership or distributive share requirements. A separate Disclosure Form A must be submitted with the bid for each individual meeting the above requirements. In addition, a second form (Disclosure Form B) provides for the disclosure of current or pending procurement relationships with other (non-IDOT) state agencies and a total ownership certification. **The forms must be included with each bid.**

C. <u>Disclosure Form Instructions</u>

Form A Instructions for Financial Information & Potential Conflicts of Interest

If the subcontractor 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 subcontractor is a privately held entity that is exempt from Federal 10K reporting, but has more than 100 shareholders, it may submit the information that Federal 10K companies are required to report, and list the names of any individual or entity holding any ownership share that is in excess of 5%. If a subcontractor is not subject to Federal 10K reporting, the subcontractor must determine if any individuals are required by law to complete a financial disclosure form. To do this, the subcontractor 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 an individual that is authorized to execute contracts for the subcontracting 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 60% of the annual salary of the Governor? YESNO
3.	Does anyone in your organization receive more than 60% of the annual salary of the Governor of the subcontracting entity's or parent entity's distributive income? YES NO
	(Note: Distributive income is, for these purposes, any type of distribution of profits. An annual salary is not distributive income.)
4.	Does anyone in your organization receive greater than 5% of the subcontracting entity's or parent entity's total distributive income, but which is less than 60% of the annual salary of the Governor? YES NO
	(Note: Only one set of forms needs to be completed <u>per individual per subcontract</u> even if a specific individual would require a yes answer to more than one question.)
'FS"	answer to any of these questions requires the completion of Form A. The subcontractor must determine each individual in

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

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

Form B: Instructions for Identifying Other Contracts & Procurement Related Information

Disclosure Form B must be completed for each subcontract submitted by the subcontracting entity. *Note: Checking the <u>NOT APPLICABLE STATEMENT</u> on Form A <u>does not</u> allow the subcontractor to ignore Form B. Form B must be completed, checked, and dated or the subcontract will not be approved.*

The Subcontractor shall identify, by checking Yes or No on Form B, whether it has any pending contracts, subcontracts, leases, bids, proposals, or other ongoing procurement relationship with any other (non-IDOT) State of Illinois agency. If "No" is checked, the subcontractor only needs to complete the check box on the bottom of Form B. If "Yes" is checked, the subcontractor must list all non-IDOT State of Illinois agency pending contracts, subcontracts, leases, bids, proposals, and other ongoing procurement relationships. These items may be listed on Form B or on an attached sheet(s). Contracts with cities, counties, villages, etc. are not considered State of Illinois agency contracts and are not to be included. Contracts or subcontracts with other State of Illinois agencies such as the Department of Natural Resources or the Capital Development Board must be included.

ILLINOIS DEPARTMENT OF TRANSPORTATION

Form A Subcontractor: Financial Information & Potential Conflicts of Interest Disclosure

Subcontractor Name		
Subcontractor Name		
Legal Address		
Legal Address		
City, State, Zip		
Oity, State, Zip		
Telephone Number	Email Address	Fax Number (if available)
relephone Number	Liliali Addiess	i ax inuitibei (ii available)

Disclosure of the information contained in this Form is required by Section 50-35 of the Code (30 ILCS 500). Subcontractors desiring to enter into a subcontract of a State of Illinois contract 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 subcontracts with a total value of \$50,000 or more, from subcontractors identified in Section 20-120 of the Code, and for all openended 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.

The current annual salary of the Governor is \$177,412.00.

FOR INDIVIDUAL (type or print information)

DISCLOSURE OF FINANCIAL INFORMATION

1. Disclosure of Financial Information. The individual named below has an interest in the SUBCONTRACTOR (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 60% of the annual salary of the Governor. (Make copies of this form as necessary and attach a separate Disclosure Form A for each individual meeting these requirements)

TOTT INDIVIDUAL (type or print information)		
NAME:			
ADDRESS _			
Type of owner	ship/distributable income share:	:	
stock % or \$ value of	sole proprietorship ownership/distributable income sh	Partnershipare:	other: (explain on separate shee
	nterest relationships apply. If the		dicate which, if any, of the following is "Yes", please attach additional
(a) State employme	nt, currently or in the previous 3	years, including contractu	ual employment of services. Yes No
If your answer is	yes, please answer each of the	e following questions.	<u> </u>
-	currently an officer or employee way Authority?	e of either the Capitol Deve	elopment Board or the Illinois State YesNo
currently exceeds	currently appointed to or emplo appointed to or employed by a 60% of the annual salary of the or which you are employed and	ny agency of the State of le Governor, provide the na	Illinois, and your annual salary

	3.	If you are currently appointed to or employed by any agency of t salary exceeds 60% of the annual salary of the Governor, are yo (i) more than 7 1/2% of the total distributable income of your corporation, or (ii) an amount in excess of 100% of the annual salary	ou entitled to receive firm, partnership, association or
	4.	If you are currently appointed to or employed by any agency of the salary exceeds 60% of the annual salary of the Governor, are your minor children entitled to receive (i) more than 15% in the income of your firm, partnership, association or corporation, or the salary of the Governor?	ou and your spouse aggregate of the total distributable
(b)		employment of spouse, father, mother, son, or daughter, includir previous 2 years.	ng contractual employment services YesNo
	If	your answer is yes, please answer each of the following question	
	1.	Is your spouse or any minor children currently an officer or empl Board or the Illinois State Toll Highway Authority?	oyee of the Capitol Development YesNo
		Is your spouse or any minor children currently appointed to or er of Illinois? If your spouse or minor children is/are currently agency of the State of Illinois, and his/her annual salary ex annual salary of the Governor, provide the name of your spouse of the State agency for which he/she is employed and his/her an	appointed to or employed by any ceeds 60% of the and/or minor children, the name
	3.	If your spouse or any minor children is/are currently appointed to State of Illinois, and his/her annual salary exceeds 60% of the are you entitled to receive (i) more than 71/2% of the total distribution, partnership, association or corporation, or (ii) an amount annual salary of the Governor?	nnual salary of the Governor, utable income of your
	4.	If your spouse or any minor children are currently appointed to State of Illinois, and his/her annual salary exceeds 60% of the are you and your spouse or minor children entitled to receive aggregate of the total distributable income of your firm, partner (ii) an amount in excess of two times the salary of the Governor?	nual salary of the Governor, (i) more than 15 % in the ship, association or corporation, or
(-)	- 1		YesNo
(C)	unit of	ve status; the holding of elective office of the State of Illinois, the glocal government authorized by the Constitution of the State of Ill currently or in the previous 3 years.	
(d)		onship to anyone holding elective office currently or in the previour daughter.	s 2 years; spouse, father, mother, YesNo
(e)	Americ of the	ntive office; the holding of any appointive government office of the ca, or any unit of local government authorized by the Constitution State of Illinois, which office entitles the holder to compensation is charge of that office currently or in the previous 3 years.	of the State of Illinois or the statutes
		onship to anyone holding appointive office currently or in the previous daughter.	ous 2 years; spouse, father, mother, YesNo
(g)	Emplo	yment, currently or in the previous 3 years, as or by any registere	d lobbyist of the State government. YesNo

(h) Relationship to anyone who is or was a registered lobbyist son, or daughter.	in the previous 2 years; spouse, father, mother, YesNo
(i) Compensated employment, currently or in the previous 3 y committee registered with the Secretary of State or any contact action committee registered with either the Secretary of States	ounty clerk of the State of Illinois, or any political
(j) Relationship to anyone; spouse, father, mother, son, or data last 2 years by any registered election or re-election common county clerk of the State of Illinois, or any political action of State or the Federal Board of Elections.	ttee registered with the Secretary of State or any ommittee registered with either the Secretary of
	YesNo
Communication Disclosure.	
Disclose the name and address of each lobbyist and other a Section 2 of this form, who is has communicated, is communic employee concerning the bid or offer. This disclosure i supplemented for accuracy throughout the process and throidentified, enter "None" on the line below:	eating, or may communicate with any State officer or s a continuing obligation and must be promptly
Name and address of person(s):	

3

4. Debarment Disclosure. For each of the persons identified under Sections 2 and 3 of this form, disclose whether any of the following has occurred within the previous 10 years: debarment from contracting with any governmental entity; professional licensure discipline; bankruptcies; adverse civil judgments and administrative findings; and criminal felony convictions. This disclosure is a continuing obligation and must be promptly

supplemented for accuracy throughout the procurement process and term of the contract. If no person is identified, enter "None" on the line below: Name of person(s): Nature of disclosure: APPLICABLE STATEMENT This Disclosure Form A is submitted on behalf of the INDIVIDUAL named on previous page. Under penalty of perjury, I certify the contents of this disclosure to be true and accurate to the best of my knowledge. Completed by: Signature of Individual or Authorized Officer Date **NOT APPLICABLE STATEMENT** Under penalty of perjury, 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 SUBCONTRACTOR listed on the previous page. Signature of Authorized Officer Date

ILLINOIS DEPARTMENT OF TRANSPORTATION

Form B Subcontractor: Other Contracts & Financial Related Information Disclosure

Subcontractor Name		
Legal Address		
City, State, Zip		
Telephone Number	Email Address	Fax Number (if available)
Disclosure of the information contained in information shall become part of the publicl a total value of \$50,000 or more, from subcontracts.	y available contract file. This Form	B must be completed for subcontracts with
DISCLOSURE OF OTHER CONTRA	CTS, SUBCONTRACTS, AND PRO	OCUREMENT RELATED INFORMATION
1. Identifying Other Contracts & Procure any pending contracts, subcontracts, includ any other State of Illinois agency: Ye If "No" is checked, the subcontractor only	ing leases, bids, proposals, or othe sNo	r ongoing procurement relationship with
2. If "Yes" is checked. Identify each such information such as bid or project number (a INSTRUCTIONS:		
THE FOLLO	WING STATEMENT MUST BE CH	ECKED
П		
	Signature of Authorized Officer	Date
	OWNERSHIP CERTIFICATION	
Please certify that the following statement is of ownership	s true if the individuals for all submit	ted Form A disclosures do not total 100%
Any remaining ownership interest is parent entity's distributive income o		han \$106,447.20 of the bidding entity's or interest.
□ Ves □ No □ N/A (Form	A disclosura(s) established 100% of	wnershin)

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. Electronic bids are to be submitted to the electronic bidding system (iCX-Integrated Contractors Exchange). Paper-based bids are to be submitted to the Chief Procurement Officer for the Department of Transportation in care of the Chief Contracts Official at the Harry R. Hanley Building, 2300 South Dirksen Parkway, in Springfield, Illinois until 10:00 a.mJuly 31, 2015. 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 10:00 a.m.
- **2. DESCRIPTION OF WORK**. The proposed improvement is identified and advertised for bids in the Invitation for Bids as:

Contract No. 85616
WINNEBAGO County
Section 04-00345-00-CH
Project M-5099(112)
Route FAU 5149 (Bell School Road)
District 2 Construction Funds

Pavement widening, resurfacing, curb and gutter, storm sewer, sidewalks, shared-use path, retaining walls, modify traffic signals, install traffic signals and roadway lighting from south of Lucky Lane to north of Argus Drive and along Business US 30 from Sundae Drive to Bell School Road.

- 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

Randall S. Blankenhorn, Acting Secretary

CONTRACT 85616

INDEX FOR SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2015

This index contains a listing of SUPPLEMENTAL SPECIFICATIONS, frequently used RECURRING SPECIAL PROVISIONS, and LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS.

ERRATA Standard Specifications for Road and Bridge Construction (Adopted 1-1-12) (Revised 1-1-15)

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Effective as of the: March 6, 2015 Letting

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GBSP 17 Bonded Preformed Joint Seal July 12, 1994 Jan 1, 2007 GBSP 18 Modular Expansion Joint May 19, 1994 Dec 29, 2014 Structures Cleaning and Painting Contact Surface Areas of Existing Steel June 30, 2003 May 18, 2011 Structures GBSP 25 Cleaning and Painting Existing Steel Structures Oct 2, 2001 April 30, 2010 GBSP 26 Containment and Disposal of Lead Paint Cleaning Residues Oct 2, 2001 April 30, 2010 GBSP 28 Deck Slab Repair May 15, 1995 Oct 15, 2011 GBSP 29 Bridge Deck Microsilica Concrete Overlay May 15, 1995 Dec 29, 2014 GBSP 30 Bridge Deck Latex Concrete Overlay May 15, 1995 Dec 29, 2014 GBSP 31 Bridge Deck Latex Concrete Overlay May 15, 1995 Dec 29, 2014 GBSP 31 Bridge Deck High-Reactivity Metakaolin (HRM) Conc Overlay Jan 21, 2000 Dec 29, 2014 GBSP 32 Temporary Sheet Piling Sept 2, 1994 Jan 31, 2012 GBSP 33 Pedestrian Truss Superstructure Jan 13, 1998 Dec 29, 2014 GBSP 34 Concrete Wearing Surface June 23, 1994 Feb 6, 2013 GBSP 35 Silicone Bridge Joint Sealer Aug 1, 1995 Oct 15, 2011 GBSP 38 Mechanically Stabilized Earth Retaining Walls Sept 20, 2001 Jan 3, 2014 GBSP 42 Drilled Soldier Pile Retaining Wall Sept 20, 2001 Jan 3, 2014 GBSP 43 Driven Soldier Pile Retaining Wall Nov 13, 2002 May 11, 2009 GBSP 45 Bridge Deck Thin Polymer Overlay May 7, 1997 Feb 6, 2013 GBSP 46 Geotextile Retaining Walls Sept 19, 2003 July 26, 2013 GBSP 55 Bridge Deck Thin Polymer Overlay May 17, 2000 Jan 2, 2010 GBSP 55 Structural Repair of Concrete Mar 15, 2006 Aug 29, 2014 GBSP 57 Temporary Mechanically Stabilized Earth Retaining Walls Sept 19, 2003 Dec 29, 2014 GBSP 56 Setting Piles in Rock Nov 14, 1996 April 19, 2012 GBSP 66 Setting Piles in Rock Nov 14, 2009 April 19, 2012 GBSP 67 Temporary Mechanically Stabilized Earth Retaining Walls Jan 6, 2009 May 13, 2009 GBSP 64 Segmental Concrete Block Wall Jan 7, 1999 Oct 30,			GBSP 16	Jacking Existing Superstructure		
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GBSP 38 Mechanically Stabilized Earth Retaining Walls Feb 3, 1999 Dec 29, 2014 GBSP 42 Drilled Soldier Pile Retaining Wall Sept 20, 2001 Jan 3, 2014 GBSP 43 Driven Soldier Pile Retaining Wall Nov 13, 2002 Jan 3, 2014 GBSP 44 Temporary Soil Retention System Dec 30, 2002 May 11, 2009 GBSP 45 Bridge Deck Thin Polymer Overlay May 7, 1997 Feb 6, 2013 GBSP 46 Geotextile Retaining Walls Sept 19, 2003 July 26, 2013 GBSP 51 Pipe Underdrain for Structures May 17, 2000 Jan 22, 2010 GBSP 53 Structural Repair of Concrete Mar 15, 2006 Aug 29, 2014 GBSP 55 Erection of Curved Steel Structures June 1, 2007 GBSP 56 Setting Piles in Rock Nov 14, 1996 April 19, 2012 GBSP 57 Temporary Mechanically Stabilized Earth Retaining Walls Jan 6, 2003 Dec 29, 2014 GBSP 60 Containment and Disposal of Non-Lead Paint Cleaning Residues Nov 25, 2004 Mar 6, 2009 GBSP 61 Slipform Parapet June 1, 2007 Dec 29, 2014 GBSP 62			GBSP 34	Concrete Wearing Surface	June 23, 1994	Feb 6, 2013
GBSP 42 Drilled Soldier Pile Retaining Wall GBSP 43 Driven Soldier Pile Retaining Wall GBSP 44 Temporary Soil Retention System Dec 30, 2002 May 11, 2009 GBSP 45 Bridge Deck Thin Polymer Overlay May 7, 1997 Feb 6, 2013 GBSP 46 Geotextile Retaining Walls GBSP 51 Pipe Underdrain for Structures May 17, 2000 Jan 22, 2010 GBSP 53 Structural Repair of Concrete Mar 15, 2006 Aug 29, 2014 GBSP 55 Erection of Curved Steel Structures June 1, 2007 GBSP 56 Setting Piles in Rock Nov 14, 1996 April 19, 2012 GBSP 57 Temporary Mechanically Stabilized Earth Retaining Walls GBSP 59 Diamond Grinding and Surface Testing Bridge Sections GBSP 60 Containment and Disposal of Non-Lead Paint Cleaning Residues GBSP 61 Slipform Parapet June 1, 2007 Dec 29, 2014 GBSP 62 Concrete Deck Beams GBSP 64 Segmental Concrete Block Wall GBSP 67 Structural Assessment Reports for Contractor's Means and Mar 6, 2009 Methods Mar 6, 2009 Mar 19, 2001 Dec 29, 2014				Silicone Bridge Joint Sealer	Aug 1, 1995	Oct 15, 2011
GBSP 43 Driven Soldier Pile Retaining Wall GBSP 44 Temporary Soil Retention System Dec 30, 2002 May 11, 2009 GBSP 45 Bridge Deck Thin Polymer Overlay May 7, 1997 Feb 6, 2013 GBSP 46 Geotextile Retaining Walls Sept 19, 2003 July 26, 2013 GBSP 51 Pipe Underdrain for Structures May 17, 2000 Jan 22, 2010 GBSP 53 Structural Repair of Concrete Mar 15, 2006 Aug 29, 2014 GBSP 55 Erection of Curved Steel Structures June 1, 2007 GBSP 56 Setting Piles in Rock Nov 14, 1996 April 19, 2012 GBSP 57 Temporary Mechanically Stabilized Earth Retaining Walls GBSP 59 Diamond Grinding and Surface Testing Bridge Sections GBSP 60 Containment and Disposal of Non-Lead Paint Cleaning Residues GBSP 61 Slipform Parapet GBSP 62 Concrete Deck Beams June 1, 2007 Dec 29, 2014 GBSP 64 Segmental Concrete Block Wall Jan 7, 1999 Oct 30, 2012 S1 X GBSP 65 Precast Modular Retaining Walls Mar 6, 2009 Methods Mar 6, 2009 Mar 19, 2001 Dec 29, 2014 Mar 6, 2009			GBSP 38	Mechanically Stabilized Earth Retaining Walls	Feb 3, 1999	Dec 29, 2014
GBSP 44 Temporary Soil Retention System GBSP 45 Bridge Deck Thin Polymer Overlay GBSP 46 Geotextile Retaining Walls GBSP 47 Pipe Underdrain for Structures GBSP 51 Pipe Underdrain for Structures GBSP 53 Structural Repair of Concrete GBSP 55 Erection of Curved Steel Structures GBSP 56 Setting Piles in Rock GBSP 57 Temporary Mechanically Stabilized Earth Retaining Walls GBSP 59 Diamond Grinding and Surface Testing Bridge Sections GBSP 60 Containment and Disposal of Non-Lead Paint Cleaning Residues GBSP 61 Slipform Parapet GBSP 62 Concrete Deck Beams GBSP 63 Segmental Concrete Block Wall GBSP 66 Structural Assessment Reports for Contractor's Means and Methods May 17, 2002 May 11, 2003 May 11, 2009 May 17, 2000 May 11, 2009 May 12, 2013 May 17, 2000 May 11, 2009 July 26, 2013 May 17, 2000 May 12, 2001 May 17, 2000 Aug 29, 2014 Nov 14, 1996 April 19, 2012 June 1, 2007 Dec 29, 2014 Nov 25, 2004 Mar 6, 2009 Mar 6, 2009 Mar 19, 2001 Dec 29, 2014 Mar 6, 2009 Mar 19, 2001 Dec 29, 2014				Drilled Soldier Pile Retaining Wall	Sept 20, 2001	Jan 3, 2014
GBSP 45 Bridge Deck Thin Polymer Overlay May 7, 1997 Feb 6, 2013 GBSP 46 Geotextile Retaining Walls Sept 19, 2003 July 26, 2013 GBSP 51 Pipe Underdrain for Structures May 17, 2000 Jan 22, 2010 GBSP 53 Structural Repair of Concrete Mar 15, 2006 Aug 29, 2014 GBSP 55 Erection of Curved Steel Structures June 1, 2007 GBSP 56 Setting Piles in Rock Nov 14, 1996 April 19, 2012 GBSP 57 Temporary Mechanically Stabilized Earth Retaining Walls Jan 6, 2003 Dec 29, 2014 GBSP 59 Diamond Grinding and Surface Testing Bridge Sections Dec 6, 2004 Jan 3, 2014 GBSP 60 Containment and Disposal of Non-Lead Paint Cleaning Residues GBSP 61 Slipform Parapet June 1, 2007 Dec 29, 2014 GBSP 62 Concrete Deck Beams June 13, 2008 Oct 9, 2009 GBSP 64 Segmental Concrete Block Wall Jan 7, 1999 Oct 30, 2012 51 X GBSP 67 Structural Assessment Reports for Contractor's Means and Methods Mar 6, 2009					Nov 13, 2002	Jan 3, 2014
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GBSP 51 Pipe Underdrain for Structures May 17, 2000 Jan 22, 2010 GBSP 53 Structural Repair of Concrete Mar 15, 2006 Aug 29, 2014 GBSP 55 Erection of Curved Steel Structures June 1, 2007 GBSP 56 Setting Piles in Rock Nov 14, 1996 April 19, 2012 GBSP 57 Temporary Mechanically Stabilized Earth Retaining Walls Jan 6, 2003 Dec 29, 2014 GBSP 59 Diamond Grinding and Surface Testing Bridge Sections Dec 6, 2004 Jan 3, 2014 GBSP 60 Containment and Disposal of Non-Lead Paint Cleaning Residues GBSP 61 Slipform Parapet June 1, 2007 Dec 29, 2014 GBSP 62 Concrete Deck Beams June 13, 2008 Oct 9, 2009 GBSP 64 Segmental Concrete Block Wall Jan 7, 1999 Oct 30, 2012 51 X GBSP 65 Precast Modular Retaining Walls GBSP 67 Structural Assessment Reports for Contractor's Means and Methods Mar 6, 2009					May 7, 1997	Feb 6, 2013
GBSP 53 Structural Repair of Concrete GBSP 55 Erection of Curved Steel Structures June 1, 2007 GBSP 56 Setting Piles in Rock GBSP 57 Temporary Mechanically Stabilized Earth Retaining Walls GBSP 59 Diamond Grinding and Surface Testing Bridge Sections GBSP 60 Containment and Disposal of Non-Lead Paint Cleaning Residues GBSP 61 Slipform Parapet GBSP 62 Concrete Deck Beams GBSP 64 Segmental Concrete Block Wall STATE OF The Contractor's Means and Mar 6, 2009 Methods Mar 6, 2009 Mar 6, 2009 Mar 6, 2009 Mar 6, 2009 Mar 7, 1999 Mar 19, 2001 Mar 6, 2009					Sept 19, 2003	July 26, 2013
GBSP 55 Erection of Curved Steel Structures GBSP 56 Setting Piles in Rock GBSP 57 Temporary Mechanically Stabilized Earth Retaining Walls GBSP 59 Diamond Grinding and Surface Testing Bridge Sections GBSP 60 Containment and Disposal of Non-Lead Paint Cleaning Residues GBSP 61 Slipform Parapet GBSP 62 Concrete Deck Beams GBSP 64 Segmental Concrete Block Wall S1 X GBSP 65 Precast Modular Retaining Walls GBSP 67 Structural Assessment Reports for Contractor's Means and Methods June 1, 2007 June 1, 2007 June 13, 2008 Oct 9, 2009 Jan 7, 1999 Oct 30, 2012 Mar 6, 2009 Mar 6, 2009 Mar 19, 2001 Mar 6, 2009 Mar 6, 2009 Mar 6, 2009 Mar 6, 2009 Mar 19, 2001 Mar 6, 2009					May 17, 2000	Jan 22, 2010
GBSP 56 Setting Piles in Rock GBSP 57 Temporary Mechanically Stabilized Earth Retaining Walls GBSP 59 Diamond Grinding and Surface Testing Bridge Sections GBSP 60 Containment and Disposal of Non-Lead Paint Cleaning Residues GBSP 61 Slipform Parapet GBSP 62 Concrete Deck Beams GBSP 64 Segmental Concrete Block Wall S1 X GBSP 65 Precast Modular Retaining Walls GBSP 67 Structural Assessment Reports for Contractor's Means and Methods Nov 14, 1996 April 19, 2012 Jan 6, 2003 Dec 29, 2014 Jan 3, 2014 Nov 25, 2004 Mar 6, 2009 Nov 25, 2004 Mar 6, 2009 Structural Assessment Reports for Contractor's Means and Methods Nov 14, 1996 April 19, 2012 Jan 6, 2003 Dec 29, 2014 Jan 3, 2014 Nov 25, 2004 Mar 6, 2009 Nov 25, 2004 Nov 25, 2004 Mar 6, 2009 Nov 25, 2004 Nov					Mar 15, 2006	Aug 29, 2014
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51 X GBSP 65 Precast Modular Retaining Walls Mar 19, 2001 Dec 29, 2014 GBSP 67 Structural Assessment Reports for Contractor's Means and Methods Mar 6, 2009					June 13, 2008	Oct 9, 2009
GBSP 67 Structural Assessment Reports for Contractor's Means and Mar 6, 2009 Methods					Jan 7, 1999	Oct 30, 2012
GBSP 67 Structural Assessment Reports for Contractor's Means and Mar 6, 2009 Methods	51	Х	GBSP 65		Mar 19, 2001	Dec 29, 2014
GBSP 70 Braced Excavation Aug 9, 1995 May 18, 2011			GBSP 67	,	Mar 6, 2009	
			GBSP 70	Braced Excavation	Aug 9, 1995	May 18, 2011
GBSP 71 Aggregate Column Ground Improvement Jan 15, 2009 Oct 15, 2011			GBSP 71	Aggregate Column Ground Improvement		

GBSP 72	Bridge Deck Fly Ash or GGBF Slag Concrete Overlay	Jan 18, 2011	Dec 29, 2014
GBSP 73	Cofferdams	Oct 15, 2011	
GBSP 74	Permanent Steel Sheet Piling (LRFD)	Jan 31, 2012	Aug 17, 2012
GBSP 75	Bond Breaker for Prestressed Concrete Bulb-T Beams	April 19, 2012	
GBSP 76	Granular Backfill for Structures	April 19, 2012	Oct 30, 2012
GBSP 77	Weep Hole Drains for Abutments, Wingwalls, Retaining Walls And Culverts	April 19, 2012	Oct 22, 2013
GBSP 78	Bridge Deck Construction	Oct 22, 2013	April 18, 2014
GBSP 79	Bridge Deck Grooving (Longitudinal)	Dec 29, 2014	
GBSP 80	Fabric Reinforced Elastomeric	Aug 29, 2014	

LIST ANY ADDITIONAL SPECIAL PROVISIONS BELOW

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The following Guide Bridge Special Provisions have been incorporated into the 2012 Standard Specifications:

File	Title	Std Spec
Name		Location
GBSP22	Cleaning and Painting New Metal Structures	506
GBSP36	Surface Preparation and Painting Req. for Weathering Steel	506
GBSP50	Removal of Existing Non-composite Bridge Decks	501
GBSP58	Mechanical Splicers	508
GBSP63	Demolition Plans for Removal of Existing Structures	501
GBSP68	Piling	512
GBSP69	Freeze-Thaw Aggregates for Concrete Superstructures Poured on Grade	1004

The following Guide Bridge Special Provisions have been discontinued or have been superseded:

File	Title	Disposition:
Name		
GBSP37	Underwater Structure Excavation Protection	Replaced by GBSP73
GBSP11	Permanent Steel Sheet Piling	Replaced by GBSP74
GBSP47	High Performance Concrete Structures	Discontinued
GBSP52	Porous Granular Embankment (Special)	Replaced by GBSP76
GBSP66	Wave Equation Analysis of Piles	Discontinued

INDEX LOCAL ROADS AND STREETS SPECIAL PROVISIONS

LR # LR SD12 LR SD13 LR 107-2 LR 107-4 LR 108 LR 109 LR 212 LR 355-1	<u>Pg #</u> 58	Special Provision Title Slab Movement Detection Device Required Cold Milled Surface Texture Railroad Protective Liability Insurance for Local Lettings Insurance Combination Bids Equipment Rental Rates Shaping Roadway Bituminous Stabilized Base Course, Road Mix or Traveling	Effective Nov. 11, 1984 Nov. 1, 1987 Mar. 1, 2005 Feb. 1, 2007 Jan. 1, 1994 Jan. 1, 2012 Aug. 1, 1969	Revised Jan. 1, 2007 Jan. 1, 2007 Jan. 1, 2006 Aug. 1, 2007 Mar. 1, 2005 Jan. 1, 2002
LR 355-2 LR 400-1 LR 400-2 LR 400-3 LR 400-4 LR 400-5 LR 400-6 LR 400-7 LR 402 LR 403-1		Plant Mix Bituminous Stabilized Base Course, Plant Mix Bituminous Treated Earth Surface Bituminous Surface Plant Mix (Class B) Hot In-Place Recycling (HIR) – Surface Recycling Full-Depth Reclamation (FDR) with Emulsified Asphalt Cold In-Place Recycling (CIR) With Emulsified Asphalt Cold In Place Recycling (CIR) with Foamed Asphalt Full-Depth Reclamation (FDR) with Foamed Asphalt Salt Stabilized Surface Course Surface Profile Milling of Existing, Recycled or Reclaimed	Oct. 1, 1973 Feb. 20, 1963 Jan. 1, 2007 Jan. 1, 2008 Jan. 1, 2012 Apr. 1, 2012 Apr. 1, 2012 June 1, 2012 June 1, 2012 Feb. 20, 1963	Jan. 1, 2007 Jan. 1, 2007 Apr. 1, 2012 Jun. 1, 2012 Jun. 1, 2012 Jan. 1, 2007
LR 403-2 LR 406 LR 420 LR 442 LR 451 LR 503-1 LR 503-2 LR 542 LR 663 LR 702 LR 1000-1	59	Flexible Pavement Bituminous Hot Mix Sand Seal Coat Filling HMA Core Holes with Non-shrink Grout PCC Pavement (Special) Bituminous Patching Mixtures for Maintenance Use Crack Filling Bituminous Pavement with Fiber-Asphalt Furnishing Class SI Concrete Furnishing Class SI Concrete (Short Load) Pipe Culverts, Type (Furnished) Calcium Chloride Applied Construction and Maintenance Signs Cold In-Place Recycling (CIR) and Full Depth Reclamation (EDR) with Emulsified Asphalt Mix Design Procedures	Apr. 1, 2012 Aug. 1, 1969 Jan. 1, 2008 May 12, 1964 Jan. 1, 2004 Oct. 1, 1991 Oct. 1, 1973 Jan. 1, 1989 Sep. 1, 1964 Jun. 1, 1958 Jan. 1, 2004 Apr. 1, 2012	Jun. 1, 2012 Jan. 1, 2007 Jan. 2, 2007 Jun. 1, 2007 Jan. 1, 2007 Jan. 1, 2002 Jan. 1, 2007 Jan. 1, 2007 Jan. 1, 2007 Jun. 1, 2007 Jun. 1, 2012
LR 1000-2 LR 1004 LR 1030 LR 1032-1 LR 1102		(FDR) with Emulsified Asphalt Mix Design Procedures Cold In-Place Recycling (CIR) and Full Depth Reclamation (FDR) with Foamed Asphalt Mix Design Procedures Coarse Aggregate for Bituminous Surface Treatment Growth Curve Emulsified Asphalts Road Mix or Traveling Plan Mix Equipment	June 1, 2012 Jan. 1, 2002 Mar. 1, 2008 Jan. 1, 2007 Jan. 1, 2007	Jan. 1, 2007 Jan. 1, 2010 Feb. 7, 2008

BDE SPECIAL PROVISIONS

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

<u>File</u> Name	<u>Pg.</u>		Special Provision Title	Effective	Revised
80240			Above Grade Inlet Protection	July 1, 2000	lan 1 2012
80099		-		July 1, 2009	Jan. 1, 2012
80274		descriptoration	Accessible Pedestrian Signals (APS) Aggregate Subgrade Improvement	April 1, 2003	Jan. 1, 2014
80192			Automated Flagger Assistance Device	April 1, 2012	Jan. 1, 2013
* 80173		-	Bituminous Materials Cost Adjustments	Jan. 1, 2008	L.J. 4 004F
80241				Nov. 2, 2006	July 1, 2015
50261		-	Bridge Demolition Debris	July 1, 2009	A 9 4 0040
50481			Building Removal-Case I (Non-Friable and Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50461 50491			Building Removal Case II (Non-Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50531			Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	April 1, 2010
* 80360	60	X	Building Removal-Case IV (No Asbestos)	Sept. 1, 1990	April 1, 2010
80310	UU		Coarse Aggregate Quality Coated Galvanized Steel Conduit	July 1, 2015	l== 1 0045
80310			Coilable Nonmetallic Conduit	Jan. 1, 2013	Jan. 1, 2015
80198		-	Completion Date (via calendar days)	Aug. 1, 2014	Jan. 1, 2015
80199		-		April 1, 2008	
80293			Completion Date (via calendar days) Plus Working Days	April 1, 2008	A ===: 4 004 F
00293			Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet	April 1, 2012	April 1, 2015
80294			Concrete Box Culverts with Skews ≤ 30 Degrees Regardless of	April 1, 2012	April 1, 2014
00044			Design Fill and Skews > 30 Degrees with Design Fills > 5 Feet		
80311	C 4		Concrete End Sections for Pipe Culverts	Jan. 1, 2013	
80334	64	X	Concrete Gutter, Curb, Median, and Paved Ditch	April 1, 2014	Aug. 1, 2014
80277			Concrete Mix Design – Department Provided	Jan. 1, 2012	Jan. 1, 2014
80261	e E		Construction Air Quality – Diesel Retrofit	June 1, 2010	Nov. 1, 2014
80335	65 66	X	Contract Claims	April 1, 2014	
80029	66 77	X	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	Jan. 2, 2015
80358 80265	77 81	X	Equal Employment Opportunity	April 1, 2015	N 4 0044
* 80229	85	X	Friction Aggregate Fuel Cost Adjustment	Jan. 1, 2011	Nov. 1, 2014
80329	OU		Glare Screen	April 1, 2009	July 1, 2015
80304			Grooving for Recessed Pavement Markings	Jan. 1, 2014	A 4 2044
80246	89	X		Nov. 1, 2012	Aug. 1, 2014
80322	91	X	Hot-Mix Asphalt – Density Testing of Longitudinal Joints Hot-Mix Asphalt – Mixture Design Composition and Volumetric	Jan. 1, 2010	April 1, 2012
00322	31	^	Requirements	Nov. 1, 2013	Nov. 1, 2014
80323	101	Χ	Hot-Mix Asphalt – Mixture Design Verification and Production	Nov. 1, 2013	Nov. 1, 2014
* 80347			Hot-Mix Asphalt – Pay for Performance Using Percent Within Limits –	Nov. 1, 2014	July 1, 2015
			Jobsite Sampling	1101. 1, 2011	odiy 1, 2010
80348	105	Χ	Hot-Mix Asphalt – Prime Coat	Nov. 1, 2014	
80315			Insertion Lining of Culverts	Jan. 1, 2013	Nov. 1, 2013
80351			Light Tower	Jan. 1, 2015	
80336			Longitudinal Joint and Crack Patching	April 1, 2014	
80324	110	Χ	LRFD Pipe Culvert Burial Tables	Nov. 1, 2013	April 1, 2015
80325	130	Χ	LRFD Storm Sewer Burial Tables	Nov. 1, 2013	April 1, 2015
80045			Material Transfer Device	June 15, 1999	Aug. 1, 2014
80342			Mechanical Side Tie Bar Inserter	Aug. 1, 2014	Jan. 1, 2015
80165			Moisture Cured Urethane Paint System	Nov. 1, 2006	Jan. 1, 2010
80337			Paved Shoulder Removal	April 1, 2014	Jun 1, 2010
80349			Pavement Marking Blackout Tape	Nov. 1, 2014	
80298			Pavement Marking Tape Type IV	April 1, 2012	
80254	140	Χ	Pavement Patching	Jan. 1, 2010	
80352	141	Χ	Pavement Striping - Symbols	Jan. 1, 2015	
	Į.			-,	

File	<u>Pg.</u>		Special Provision Title	Effective	Revised
<u>Name</u>			3 		
80359			Portland Cement Concrete Bridge Deck Curing	April 1, 2015	
80353			Portland Cement Concrete Inlay or Overlay	Jan. 1, 2015	April 1, 2015
80338			Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	April 1, 2014	
80343	142	X	Precast Concrete Handhole	Aug. 1, 2014	
80300			Preformed Plastic Pavement Marking Type D - Inlaid	April 1, 2012	
80328	143	X	Progress Payments	Nov. 2, 2013	
34261			Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2006
80157			Railroad Protective Liability Insurance (5 and 10)	Jan. 1, 2006	
80306	144	X	Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS)	Nov. 1, 2012	Jan. 2, 2015
80350			Retroreflective Sheeting for Highway Signs	Nov. 1, 2014	
80327	154	Χ	Reinforcement Bars	Nov. 1, 2013	
80344			Rigid Metal Conduit	Aug. 1, 2014	
80354	156	Χ	Sidewalk, Corner, or Crosswalk Closure	Jan. 1, 2015	April 1, 2015
80340			Speed Display Trailer	April 2, 2014	,
* 80127	157	Х	Steel Cost Adjustment	April 2, 2004	July 1, 2015
80317			Surface Testing of Hot-Mix Asphalt Overlays	Jan. 1, 2013	•
* 80355			Temporary Concrete Barrier	Jan. 1, 2015	July 1, 2015
80301	161	Χ	Tracking the Use of Pesticides	Aug. 1, 2012	•
80356			Traffic Barrier Terminals Type 6 or 6B	Jan. 1, 2015	
20338	162	Χ	Training Special Provisions	Oct. 15, 1975	
80318			Traversable Pipe Grate	Jan. 1, 2013	April 1, 2014
80345			Underpass Luminaire	Aug. 1, 2014	April 1, 2015
* 80357			Urban Half Road Closure with Mountable Median	Jan. 1, 2015	July 1, 2015
80346			Waterway Obstruction Warning Luminaire	Aug. 1, 2014	April 1, 2015
80288	165	Χ	Warm Mix Asphalt	Jan. 1, 2012	Nov. 1, 2014
* 80302	167	Χ	Weekly DBE Trucking Reports	June 2, 2012	April 2, 2015
80289			Wet Reflective Thermoplastic Pavement Marking	Jan. 1, 2012	
80071			Working Days	Jan. 1, 2002	

The following special provisions are in the 2015 Supplemental Specifications and Recurring Special Provisions:

<u>File</u> Name	Special Provision Title	New Location	Effective	Revised
80292	Coarse Aggregate in Bridge Approach Slabs/Footings	Articles 1004.01(b) and 1004.02(f)	April 1, 2012	April 1, 2013
80303	Granular Materials	Articles 1003.04, 1003.04(c), and 1004.05(c)	Nov. 1, 2012	
80330	Pavement Marking for Bike Symbol	Article 780.14	Jan. 1, 2014	
80331	Payrolls and Payroll Records	Recurring CS #1 and #5	Jan. 1, 2014	
80332	Portland Cement Concrete – Curing of Abutments and Piers	Article 1020.13	Jan. 1, 2014	
80326	Portland Cement Concrete Equipment	Article 1103.03(a)(5)	Nov. 1, 2013	
80281	Quality Control/Quality Assurance of Concrete Mixtures	Recurring CS #31	Jan. 1, 2012	Jan. 1, 2014
80283	Removal and Disposal of Regulated Substances	Articles 669.01, 669.08, 669.09, 669.14, and 669.16	Jan. 1, 2012	Nov. 2, 2012
80319	Removal and Disposal of Surplus Materials	Article 202.03	Nov. 2, 2012	
80307	Seeding	Article 250.07	Nov. 1, 2012	
80339	Stabilized Subbase	Article 312.06	April 1, 2014	
80333	Traffic Control Setup and Removal Freeway/Expressway	Articles 701.18(I) and 701.19(a)	Jan. 1, 2014	

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:

- Bridge Demolition Debris
- Building Removal-Case I
- Building Removal-Case II
- Building Removal-Case III
- Building Removal-Case IV
- Completion Date
- Completion Date Plus Working Days
- DBE Participation

- Material Transfer Device
- Railroad Protective Liability Insurance
 - Training Special Provisions
- Working Days



Special Provisions

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction, Adopted <u>January 1, 2012</u>", the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways", and the "Manual of Test Procedures of Materials" in effect on the date of invitation for bids, and the "Supplemental Specifications and Recurring Special Provisions" indicated on the Check Sheet included here in, which apply to and govern the construction of <u>Section 04-00345-00-CH</u>, <u>Winnebago County</u>, and in case of conflict with any part, or parts, of said Specifications, the said Special Provisions shall take precedence and shall govern.

LOCATION OF PROJECT

The project limits are along Bell School Road from south of Lucky Lane to north of Argus Drive, and along Business US 20 (East State Street) from Sundae Drive to I-90 overpass. Adjacent side street work on Walton Street, Argus Drive, and Potawatomi Trail is included.

DESCRIPTION OF WORK

The contract work consists of widening, resurfacing, and reconstruction of Bell School Road from just south of Lucky Lane to Argus Drive in Winnebago County and widening of Business US 20 (East State Street) from Sundae Drive to Bell School Road. This work includes full depth asphalt widening and resurfacing on the south leg of Bell School Road, concrete widening on the north leg of Bell School Road, curb & gutter, storm sewer, construction of sidewalks, shared-use path and retaining walls, modifying existing traffic signals at Bell School Road and East State Street, and installation of signals at the intersection of Bell School Road & Argus Drive and Bell School Road and Walton Street. Roadway lighting is included.

TRAFFIC CONTROL AND PROTECTION. (SPECIAL)

Traffic Control shall be according to the applicable sections of the Standard Specifications for Road and Bridge Construction, the applicable guidelines contained in the National Manual on Uniform Traffic Control Devices for Streets and Highways, Illinois Supplement to the National Manual on Uniform Traffic Control Devices, these special provisions, and any special details and Highway Standards contained herein and in the plans.

Special attention is called to Articles 107.09 and 107.14 of the Standard Specifications for Road and Bridge Construction and the following Highway Standards relating to traffic control.

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Job No. C-92-118-06

Standards:

701101 701422 701426 701501 701601 701602 701606 701801 701901 720011 728001 729001

Details:

Urban Lane Inside Closure, Multilane, 2-Way, With Mountable Median (35.1)

Traffic Control for Transition Areas (38.1)

Traffic Control and Protection at Turn Bays (To Remain Open to Traffic) (94.2)

General:

Where construction activities involve sidewalks on both sides of the street, the work shall be staged so that both sidewalks are not out of service at the same time.

Signs:

No bracing shall be allowed on post-mounted signs.

Post-mounted signs shall be installed using standard 720011, 728001, 729001, on 4"x4" wood posts, or on any other "break away" connection if accepted by the FHWA and corresponding letter is provided to the resident.

All signs are required on both sides of the road when the median is greater than 10 feet and on one way roadways.

The "WORKERS" (W21-1a(O)-48) signs shall be replaced with symbol "Right or Left Lane Closed Ahead" (W4-2R or L(O)-48) signs on multilane roadways.

"BUMP" (W8-1(O)48) signs shall be installed as directed by the Engineer.

"UNEVEN LANES" W8-11(O)48 signs shall be installed at 1 mile intervals or as directed by the Engineer.

"LOW SHOULDER" W8-9(O)48 signs shall be installed at 1 mile intervals or as directed by the Engineer.

When covering existing Department signs, no tape shall be used on the reflective portion of the sign. Contact the District sign shop for covering techniques.

All regulatory signs shall be maintained at a 5 foot minimum bottom (rural), 7 foot minimum (urban).

Plate altering signs shall have the same sheeting as the base sign.

No more than one (1) plate shall be used to alter a sign.

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FAU 5149 (Bell School Road) Project No. M-5099 (112)

Section No. 04-00345-00-CH Winnebago County

> Contract No. 85616 Job No. C-92-118-06

Any post stubs without a sign in place and visible shall have a reflector placed on each post.

Devices:

A minimum of 3 drums spaced at 4 feet shall be placed at each return when the side road is open.

On all standards, the device spacing shall be revised to the following dimensions:

Where the spacing shown on the standard is 25 feet, the devices shall be placed at 20 feet.

Where the spacing shown on the standard is 50 feet, the devices shall be placed at 40 feet.

Where the spacing shown on the standard is 100 feet, the devices shall be placed at 80 feet.

Direction Indicator Barricades shall exclusively be used in lane closure tapers. The back of the direction indicator barricades shall be a type II barricade when within 12 feet of opposing traffic.

Vertical barricades shall not be used in weaves, and in the gore areas on Highway Standard 701411 or District Standard 94.2.

Vertical barricades shall not be used as a device where the existing speed limit is 65 mph.

The tapers shall be continuous. The taper shall not be broken for a turn lane, intersection or large commercial entrance.

Lights:

Steady burn mono-directional lights are required on devices delineating a widening trench.

Flaggers:

Flagger at Sideroads and Commercial Entrances:

Effective: April 9, 2015

Flaggers shall comply with all requirements contained in the Department's "Flagger Handbook" dated September 2011. The flagger equipment listed for flaggers employed by the Illinois Department of Transportation shall apply to all flaggers.

All workers and flaggers shall wear ANSI Class E pants and an ANSI Class 2 vest that in combination meet the requirements of ANSI/ISEA 107 2004 for Conspicuity Class 3 garments during hours of darkness..

In addition to the flaggers shown on applicable standards, on major sideroads flaggers shall be required on all legs of the intersection. Major sideroads for this project are: Walton Street and Argus Drive/Potawatomi Trail.

Flaggers for Muti-Use Path and sidewalks:

Work will impact pedestrian routes within the project limits where no reasonable alternate route exists to divert pedestrians. Therefore, the contractor shall provide a flagger or other person to assist with pedestrian movements through the construction work zone. During working hours, the contractor shall designate a person each work day responsible for assisting pedestrians through and around the work area. This person shall be capable of stopping their work duties immediately in order to assist and escort pedestrians as required through or around the work zone. This person shall be known to the Engineer. This person shall be distinguishable from other personnel on the job site. This shall be accomplished by wearing an ANSI Class 2 garment that is a different color from the rest of the personnel on-site, but still meeting the color requirements in Article 701.12 of the Standard Specifications. Pedestrian access shall be maintained at all times. Where the distance through the construction zone exceeds 200 feet, a second flagger shall be designated to assist pedestrians.

During non-working hours, the work area shall be graded, level, accessible, and free from hazards. Temporary ramps shall be placed as necessary at each end of the removed sidewalk and at the crossing meeting, the slope requirements of a permanent ramp and sidewalk. It shall be open to pedestrians. Aggregate will be allowed as a temporary sidewalk surface for a maximum of 25 days.

When the mainline flagger is within 200 feet of an intersection, the side road flagger shall be required.

When the road is closed to through traffic and it is necessary to provide access for local traffic, all flaggers as shown on the applicable standards will be required. No reduction in the number of flaggers shall be allowed.

Revise the first and second paragraph of Article 701.20(i) of the Standard Specifications to read: "Signs, barricades, or other traffic control devices required by the Engineer, over and above those shown on the standard or detailed in the plans and provisions, will be paid for according to Article 109.04. All flaggers required at side roads and commercial entrances remaining open to traffic shown on the Highway Standards, required by article 701.13(a) or listed above, shall be included in the cost of specified Traffic Control Standards."

Pavement Marking:

All temporary pavement markings that will be operational during the winter months (December

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through March) shall be paint.

Temporary pavement markings shall be paid for separately at the contract unit prices of specified temporary pavement marking items.

Highway Standards Application.

Traffic Control and Protection Standard 701701: This work shall be done according to Section 701 of the Standard Specifications and the Typical Application of Traffic Control Devices for Highway Construction, Standard 701701, and as specified herein.

The "left" leg of the intersection shown on this standard also applies when the right turn lane is closed. When the right turn lane is closed, "RIGHT TURN LANE CLOSED AHEAD" shall be substituted for the LEFT TURN LANE CLOSED AHEAD" and the set up would be a mirror image to what is shown. This work shall be included in the contract unit price per Lump Sum for TRAFFIC CONTROL AND PROTECTION (BELL SCHOOL or U.S. BUSINESS 20).

Traffic Control and Protection, Standard 701801: This work shall be done according to Standard 701801, the Maintenance of Traffic staging plans, and Section 701 of the Standard Specifications. Standard 701801 shall be applied to close the partially completed sidewalk/bicycle path when it is yet to be opened to pedestrian and bicycle traffic. This work shall be included in the contract unit price per Lump Sum for TRAFFIC CONTROL AND PROTECTION (BELL SCHOOL or U.S. BUSINESS 20).

District Standards Application.

Traffic Control for Road Closure: This work shall be done according to the Road Closure Standard and Section 701501 of the Standard Specifications for Colosseum Drive.

"ROAD CLOSED AHEAD" (W20-3(O)-48) with flasher and the appropriate arrow plate (W1-6(O)-36x18 or W1-7(O)-36x18) shall be required on all side roads within the limits of the mainline "ROAD CLOSED AHEAD" signs.

This work shall be included in the contract unit price per Lump Sum for TRAFFIC CONTROL PLAN AND PROTECTION (SPECIAL).

Other Devices.

Temporary Signals: The Contractor will be required to have someone available at all times to receive phone calls during non-work hours and who is able to reach the job site within one hour of being called. This person will be able to repair the temporary signals or will be able to have flaggers on site within another hour to flag traffic until the signals are again in operation. Failure to have a person on site within an hour after the initial call out will result in the Contractor being charged liquidated damages by the Department of One Thousand Dollars (\$1,000). Failure to have traffic restored either with repaired signals or with flaggers within two hours after the initial call out

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will result in the Contractor being charged liquidated damages by the Department of One Thousand Dollars (\$1,000) per hour until traffic is restored. The Contractor may use a traffic control subcontractor for the first call, however this does not relieve the prime Contractor from having a person on call.

<u>Traffic Signal Work:</u> No traffic signal work shall begin until all of the traffic signal hardware is on the job site. The existing traffic signal system shall remain in operation during the modernization work. The work shall be scheduled so that a minimum of two signal indications for each phase remains in operation. No signal indication shall be absent for more than seven calendar days. The Contractor will be allowed to shut down the existing signal system not to exceed 8 hours to replace the existing controller and cabinet. During this shutdown, the intersection will operate as a 4-way "Stop".

<u>Maintenance of Traffic:</u> The Contractor shall be required to notify the Winnebago County Highway Department, the City of Rockford, emergency response agencies (i.e.: fire, ambulance, police), school bus companies and the Department of Transportation (Bureau of Project Implementation) regarding any changes in traffic control.

Maintenance of traffic will be done over 4 stages. The first stage is widening of Bell-School along the east edge of pavement. Traffic will be transitioned to the existing pavement along the west edge of the roadway. Stage 2 will be the west side of Bell School Road, the pavement installation on U.S. Business 20, Walton Street, and Argus Drive. Stage 3 includes median work on Bell School and the completion of Walton Street east of Bell School. Stage 4 is the remaining median work on Bell School.

The Contractor shall be required to notify the Winnebago County Highway Department, the City of Rockford, the Rockford Mass Transit District, and the United States Parcel Service in advance of all road closures and openings. These parties shall also be notified when each roadway is reopened.

The Contractor shall be responsible for providing a weekly article and map to the news media describing work being performed and stages closed to traffic. News media shall be WREX 13 Rockford, WTVO 17 of Rockford, WIFR 23 Rockford and WQRF FOX 39 Rockford.

Placing and removing pavement marking shall be completed using Traffic Control and Protection Standard 701427 or 701701.

This work shall also consist of furnishing, installing and maintaining all signs, signals, markings, barricades, warning lights, and other devices which are to be used to regulate, warn or guide traffic during construction of this improvement. This work shall cover all stages of construction and any advance stages or supplemental traffic control work, unless specifically listed as a separate pay item. All work shall be in conformance with the current edition of the Illinois Department of Transportation's Manual on Uniform Traffic Control Devices for Street and Highways and standards. Contractor shall follow all applicable standards and the additional requirements set forth in the Special Provision for Traffic Control Plan above.

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The Contractor will be required to furnish all traffic control devices necessary for the convenience and protection of vehicular and pedestrian traffic. Whenever the operation of the Contractor endangers or interferes with vehicular traffic or pedestrians, as determined by the Engineer, the Contractor shall furnish any additional traffic control devices necessary to direct and protect his workmen at no extra cost to satisfy the requirements of the Engineer. The Contractor will be required to furnish the necessary flaggers as specified in the Plans or required by the Engineer on a continuous basis whenever construction operations are in progress.

The Contractor will be responsible for the proper location, installation and arrangement of all traffic control devices furnished by him. Whenever operations indicate that relocation of a proposed or existing traffic control device is advisable, as determined by the Engineer, the Contractor shall remove, relocate and reinstall the device in question.

The basic layout for traffic control devices will be in accordance with State of Illinois Department of Transportation Highway Standards and general guidance as indicated in the Plans and Standard Specifications.

The Contractor will be responsible for the maintenance of all traffic control devices installed by him as designated in the Plans and Specifications or as required by the Engineer. The Contractor will provide surveillance of all barricades, barrels, warning signs and lights which he has installed on a 24-hour a day basis for each day of this contract. In the event of severe weather conditions, the Contractor shall be required to furnish any additional personnel required to maintain all traffic control devices as required by the Engineer. Surveillance shall mean checking control devices periodically, but not less than once every 12 hours, unless there is a drop off adjacent to motorist traffic, then surveillance shall take place not less than once every 4 hours.

The Contractor will be required to remove all traffic control devices which were furnished, installed or maintained by him under this contract and such devices shall remain the property of the Contractor upon said removal. All traffic control devices must remain in place until specific authorization for removal is received from the Engineer.

This work will be paid for at the contract unit price per LUMP SUM for <u>TRAFFIC CONTROL AND PROTECTION</u>, (<u>SPECIAL</u>) which price shall be payment in full for all labor, materials, transportation, handling and incidental work necessary to furnish, install, maintain and remove all traffic control devices as indicated on the Plans or in these Specifications, and as directed by the Engineer.

MAINTENANCE OF TRAFFIC

The contractor shall provide traffic control for the convenience and protection of vehicular and pedestrian traffic. The presence of temporary traffic control drawings or standards in the plans does not relieve the Contractor of his obligation to provide protection to the public in accordance with Article 107.14 of the Standard Specifications. This Article stipulates that the Contractor shall provide, to the

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satisfaction of the Engineer, all protection deemed necessary beyond that shown in the plans or Special Provisions. Access to commercial or private driveways shall be maintained at all times for required access of private or commercial delivery vehicles. Where businesses have two driveways, the Contractor shall be allowed to coordinate with the adjacent property owner for a full closure of individual driveways so long as reasonable access is maintained in order to minimize overall down time.

COMPLETION DATE PLUS WORKING DAYS

Effective: September 30, 1985 Revised: January 1, 2007

Revise Article 108.05 (b) of the Standard Specifications as follows:

The Contractor shall perform his work in such a manner that the project is complete and open to full traffic on or before 11:59 pm on August 15, 2016. The contractor will be allowed 20 working days after August 15, 2016 to complete punch list items, clean-up, and other seasonal items.

Interim Completion Dates will be required for this contract.

The Contractor shall perform his work in such a manner that Stage 1 of the project, as indicated on the suggested Traffic Control plan, is complete by November 15, 2015. Completion of this phase represents the project condition for the winter shut down. Construction signage should be kept to the minimum over the winter season. Pedestrian routes along U.S. Business 20 are included in the Stage 1 work. Stage 1 shall be complete and open to traffic on or before 11:59 pm on November 15, 2015. Pavement marking shall be applied so that it will last throughout the winter season. Work on subsequent stages will not be allowed without consent of the Engineer. The multi-use path on Bell School Road shall be (a) reconstructed as part of phase 1, or (b) deferred to Spring 2016. The path, once started, must be completed and a hard surface must be installed for the path to be open over the winter season.

Failure to comply with the <u>Interim Completion Date</u> will be subject to the provisions of Article 108.09 of the Standard Specifications. The daily charge will begin at 12:01 AM on November 16, 2015 and will continue for every calendar day that the phase is incomplete and winter shutdown is delayed.

Failure to complete the project by the completion date will be subject to the provisions of Article 108.09 of the Standard Specifications. The daily charge will begin at 12:01 AM on August 16, 2016 and will continue for every calendar day that the street or entrance is not open to traffic

ROCK FILL

This work shall consist of placing Breaker-Run Crushed Stone at locations as directed by the engineer to replace void areas created by removal of unsuitable material. The Breaker-Run Rock layer shall be constructed of top size 6 inch, with 70% to 90% by weight, passing through the 4 inch sieve and 15% to 40% by weight, passing through the 2 inch sieve. The Breaker-Run Rock shall be

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reasonably uniformly graded from coarse to fine, and shall be taken from a quarry ledge capable of producing Class "D" quality aggregate. The Breaker Run Crushed Stone shall be capped with 6 inch of CA 6 or CA 10. The 6 inch cap will be included and paid for as ROCK FILL.

For this project, 10% of the total pavement area, to a depth of 18", has been included as a contingency quantity. Actual locations will be measured in the field.

This work shall be paid for at the contract unit price per CUBIC YARD of ROCK FILL.

CONCRETE TRUCK WASHOUT

This work shall conform to applicable portions of Section 280 of the Standard Specifications and the requirements of the Illinois EPA NPDES permit. Contractor shall employ the use of concrete washouts throughout the project and shall require his workers, subcontractors, and suppliers to utilize the designated washout areas for proper removal of concrete and cement materials. Contractor shall maintain washouts throughout the duration of construction so long as required. Failure to utilize concrete washout areas will result in violation of EPA requirements and Contractor could be subjected to fines and penalties through the Illinois Attorney General's office.

This work shall be paid for at the contract LUMP SUM price for <u>CONCRETE TRUCK WASHOUT</u>, which shall include routine maintenance of washout areas and proper disposal when full or no longer needed.

PAVEMENT REMOVAL DRIVEWAY PAVEMENT REMOVAL

This work shall be performed in accordance with Section 440 of the Standard Specifications. Pavement types are documented on the plans. HMA pavement removal and HMA driveway pavement removal shall include the necessary amount of underlying stone or subgrade (earth) removal needed to construct the proposed line and grade of the new pavement. Unless documented on the plans, any stone or earth excavation beneath the pavement or driveway surface will be considered incidental to this item at these locations.

This work will be paid for at the contract unit price per SQUARE YARD for <u>PAVEMENT REMOVAL</u>, or DRIVEWAY PAVEMENT REMOVAL.

CONCRETE WINGWALL REMOVAL

This work shall be performed in accordance with Section 501 of the Standard Specifications and shall consist of all materials and workmanship needed to disconnect precast wing walls from the end of the existing 6.5' x 5.5' box culvert at Rt. Sta. 662+40 Business US 20 (East State Street) and completely remove from project site. Contractor shall be careful not to undermine the existing culvert to remain and to leave area in general condition ready for construction of new retaining wall.

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This work will be paid for at the contract unit price per EACH for CONCRETE WINGWALL REMOVAL.

BIKE PATH REMOVAL

This work shall be performed in accordance with Section 440 of the Standard Specifications and consists of removal of the existing HMA bike path surface in order to install new surface at proposed line and grade. In locations where path alignment is shifting or being lowered, this pay item will also include the underlying stone base to a depth of 8" minimum. In locations where the path is being elevated, the existing base can remain and will be supplemented with new base during construction. Contractor is to note that pedestrian access is to be maintained throughout the duration of the project, so any excavated areas must be restored with new base course in the same working day.

This work will be paid for at the contract unit price per SQUARE YARD for BIKE PATH REMOVAL.

REMOVE EXISTING FLARED END SECTION

This work shall consist of the removal of a flared end section, or other precast pipe culvert end section, according to Section 551 of the Specifications, at locations shown on the plans. Any backfill required to restore the location to proposed line and grade shall be included in this item.

This work shall be paid for at the contract unit price per EACH for <u>REMOVE EXISTING FLARED END SECTIONS.</u>

CONCRETE MEDIAN SURFACE REMOVAL

This work shall be in accordance with Section 440 of the Standard Specifications and shall consist of removing concrete median surface at locations identified on the plans. Median surface will typically be 4" thick, but any variations on this thickness will be considered incidental to the removal cost. Removal shall be to the line and grade of proposed subgrade and any additional earth excavation will be considered incidental to this work.

All work and materials required to complete the work listed above shall be included in the contract unit cost per SQUARE FOOT for <u>CONCRETE MEDIAN SURFACE REMOVAL</u>.

RETAINING WALL REMOVAL

This work shall be performed in accordance with applicable portions of Sections 202 and 501 of the Standard Specifications and shall consist of removal and disposal offsite of a modular block retaining wall located in front of the Burger King property near Rt. Sta. 310+10 Bell School Road. The block wall appears to be decorative in nature and not structural. Any salvage value gained by the contractor for the removed materials shall be reflected in his bid price.

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This work will be paid for at the contract unit price per FOOT for RETAINING WALL REMOVAL.

HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL

This work shall be performed in accordance with Section 440 of the Standard Specifications and consists of partial milling of existing HMA pavement in preparation for a new overlay. Removal depth will vary from 0" to 1.5" maximum at existing curb. Contractor shall take care not to damage existing curb and gutter to remain. Adjacent curb and gutter damaged due to the contractor's negligence during this operation will be removed and replaced by the contractor at his own expense.

This work will be paid for at the contract unit price per SQUARE YARD for <u>HMA SURFACE REMOVAL</u>, <u>SPECIAL</u>.

SIGN TO BE RELOCATED

This item covers the removal and relocation of the existing monument sign at Red Roof Inn, Lt. Sta. 311+50 Bell School Road. The sign is installed on public right of way in conflict with the proposed improvements. Work included in this pay item includes removal and salvage existing monument sign, removal of sign foundation, installation of new foundation off of public right of way at same station but directly due west on private property, reconnection of existing conduit and lighting, installation of new sign so that the relocated sign is fully functional at the new location as determined by Red Roof Inn. Contractor will be responsible for determining his own foundation requirements and any bolt pattern shall be matched. The sign consists of a large panel anchored by wood posts. A foundation might be present.

This work shall be paid for at the contract unit price per EACH for SIGN RELOCATION (SPECIAL).

RELOCATE EXISTING MAILBOX PROTECT EXISTING MAILBOX

These items shall follow the requirements of Standard Specifications Section 107.20.

REMOVE AND RESET ORNAMENTAL FENCE

This item covers the relocation of existing ornamental fence the portion of Walton Street that is closest to U.S. Business 20. The relocation of the existing fence includes moving the westerly six sections of the fence from the west side of the double gate to the western end of the fence to a location which allows for the construction of the shared use path. Include the removal and installation of fence post concrete foundations in the cost of relocating the existing fence. Turf restoration shall be included in the cost of relocating the fence. The double gate east of the fence relocation provides emergency access from Walton Street onto U.S. Business 20 over a grass-crete pavement. Removal and replacement of the grass-crete pavement for the installation of the shared use path shall be incidental

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to the shared use path.

This work shall be paid for at the contract unit price per FOOT for <u>REMOVE AND RESET</u> ORNAMENTAL FENCE.

TEMPORARY PAVEMENT

This work shall consist of placing a temporary Hot-Mix Asphalt Surface Course and aggregate base to serve as a temporary widening or a runaround at the locations shown on the plans. The pavement will consist of the following:

This work shall consist of placing and compacting up to 10 inches of Aggregate Base Course, Type B and constructing 2 inches of Hot-Mix Asphalt Surface Course to serve as a temporary pavement to facilitate the suggested staging.

<u>Description</u>: This work shall consist of designing, producing and constructing a HMA Surface Course on a prepared base, according to Sections 311, 406, 1030 and 1102 of the 2012 Standard Specifications, except as follows.

Materials: Surface Mixture 9.5 or 12.5, Mix C, N50 shall be used.

The contractor shall be responsible for maintenance of this pavement during the time it is in use and shall patch and repair the pavement at no additional charge.

All work and materials required to complete the work listed above shall be included in the contract unit cost per SQUARE YARD for <u>TEMPORARY PAVEMENT</u>. Removal shall be paid for separately.

INCIDENTAL HOT-MIX ASPHALT SURFACING (SPECIAL)

This work shall consist of placing a temporary Hot-Mix Asphalt Surface Course and aggregate base to serve as a temporary wedge along the edge of pavement during the Stage 2 Traffic Control and Staging Plan on Bell School Road south of U.S. Business 20:

This work shall consist of placing and compacting 2 inches of Hot-Mix Asphalt Surface Course to serve as a temporary pavement to facilitate the suggested staging.

<u>Description</u>: This work shall consist of designing, producing and constructing a HMA Surface Course on a prepared base, according to Sections 311, 406, 1030 and 1102 of the 2012 Standard Specifications, except as follows.

Materials: Surface Mixture 9.5 or 12.5, Mix C, N50 shall be used.

The contractor shall be responsible for maintenance of this pavement during the time it is in use and

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shall patch and repair the pavement at no additional charge.

All work and materials required to complete the work listed above shall be included in the contract unit cost per TON for INCIDENTAL HOT-MIX ASPHALT SURFACING (SPECIAL). Removal shall be paid for separately.

TEMPORARY PAVEMENT REMOVAL

This work shall be in accordance with Section 440 of the Standard Specifications and shall consist of removing the previously installed temporary Hot-Mix Asphalt Surface Course and or aggregate base once construction staging allows for traffic to be shifted outside of these areas. Removal shall be to the line and grade of proposed subgrade and any additional earth excavation will be considered incidental to this work.

All work and materials required to complete the work listed above shall be included in the contract unit cost per SQUARE YARD for <u>TEMPORARY PAVEMENT REMOVAL</u>.

FIRE HYDRANTS TO BE MOVED (SPECIAL) FIRE HYDRANTS TO BE ADJUSTED WATER VALVE TO BE ADJUSTED

This work shall be in accordance with Section 564 of the Standard Specifications and the requirements of the City of Rockford Water Division requirements and associated standards. Where shown on the plans, the existing fire hydrant assembly and the associated valve, valve box or vault, and hydrant line shall be excavated and salvaged. Contractor shall furnish and supply the necessary pipe materials and fittings needed to install the hydrant assembly at its new location or to adjust the vertical elevation of the hydrant assembly or valve to a new grade.

All pipe and fittings from the existing point of connection to the new valve and hydrant, along with associated trench backfill, shall be included in this pay item.

Inspection of Existing:

Contractor shall coordinate with City of Rockford Water Superintendent, to jointly inspect the condition of the existing fire hydrant. If the City decides that the fire hydrant needs to be replaced, the City shall supply a new fire hydrant and associated assembly components. The City will NOT supply any other fittings that would ordinarily be required by the contractor to perform his relocation work.

The work will be paid for at the Contract Unit Price EACH for <u>FIRE HYDRANTS TO BE MOVED</u>, <u>FIRE HYDRANT TO BE ADJUSTED</u>, or <u>WATER VALVE TO BE ADJUSTED</u>, complete including relocating or adjusting to new grades the existing fire hydrant, auxiliary valve, and valve box, or removing existing hydrant equipment and reinstalling the same equipment at the new location. Water main removal and fittings shall be included with this work.

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SANITARY MANHOLES TO BE RECONSTRUCTED SANITARY MANHOLES TO BE ADJUSTED

This work shall consist of reconstructing existing sanitary sewer manholes, as required, and shall conform to Section 602 of the IDOT Standard Specifications for Road and Bridge Construction and RRWRD requirements. Manhole reconstruction or adjustment shall include the removal of the existing casting, adjusting rings, cones and barrel sections, and installation of new pre-cast barrel and cone sections, adjusting rings and castings, including RRWRD approved external joint seals, as needed to raise or lower the sanitary manhole to the required rim elevation.

Unless otherwise specified or shown, manhole frames shall be set at one inch (1") above finish grade in turf areas and at finish grade in paved areas. Concrete adjusting rings shall be standard reinforced concrete pipe pattern. Minimum ring thickness shall be two inches (2"). Maximum ring thickness shall be twelve inches (12"). ASTM requirements for adjusting rings: conform to ASTM C478 and ASTM C139, latest revision. Concrete for adjusting rings: Class "A" as specified in T.S.

5:3 (a). Concrete in the most current edition of the RRWRD's *General Provisions and Technical Specifications for Sanitary Sewer Construction*; manufacturer to supply certified test results showing compliance with concrete strength requirements. Absorption requirements: ACI Specification P-I-C and ASTM C139, latest revision.

All adjusting ring joints shall be sealed watertight by means of EZ Stik, Kent-Seal, or equal (including cast iron frame to concrete adjusting ring). Minimum adjusting ring placement height: four inches (4"). Maximum adjusting ring placement height: twelve inches (12"); no more than thirty inches (30") from the top of casting to the first step. A maximum of one (1) 2" adjusting ring will be allowed. Joint between adjusting rings and casting shall be water-tight by means of a butyl material seal (E-Z Stik, Kent-Seal, or equal). No adjusting rings are required for manholes in turf areas or with roadway having curb and gutter.

In roadways only: metal or plastic shims will be required only if the casting in the roadway must be pitched to accommodate roadway pavement. Shims must be equally spaced with no more than one inch (1") of total adjustment. No butyl materials seal (E-Z Stik, Kent-Seal, or equal) will be used under the casting and the void area between the casting, and masonry shall be grouted from the outside to the inside face of the adjusting ring, with the entire void to be filled. No trench compaction shall take place until the concrete has cured and hardened to the RRWRD's satisfaction. Final manhole adjustment shall meet I.D.O.T. requirements (concrete collar around casting and adjusting rings).

If the existing manhole does not have a standard Neenah R-1670 casting, or if the casting is in poor condition, the District's Supporting Services Department should be contacted prior to adjusting the manhole for a replacement casting. It shall be the Contractor's responsibility to bring the old casting to the District and pick up a new casting. The contractor shall be responsible for coordination with RRWRD relating to all other work and requirements associated with this item. Trench backfill shall be incidental to this item.

The Contractor shall install a RRWRD-approved external casting seal on all reconstructed manholes as indicated within the RRWRD standards. The Contractor shall install external seals

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on all manhole barrel section joints, Cretex Mac Wrap or CANUSA Wrapid Seal.

All reconstructed manholes shall be vacuum tested per ASTM C124493 Standard Test Method For Concrete Sewer Manholes By The Negative Pressure (Vacuum) Test.

Contractor shall independently arrange for inspection services with RRWRD. No work on the sanitary sewer system is allowed without the presence of an RRWRD inspector.

<u>Payment:</u> Payment shall be made on the basis of the unit price per EACH for <u>SANITARY MANHOLES</u> <u>TO BE RECONSTRUCTED</u>, and <u>SANITARY MANHOLES TO BE ADJUSTED</u>, complete in place.

PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE PROPOSED STORM SEWER CONNECTION TO EXISTING STORM SEWER

This work shall conform to Section 550 of the Standard Specifications and shall include all workmanship and materials needed to connect new storm sewers to existing systems within the project limits, including modification of existing structure, concrete collar or other masonry seals if needed.

This work shall be paid for at the contract unit price per EACH for the <u>PROPOSED STORM SEWER</u> <u>CONNECTION TO EXISTING MANHOLE or PROPOSED STORM SEWER CONNECTION TO EXISTING STORM SEWER.</u>

CONCRETE MEDIAN, TYPE SB-6.18 (MODIFIED)

This work shall conform to Section 606.09 of the Standard Specifications and shall include all workmanship and materials needed to connect concrete median nose Type SB-6.18 on Bell School road north of Argus Drive.

This work shall be paid for at the contract unit price per SQUARE FOOT for the CONCRETE MEDIAN, TYPE SB-6.18 (MODIFIED).

SPECIAL STRUCTURE, SP-1

This work shall conform to Section 602 of the Standard Specifications and the details shown in the plans. This item shall include the construction of the structure specified at Rt. Sta. 659+74, Business US 20 (East State Street) in order to connect a new 24" RCP storm sewer to two extended CMP culvert pipes. An equivalent round manhole would be too large and encroach on existing water main.

This work shall be paid for at the contract unit price per EACH for SPECIAL STRUCTURE, SP-1.

DOUBLE INLETS, SPECIAL INLET, SPECIAL

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INLETS, SPECIAL NO. 3 INLETS, SPECIAL NO. 5 INLETS, SPECIAL NO. 6

This work shall conform to Section 602 of the Standard Specifications and the details shown in the plans or IDOT District 2 detail sheets include in the project manual. Note that Inlet 700 and Inlet Special No. 1 are designated structures typical of the Rockford area. Refer to details. Inlet Special 5 and 6 are common to District 2 standards. This item shall include the cost of furnishing the frame, lid, reinforcement bars, floor, walls, top of slab, labor, and other necessary items to construct the inlets or manholes as specified.

This work shall be paid for at the contract unit price per EACH for the manholes or inlets specified.

INLETS, SPECIAL NO. 1 INLETS, SPECIAL NO. 2

This work shall conform to Section 602 of the Standard Specifications and the details shown in the plans and shall include the cost of installing a new structure over existing storm sewer. The contractor, at his option, can elect to install a slab and doghouse structure over existing storm sewer, and then remove the section of pipe within the interior of the structure to at least the mid-point of the pipe (with interior to be filled with concrete up to a level that the pipe remains to prevent standing water and debris). Or the contractor can elect to remove segments of pipe, install a full and complete structure, and then reconnect to the existing storm sewers on each end of the structure. This item shall include the cost of furnishing the frame, lid, reinforcement bars, floor, walls, top of slab, concrete collars, labor, and other necessary items to construct the inlets to the intent of the plans.

This work shall be paid for at the contract unit price per EACH for <u>INLETS</u>, <u>SPECIAL NO. 1 OR 2</u>, regardless of the method of installation chosen by the contractor.

CONDUIT SPLICE

This work shall conform to applicable portions of Section 810 of the Standard Specifications and shall consist of connecting new conduits to existing conduits to remain. The contractor, at the splice location, shall make a clean cut in the existing conduit, provide the necessary splicing sleeves or unions, and complete the splice by affixing a water proof tape or other sealer around the splice location. It is not necessary that new conduits match the material type of the existing conduit, so long as the completed union will not be subjected to corrosion due to material types and any wires can be pulled unobstructed through the splice location. The pulling and reinstallation of any wires required to perform this work shall be considered incidental to each splice.

This work shall be paid for at the contract unit price per EACH for CONDUIT SPLICE.

HANDHOLE TO BE ADJUSTED

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This work shall conform to applicable portions of Section 814 of the Standard Specifications and shall consist of adjusting the finish grade of the existing handhole to the proposed grade due to the pavement modifications on U.S. Business 20. The adjustment shall follow the details in the standard drawings 814001 or 814006. The existing frame and cover can be reused.

This work shall be paid for at the contract unit price per EACH for HANDHOLE TO BE ADJUSTED.

HANDHOLE TO BE RECONSTRUCTED DOUBLE HANDHOLE TO BE RECONSTRUCTED

This work shall conform to applicable portions of Section 814 of the Standard Specifications and shall consist of reconstructing the existing handholes to the proposed grade due to the construction of the 5' PCC sidewalk or the 10' shared use path on the south side of U.S. Business 20. The reconstruction shall follow the details in the standard drawings 814001 or 814006. The reconstruction includes the removal and reinstallation of the conduit entering and exiting the handholes for a distance of at least 40 feet to allow for a long sweep transition of the conduits to the new, higher finished grade elevation. The existing frame and covers can be reused at both locations.

This work shall be paid for at the contract unit price per EACH for <u>HANDHOLE TO RECONSTRUCTED</u> or <u>DOUBLE HANDHOLE TO BE RECONSTRUCTED</u>.

CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER

This work shall consist of constructing concrete foundations for mast arm poles at the locations shown in the plans and as detailed on Highway Standard 878001, according to Section 878 of the "Standard Specifications for Road and Bridge Construction".

Depths shown in the plans are approximated and shall be used for estimating purposes only. The Contractor will hire a geotechnical testing firm to confirm that the soil strength meets or exceeds the 1.0 TSF requirement listed in the Highway Standard. Results of the test shall be provided to the Engineer prior to the installation of any foundations. If soil strength is found to be lacking, the testing service, at the contractor's expense, shall provide a recommended depth to provide adequate support.

<u>Basis of Payment</u>. This work will be paid for at the contract unit price per FOOT of depth for <u>CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER</u>, and all testing services will be incidental to this item.

CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER

This work shall consist of constructing concrete foundations for mast arm poles at the locations shown in the plans and as detailed on Highway Standard 878001, according to Section 878 of the "Standard Specifications for Road and Bridge Construction".

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Depths shown in the plans are approximated and shall be used for estimating purposes only. The Contractor will hire a geotechnical testing firm to confirm that the soil strength meets or exceeds the 1.0 TSF requirement listed in the Highway Standard. Results of the test shall be provided to the Engineer prior to the installation of any foundations. If soil strength is found to be lacking, the testing service, at the contractor's expense, shall provide a recommended depth to provide adequate support.

<u>Basis of Payment</u>. This work will be paid for at the contract unit price per FOOT of depth for <u>CONCRETE FOUNDATION</u>, <u>TYPE E 36-INCH DIAMETER</u>, and all testing services will be incidental to this item.

CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER

This work shall consist of constructing concrete foundations for mast arm poles at the locations shown in the plans and as detailed on Highway Standard 878001, according to Section 878 of the "Standard Specifications for Road and Bridge Construction".

Depths shown in the plans are approximated and shall be used for estimating purposes only. The Contractor will hire a geotechnical testing firm to confirm that the soil strength meets or exceeds the 1.0 TSF requirement listed in the Highway Standard. Results of the test shall be provided to the Engineer prior to the installation of any foundations. If soil strength is found to be lacking, the testing service, at the contractor's expense, shall provide a recommended depth to provide adequate support.

<u>Basis of Payment</u>. This work will be paid for at the contract unit price per FOOT of depth for <u>CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER</u>, and all testing services will be incidental to this item.

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

This work consists of removing the existing traffic signals and appurtenances as shown on the plans at the intersection of Bell School Road and Business US 20 (E State Street). This work shall be done according to Section 895 of the "Standard Specifications for Road and Bridge Construction".

The existing traffic signal installation shall remain in operation until the temporary traffic signal installation is ready for operation. Upon approval of the Engineer, the Contractor shall remove the traffic signal equipment as indicated on the plan sheets.

Modify the following from Articles 895.07 and 895.08 of the Standard Specifications: Electric Cable to be removed shall not be measured or paid for separately but shall be considered incidental to this pay item. Any electric cables to be removed shall become property of the Contractor.

All equipment shall be salvaged by the Contractor for the City of Rockford. Accumulate salvaged equipment in a single location and notify the City's Electrical Maintenance Contractor so that the equipment can be picked up for the City. The Contractor shall provide 5 copies of a list of equipment

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that is to remain the property of the City, including model and serial numbers, where applicable. He shall also provide a copy of the Contract plan or special provision showing the quantities and type of equipment. Controllers and peripheral equipment from the same location shall be boxed together (equipment from different locations may not be mixed) and all boxes and controller cabinets shall be clearly marked or labeled with the location from which they were removed. If equipment is not returned with these requirements, it will be rejected by the City's Electrical Maintenance Contractor. The Contractor shall be responsible for the condition of the traffic signal equipment from the time he takes maintenance of the signal installation until the acceptance of a receipt drawn by the City's Electrical Maintenance Contractor indicating the items have been picked up in good condition.

The Contractor shall safely store and arrange for pick-up of all equipment to be returned to agencies other than the City. The Contractor shall package the equipment and provide all necessary documentation as stated above.

The following equipment shall be salvaged to the City of Rockford:

- 3 Posts as indicated on the traffic signal plan sheets
- 4 Mast Arms as indicated on the traffic signal plan sheets
- 19 Signal Heads as indicated on the traffic signal plan sheets

The following equipment shall be removed and become property of the contractor:

ALL Conduit and Electric Cable in Conduit

This work will include all materials, equipment, and labor necessary to remove the existing traffic signal equipment as shown in the plans, and deliver salvaged equipment to the City or dispose of unwanted equipment. This work will be paid for at the contract unit price EACH for <u>REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT</u>.

REMOVE EXISTING TRAFFIC CONTROLLER AND CABINET

This work consists of removing the existing traffic controller and cabinet as shown on the plans at the intersection of Bell School Road and Business US 20 (E State Street). This work shall be done according to Section 895 of the "Standard Specifications for Road and Bridge Construction".

The existing traffic signal installation shall remain in operation until the temporary traffic signal installation is ready for operation. Upon approval of the Engineer, the Contractor shall remove the traffic signal equipment as indicated on the plan sheets.

All equipment shall be salvaged by the Contractor for the City of Rockford. Accumulate salvaged equipment in a single location and notify the City's Electrical Maintenance Contractor so that the equipment can be picked up for the City. The Contractor shall provide 5 copies of a list of equipment that is to remain the property of the City, including model and serial numbers, where applicable. He shall also provide a copy of the Contract plan or special provision showing the quantities and type of equipment. Controllers and peripheral equipment from the same location shall be boxed together (equipment from different locations may not be mixed) and all boxes and controller cabinets shall be

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clearly marked or labeled with the location from which they were removed. If equipment is not returned with these requirements, it will be rejected by the City's Electrical Maintenance Contractor. The Contractor shall be responsible for the condition of the traffic signal equipment from the time he takes maintenance of the signal installation until the acceptance of a receipt drawn by the City's Electrical Maintenance Contractor indicating the items have been picked up in good condition.

The Contractor shall safely store and arrange for pick-up of all equipment to be returned to agencies other than the City. The Contractor shall package the equipment and provide all necessary documentation as stated above.

The following equipment shall be salvaged to the City of Rockford:

Controller and Cabinet - after the activation of the new signals (if utilizing for the temporary signals) or after the activation of the temporary signals (if utilizing a temporary controller for the temporary signals)

This work will include all materials, equipment, and labor necessary to remove the existing traffic signal equipment as shown in the plans, and deliver salvaged equipment to the City or dispose of unwanted equipment. This work will be paid for at the contract unit price EACH for <u>REMOVE EXISTING TRAFFIC CONTROLLER AND CABINET</u>.

REMOVE EXISTING HANDHOLE REMOVE EXISTING CONCRETE FOUNDATION

This item shall be completed in accordance with Section 895 of the Standard Specifications with the exception that the removal shall be to a level one foot below the adjacent grade of proposed improvements, or the minimum 3' depth, whichever is greater.

This work will be paid for at the contract unit price per EACH for <u>REMOVE EXISTING HANDHOLE</u>, or EACH for <u>REMOVE EXISTING CONCRETE FOUNDATION</u>, which shall be payment in full for removing the existing concrete handhole or concrete foundation and repairing the surface to match the adjoining area.

EMERGENCY VEHICLE PRIORITY SYSTEM

This work shall be performed in accordance with manufacturer's specifications and with Section 887 of the "Standard Specification for Road and Bridge Construction".

The emergency preemption system shall be the "Tomar/Optronix Optical Preemption System" which is the supplier the Rockford Fire Department uses throughout its traffic emergency preemption network system installation and is required to provide compatibility throughout the entire City. The Rockford Fire Department shall be contacted to verify that the system is operating properly with the equipment in place on their emergency vehicle.

EMERGECY VEHICLE PRIORITY SYSTEM cost shall include the following, as well as

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items described in Section 887.03, 1072 and 1076.01 of the "Standard Specifications for Road and Bridge Construction".

SYSTEM COMPONENTS

- 1. LIGHT TRANSMITTER
- 2. LIGHT DETECTOR (includes Confirmation Beacon)

At least one per approach

3. LIGHT DETECTOR AMPLIFIER

The emergency preemption system shall be the "Tomar/Optronix Optical Preemption System". The light detector amplifier shall be rack mounted Tomar Opic-4 Card and backed with a four-channel capacity. The system shall have ID capability with the necessary software included so that events can be downloaded to a laptop computer. Contact Brown Traffic Products, 1-800-888-7078 for further information in regards to the manufacturer's installation requirements.

4. ELECTRIC CABLE IN CONDUIT, EVP, NO 14 2/C AND 16 3/C

This item shall include all electric cables and hardware recommended by the manufacturer for use with the emergency vehicle priority system. This installation shall include the number of optical detector confirmation beacons as shown in the plans and shall be installed per the manufacturer's recommendations. Contact Tom Kay at Brown Traffic Products, (319) 323-0009 for further information on the manufacturer's installation requirements.

Basis of Payment: This work shall be paid for at the contact unit price per EACH for <u>EMERGENCY VEHICLE PRIORITY SYSTEM</u>, which price will be payment in full for all labor, equipment, and materials required to supply, install, configure, and testing as described above, complete.

VIDEO VEHICLE DETECTION SYSTEM

Description: This work shall consist of furnishing, installing and placing into operation a vehicle detection system, which detects vehicles by processing video images and providing detection outputs to a traffic signal controller. This equipment shall meet the NEMA environmental, power and surge ratings as set forth in NEMA TS1 and TS2 Specifications.

Hardware: The sensor shall be four integrated imaging CCD arrays with optics, high-speed, color, image-processing hardware and a CPU bundled into a sealed enclosure. The enclosure shall be waterproof and dust-tight to NEMA-4 Specifications. The enclosure shall allow the sensor to operate satisfactorily over an ambient temperate range from -34 degrees C to +60 degrees C while exposed to precipitation as well as direct sunlight. The enclosure shall allow the image sensor horizon to be rotated during field installation. The enclosure shall include a provision at the rear of the enclosure for connection of the factory-fabricated power and communications cable. Input power to the environmental enclosure shall be 110/220 VAC and either 50 or 60 Hz. A heater shall be at the front of the enclosure to prevent the formation of ice and condensation in cold weather, as well to assure proper operation of the lens' iris mechanism. The heater shall not interfere with the video signal. The enclosure shall be light colored and shall protrude beyond the front edge of the environment enclosure and shall include provision to divert water flow to the sides of the sunshield. The amount of overhang of

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the sunshield shall be adjustable to prevent direct sunlight from entering the lens or hitting the faceplate.

The sensor shall process a minimum of twenty detector zones placed anywhere in the field of view of sensor. The sensor shall have the ability to produce digital streaming MPEG-4 video output shall have the ability to selectively show overlaid graphics indicating the current real-time detection state of each individual detector defined in the video. The sensor output color video shall be viewed with any compatible video-display device.

Sensor Hardware: As a minimum each image sensor shall produce images with a CCD sensing element with a horizontal resolution > 470 TVL NTSC. Images shall be output as video conforming to NTSC or PAL specifications and provide software MPEG-4 compression. The sensor shall provide direct real-time iris and shutter speed control. Be usable for video surveillance; provide an optical filter and appropriate electronic circuitry in the sensor to suppress "blooming" effects at night, and have gamma for the image sensor present at the factory to a value of 1.0.

Sensor Optics: The machine vision sensor shall be equipped with an integrated zoom lens with zoom and focus capabilities that can be changed using either configuration computer software or hand-held controller.

Functional: The sensor shall be able to be programmed with a variety of detector types that perform specific functions selectable by software. Detector types shall include stop line detectors capable of providing presence of moving vehicle detection based upon phase status, presence detectors, directional presence, and input detectors. Additionally, phase green or red shall be displayed; the sensor shall also have the capability of being programmed with dilemma zone detectors used to extend green time when vehicles are detected in advance of an intersection.

The unit shall monitor a programmable contract detector and apply video loss timing parameters to the output by implementing minimum, maximum, or user defined fixed time recall the assigned phase(s). The detector shall be capable of having Boolean logic applied to multiple detectors or a minimum number of detectors out of a total present, prior to placing a call.

- 1. Count detection-outputs traffic volume statistics and generates traffic counts and occupancy.
- 2. Presence detection indicate presence of a vehicle, stopped vehicle traveling in the wrong direction.
- 3. Dilemma Zone Detection Detect the presence of a vehicles specific distance from the intersection in order to extend green time.
- 4. Speed detection provide vehicle counts, speed, length, and classification.
- 5. Detector function combines outputs of multiple detectors via Boolean logic functions.
- 6. Label Displays information on the machine video output and passes input information to other detectors.
- 7. Detector Station collects and report data traffic data gathered over specified time intervals.

- 8. Incident detection monitor traffic parameters for conditions that indicate an incident has occurred, such as an accident or a stalled vehicle that results in a sudden reduction in roadway capacity or throughout.
- 9. Schedulers define plans that can be used by other detectors to specify different parameters for each time-of-day plan.
- 10. Contrast Loss Detection monitor the quality or the video image that the machine vision sensor is processing.
- 11. Speed Alarm generates alarm outputs based on user-defined algorithms using speed.

External Interfaces: The external interfaces to the sensor shall include an access point specifically to exchange detector state data with the cabinet interface devices.

Sensor Field Interface equipment: An interface panel shall be provided for installation. The interface panel provides a terminal block for terminating power and wiring to the image sensor.

Supervisor Communications Port: There shall be interface panel port to configure and provide general communications. The sensor shall use an RJ45 Ethernet connection to facilitate 10/100 Mbps communications via a network of rack cards to a remote or local PC client/server application. The communication port shall allow the user to update the embedded software with a new software release and interact with a PC client/server application for all the various detection requests supported by the sensor.

Interface Panel: The interface shall provide a dedicated interface between the machine vision sensor and a detector port master such as a card rack or Access point. The real-time state of phase inputs shall be transmitted to the sensor. The sensor shall exchange input and output state data with the detector port master shall subsequently translate the detection states in an electronically compatible manner to a traffic signal controller:

- 1. The interface card immediately upon receipt of the state change shall apply single pin state outputs and each on or off pulse shall be guaranteed a minimum pulse width of 100 ms.
- 2. Speed outputs from 2 pins shall reflect the true output of the delay proportional to unmeasured speed within + 1 ms.

Power: The sensor shall operate on 110/220 VAC, 50/50 Hz at a minimum of 25 watts. The camera and processor electronics shall consume a maximum of 10 watts. The remaining 15 watts shall support an enclosure heater.

Sensor Operations log: The machine vision sensor shall maintain a non-volatile operations log, which minimally contains:

- 1. Revision numbers for the current machine vision sensor hardware and software components in operation.
- 2. Title and comments for the detector configuration.
- 3. Date and time the last detector configuration was downloaded to the machine vision sensor.
- 4. Date and time the operation log was last cleared.

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- 5. Date and time communications were opened or closed with the machine vision sensor. Date and time of last power- up.
- 6. Time-stamped, self-diagnosed hardware and software errors that shall aid in system maintenance and troubleshooting.

Sensor Vehicle Detection Performance: The real time detection performance of the machine vision sensor shall be optimized by the following guidelines for the traffic application including sensor mounting location; traffic lanes to monitor; the sizing, placement, and orientation of vehicle detectors; traffic approaching and/or departing from the sensors field of view, and minimizing the effects of lane changing maneuvers.

Detection Zone Placement: The video detection system shall provide flexible detection zone placement anywhere and at orientation within the field of view of the machine vision sensor. Preferred detector configurations shall be detection zones placed across lanes of traffic for the optimal count accuracy, detection zones placed parallel to lanes of traffic for optimal presence detection accuracy of moving or stopped vehicles. A single detection zone shall be able to replace one or more conventional detector loops connected in series. Detection zones shall be overlapped for optimal road coverage. In addition, selective groups of detectors shall be able to be logically combined into a single output by using optional delay and extend timing and signal state information. Optimal detection shall be achieved when the sensor placement provides an obstructed view of each traffic lane where vehicle detection is required. Obstructions are not limited to fixed objects. Obstruction of the view can also occur when vehicles from a lane nearer to the sensor obscure the view of the roadway of a lane further away from the sensor.

Detection Zone Programming: Placement of detection zones shall be by means of a portable or desktop computer using a Windows operating system, a keyboard, and a mouse. The VGA monitor shall be able to show the detection zones to provide optimal road coverage for vehicle detection: modify detector parameters for site geometry to optimize performance; edit previously defined detector configurations; adjust the detection zone and placement; add detectors for additional traffic applications; reprogram the sensor for different traffic applications, changes in installation site geometry, or traffic rerouting.

It shall be possible to download detector configurations from the computer to the sensor; upload the current detector configuration that is running in the sensor; back up detector configurations by saving them to the computer's removable or fixed disks; perform the above upload, store, and retrieve functions for video snapshots of the sensor's view.

Optimal Detection: The sensor shall be able to view either approaching or departing traffic or both in the same field of view. The sensor, when placed at a mounting height that minimizes vehicle image occlusion and equipped with a lens to match the width of the road shall be able to monitor a maximum of 6 to 8 traffic lanes simultaneously.

Detection Zone Operation: The sensors real-time detection operation shall be verifiable through the following means:

- 1. View the video output of the sensor with any standard video display device (monitor).
- 2. The video output of the sensor shall be capable of selectively transmitting:
 - a. Camera video only
 - b. Analog video overlaid with the current real-time detection state of each detector.
 - c. Camera video with overlaid, scaled cross-hairs that are used for aiming the sensor (during installation).
 - d. Individual detectors shall have the option of being hidden.
- 3. View the associated output LED state on the detector port master.
 - a. An LED shall be on when its assigned detector output or signal controller phase input is on.
 - b. An LED shall be OFF when its assigned detector or signal controller input is off.

Count Detection Performance: Using a sensor installed within the optimal viewing specifications described above for count station traffic applications the system shall be able to accurately count vehicles with at least 96% accuracy under normal operating conditions (day and night) and at least 93% accuracy under adverse conditions. Adverse conditions are combinations of weather and lighting conditions of that result from shadows, fog, rain, snow, etc.

Demand Presence Detection Performance: Using a sensor installed within the optimal viewing specifications described above for intersection control appliances the system shall be able to accurately provide demand presence detection. The demand presence accuracy shall be based on the ability to enable a protected turning movement on an intersection stop line, when a demand exists. The probability of not detecting a vehicle for demand presence shall be less than 1% error under all operating conditions. In the presence of adverse conditions, the machine vision sensor shall minimize extraneous (false) protected movement's calls to less than 7%.

Speed Detection Performance: The sensor shall accurately measure average arithmetic (mean) speed of multiple vehicles more than 98% accuracy under all operating conditions for approaching and departing traffic. The average speed measurement shall include more than 10 vehicles in the sample to ensure statistical significance. The sensor shall accurately measure individual vehicle speeds with more than 95% accuracy under all operating conditions for vehicles approaching the sensor (viewing the rear end of the vehicles). These specifications shall apply to vehicles that travel through both the count and speed detector pair and shall not include partial detection situations created by lane changing maneuvers.

Sensor Electrical: The video output of the sensor shall be isolated from earth ground. All video connection from the sensor to the interface panel shall also be isolated from earth ground. The video output, communication, and power stages of the sensor due to voltage transients occurring on the cable leading from the machine vision sensor to other field terminations. Connections for video, communications and power shall be made to the image sensor using a "three wires only" branch cable connection and shall be installed to the interface panel with a compression blocks. The machine vision

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sensor shall have passed requirements for and received the CE mark. The power to the sensor shall be fused in the controller cabinet.

Auxiliary Equipment: The system shall be supplied with a color 10 inch monitor in the controller cabinet to display a camera field of view with detection areas overlaid. The input to the monitor shall be selectable from any of the cameras in the system via a push button selector device. An Ethernet cable shall be supplied in the cabinet to allow for communications from the video detection system to a laptop computer.

Training: The supplier of the video detection system shall provide two days of training to maintenance and engineering personnel in the operation, setup and maintenance of the video detection system.

Basis of Payment: This work will be paid for at the contract unit price per EACH for <u>VIDEO</u> <u>VEHICLE DETECTION SYSTEM</u>, which price shall be payment in full for furnishing, installing, and placing into operation the equipment specified to the satisfaction of the engineer.

FULL-ACTUATED CONTROLLER AND TYPE IV CABINET

This work shall consist of furnishing and installing a Full-Actuated Controller and Type IV Cabinet, in accordance with Section 863 of the Standard Specifications for Road and Bridge Construction and shall consist of an 8 phase, solid state full-actuated signal controller timer with digital design in accordance with Section 857 of the Standard Specifications for Road and Bridge Construction.

Detectors shall be rack mounted and shall accommodate existing City of Rockford electrical systems for Traffic Signals.

A 400 Watt, thermostatically controlled, electric heater shall be installed inside the cabinet. This item will not be paid for separately, but shall be included in the cost of the <u>FULL-ACTUATED</u> CONTROLLER AND TYPE IV CABINET.

The Contractor shall have a factory-trained technician from the manufacturer and/or supplier, with expertise in the controllers being installed, present during the controller installation. He will be expected to be able to program the controller timer, troubleshoot and correct any problems with the equipment that arises and verify that the equipment is functioning according to the plans and specifications.

Supplier of the controller assembly shall provide a Certificate of Acceptance verifying that the conflict monitor has been tested, under load, for all possible combinations and functions properly.

The Controller software must be compatible with existing City of Rockford electrical systems for Traffic Signals.

TRANSFER SWITCH

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This work shall consist of furnishing and installing a Transfer Switch on the outside of a traffic controlled cabinet, no less than 24" above ground level, for the use of an emergency generator to power the signals in case of a signal blackout. The Transfer Switch shall in accordance with the 2002 National Electrical Code Article 702.6 to prevent feeding back to the utility source.

The Switch must work with existing City of Rockford electrical systems for Traffic Signals.

The Switch shall be rated for 20 amps at 125 volts with a jumper cord for transitioned from the twist-lok plug in the transfer switch to the standard 120 volt plug for the generator.

A circuit breaker-base switch shall be required to have overload protection in accordance with the National Electric Code/NFPA70.

The housing shall be no less than a heavy duty 12 gauge rust and corrosion-resistant material. The housing surface shall be smooth, free of marks and scratches and provide an unpainted aluminum finish.

The housing shall be rain tight with the outlet connect underneath the box to maintain the rain tight rating.

The Switch shall be equipped with a sliding interlock to prevent the generator and the utility from feeding the circuit at the same time.

The Switch shall be tamper resistant with a #2 key lock system.

The Switch shall come equipped with a Pilot light to indicate when the utility power has been restored.

The Transfer Switch shall come with a 2 year warranty.

This item will not be paid for separately, but shall be included in the cost of the <u>FULL-ACTUATED</u> <u>CONTROLLER AND TYPE IV CABINET</u>.

<u>Basis of Payment</u>. This work shall be paid for at the contract unity price per each for <u>FULL-ACTUATED CONTROLLER AND TYPE IV CABINET</u> which price will be payment in full for all labor, equipment, materials and installation of the controller complete in specified cabinet with the necessary connections for proper operation, heater and transfer switch.

PAINT NEW TRAFFIC SIGNAL POST PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FT PAINT NEW COMBINATION MAST ARM AND POLE, OVER 40 FT

This work shall include surface preparation, powder type painted finish application and packaging of new galvanized steel traffic signal mast arm poles and post assemblies, All work associated with applying the painted finish shall be performed at tile manufacturing facility for the pole assembly or Page 27 of 39

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post or at a painting facility approved by the Engineer. Traffic signal mast arm shrouds and post bases shall also be painted the same color as the pole assemblies and posts.

The color of any traffic signal posts, pushbuttons, hardware, polycarbonate vehicle and pedestrian heads, including exposed conduits for the bracket mounted signal heads shall match the black finish of the mast arm assemblies.

Materials

Galvanizing: All materials to powder coated shall be galvanized in accordance with ASTM A 123. Only the dry-kettle (pre-fluxing) process shall be used. The material shall not be water or chromate quenched. Galvanized materials to be powder coated shall be air cooled only. An American Galvanizers Association trained Master Galvanizer shall be on the premises during the hot dipped galvanizing process.

Powder: Powder coating material shall be a thermosetting, durable, TGIC polyester powder of a degassing grade. Such coating powder must be recommended by its manufacturer for use over hot dipped galvanizing. The coating powder's particle size distribution shall be recommended by its manufacturer to produce the best results for powder coating components under this specification.

The zinc surface shall be prepared for powder coat application using a multistage system employing appropriate cleaners and imparting a phosphate conversion coat to provide an appropriate substrate for the powder coat material. During the cleaning process, water rinses shall 6e used as appropriate between stages to clean the items and prepare them for the subsequent stages. Water for the rinses, unless specified elsewhere shall be potable with a hardness not to be more than 250 ppm as CaCO₃ and a combined chloride and sulfate level less than 100 ppm.

Surface Defects: All weld flux and other contaminates shall be mechanically removed. All drainage spikes, tears, high spots, protrusions or other surface defects shall be removed using hand or power tools in accordance with the manufacturer's specifications. Such operations shall not remove the galvanized coating below the thickness allowed by ASTM A 123.

Thickness of the galvanizing shall be verified using a properly calibrated magnetic thickness gauge as per ASTM E 376. Any item falling below the required zinc thickness, before or after removal of any high spots, shall be repaired in accordance with Practice A 780.

Surface Cleaning: The galvanized surface shall be clean and free of oils and grease before they are powder coated. These shall be removed by use of an aqueous alkaline solution and/or hand or power tool cleaning. Subsequent to alkaline/power cleaning, trace zinc oxide will be removed by a mild acidic solution.

• An alkaline solution, pH in the range of 11 to 12 may be used to remove traces of oil, grease, or dirt. The alkaline solution shall not have a pH exceeding 13. After cleaning the piece shall be rinsed thoroughly in water under pressure.

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- Hand or power tool cleaning may be used to clean light deposits of zinc reaction products such as wet storage stain, as specified to SSPC Surface Preparation Specification 2 or 3 as appropriate.
- An acidic solution with a pH of 3.5 to 4.5 shall be sprayed onto the item to remove residual zinc oxide.

Surface Profiling: The galvanized surface shall be profiled to promote proper powder coating adhesion. This shall be accomplished by applying a phosphate treatment to create a protective crystalline phosphate conversion coating on the zinc surface. The coating shall have a coating weight between 20 to 70 mg/ft2.

Final Rinse: To ensure the most optimum performance possible, a final rinse of de-mineralized water shall be applied as a final rinse prior to pre-baking. This stage will remove any un-reacted phosphate and other contaminants.

The finish color shall be one of the manufacturer's standard colors and shall be as selected by the local agency responsible for paint costs. The Contractor shall confirm, in writing, the color selection with the local responsible agency and provide a copy of the approval to the Engineer and a copy of the approval shall be included in the material catalog submittal. The City desires a smooth powder black finish to match the proposed LIGHT POLE, ALUMINUM, 40 FT. M.H., being installed as part of the project and the existing light poles in the City of Rockford.

Pre-baking: Following phosphating all items to be powder coated shall be placed in an oven capable of maintaining a temperature of 500°F. Specimens shall be baked at a temperature 25°F above the normal cure temperature for the powder that will be employed. The specimens shall remain in the oven for a minimum of 20 minutes after having equalized to the temperature of the oven to remove any residual moisture from the preparation phase, and insure expulsion of any entrapped gases or moisture. Typically, specimens are pre-baked for one hour.

Powder Coat Application: Polyester powder shall be applied through electrostatic/tribomatic application guns. The powder shall be applied in multiple coats. The first coat shall have a thickness of 1.5 to 3 mils. Each intermediate coat shall be partially cured at a temperature of 350°F to insure adhesion. Subsequent coats shall be then applied in 1.5 to 3 mil increments to bring the specimen to its final (cured) thickness as required by the customer specification. In no case will the final (cured) thickness be less than 5 mils.

Cure: The powder coating shall be cured by heating the coated specimens to a temperature and duration specified by the powder coat material manufacturer to insure sufficient curing of the powder coating material. The resulting coating shall be uniform in color and free of pinholes, blisters, and other surface defects. Correct cure shall be checked by a solvent rub test.

Properties of Cured Coating:

Minimum film thickness TGIC 5.0 mils (120µm) Direct impact ASTM D 2794 160 in./lb (9.0 m/kg) Reverse impact ASTM D 2794 160 in./lb (9.0 m/kg) Page 29 of 39
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Pencil hardness (scratch/gouge) ASTM D 383 2H Flexibility (Mandrel test) ASTM D 522 1/8 in. (3m mm) Minimum adhesion ASTM D 3359 5A,5B (100% crosshatch) Salt spray ASTM B 117 + 1000 hrs < 2mm Repair of Powder Coated Material:

- Damage shall be defined as exposed galvanized coating.
- Damaged coatings less than 1/2 of 1% of the surface area shall be acceptable for repair.
 Damage greater than that amount shall be recoated. Final finish shall be damage free FOB the plant.
- Coatings to be repaired shall be touched up as recommended by the galvanizer and the
 powder coating supplier. Touch up and/or field repair can be accomplished using either
 powder coating material or paint. Typically acrylic based paint as recommended by the
 powder coating material manufacturer, applied either by spray or brushed on liquid is used for
 touch up and repair of the powder coating.

Any damage to the finish after leaving the manufacturer's facility shall be repaired to the satisfaction of the Engineer using a method approvable by the Engineer and manufacturer. If while at the manufacturer's facility the finish is damaged, the finish shall be re-applied.

Warranty: The Contractor shall furnish in writing to the Engineer, the paint manufacturer's standard warranty and certification that the paint system has been properly applied.

Packaging: Prior to shipping, the poles and posts shall be wrapped in ultraviolet-inhibiting plastic foam or rubberized foam.

Basis of Payment: This work shall be paid for at the contract unit price per Each for <u>PAINT NEW TRAFFIC SIGNAL POST</u>, <u>PAINT NEW COMBINATION MAST ARM AND POLE</u>, <u>UNDER 40 FT</u> and <u>PAINT NEW COMBINATION MAST ARM AND POLE</u>, <u>OVER 40 FT</u>, which shall be payment in full for painting and packaging the traffic signal mast arm poles and posts described above including all shrouds, bases, appurtenances, and as described in this specification.

STREET NAME SIGN MAST ARM MOUNT

This work shall consist of fabricating and installing mast arm mounted street name signs as shown on the plans and in accordance with Highway Standard 720016, style (d) and the standard specifications Section 720 except types of individual panels, Type 1, 2, and 3 do not apply. Contractor shall present shop drawings of proposed signs to the engineer for approval prior to fabrication and installation. Nominal sign height shall be 18" with 8" letters. Length will vary based on street name. Street name signs for the streets listed below are followed by the quantity of each.

E State Street 2 Each Bell School Road 6 Each Walton Street 2 Each

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Argus Drive 2 Each Potawatomi Trail 2 Each

Cross street address identification will be provided by the City of Rockford under a separate contract, not included in this scope of work.

<u>Basis of Payment</u>. This work will be paid for at the contract unit price per EACH for <u>STREET NAME SIGN MAST ARM MOUNT</u>, of the spelling designated on the plans.

MAINTENANCE OF TEMPORARY LIGHTING SYSTEM

Work shall consist of servicing and repairing all lighting equipment shown on the construction documents so that all lights are lit each night for the duration of the contract. The energy charges for the operation of the highway lighting will be paid by the Contractor.

The Contractor shall be responsible for all maintenance of the temporary lighting beginning upon installation and shall end upon removal of the system.

The Contractor shall supply all materials and labor to perform all routine maintenance required. The Contractor shall make every effort to ensure that each light is functioning before leaving the job site. The Contractor shall replace all burnouts on a next day basis and initiate circuit outage repairs one (1) hour after discovery or notification. When temporary repairs are made during night hours, permanent repairs shall be made starting the following work day, and continue until completed. The Contractor shall maintain, in stock, a sufficient amount of material and equipment to provide temporary and permanent repairs. The Contractor shall be required to install temporary wiring as necessary to keep all lights functioning every night. All temporary wiring and splicing shall be included in this pay item. The Contractor shall be reimbursed for repair of accident damage according to Article 109.04. The Contractor shall provide the resident Engineer with the names and telephone numbers of two (2) people who will be available twenty-four (24) hours a day, seven (7) days a week to perform any necessary work on the highway lighting.

If at any time the Contractor fails to perform any work deemed necessary by the Engineer to keep the highway lighting in proper operating condition, or if the Engineer is unable to contact the designated persons to perform the work, the Department reserves the right to have other electrical contractors perform the needed work. The cost of such work will be deducted from the amount due to the Contractor.

<u>Basis of Payment.</u> This work shall be paid for at the contract unit price lump sum for MAINTENANCE OF TEMPORARY LIGHTING SYSTEM which price shall be payment in full for all materials, equipment, and labor necessary to inspect and maintain the existing highway lighting equipment and circuits. Upon beginning the maintenance of the lighting, 50 percent of the bid price will be paid. Upon completion of 50 percent of the project, 25 percent will be paid. Upon release of the Contractor from maintenance responsibility, 25 percent will be paid.

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TEMPORARY LIGHTING SYSTEM

This work shall consist of providing a temporary lighting system at the project locations specified in the plans. The Contractor shall provide all labor, material, and equipment necessary to furnish, install, maintain, and remove the temporary lighting system. This work shall also include the relocation of temporary lighting facilities as necessary to accommodate the various stages of construction and removal of all temporary lighting facilities at the completion of the project. All work shall be performed in accordance with the plans, Standard Specifications, and as directed herein.

The Contractor shall submit for the District's approval, any modifications to the lighting design plan showing the proposed locations of all temporary poles for each stage of construction associated with each phase of the project. Any modifications by the Contractor to the lighting design shall meet the requirements of Department's BDE Design Manual, Chapter 56 and no poles shall be installed until the Contractor's revised detailed lighting design plan is approved by the Engineer.

The Contractor shall not purchase temporary lighting facilities until the Contractor has submitted shop drawings and received the Engineer's approval to proceed. All temporary lighting facilities shall become property of the Contractor and shall be removed from the site at no additional cost. Any temporary lighting materials used by the Contractor which come from stock rather than being purchased new for this project shall require written approval by the Engineer.

The Contractor shall be responsible to maintain the temporary lighting system throughout the project and no additional compensation will be allowed for this work, no matter how many times temporary and/or permanent lighting facilities are relocated.

Dragging cable on the ground will not be permitted. Splices shall be rated for and designed to connect aluminum conductors to copper (or aluminum as applicable) conductors of the size range required. The cable shall be installed in one continuous length with no splices where possible. No underground splicing of cable will be permitted. The cable shall be carefully installed in trench or conduit as indicated on the plans and according to manufacturer's recommendations. The installation shall be inspected by the Engineer before it is backfilled.

For the long underground power feeds, temporary direct burial power cable 600V secondary UD aluminum conductors with XLP insulation shall be used. The aluminum conductors shall meet ASTM B-230, B-231, B-609, and B-901. The cable insulation shall meet ICEA S-105-692 for XLP insulated conductors and UL Standard 854 for Type USE-2. Cables may be triplexed by the manufacturer to promote ease of installation with approval of the Engineer. The splices shall meet the applicable portions of Article 1066.06 of the Standard Specifications. The cable shall be installed directly from the reels on which the cable was shipped. Installation, after inspection by the Engineer, shall be backfilled according to Section 819. Plowing will not be allowed.

Cable splicing, luminaire fusing, and lighting protection shall be submitted for approval. All work required to keep the temporary lighting system operational shall be at the Contractor's expense. No

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lighting circuit or portion thereof shall be removed from nighttime operation without the approval of the Engineer.

An inspection and approval by the Engineer shall take place before the temporary lighting system or modified system is approved for operation. Any damage to the existing lighting units and their circuitry as a result of the Contractor's negligence shall be repaired or replaced to the satisfaction of the Engineer at no cost to the Department. All burnouts shall be replaced on a next day basis and temporary wiring shall be installed as necessary to keep all lights functioning every night. Contractor shall furnish to the Engineer the names and phone numbers of two persons responsible for call-out work on the lighting system on a 24/7 basis.

The Contractor shall not be responsible for any utility charges for establishing a point of service from the power company at the location(s) shown on the plans. The Contractor shall be responsible for all costs associated with removal of the temporary electric service when the project is complete. The Contractor shall pay the energy costs until such time as the project is complete and accepted by IDOT. Any energy charges which the Contractor would like to present to the Department for reimbursement shall be properly metered, billed, and prorated by the Contractor at no cost to the Department. The Contractor shall be reimbursed for repair of accident damage according to Articles 105.13 and 107.30 of the Standard Specifications.

<u>Basis of Payment:</u> This work shall be paid for at the contract lump sum price for TEMPORARY LIGHTING SYSTEM.

<u>LIGHTING UNIT, ALUMINUM, COMPLETE, 40' AND 16' M.H., DUAL LUMINAIRE ARM (SPECIAL)</u> <u>LIGHTING UNIT, ALUMINUM, COMPLETE, 40' M.H., SINGLE LUMINAIRE ARM (SPECIAL)</u>

Description: This work shall consist of furnishing all equipment, material and labor necessary to properly install the proposed light poles with mast arms as specified at the locations as indicated on the plans. All extra light poles shall become maintenance stock and shall be picked up through contractor coordination with the City's Electrical Maintenance Contractor to the satisfaction of the Engineer and the City of Rockford.

Materials: The materials shall be in accordance with Article 830.02 of the "Standard Specifications", plan details, and the following:

Light poles shall be 40 feet mounting height with 6 foot, 8 foot, 10 foot or 12 foot mast arm. Mast arm length to be chosen and coordinated in the field to ensure the light fixtures hang out an equal distance over the roadway with respect to each other. Where shown on the plans as dual luminaire arm, the secondary mounting height shall be 16 feet.

Light poles shall be as manufactured by Valmont to match with existing light poles in the City of Rockford.

The aluminum pole, pole base, FHWA approved aluminum clamshell breakaway base (shroud),

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bracket arms and attachments shall be painted black using a powder coat process. They shall be cleaned prior to the powder coat process by the immersion process using both an alkaline and acid bath. The black finish shall be a thermosetting powder coat. The powder resin shall be type TGIC super durable polyester. The aluminum shall be preheated to a sufficient temperature, prior to the coating process, to insure all water vapor is removed in order to fuse the powder to the metal. The pole and appurtenances shall be over cured, after spraying, for a cycle of 5 to 15 minutes at a temperature of 375 to 400 degrees Fahrenheit. The finished coat shall have a dry coat minimum of 3 mil.

A thorough visual inspection shall be made of the painted finish of the installed pole and a field touchup or recoat shall be performed by the Contractor at no additional cost.

General: The work shall be completed in accordance with Section 830 of the "Standard Specifications", plan details, and as modified herein.

Basis of Payment: The work will be paid for at the contract unit price per EACH for <u>LIGHTING UNIT</u>, <u>ALUMINUM</u>, <u>COMPLETE</u>, 40' AND 16' M.H. <u>DUAL LUMINAIRE ARM (SPECAIL)</u> or <u>LIGHTING UNIT</u>, <u>ALUMINUM</u>, <u>COMPLETE</u>, 40' M.H. <u>SINGLE LUMINAIRE ARM (SPECAIL)</u>. The unit price shall include the cost of all materials, equipment and labor required to furnish and install the light poles with clamshell base and mast arms of the length specified including the Valmont, or approved equal, smooth powder finish.

LUMINAIRE, LED, HORIZONTAL MOUNT, SPECIAL

Description: This work shall consist of furnishing all equipment, material and labor necessary to properly install the proposed luminaires at locations as indicated on the plans.

Materials: The materials shall be in accordance with Article 821.02 of the "Standard Specifications", plan details, and the following:

Luminaires shall be 135 Watt, LED. Luminaires on aluminum light poles with mast arms shall be catalog number DMS50 135W80LED4K-R-LE3S as manufactured by Lumec, or approved equal to match with existing luminaires in the City of Rockford.

General: The work shall be completed in accordance with Section 821 of the "Standard Specifications", plan details, and as modified herein.

Basis of Payment: The work will be paid for at the contract unit price per EACH for <u>LUMINAIRE</u>, <u>LED HORINZONTAL MOUNT</u>, (<u>SPECIAL</u>). The unit price shall include the cost of all materials, equipment and labor required to furnish and install the luminaires.

LUMINAIRE, SPECIAL

Description: This work shall consist of furnishing all equipment, material and labor necessary to

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properly install the proposed luminaires at locations as indicated on the plans.

Materials: The materials shall be in accordance with Article 821.02 of the "Standard Specifications", plan details, and the following:

Luminaires shall be 400 Watt, Metal Halide. Luminaires on aluminum light poles with mast arms shall be catalog number DMS55-SG3-480-400MH as manufactured by Lumec, or an approved equal, to match with existing luminaires in the City of Rockford.

General: The work shall be completed in accordance with Section 821 of the "Standard Specifications", plan details, and as modified herein.

Basis of Payment: The work will be paid for at the contract unit price per EACH for <u>LUMINAIRE</u>, <u>SPECIAL</u>. The unit price shall include the cost of all materials, equipment and labor required to furnish and install the luminaires.

RELOCATE EXISTING LIGHT POLE

This work shall conform to applicable portions of sections 830 and 842 of the Standard Specifications. Work shall include the disconnection of the existing light pole to be relocated. There are two poles, one at Machine Shed parking lot and one at Burger King parking lot. Pay item includes removal of light pole, temporary storage, and relocation to a new foundation with reconnection to the existing system. Contractor shall prosecute work in a continuous manner once starting so as to minimize down time for each light. Splice wires at these locations may be needed to make sure that the remainder of each parking lot system is fully functional.

This work shall be paid for at the contract unit price per EACH for <u>RELOCATE EXISTING LIGHT POLE</u>, and shall include foundation removal, new foundation, conduit and wiring resulting in a complete and operational relocated light pole.

LIGHT POLE FOUNDATION, 30" DIAMETER

This work shall conform to Section 836 of the Standard Specifications and Standard 836001 for a concrete light pole foundation. Contractor shall examine the existing light pole and match the bolt patter required for proper reinstallation.

This work shall be paid for at the contract unit price per FOOT for <u>LIGHT POLE FOUNDATION</u>, <u>30</u>" <u>DIAMETER</u>.

REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES

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

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

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

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

The Contractor shall manage any excavated soils and sediment within the following areas: Site 2914-8

(Illinois Machine Shed)

- Station 303+60 to Station 304+50 (Bell School Road, CH 26), 0 to 70 feet LT (Illinois Machine Shed, PESA # 2914-8, 7475 East State Street) -This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: Lead.
- Station 304+50 to Station 305+20 (Bell School Road, CH 26), 0 to 50 feet LT (Illinois Machine Shed, PESA # 2914-8, 7475 East State Street) -This material meets the criteria of Article 669.09(b)(1) and shall be managed in accordance with Article 669.09.
- Station 305+95 to Station 306+70 (Bell School Road, CH 26), 0 to 50 feet LT (Illinois Machine Shed, PESA # 2914-8, 7475 East State Street) This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Dibenzo(a,h)anthracene, and Indeno(1,2,3-cd)pyrene.
- Station 306+70 to Station 307+30 (Bell School Road, CH 26), 0 to 50 feet LT (Illinois Machine Shed, PESA # 2914-8, 7475 East State Street) This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: Manganese.
- Station 307+30 to Station 307+90 (Bell School Road, CH 26), 0 to 75 feet LT (Illinois Machine Shed, PESA # 2914-8, 7475 East State Street) This material meets the criteria of Article 669.09(b)(1) and shall be managed in accordance with Article 669.09.
- Station 307+90 to Station 309+00 (Bell School Road, CH 26), 0 to 130 feet LT (Illinois Machine Shed, PESA # 2914-8, 7475 East State Street) -This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: Manganese.
- Station 664+55 to Station 665+50 (East State Street, US BR 20), 0 to 80 feet RT (Illinois Machine Shed, PESA # 2914-8, 7475 East State Street)- This material meets the criteria of Article 669.09(a)(3) and

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FAU 5149 (Bell School Road)
Project No. M-5099 (112)
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Winnebago County
Contract No. 85616
Job No. C-92-118-06

shall be managed in accordance with Article 669.09. COC sampling parameters: Benzo(a)pyrene, Lead and Manganese.

- Station 663+85 to Station 664+55 (East State Street, US BR 20), 0 to 80 feet RT (Illinois Machine Shed, PESA # 2914-8, 7475 East State Street) This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: Lead and Manganese.
- Station 663+70 to Station 663+85 (East State Street, US BR 20), 0 to 80 feet RT (Illinois Machine Shed, PESA # 2914-8, 7475 East State Street) This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: Manganese.

Site 2914-9 (Commercial Building)

- Station 306+70 to Station 307+40 (Bell School Road, CH 26), 0 to 65 feet RT (Commercial Building, PESA # 2914-09, 7521-7551 Walton Street) -This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: Lead.
- Station 307+40 to Station 308+10 (Bell School Road, CH 26), 0 to 130 feet RT (Commercial Building, PESA # 2914-09, 7521-7551 Walton Street) -This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: Manganese.
- Station 11+00 to Station 11+75 (Walton Street), 0 to 50 feet LT (Commercial Building, PESA # 2914-09, 7521-7551 Walton Street) This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: Benzo(a)pyrene.
- Station 11+75 to Station 12+45 (Walton Street), 0 to 45 feet LT (Commercial Building, PESA # 2914-09, 7521-7551 Walton Street) This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: Benzo(a)pyrene and Manganese.

Site 2914-16 (Fairfield Inn & Suites)

• Station 674+25 to Station 674+75 (East State Street, US BR 20), 0 to 70 feet RT (Fairfield Inn & Suites, PESA # 2914-16, 7651 Walton Street) - This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: Benzo(a)pyrene, Lead, and Manganese.

Site 2914-17 (Hilton Garden Inn)

- Station 675+20 to Station 675+70 (East State Street, US BR 20), 0 to 70 feet RT (Hilton Garden Inn, PESA # 2914-17, 7675 Walton Street) This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: Manganese.
- Station 676+20 to Station 676+70 (East State Street, US BR 20), 0 to 70 feet RT (Hilton Garden Inn, PESA # 2914-17, 7675 Walton Street) This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: Manganese.

Site 2914-18 (Vacant Land)

• Station 679+15 to Station 679+75 (East State Street, US BR 20), 0 to 75 feet RT (Vacant Land, PESA # 2914-18, 7600 block of East State Street)- This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: Benzo(a)pyrene, Lead, and Manganese.

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FAU 5149 (Bell School Road)
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Winnebago County
Contract No. 85616
Job No. C-92-118-06

REMOVE AND REINSTALL FIBER OPTIC CABLE IN CONDUIT

This work shall conform to applicable portions of sections 871 of the Standard Specifications. Work shall include the removal and reconnection of fiber optic cable due to the modifications needed on the traffic signal interconnect circuit along the south side of U.S. Business 20. Protection of the fiber optic cable while working on the conduit and handhole adjustments is the responsibility of the Contractor.

This work shall be paid for at the contract unit price per FOOT for <u>REMOVE AND REINSTALL FIBER OPTIC CABLE IN CONDUIT</u>, and shall include all labor and equipment required for the reconnection of the traffic signal interconnect circuit between Buckley and Bell School.

MULCH PLACEMENT 4"

This work consists of installing hardwood mulch in landscaped areas along both sides of Bell School Road where landscape plant materials are installed between the back of curb of adjacent parking lots and the back of curb on Bell School Road. There are three such linear areas shown on the restoration plan. The color of the mulch shall match the color of the existing mulch used by each property owner. Place the much after the landscape beds have received the required thickness of topsoil, plant placement and fertilizers. Place the mulch at a uniform depth of 4". Adjacent streets and parking lots shall be swept clean upon completion of the mulch installation.

This work shall be paid for at the contract unit price per SQUARE YARD for MULCH PLACEMENT 4" and shall include all material, labor and equipment required.

REQUIREMENTS FOR WATER MAIN VALVE SHUT OFF

Contractor shall obtain the permission of the Water Superintendent, or his designee, prior to any water main valve shut off.

Contractor shall notify all water customers affected by the water main valve shut off at least 24 hours in advance, using forms supplied by the Water Division.

Contractor shall notify the Water Division Operations Center Operator (779-348-7368) prior to any water main valve shut off and provide the following information (pursuant to Illinois Municipal Code 65 ILCS 5/11-20-10.5):

- · Streets and boundaries of shut down
- Time of shut down
- Approximate duration of shut down
- Number of customers affected
- If non-residential customers (hospitals, nursing homes, restaurants, etc.) are affected, a count of how many individuals affected will be provided.

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FAU 5149 (Bell School Road)
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Winnebago County
Contract No. 85616
Job No. C-92-118-06

Contractor shall notify Water Division Operations Center Operator upon completion of repairs and restoration of water service.

Contractor shall demonstrate, to the satisfaction of the Owner, that water service at each residence or business affected by the shut down has been restored once the water service line has been reconnected.

Contractor shall meet with Water Division personnel at least five (5) days prior to start of construction to coordinate exercising valves and determining valve shut off patterns during construction. The shut down shall be allowed to proceed only after the Water Division representative has determined that the required valves are functioning. The Contractor shall be responsible for turning valves on and off during construction and accepts the responsibility for any and all damage to City property during construction.

All costs of work associated with scheduled water main valve shut off shall be included in the individual bid items and no additional compensation shall be allowed.

REQUIREMENTS FOR UNSCHEDULED (EMERGENCY) WATER MAIN VALVE SHUT OFF:

In the event the Contractor must perform an unscheduled water main valve shut off; the Contractor shall notify the Water Division Operations Center Operator (779-348-7368) as soon as possible.

The Contractor shall notify all water customers affected by the water main valve shut off and the need to boil water as soon as possible, using forms supplied by the Water Division.

The Contractor shall provide the following information (pursuant to Illinois Municipal Code 65 ILCS 5/11-20-10.5):

- · Streets and boundaries of shut down
- Time of shut down
- Approximate duration of shut down
- Number of customers affected
- If non-residential customers (hospitals, nursing homes, restaurants, etc.) are affected, a count of how many individuals affected will be provided.

If the Contractor is involved in repairs, the Contractor shall notify Water Division Operations Center Operator upon completion of repairs when water service has been restored.

IDOT TRAINING PROGRAM GRADUATE ON-THE-JOB TRAINING SPECIAL PROVISION (TPG)

Effective: August 1, 2012 Revised: February 1, 2014

In addition to the Contractor's equal employment opportunity affirmative action efforts undertaken as elsewhere required by this Contract, the Contractor is encouraged to participate in the incentive program to provide additional on-the-job training to certified graduates of IDOT funded pre-apprenticeship training programs outlined by this Special Provision.

It is the policy of IDOT to fund IDOT pre-apprenticeship training programs throughout Illinois to provide training and skill-improvement opportunities to assure the increased participation of minority groups, disadvantaged persons and women in all phases of the highway construction industry. The intent of this IDOT Training Program Graduate (TPG) Special Provision is to place certified graduates of these IDOT funded pre-apprentice training programs on IDOT project sites when feasible, and provide the graduates with meaningful on-the-job training intended to lead to journey-level employment. IDOT and its sub-recipients, in carrying out the responsibilities of a state contract, shall determine which construction contracts shall include "Training Program Graduate Special Provisions." To benefit from the incentives to encourage the participation in the additional on-the-job training under this Training Program Graduate Special Provision, the Contractor shall make every reasonable effort to employ certified graduates of IDOT funded Pre-apprenticeship Training Programs to the extent such persons are available within a reasonable recruitment area.

Participation pursuant to IDOT's requirements by the Contractor or subcontractor in this Training Program Graduate (TPG) Special Provision entitles the Contractor or subcontractor to be reimbursed at \$15.00 per hour for training given a certified TPG on this contract. As approved by the Department, reimbursement will be made for training persons as specified herein. This reimbursement will be made even though the Contractor or subcontractor may receive additional training program funds from other sources for other trainees, provided such other source does not specifically prohibit the Contractor or subcontractor from receiving other reimbursement. For purposes of this Special Provision the Contractor is not relieved of requirements under applicable federal law, the Illinois Prevailing Wage Act, and is not eligible for other training fund reimbursements in addition to the Training Program Graduate (TPG) Special Provision reimbursement.

No payment shall be made to the Contractor if the Contractor or subcontractor fails to provide the required training. It is normally expected that a TPG will begin training on the project as soon as feasible after start of work utilizing the skill involved and remain on the project through completion of the contract, so long as training opportunities exist in his work classification or until he has completed his training program. Should the TPG's employment end in advance of the completion of the contract, the Contractor shall promptly notify the designated IDOT staff member under this Special Provision that the TPG's involvement in the contract has ended and supply a written report of the reason for the end of the involvement, the hours completed by the TPG under the Contract and the number of hours for which the incentive payment provided under this Special Provision will be or has been claimed for the TPG.

The Contractor will provide for the maintenance of records and furnish periodic reports documenting its performance under this 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 \$15.00 per hour for certified TRAINES TRAINING PROGRAM GRADUATE. The estimated total number of hours, unit price and total price have been included in the schedule of prices.

The Contractor shall provide training opportunities aimed at developing full journeyworker in the type of trade or job classification involved. The initial number of TPGs for which the incentive is available under this contract is Z. During the course of performance of the Contract the Contractor may seek approval from the Department for additional incentive eligible TPGs. In the event the Contractor subcontracts a portion of the contract work, it shall determine how many, if any, of the TPGs 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 Program Graduate Special Provision is made applicable to such subcontract if the TPGs are to be trained by a subcontractor and that the incentive payment is passed on to each subcontractor.

For the Contractor to meet the obligations for participation in this TPG incentive program under this Special Provision, the Department has contracted with several entities to provide screening, tutoring and pre-training to individuals interested in working in the applicable construction classification and has certified those students who have successfully completed the program and are eligible to be TPGs. A designated IDOT staff member, the Director of the Office of Business and Workforce Diversity (OBWD), will be responsible for providing assistance and referrals to the Contractor for the applicable TPGs. For this contract, the Director of OBWD is designated as the responsible IDOT staff member to provide the assistance and referral services related to the placement for this Special Provision. For purposes of this Contract, contacting the Director of OBWD and interviewing each candidate he/she recommends constitutes reasonable recruitment.

Prior to commencing construction, the Contractor shall submit to the Department for approval the TPGs to be trained in each selected classification. Furthermore, the Contractor shall specify the starting time for training in each of the classifications. No employee shall be employed as a TPG in any classification in which he/she has successfully completed a training course leading to journeyman status or in which he/she has been employed as a journeyman. Notwithstanding the on-the-job training purpose of this TPG Special Provision, some offsite training is permissible as long as the offsite training is an integral part of the work of the contract and does not comprise a significant part of the overall training.

Training and upgrading of TPGs of IDOT pre-apprentice training programs is intended to move said TPGs toward journeyman status and is the primary objective of this Training Program Graduate Special Provision. Accordingly, the Contractor shall make every effort to enroll TPGs by recruitment through the IDOT funded TPG programs to the extent such persons are available within a reasonable area of recruitment. The Contractor will be responsible for demonstrating the steps that it has taken in pursuance thereof, prior to a determination as to whether the Contractor is in compliance and entitled to the Training Program Graduate Special Provision \$15.00 an hour incentive.

The Contractor or subcontractor shall provide each TPG with a certificate showing the type and length of training satisfactorily completed.



Storm Water Pollution Prevention Plan

Route	FAU 5149 Bell School	Marked Rte.	Bell School Road				
Section	04-00345-00-CH	Project No.	M-5099 (112)				
County	Winnebago	Contract No.	85616				
Permit No	has been prepared to comply with the provisions of the ILR10 (Permit ILR10), issued by the Illinois Environ truction site activities.	ne National Polluta mental Protection	ant Discharge Elimination System (NPDES) Agency (IEPA) for storm water discharges				
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.							
	Carlos Molina (M)						
	Print Name Project Manager		Signature				
	Title		Date				
<u> </u>	Vinnebago County Highway Departement						
	Agency						
I. Site I	Description:						

A. Provide a description of the project location (include latitude and longitude):

The project is located at Bell School Road and East State Street (US BR 20) in Rockford IL. Latitude = 42.2703427; Longitude = -88.970264144

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

The project scope includes pavement rehabilitation, new pavement, additional lanes, drainage improvements, construction of shared use path, sidewalks, retaining walls, traffic signal upgrades, and lighting. Earthwork will occur within the limits of the right of way.

C. Provide the estimated duration of this project:

The schedule is approximately one year which will span two construction seasons.

D. The total area of the construction site is estimated to be 8.60 acres.

The total area of the site estimated to be disturbed by excavation, grading or other activities is 8.60 acres.

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

0.85

F. List all soils found within project boundaries. Include map unit name, slope information, and erosivity:

533, Urband Land (0%-2%, K=-, T=-; 227B Argyle silt loam (2%-5%, K=0.24, T=4); 412B Ogle silt loam (2%-5%, K=0.28, T=5); 280B Fayette silt loam (2%-5%, K=0.37, T=5)

G. Provide an aerial extent of wetland acreage at the site:

See Attached aerial photo

H. Provide a description of potentially erosive areas associated with this project:

The terrain within the project limits is generally gently sloping. An area on the south side of US 20 on the west leg

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of the intersection is adjacent to a drainage ditch. This area represents the steepest slope area on the project and should be protected upon completion of the pavement widening in that area. Turf area on the foreslope will be protected until finali stabilization is achieved.

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

Stage 1 consists of widening Bell School on the east side. Earthwork for adding lanes will take place in existing vegetated zones. Aggregate base courses, concrete curb and gutter, topsoil fore slopes and back slopes with seed and fertilizers will stabilize disturbed soils.

Stage 2 consists of widening both Bell School and East State on the west side. Earthwork for adding lanes will take place in existing vegetated zones. Aggregate base courses, concrete curb and gutter, topsoil fore slopes and back slopes with seed and fertilizers will stabilize disturbed soils.

Stage 3 consists of improving the medians on Bell School. Earthwork for medians will be stabilized by aggregate base courses, concrete curb and gutter, and concrete surface treatments.

Stage 4 consists of construction of the northeast and southwest islands at Bell School and East State. The island construction will take place over a stabilized aggregate base course.

- J. 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.
- K. Identify who owns the drainage system (municipality or agency) this project will drain into:

The project drains to the headwaters of Madigan Creek. Madigan Creek is an urban waterway which flows southerly approximately 21,300 feet to the Kishwaukee River. The creek is owned by individual property owners along its route and is maintained by both the City of Rockford and the Village of Cherry Valley.

L. The following is a list of General NPDES ILR40 permittees within whose reporting jurisdiction this project is located.

The City of Rockford

M. The following is a list of receiving water(s) and the ultimate receiving water(s) for this site. The location of the receiving waters can be found on the erosion and sediment control plans:

The project drains to Madigan Creek which is an urban waterway. Ultimately, Madigan Creek drains to the Kishwaukee River.

N. Describe areas of the site that are to be protected or remain undisturbed. These areas may include steep slopes, highly erodible soils, streams, stream buffers, specimen trees, natural vegetation, nature preserves, etc.

Areas outside of the edge of the new pavement and back slopes will remain undisturbed. The banks of Madigan Creek will not be included in the project scope and therefore will remain as they currently exist.

Ο.	The following sensitive environmental resources are associated with this project, and may have the potential to be
	impacted by the proposed development:

ds, turbidity or siltation
·
ds, turbidity or sil

1. 303(d) Listed receiving waters (fill out this section if checked above):

n/a

a. The name(s) of the listed water body, and identification of all pollutants causing impairment:

n/a

b. Provide a description of how erosion and sediment control practices will prevent a discharge of sediment resulting from a storm event equal to or greater than a twenty-five (25) year, twenty-four (24) hour rainfall event:

Storm water detention is not a part of the reconstruction project. Inlet protection is provided on rebuilt and new storm water inlets to reduce sediment loading during construction.

c. Provide a description of the location(s) of direct discharge from the project site to the 303(d) water body:

n/a

d. Provide a description of the location(s) of any dewatering discharges to the MS4 and/or water body:

n/a

- TMDL (fill out this section if checked above)
 - a. The name(s) of the listed water body:

n/a

b. Provide a description of the erosion and sediment control strategy that will be incorporated into the site design that is consistent with the assumptions and requirements of the TMDL:

n/a

c. If a specific numeric waste load allocation has been established that would apply to the project's discharges, provide a description of the necessary steps to meet that allocation:

n/a

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

\boxtimes	Soil Sediment	\boxtimes	Petroleum (gas, diesel, oil, kerosene, hydraulic oil / fluids)
\boxtimes	Concrete	\boxtimes	Antifreeze / Coolants
\boxtimes	Concrete Truck Waste	\boxtimes	Waste water from cleaning construction equipment
\boxtimes	Concrete Curing Compounds		Other (specify)
\boxtimes	Solid Waste Debris		Other (specify)
	Paints		Other (specify)
	Solvents		Other (specify)
\boxtimes	Fertilizers / Pesticides		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 ILR10. 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: At a minimum, controls must be coordinated, installed and maintained to:
 - 1. Minimize the amount of soil exposed during construction activity;
 - 2. Minimize the disturbance of steep slopes;
 - 3. Maintain natural buffers around surface waters, direct storm water to vegetated areas to increase sediment removal and maximize storm water infiltration, unless infeasible;
 - 4. Minimize soil compaction and, unless infeasible, preserve topsoil.

- B. Stabilization 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(B)(1) and II(B)(2), stabilization measures shall be initiated **immediately** where construction activities have temporarily or permanently ceased, but in no case more than **one** (1) day 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 fourteen (14) or more calendar days.
 - 1. Where the initiation of stabilization measures is precluded by snow cover, stabilization measures shall be initiated as soon as practicable.
 - 2. On areas where construction activity has temporarily ceased and will resume after fourteen (14) days, a temporary stabilization method can be used.

The following stabilization practices will be used for this project:

Preservation of Mature Vegetation	\boxtimes	Erosion Control Blanket / Mulching
Vegetated Buffer Strips		Sodding
Protection of Trees		Geotextiles
Temporary Erosion Control Seeding		Other (specify)
Temporary Turf (Seeding, Class 7)		Other (specify)
Temporary Mulching		Other (specify)
Permanent Seeding		Other (specify)
	Vegetated Buffer Strips Protection of Trees Temporary Erosion Control Seeding Temporary Turf (Seeding, Class 7) Temporary Mulching	Vegetated Buffer Strips Protection of Trees Temporary Erosion Control Seeding Temporary Turf (Seeding, Class 7) Temporary Mulching

Describe how the stabilization practices listed above will be utilized during construction:

The intent of the stabilization practices is to provide temporary or permanent turf as soon as earthwork and topsoil spreading is complete.

Describe how the stabilization practices listed above will be utilized after construction activities have been completed:

Erosion control blanket will decompose within the limits of the permanent turf and will protect the soil from erosion.

C. 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:

Perimeter Erosion Barrier		Rock Outlet Protection
Temporary Ditch Check		Riprap
Storm Drain Inlet Protection		Gabions
Sediment Trap		Slope Mattress
Temporary Pipe Slope Drain	\boxtimes	Retaining Walls
Temporary Sediment Basin		Slope Walls
Temporary Stream Crossing		Concrete Revetment Mats
Stabilized Construction Exits		Level Spreaders
Turf Reinforcement Mats		Other (specify)
Permanent Check Dams		Other (specify)
Permanent Sediment Basin		Other (specify)
Aggregate Ditch		Other (specify)
Paved Ditch		Other (specify)
	Temporary Ditch Check Storm Drain Inlet Protection Sediment Trap Temporary Pipe Slope Drain Temporary Sediment Basin Temporary Stream Crossing Stabilized Construction Exits Turf Reinforcement Mats Permanent Check Dams Permanent Sediment Basin Aggregate Ditch	Temporary Ditch Check Storm Drain Inlet Protection Sediment Trap Temporary Pipe Slope Drain Temporary Sediment Basin Temporary Stream Crossing Stabilized Construction Exits Turf Reinforcement Mats Permanent Check Dams Permanent Sediment Basin Aggregate Ditch

Describe how the structural practices listed above will be utilized during construction:

Perimeter erosion barrier will be used at locations where sediment may escape the right of way. Storm drain inlet Printed 6/3/2015 Page 4 of 9 BDE 2342 (Rev. 3/20/14)

protection is used to trap sediment from the construction zone prior to entering the storm sewer system.

Describe how the structural practices listed above will be utilized after construction activities have been completed:

These items will be removed once construction is complete.

D.	Trea	tment	Chen	nicals
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Will polymer flocculants	or treatment	chemicals	be utilized	on this	project:		Yes	\boxtimes	No
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If yes above, identify where and how polymer flocculants or treatment chemicals will be utilized on this project.

- E. **Permanent Storm Water Management Controls:** Provided below is a description of measures that will be installed during the construction process to control volume and 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.
 - 1. 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 Chapter 41 (Construction Site Storm Water Pollution Control) of the IDOT Bureau of Design and Environment Manual. If practices other than those discussed in Chapter 41 are selected for implementation or if practices are applied to situations different from those covered in Chapter 41, the technical basis for such decisions will be explained below.

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 permanent storm water management controls:

Permanent turf and new pavements will reduce erosion occurring at the raindrop/soil impact. No exposed soil will remain upon completion of the project.

F. 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. 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 the 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:

n/a

- G. Contractor Required Submittals: Prior to conducting any professional services at the site covered by this plan, the Contractor and each subcontractor responsible for compliance with the permit shall submit to the Resident Engineer a Contractor Certification Statement, BDE 2342a.
 - 1. The Contractor shall provide a construction schedule containing an adequate level of detail to show major activities with implementation of pollution prevention BMPs, including the following items:

- Approximate duration of the project, including each stage of the project
- · Rainy season, dry season, and winter shutdown dates
- Temporary stabilization measures to be employed by contract phases
- Mobilization timeframe
- Mass clearing and grubbing/roadside clearing dates
- Deployment of Erosion Control Practices
- Deployment of Sediment Control Practices (including stabilized construction entrances/exits)
- Deployment of Construction Site Management Practices (including concrete washout facilities, chemical storage, refueling locations, etc.)
- Paving, saw-cutting, and any other pavement related operations
- Major planned stockpiling operations
- Timeframe for other significant long-term operations or activities that may plan non-storm water discharges such as dewatering, grinding, etc.
- Permanent stabilization activities for each area of the project
- 2. The Contractor and each subcontractor shall provide, as an attachment to their signed Contractor Certification Statement, a discussion of how they will comply with the requirements of the permit in regard to the following items and provide a graphical representation showing location and type of BMPs to be used when applicable:
 - Vehicle Entrances and Exits Identify type and location of stabilized construction entrances and exits to be used and how they will be maintained.
 - Material Delivery, Storage and Use Discuss where and how materials including chemicals, concrete
 curing compounds, petroleum products, etc. will be stored for this project.
 - Stockpile Management Identify the location of both on-site and off-site stockpiles. Discuss what BMPs will be used to prevent pollution of storm water from stockpiles.
 - Waste Disposal Discuss methods of waste disposal that will be used for this project.
 - Spill Prevention and Control Discuss steps that will be taken in the event of a material spill (chemicals, concrete curing compounds, petroleum, etc.)
 - Concrete Residuals and Washout Wastes Discuss the location and type of concrete washout facilities
 to be used on this project and how they will be signed and maintained.
 - Litter Management Discuss how litter will be maintained for this project (education of employees, number of dumpsters, frequency of dumpster pick-up, etc.).
 - Vehicle and Equipment Fueling Identify equipment fueling locations for this project and what BMPs will be used to ensure containment and spill prevention.
 - Vehicle and Equipment Cleaning and Maintenance Identify where equipment cleaning and maintenance locations for this project and what BMPs will be used to ensure containment and spill prevention.
 - Dewatering Activities Identify the controls which will be used during dewatering operations to ensure sediments will not leave the construction site.
 - Polymer Flocculants and Treatment Chemicals Identify the use and dosage of treatment chemicals and provide the Resident Engineer with Material Safety Data Sheets. Describe procedures on how the chemicals will be used and identify who will be responsible for the use and application of these chemicals. The selected individual must be trained on the established procedures.
 - Additional measures indicated in the plan.

III. Maintenance:

When requested by the Contractor, the Resident Engineer will provide general maintenance guides to the Contractor for the practices associated with this project. The following additional procedures 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. It will be the Contractor's responsibility to attain maintenance guidelines for any manufactured BMPs which are to be installed and maintained per manufacture's specifications.

Confirm temporary erosion control methods are used within 14 days of completion of disturbed soil areas.

Note any changes to the erosion control plan on the Erosion Control and Seeding Plans.

Once permanent turf is established and pavements are open for traffic, remove temporary systems.

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 using IDOT Storm Water Pollution Prevention Plan Erosion Control Inspection Report (BC 2259). Such inspections shall be conducted at least once every seven (7) calendar days and within twenty-four (24) hours of the end of a storm or by the end of the following business or work day that is 0.5 inch or greater or equivalent snowfall.

Inspections may be reduced to once per month when construction activities have ceased due to frozen conditions. Weekly inspections will recommence when construction activities are conducted, or if there is 0.5" or greater rain event, or a discharge due to snowmelt occurs.

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 notify the appropriate IEPA Field Operations Section office by email at: epa.swnoncomp@illinois.gov, telephone or fax within twenty-four (24) hours of the incident. The Resident Engineer shall then complete and submit an "Incidence of Non-Compliance" (ION) report for the identified violation within five (5) days of the incident. The Resident Engineer shall use forms provided by IEPA 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 non-compliance shall be signed by a responsible authority in accordance with Part VI. G of the Permit ILR10.

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

Additional Inspections Required:

None noted

V. Failure to Comply:

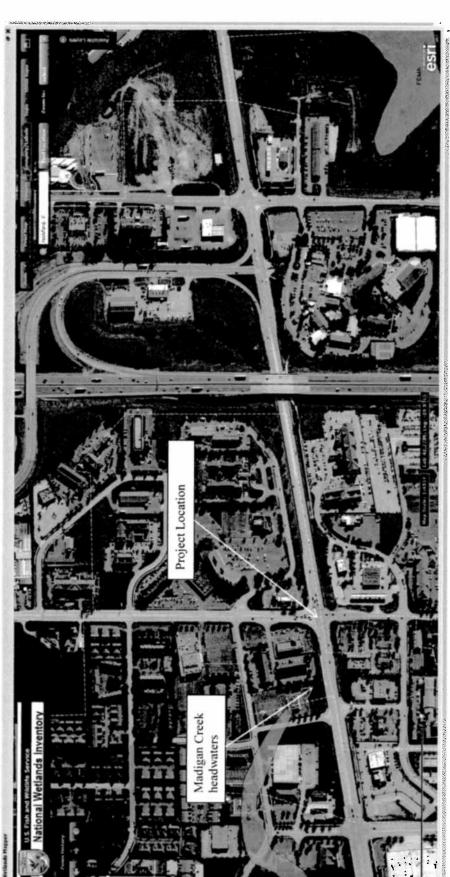
Failure to comply with any provisions of this Storm Water Pollution Prevention Plan will result in the implementation of a National Pollutant Discharge Elimination System/Erosion and Sediment Control Deficiency Deduction against the Contractor and/or penalties under the Permit ILR10 which could be passed on to the Contractor.



Contractor Certification Statement

Prior to conducting any professional services at the site covered by this contract, the Contractor and every subcontractor must complete and return to the Resident Engineer the following certification. A separate certification must be submitted by each firm. Attach to this certification all items required by Section II.G of the Storm Water Pollution Prevention Plan (SWPPP) which will be handled by the Contractor/subcontractor completing this form.

Route	FAU 5149	Marked Rte.	Bell School Road
Section	04-00345-00-CH	Project No.	M-5099 (112)
County	Winnebago	Contract No.	85616
Permit Not I certify us associate In addition project; I	ification statement is a part of SWPPP for the proposed in ILR10 issued by the Illinois Environmental Protect ander penalty of law that I understand the terms of the with industrial activity from the construction site iden, I have read and understand all of the information have received copies of all appropriate maintenance ompliance with the Permit ILR10 and SWPPP and we	tion Agency. The Permit No. ILI Ilentified as part of The and requirements and requirements.	R 10 that authorizes the storm water discharges of this certification. ents stated in SWPPP for the above mentioned and, I have provided all documentation required
☐ Cont	tractor		
☐ Sub-	Contractor		
	Print Name		Signature
***************************************	Title		Date
	Name of Firm	4.4	Telephone
***************************************	Street Address		City/State/ZIP
Items whi	ch this Contractor/subcontractor will be responsible	for as required in	n Section II.G. of SWPPP:
Arribaki muyan di kadiya da da girin da karibaki Arribaki Arribaki Arribaki Arribaki Arribaki Arribaki Arribak			



Project Location and Madigan Creek Headwaters.

PRECAST MODULAR RETAINING WALL

Effective: March 19, 2001 Revised: December 29, 2014

<u>Description</u>. This work shall consist of preparing the design, furnishing the materials, and constructing the precast modular retaining walls to the lines, grades and dimensions shown in the contract plans and as directed by the Engineer.

<u>General</u>. The precast modular wall shall consist of precast concrete modules, select fill and a leveling pad. The precast concrete modules shall be sized to have sufficient external stability resistance at each module course to satisfy the design criteria. The material, fabrication and construction shall comply with this Special Provision and the requirements specified by the supplier of the wall system selected by the Contractor for use on the project.

<u>Suppliers.</u> The Department maintains a pre-qualified list of proprietary structural systems allowed for precast modular retaining walls. This list can be found on the Departments web site under Prequalified Structural Systems. The Contractor's options are limited to those systems pre-qualified by the Department. These systems have been reviewed for structural feasibility and adequacy only. Presence on this list shall in no case relieve the Contractor of the site specific design or QC/QA requirements stated herein.

<u>Submittals.</u> The wall system supplier shall submit complete design calculations and shop drawings to the Engineer according to Article 1042.03(b) of the Standard Specifications no later than 90 days prior to beginning construction of the wall. No work or ordering of materials for the structure shall be done by the Contractor until the submittal has been approved in writing by the Engineer. All submittals shall be sealed by a Illinois Licensed Structural Engineer and shall include all details, dimensions, quantities and cross sections necessary to construct the wall and shall include, but not be limited to, the following items:

- (a) Plan, elevation and cross section sheet(s) for each wall showing the following:
 - (1) A plan view of the wall indicating the offsets from the construction centerline to the face of the wall at all changes in horizontal alignment. The plan view shall show the limits of precast modules and stations where changes in length and/or size of modules occur. The centerline shall be shown for all drainage structures or pipes behind or passing through and/or under the wall.
 - (2) An elevation view of the wall indicating the elevations of the top of the modules. These elevations shall be at or above the top of exposed module line shown on the contract plans. This view shall show the elevations of the top of the leveling pads, all steps in the leveling pads and the finished grade line shown in the contract plans. Each module type, size and embeded length shall be designated.
 - (3) A listing of the summary of quantities shall be provided on the elevation sheet of each wall.

- (4) Typical cross section(s) showing the precast modules, select fill within the modules, porous granular backfill, leveling pad, right-of-way limits, including excavation cut slopes and elevation relationship between existing ground conditions and the finished grade line.
- (5) All general notes required for constructing the wall as well as the locations of lifting devices and/or support points in the precast modules shall be indicated.
- (b) The leveling pads may be precast or cast in place concrete, or compacted coarse aggregate. All details for the leveling pads, including the steps, shall be shown. The top of the leveling pad shall be located at or below the theoretical top of the leveling pad line shown on the contract plans. The theoretical top of leveling pad line shall be 3.5 ft.(1.1 m) below finished grade line at the front face of the wall, unless otherwise shown on the contract plans.
- (c) Where concrete coping or barrier is specified, the modules shall extend up into the coping or barrier a minimum of 2 in. (50 mm). The top of the modules may be level or sloped to satisfy the top of module line shown on the contract plans. Cast-in-place concrete will not be an acceptable replacement for module areas below the top of module line. Precast coping may be substituted for the CIP coping if approved by the Engineer.
- (d) All module types shall be detailed. The details shall show all dimensions necessary to cast and construct each type of module, all reinforcing steel in the module, and the location of any shear key or connection devices.
- (e) All details of the wall module placement around all appurtenances located behind, on top of, or passing through the wall modules and select fill such as traffic barriers, coping, foundations, and utilities etc. shall be clearly indicated. Any modifications to the design of these appurtenances to accommodate a particular system shall also be submitted.
- (f) When specified on the contract plans, all details of architectural treatment for the exposed surfaces of the module, including color, texture and form liners shall be shown.
- (g) The details of bearing pads, joint filler or other materials used to prevent concrete to concrete contact on the front face as well as any pins, groves or other alignment mechanisms shall be indicated.

The initial submittal shall include three sets of shop drawings and one set of calculations. One set of drawings will be returned to the Contractor with any corrections indicated. After approval, the Contractor shall furnish the Engineer with eight sets of corrected prints and one mylar set for distribution by the Department. No work or ordering of materials for the structure shall be done until the submittal has been approved by the Engineer.

<u>Materials.</u> The precast modular retaining walls shall conform to the supplier's standards as previously approved by the Department, AASHTO Specifications for prefabricated modular walls and the following:

- (a) Steel connection hardware shall be galvanized according to AASHTO M 232 or AASHTO M 111 as applicable.
- (b) All precast modules shall be manufactured with Class PC concrete according to Section 504, Article 1042.02, Article 1042.03, and the following requirements:
 - (1) The minimum panel thickness shall be 3 1/2 in. (90 mm).
 - (2) The minimum reinforcement bar cover shall be 1 1/2 in. (38 mm).
 - (3) All dimensions shall be within 3/16 in. (5 mm).
 - (4) Angular distortion with regard to the height of the panel shall not exceed 0.2 in. (5 mm) in 5 ft. (1.5 m).
 - (5) Surface defects on formed surfaces measured on a length of 5 ft. (1.5 m) shall not be more than 0.1 in. (2.5 mm).

Concrete surfaces exposed to view in the completed wall shall be finished according to Article 503.15(a) of the Standard Specifications.

- (c) Reinforcing steel shall be according to Article 1006.10(a)(2). Welded steel wire fabric for concrete reinforcement shall be according to Article 1006.10(b)(1) except the welded wire fabric shall be epoxy coated according to ASTM A884.
- (d) Soil Reinforcement: If soil reinforcement is required by the approved design, the Contractor shall submit a manufacturer's certification for the soil reinforcement properties which equals or exceeds those required in the design computations. The soil reinforcement shall be manufactured from high density polyethylene (HDPE) uniaxial or polypropylene biaxial resins or high tenacity polyester fibers with a PVC coating, stored between -20 and 140° F (-29 and 60° C). The following standards shall be used in determining and demonstrating the soil reinforcement capacities:

ASTM D638 Test Method for Tensile Properties of Plastic

ASTM D1248 Specification for Polyethylene Plastics Molding and Extrusion Materials

ASTM D4218 Test Method for Carbon Black Content in Polyethylene Compounds

ASTM D5262 Test Method for Evaluating the Unconfined Tension Creep Behavior of Geosynthetics

GG1-Standard Test Method for Geogrid Rib Tensile Strength

GG2-Standard Test Method for Geogrid Junction Strength

GG4-Standard Practice for Determination of the Long Term Design Strength of Geogrid

GG5-Standard Practice for Evaluating Geogrid Pullout Behavior

- (e) The select fill, defined as the material placed in the reinforced volume behind the wall or within the precast modules, shall be according to Sections 1003 and 1004 of the Standard Specifications and the following:
 - (1) Select Fill Gradation. Either a coarse aggregate or a fine aggregate may be used. For coarse aggregate, gradations CA 6 thru CA 16 may be used. For fine aggregate, gradations FA 1, FA 2, or FA 20 may be used.
 - (2) Select Fill Quality. The coarse or fine aggregate shall have a maximum sodium sulfate (Na₂SO₄) loss of 15 percent according to Illinois Modified AASHTO T 104.
 - (3) Select Fill Internal Friction Angle. The effective internal friction angle for the coarse or fine aggregate shall be a minimum 34 degrees according to AASHTO T 236 on samples compacted to 95 percent density according to Illinois Modified AASHTO T 99. The AASHTO T 296 test with pore pressure measurement may be used in lieu of AASHTO T 236. If the vendor's design uses a friction angle higher than 34 degrees, as indicated on the approved shop drawings, this higher value shall be taken as the minimum required.
 - (4) Select Fill and Geosynthetic Reinforcing. When geosynthetic reinforcing is used, the select fill pH shall be 4.5 to 9.0 according to Illinois Modified AASHTO T 289.
 - (5) Test Frequency. Prior to start of construction, the Contractor shall provide an internal friction angle and pH test results to show the select fill material meets the specification requirement. However, the pH will be required only when geosynthetic reinforcing is used. This test result shall be no more than 12 months old. In addition, a sample of select fill material will be obtained for testing and approval by the Department. Thereafter, the minimum frequency of sampling and testing at the jobsite will be one per 40,000 tons (36,300 metric tons) of select fill. Testing to verify the internal friction angle will be required when the wall design utilizes a minimum effective internal friction angle greater than 34 degrees, or when crushed coarse aggregate is not used.
- (f) The embankment material behind the precast modules or behind the reinforced volume of select fill shall be according to Section 202 and/or Section 204. An embankment unit weight of 120 lbs/cubic foot (1921 kg/cubic meter) and an effective friction angle of 30 degrees shall be used in the wall system design, unless otherwise indicated on the plans.
- (g) The geotextile filter material used across the module joints shall be either a non-woven needle punch polyester or polypropylene or a woven monofilament polypropylene.
- (h) The bearing pads shall be rubber, neoprene, polyvinyl chloride, or polyethylene material of the type and grade as recommended by the wall supplier. Other material recommended by the wall supplier may be used if approved by the Engineer.

(i) Leveling pad: The material shall be either Class SI concrete according to Article 1020.04 or compacted coarse aggregate according to Articles 1004.04, (a) and (b). The compacted coarse aggregate gradation shall be CA 6 or CA 10.

Design Criteria. The design shall be according to the AASHTO LRFD Design Specifications for Prefabricated Modular Walls except as modified herein. The wall supplier shall be responsible for all stability aspects of the wall design (including sliding, overturning, and bearing pressure). The analyses of settlement and overall slope stability will be the responsibility of the Department.

Typical design procedures and details, once accepted by the Department, shall be followed. All wall system changes shall be submitted in advance to the Department for approval.

External loads, such as those applied through structure foundations, from traffic or railroads, slope surcharge etc., shall be accounted for in the external stability design. The presence of all appurtenances behind, in front of, mounted upon, or passing through the wall volume such as drainage structures, utilities, structure foundation elements or other items shall be accounted for in the external stability design of the wall.

Coulomb's lateral earth pressure theory shall be used to calculate the vertical and horizontal forces acting on the rear face of the precast modules.

The overturning calculations shall assume no more than 80 percent of the soil dead load within the precast modules available to resist overturning forces. Sliding calculations shall consider sliding both between each element and of the bottom element across the foundation soils.

The maximum applied equivalent uniform bearing pressure under each module width shall be clearly indicated on the shop drawings submitted and shall be less than the allowable bearing pressure of the soil shown on the contract plans. Footings or other treatments to satisfy the bearing pressure requirements will be designed by the wall supplier and included in the wall bid price.

If the wall supplier needs additional information to complete the design, the Contractor shall be responsible for obtaining the information at no additional cost to the Department.

<u>Construction Requirements.</u> The Contractor shall obtain technical assistance from the supplier during wall erection to demonstrate proper construction procedures and shall include any costs related to this technical assistance in the unit price bid for this item.

The foundation soils for the structure shall be graded for a width equal to or exceeding the module width. Prior to wall construction, the foundation shall be compacted with a smooth wheel vibratory roller. Any foundation soils found to be unsuitable shall be removed and replaced, as directed by the Engineer, and shall be paid for separately according to Section 202 of the Standard Specifications.

The modules may not be loaded or shipped to the project site until they have obtained a minimum compressive strength of 3500 psi (24 MPa) and no sooner than seven days after casting. Precast modules shall be lifted and supported at the points indicated on the shop plans. They shall be stored off the ground. Stacked modules shall be separated by battens across the full width of each bearing point as recommended by the supplier to prevent concrete to concrete contact.

The first course of modules must be erected with particular care and adjustment as required to in correct the vertical, horizontal and transverse alignment. Poor alignment of the base course will magnify tolerance problems in upper modules and require dismantling and re-erection of the wall. A ¼ in. (6 mm) minimum and ¾ in. (18 mm) maximum joint separation shall be provided between adjacent modules at the face to prevent direct concrete to concrete contact. Vertical tolerances and horizontal alignment tolerances shall not exceed 3/4 in. (19 mm) when measured along a 10 ft. (3 m) straight edge. The overall vertical tolerance of the wall, (plumbness from top to bottom) shall not exceed 1/2 in. per 10 ft. (13 mm per 3 m) of wall height.

The rear face of all vertical and horizontal module joints shall be covered by a geotextile filter fabric, per the wall supplier's recommendations. No adhesive will be allowed on this material directly over the joints to maintain fabric permeability. The minimum fabric width shall be 12 in. (300 mm) and where laps must be used, a non-sewn lap of 6 in. (150 mm) shall be used as a minimum.

The select fill and embankment placement shall closely follow the erection of each lift of modules. The maximum lift thickness shall be placed according to the supplier's recommended procedures except, the lifts shall not exceed 10 in. (255 mm) loose measurement or as approved by the Engineer.

At the end of each day's operations, the Contractor shall shape the last level of select fill to permit runoff of rainwater away from the wall face. Select fill shall be compacted according to the project specifications for embankment except the minimum required compaction shall be 95 percent of maximum density as determined by AASHTO T 99. The Engineer will perform one density test per 5000 cu yd (3800 cu m) and not less than one test per 2 ft (0.6 m) of lift.

Method of Measurement. Precast Modular Retaining Wall will be measured for payment in square feet (square meters). The retaining wall will be measured from the "top of exposed module line" to the theoretical top of leveling pad line for the length of the wall as shown on the contract plans.

<u>Basis of Payment.</u> This work, including furnishing and placement of the precast modules, select fill, joint separation material, geotextile and other accessories will be paid for at the contract unit price per square foot (square meter) for PRECAST MODULAR RETAINING WALL.

Embankment placed outside of the select fill volume will be measured and paid for according to Section 207 of the Standard Specifications.

Concrete coping when specified on the contract plans shall be included for payment in this work.

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:

The entities listed above and their officers, employees, and agents shall be indemnified and held harmless in accordance with Article 107.26.



Transportation Bureau of Local Roads and Streets SPECIAL PROVISION FOR CONSTRUCTION AND MAINTENANCE SIGNS

State of Illinois Department of

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" x48") 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.



COARSE AGGREGATE QUALITY (BDE)

Effective: July 1, 2015

Revise Article 1004.01(b) of the Standard Specifications to read:

"(b) Quality. The coarse aggregate shall be according to the quality standards listed in the following table.

COARSE AGGREGATE QUALITY						
QUALITY TEST CLASS						
	Α	В	С	D		
Na ₂ SO ₄ Soundness 5 Cycle, ITP 104 ^{1/} , % Loss max.	15	15	20	25 ^{2/}		
Los Angeles Abrasion, ITP 96 ^{11/} , % Loss max.	40 3/	40 4/	40 5/	45		
Minus No. 200 (75 µm) Sieve Material, ITP 11	1.0 6/		2.5 7/	300 Ann Age		
Deleterious Materials 10/						
Shale, % max.	1.0	2.0	4.0 8/			
Clay Lumps, % max.	0.25	0.5	0.5 8/			
Coal & Lignite, % max.	0.25					
Soft & Unsound Fragments, % max.	4.0	6.0	8.0 8/			
Other Deleterious, % max.	4.0 ^{9/}	2.0	2.0 8/			
Total Deleterious, % max.	5.0	6.0	10.0 8/			
Oil-Stained Aggregate ^{10/} , % max	5.0	***				

- 1/ Does not apply to crushed concrete.
- 2/ For aggregate surface course and aggregate shoulders, the maximum percent loss shall be 30.
- 3/ For portland cement concrete, the maximum percent loss shall be 45.
- 4/ Does not apply to crushed slag or crushed steel slag.
- 5/ For hot-mix asphalt (HMA) binder mixtures, except when used as surface course, the maximum percent loss shall be 45.
- 6/ For crushed aggregate, if the material finer than the No. 200 (75 μ m) sieve consists of the dust from fracture, essentially free from clay or silt, this percentage may be increased to 2.5.

- 7/ Does not apply to aggregates for HMA binder mixtures.
- 8/ Does not apply to Class A seal and cover coats.
- 9/ Includes deleterious chert. In gravel and crushed gravel aggregate, deleterious chert shall be the lightweight fraction separated in a 2.35 heavy media separation. In crushed stone aggregate, deleterious chert shall be the lightweight fraction separated in a 2.55 heavy media separation. Tests shall be run according to ITP 113.
- 10/ Test shall be run according to ITP 203.
- 11/ Does not apply to crushed slag.

All varieties of chert contained in gravel coarse aggregate for portland cement concrete, whether crushed or uncrushed, pure or impure, and irrespective of color, will be classed as chert and shall not be present in the total aggregate in excess of 25 percent by weight (mass).

Aggregates used in Class BS concrete (except when poured on subgrade), Class PS concrete, and Class PC concrete (bridge superstructure products only, excluding the approach slab) shall contain no more than two percent by weight (mass) of deleterious materials. Deleterious materials shall include substances whose disintegration is accompanied by an increase in volume which may cause spalling of the concrete."

80360

CONCRETE GUTTER, CURB, MEDIAN, AND PAVED DITCH (BDE)

Effective: April 1, 2014 Revised: August 1, 2014

Add the following to Article 606.02 of the Standard Specifications:

Revise the fifth paragraph of Article 606.07 of the Standard Specifications to read:

"Transverse contraction and longitudinal construction joints shall be sealed according to Article 420.12, except transverse joints in concrete curb and gutter shall be sealed with polysulfide or polyurethane joint sealant."

Add the following to Section 1050 of the Standard Specifications:

"1050.04 Polyurethane Joint Sealant. The joint sealant shall be a polyurethane sealant, Type S, Grade NS, Class 25 or better, Use T (T_1 or T_2), according to ASTM C 920."

80334

CONTRACT CLAIMS (BDE)

Effective: April 1, 2014

Revise the first paragraph of Article 109.09(a) of the Standard Specifications to read:

"(a) Submission of Claim. All claims filed by the Contractor shall be in writing and in sufficient detail to enable the Department to ascertain the basis and amount of the claim. As a minimum, the following information must accompany each claim submitted."

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

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

Level I Engineer of Construction

Level II Chief Engineer/Director of Highways or Designee

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

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

80335

DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION (BDE)

Effective: September 1, 2000 Revised: January 2, 2015

<u>FEDERAL OBLIGATION</u>. 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.

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.

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

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

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

OVERALL GOAL SET FOR THE DEPARTMENT. As a requirement of compliance with 49 CFR Part 26, the Department has set an overall goal for DBE participation in its federally assisted contracts. That goal applies to all federal-aid funds the Department will expend in its federally assisted contracts for the subject reporting fiscal year. The Department is required to make a

good faith effort to achieve the overall goal. The dollar amount paid to all approved DBE companies performing work called for in this contract is eligible to be credited toward fulfillment of the Department's overall goal.

CONTRACT GOAL TO BE ACHIEVED BY THE CONTRACTOR. This contract includes a specific DBE utilization goal established by the Department. The goal has been included because the Department has determined that the work of this contract has subcontracting opportunities that may be suitable for performance by DBE companies. The determination is based on an assessment of the type of work, the location of the work, and the availability of DBE companies to do a part of the work. The assessment indicates that, in the absence of unlawful discrimination, and in an arena of fair and open competition, DBE companies can be expected to perform

% of the work. This percentage is set as the DBE participation goal for this contract. Consequently, in addition to the other award criteria established for this contract, the Department will only award this contract to a bidder who makes a good faith effort to meet this goal of DBE participation in the performance of the work. A bidder makes a good faith effort for award consideration if either of the following is done in accordance with the procedures set for in this Special Provision:

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

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

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

- (a) The bidder shall submit a Disadvantaged Business Utilization Plan on Department forms SBE 2025 and 2026 with the bid.
- (b) The Utilization Plan shall indicate that the bidder either has obtained sufficient DBE participation commitments to meet the contract goal or has not obtained enough DBE participation commitments in spite of a good faith effort to meet the goal. The Utilization Plan shall further provide the name, telephone number, and telefax number of a responsible official of the bidder designated for purposes of notification of plan approval or disapproval under the procedures of this Special Provision.

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

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

efforts that the bidder has made. Mere *pro forma* efforts, in other words, efforts done as a matter of form, are not good faith efforts; rather, the bidder is expected to have taken genuine efforts that would be reasonably expected of a bidder actively and aggressively trying to obtain DBE participation sufficient to meet the contract goal.

- (a) The following is a list of types of action that the Department will consider as part of the evaluation of the bidder's good faith efforts to obtain participation. These listed factors are not intended to be a mandatory checklist and are not intended to be exhaustive. Other factors or efforts brought to the attention of the Department may be relevant in appropriate cases, and will be considered by the Department.
 - (1) Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBE companies that have the capability to perform the work of the contract. The bidder must solicit this interest within sufficient time to allow the DBE companies to respond to the solicitation. The bidder must determine with certainty if the DBE companies are interested by taking appropriate steps to follow up initial solicitations.
 - (2) Selecting portions of the work to be performed by DBE companies in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the prime Contractor might otherwise prefer to perform these work items with its own forces.
 - (3) Providing interested DBE companies with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.
 - (4) a. Negotiating in good faith with interested DBE companies. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBE companies that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBE companies to perform the work.
 - b. A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBE companies is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also the ability or desire of a bidder to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith

efforts. Bidders are not, however, required to accept higher quotes from DBE companies if the price difference is excessive or unreasonable. In accordance with Section 6 of the above Bidding Procedures, the documentation of good faith efforts must include copies of each DBE and non-DBE subcontractor quote submitted to the bidder when a non-DBE subcontractor was selected over a DBE for work on the contract.

- (5) Not rejecting DBE companies as being unqualified without sound reasons based on a thorough investigation of their capabilities. The bidder's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the bidder's efforts to meet the project goal.
- (6) Making efforts to assist interested DBE companies in obtaining bonding, lines of credit, or insurance as required by the recipient or Contractor.
- (7) Making efforts to assist interested DBE companies in obtaining necessary equipment, supplies, materials, or related assistance or services.
- (8) Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, state, and federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBE companies.
- (b) If the Department determines that the apparent successful bidder has made a good faith effort to secure the work commitment of DBE companies to meet the contract goal, the Department will award the contract provided that it is otherwise eligible for award. If the Department determines that the bidder has failed to meet the requirements of this Special Provision or that a good faith effort has not been made, the Department will notify the responsible company official designated in the Utilization Plan that the bid is not responsive. The notification shall include a statement of reasons for the determination.
- (c) The bidder may request administrative reconsideration of a determination adverse to the bidder within the five working days after the receipt of the notification date of the determination by delivering the request to the Department of Transportation, Bureau of Small Business Enterprises, Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764 (Telefax: (217) 785-1524). Deposit of the request in the United States mail on or before the fifth business day shall not be deemed delivery. The determination shall become final if a request is not made and delivered. A request may provide additional written documentation or argument concerning the issues raised in the determination statement of reasons, provided the documentation and arguments address efforts made prior to submitting the bid. The request will be forwarded to the Department's Reconsideration Officer. The Reconsideration Officer will extend an opportunity to the bidder to meet in person in

order to consider all issues of documentation and whether the bidder made a good faith effort to meet the goal. After the review by the Reconsideration Officer, the bidder will be sent a written decision within ten working days after receipt of the request for consideration, explaining the basis for finding that the bidder did or did not meet the goal or make adequate good faith efforts to do so. A final decision by the Reconsideration Officer that a good faith effort was made shall approve the Utilization Plan submitted by the bidder and shall clear the contract for award. A final decision that a good faith effort was not made shall render the bid not responsive.

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

- (a) DBE as the Contractor: 100 percent goal credit for that portion of the work performed by the DBE's own forces, including the cost of materials and supplies. Work that a DBE subcontracts to a non-DBE does not count toward the DBE goals.
- (b) DBE as a joint venture Contractor: 100 percent goal credit for that portion of the total dollar value of the contract equal to the distinct, clearly defined portion of the work performed by the DBE's own forces.
- (c) DBE as a subcontractor: 100 percent goal credit for the work of the subcontract performed by the DBE's own forces, including the cost of materials and supplies, excluding the purchase of materials and supplies or the lease of equipment by the DBE subcontractor from the prime Contractor or its affiliates. Work that a DBE subcontractor in turn subcontracts to a non-DBE does not count toward the DBE goal.
- (d) DBE as a trucker: 100 percent goal credit for trucking participation provided the DBE is responsible for the management and supervision of the entire trucking operation for which it is responsible. At least one truck owned, operated, licensed, and insured by the DBE must be used on the contract. Credit will be given for the following:
 - (1) The DBE may lease trucks from another DBE firm, including an owner-operator who is certified as a DBE. The DBE who leases trucks from another DBE receives credit for the total value of the transportation services the lessee DBE provides on the contract.

(2) The DBE may also lease trucks from a non-DBE firm, including from an owner-operator. The DBE who leases trucks from a non-DBE is entitled to credit only for the fee or commission is receives as a result of the lease arrangement.

(e) DBE as a material supplier:

- (1) 60 percent goal credit for the cost of the materials or supplies purchased from a DBE regular dealer.
- (2) 100 percent goal credit for the cost of materials of supplies obtained from a DBE manufacturer.
- (3) 100 percent credit for the value of reasonable fees and commissions for the procurement of materials and supplies if not a regular dealer or manufacturer.

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

- (a) <u>NO AMENDMENT</u>. 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) <u>CHANGES TO WORK</u>. Any deviation from the DBE condition-of-award or contract plans, specifications, or special provisions must be approved, in writing, by the Department as provided elsewhere in the Contract. The Contractor shall notify affected DBEs in writing of any changes in the scope of work which result in a reduction in the dollar amount condition-of-award to the contract. Where the revision includes work committed to a new DBE subcontractor, not previously involved in the project, then a Request for Approval of Subcontractor, Department form BC 260A, must be signed and submitted. If the commitment of work is in the form of additional tasks assigned to an existing subcontract, than a new Request for Approval of Subcontractor shall not be

required. However, the Contractor must document efforts to assure that the existing DBE subcontractor is capable of performing the additional work and has agreed in writing to the change.

- (c) <u>SUBCONTRACT</u>. The Contractor must provide DBE subcontracts to IDOT upon request. Subcontractors shall ensure that all lower tier subcontracts or agreements with DBEs to supply labor or materials be performed in accordance with this Special Provision.
- (d) <u>ALTERNATIVE WORK METHODS</u>. In addition to the above requirements for reductions in the condition of award, additional requirements apply to the two cases of Contractorinitiated work substitution proposals. Where the contract allows alternate work methods which serve to delete or create underruns in condition of award DBE work, and the Contractor selects that alternate method or, where the Contractor proposes a substitute work method or material that serves to diminish or delete work committed to a DBE and replace it with other work, then the Contractor must demonstrate one of the following:
 - That the replacement work will be performed by the same DBE (as long as the DBE is certified in the respective item of work) in a modification of the condition of award;
 - (2) That the DBE is aware that its work will be deleted or will experience underruns and has agreed in writing to the change. If this occurs, the Contractor shall substitute other work of equivalent value to a certified DBE or provide documentation of good faith efforts to do so; or
 - (3) That the DBE is not capable of performing the replacement work or has declined to perform the work at a reasonable competitive price. If this occurs, the Contractor shall substitute other work of equivalent value to a certified DBE or provide documentation of good faith efforts to do so.
- (e) TERMINATION AND REPLACEMENT PROCEDURES. The Contractor shall not terminate or replace a DBE listed on the approved Utilization Plan, or perform with other forces work designated for a listed DBE except as provided in this Special Provision. The Contractor shall utilize the specific DBEs listed to perform the work and supply the materials for which each is listed unless the Contractor obtains the Department's written consent as provided in subsection (a). Unless Department consent is provided for termination of a DBE subcontractor, the Contractor shall not be entitled to any payment for work or material unless it is performed or supplied by the DBE listed in the Utilization Plan.

As stated above, the Contractor shall not terminate or replace a DBE subcontractor listed in the approved Utilization Plan without prior written consent. This includes, but is not limited to, instances in which the Contractor seeks to perform work originally designated for a DBE subcontractor with its own forces or those of an affiliate, a non-DBE firm, or with another DBE firm. Written consent will be granted only if the Bureau of

Small Business Enterprises agrees, for reasons stated in its concurrence document, that the Contractor has good cause to terminate or replace the DBE firm. Before transmitting to the Bureau of Small Business Enterprises any request to terminate and/or substitute a DBE subcontractor, the Contractor shall give notice in writing to the DBE subcontractor, with a copy to the Bureau, of its intent to request to terminate and/or substitute, and the reason for the request. The Contractor shall give the DBE five days to respond to the Contractor's notice. The DBE so notified shall advise the Bureau and the Contractor of the reasons, if any, why it objects to the proposed termination of its subcontract and why the Bureau should not approve the Contractor's action. If required in a particular case as a matter of public necessity, the Bureau may provide a response period shorter than five days.

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

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

Contractor can self-perform the work for which the DBE contractor was engaged or so that the prime Contractor can substitute another DBE or non-DBE contractor after contract award.

When a DBE is terminated, or fails to complete its work on the Contract for any reason the Contractor shall make a good faith effort to find another DBE to substitute for the original DBE to perform at least the same amount of work under the contract as the terminated DBE to the extent needed to meet the established Contract goal. The good faith efforts shall be documented by the Contractor. If the Department requests documentation under this provision, the Contractor shall submit the documentation within seven days, which may be extended for an additional seven days if necessary at the request of the Contractor. The Department shall provide a written determination to the Contractor stating whether or not good faith efforts have been demonstrated.

- (f) PAYMENT RECORDS. The Contractor shall maintain a record of payments for work performed to the DBE participants. The records shall be made available to the Department for inspection upon request. After the performance of the final item of work or delivery of material by a DBE and final payment therefore to the DBE by the Contractor, but not later than thirty calendar days after payment has been made by the Department to the Contractor for such work or material, the Contractor shall submit a DBE Payment Agreement on Department form SBE 2115 to the Regional Engineer. If full and final payment has not been made to the DBE, the DBE Payment Agreement shall indicate whether a disagreement as to the payment required exists between the Contractor and the DBE or if the Contractor believes that the work has not been satisfactorily completed. If the Contractor does not have the full amount of work indicated in the Utilization Plan performed by the DBE companies indicated in the Utilization Plan and after good faith efforts are reviewed, the Department may deduct from contract payments to the Contractor the amount of the goal not achieved as liquidated and ascertained damages. The Contractor may request an administrative reconsideration of any amount deducted as damages pursuant to subsection (h) of this part.
- (g) ENFORCEMENT. The Department reserves the right to withhold payment to the Contractor to enforce the provisions of this Special Provision. Final payment shall not be made on the contract until such time as the Contractor submits sufficient documentation demonstrating achievement of the goal in accordance with this Special Provision or after liquidated damages have been determined and collected.
- (h) <u>RECONSIDERATION</u>. Notwithstanding any other provision of the contract, including but not limited to Article 109.09 of the Standard Specifications, the Contractor my 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.

EQUAL EMPLOYMENT OPPORTUNITY (BDE)

Effective: April 1, 2015

<u>FEDERAL AID CONTRACTS</u>. Revise the following section of Check Sheet #1 of the Recurring Special Provisions to read:

"EQUAL EMPLOYMENT OPPORTUNITY

In the event of the Contractor's noncompliance with the provisions of this Equal Employment Opportunity Clause, the Illinois Human Rights Act, or the Illinois Department of Human Rights Rules and Regulations, the Contractor may be declared ineligible for future contracts or subcontracts with the State of Illinois or any of its political sub-divisions or municipal corporations, and the contract may be cancelled or voided in whole or in part, and such other sanctions or penalties may be imposed or remedies invoked as provided by statute or regulation.

During the performance of this Contract, the Contractor agrees as follows:

- (1) That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, marital status, order of protection status, national origin or ancestry, citizenship status, age, physical or mental disability unrelated to ability, military status, or an unfavorable discharge from military service; and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.
- (2) That, if it hires additional employees in order to perform this contract or any portion hereof, it will determine the availability (according to the Illinois Department of Human Rights Rules and Regulations) of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.
- (3) That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, sexual orientation, marital status, order of protection status, national origin or ancestry, citizenship status, age, physical or mental disability unrelated to ability, military status or an unfavorable discharge from military service.
- (4) That it will send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the Contractor's obligations under the Illinois Human Rights Act and the Illinois Department of Human Rights Rules and Regulations. If any labor organization or representative fails or refuses to cooperate with the Contractor in its efforts to comply with such Act and Rules and Regulations, the

Contractor will promptly so notify the Illinois Department of Human Rights and IDOT and will recruit employees from other sources when necessary to fulfill its obligations thereunder.

- (5) That it will submit reports as required by the Illinois Department of Human Rights Rules and Regulations, furnish all relevant information as may from time to time be requested by the Illinois Department of Human Rights or IDOT, and in all respects comply with the Illinois Human Rights Act and the Illinois Department of Human Rights Rules and Regulations.
- (6) That it will permit access to all relevant books, records, accounts, and work sites by personnel of IDOT and the Illinois Department of Human Rights for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Illinois Department of Human Rights Rules and Regulations.
- (7) That it will include verbatim or by reference the provisions of this clause in every subcontract it awards under which any portion of the contract obligations are undertaken or assumed, so that the provisions will be binding upon the subcontractor. In the same manner as with other provisions of this contract, the Contractor will be liable for compliance with applicable provisions of this clause by subcontractors; and further it will promptly notify IDOT and the Illinois Department of Human Rights in the event any subcontractor fails or refuses to comply with these provisions. In addition, the Contractor will not utilize any subcontractor declared by the Illinois Human Rights Commission to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations."

 $\underline{\sf STATE\ CONTRACTS}.$ Revise Section II of Check Sheet #5 of the Recurring Special Provisions to read:

"II. EQUAL EMPLOYMENT OPPORTUNITY

In the event of the Contractor's noncompliance with the provisions of this Equal Employment Opportunity Clause, the Illinois Human Rights Act or the Illinois Department of Human Rights Rules and Regulations, the Contractor may be declared ineligible for future contracts or subcontracts with the State of Illinois or any of its political sub-divisions or municipal corporations, and the contract may be cancelled or voided in whole or in part, and such other sanctions or penalties may be imposed or remedies invoked as provided by statute or regulation.

During the performance of this Contract, the Contractor agrees as follows:

That it will not discriminate against any employee or applicant for employment because
of race, color, religion, sex, sexual orientation, marital status, order of protection status,
national origin or ancestry, citizenship status, age, physical or mental disability unrelated
to ability, military status, or an unfavorable discharge from military service; and further

that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.

- 2. That, if it hires additional employees in order to perform this contract or any portion hereof, it will determine the availability (according to the Illinois Department of Human Rights Rules and Regulations) of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.
- 3. That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, sexual orientation, marital status, order of protection status, national origin or ancestry, citizenship status, age, physical or mental disability unrelated to ability, military status, or an unfavorable discharge from military service.
- 4. That it will send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the Contractor's obligations under the Illinois Human Rights Act and the Illinois Department of Human Rights Rules and Regulations. If any labor organization or representative fails or refuses to cooperate with the Contractor in its efforts to comply with such Act and Rules and Regulations, the Contractor will promptly so notify the Illinois Department of Human Rights and IDOT and will recruit employees from other sources when necessary to fulfill its obligations thereunder.
- 5. That it will submit reports as required by the Illinois Department of Human Rights Rules and Regulations, furnish all relevant information as may from time to time be requested by the Illinois Department of Human Rights or IDOT, and in all respects comply with the Illinois Human Rights Act and the Illinois Department of Human Rights Rules and Regulations.
- 6. That it will permit access to all relevant books, records, accounts and work sites by personnel of IDOT and the Illinois Department of Human Rights for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Illinois Department of Human Rights Rules and Regulations.
- 7. That it will include verbatim or by reference the provisions of this clause in every subcontract it awards under which any portion of the contract obligations are undertaken or assumed, so that the provisions will be binding upon the subcontractor. In the same manner as with other provisions of this contract, the Contractor will be liable for compliance with applicable provisions of this clause by subcontractors; and further it will promptly notify IDOT and the Illinois Department of Human Rights in the event any subcontractor fails or refuses to comply with these provisions. In addition, the Contractor will not utilize any subcontractor declared by the Illinois Human Rights

Commission to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations."

FRICTION AGGREGATE (BDE)

Effective: January 1, 2011 Revised: November 1, 2014

Revise Article 1004.01(a)(4) of the Standard Specifications to read:

- "(4) Crushed Stone. Crushed stone shall be the angular fragments resulting from crushing undisturbed, consolidated deposits of rock by mechanical means. Crushed stone shall be divided into the following, when specified.
 - a. Carbonate Crushed Stone. Carbonate crushed stone shall be either dolomite or limestone. Dolomite shall contain 11.0 percent or more magnesium oxide (MgO). Limestone shall contain less than 11.0 percent magnesium oxide (MgO).
 - b. Crystalline Crushed Stone. Crystalline crushed stone shall be either metamorphic or igneous stone, including but is not limited to, quartzite, granite, rhyolite and diabase."

Revise Article 1004.03(a) of the Standard Specifications to read:

"1004.03 Coarse Aggregate for Hot-Mix Asphalt (HMA). The aggregate shall be according to Article 1004.01 and the following.

(a) Description. The coarse aggregate for HMA shall be according to the following table.

Use	Mixture	Aggregates Allowed
Class A	Seal or Cover	Allowed Alone or in Combination 5/: Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag
		Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF)

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Use	Mixture	Aggregates Allowed	
HMA Low ESAL	Stabilized Subbase or Shoulders	Allowed Alone or in Gravel Crushed Gravel Carbonate Crushed Crystalline Crushed Crushed Sandstone Crushed Slag (ACBI Crushed Steel Slag ¹ Crushed Concrete	Stone Stone
HMA High ESAL	Binder	Allowed Alone or in (Combination ^{5/} :
Low ESAL	IL-19.0 or IL-19.0L SMA Binder	Crushed Gravel Carbonate Crushed Crystalline Crushed Crushed Sandstone Crushed Slag (ACBF Crushed Concrete ^{3/}	Stone
HMA High ESAL	C Surface and	Allowed Alone or in C	Combination ^{5/} :
Low ESAL	Leveling Binder IL-9.5 or IL-9.5L SMA Ndesign 50 Surface	Crushed Gravel Carbonate Crushed S Crystalline Crushed S Crushed Sandstone Crushed Slag (ACBF Crushed Steel Slag ^{4/} Crushed Concrete ^{3/}	Stone
HMA High ESAL	D Surface and Leveling Binder IL-9.5 SMA Ndesign 50 Surface	Allowed Alone or in Combination 5/: Crushed Gravel Carbonate Crushed Stone (other than Limestone) 2/ Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag 4/ Crushed Concrete 3/ Other Combinations Allowed:	
		Up to	With
		25% Limestone	Dolomite

Use	Mixture	Aggregates Allowed	
		50% Limestone	Any Mixture D aggregate other than Dolomite
		75% Limestone	Crushed Slag (ACBF) or Crushed Sandstone
HMA High ESAL E Surface IL-9.5 SMA Ndesign 80 Surface		Allowed Alone or in Combination ^{5/} : Crushed Gravel Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag	
		Crushed Concrete ^{3/} No Limestone.	
		Other Combinations A	llowed:
		Up to	With
		50% Dolomite ^{2/}	Any Mixture E aggregate
		75% Dolomite ^{2/}	Crushed Sandstone, Crushed Slag (ACBF), Crushed Steel Slag, or Crystalline Crushed Stone
		75% Crushed Gravel or Crushed Concrete ^{3/}	Crushed Sandstone, Crystalline Crushed Stone, Crushed Slag (ACBF), or Crushed Steel Slag
HMA High ESAL	F Surface IL-9.5	Allowed Alone or in Combination ^{5/} : Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag No Limestone.	
. ngri EU/\L	SMA Ndesign 80 Surface		
		Other Combinations Al	lowed:

Use	Mixture	Aggregates Allowed	
		Up to	With
		50% Crushed Gravel, Crushed Concrete ^{3/} , or Dolomite ^{2/}	Crushed Sandstone, Crushed Slag (ACBF), Crushed Steel Slag, or Crystalline Crushed Stone

- 1/ Crushed steel slag allowed in shoulder surface only.
- 2/ Carbonate crushed stone shall not be used in SMA Ndesign 80. In SMA Ndesign 50, carbonate crushed stone shall not be blended with any of the other aggregates allowed alone in Ndesign 50 SMA binder or Ndesign 50 SMA surface.
- 3/ Crushed concrete will not be permitted in SMA mixes.
- 4/ Crushed steel slag shall not be used as leveling binder.
- 5/ When combinations of aggregates are used, the blend percent measurements shall be by volume."

FUEL COST ADJUSTMENT (BDE) (RETURN FORM WITH BID)

Effective: April 1, 2009 Revised: July 1, 2015

<u>Description</u>. Fuel cost adjustments will be made to provide additional compensation to the Contractor, or a credit to the Department, for fluctuations in fuel 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 indicate contract number, company name and sign and date the form shall make this contract exempt of fuel cost adjustments for all categories of work. Failure to indicate "Yes" for any category of work will make that category of work exempt from fuel cost adjustment.

General. The fuel cost adjustment shall apply to contract pay items as grouped by category. The adjustment shall only apply to those categories of work checked "Yes", and only when the cumulative plan quantities for a category exceed the required threshold. Adjustments to work items in a category, either up or down, and extra work paid for by agreed unit price will be subject to fuel cost adjustment only when the category representing the added work was subject to the fuel cost adjustment. Extra work paid for at a lump sum price or by force account will not be subject to fuel cost adjustment. Category descriptions and thresholds for application and the fuel usage factors which are applicable to each are as follows:

(a) Categories of Work.

- (1) Category A: Earthwork. Contract pay items performed under Sections 202, 204, and 206 including any modified standard or nonstandard items where the character of the work to be performed is considered earthwork. The cumulative total of all applicable item plan quantities shall exceed 25,000 cu yd (20,000 cu m). Included in the fuel usage factor is a weighted average 0.10 gal/cu yd (0.50 liters/cu m) factor for trucking.
- (2) Category B: Subbases and Aggregate Base Courses. Contract pay items constructed under Sections 311, 312 and 351 including any modified standard or nonstandard items where the character of the work to be performed is considered construction of a subbase or aggregate, stabilized or modified base course. The cumulative total of all applicable item plan quantities shall exceed 5000 tons (4500 metric tons). Included in the fuel usage factor is a 0.60 gal/ton (2.50 liters/metric ton) factor for trucking.
- (3) Category C: Hot-Mix Asphalt (HMA) Bases, Pavements and Shoulders. Contract pay items constructed under Sections 355, 406, 407 and 482 including any modified standard or nonstandard items where the character of the work to be performed is considered HMA bases, pavements and shoulders. The cumulative total of all applicable item plan quantities shall exceed 5000 tons (4500 metric tons). Included in the fuel usage factor is 0.60 gal/ton (2.50 liters/metric ton) factor for trucking.

- (4) Category D: Portland Cement Concrete (PCC) Bases, Pavements and Shoulders. Contract pay items constructed under Sections 353, 420, 421 and 483 including any modified standard or nonstandard items where the character of the work to be performed is considered PCC base, pavement or shoulder. The cumulative total of all applicable item plan quantities shall exceed 7500 sq yd (6000 sq m). Included in the fuel usage factor is 1.20 gal/cu yd (5.94 liters/cu m) factor for trucking.
- (5) Category E: Structures. Structure items having a cumulative bid price that exceeds \$250,000 for pay items constructed under Sections 502, 503, 504, 505, 512, 516 and 540 including any modified standard or nonstandard items where the character of the work to be performed is considered structure work when similar to that performed under these sections and not included in categories A through D.

(b) Fuel Usage Factors.

English Units		
Category	Factor	Units
A - Earthwork	0.34	gal / cu yd
B – Subbase and Aggregate Base courses	0.62	gal / ton
C – HMA Bases, Pavements and Shoulders	1.05	gal / ton
D – PCC Bases, Pavements and Shoulders	2.53	gal / cu yd
E – Structures	8.00	gal / \$1000
Metric Units		
Category	Factor	Units
A - Earthwork	1.68	liters / cu m
B – Subbase and Aggregate Base courses	2.58	liters / metric ton
C – HMA Bases, Pavements and Shoulders	4.37	liters / metric ton
D – PCC Bases, Pavements and Shoulders	12.52	liters / cu m
E – Structures	30.28	liters / \$1000

(c) Quantity Conversion Factors.

Category	Conversion	Factor
В	sq yd to ton sq m to metric ton	0.057 ton / sq yd / in depth 0.00243 metric ton / sq m / mm depth
С	sq yd to ton sq m to metric ton	0.056 ton / sq yd / in depth 0.00239 m ton / sq m / mm depth
D	sq yd to cu yd sq m to cu m	0.028 cu yd / sq yd / in depth 0.001 cu m / sq m / mm depth

Method of Adjustment. Fuel cost adjustments will be computed as follows.

 $CA = (FPI_P - FPI_L) \times FUF \times Q$

Where: CA = Cost Adjustment, \$

 FPI_P = Fuel Price Index, as published by the Department for the month the work is

performed, \$/gal (\$/liter)

FPI_L = Fuel Price Index, as published by the Department for the month prior to the letting for work paid for at the contract price; or for the month the agreed unit price letter is submitted by the Contractor for extra work paid for by agreed

unit price, \$/gal (\$/liter)

FUF = Fuel Usage Factor in the pay item(s) being adjusted

Q = Authorized construction Quantity, tons (metric tons) or cu yd (cu m)

The entire FUF indicated in paragraph (b) will be used regardless of use of trucking to perform the work.

<u>Basis of Payment</u>. Fuel cost adjustments may be positive or negative but will only be made when there is a difference between the FPI_L and FPI_P in excess of five percent, as calculated by:

Percent Difference = $\{(FPI_L - FPI_P) \div FPI_L\} \times 100$

Fuel cost adjustments will be calculated for each calendar month in which applicable work is performed; 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

80229

OPTION FOR FUEL COST ADJUSTMENT

The bidder shall submit this completed form with his/her bid. Failure to submit the form or properly complete contract number, company name, and sign and date the form shall make this contract exempt of fuel cost adjustments in all categories. Failure to indicate "Yes" for any category of work at the time of bid will make that category of work exempt from fuel cost adjustment. After award, this form, when submitted shall become part of the contract.

as part	of the contract plans	for the
Yes		
	_ Date:	
	Yes Yes Yes Yes Yes	Yes

HOT-MIX ASPHALT - DENSITY TESTING OF LONGITUDINAL JOINTS (BDE)

Effective: January 1, 2010 Revised: April 1, 2012

<u>Description</u>. This work shall consist of testing the density of longitudinal joints as part of the quality control/quality assurance (QC/QA) of hot-mix asphalt (HMA). Work shall be according to Section 1030 of the Standard Specifications except as follows.

Quality Control/Quality Assurance (QC/QA). Delete the second and third sentence of the third paragraph of Article 1030.05(d)(3) of the Standard Specifications.

Add the following paragraphs to the end of Article 1030.05(d)(3) of the Standard Specifications:

"Longitudinal joint density testing shall be performed at each random density test location. Longitudinal joint testing shall be located at a distance equal to the lift thickness or a minimum of 4 in. (100 mm), from each pavement edge. (i.e. for a 5 in. (125 mm) lift the near edge of the density gauge or core barrel shall be within 5 in. (125 mm) from the edge of pavement.) Longitudinal joint density testing shall be performed using either a correlated nuclear gauge or cores.

- a. Confined Edge. Each confined edge density shall be represented by a oneminute nuclear density reading or a core density and shall be included in the average of density readings or core densities taken across the mat which represents the Individual Test.
- b. Unconfined Edge. Each unconfined edge joint density shall be represented by an average of three one-minute density readings or a single core density at the given density test location and shall meet the density requirements specified herein. The three one-minute readings shall be spaced ten feet apart longitudinally along the unconfined pavement edge and centered at the random density test location."

Revise the Density Control Limits table in Article 1030.05(d)(4) of the Standard Specifications to read:

"Mixture	Parameter	Individual Test	Unconfined Edge
Composition		(includes confined	Joint Density
		edges)	Minimum
IL-4.75	Ndesign = 50	93.0 - 97.4%	91.0%
IL-9.5, IL-12.5	Ndesign ≥ 90	92.0 – 96.0%	90.0%
IL-9.5,IL-9.5L,	Ndesign < 90	92.5 – 97.4%	90.0%
IL-12.5			
IL-19.0, IL-25.0	Ndesign ≥ 90	93.0 – 96.0%	90.0%
IL-19.0, IL-19.0L,	Ndesign < 90	93.0 – 97.4%	90.0%
IL-25.0			

SMA	Ndesign = 50 & 80	93.5 – 97.4%	91.0%
All Other	Ndesign = 30	93.0 - 97.4%	90.0%"

HOT-MIX ASPHALT - MIXTURE DESIGN COMPOSITION AND VOLUMETRIC REQUIREMENTS (BDE)

Effective: November 1, 2013 Revised: November 1, 2014

Revise the last sentence of the first paragraph of Article 312.05 of the Standard Specifications to read:

"The minimum compacted thickness of each lift shall be according to Article 406.06(d)."

Delete the minimum compacted lift thickness table in Article 312.05 of the Standard Specifications.

Revise the second paragraph of Article 355.02 of the Standard Specifications to read:

"The mixture composition used shall be IL-19.0."

Revise Article 355.05(a) of the Standard Specifications to read:

"(a) The top lift thickness shall be 2 1/4 in. (60 mm) for mixture composition IL-19.0."

Revise the Leveling Binder table and second paragraph of Article 406.05(c) of the Standard Specifications to read:

"Leveling Binder		
Nominal, Compacted, Leveling Mixture Composition Binder Thickness, in. (mm)		
≤ 1 1/4 (32) IL-4.75, IL-9.5, or IL-9.5L		
> 1 1/4 to 2 (32 to 50)	IL-9.5 or IL-9.5L	

The density requirements of Article 406.07(c) shall apply for leveling binder, machine method, when the nominal compacted thickness is: 3/4 in. (19 mm) or greater for IL-4.75 mixtures; and 1 1/4 in. (32 mm) or greater for IL-9.5 and IL-9.5L mixtures."

Revise the table in Article 406.06(d) of the Standard Specifications to read:

"MINIMUM COMPACTED LIFT THICKNESS		
Mixture Composition	Thickness, in. (mm)	
IL-4.75	3/4 (19)	
IL-9.5, IL-9.5L	1 1/4 (32)	
SMA-12.5	1 1/2 (38)	
IL-19.0, IL-19.0L	2 1/4 (57)"	

Revise the ninth paragraph of Article 406.14 of the Standard Specifications to read:

"Test strip mixture will be evaluated at the contract unit price according to the following."

Revise Article 406.14(a) of the Standard Specifications to read:

"(a) If the HMA placed during the initial test strip is determined to be acceptable the mixture will be paid for at the contract unit price."

Revise Article 406.14(b) of the Standard Specifications to read:

"(b) If the HMA placed during the initial test strip (1) is determined to be unacceptable to remain in place by the Engineer, and (2) was not produced within 2.0 to 6.0 percent air voids or within the individual control limits of the JMF according to the Department's test results, the mixture will not be paid for and shall be removed at the Contractor's expense. An additional test strip shall be constructed and the mixture will be paid for in full, if produced within 2.0 to 6.0 percent air voids and within the individual control limits of the JMF."

Revise Article 406.14(c) of the Standard Specifications to read:

"(c) If the HMA placed during the initial test strip (1) is determined to be unacceptable to remain in place by the Engineer, and (2) was produced within 2.0 to 6.0 percent air voids and within the individual control limits of the JMF according to the Department's test results, the mixture shall be removed. Removal will be paid according to Article 109.04. This initial mixture will be paid for at the contract unit price. An additional test strip shall be constructed and the mixture will be paid for in full, if produced within 2.0 to 6.0 percent air voids and within the individual control limits of the JMF."

Delete Article 406.14(d) of the Standard Specifications.

Delete Article 406.14(e) of the Standard Specifications.

Delete the last sentence of Article 407.06(c) of the Standard Specifications.

Revise Note 2. of Article 442.02 of the Standard Specifications to read:

"Note 2. The mixture composition of the HMA used shall be IL-19.0 binder, designed with the same Ndesign as that specified for the mainline pavement."

Delete the second paragraph of Article 482.02 of the Standard Specifications.

Revise the first sentence of the sixth paragraph of Article 482.05 of the Standard Specifications to read:

"When the mainline HMA binder and surface course mixture option is used on resurfacing projects, shoulder resurfacing widths of 6 ft (1.8 m) or less may be placed simultaneously with the adjacent traffic lane for both the binder and surface courses."

Revise the second sentence of the fourth paragraph of Article 601.04 of the Standard Specifications to read:

"The top 5 in. (125 mm) of the trench shall be backfilled with an IL-19.0L Low ESAL mixture meeting the requirements of Section 1030 and compacted to a density of not less than 90 percent of the theoretical density."

Revise the second sentence of the fifth paragraph of Article 601.04 of the Standard Specifications to read:

"The top 8 in. (200 mm) of the trench shall be backfilled with an IL-19.0L Low ESAL mixture meeting the requirements of Section 1030 and compacted to a density of not less than 90 percent of the theoretical density."

Revise Article 1003.03(c) of the Standard Specifications to read:

"(c) Gradation. The fine aggregate gradation for all HMA shall be FA 1, FA 2, FA 20, FA 21, or FA 22. The fine aggregate gradation for SMA shall be FA/FM 20.

For mixture IL-4.75 and surface mixtures with an Ndesign = 90, at least 50 percent of the required fine aggregate fraction shall consist of either stone sand, slag sand, or steel slag meeting the FA 20 gradation.

For mixture IL-19.0, Ndesign = 90 the fine aggregate fraction shall consist of at least 67 percent manufactured sand meeting FA 20 or FA 22 gradation. For mixture IL-19.0, Ndesign = 50 or 70 the fine aggregate fraction shall consist of at least 50 percent manufactured sand meeting FA 20 or FA 22 gradation. The manufactured sand shall be stone sand, slag sand, steel slag sand, or combinations thereof.

Gradation FA 1, FA 2, or FA 3 shall be used when required for prime coat aggregate application for HMA."

Remove footnote 3/ from the tables and at the end of the tables in Article 1004.01(c) of the Standard Specifications.

Delete the last sentence of the first paragraph of Article 1004.03(b) of the Standard Specifications.

Revise the table in Article 1004.03(c) of the Standard Specifications to read:

"Use	Size/Application	Gradation No.
Class A-1, 2, & 3	3/8 in. (10 mm) Seal	CA 16
Class A-1	1/2 in. (13 mm) Seal	CA 15
Class A-2 & 3	Cover	CA 14
HMA High ESAL	IL-19.0	CA 11 ^{1/}
	IL-9.5	CA 16 and/or CA 13
		CA 16
HMA Low ESAL	IL-19.0L	CA 11 ^{1/}
	IL-9.5L	CA 16
	Stabilized Subbase	
	or Shoulders	

1/ CA 16 or CA 13 may be blended with the gradations listed."

Revise the nomenclature table in Article 1030.01 of the Standard Specifications to read:

"High ESAL	IL-19.0 binder;	
	IL-9.5 surface	
Low ESAL	IL-19.0L binder; IL-9.5L surface;	
	Stabilized Subbase (HMA) ^{1/} ;	
	HMA Shoulders ^{2/}	

- 1/ Uses 19.0L binder mix.
- 2/ Uses 19.0L for lower lifts and 9.5L for surface lift."

Revise Article 1030.02 of the Standard Specifications and Supplemental Specifications to read:

"1030.02 Materials. Materials shall be according to the following.

Item	Article/Section
(a) Coarse Aggregate	
(b) Fine Aggregate	1003.03
(c) RAP Material	1031
(d) Mineral Filler	1011
(e) Hydrated Lime	1012.01
(f) Slaked Quicklime (Note 1)	
(g) Performance Graded Asphalt Binder (Note 2)	1032
(h) Fibers (Note 3)	
(i) Warm Mix Asphalt (WMA) Technologies (Note 4)	

Note 1. Slaked quicklime shall be according to ASTM C 5.

- Note 2. The asphalt binder shall be an SBS PG 76-28 when the SMA is used on a full-depth asphalt pavement and SBS PG 76-22 when used as an overlay.
- Note 3. A stabilizing additive such as cellulose or mineral fiber shall be added to the SMA mixture according to Illinois Modified AASHTO M 325. The stabilizing additive shall meet the Fiber Quality Requirements listed in Illinois Modified AASHTO M 325. Prior to approval and use of fibers, the Contractor shall submit a notarized certification by the producer of these materials stating they meet these requirements.
- Note 4. Warm mix additives or foaming processes shall be selected from the current Bureau of Materials and Physical Research Approved List, "Warm Mix Asphalt Technologies"."

Revise Article 1030.04(a)(1) of the Standard Specifications and the Supplemental Specifications to read:

"(1) High ESAL Mixtures. The Job Mix Formula (JMF) shall fall within the following limits.

High ESAL, MIXTURE COMPOSITION (% PASSING) 1/								
Sieve	IL-19	.0 mm	SMA	12.5 ^{4/}	IL-9	.5 mm	IL-4.	75 mm
Size	min	max	min	max	min	max	min	max
1 1/2 in (37.5 mm)								
1 in. (25 mm)		100						
3/4 in. (19 mm)	90	100		100				
1/2 in. (12.5 mm)	75	89	90	99		100		100
3/8 in. (9.5 mm)			50	85	90	100		100
#4 (4.75 mm)	40	60	20	40	32	69	90	100
#8 (2.36 mm)	26	42	16	24 ^{5/}	32	52 ^{2/}	70	90
#16 (1.18 mm)	15	30			10	32	50	65
#50 (300 µm)	6	15			4	15	15	30
#100 (150 µm)	4	9			3	10	10	18
#200 (75 µm)	3	6	8.0	11.0 ^{3/}	4	6	7	9
Ratio Dust/Asphalt Binder		1.0				1.0		1.0 3/

- 1/ Based on percent of total aggregate weight.
- 2/ The mixture composition shall not exceed 44 percent passing the #8 (2.36 mm) sieve for surface courses with Ndesign = 90.
- 3/ Additional minus No. 200 (0.075 mm) material required by the mix design shall be mineral filler, unless otherwise approved by the Engineer.

- 4/ The maximum percent passing the #635 (20 μ m) sieve shall be \leq 3 percent.
- 5/ When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted above 24 percent."

Delete Article 1030.04(a)(3) of the Standard Specifications.

Delete Article 1030.04(a)(4) of the Standard Specifications.

Revise the table in Article 1030.04(b)(1) of the Standard Specifications to read:

	"VOLUMETRIC REQUIREMENTS High ESAL				
	Voids in the Mineral Aggregate (VMA), % minimum			Voids Filled with Asphalt Binder (VFA),	
Ndesign	IL-19.0	IL-9.5	%		
50			18.5	65 – 78 ^{2/}	
70	13.5	15.0		65 - 75	
90				00-73	

- 1/ Maximum Draindown for IL-4.75 shall be 0.3 percent
- 2/ VFA for IL-4.75 shall be 76-83 percent"

Revise the table in Article 1030.04(b)(2) of the Standard Specifications to read:

"VOLUMETRIC REQUIREMENTS					
	*************************************	Low ESAL			
Mixture	Design	Design	VMA (Voids	VFA (Voids	
Composition	Compactive	Air Voids	in the	Filled with	
	Effort Target % Mineral Asphalt				
	Aggregate), Binder),				
	% min. %				
IL-9.5L	$N_{DES} = 30$	4.0	15.0	65-78	
IL-19.0L	$N_{DES} = 30$	4.0	13.5	N/A"	

Replace Article 1030.04(b)(3) of the Standard Specifications with the following:

"(3) SMA Mixtures.

ESALs (million)	Ndesign	Design Air Voids Target %	Voids in the Mineral Aggregate (VMA), % min.	Voids Filled with Asphalt (VFA), %
≤ 10	50	4.0	16.0	75 – 80
> 10	80	4.0	17.0	75 – 80"

Delete Article 1030.04(b)(4) of the Standard Specifications.

Delete Article 1030.04(b)(5) from the Supplemental Specifications.

Revise the table in Article 1030.05(d)(2)a. of the Standard Specifications to read:

	Г г	T
	Frequency of Tests	Test Method
"Daramatas	Link FOAL Minton	See Manual of
"Parameter	High ESAL Mixture	Test Procedures
A	Low ESAL Mixture	for Materials
Aggregate		
Gradation	1 washed ignition	Illinois
	oven test on the mix	Procedure
	per half day of	
0/ passing piouss	production	
% passing sieves: 1/2 in. (12.5 mm),	Note 3.	
No. 4 (4.75 mm),	Note 3.	
No. 8 (2.36 mm),		
No. 30 (600 µm)		
No. 200 (75 μm)		
110. 200 (70 μ)		
Asphalt Binder		
Content by Ignition	1 per half day of	Illinois-Modified
Oven	production	AASHTO T 308
	p. vaasto	7 4 10177 0 1 000
Note 1.		
VMA	Day's production	Illinois-Modified
	≥ 1200 tons:	AASHTO R 35
Note 2.		
	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)	
i l		1

	Frequency of Tests	Test Method See Manual of
"Parameter	High ESAL Mixture Low ESAL Mixture	Test Procedures for Materials
Air Voids	Day's production ≥ 1200 tons:	
Bulk Specific Gravity of Gyratory Sample	1 per half day of production	Illinois-Modified AASHTO T 312
	'	
Note 4.	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)	
Maximum Specific Gravity of Mixture	Day's production ≥ 1200 tons:	Illinois-Modified AASHTO T 209
•	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 1. The Engineer may waive the ignition oven requirement for asphalt binder content if the aggregates to be used are known to have ignition asphalt binder content calibration factors which exceed 1.5 percent. If the ignition oven requirement is waived, other Department approved methods shall be used to determine the asphalt binder content.

Note 2. 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.

Note 3. The Engineer reserves the right to require additional hot bin gradations for batch plants if control problems are evident.

Note 4. The WMA compaction temperature for mixture volumetric testing shall be 270 \pm 5 °F (132 \pm 3 °C) for quality control testing. The WMA compaction temperature for quality assurance testing will be 270 \pm 5 °F (132 \pm 3 °C) if the mixture is not allowed to cool to room temperature. If the mixture is allowed to cool to room temperature, it shall be reheated to standard HMA compaction temperatures."

Revise the table in Article 1030.05(d)(2)b. of the Standard Specifications to read:

"Parameter	High ESAL Mixture Low ESAL Mixture
Ratio Dust/Asphalt Binder	0.6 to 1.2
Moisture	0.3 %"

Revise the Article 1030.05(d)(4) of the Supplemental Specifications to read:

"(4) Control Limits. Target values shall be determined by applying adjustment factors to the AJMF where applicable. The target values shall be plotted on the control charts within the following control limits.

	CONTROL LIMITS					
Dorometer	High E Low E		SN	1A	IL-4	.75
Parameter	Individual Test	Moving Avg. of 4	Individual Test	Moving Avg. of 4	Individual Test	Moving Avg. of 4
% Passing: 1/						
1/2 in. (12.5 mm)	±6%	±4%	±6%	± 4 %		
3/8 in. (9.5mm)			± 4 %	± 3 %		
No. 4 (4.75 mm)	±5%	± 4 %	± 5 %	± 4 %		
No. 8 (2.36 mm)	±5%	±3%	± 4 %	± 2 %		
No. 16 (1.18 mm)			± 4 %	± 2 %	± 4 %	±3%
No. 30 (600 µm)	± 4 %	± 2.5 %	± 4 %	± 2.5 %		
Total Dust Content No. 200 (75 µm)	± 1.5 %	± 1.0 %			± 1.5 %	± 1.0 %
Asphalt Binder Content	± 0.3 %	± 0.2 %	± 0.2 %	± 0.1 %	± 0.3 %	± 0.2 %
Voids	± 1.2 %	± 1.0 %	± 1.2 %	± 1.0 %	± 1.2 %	± 1.0 %
VMA	-0.7 % ^{2/}	-0.5 % ^{2/}	-0.7 % ^{2/}	-0.5 % ^{2/}	-0.7 % ^{2/}	-0.5 % ^{2/}

- 1/ Based on washed ignition oven
- 2/ Allowable limit below minimum design VMA requirement

DENSITY CONTROL LIMITS					
Mixture Composition	Parameter	Individual Test			
IL-4.75	Ndesign = 50	93.0 - 97.4 % 1/			
IL-9.5	Ndesign = 90	92.0 - 96.0 %			
IL-9.5,IL-9.5L	Ndesign < 90	92.5 - 97.4 %			
IL-19.0	Ndesign = 90	93.0 - 96.0 %			
IL-19.0, IL-19.0L	Ndesign < 90	93.0 ^{2/} - 97.4 %			
SMA	Ndesign = 50 & 80	93.5 - 97.4 %			

- 1/ Density shall be determined by cores or by correlated, approved thin lift nuclear gauge.
- 2/ 92.0 % when placed as first lift on an unimproved subgrade."

Revise the table in Article 1030.05(d)(5) of the Supplemental Specifications to read:

"CONTROL CHART	High ESAL,		
REQUIREMENTS	Low ESAL, SMA		
	& IL-4.75		
	% Passing Sieves:		
	1/2 in. (12.5 mm) ^{2/}		
Gradation 1/3/	No. 4 (4.75 mm)		
	No. 8 (2.36 mm)		
	No. 30 (600 µm)		
Total Dust Content 1/	No. 200 (75 μm)		
	Asphalt Binder Content		
	Bulk Specific Gravity		
	Maximum Specific		
	Gravity of Mixture		
	Voids		
	Density		
	VMA		

- 1/ Based on washed ignition oven.
- 2/ Does not apply to IL-4.75.
- 3/ SMA also requires the 3/8 in. (9.5 mm) sieve."

Delete Article 1030.05(d)(6)a.1.(b.) of the Standard Specifications.

Delete Article 1030.06(b) of the Standard Specifications.

Delete Article 1102.01(e) of the Standard Specifications.

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

Effective: November 1, 2013 | Revised: November 1, 2014

<u>Description</u>. This special provision provides the requirements for Hamburg Wheel and tensile strength testing for High ESAL, IL-4.75, and Stone Matrix Asphalt (SMA) hot-mix asphalt (HMA) mixes during mix design verification and production. This special provision also provides the plant requirements for hydrated lime addition systems used in the production of High ESAL, IL-4.75, and SMA mixes.

Mix Design Testing. Add the following below the referenced AASHTO standards in Article 1030.04 of the Standard Specifications:

AASHTO T 324 Hamburg Wheel Test

AASHTO T 283 Tensile Strength Test

Add the following to Article 1030.04 of the Standard Specifications:

"(d) Verification Testing. High ESAL, IL-4.75, and SMA mix designs submitted for verification will be tested to ensure that the resulting mix designs will pass the required criteria for the Hamburg Wheel Test (Illinois Modified AASHTO T 324) and the Tensile Strength Test (Illinois Modified AASHTO T 283). The Department will perform a verification test on gyratory specimens compacted by the Contractor. If the mix fails the Department's verification test, the Contractor shall make necessary changes to the mix and provide passing Hamburg Wheel and tensile strength test results from a private lab. The Department will verify the passing results.

All new and renewal mix designs shall meet the following requirements for verification testing.

(1) Hamburg Wheel Test Criteria. The maximum allowable rut depth shall be 0.5 in. (12.5 mm). The minimum number of wheel passes at the 0.5 in. (12.5 mm) rut depth criteria shall be based on the high temperature binder grade of the mix as specified in the mix requirements table of the plans.

Illinois Modified AASHTO T 324 Requirements 1/

PG Grade	Number of Passes
PG 58-xx (or lower)	5,000
PG 64-xx	7,500
PG 70-xx	15,000
PG 76-xx (or higher)	20,000

- 1/ When produced at temperatures of 275 \pm 5 °F (135 \pm 3 °C) or less, loose Warm Mix Asphalt shall be oven aged at 270 \pm 5 °F (132 \pm 3 °C) for two hours prior to gyratory compaction of Hamburg Wheel specimens.
- (2) Tensile Strength Criteria. The minimum allowable conditioned tensile strength shall be 60 psi (415 kPa) for non-polymer modified performance graded (PG) asphalt binder and 550 kPa (80 psi) for polymer modified PG asphalt binder. The maximum allowable unconditioned tensile strength shall be 200 psi (1380 kPa)."

Production Testing. Revise Article 1030.06(a) of the Standard Specifications to read:

"(a) High ESAL, IL-4.75, WMA, and SMA Mixtures. For each contract, a 300 ton (275 metric tons) test strip will be required at the beginning of HMA production for each mixture with a quantity of 3000 tons (2750 metric tons) or more according to the Manual of Test Procedures for Materials "Hot Mix Asphalt Test Strip Procedures".

Before start-up, target values shall be determined by applying gradation correction factors to the JMF when applicable. These correction factors shall be determined from previous experience. The target values, when approved by the Engineer, shall be used to control HMA production. Plant settings and control charts shall be set according to target values.

Before constructing the test strip, target values shall be determined by applying gradation correction factors to the JMF when applicable. After any JMF adjustment, the JMF shall become the Adjusted Job Mix Formula (AJMF). Upon completion of the first acceptable test strip, the JMF shall become the AJMF regardless of whether or not the JMF has been adjusted. If an adjustment/plant change is made, the Engineer may require a new test strip to be constructed. If the HMA placed during the initial test strip is determined to be unacceptable to remain in place by the Engineer, it shall be removed and replaced.

The limitations between the JMF and AJMF are as follows.

Parameter	Adjustment
1/2 in. (12.5 mm)	± 5.0 %
No. 4 (4.75 mm)	± 4.0 %
No. 8 (2.36 mm)	± 3.0 %
No. 30 (600 µm)	*
No. 200 (75 µm)	*
Asphalt Binder	± 0.3 %
Content	

^{*} In no case shall the target for the amount passing be greater than the JMF.

Any adjustments outside the above limitations will require a new mix design.

Mixture sampled to represent the test strip shall include additional material sufficient for the Department to conduct Hamburg Wheel testing according to Illinois Modified AASHTO T324 (approximately 60 lb (27 kg) total).

The Contractor shall immediately cease production upon notification by the Engineer of failing Hamburg Wheel test. All prior produced material may be paved out provided all other mixture criteria is being met. No additional mixture shall be produced until the Engineer receives passing Hamburg Wheel tests.

The Department may conduct additional Hamburg Wheel tests on production material as determined by the Engineer."

Revise the title of Article 1030.06(b) of the Standard Specifications to read:

"(b) Low ESAL Mixtures."

<u>System for Hydrated Lime Addition</u>. Revise the fourth sentence of the third paragraph of Article 1030.04(c) of the Standard Specifications to read:

"The method of application shall be according to Article 1102.01(a)(10)."

Replace the first three sentences of the second paragraph of Article 1102.01(a)(10) of the Standard Specifications to read:

"When hydrated lime is used as the anti-strip additive, a separate bin or tank and feeder system shall be provided to store and accurately proportion the lime onto the aggregate either as a slurry, as dry lime applied to damp aggregates, or as dry lime injected onto the hot aggregates prior to adding the liquid asphalt cement. If the hydrated lime is added either as a slurry or as dry lime on damp aggregates, the lime and aggregates shall be mixed by a power driven pugmill to provide a uniform coating of the lime prior to entering the dryer. If dry hydrated lime is added to the hot dry aggregates in a dryer-drum plant, the lime shall be added in such a manner that the lime will not become entrained into the air stream of the dryer-drum and that thorough dry mixing shall occur prior to the injection point of the liquid asphalt. When a batch plant is used, the hydrated lime shall be added to the mixture in the weigh hopper or as approved by the Engineer."

<u>Basis of Payment</u>. Replace the seventh paragraph of Article 406.14 of the Standard Specifications with the following:

"For mixes designed and verified under the Hamburg Wheel criteria, the cost of furnishing and introducing anti-stripping additives in the HMA will not be paid for separately, but shall be considered as included in the contract unit price of the HMA item involved.

If an anti-stripping additive is required for any other HMA mix, the cost of the additive will be paid for according to Article 109.04. The cost incurred in introducing the additive into the

HMA will not be paid for separately, but shall be considered as included in the contract unit price of the HMA item involved.

No additional compensation will be awarded to the Contractor because of reduced production rates associated with the addition of the anti-stripping additive."

HOT MIX ASPHALT - PRIME COAT (BDE)

Effective: November 1, 2014

Revise Note 1 of Article 406.02 of the Standard Specifications to read:

"Note 1. The bituminous material used for prime coat shall be one of the types listed in the following table.

When emulsified asphalts are used, any dilution with water shall be performed by the emulsion producer. The emulsified asphalt shall be thoroughly agitated within 24 hours of application and show no separation of water and emulsion.

Application	Bituminous Material Types
Prime Coat on Brick, Concrete, or HMA Bases	SS-1, SS-1h, SS-1hP, SS-1vh, RS-1, RS-2, CSS-1, CSS-1h, CSS-1hp, CRS-1, CRS-2, HFE-90, RC-70
Prime Coat on Aggregate Bases	MC-30, PEP"

Add the following to Article 406.03 of the Standard Specifications.

"(i)	Vacuum Sweeper11	01.19
	Spray Paver110	

Revise Article 406.05(b) of the Standard Specifications to read:

- "(b) Prime Coat. The bituminous material shall be prepared according to Article 403.05 and applied according to Article 403.10. The use of RC-70 shall be limited to air temperatures less than 60 °F (15 °C).
 - (1) Brick, Concrete or HMA Bases. The base shall be cleaned of all dust, debris and any substance that will prevent the prime coat from adhering to the base. Cleaning shall be accomplished by sweeping to remove all large particles and air blasting to remove dust. As an alternative to air blasting, a vacuum sweeper may be used to accomplish the dust removal. The base shall be free of standing water at the time of application. The prime coat shall be applied uniformly and at a rate that will provide a residual asphalt rate on the prepared surface as specified in the following table.

Type of Surface to be Primed	Residual Asphalt Rate lb/sq ft (kg/sq m)
Milled HMA, Aged Non-Milled HMA, Milled Concrete, Non-Milled Concrete & Tined Concrete	0.05 (0.244)
Fog Coat between HMA Lifts, IL-4.75 & Brick	0.025 (0.122)

The bituminous material for the prime coat shall be placed one lane at a time. If a spray paver is not used, the primed lane shall remain closed until the prime coat is

fully cured and does not pickup under traffic. When placing prime coat through an intersection where it is not possible to keep the lane closed, the prime coat may be covered immediately following its application with fine aggregate mechanically spread at a uniform rate of 2 to 4 lb/sq yd (1 to 2 kg/sq m).

(2) Aggregate Bases. The prime coat shall be applied uniformly and at a rate that will provide a residual asphalt rate on the prepared surface of $0.25 \, \text{lb/sq}$ ft $\pm 0.01 \, (1.21 \, \text{kg/sq} \, \text{m} \, \pm 0.05)$.

The prime coat shall be permitted to cure until the penetration has been approved by the Engineer, but at no time shall the curing period be less than 24 hours for MC-30 or four hours for PEP. Pools of prime occurring in the depressions shall be broomed or squeegeed over the surrounding surface the same day the prime coat is applied.

The base shall be primed 1/2 width at a time. The prime coat on the second half/width shall not be applied until the prime coat on the first half/width has cured so that it will not pickup under traffic.

The residual asphalt rate will be verified a minimum of once per type of surface to be primed as specified herein for which at least 2000 tons (1800 metric tons) of HMA will be placed. The test will be according to the "Determination of Residual Asphalt in Prime and Tack Coat Materials" test procedure.

Prime coat shall be fully cured prior to placement of HMA to prevent pickup by haul trucks or paving equipment. If pickup occurs, paving shall cease in order to provide additional cure time, and all areas where the pickup occurred shall be repaired.

If after five days, loss of prime coat is evident prior to covering with HMA, additional prime coat shall be placed as determined by the Engineer at no additional cost to the Department."

Revise the last sentence of the first paragraph of Article 406.13(b) of the Standard Specifications to read:

"Water added to emulsified asphalt, as allowed in Article 406.02, will not be included in the quantities measured for payment."

Revise the second paragraph of Article 406.13(b) of the Standard Specifications to read:

"Aggregate for covering prime coat will not be measured for payment."

Revise the first paragraph of Article 406.14 of the Standard Specifications to read:

"406.14 Basis of Payment. Prime Coat will be paid for at the contract unit price per pound (kilogram) of residual asphalt applied for BITUMINOUS MATERIALS (PRIME COAT), or POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)."

Revise Article 407.02 of the Standard Specifications to read:

"407.02 Materials. Materials shall be according to Article 406.02, except as follows.

Revise Article 407.06(b) of the Standard Specifications to read:

"(b) A bituminous prime coat shall be applied between each lift of HMA according to Article 406.05(b)."

Delete the second paragraph of Article 407.12 of the Standard Specifications.

Revise the first paragraph of Article 408.04 of the Standard Specifications to read:

"408.04 Method of Measurement. Bituminous priming material will be measured for payment according to Article 406.13."

Revise the first paragraph of Article 408.05 of the Standard Specifications to read:

"408.05 Basis of Payment. This work will be paid for at the contract unit price per pound (kilogram) of residual asphalt applied for BITUMINOUS MATERIALS (PRIME COAT) or POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT) and at the contract unit price per ton (metric ton) for INCIDENTAL HOT-MIX ASPHALT SURFACING."

Revise Article 1032.02 of the Standard Specifications to read:

"1032.02 Measurement. Asphalt binders, emulsified asphalts, rapid curing liquid asphalt, medium curing liquid asphalts, slow curing liquid asphalts, asphalt fillers, and road oils will be measured by weight.

A weight ticket for each truck load shall be furnished to the inspector. The truck shall be weighed at a location approved by the Engineer. The ticket shall show the weight of the empty truck (the truck being weighed each time before it is loaded), the weight of the loaded truck, and the net weight of the bituminous material.

When an emulsion or cutback is used for prime coat, the percentage of asphalt residue of the actual certified product shall be shown on the producer's bill of lading or attached certificate of analysis. If the producer adds extra water to an emulsion at the request of the purchaser, the amount of water shall also be shown on the bill of lading.

Payment will not be made for bituminous materials in excess of 105 percent of the amount specified by the Engineer."

Add the following to the table in Article 1032.04 of the Standard Specifications.

"CC 1vh	400 400	70.00	
33-1VII	160-180	70-80	
RS-1, CRS-1	75-130	25-55"	

Add the following to Article 1032.06 of the Standard Specifications.

"(g) Non Tracking Emulsified Asphalt SS-1vh shall be according to the following.

	Doguironos	to for CC 4:-b			
	Requirements for SS-1vh				
Test		SPEC	AASHTO Test Method		
Saybolt Viscosity @ 25C,	SFS	20-200	T 72		
Storage Stability, 24hr.,	%	1 max.	T 59		
Residue by Evaporation,	%	50 min.	T 59		
Sieve Test,	%	0.3 max.	T 59		
Tests on Residue from Evaporation					
Penetration @25°C, 100g., 5	sec., dmm	20 max.	T 49		
Softening Point,	°C	65 min.	T 53		
Solubility,	%	97.5 min.	T 44		
Orig. DSR @ 82°C,	kPa	1.00 min.	T 315"		

Revise the last table in Article 1032.06(f)(2)d. of the Standard Specifications to read:

"Grade	Use
SS-1, SS-1h, RS-1, RS-2, CSS-1, CRS-1, CRS-2, CSS-1h, HFE-90, SS-1hP, CSS-1hP, SS-1vh	Prime or fog seal
PEP	Bituminous surface treatment prime
RS-2, HFE-90, HFE-150, HFE- 300, CRSP, HFP, CRS-2, HFRS-2	Bituminous surface treatment
CSS-1h Latex Modified	Microsurfacing"

Add the following to Article 1101 of the Standard Specifications.

"1101.19 Vacuum Sweeper. The vacuum sweeper shall have a minimum sweeping path of 52 in. (1.3 m) and a minimum blower rating of 20,000 cu ft per minute (566 cu m per minute)."

Add the following to Article 1102 of the Standard Specifications:

"1102.06 Spray Paver. The spreading and finishing machine shall be capable of spraying a rapid setting emulsion tack coat, paving a layer of HMA, and providing a smooth HMA mat in one pass. The HMA shall be spread over the tack coat in less than five seconds after the



application of the tack coat during normal paving speeds. No wheel or other part of the paving machine shall come into contact with the tack coat before the HMA is applied. In addition to meeting the requirements of Article 1102.03, the spray paver shall also meet the requirements of Article 1102.05 for the tank, heating system, pump, thermometer, tachometer or synchronizer, and calibration. The spray bar shall be equipped with properly sized and spaced nozzles to apply a uniform application of tack coat at the specified rate for the full width of the mat being placed."

LRFD PIPE CULVERT BURIAL TABLES (BDE)

Effective: November 1, 2013

Revised: April 1, 2015

Revise Article 542.02 of the Standard Specifications to read as follows:

(a) Galvanized Corrugated Steel Pipe Arch	"Item	Article/Section
(c) Bituminous Coated Corrugated Steel Pipe	(a) Galvanized Corrugated Steel Pipe	1006.01
(d)Bituminous Coated Corrugated Steel Pipe Arch1006.01(e)Reserved1006.01(f)Aluminized Steel Type 2 Corrugated Pipe1006.01(g)Aluminized Steel Type 2 Corrugated Pipe Arch1006.01(h)Precoated Galvanized Corrugated Steel Pipe1006.01(i)Precoated Galvanized Corrugated Steel Pipe Arch1006.03(j)Corrugated Aluminum Alloy Pipe1006.03(k)Corrugated Aluminum Alloy Pipe Arch1006.03(l)Extra Strength Clay Pipe1040.02(m)Concrete Sewer, Storm Drain, and Culvert Pipe1042(n)Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe1042(o)Reinforced Concrete Elliptical Culvert, Storm Drain, and Sewer Pipe1042(p)Reinforced Concrete Arch Culvert, Storm Drain, and Sewer Pipe1042(q)Polyvinyl Chloride (PVC) Pipe1040.03(r)Corrugated Polyyrinyl Chloride (PVC) Pipe with a Smooth Interior1040.03(s)Corrugated Polyvinyl Chloride (PVC) Pipe with a Smooth Interior1040.08(t)Corrugated Polyythylene (PE) Pipe with a Smooth Interior1040.04(v)Rubber Gaskets and Preformed Flexible Joint Sealants for Concrete Pipe1056(w)Mastic Joint Sealer for Pipe1055(x)External Sealing Band1057(y)Fine Aggregate (Note 1)1003.04(z)Coarse Aggregate (Note 2)1004.05(aa)Packaged Rapid Hardening Mortar or Concrete1018(bb)Nonshrink Grout <td>(b) Galvanized Corrugated Steel Pipe Arch</td> <td>1006.01</td>	(b) Galvanized Corrugated Steel Pipe Arch	1006.01
(e) Reserved (f) Aluminized Steel Type 2 Corrugated Pipe	(c) Bituminous Coated Corrugated Steel Pipe	1006.01
(f)Aluminized Steel Type 2 Corrugated Pipe1006.01(g)Aluminized Steel Type 2 Corrugated Pipe Arch1006.01(h)Precoated Galvanized Corrugated Steel Pipe1006.01(i)Precoated Galvanized Corrugated Steel Pipe Arch1006.03(j)Corrugated Aluminum Alloy Pipe1006.03(k)Corrugated Aluminum Alloy Pipe Arch1006.03(l)Extra Strength Clay Pipe1040.02(m)Concrete Sewer, Storm Drain, and Culvert Pipe1042(n)Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe1042(o)Reinforced Concrete Elliptical Culvert, Storm Drain, and Sewer Pipe1042(p)Reinforced Concrete Arch Culvert, Storm Drain, and Sewer Pipe1042(q)Polyvinyl Chloride (PVC) Pipe1040.03(r)Corrugated Polyvinyl Chloride (PVC) Pipe with a Smooth Interior1040.03(s)Corrugated Polypropylene (CPP) pipe with smooth Interior1040.08(t)Corrugated Polyethylene (PE) Pipe with a Smooth Interior1040.08(v)Rubber Gaskets and Preformed Flexible Joint Sealants for Concrete Pipe1056(w)Mastic Joint Sealer for Pipe1055(x)External Sealing Band1057(y)Fine Aggregate (Note 1)1003.04(z)Coarse Aggregate (Note 2)1004.05(aa)Packaged Rapid Hardening Mortar or Concrete1018(bb)Nonshrink Grout1024.02(cc)Reinforcement Bars and Welded Wire Fabric1006.10	(d) Bituminous Coated Corrugated Steel Pipe Arch	1006.01
(g) Aluminized Steel Type 2 Corrugated Pipe Arch	(e) Reserved	
(h) Precoated Galvanized Corrugated Steel Pipe	(f) Aluminized Steel Type 2 Corrugated Pipe	1006.01
(i) Precoated Galvanized Corrugated Steel Pipe Arch	(g) Aluminized Steel Type 2 Corrugated Pipe Arch	1006.01
(j) Corrugated Aluminum Alloy Pipe	(h) Precoated Galvanized Corrugated Steel Pipe	1006.01
(k) Corrugated Aluminum Alloy Pipe Arch	(i) Precoated Galvanized Corrugated Steel Pipe Arch	1006.01
(I) Extra Strength Clay Pipe	(j) Corrugated Aluminum Alloy Pipe	1006.03
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(bb) Nonshrink Grout1024.02(cc) Reinforcement Bars and Welded Wire Fabric1006.10		
(cc) Reinforcement Bars and Welded Wire Fabric		
(dd) Handling Hole Plugs1042.16		
(,)	(dd) Handling Hole Plugs	1042.16

Note 1. The fine aggregate shall be moist.

Note 2. The coarse aggregate shall be wet."

Revise the table for permitted materials in Article 542.03 of the Standard Specifications as follows:

"Class	Materials
Α	Rigid Pipes:
	Extra Strength Clay Pipe
	Concrete Sewer Storm Drain and Culvert Pipe, Class 3
	Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe
	Reinforced Concrete Elliptical Culvert, Storm Drain, and Sewer Pipe
	Reinforced Concrete Arch Culvert, Storm Drain, and Sewer Pipe
С	Rigid Pipes:
	Extra Strength Clay Pipe
	Concrete Sewer Storm Drain and Culvert Pipe, Class 3
	Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe Reinforced Concrete Elliptical Culvert, Storm Drain, and Sewer Pipe
	Reinforced Concrete Arch Culvert, Storm Drain, and Sewer Pipe
	Flexible Pipes:
	Aluminized Steel Type 2 Corrugated Pipe
	Aluminized Steel Type 2 Corrugated Pipe Arch
	Precoated Galvanized Corrugated Steel Pipe
	Precoated Galvanized Corrugated Steel Pipe Arch
	Corrugated Aluminum Alloy Pipe
	Corrugated Aluminum Alloy Pipe Arch
	Polyvinyl Chloride (PVC) Pipe
	Corrugated Polyvinyl Chloride (PVC) Pipe with a Smooth Interior
	Polyethylene (PE) Pipe with a Smooth Interior
D	Corrugated Polypropylene (CPP) Pipe with Smooth Interior Rigid Pipes:
D	Extra Strength Clay Pipe
	Concrete Sewer Storm Drain and Culvert Pipe, Class 3
	Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe
	Reinforced Concrete Elliptical Culvert, Storm Drain, and Sewer Pipe
	Reinforced Concrete Arch Culvert, Storm Drain, and Sewer Pipe
	Flexible Pipes:
	Galvanized Corrugated Steel Pipe
	Galvanized Corrugated Steel Pipe Arch
	Bituminous Coated Corrugated Steel Pipe
	Bituminous Coated Corrugated Steel Pipe Arch
	Aluminized Steel Type 2 Corrugated Pipe
	Aluminized Steel Type 2 Corrugated Pipe Arch
	Precoated Galvanized Corrugated Steel Pipe
	Precoated Galvanized Corrugated Steel Pipe Arch Corrugated Aluminum Alloy Pipe
	Corrugated Aluminum Alloy Pipe Corrugated Aluminum Alloy Pipe Arch
	Polyvinyl Chloride (PVC) Pipe
	Corrugated Polyvinyl Chloride (PVC) Pipe with a Smooth Interior
	Corrugated Polyethylene (PE) Pipe with a Smooth Interior
	Polyethylene (PE) Pipe with a Smooth Interior"
	Corrugated Polypropylene (CPP) Pipe with Smooth Interior

Revise Articles 542.03(b) and (c) of the Standard Specifications to read:

- "(b) Extra strength clay pipe will only be permitted for pipe culverts Type 1, for 10 in., 12 in., 42 in. and 48 in. (250 mm, 300 mm, 1050 mm and 1200 mm), Types 2, up to and including 48 in. (1200 mm), Type 3, up to and including 18 in. (450 mm), Type 4 up to and including 10 in. (250 mm), for all pipe classes.
- (c) Concrete sewer, storm drain, and culvert pipe Class 3 will only be permitted for pipe culverts Type 1, up to and including 10 in (250 mm), Type 2, up to and including 30 in. (750 mm), Type 3, up to and including 15 in. (375 mm); Type 4, up to and including 10 in. (250 mm), for all pipe classes."

Replace the pipe tables in Article 542.03 of the Standard Specifications with the following:

		,																						
	Type 7	Fill Height:) OC == -11 == -10 OC	oreater than 30 not exceeding 35'	<u> </u>	>	· >	^	>	>	^	>	· >	^	>	>	^	2730	2740	2750	2750	2760	2770	
Pipe	Type 6	Fill Height:	Croots than DE	not exceeding 30'	<u> </u>	>	>		>	>	\ \	>	>	\\	>	>	<u> </u>	2370	2380	2390	2400	2410	2410	
"Table IA: Classes of Reinforced Concrete Pipe for the Respective Diameters of Pipe and Fill Heights over the Top of the Pipe	Type 5	Fill Height:	Greater than 20'	not exceeding 25'	<u>\</u>	≥	2	Λ	2	≥	N	≥	≥	N	≥	≥	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2020	2020	2030	2040	2050	2060	
"Table IA: Classes of Reinforced Concrete Pipe itive Diameters of Pipe and Fill Heights over the	Type 4	Fill Height:	Greater than 15'	not exceeding 20'	2	≥	≥	N	≥	≥	<u> </u> ≥	≥	≥	N	≥	≥	2	≥	Α	1680	1690	1700	1710	
"Table IA: Classe ective Diameters of	Type 3	Fill Height:	Greater than 10'	not exceeding 15'	=	=	===	=	=	==	=	=	=	=	=	=	=	=		=	=	Manager Control of the Control of th	1360	
for the Resp	Type 2	Fill Height:	Greater than 3'	not exceeding 10'	_					=	==					=	=		_	20000	===	=	=	
	Type 1	Fill Height:	3' and less	1' min cover	2	≥	N	=	=	>	=	Monte	-		=			Section 2.	_		***************************************	Prostriction.		
		Nominal	Diameter		12	15	18	21	24	30	36	42	48	54	09	99	72	78	84	8	96	102	108	Notes:

Notes: A number indicates the D-Load for the diameter and depth of fill and that a special design is required. Design assumptions; Water filled pipe, Type 2 bedding and Class C Walls

		for the R	Table IA: Classe espective Diameters of	Table IA: Classes of Reinforced Concrete Pipe for the Respective Diameters of Pipe and Fill Heights over the Top of the Pipe (Metric)	e Pipe er the Top of the Pipe		
	Type 1	Type 2	Туре 3	Type 4	Type 5	Type 6	Type 7
Nominal Diameter mm	Fill Height:	Fill Height:	Fill Height:	Fill Height:	Fill Height:	Fill Height:	Fill Height:
	1 m and less 0.3 m min cover	Greater than 1 m not exceeding 3 m		Greater than 3 m not Greater than 4.5 m not exceeding 4.5 m		Greater than 6 m not Greater than 7.5 m not exceeding 7.5 m	Greater than 9 m not
300	<u>></u>	=		2	<u> </u>	\ \	
375	≥	==	=	2	2	· >	· >
450	2			>	≥	>	. >
525	harmen Sandah Marah			2	M	\	>
009			=	2	≥	>	>
750	//	=	=	N	2	>	>
006	electric fields of the control of th		- AMOUNTAIN - AMOU	2	ΛΙ	>	\ \
1050			Water State of the	2	≥	>	>
1200				^1	≥	>	>
1350			To the second se	2	Α		
1500	Ganggine Scorner		**************************************	2	≥	>	>
1650		=	=	\ <u>\</u>	2	>	>
1800	-			2	>	>	<u> </u>
1950		=		2	100	110	130
2100				۸۱	100	110	130
2250			******	80	100	110	130
2400		Annual Salahan		80	100	110	130
2550			Annana Annana Annana	80	100	120	130
2700			70	80	100	120	130
Notes:					The state of the s		

Notes:
A number indicates the D-Load for the diameter and depth of fill and that a special design is required.
Design assumptions; Water filled pipe, Type 2 bedding and Class C Walls

3 and less Greater than 10°	16	Ò	Type 1		-	Type 2			Type 3			Type 4			Type 5			Type 6			Type 7	
Stand loss Creater than 3° Creater than 1° Creater than 1°			II Height:		Ī	II Height		tr.	ill Heigh!	ند	ΙÏ	II Height:		Lân.	-iii Height			Fill Height	23		Fill Height:	
2.237 x 3 x 1 2.237 x 3 x			and less nin. cover		Grex not ex	ater than «ceeding	13'	Grean not e	ater than xceeding	, 10° 3, 15°	Gree not ex	iter than cceeding	15' 20'	Gre not e	sater than exceeding	20'	not not	eater than exceeding	, 25° 130°	ng n	Greater than 30' not exceeding 35'	30' 35'
0.0064 0	N	2 2/3" x 1/2"			2 2/3" × 1/2"	3"x1"		2 2/3" x 1/2"	1 1	1	2 2/3" x 1/2"	3"x1"	1	2 2/3" x 1/2"	3"x1"	5"x1"	2 2/3" x 1/2"	3"x1"	5"x1"	2 2/3" x 1/2"	3"x1"	5"x1"
0.0079 0.064 0.	12	0.064	legging at the same		0.064			0.064			0.064			0.064			0.064			0.064		
(0.079) (0.079) <t< td=""><td>ن ب</td><td>0.064</td><td></td><td></td><td>0.064</td><td>********</td><td></td><td>0.064</td><td></td><td></td><td>0.064</td><td></td><td></td><td>0.064</td><td></td><td></td><td>0.064</td><td>***********</td><td>*********</td><td>(0.079)</td><td></td><td></td></t<>	ن ب	0.064			0.064	********		0.064			0.064			0.064			0.064	***********	*********	(0.079)		
(0.079) (0.074) (0.064) (0.064) (0.064) (0.079) (0.099) <t< td=""><td>18</td><td>(0.079)</td><td></td><td></td><td>0.064</td><td></td><td></td><td>0.064</td><td></td><td></td><td>0.064</td><td></td><td></td><td>0.064</td><td></td><td></td><td>(0.079)</td><td></td><td></td><td>(0.079)</td><td></td><td></td></t<>	18	(0.079)			0.064			0.064			0.064			0.064			(0.079)			(0.079)		
CLORDED CLOR	23	(0.079)			0.064		•	0.064			0.064			(0.079)			(0.079)			(0.079)		Publication and the second and the s
(0.109E) (0.004E) (0.004E) (0.079) (0.099)	24	(0.079)			0.064	navenosis		0.064			0.064			(0.079)			(0.079)			(0.109)		
(0.109E) (0.019E)	8	(0.109E)			0.064			0.064			(0.079)			(620.0			(0.109)			0.109		
0.109 0.109 <th< td=""><td>36</td><td>(0.109E)</td><td></td><td></td><td>0.064</td><td>-</td><td></td><td>(0.079)</td><td></td><td></td><td>(0.079)</td><td></td><td></td><td>(0.109)</td><td></td><td></td><td>0.109</td><td></td><td></td><td>(0.138E)</td><td></td><td></td></th<>	36	(0.109E)			0.064	-		(0.079)			(0.079)			(0.109)			0.109			(0.138E)		
0.109 (0.109)	42				0.064			(0.079)			(0.079)			(0.109)			(0.109E)			(0.109E)		
0.109 (0.109) 0.109 (0.109) (0	48	7	[\neg		0.079	0.079	(0.109)	0.079	(0.109)					(0.109)	0.109	(0.138E)		0.109	(0.138E)	0.109	(0.138)
0.109 0.109 <th< td=""><td>40</td><td></td><td></td><td></td><td></td><td></td><td>0.079</td><td></td><td>(0.109)</td><td>0.109</td><td></td><td></td><td></td><td>0.138)</td><td>0.109</td><td>0.109</td><td>(0.138E)</td><td>0.109</td><td>(0.138)</td><td>(0.138E)</td><td>0.138</td><td>0.138</td></th<>	40						0.079		(0.109)	0.109				0.138)	0.109	0.109	(0.138E)	0.109	(0.138)	(0.138E)	0.138	0.138
(0.138) 0.109 <	09	0.109		0.109			(0.109)		(0.109)	0.109				0.138)	0.109	0.109	(0.138E)	(0.138)	(0.138)	0.138E	(0.138E)	(0.138E)
0.138 (0.138)	99	(0.138)		0.109			(0.109)		(0.109)	0.109	-+		+	0.138)	0.109	(0.138)	(0.138E)	0.138	0.138	0.138E	(0.138E)	0.138E
0.168 (0.138) (0.168) (0.109) (0.109) 0.109	2	0.138		0.138)			(0.109)		(0.109)	0.109	0.138				(0.138)	(0.138)	(0.168E)	(0.138E)	0.138E	(0.168E)	(0.168E) (0.138E)	0.138E
0.168 (0.138)	78	0.168		0.138)		(0.109)	0.109	0.168	0.109	0.109					(0.138)	(0.138)	H0.168E	(0.138E)	0.138E	H0.168E	0.138E	(0.168E)
(0.138) (0.148) (0.148) (0.148) (0.148) (0.148) (0.148) (0.148) (0.148) (0.148) (0.148) (0.148) (0.148) (0.148) (0.148) (0.148) (0.148) (0.148) (0.148) <t< td=""><td>24</td><td>0.168</td><td>(0.138) (</td><td>0.138)</td><td>_</td><td>0.109)</td><td>0,109</td><td>0.168</td><td>0.109</td><td>0.109</td><td>-</td><td>-</td><td>-</td><td>-+</td><td>(0.138)</td><td>0.138</td><td>H0.168E</td><td></td><td>0.138E</td><td>H0.168E</td><td>(0.168E)</td><td>(0.168E)</td></t<>	24	0.168	(0.138) (0.138)	_	0.109)	0,109	0.168	0.109	0.109	-	-	-	-+	(0.138)	0.138	H0.168E		0.138E	H0.168E	(0.168E)	(0.168E)
(0.138) (0.148) (0.168) <t< td=""><td>OS 6</td><td></td><td>(0.138)</td><td>0.138)</td><td></td><td>(0.109)</td><td></td><td>~~~~</td><td>0.109</td><td>0.109</td><td></td><td></td><td>(0.138)</td><td></td><td>(0.138)</td><td>0.138</td><td></td><td>0.138E</td><td>(0.168E)</td><td></td><td>(0.168E)</td><td>(0.168E)</td></t<>	OS 6		(0.138)	0.138)		(0.109)		~~~~	0.109	0.109			(0.138)		(0.138)	0.138		0.138E	(0.168E)		(0.168E)	(0.168E)
0.109Z (0.138Z) (0.109) (0.109) (0.138) (0.138) (0.138) (0.138) (0.138) (0.138) (0.138) (0.138) (0.138) (0.138) (0.138) (0.138) (0.138) (0.138) (0.138) (0.138) (0.138) (0.148) (0.168)	900		(0.138)	0.138)		(0.109)			0.109	0.109			(0.138)		(0.138)	0.138		(0.168E)			(0.168E)	(0.168E)
0.109Z (0.138Z) 0.109 (0.138) 0.109 (0.138) 0.109 (0.138) 0.109 (0.138) 0.109 (0.138) 0.109 (0.138) 0.109 (0.138) 0.109 (0.138) 0.109 (0.138) 0.138 (0.138) 0.138 (0.168) 0.0168	7 07		0.1092	7.1092		0.109)	601.0	······································	0.108	(0.138)			(0.138)		(0.138)	0.138		(0.168E)	(0.168E)		H0.138E	H0.168E
0.109Z (0.138Z) 0.109 (0.138Z) 0.109 (0.138) 0.109 (0.138) 0.138) 0.138 0.148 <td>901</td> <td></td> <td>0.1092(1</td> <td>7.1382)</td> <td></td> <td>0.109</td> <td>0.109</td> <td></td> <td>0.109</td> <td>(0.138)</td> <td></td> <td>-</td> <td>0.138</td> <td>1</td> <td>0.138</td> <td>(0.168)</td> <td></td> <td>(0.168E)</td> <td>(0.168E)</td> <td></td> <td>H0.138E</td> <td>H0.168E</td>	901		0.1092(1	7.1382)		0.109	0.109		0.109	(0.138)		-	0.138	1	0.138	(0.168)		(0.168E)	(0.168E)		H0.138E	H0.168E
0.109Z(0.138Z) 0.109 (0.109) 0.0109 (0.138) (0.138) 0.138 (0.168)	7 1		0.1092(().138Z)		0.109		***************************************		(0.138)			0.138		(0.168)	(0.168)		(0.168E)	0.168E		H0.138E	H0.168E
0.138Z 0.138Z 0.138 0.148 0.018	220		0.109Z(C	0.1382)		0.109				(0.138)			0.138		(0.168)	(0.168)		H0.138E	H0.168E		H0.168E	H0.168E
0.138Z 0.138Z 0.138Z 0.138 0.148 0.168	126		0.138Z C	1382		0.138			0.138	0.138			(0.168)		(0.168)	(0.168)		H0.138E	H0.168E		H0.168E	H0.168E
0.138Z 0.138 0.138 0.138 0.138 0.138 0.138 0.138 0.138 0.168 <t< td=""><td>132</td><td></td><td>0.138Z C</td><td>).138Z</td><td></td><td>0.138</td><td></td><td></td><td>0.138</td><td>0.138</td><td>_</td><td></td><td>(0.168)</td><td>***************************************</td><td>0.168</td><td>0.168</td><td></td><td>H0.138E</td><td>H0.168E</td><td></td><td>H0.168E</td><td>H0.168E</td></t<>	132		0.138Z C).138Z		0.138			0.138	0.138	_		(0.168)	***************************************	0.168	0.168		H0.138E	H0.168E		H0.168E	H0.168E
0.168Z 0.168Z 0.168 0.168 0.168 0.168 0.168 0.168 0.168 0.168 0.168	38		0.1382 0	7.1382	***************************************			**************************************	0.138	0.138			0.168)	<u> </u>		H0.168E		H0.168E	H0.168E		H0.168E	
	144		0.168Z C	7.1682	1	\dashv			0.168	0.168			0.168	\pm	10.168E	H0.168E		H0.168E	H0.168E		H0.168E	

Notes:

Aluminized Type 2 Steel or Precoated Galvanized Steel shall be required for diameters up to 42" according to Article 1006.01, 1 1/2" x 1/4" corrugations shall be used for diameters less than 12". Thicknesses are based on longitudinal riveted seam fabrication, values in "()" can be reduced by one gage thickness if helical seam fabrication is allowed.

A thickness preceded by "H" indicates only helical seam fabrication is allowed.

E Elongation according to Article 542.04(e)

Z 1-6" Minimum fill

	FOR TH	E RESP	ECTIVE D	NAMETER	R OF PIPI	TABLE IB: THICKNESS OF CORRUGATED STEEL PIPE FOR THE RESPECTIVE DIAMETER OF PIPE AND FILL HEIGHTS OVER THE TOP OF THE PIPE FOR 68 mm x 13 mm, 75 mm x 25 mm AND 125 mm x 25 mm CORRUGATIONS (Metric)	TA L HEIGH	BLE 1B: TS OVEF	THICKNE 3 THE TO	SS OF COF P OF THE (Metric)	ORRUG/ E PIPE F ic)	TABLE IB: THICKNESS OF CORRUGATED STEEL PIPE GHTS OVER THE TOP OF THE PIPE FOR 68 mm x 13 m (Metric)	EEL PIPE m x 13 m	: ım, 75 m	m x 25 mi	n AND 1	25 mm x	25 mm C(ORRUGA	TIONS	
Je.		Type 1			Type 2			Type 3			Type 4			Type 5			Type 6			Type 7	T
	ű.	Fill Height:		ш.	FIII Height	ے	1	Fill Height:	2.:	ш.	Fill Height:			Fill Height:			Fill Height:			Fill Height:	
MC leni • mm	1 n 0.3 n	1 m and less 0.3 m min. cover	ss	Gre not e	Greater than 1 m not exceeding 3 m	1 m 13 m	Gre not ex	Greater than 3 m not exceeding 4.5 m	3 m 4.5 m	Greal not e	Greater than 4.5 m not exceeding 6 m	1.5 m 6 m	Gre. not ex	Greater than 6 m not exceeding 7.5 m	6 m 7.5 m	Grea	Greater than 7.5 m	,5 m	Grei	Greater than 9 m	9 m
	8	75 x 25	75 x 25 125 x 25	68 x 13	75 x 25	125 x 25	68 x 13	68 x 13 75 x 25 125 x 25	_	68 x 13	75 x 25 125 x 25	25	68 x 13	75 x 25	125 x 25	68 x 13	75 x 25	125 x 25	68 x 13	75 x 25	125 x 25
,	E	EE	E	шш	mm	mm	mm	шш	mm	mm	mm	шш	E E	E	шш	mm	mm	mm	mm		mm
300	1.63			1.63			1.63			1.63			1.63			1.63			1.63		
375	1.63			1.63			1.63			1.63	***************************************		1.63			1.63			(2.01)		
450	(2.01)			1.63			1.63			1.63			1.63			(2.01)			(2.01)		
525	(2.01)			1.63			1.63			1.63			(2.01)			(2.01)			(2.01)		
	(2.01)			1,63			1.63			1.63			(2.01)			(2.01)			(2.77)	-	
750	(2.77E)	and a second second second		1.63			1.63			(2.01)			(2.01)			(2.77)			2.77		
006	(2.77E)	***********		1.63			(2.01)			(2.01)			(2.77)			2.77			(3.51E)		Additional assessment of the Control
1050	2.01		d-market de la constantia	1.63			(2.01)			(2.01)			(2.77)			(2.77E)			(2.77E)		
1200	2.77	(2.77)	2.77	(2.77)	2.01	2.01	(2.77)	2.01	(2.77)	2.77	(2.77)	2.77	(3.51)	(2.77)	2.77	(3.51E)	2.77	2.77	(3.51E)	2.77	(3.51)
1350	2.77	(2.77)	2.77	(2.77)	2.01	2.01	2.77	(2.77)	2.77	2.77	(2.77)	2.77	(3.51)	2.77	2.77	(3.51E)	2.77	(3.51)	(3.51E)	3.51	3.51
1500	2.77	2.77	2.77	2.77	2.01	(2.77)	2.77	(2.77)	2.77	2.77	(2.77)	2.77	(3.51)	2.77	2.77	(3.51E)	(3.51)	(3.51)		(3.51E)	(3.51E)
1650	(3.51)	2.77	2.77	2.77	2.01	(2.77)	2.77	(2.77)	2.77	2.77	2.77	2.77	(3.51)	2.77	(3.51)	(3.51E)	3.51	3.51	**********	(3.51E)	3.51E
1800	3.51	2.77	(3.51)	3.51	(2.77)	(2.77)	3.51	(2.77)	2.77	3.51	2.77	2.77	3.51	(3.51)	(3.51)	(4.27E) (3.51E)	(3.51E)	3.51E	<u></u>	(3.51E)	3.51E
1950	4.27	2.77	(3.51)	4.27	(2.77)	2.77	4.27	2.77	2.77	4.27	2.77	(3.51)	4.27	(3.51)	(3.51)	H 4.27E (3.51E)	(3.51E)	3.51E	H 4.27E	3.51E	(4.27E)
2100	4.27	(3.51)	(3.51)	4.27	(2.77)	2.77	4.27	2.77	2.77	4.27	2.77	(3.51)	4.27	(3.51)	3.51	H 4.27E	4.27E (3.51E)	3.51E	H 4.27E (4.27E)	(4.27E)	(4.27E)
2250		(3.51)	(3.51)		(2.77)	2.77		2.77	2.77		(3.51)	(3.51)		(3.51)	3.51		3.51E	(4.27E)		(4.27E)	(4.27E)
2400		(3.51)	(3.51)		(2.77)	2.77		2.77	2.77		(3.51)	(3.51)		(3.51)	3.51		(4.27E)	(4.27E)		(4.27E)	(4.27E)
0007		7117	7)) '7		(2.77)	2.77	-	2.77	(3.51)		(3.51)	(3.51)		(3.51)	3.51		(4.27E)	(4.27E)		H 3.51E	H 4.27E
2700		2.772	(3.51Z)		2.77	2.77		2.77	(3.51)	1	(3.51)	3.51		3.51	(4.27)		(4.27E)	(4.27E)	-	H 3.51E	H 4.27E
2850	***************************************	2.772	(3.51Z)	energe en Are	2.77	2.77		2.77	(3.51)		(3.51)	3.51	***************************************	(4.27)	(4.27)		(4.27E)	4.27E		H 3.51E	H 4.27E
3000	enmanen.	2.772	(3.51Z)		2.77	2.77		(3.51)	(3.51)		(3.51)	3.51		(4.27)	(4.27)		H 3.51E	H 4.27E		H 4.27E	H 4.27E
3150		3.51Z	3.51Z	***************************************	3.51	3.51		3.51	3.51		3.51	(4.27)		(4.27)	(4.27)		H 3.51E H 4.27E	H 4.27E		H 4.27E	H 4.27E
3300	***************************************	3.512	3.51Z		3.51	3.51		3.51	3.51		(4.27)	(4.27)	·····	4.27	4.27		H 3.51E	H 4.27E		H 4.27E	H 4.27E
3450		3.512	3.51Z	and a second	3.51	3.51		3.51	3.51		(4.27)	(4.27)		(4.27E)	H 4.27E		H 4.27E	H 4.27E		H 4.27E	
3600		4.272	4.272		4.27	4.27		4.27	4.27	1	4.27	4.27		H 4.27E H 4.27E	H 4.27E		H 4.27E H 4.27E	H 4.27E	٦	H 4.27E	

Adminized Type 2 Steel or Precoated Galvanized Steel shall be required for diameters up to 1050 mm according to Article 1006.01, 38 mm x 6.5 mm corrugations shall be used for diameters less than 300 mm.

Thicknesses are based on longitudinal riveted seam fabrication, values in "()" can be reduced by one gage thickness if helical seam fabrication is utilized.

A thickness preceded by an "H" indicates only helical seam fabrication is allowed.

E Elongation according to Article 542.04(e)

Z 450 mm Minimum Fill Notes:

RUGATIONS	Tvpe 7	Fill Height:	55 Greater than 30' 30' not exceeding 35'	2	0.060	(0.075)	H 0.060	H 0.060E	(0.105E)	H 0.060 H 0.075E H 0.060	+-	0.105 0.105E (0.105E)		(0.105E) (0.135E) (0.135E)	(0.135E) (0.164E) (0.135E)	H 0.164E	H 0.164E		(0.164E) (0.164E)	34E) (0.164E)		34E) H 0.135E	34E) H 0.164E	H 0.164E	
TABLE IC: THICKNESS OF CORRUGATED ALUMINUM ALLOY PIPE DIAMETER OF PIPE AND FILL HEIGHTS OVER THE TOP OF THE PIPE FOR 2 2/3"x1/2" AND 3"x1" CORRUGATIONS	Type 6	Fill Height:	Greater than 25' not exceeding 30'	2 2/3"x1/2" 3";	0.060	090'0	(0.075)	H 0.060	(0.105)	Ш		0.105E 0.1	0.105E (0.10	0.105E (0.10	0.135E (0.1;	0.164E (0.135E)	H 0.164E (0.13	(0.135E)	(0.1	(0.164E)	(0.164E)	(0.164E)	(0.164E)	H 0.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
PIPE R 2 2/3"x1/2"	95	eight:	han 20° ding 25°	3"x1"						H 0.060	H 0.060	(0.075)	(0.105)	(0.105)	(0.105)	(0.135)	(0.135)	(0.135)	(0.135)	(0.135)	(0.135)	(0.164)	(0.164)	0.164	0.164
TABLE IC: THICKNESS OF CORRUGATED ALUMINUM ALLOY PIPE OF PIPE AND FILL HEIGHTS OVER THE TOP OF THE PIPE FOR 2.2/	Type 5	Fill Height:	Greater than 20' not exceeding 25'	2 2/3"x1/2"	090.0	090.0	090.0	(0.075)	(0.105)	(0.105)	(0.135)	0.105	0.105	0.105	0.135	0.164	0.164				had an or so	ali de como la			
FED ALUMII	9.4	ight:	han 15' ding 20'	3"x1"						090.0 H	H 0.060	090.0	(0.075)	(0.075)	(0.105)	(0.105)	(0.105)	(0.105)	(0.135)	(0.135)	(0.135)	0.135	0.135	0.164	0 164
CORRUGAT S OVER THE	Type 4	Fill Height:	Greater than 15' not exceeding 20'	2 2/3"x1/2"	090.0	090'0	0.060	090.0	(0.075)	(0.105)	(0.105)	0.105	0.105	0.105	0.135	0.164	0.164								
KNESS OF LL HEIGHT	9.3	ight:	han 10' ding 15'	3"x1"						H 0.060	090'0 H	090.0	090.0	090.0	(0.075)	(0.075)	(0.075)	(0.105)	0.105	0.105	0.105	0.135	0.135	0.164	0.164
LE IC: THIC PIPE AND FII	Type 3	Fill Height:	Greater than 10' not exceeding 15'	2 2/3"x1/2"	090'0	0.060	0.060	090.0	090.0	0.075	(0.105)	0.105	0.105	0.105	0.135	0.164	0.164								
TAB ETER OF F	2	ight:	han 3' ding 10'	3"x1"						H 0.060	H 0.060	090.0	090.0	090.0	090.0	090.0	090.0	0.075	0.105	0.105	0.105	0.135	0.135	0.164	0.164
	Type 2	Fill Height:	Greater than 3' not exceeding 10'	2 2/3"x1/2"	090'0	090.0	0.060	090.0	090'0	0.075	0.075	0.105	0.105	0.105	0.135	0.164	0.164								
FOR THE RESPECTIVE	+	ight:	less cover	3"x1"						H 0.060	H 0.060E	(0.075)	(0.075)	(0.105)	(0.105)	(0.105)	(0.105)	(0.135)	(0.135)	(0.135)	(0.135)	0.135Z	0.135Z	0.164Z	0.164Z
FORT	Type 1	Fill Height	3' and less 1' min, cover	2 2/3"x1/2"	(0.075)	(0.075)	(0.075)	H 0.060E	(0.105E)	H 0.075E	(0.135E)	0.105E	0.105E	0.105E	0.135E	0.164E	0.164E								
•••••	ter		J lenim ni	10N	12	45	φ.	21	24	30	36	42	48	54	09	99	7.2	78	84	06	96	102	108	4	120

Thicknesses are based on longitudinal riveted seam fabrication, values in "()" can be reduced by one gage thickness if helical seam fabrication is utilized. A thickness preceded by an "H" indicates only helical seam fabrication is allowed.

E Elongation according to Article 542.04(e), the elongation requirement for Type 1 fill heights may be eliminated for fills above 1'-6" 2 1'-6" Minimum fill.

	7	tht:	an 9 m a 10.5 m	75 x 25 mm						H 1.52	H 1.52E	(2.67E)	(3.43E)	(3.43E)	(3.43E)	(3.43E)	(4.17E)	(4.17E)	(4.17E)	(4.17E)	H 3.43E	H 3.43E	H 4.17E	H 4.17E	
	Tvpe	Fill Height:	Greater than 9 m not exceeding 10.5 m	68 x 13 mm	2	20,7	H 150	H 1.52E	(2.67E)	H 1.91E	\vdash	2.67E		(3.43E)		H 4.17E	H 4.17E		•						
	9 6	ight:	an 7.5 m ding 9 m	75 x 25 mm						H 1.52	H 1.52	2.67	(2.67E)	(2.67E)	(3.43E)	(3.43E)	(3.43E)	(3.43E)	(4.17E)	(4.17E)	(4.17E)	(4.17E)	(4.17E)	H 4.17E	H 4.17E
THE PIPE	Type 6	Fill Height:	Greater than 7.5 m not exceeding 9 m	68 x 13 mm	4 0.0	1.02	(191)	H 1.52	(2.67)	H 1.91E	H 1,91E	2.67E	2.67E	2.67E	3.43E	4.17E	H 4.17E								
OY PIPE HE TOP OF ONS	e 5	eight:	Greater than 6 m not exceeding 7.5 m	75 x 25 mm						H 1.52	H 1.52	(1.91)	(2.67)	(2.67)	(2.67)	(3.43)	(3.43)	(3.43)	(3.43)	(3.43)	(3.43)	(4.17)	(4.17)	4.17	4.17
IINUM ALLO S OVER TI PRRUGATIO	Type 5	Fill Height:	Greater than 6 m not exceeding 7.5 r	68 x 13 mm	4 50	1 53	1.52	(1.91)	(2.67)	(2.67)	(3.43)	2.67	2.67	2.67	3.43	4.17	4.17						,		
NTED ALUN ILL HEIGHT 25 mm CC	Type 4	Fill Height:	Greater than 4.5 m	75 x 25 mm						H 1.52	H 1.52	1.52	(1.91)	(1.91)	(2.67)	(2.67)	(2.67)	(2.67)	(3.43)	(3.43)	(3.43)	3.43	3.43	4.17	4.17
CORRUGA PE AND FI D 75 mm x (Metric)	TyF	I	Greater to	68 x 13 mm	4 52	1.52	1.52	1.52	(1.91)	(2.67)	(2.67)	2.67	2.67	2.67	3.43	4.17	4.17								
NESS OF (TER OF PII 13 mm AN	е 3	eight:	han 3 m ling 4.5 m	75 x 25 mm						H 1.52	H 1.52	1.52	1.52	1.52	(1.91)	(1.91)	(1.91)	(2.67)	2.67	2.67	2.67	3.43	3.43	4.17	4.17
TABLE IC: THICKNESS OF CORRUGATED ALUMINUM ALLOY PIPE FOR THE RESPECTIVE DIAMETER OF PIPE AND FILL HEIGHTS OVER THE TOP OF THE PIPE FOR 68 mm x 13 mm AND 75 mm x 25 mm CORRUGATIONS (Metric)	Type 3	Fill Height:	Greater than 3 m not exceeding 4.5 m	68 x 13 mm	1 52	152	1.52	1.52	1.52	1.91	(2.67)	2.67	2.67	2.67	3.43	4.17	4.17								
TABLE RESPECT FO	Type 2	Fill Height:	Greater than 1 m not exceeding 3 m	75 x 25 mm						H 1.52	H 1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.91	2.67	2.67	2.67	3.43	3.43	4.17	4.17
FOR THE	Tyf	Ī	Greater not excee	68 x 13 mm	1.52	1.52	1.52	1.52	1.52	1.91	1.91	2.67	2.67	2.67	3,43	4.17	4.17								
	e 1	aight:	d less n. cover	75 x 25 mm						H 1.52	H 1.52E	(1.91)	(1.91)	(2.67)	(2.67)	(2.67)	(2.67)	(3,43)	(3.43)	(3.43)	(3.43)	3.43Z	3.43Z	4.172	4.17Z
	Type 1	Fill Heigh	1 m and less 0.3 m min. cover	68 x 13 mm	(191)	(1,91)	(1.91)	H 1.52E	(2.67E)	H 1.91E	(3.43E)	2.67E	2.67E	2.67E	3,43E	4.17E	4.17E			***********					
	16	təme	iO Isni mm	moM	300	375	450	525	009	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000

Notes:
Thicknesses are based on longitudinal riveted seam fabrication, values in "()" can be reduced by one gage thickness if helical seam fabrication is utilized.
A thickness preceded by an "H" indicates only helical seam fabrication is allowed.
E Elongation according to Article 542.04(e), the elongation requirement for Type 1 fill heights may be eliminated for fills above 450 mm.

Table IIA: THICKNESS FOR CORRUGATED STEEL PIPE ARCHES AND CORRUGATED ALUMINUM ALLOY PIPE ARCHES FOR THE RESPECTIVE EQUIVALENT ROUND SIZE OF PIPE AND FILL HEIGHTS OVER THE TOP OF PIPE	Type 3 Type 2 Type 3	Streel Min. Fill Height: Fill H		Span Rise Steel 8 Steel Aluminum Steel Aluminum Steel Aluminum	(in.)	0.064	0.064 0.060 0.064 0.060 0.064	0.064	(0.079) (0.105) 0.064 0.075 0.064	(0.079) (0.105) 0.064 (0.075)	1-6" (0.079) 0.105 0.064 0.105 0.064		41 1-6" 0.109 (0.109) (0.109) 0.135 0.060 0.109 0.079 0.079 0.135 0.060 0.109 0.079 (0.109)	60 46 1-6" 0.109 (0.109) 0.109 0.164 (0.075) 0.109 0.079 0.079 0.079 0.079 0.164 0.060 0.109 (0.109) 0.109 0.109 0.164 (0.075)	51	55 1'-6" 0.168 (0.109) 0.109 0.075 0.168 0.079 (0.109) 0.075 0.168 (0.109) 0.109	81 59 1'-6" 0.168 (0.109) 0.109 0.109 0.105 0.168 0.079 (0.109) 0.105 0.168 (0.109) 0.109 0.105	63	29	71 1 ⁺ 6" 0.109 0.109 0.109 0.135 (0.109) 0.109 0.109 0.109 0.109	75	62	128 83 1"6" 0.138 0.138 0.138 0.138 0.138	28	142 91 1'-6" 0.168 0.168 0.168 0.168 0.168 0.168
THICKNESS FOR CORRUGATE OR THE RESPECTIVE EQUIVALE	70			Steel &	Aluminum 2 2/3" x 1/2"	<u> </u>		\dashv					1'-6" 0.109	1'-6" 0.109	1'-6" 0.138	1'-6" 0,168	1'-6" 0.168	1,-6*	16"	1,-6"	1,-6"	1,-6"	1,-6"	1,-6"	1:-6"
Table IIA: FR	ed Corrugated	Steel & Aluminum	2 2/3" x 1/2" 3" x 1" 5" x	Rise Span Rise	(in.) (in.)	17 13		24 18			42 29	49 33	38 53 41	43 60 46	47 66 51	52 73 55	83 57 81 59 81	63	19	77	75	6/	128 83 128	87	142 91 142
). Round	ıl əzis			35	<u>&</u>	21	24	30	36	42	84	54	09	99	7.7	78	20	06	96	70.	8	7.7	150

Notes:

* Aluminized Type 2 Steel or Precoated Galvanized Steel shall be required for steel spans up to 42" according to Article 1006.01.

*Thicknesses are based on longitudinal riveted seam fabrication, values in "(")" can be reduced by one gage thickness if helical seam fabrication is utilized. The Type 1 corrugated steel or aluminum pipe arches shall be placed on soil having a minimum bearing capacity of 3 tons per square foot.

The Type 2 and 3 corrugated steel or aluminum pipe arches shall be placed on soil having a minimum bearing capacity of 2 tons per square foot. This minimum bearing capacity will be determined by the Engineer in the field.

				ř	able IIA	THIC FOR TH	Table IIA: THICKNESS FOR CORRUGATED STEEL PIPE ARCHES AND CORRUGATED ALUMINUM ALLOY PIPE ARCHES FOR THE RESPECTIVE EQUIVALENT ROUND SIZE OF PIPE AND FILL HEIGHTS OVER THE TOP OF PIPE (Metric)	OR CORF	tUGATEI tUIVALE,	D STEEL NT ROUI	PIPE ARI ND SIZE (ME	ARCHES AN ZE OF PIPE (Metric)	ND CORF	RUGATE L HEIGH	ED ALUM	INUM AL	OP OF P	E ARCHI IPE	ES			
92	Corrugated	aled	Corrugated	rated						Type 1					Type 2					Type 3		
		mum -	Steel & Aluminum	ninum	Comugated Steel Pipe Arch	Corrugated Steel Pipe Arch	Min. Cover			Fill Height:	ıt:				Fill Height:	++				Fill Height:		of the best of the constant of
oA tnəl (mm)	68 x 13 mm	mm mm	Pipe Arch 75 x 25 mm	Arch 5 mm	125 x ;	125 x 25 mm			-	1 m and less	SSE		Grea	iter than	Greater than 1 m not exceeding 3 m	exceedin	m 2 f	Great	er than 3	Greater than 3 m not exceeding 4.5 m	seeding 4	t.5 m
eviu	Span	Rise	Span	Rise	Span	Rise	Steel &		Steel		Aluminum	inum		Steel		Alum	Aluminum		Steel		Alum	Aluminum
93					(mm)		Q.		75 x 25 mm	68 x 13 75 x 25 125 x 25	1	68 x 13 75 x 25		75 x 25	68 x 13 75 x 25 125 x 25 68 x 13 75 x 25	68 x 13	75 × 25	68 x 13	22	55	68 x 13	75 x 25
375	430	330					0.5 m	1.63			1.52		1 63			1 52		1 63			4 60	
450	530	380					0.5 m	1.63			1.52		1.63			1.52		1.63			1.52	
525	610	460					0.5 m	1.63			(1.91)		1.63			1.52		1,63			1.52	
900		510					0.5 m	(2.01)			(2.67)		1.63			1.91		1.63			1.91	
750		630					0.5 m	(2.01)			(2.67)		1,63			1.91		(2.01)			(2.67)	
8	1060	740	Aireachannas				0.5 m	(2.01)			2.67		1.63			2.67		1.63			2.67	
1050	1240	840					0.5 m	2.77			2.67		(2.77)			2.67		(2.77)			2.67	
1200	1440	-		1050	1340	1050	0.5 m	2.77	(2.77)	(2.77)	3.43	1.52	2.77	2.01	2.01	3.43	1.52	2.77	2.01	(2.77)	3.43	1.52
1350	1620	1100	1520	1170	1520	1170	0.5 m	2.77	(2.77)	2.77	4.17	(1.91)	2.77	2.01	2.01	4.17	1.52	2.77	(2.77)	2.77	4.17	(1.91)
1500	1800		1670	1300	1670	1300	0.5 m	3.51	(2.77)	2.77	4.17	(1.91)	3.51	2.01	(2.77)	4.17	1.52	3.51	(2.77)	2.77	4.17	(1.91)
1650	1950			1400	1850	1400	0.5 m	4.27	(2.77)	2.77		1.91	4.27	2.01	(2.77)		1.91	4.27	(2.77)	2.77		1.91
1800	2100	1450	2050	1500	2050	1500	0.5 m	4.27	(2.77)	2.77		2.67	4.27	2.01	(2.77)		2.67	4.27	(2.77)	2.77	***************************************	2.67
1950	talian			1620	2200	1620	0.5 m		2.77	2.77		2.67		(2.77)	2.77		2.67		2.77	2.77		2.67
2100					2400	1720	0.5 m		2.77	2.77		2.67		(2.77)	2.77		2.67		2.77	2.77		2.67
2250	**************************************		2600	1820	2600	1820	0.5 m		2.77	2.77		3.43		(2.77)	2.77		3.43		2.77	2.77		3,43
2400			2840	1920	2840	1920	0.5 m		2.77	(3.51)		4.17		2.77	2.77		4.17		2.77	(3.51)		4.17
2550		•••••			2970	2020	0.5 m		2.77	(3.51)		4.17		2.77	2.77		4.17		2.77	(3.51)		4.17
2700		1	3240	2120	3240	2120	0.5 m		3.51	3.51				3.51	3.51				3.51	3.51	•	
2850				2220	3470	2220	0.5 m		3.51	3.51				3.51	3.51				3.51	3.51		
3000		\dashv	3600	2320	3600	2320	0.5 m		4.27	4.27				4.27	4.27				4.27	4.27	-Circusture	

Notes:

Aluminized Type 2 Steel or Precoated Galvanized Steel shall be required for steel spans up to 1060 mm according to Article 1006.01.
Thicknesses are based on longitudinal riveted seam fabrication, values in "()" can be reduced by one gage thickness if helical seam fabrication is utilized. The Type 1 corrugated steel or aluminum pipe arches shall be placed on soil having a minimum bearing capacity of 290 kN per square meter. The Type 2 and 3 corrugated steel or aluminum pipe arches shall be placed on soil having a minimum bearing capacity of 192 kN per square meter. This minimum bearing capacity will be determined by the Engineer in the field.

			_	_							.,		_	-		
	Type 3	Fill Height: Greater than 10' not exceeding 15'	Arch	A-IV	A-IV	A-IV	A-IV	A-IV	A-IV	A-IV	A-IV	1450	1460	1470	1480	1480
CH PIPE F PIPE	Typ	Fill H. Greater th exceed	뷔	HE-IV	HE-IV	HE-IV	HE-IV	HE-IV	HE-IV	HE-IV	HE-IV	1460	1460	1460	1470	1470
CRETE AR	Type 2	Fill Height: Greater than 3' not exceeding 10'	Arch	H-H	A-III	H-H	H-H	A-III	A-III	A-III	A-III	H-W	A-III	A-III	₩-W	A-III
RCED CON	Typ	Fill H Greater th exceec	뽀	里里	≡-Ψ	≡Ψ	量业	무-	≡Ψ	岩岩	H-H	≡Ψ	HE-II	H-H	里当	里出
ID REINFOF FILL HEIGH	e 1	7ill Height: 3' and less	Arch	A-III	A-III	H-H	A-III	A-III	H-III	A-II	A-II	A-II	A-III	A-II	A-II	A-II
PTICALL AN PIPE AND	Type 1	Fill Height: 3' and les	里	量坐	≡-Ψ	= -₩	≡−Ψ	H-H	=- - 	HE-II	平	皇	Ŧ	- 里	H	<u>-</u> #
Table IIB: CLASSES OF REINFORCED CONCRETE ELLIPTICALL AND REINFORCED CONCRETE ARCH PIPE FOR THE RESPECTIVE EQUIVALENT ROUND SIZE OF PIPE AND FILL HEIGHTS OVER THE TOP OF PIPE		Minimum Cover	RCCP HE & A	1' -0"	1,-0,,	1, -0,,	1' -0"	1, -0."	1'-0"	1, -0,"	1' -0"	1, -0,"	1, -0."	1, -0,,	10"	1, -0,
JFORCED (UIVALENT		Reinforced Concrete Arch pipe (in.)	Rise	#	13 1/2	15 1/2	18	22 1/2	22 1/2	26 5/8	31 5/16	36	40	45	54	54
S OF REIN ECTIVE EQ		Reinf Con Arch pi	Span	18	22	56	28 1/2	36 1/4	36 1/4	43 3/4	51 1/8	58 1/2	65	73	88	88
3: CLASSE HE RESPE	Dainforcad	Concrete Elliptical pipe (in.)	Rise	14	4	19	19	22	24	29	34	38	43	48	53	58
Table IIB: CLA FOR THE RE	Doio	Con Elliptic (ii	Span	23	23	30	30	34	38	45	23	09	99	9/	83	91
	de de la composição de la	Equivalent Round Size (in.)		15	<u>&</u>	21	24	27	30	36	42	48	54	09	99	72

Notes:
A number indicates the D-Load for the diameter and depth of fill and that a special design is required.
Design assumptions; Water filled pipe, AASHTO Type 2 installation per AASHTO LRFD Table 12.10.2.1-1

	Type 3	Fill Height: Greater than 3 m not exceeding 4.5 m	Arch	A-IV	A-IV	A-I∨	A-IV	A-I∨	A-IV	A-IV	A-IV	70	70	70	202	02
ш	Typ	Fill H. Greater th exceeding	H	HE-IV	HE-IV	HE-IV	HE-1V	HE-1V	HE-IV	HE-IV	HE-IV	70	70	70	70	02
TE ARCH PIP	9.2	sight: in 1 m not ng 3 m	Arch	A-III	A-III	H-H	H-H	A-III	₩-₩	A-III	A-III	Η-ΙΙ	H-H	A-III	H-H	A-III-A
OVER THE	Type 2	Fill Height: Greater than 1 m not exceeding 3 m	里	HE-III	HE-I	≡−Ψ	HE-III	HE-III	HE-H	≡ -₩	HE-III	≡-¥H	HE-#	HE-#	HE-III	≕Ψ
REINFORCE	e 1	eight: d less	Arch	A-III	A-III	A-III	A-III	H-III	A-III	H-H	A-II	A-II	H-H	H-H	H-A	H-A
PTICALL AND F PIPE AND F ic)	Type 1	Fill Height: 1 m and less	4	≡−男	量出	里里	= Ψ	HE-H	≡Ψ	HE-II	H	¥	¥	Ή	Ŧ	<u></u>
O CONCRETE ELLIPT AT ROUND SIZE OF F (Metric)		Minimum Cover	RCCP HE & A	0.3 m	0.3 m	0.3 m	0.3 m	0.3 m	0.3 m	0.3 m	0.3 m	0.3 m	0.3 m	0.3 m	0.3 m	0.3 m
KEINFORCEE		Reinforced Concrete ch pipe (mm)	Ríse	279	343	394	457	572	572	9/9	262	914	1016	1143	1372	1372
Table IIB: CLASSES OF REINFORCED CONCRETE ELLIPTICALL AND REINFORCED CONCRETE ARCH PIPE FOR THE RESPECTIVE EQUIVALENT ROUND SIZE OF PIPE AND FILL HEIGHTS OVER THE TOP OF PIPE (Metric) Type 1 Type 2 Reinforced Reinforced	Reinforced Concrete Arch pipe (mm)	Span	457	559	099	724	921	921	1111	1299	1486	1651	1854	2235	2235	
	Reinforced Concrete Elliptical pipe (mm)	Rise	356	356	483	483	559	610	737	864	965	1092	1219	1346	1473	
		Reir Cor Elliptical	Span	584	584	762	762	864	365	1143	1346	1524	1727	1930	2108	2311
		Equivalent Round Size (mm)		375	450	525	009	989	750	006	1050	1200	1350	1500	1676	1800

Notes:
A number indicates the D-Load for the diameter and depth of fill and that a special design is required.
Design assumptions; Water filled pipe, AASHTO Type 2 installation per AASHTO LRFD Table 12.10.2.1-1

Notes:
PVC Polyvinyl Chloride (PVC) pipe with a smooth interior
CPVC Corrugated Polyvinyl Chloride (CPVC) pipe with a smooth interior
PE Polyethylene (PE) pipe with a smooth interior
CPE Corrugated Polypthylene (PE) pipe with a smooth interior
CPP Corrugated Polyptropylene (CPP) pipe with a smooth interior
CPP Corrugated Polyptropylene (CPP) pipe with a smooth interior
X This material may be used for the given pipe diameter and fill height
NA Not Available

Notes:
PVC Polyvinyl Chloride (PVC) pipe with a smooth interior
CPVC Corrugated Polyvinyl Chloride (CPVC) pipe with a smooth interior
PE Polyethylene (PE) pipe with a smooth interior
CPE Corrugated Polyethylene (PE) pipe with a smooth interior
CPP Corrugated Polypropylene (CPP) pipe with a smooth interior
X This material may be used for the given pipe diameter and fill height
NA Not Available

	HE PIPE	Type 7	Fill Height: Greater than 30', not exceeding 35'	CPVC	×		X		×	X	: ×	~ ×	AN	NA
PERMITTED	FOR A GIVEN PIPE DIAMETER AND FILL HEIGHT OVER THE TOP OF THE PIPE	9	Fill Height: Greater than 25', not exceeding 30'											
STIC PIPE	FILL HEIGH	Type 6	reater than	CPVC	×	×	×	×	×	×	×	×	ΑΝ	NA
TABLE IIIB: PLASTIC PIPE PERMITTED	MAMETER AND		Fill Height: G	PVC	×	×	×	×	×	×	×	×	×	×
	FOR A GIVEN PIPE D	5	Fill Height: Greater than 20', not exceeding 25'											
		Type 5	Greater than	CPVC	×	×	×	×	×	×	×	×	ΑN	AN
			Fill Height:	PVC	×	×	×	×	×	×	×	×	×	×
			Nominal Diameter	(i.j.	10	12	15	\$	21	24	30	36	42	48

Notes:
PVC Polyvinyl Chloride (PVC) pipe with a smooth interior
CPVC Corrugated Polyvinyl Chloride (CPVC) pipe with a smooth interior
X This material may be used for the given pipe diameter and fill height
NA Not Available

THE PIPE	Type 7	Fill Height: Greater th	CPVC	X	· · ·	×	< ×	×	×	· ×	: ×	AN	₹Z.Z.
TABLE IIIB: PLASTIC PIPE PERMITTED FOR A GIVEN PIPE DIAMETER AND FILL HEIGHT OVER THE TOP OF THE PIPE (metric)	9	Fill Height: Greater than 7.5 m, not exceeding 9 m											
LASTIC PIPE ID FILL HEIG (metric)	Type 6	reater than 7.	CPVC	×	:×	×	×	×	×	×	×	ΑX	A A
TABLE IIIB: P DIAMETER AN			PVC	×	×	×	×	×	×	×	×	×	×
FOR A GIVEN PIPE	9	n, not exceeding 7.5 m											
	Type 5	eater than 6 m	CPVC	×	×	×	×	×	×	×	×	NA	A
		Fill Height: Greater than 6 m, not	PVC	×	×	×	×	×	×	×	×	×	×
		Nominal	(mm)	250	300	375	450	525	009	750	900	1000	1200

Notes: PVC CPVC PE X NA

Polyvinyl Chloride (PVC) pipe with a smooth interior Corrugated Polyvinyl Chloride (CPVC) pipe with a smooth interior Polyethylene (PE) pipe with a smooth interior This material may be used for the given pipe diameter and fill height Not Available"

Revise the first sentence of the first paragraph of Article 542.04(c) of the Standard Specifications to read:

"Compacted aggregate, at least 4 in. (100 mm) in depth below the pipe culvert, shall be placed the entire width of the trench and for the length of the pipe culvert, except compacted impervious material shall be used for the outer 3 ft (1 m) at each end of the pipe culvert."

Revise the seventh paragraph of Article 542.04(d) of the Standard Specifications to read:

"PVC, PE and CPP pipes shall be joined according to the manufacturer's specifications."

Replace the third sentence of the first paragraph of Article 542.04(h) of the Standard Specifications with the following:

"The total cover required for various construction loadings shall be the responsibility of the Contractor."

Delete "Table IV: Wheel Loads and Total Cover" in Article 542.04(h) of the Standard Specifications.

Revise the first and second paragraphs of Article 542.04(i) of the Standard Specifications to read:

"(i) Deflection Testing for Pipe Culverts. All PE, PVC and CPP pipe culverts shall be tested for deflection not less than 30 days after the pipe is installed and the backfill compacted. The testing shall be performed in the presence of the Engineer.

For PVC, PE, and CPP pipe culverts with diameters 24 in. (600 mm) or smaller, a mandrel drag shall be used for deflection testing. For PVC, PE, and CPP pipe culverts with diameters over 24 in. (600 mm), deflection measurements other than by a mandrel shall be used "

Revise Articles 542.04(i)(1) and (2) of the Standard Specifications to read:

- "(1) For all PVC pipe: as defined using ASTM D 3034 methodology.
- (2) For all PE and CPP pipe: the average inside diameter based on the minimum and maximum tolerances specified in the corresponding ASTM or AASHTO material specifications."

Revise the second sentence of the second paragraph of Article 542.07 of the Standard Specifications to read:

"When a prefabricated end section is used, it shall be of the same material as the pipe culvert, except for polyethylene (PE), polyvinylchloride (PVC), and polypropylene (PP) pipes which shall have metal end sections."

Revise the first paragraph of Article 1040.03 of the Standard Specifications to read:

"1040.03 Polyvinyl Chloride (PVC) Pipe. Acceptance testing of PVC pipe and fittings shall be accomplished during the same construction season in which they are installed. The section properties shall be according to the manufacturer pre-submitted geometric properties on file with the Department. The manufacturer shall submit written certification that the material meets those properties. The pipe shall meet the following additional requirements."

Delete Articles 1040.03(e) and (f) of the Standard Specifications.

Revise Articles 1040.04(c) and (d) of the Standard Specifications to read:

- "(c) PE Profile Wall Pipe for Insertion Lining. The pipe shall be according to ASTM F 894. When used for insertion lining of pipe culverts, the pipe liner shall have a minimum pipe stiffness of 46 psi (317 kPa) at five percent deflection for nominal inside diameters of 42 in. (1050 mm) or less. For nominal inside diameters of greater than 42 in. (1050 mm), the pipe liner shall have a minimum pipe stiffness of 32.5 psi (225 kPa) at five percent deflection. All sizes shall have wall construction that presents essentially smooth internal and external surfaces.
- (d) PE Pipe with a Smooth Interior. The pipe shall be according to ASTM F 714 (DR 32.5) with a minimum cell classification of PE 335434 as defined in ASTM D 3350. The section properties shall be according to the manufacturer pre-submitted geometric properties on file with the Department. The manufacturer shall submit written certification that the material meets those properties and the resin used to manufacture the pipe meets or exceeds the minimum cell classification requirements."

Add the following to Section 1040 of the Standard Specifications:

"1040.08 Polypropylene (PP) Pipe. Storage and handling shall be according to the manufacturer's recommendations, except in no case shall the pipe be exposed to direct sunlight for more than six months. Acceptance testing of the pipe shall be accomplished during the same construction season in which it is installed. The section properties shall be according to the manufacturer pre-submitted geometric properties on file with the Department. The manufacturer shall submit written certification that the material meets those properties. The pipe shall meet the following additional requirements.

- (a) Corrugated PP Pipe with a Smooth Interior. The pipe shall be according to AAHSTO M 330 (nominal size 12 to 60 in. (300 to 1500 mm)). The pipe shall be Type S or D.
- (b) Perforated Corrugated PP Pipe with A Smooth Interior. The pipe shall be according to AASHTO M 330 (nominal size 12 to 60 in. (300 to 1500 mm)). The pipe shall be

Type SP. In addition, the top centerline of the pipe shall be marked so that it is readily visible from the top of the trench before backfilling, and the upper ends of the slot perforations shall be a minimum of ten degrees below the horizontal."

LRFD STORM SEWER BURIAL TABLES (BDE)

Effective: November 1, 2013

Revised: April 1, 2015

Revise Article 550.02 of the Standard Specifications to read as follows:

"Item	Article Section
(a) Clay Sewer Pipe	1040.02
(b) Extra Strength Clay Pipe	
(c) Concrete Sewer, Storm Drain, and Culvert Pipe	
(d) Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe	1042
(e) Reinforced Concrete Elliptical Culvert, Storm Drain, and Sewer Pipe (Note	e 1) 1042
(f) Reinforced Concrete Arch Culvert, Storm Drain, and Sewer Pipe (Note 1)	1042
(g) Polyvinyl Chloride (PVC) Pipe	1040.03
(h) Corrugated Polyvinyl Chloride (PVC) Pipe with a Smooth Interior	1040.03
(i) Corrugated Polypropylene (CPP) Pipe with Smooth Interior	1040.08
(j) Rubber Gaskets and Preformed Flexible Joint Sealants for Concrete Pipe	1056
(k) Mastic Joint Sealer for Pipe(l) External Sealing Band	1055
(I) External Sealing Band	1057
(m) Fine Aggregate (Note 2)	1003.04
(n) Coarse Aggregate (Note 3)	1004.05
(o) Reinforcement Bars and Welded Wire Fabric	
(p) Handling Hole Plugs	1042.16
(q) Polyethylene (PE) Pipe with a Smooth Interior	
(r) Corrugated Polyethylene (PE) Pipe with a Smooth Interior	1040.04

Note 1. The class of elliptical and arch pipe used for various storm sewer sizes and heights of fill shall conform to the requirements for circular pipe.

Note 2. The fine aggregate shall be moist.

Note 3. The coarse aggregate shall be wet."

Revise the table for permitted materials in Article 550.03 of the Standard Specifications as follows:

"Class	Materials
Α	Rigid Pipes:
	Clay Sewer Pipe
	Extra Strength Clay Pipe
***	Concrete Sewer, Storm Drain, and Culvert Pipe
	Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe
	Reinforced Concrete Elliptical Culvert, Storm Drain, and Sewer Pipe
	Reinforced Concrete Arch Culvert, Storm Drain, and Sewer Pipe
В	Rigid Pipes:
	Clay Sewer Pipe
	Extra Strength Clay Pipe
	Concrete Sewer, Storm Drain, and Culvert Pipe
	Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe
	Reinforced Concrete Elliptical Culvert, Storm Drain, and Sewer Pipe
	Reinforced Concrete Arch Culvert, Storm Drain, and Sewer Pipe
	Flexible Pipes:
	Polyvinyl Chloride (PVC) Pipe
	Corrugated Polyvinyl Chloride Pipe (PVC) with a Smooth Interior
	Polyethylene (PE) Pipe with a Smooth Interior
	Corrugated Polyethylene (PE) Pipe with a Smooth Interior
	Corrugated Polypropylene (CPP) Pipe with a Smooth Interior"

Replace the storm sewers tables in Article 550.03 of the Standard Specifications with the following:

			FOR	KIN A GIVEN	KIND OF MATERIAL /EN PIPE DIAMETER	TERIAL F VMETERS	STORN PERMITT 3 AND FI	STORM SEWERS ERMITTED AND S AND FILL HEIGHT	STORM SEWERS KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF	TH REQU		THE PIPE				
****				Type 1	-							Type 2	2			
Nominal Diameter in		The second secon	E With	Fill Height: 3 With 1' minin	Fill Height: 3' and less With 1' minimum cover						Ī	Fill Height: Greater than not exceeding 10'		3.		
	RCCP	CSP	ESCP	PVC	CPVC	Д	CPE	CPP	RCCP	CSP	ESCP	PVC	CPVC	PE	CPE	CPP
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12	≥	¥ N	×	×	×	×	×	×	=		×	×	: ×	×	: ×	í×
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5 7	=	ΑZ Z	AN	×	×	×	×	×	=	2	×	×	×	×	×	×
27	= :	¥:	Ž:	¥.	¥	¥ X	¥	Ϋ́	=	3	×	AN	A	AN	Ϋ́	AA
300	≥	A V	Δ Z	×	×	×	×	×		က	×	×	×	×	×	×
33		NA	¥N	ΑN	ΑN	ΑN	NA A	ΑĀ	=	NA	×	A A	¥	Ä	¥	¥
36	;	ĕ Z	₹ Z	×	×	×	×	×	_	Ä	×	×	×	×	×	×
42	== :	Z:	×:	×	Υ Z	×	×	¥ N	=	Ϋ́	×	×	¥	×	¥	ž
48		ΨZ Z	×	×	A V	×	×	×	=	Ϋ́	×	×	Ϋ́	×	ž	¥
54	= :	≨ :	¥:	¥:	ž	¥ Z	¥ X	₹	=	AA	AA	NA	AN	ΑN	NA	AA
90	= :	₹ Z	Y N	ž	Z Z	ž	¥ X	×		¥	¥ X	ΑN	¥	AN	ž	×
99	= :	₹	NA	¥N.	AA	Y Y	Α	NA A	=	Ā	AA	NA	AN	Ϋ́	¥	ž
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P Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe
Concrete Sewer, Storm drain, and Culvert Pipe
Polyvinyl Chloride Pipe
C Corrugated Polyvinyl Chloride Pipe
P Extra Strength Clay Pipe
Polyethylene Pipe with a Smooth Interior
Corrugated Polyethylene Pipe with a Smooth Interior
Corrugated Polypropylene pipe with a Smooth Interior

RCCSP CSP PVC CPVC CPE CPE CPP NA

This material may be used for the given pipe diameter and fill height. This material is Not Acceptable for the given pipe diameter and fill height. May also use Standard Strength Clay Pipe

			FO	KIND OF FOR A GIVEN PIPE		STC MATERIAL PI DIAMETERS		SEWERS (TTED AND FILL HEIG	EWERS (Metric) TED AND STRENGTH REQUIRED FILL HEIGHTS OVER THE TOP OF	STH REQI	QUIRED TOP OF THE PIPE	E PIPE				
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375	2	¥.	ΑΝ	×	×	¥	×	×	=	-	×	×	×	A A	×	×
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000		YY.	NA	×	×	×	×	×	=	2	×	×	×	×	×	×
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1350	=	¥	A N	¥	A A	¥	Α̈́	¥		AA	NA	ΑĀ	Ϋ́	Ϋ́	¥	Ϋ́
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Concrete Sewer, Storm drain, and Culvert Pipe
Concrete Sewer, Storm drain, and Culvert Pipe
Concrete Sewer, Storm drain, and Culvert Pipe
Polyvinyl Chloride Pipe
Corrugated Polyvinyl Chloride Pipe
Corrugated Polyvinyl Chloride Pipe
Polyethylene Pipe with a Smooth Interior
Corrugated Polypropylene Pipe with a Smooth Interior
Corrugated Polypropylene Pipe with a Smooth Interior
Corrugated Polypropylene Pipe with a Smooth Interior
This material may be used for the given pipe diameter and fill height.
This material is Not Acceptable for the given pipe diameter and fill height.
May also use Standard Strength Clay Pipe

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F MATER	3	Fill Height: Greater than 10 not exceeding 15'	CPVC	×	×	×	×	×	×	ΑĀ	×	ΑΑ	×	¥	ΑN	ΑĀ	Α	AN	Υ	ΑĀ	NA	AN	ΑA	ΑĀ	NA
KIND O	Type 3	eight: Greater than not exceeding 15'	PVC	×	×	×	×	×	×	¥	×	¥	×	×	×	¥.	N A	¥	Υ X	A A	AA	¥ X	¥ Z	¥	ΨN.
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CSP CSP CSP CSP CSP NA Note

Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe
Concrete Sewer, Storm drain, and Culvert Pipe
Polyvinyl Chloride Pipe
Extra Strength Clay Pipe
Extra Strength Clay Pipe
Polysthylene Pipe with a Smooth Interior
Corrugated Polyvinylene Pipe with a Smooth Interior
Corrugated Polyvinylene Pipe with a Smooth Interior
This material may be used for the given pipe diameter and fill height.
This material is Not Acceptable for the given pipe diameter and fill height.
May also use Standard Strength Clay Pipe
RCCP with a number instead of a Roman numeral shall be furnished according to AASHTO M170 Section 6. This number represents the D-load to produce a 0.01 in crack.

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	Type 4	ight: Greater than	PVC	×	×	×	×	×	×	ΑN	×	¥	×	×	×	¥	Ā	ΑA	Ν	¥	ΑĀ	AA	¥	Α̈́	A
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STORM S KIND OF MATERIAL PERMIT EN PIPE DIAMETERS AND	3	Fill Height: Greater than 3 m not exceeding 4.5 m	CPVC	×	×	\times	×	×	×	ΑN	×	NA	×	¥	NA	ΑĀ	Α	¥	¥	A A	¥	¥	₹	N A	ΑN
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Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe Concrete Sewer, Storm drain, and Culvert Pipe Polyvinyl Chloride Pipe

RCCCP CSP CPVC ESCP PE CPE CPE NA

Corrugated Polyvinyl Chloride Pipe
Extra Strength Clay Pipe
Extra Strength Clay Pipe
Polyethylene Pipe with a Smooth Interior
Corrugated Polypropylene Pipe with a Smooth Interior
Corrugated Polypropylene Pipe with a Smooth Interior
Corrugated Polypropylene Pipe with a Smooth Interior
This material may be used for the given pipe diameter and fill height.
This material is Not Acceptable for the given pipe diameter and fill height.
May also use Standard Strength Clay Pipe
RCCP with a number instead of a Roman numeral shall be furnished according to AASHTO M170 Section 6. This number represents the metric D-load to produce a 25.4 micro-meter crack.

FOR Nominal Diameter in. 10 12 15 15 15 15 15 15 15 15 15 15 15 15 15	KINE KINE NOT & GIVEN I NOT & CCP IN NOT & C	KIND OF MATERIAL F A GIVEN PIPE DIAMETERS Type 5 Type 5 Fill Height: Greater than 20' not exceeding 25' NA X X X IV X X X X X X X IV X X X X X X X X IV X X X X X X X X X X X X X X X X X X X	TERIAL PELS A METERS A NA N	STORM SEWERS ERMITTED AND S AND FILL HEIGHT. Typ Typ Typ Typ Typ Typ Typ T	PRM SEWERS IITTED AND STRENGTH RI D FILL HEIGHTS OVER THI Type 6 Fill Height: Greater than 25' not exceeding 30' RCCP PVC CPVC NA X X X V X X X V X X X V X X X V X X X V X X X X	STORM SEWERS	Fill Height: Greater than 20' Fill Height: Greater than 20	
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RCCP PVC CPVC ESCP X NA Note

Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe
Polyvinyl Chloride Pipe
Corrugated Polyvinyl Chloride Pipe
Extra Strength Clay Pipe
This material may be used for the given pipe diameter and fill height.
This material is Not Acceptable for the given pipe diameter and fill height.
RCCP with a number instead of a Roman numeral shall be furnished according to AASHTO M170 Section 6. This number represents the D-load to produce a 0.01 in crack.

STORM SEWERS (metric) KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF THE PIPE	Type 6 Type 7	Fill Height: Greater than 25' Fill Height: Greater than 30' not exceeding 30' not exceeding 35'	PVC CPVC RCCP CPVC	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	< >	> >	^ ×	>>>	×>>>>	NA NA	>>>	>> >	, X	>>> Z	>>>	NA V	AN AN	AN AN	> AN	NA NA 130 NA	NA 130	130	NA 130 NA	NA 130
SS (metric) AND STRENGTH RE EIGHTS OVER THE	Type 6	t exceeding 30'		+					·	-	***************************************	·								******				AN AN
STORM SEWERS (metric) L PERMITTED AND STRE RS AND FILL HEIGHTS C		Fill Heig no	RCCP	ΑN	>	. >	>	>	>	>	>	>	>	>	>	>	>	>	>	110	110	110	92	071
STORM S KIND OF MATERIAL PERMIT FIN PIPE DIAMETERS AND I		than 20' 25'	CPVC	×	×	×	×	×	×	NA	×	Ϋ́	×	¥ X	Å	¥	¥.	AN	Ž:	₹ :	A S	₹ <u>2</u>	۲ <u>۲</u>	<u> </u>
ID OF MA	Type 5	Fill Height: Greater than 20' not exceeding 25'	PVC	×	×	×	×	×	×	¥	×	¥	×	×	×	ΑN	Ž:	Y .	¥ :	۲ <u>۲</u>	Z ×	ζ < 2 Z	(<u> </u>
KIN OR A GIVEN		Fill Heigh	RCCP	ΑN	≥	2	≥	≥	≥	≥	≥	2	≥	≥	≥	≥ ;	≥ }	2	> 5	3 5	100	201	100	2 0
) E		Nominal Diameter in.		250	300	375	450	525	009	6/5	750	825	300	1050	1200	1350	1500	1800	1950	2100	2250	2400	2550	2700

RCCP PVC CPVC ESCP X NA NA

Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe
Polyvinyl Chloride Pipe
Corrugated Polyvinyl Chloride Pipe
Extra Strength Clay Pipe
This material may be used for the given pipe diameter and fill height.
This material is Not Acceptable for the given pipe diameter and fill height.
RCCP with a number instead of a Roman numeral shall be furnished according to AASHTO M170 Section 6. This number represents the metric D-load to produce a 25.4 micro-meter crack.

Revise the sixth paragraph of Article 550.06 of the Standard Specifications to read:

"PVC, PE and CPP pipes shall be joined according to the manufacturer's specifications."

Revise the first and second paragraphs of Article 550.08 of the Standard Specifications to read:

"550.08 Deflection Testing for Storm Sewers. All PVC, PE, and CPP storm sewers shall be tested for deflection not less than 30 days after the pipe is installed and the backfill compacted. The testing shall be performed in the presence of the Engineer.

For PVC, PE, and CPP storm sewers with diameters 24 in. (600 mm) or smaller, a mandrel drag shall be used for deflection testing. For PVC, PE, and CPP storm sewers with diameters over 24 in. (600 mm), deflection measurements other than by a mandrel shall be used."

Revise the fifth paragraph of Article 550.08 to read as follows.

"The outside diameter of the mandrel shall be 95 percent of the base inside diameter. For all PVC pipe the base inside diameter shall be defined using ASTM D 3034 methodology. For all PE and CPP pipe, the base inside diameter shall be defined as the average inside diameter based on the minimum and maximum tolerances specified in the corresponding ASTM or AASHTO material specifications."

Revise the first paragraph of Article 1040.03 of the Standard Specifications to read:

"1040.03 Polyvinyl Chloride (PVC) Pipe. Acceptance testing of PVC pipe and fittings shall be accomplished during the same construction season in which they are installed. The section properties shall be according to the manufacturer pre-submitted geometric properties on file with the Department. The manufacturer shall submit written certification that the material meets those properties. The pipe shall meet the following additional requirements."

Delete Articles 1040.03(e) and (f) of the Standard Specifications.

Revise Articles 1040.04(c) and (d) of the Standard Specifications to read:

- "(c) PE Profile Wall Pipe for Insertion Lining. The pipe shall be according to ASTM F 894. When used for insertion lining of pipe culverts, the pipe liner shall have a minimum pipe stiffness of 46 psi (317 kPa) at five percent deflection for nominal inside diameters of 42 in. (1050 mm) or less. For nominal inside diameters of greater than 42 in. (1050 mm), the pipe liner shall have a minimum pipe stiffness of 32.5 psi (225 kPa) at five percent deflection. All sizes shall have wall construction that presents essentially smooth internal and external surfaces.
- (d) PE Pipe with a Smooth Interior. The pipe shall be according to ASTM F 714 (DR 32.5) with a minimum cell classification of PE 335434 as defined in ASTM D 3350. The section properties shall be according to the manufacturer pre-submitted geometric properties on file with the Department. The manufacturer shall submit written

certification that the material meets those properties and the resin used to manufacture the pipe meets or exceeds the minimum cell classification requirements."

Add the following to Section 1040 of the Standard Specifications:

"1040.08 Polypropylene (PP) Pipe. Storage and handling shall be according to the manufacturer's recommendations, except in no case shall the pipe be exposed to direct sunlight for more than six months. Acceptance testing of the pipe shall be accomplished during the same construction season in which it is installed. The section properties shall be according to the manufacturer pre-submitted geometric properties on file with the Department. The manufacturer shall submit written certification that the material meets those properties. The pipe shall meet the following additional requirements.

- (a) Corrugated PP Pipe with a Smooth Interior. The pipe shall be according to AAHSTO M 330 (nominal size 12 to 60 in. (300 to 1500 mm)). The pipe shall be Type S or D.
- (b) Perforated Corrugated PP Pipe with A Smooth Interior. The pipe shall be according to AASHTO M 330 (nominal size 12 to 60 in. (300 to 1500 mm)). The pipe shall be Type SP. In addition, the top centerline of the pipe shall be marked so that it is readily visible from the top of the trench before backfilling, and the upper ends of the slot perforations shall be a minimum of ten degrees below the horizontal."

PAVEMENT PATCHING (BDE)

Effective: January 1, 2010

Revise the first sentence of the second paragraph of Article 701.17(e)(1) of the Standard Specifications to read:

"In addition to the traffic control and protection shown elsewhere in the contract for pavement, two devices shall be placed immediately in front of each open patch, open hole, and broken pavement where temporary concrete barriers are not used to separate traffic from the work area."

PAVEMENT STRIPING - SYMBOLS (BDE)

Effective: January 1, 2015

Revise the Symbol Table of Article 780.14 of the Supplemental Specifications to read:

"SYMBOLS

	T	7
Symbol	Large Size	Small Size
	sq ft (sq m)	sq ft (sq m)
Through Arrow	11.5 (1.07)	6.5 (0.60)
Left or Right Arrow	15.6 (1.47)	8.8 (0.82)
2 Arrow Combination Left (or Right) and Through	26.0 (2.42)	14.7 (1.37)
3 Arrow Combination Left, Right, and Through	38.4 (3.56)	20.9 (1.94)
Lane Drop Arrow	41.5 (3.86)	
Wrong Way Arrow	24.3 (2.26)	***
Railroad "R" 6 ft (1.8 m)	3.6 (0.33)	MA. 200.
Railroad "X" 20 ft (6.1 m)	54.0 (5.02)	Mar App.
International Symbol of	3.1 (0.29)	
Accessibility	, ,	
Bike Symbol	4.7 (0.44)	
Shared Lane Symbol	8.0 (0.74)	"

PRECAST CONCRETE HANDHOLE (BDE)

Effective: August 1, 2014

Revise the third paragraph of Article 814.03 of the Standard Specifications to read:

"Handholes shall be constructed as shown on the plans and shall be cast-in-place, composite concrete, or precast units. Heavy duty handholes shall be either cast-in-place or precast units."

Add the following to Article 814.03 of the Standard Specifications:

"(c) Precast Concrete. Precast concrete handholes shall be fabricated according to Article 1042.17. Where a handhole is contiguous to a sidewalk, preformed joint filler of 1/2 inch (13 mm) thickness shall be placed between the handhole and the sidewalk."

Add the following to Section1042 of the Standard Specifications:

"1042.17 Precast Concrete Handholes. Precast concrete handholes shall be according to Articles 1042.03(a)(c)(d)(e)."

PROGRESS PAYMENTS (BDE)

Effective: November 2, 2013

Revise Article 109.07(a) of the Standard Specifications to read:

"(a) Progress Payments. At least once each month, the Engineer will make a written estimate of the quantity of work performed in accordance with the contract, and the value thereof at the contract unit prices. The amount of the estimate approved as due for payment will be vouchered by the Department and presented to the State Comptroller for payment. No amount less than \$1000.00 will be approved for payment other than the final payment.

Progress payments may be reduced by liens filed pursuant to Section 23(c) of the Mechanics' Lien Act, 770 ILCS 60/23(c).

If a Contractor or subcontractor has defaulted on a loan issued under the Department's Disadvantaged Business Revolving Loan Program (20 ILCS 2705/2705-610), progress payments may be reduced pursuant to the terms of that loan agreement. In such cases, the amount of the estimate related to the work performed by the Contractor or subcontractor, in default of the loan agreement, will be offset, in whole or in part, and vouchered by the Department to the Working Capital Revolving Fund or designated escrow account. Payment for the work shall be considered as issued and received by the Contractor or subcontractor on the date of the offset voucher. Further, the amount of the offset voucher shall be a credit against the Department's obligation to pay the Contractor, the Contractor's obligation to pay the subcontractor, and the Contractor's or subcontractor's total loan indebtedness to the Department. The offset shall continue until such time as the entire loan indebtedness is satisfied. The Department will notify the Contractor and Fund Control Agent in a timely manner of such offset. The Contractor or subcontractor shall not be entitled to additional payment in consideration of the offset.

The failure to perform any requirement, obligation, or term of the contract by the Contractor shall be reason for withholding any progress payments until the Department determines that compliance has been achieved."

RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES (BDE)

Effective: November 1, 2012 Revise: January 2, 2015

Revise Section 1031 of the Standard Specifications to read:

"SECTION 1031. RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES

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

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

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

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

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

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

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

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

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

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

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

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

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

- (a) RAP/FRAP Testing. When used in HMA, the RAP/FRAP shall be sampled and tested either during or after stockpiling.
 - (1) During Stockpiling. For testing during stockpiling, washed extraction samples shall be run at the minimum frequency of one sample per 500 tons (450 metric tons) for the first 2000 tons (1800 metric tons) and one sample per 2000 tons (1800 metric tons) thereafter. A minimum of five tests shall be required for stockpiles less than 4000 tons (3600 metric tons).
 - (2) After Stockpiling. For testing after stockpiling, the Contractor shall submit a plan for approval to the District proposing a satisfactory method of sampling and testing the RAP/FRAP pile either in-situ or by restockpiling. The sampling plan shall meet the minimum frequency required above and detail the procedure used to obtain representative samples throughout the pile for testing.

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

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

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

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

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

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

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

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

1/ The tolerance for FRAP shall be \pm 0.3 %.

If more than 20 percent of the individual sieves and/or asphalt binder content tests are out of the above tolerances, the RAP/FRAP shall not be used in HMA unless the

RAP/FRAP representing the failing tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

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

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

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

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

1031.05 Quality Designation of Aggregate in RAP/FRAP.

- (a) RAP. The aggregate quality of the RAP for homogenous, conglomerate, and conglomerate "D" quality stockpiles shall be set by the lowest quality of coarse aggregate in the RAP stockpile and are designated as follows.
 - (1) RAP from Class I, Superpave/HMA (High ESAL), or (Low ESAL) IL-9.5L surface mixtures are designated as containing Class B quality coarse aggregate.
 - (2) RAP from Superpave/HMA (Low ESAL) IL-19.0L binder mixture is designated as Class D quality coarse aggregate.
 - (3) RAP from Class I, Superpave/HMA (High ESAL) binder mixtures, bituminous base course mixtures, and bituminous base course widening mixtures are designated as containing Class C quality coarse aggregate.
 - (4) RAP from bituminous stabilized subbase and BAM shoulders are designated as containing Class D quality coarse aggregate.
- (b) FRAP. If the Engineer has documentation of the quality of the FRAP aggregate, the Contractor shall use the assigned quality provided by the Engineer.

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

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

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

- (b) RAS. RAS meeting Type 1 or Type 2 requirements will be permitted in all HMA applications as specified herein.
- (c) RAP/FRAP and/or RAS Usage Limits. Type 1 or Type 2 RAS may be used alone or in conjunction with RAP or FRAP in HMA mixtures up to a maximum of 5.0% by weight of the total mix.
 - (1) RAP/RAS. When RAP is used alone or RAP is used in conjunction with RAS, the percentage of virgin asphalt binder replacement shall not exceed the amounts listed in the Max RAP/RAS ABR table listed below for the given Ndesign.

RAP/RAS Maximum Asphalt Binder Replacement (ABR) Percentage

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

- 1/ For HMA "All Other" (shoulder and stabilized subbase) N-30, the RAP/RAS ABR shall not exceed 50 percent of the mixture.
- 2/ When RAP/RAS ABR exceeds 20 percent, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent ABR would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28). If warm mix asphalt (WMA) technology is utilized, and production temperatures do not exceed 275 °F (135 °C) the high and low virgin asphalt binder grades shall each be reduced by one grade when RAP/RAS ABR exceeds 25 percent (i.e. 26 percent RAP/RAS ABR would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28).
- (2) FRAP/RAS. When FRAP is used alone or FRAP is used in conjunction with RAS, the percentage of virgin asphalt binder replacement shall not exceed the amounts listed in the FRAP/RAS table listed below for the given N design.

FRAP/RAS Maximum Asphalt Binder Replacement (ABR) Percentage

And the same of th	HMA Mixtures	FRAP/RAS Maximum ABR %		
hadra est no construction and the construction of the construction	Ndesign	Binder/Leveling Binder	Surface	Polymer Modified 37, 47
Consumer	30	50	40	10

50	40	35	10
70	40	30	10
90	40	30	10
105	40	30	10

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

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

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

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

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

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

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

- (b) RAS. RAS shall be incorporated into the HMA mixture either by a separate weight depletion system or by using the RAP weigh belt. Either feed system shall be interlocked with the aggregate feed or weigh system to maintain correct proportions for all rates of production and batch sizes. The portion of RAS shall be controlled accurately to within ± 0.5 percent of the amount of RAS utilized. When using the weight depletion system, flow indicators or sensing devices shall be provided and interlocked with the plant controls such that the mixture production is halted when RAS flow is interrupted.
- (c) RAP/FRAP and/or RAS. HMA plants utilizing RAP/FRAP and/or RAS shall be capable of automatically recording and printing the following information.
 - (1) Dryer Drum Plants.
 - a. Date, month, year, and time to the nearest minute for each print.
 - b. HMA mix number assigned by the Department.
 - c. Accumulated weight of dry aggregate (combined or individual) in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
 - d. Accumulated dry weight of RAP/FRAP/RAS in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
 - e. Accumulated mineral filler in revolutions, tons (metric tons), etc. to the nearest 0.1 unit.
 - f. Accumulated asphalt binder in gallons (liters), tons (metric tons), etc. to the nearest 0.1 unit.
 - g. Residual asphalt binder in the RAP/FRAP material as a percent of the total mix to the nearest 0.1 percent.
 - Aggregate and RAP/FRAP moisture compensators in percent as set on the control panel. (Required when accumulated or individual aggregate and RAP/FRAP are printed in wet condition.)
 - (2) Batch Plants.
 - a. Date, month, year, and time to the nearest minute for each print.
 - b. HMA mix number assigned by the Department.

- c. Individual virgin aggregate hot bin batch weights to the nearest pound (kilogram).
- d. Mineral filler weight to the nearest pound (kilogram).
- e. RAP/FRAP/RAS weight to the nearest pound (kilogram).
- f. Virgin asphalt binder weight to the nearest pound (kilogram).
- g. Residual asphalt binder in the RAP/FRAP/RAS material as a percent of the total mix to the nearest 0.1 percent.

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

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

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

REINFORCEMENT BARS (BDE)

Effective: November 1, 2013

Revise the first and second paragraphs of Article 508.05 of the Standard Specifications to read:

"508.05 Placing and Securing. All reinforcement bars shall be placed and tied securely at the locations and in the configuration shown on the plans prior to the placement of concrete. Manual welding of reinforcement may only be permitted or precast concrete products as indicated in the current Bureau of Materials and Physical Research Policy Memorandum "Quality Control / Quality Assurance Program for Precast Concrete Products", and for precast prestressed concrete products as indicated in the Department's current "Manual for Fabrication of Precast Prestressed Concrete Products". Reinforcement bars shall not be placed by sticking or floating into place or immediately after placement of the concrete.

Bars shall be tied at all intersections, except where the center to center dimension is less than 1 ft (300 mm) in each direction, in which case alternate intersections shall be tied. Molded plastic clips may be used in lieu of wire to secure bar intersections, but shall not be permitted in horizontal bar mats subject to construction foot traffic or to secure longitudinal bar laps. Plastic clips shall adequately secure the reinforcement bars, and shall permit the concrete to flow through and fully encase the reinforcement. Plastic clips may be recycled plastic, and shall meet the approval of the Engineer. The number of ties as specified shall be doubled for lap splices at the stage construction line of concrete bridge decks when traffic is allowed on the first completed stage during the pouring of the second stage."

Revise the fifth paragraph of Article 508.05 of the Standard Specifications to read:

"Supports for reinforcement in bridge decks shall be metal. For all other concrete construction the supports shall be metal or plastic. Metal bar supports shall be made of cold-drawn wire, or other approved material and shall be either epoxy coated, galvanized or plastic tipped. When the reinforcement bars are epoxy coated, the metal supports shall be epoxy coated. Plastic supports may be recycled plastic. Supports shall be provided in sufficient number and spaced to provide the required clearances. Supports shall adequately support the reinforcement bars, and shall permit the concrete to flow through and fully encase the reinforcement. The legs of supports shall be spaced to allow an opening that is a minimum 1.33 times the nominal maximum aggregate size used in the concrete. Nominal maximum aggregate size is defined as the largest sieve which retains any of the aggregate sample particles. All supports shall meet the approval of the Engineer."

Revise the first sentence of the eighth paragraph of Article 508.05 of the Standard Specifications to read:

"Epoxy coated reinforcement bars shall be tied with plastic coated wire, epoxy coated wire, or molded plastic clips where allowed."

Add the following sentence to the end of the first paragraph of Article 508.06(c) of the Standard Specifications:

"In addition, the total slip of the bars within the splice sleeve of the connector after loading in tension to 30 ksi (207 MPa) and relaxing to 3 ksi (20.7 MPa) shall not exceed 0.01 in. (254 microns)."

Revise Article 1042.03(d) of the Standard Specifications to read:

"(d) Reinforcement and Accessories: The concrete cover over all reinforcement shall be within ±1/4 in. (±6 mm) of the specified cover.

Welded wire fabric shall be accurately bent and tied in place.

Miscellaneous accessories to be cast into the concrete or for forming holes and recesses shall be carefully located and rigidly held in place by bolts, clamps, or other effective means. If paper tubes are used for vertical dowel holes, or other vertical holes which require grouting, they shall be removed before transportation to the construction site."

SIDEWALK, CORNER, OR CROSSWALK CLOSURE (BDE)

Effective: January 1, 2015 Revised: April 1, 2015

Revise the first sentence of Article 1106.02(m) of the Supplemental Specifications to read:

"The top and bottom panels shall have alternating white and orange stripes sloping 45 degrees on both sides."

STEEL COST ADJUSTMENT (BDE) (RETURN FORM WITH BID)

Effective: April 2, 2004 Revised: July 1, 2015

<u>Description</u>. 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 indicate contract number, company name, and sign and date the form shall make this contract exempt of steel cost adjustments for all items of steel. Failure to indicate "Yes" for any item of work will make that item of steel exempt from steel cost adjustment.

<u>Types of Steel Products</u>. 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), and frames and grates will be subject to a steel cost adjustment when the pay items they are used in have a contract value of \$10,000 or greater.

The adjustments shall apply to the above items when they are part of the original proposed construction, or added as extra work and paid for by agreed unit prices. The adjustments shall not apply when the item is added as extra work and paid for at a lump sum price or by force account.

<u>Documentation</u>. Sufficient documentation shall be furnished to the Engineer to verify the following:

- (a) The dates and quantity of steel, in lb (kg), shipped from the mill to the fabricator.
- (b) 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 X 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)

 $D = MPI_M - MPI_L$

Where: MPI_M = The Materials Cost Index for steel as published by the Engineering News-

Record for the month the steel is shipped from the mill. The indices will be

converted from dollars per 100 lb to dollars per lb (kg).

MPI_L = The Materials Cost Index for steel as published by the Engineering News-Record for the month prior to the letting for work paid for at the contract

price; or for the month the agreed unit price letter is submitted by the Contractor for extra work paid for by agreed unit price. The indices will be

converted from dollars per 100 lb 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 MPI_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.

<u>Basis of Payment</u>. Steel cost adjustments may be positive or negative but will only be made when there is a difference between the MPI_L and MPI_M in excess of five percent, as calculated by:

Percent Difference = $\{(MPI_L - MPI_M) \div MPI_L\} \times 100$

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

Attacimient					
<u>Item</u>	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 properly complete contract number, company name, and sign and date the form shall make this contract exempt of steel cost adjustments for all items of steel. Failure to indicate "Yes" for any item of work will make that item of steel exempt from steel cost adjustment. 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 p following items of work?	art of the co	ntract plans for the
Metal Piling	Yes	
Structural Steel	Yes	
Reinforcing Steel	Yes	
Dowel Bars, Tie Bars and Mesh Reinforcement	Yes	
Guardrail	Yes	
Steel Traffic Signal and Light Poles, Towers and Mast Arms	Yes	
Metal Railings (excluding wire fence)	Yes	
Frames and Grates	Yes	
Signature:	Date:	

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TRACKING THE USE OF PESTICIDES (BDE)

Effective: August 1, 2012

Add the following paragraph after the first paragraph of Article 107.23 of the Standard Specifications:

"Within 48 hours of the application of pesticides, including but not limited to herbicides, insecticides, algaecides, and fungicides, the Contractor shall complete and return to the Engineer, Operations form "OPER 2720"."

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 **2**. 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 then 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.

WARM MIX ASPHALT (BDE)

Effective: January 1, 2012 Revised: November 1, 2014

<u>Description</u>. This work shall consist of designing, producing and constructing Warm Mix Asphalt (WMA) in lieu of Hot Mix Asphalt (HMA) at the Contractor's option. Work shall be according to Sections 406, 407, 408, 1030, and 1102 of the Standard Specifications, except as modified herein. In addition, any references to HMA in the Standard Specifications, or the special provisions shall be construed to include WMA.

WMA is an asphalt mixture which can be produced at temperatures lower than allowed for HMA utilizing approved WMA technologies. WMA technologies are defined as the use of additives or processes which allow a reduction in the temperatures at which HMA mixes are produced and placed. WMA is produced by the use of additives, a water foaming process, or combination of both. Additives include minerals, chemicals or organics incorporated into the asphalt binder stream in a dedicated delivery system. The process of foaming injects water into the asphalt binder stream, just prior to incorporation of the asphalt binder with the aggregate.

Approved WMA technologies may also be used in HMA provided all the requirements specified herein, with the exception of temperature, are met. However, asphalt mixtures produced at temperatures in excess of 275 °F (135 °C) will not be considered WMA when determining the grade reduction of the virgin asphalt binder grade.

Equipment.

Revise the first paragraph of Article 1102.01 of the Standard Specifications to read:

"1102.01 Hot-Mix Asphalt Plant. The hot-mix asphalt (HMA) plant shall be the batch-type, continuous-type, or dryer drum plant. The plants shall be evaluated for prequalification rating and approval to produce HMA according to the current Bureau of Materials and Physical Research Policy Memorandum, "Approval of Hot-Mix Asphalt Plants and Equipment". Once approved, the Contractor shall notify the Bureau of Materials and Physical Research to obtain approval of all plant modifications. The plants shall not be used to produce mixtures concurrently for more than one project or for private work unless permission is granted in writing by the Engineer. The plant units shall be so designed, coordinated and operated that they will function properly and produce HMA having uniform temperatures and compositions within the tolerances specified. The plant units shall meet the following requirements."

Add the following to Article 1102.01(a) of the Standard Specifications.

- "(13) Equipment for Warm Mix Technologies.
 - a. Foaming. Metering equipment for foamed asphalt shall have an accuracy of ± 2 percent of the actual water metered. The foaming control system shall be electronically interfaced with the asphalt binder meter.



b. Additives. Additives shall be introduced into the plant according to the supplier's recommendations and shall be approved by the Engineer. The system for introducing the WMA additive shall be interlocked with the aggregate feed or weigh system to maintain correct proportions for all rates of production and batch sizes."

Mix Design Verification.

Add the following to Article 1030.04 of the Standard Specifications.

- "(e) Warm Mix Technologies.
 - (1) Foaming. WMA mix design verification will not be required when foaming technology is used alone (without WMA additives). However, the foaming technology shall only be used on HMA designs previously approved by the Department.
 - (2) Additives. WMA mix designs utilizing additives shall be submitted to the Engineer for mix design verification."

Construction Requirements.

Revise the second paragraph of Article 406.06(b)(1) of the Standard Specifications to read:

"The HMA shall be delivered at a temperature of 250 to 350 $^{\circ}$ F (120 to 175 $^{\circ}$ C). WMA shall be delivered at a minimum temperature of 215 $^{\circ}$ F (102 $^{\circ}$ C)."

Basis of Payment.

This work will be paid at the contract unit price bid for the HMA pay items involved. Anti-strip will not be paid for separately, but shall be considered as included in the cost of the work.

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WEEKLY DBE TRUCKING REPORTS (BDE)

Effective: June 2, 2012 Revised: April 2, 2015

The Contractor shall submit a weekly report of Disadvantaged Business Enterprise (DBE) trucks hired by the Contractor or subcontractors (i.e. not owned by the Contractor or subcontractors) that are used for DBE goal credit.

The report shall be submitted to the Engineer on Department form "SBE 723" within ten business days following the reporting period. The reporting period shall be Monday through Sunday for each week reportable trucking activities occur.

Any costs associated with providing weekly DBE trucking reports shall be considered as included in the contract unit prices bid for the various items of work involved and no additional compensation will be allowed.

REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

- General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

- 2. Subject to the applicability criteria noted in the following sections, 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.
- 3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.
- 4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

- 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, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) 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 provisions of the Americans with 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 contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.
- b. The contractor will accept as its 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, pre-apprenticeship, and/or onthe-job training."
- 2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program 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 minorities and women.
- 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 minorities and women 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 employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women 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, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.
- c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such 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 its 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 their avenues of appeal.

6. Training and Promotion:

- a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.
- 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. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).
- 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 employees who are minorities and women 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 good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. 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 good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.
- b. The contractor will use good faith 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 contracting agency 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 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 qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. 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 contracting agency.

- 8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.
- 9. 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. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.
- a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.
- b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

- a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.
- b. The contractor 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 DOT-assisted contracts. 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 contracting agency deems appropriate.
- 11. 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 the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.
 - a. The records kept by the contractor shall document the following:
- (1) The number and work hours of minority and nonminority 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; and
 - (3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;
- b. The contractors and subcontractors will submit an annual report to the contracting agency 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. The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color,

religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. Davis-Bacon and Related Act Provisions

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics 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 issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.d. of this section; also, 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 29 CFR 5.5(a)(4). 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. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) 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.

b.(1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

- (i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and
- (ii) The classification is utilized in the area by the construction industry; and
- (iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.
- (2) If the contractor and the laborers and mechanics to be employed in the classification (if known), 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 Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The 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.
- (3) In the event the contractor, the laborers or mechanics to be employed in the 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 questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination 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.
- (4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.
- c. 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 shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.
- d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs 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.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor 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, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, 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 contracting agency 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.

3. Payrolls and basic records

- a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of 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. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) 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 shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.
- (1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose Wage and Hour Division Web http://www.dol.gov/esa/whd/forms/wh347instr.htm or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..
- (2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:
 - (i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;
 - (ii) That each 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 Regulations, 29 CFR part 3;

- (iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.
- (3) 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 3.b.(2) of this section.
- (4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.
- c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, 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 FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action 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.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

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 U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or 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 Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker 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 on 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 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's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

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 journeymen 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 determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

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 U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman 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 benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. 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.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor 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. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.
 - d. 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.

- **5. Compliance with Copeland Act requirements.** The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.
- **6. Subcontracts.** The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.
- **7. Contract termination: debarment.** A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for

debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

- **8. Compliance with Davis-Bacon and Related Act requirements.** All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.
- **9. Disputes concerning labor standards.** Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 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 U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

- a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
- b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
- c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

- 1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.
- 2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the 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 or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.
- 3. Withholding for unpaid wages and liquidated damages. The FHWA or the contacting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys 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 (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

- 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 contracting agency. 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 contractor's own organization (23 CFR 635.116).
- a. The term "perform work with its own organization" refers to workers employed or leased 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 or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:
- (1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
 - (2) the prime contractor remains responsible for the quality of the work of the leased employees;
- (3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
- (4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.
- 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 or propose 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 VI 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 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 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 contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.
- 5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

- 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 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. 3704).
- 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.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

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, Form FHWA-1022 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:

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 under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

- 1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.
- 2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more — as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

- a. By signing and submitting this proposal, the prospective first tier 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 first tier 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 first tier 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 contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.
- d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier 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," "participant," "person," "principal," and "voluntarily excluded,"

as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

- f. The prospective first 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 entering into this transaction.
- g. The prospective first tier 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 Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.
- 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 is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (https://www.epls.gov/), which is compiled by the General Services Administration.
- i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective 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.

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2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

- a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:
- (1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;
- (2) Have not within a three-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;
- (3) 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 (a)(2) of this certification; and

- (4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
- b. Where the prospective 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 Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

- 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," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).
- 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 exceeding the \$25,000 threshold.
- 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 is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (https://www.epls.gov/), which is compiled by the General Services Administration.
- 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 dealings.

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.

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Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

- 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 participating in covered transactions 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.

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XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is 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 its bid or proposal that the participant 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.