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

PREQUALIFICATION

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

REQUESTS FOR AUTHORIZATION TO BID

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

WHO CAN BID ?

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

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

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

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

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

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

IDOT is not responsible for any e-mail related failures.

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

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

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

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

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

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

WHO SHOULD BE CALLED IF ASSISTANCE IS NEEDED?

Questions Regarding	**Call**
Prequalification and/or Authorization to Bid	(217)782-3413
Preparation and submittal of bids	(217)782-7806
Mailing of plans and proposals	(217)782-7806
Electronic plans and proposals	(217)524-1642

ADDENDUMS AND REVISIONS TO THE PROPOSAL FORMS

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

RETURN WITH BID

87

Proposal Submitted By
Name
Address
City

Letting March 7, 2008

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

NOTICE TO PROSPECTIVE BIDDERS
This proposal can be used for bidding purposes by only those companies that request and receive written AUTHORIZATION TO BID from IDOT's Central Bureau of Construction.
(SEE INSTRUCTIONS ON THE INSIDE OF COVER)

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

Illinois Department of Transportation

Springfield, Illinois 62764

Contract No. 83952
DUPAGE County
Section 03-00148-00-PV (Lombard)
Route FAU 2611 (Main Street)
Project ACM-8003(521)
District 1 Construction Funds

PLEASE MARK THE APPROPRIATE BOX BELOW:

☐ A Bid Bond is included.

☐ A Cashier's Check or a Certified Check is included

Prepared by

Checked by F

(Printed by authority of the State of Illinois)

INSTRUCTIONS

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

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

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

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

1. All documents from the Proposal Cover Sheet through the Proposal Bid Bond

2. Other special documentation and/or information that may be required by the contract special provisions

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

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

WHO SHOULD BE CALLED IF ASSISTANCE IS NEEDED?

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

RETURN WITH BID

Illinois Department of Transportation

PROPOSAL

TO THE DEPARTMENT OF TRANSPORTATION

1. Proposal of _____

_____

Taxpayer Identification Number (Mandatory) _____

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

Contract No. 83952
DUPAGE County
Section 03-00148-00-PV (Lombard)
Project ACM-8003(521)
Route FAU 2611 (Main Street)
District 1 Construction Funds

Project consists of earth excavation and pavement removal, storm sewers, drainage structures, water main removal and replacement, combination curb and gutter, HMA binder and surface courses, traffic signal modernization and all other incidental items to complete the work on FAU Route 2611 (Main Street) from Wilson Avenue to Illinois Route 38 in the Village of Lombard.

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

3. **ASSURANCE OF EXAMINATION AND INSPECTION/WAIVER.** The undersigned further declares that he/she has carefully examined the proposal, plans, specifications, form of contract and contract bond, and special provisions, and that he/she has inspected in detail the site of the proposed work, and that he/she has familiarized themselves with all of the local conditions affecting the contract and the detailed requirements of construction, and understands that in making this proposal he/she waives all right to plead any misunderstanding regarding the same.

4. **EXECUTION OF CONTRACT AND CONTRACT BOND.** The undersigned further agrees to execute a contract for this work and present the same to the department within fifteen (15) days after the contract has been mailed to him/her. The undersigned further agrees that he/she and his/her surety will execute and present within fifteen (15) days after the contract has been mailed to him/her contract bond satisfactory to and in the form prescribed by the Department of Transportation, in the penal sum of the full amount of the contract, guaranteeing the faithful performance of the work in accordance with the terms of the contract.

5. **PROPOSAL GUARANTY.** Accompanying this proposal is either a bid bond on the department form, executed by a corporate surety company satisfactory to the department, or a proposal guaranty check consisting of a bank cashier's check or a properly certified check for not less than 5 per cent of the amount bid or for the amount specified in the following schedule:

Amount of Bid			Proposal Guaranty	Amount of Bid			Proposal Guaranty
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	$400,000
$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	$800,000
$1,000,000	to	$1,500,000	$50,000	$30,000,000	to	$35,000,000	$900,000
$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 proposals shall be made payable to the Treasurer, State of Illinois, when the state is awarding authority; the county treasurer, when a county is the awarding authority; or the city, village, or town treasurer, when a city, village, or town is the awarding authority.

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

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

Attach Cashier's Check or Certified Check Here

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

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

Item _____

Section No. _____

County _____

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

BD 354 (Rev. 11/2001)

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

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

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

Schedule of Combination Bids

Combination No.	Sections Included in Combination	Combination Bid Dollars	Cents

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

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

COUNTY NAME	CODE	DIST	SECTION NUMBER	PROJECT NUMBER	ROUTE
DUPAGE	043	01	03-00148-00-PV (LOMBARD)	ACM-8003/521/000	FAU 2611

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY		UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
B2002616	T-MALUS ADAM TF 2	EACH	6.000	X			=		
B2006116	T-SYRG PEK M TF 2	EACH	5.000	X			=		
XX000479	WATER MAIN REMOV 6	FOOT	135.000	X			=		
XX000613	MODULAR BLOC RET WALL	SQ FT	500.000	X			=		
XX002029	SAN SEW REMOV 8	FOOT	252.000	X			=		
XX003536	CONN EX W MN NP	EACH	2.000	X			=		
XX003553	VIDEO TRANS SYS	EACH	2.000	X			=		
XX003668	PRECONSTRUCT VID TAP	L SUM	1.000	X			=		
XX003991	BIT DRIVEWAY PAVT 3	SQ YD	29.000	X			=		
XX005137	PCC SUR RM (CM) 1 1/2	SQ YD	190.000	X			=		
XX005462	CHANGEABLE MESSAGE SN	WEEK	8.000	X			=		
XX005645	BIT DRIVEWAY PAVT 4	SQ YD	70.000	X			=		
XX005656	INLET FILTER CLEANING	EACH	58.000	X			=		
XX005668	HES PCC DRIVEWAY 9"	SQ YD	61.000	X			=		
XX005723	VIDEO DET SY COMP INT	EACH	2.000	X			=		

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY		UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
XX006372	SS 1 WAT MN 4	FOOT	20.000	X			=		
XX006442	SS 1 WAT MN 36	FOOT	10.000	X			=		
XX007228	SS 2 WAT MN 10	FOOT	20.000	X			=		
XX007229	T-ULMUS CARP NH SE 2	EACH	6.000	X			=		
XX007230	T-MALUS PR CA TF 2	EACH	6.000	X			=		
XX007231	CB TD 3 DIA SPL T1 OL	EACH	1.000	X			=		
XX007232	CB TD 3 DIA SPL T3 FG	EACH	1.000	X			=		
XX007233	SS 4 PVC INLETS SPL	FOOT	110.000	X			=		
XX007234	SS 1 WAT MN 6	FOOT	24.000	X			=		
XX007235	SS 1 WAT MN 10	FOOT	20.000	X			=		
XX007236	WATER VALVES 10 SPL	EACH	2.000	X			=		
XX007237	SAN SEW SER CON T 1	FOOT	394.000	X			=		
XX007238	SAN SEW SER CON T 2	FOOT	200.000	X			=		
XX007239	SAN SEW SER CON T 3	FOOT	326.000	X			=		
XX007240	SAN SEW CLEAN OUT	EACH	10.000	X			=		

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY		UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
XX007241	SAN SEW CLNOUT DRVWAY	EACH	6.000	X			=		
XX007242	DIRECTIONAL BORE	FOOT	385.000	X			=		
XX007243	UD2#6#6G XLPUSE 1 P	FOOT	400.000	X			=		
XX007244	TEMP PAVT PATCH 6	SQ YD	75.000	X			=		
XX007245	CONCRETE SADDLE SUPP	EACH	14.000	X			=		
XX007246	ELCBL C 18 3C	FOOT	1,292.000	X			=		
XX007247	MAN TRAF SIG P B S	EACH	2.000	X			=		
XX007248	WATER CONNECTION SPL	EACH	5.000	X			=		
XX007249	EXPLOR TRENCH SPL	CU FT	4,800.000	X			=		
XX007266	FIRE HYDNTS REMOV SPL	EACH	6.000	X			=		
XX011700	WATER MAIN FITTINGS	POUND	12,230.000	X			=		
X0300737	RADIO TRANSCEIVER	EACH	2.000	X			=		
X0301335	WATER MAIN REMOV 8	FOOT	13.000	X			=		
X0301576	COAXIAL CABLE IN CON	FOOT	198.000	X			=		
X0320772	WATER MAIN REMOV 12	FOOT	80.000	X			=		

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
X0321905	SS 1 WAT MN 12	FOOT	383.000			X =		
X0321906	SS 1 WAT MN 15	FOOT	36.000			X =		
X0321907	SS 2 WAT MN 12	FOOT	40.000			X =		
X0321909	SS 2 WAT MN 24	FOOT	60.000			X =		
X0322256	TEMP INFO SIGNING	SQ FT	26.000			X =		
X0322453	WEED CONTR PRE-EMERG	POUND	100.000			X =		
X0323449	REM EX WATER VALVE	EACH	2.000			X =		
X0323827	WATER MAIN REMOV 10	FOOT	175.000			X =		
X0323973	SED CONT SILT FENCE	FOOT	1,030.000			X =		
X0323974	SED CONT SILT FN MAIN	FOOT	515.000			X =		
X0324007	OPTIM TRAF SIGNAL SYS	EACH	1.000			X =		
X0324912	RADIO ANTENNA	EACH	3.000			X =		
X4021000	TEMP ACCESS- PRIV ENT	EACH	1.000			X =		
X4022000	TEMP ACCESS- COM ENT	EACH	13.000			X =		
X8011000	TELEPHONE SERV INSTAL	EACH	2.000			X =		

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY		UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
X8050015	SERV INSTALL POLE MT	EACH	2.000	X			=		
X8620020	UNINTER POWER SUPPLY	EACH	2.000	X			=		
X8730027	ELCBL C GROUND 6 1C	FOOT	834.000	X			=		
X8730250	ELCBL C 20 3C TW SH	FOOT	525.000	X			=		
Z0001050	AGG SUBGRADE 12	SQ YD	2,171.000	X			=		
Z0017400	DRAIN UTIL STR ADJ	EACH	5.000	X			=		
Z0017700	DRAIN UTIL STR RECON	EACH	1.000	X			=		
Z0019600	DUST CONTROL WATERING	UNIT	15.000	X			=		
Z0022800	FENCE REMOVAL	FOOT	215.000	X			=		
Z0056900	SAN SEW 8	FOOT	252.000	X			=		
Z0076600	TRAINEES	HOUR	1,500.000	X	0	.80	=	1,200	.00
20100110	TREE REMOV 6-15	UNIT	126.000	X			=		
20101000	TEMPORARY FENCE	FOOT	643.000	X			=		
20101200	TREE ROOT PRUNING	EACH	10.000	X			=		
20101300	TREE PRUN 1-10	EACH	5.000	X			=		

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY		UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
20101350	TREE PRUN OVER 10	EACH	5.000	X			=		
20200100	EARTH EXCAVATION	CU YD	1,426.000	X			=		
20201200	REM & DISP UNS MATL	CU YD	429.000	X			=		
20400800	FURNISHED EXCAV	CU YD	683.000	X			=		
20700420	POROUS GRAN EMB SUBGR	CU YD	429.000	X			=		
20800250	TRENCH BACKFILL SPL	CU YD	2,850.000	X			=		
21101615	TOPSOIL F & P 4	SQ YD	3,791.000	X			=		
25000400	NITROGEN FERT NUTR	POUND	47.000	X			=		
25000500	PHOSPHORUS FERT NUTR	POUND	47.000	X			=		
25000600	POTASSIUM FERT NUTR	POUND	47.000	X			=		
25200110	SODDING SALT TOLERANT	SQ YD	3,791.000	X			=		
25200200	SUPPLE WATERING	UNIT	56.000	X			=		
28000510	INLET FILTERS	EACH	29.000	X			=		
31101200	SUB GRAN MAT B 4	SQ YD	684.000	X			=		
40600100	BIT MATLS PR CT	GALLON	2,492.000	X			=		

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
40600300	AGG PR CT	TON	28.000			X =		
40600982	HMA SURF REM BUTT JT	SQ YD	150.000			X =		
40603085	HMA BC IL-19.0 N70	TON	3,490.000			X =		
40603340	HMA SC "D" N70	TON	971.000			X =		
42001300	PROTECTIVE COAT	SQ YD	2,530.000			X =		
42300710	PCC DRIVEWAY PVT 6 SP	SQ YD	9.000			X =		
42300800	PCC DRIVEWAY PVT 8 SP	SQ YD	485.000			X =		
42400500	PC CONC SIDEWALK SPL	SQ FT	11,124.000			X =		
42400800	DETECTABLE WARNINGS	SQ FT	420.000			X =		
44000100	PAVEMENT REM	SQ YD	141.000			X =		
44000155	HMA SURF REM 1 1/2	SQ YD	11,301.000			X =		
44000198	HMA SURF REM VAR DP	SQ YD	250.000			X =		
44000200	DRIVE PAVEMENT REM	SQ YD	1,134.000			X =		
44000300	CURB REM	FOOT	285.000			X =		
44000500	COMB CURB GUTTER REM	FOOT	4,091.000			X =		

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY		UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
44000600	SIDEWALK REM	SQ FT	11,461.000	X			=		
44003100	MEDIAN REMOVAL	SQ FT	285.000	X			=		
44201341	CL C PATCH T2 9	SQ YD	32.000	X			=		
44201347	CL C PATCH T4 9	SQ YD	306.000	X			=		
44201729	CL D PATCH T2 7	SQ YD	911.000	X			=		
44201733	CL D PATCH T3 7	SQ YD	300.000	X			=		
44201735	CL D PATCH T4 7	SQ YD	1,417.000	X			=		
44300200	STRIP REF CR CON TR	FOOT	1,480.000	X			=		
54216180	R C PIPE TEE 12P 12R	EACH	3.000	X			=		
54248100	GRT-C FL END S EQV 15	EACH	1.000	X			=		
550A0020	STORM SEW CL A 1 6	FOOT	35.000	X			=		
550A0040	STORM SEW CL A 1 10	FOOT	16.000	X			=		
550A0050	STORM SEW CL A 1 12	FOOT	626.000	X			=		
550A0120	STORM SEW CL A 1 24	FOOT	24.000	X			=		
55100200	STORM SEWER REM 6	FOOT	70.000	X			=		

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY		UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
55100400	STORM SEWER REM 10	FOOT	146.000	X			=		
55100500	STORM SEWER REM 12	FOOT	118.000	X			=		
55100700	STORM SEWER REM 15	FOOT	36.000	X			=		
55101200	STORM SEWER REM 24	FOOT	34.000	X			=		
55101600	STORM SEWER REM 36	FOOT	10.000	X			=		
56102900	D I WATER MAIN 4	FOOT	64.000	X			=		
56103000	D I WATER MAIN 6	FOOT	450.000	X			=		
56103100	D I WATER MAIN 8	FOOT	210.000	X			=		
56103200	D I WATER MAIN 10	FOOT	180.000	X			=		
56103300	D I WATER MAIN 12	FOOT	2,699.000	X			=		
56104800	WATER VALVES 4	EACH	1.000	X			=		
56104900	WATER VALVES 6	EACH	2.000	X			=		
56105000	WATER VALVES 8	EACH	6.000	X			=		
56105100	WATER VALVES 10	EACH	2.000	X			=		
56105200	WATER VALVES 12	EACH	11.000	X			=		

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
56200300	WATER SERV LINE 1	FOOT	1,116.000			X =		
56200500	WATER SERV LINE 1 1/2	FOOT	125.000			X =		
56200700	WATER SERV LINE 2	FOOT	187.000			X =		
56201400	CORP STOPS 1	EACH	25.000			X =		
56201600	CORP STOPS 1 1/2	EACH	2.000			X =		
56201800	CORP STOPS 2	EACH	3.000			X =		
56400500	FIRE HYDNTS TO BE REM	EACH	2.000			X =		
56400820	FIRE HYD W/AUX V & VB	EACH	18.000			X =		
56500700	DOM WAT SER BOX REM	EACH	30.000			X =		
56500800	DOM WAT SER BOX	EACH	30.000			X =		
60109510	P UNDR FAB LINE TR 4	FOOT	100.000			X =		
60200205	CB TA 4 DIA T1F CL	EACH	1.000			X =		
60200305	CB TA 4 DIA T3F&G	EACH	4.000			X =		
60204005	CB TA 5 DIA T3F&G	EACH	1.000			X =		
60206905	CB TC T1F OL	EACH	3.000			X =		

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
60218400	MAN TA 4 DIA T1F CL	EACH	4.000			X =		
60221100	MAN TA 5 DIA T1F CL	EACH	1.000			X =		
60228110	MAN SAN 4 DIA T1F CL	EACH	2.000			X =		
60234200	INLETS TA T1F OL	EACH	2.000			X =		
60235700	INLETS TA T3F&G	EACH	5.000			X =		
60240220	INLETS TB T3F&G	EACH	2.000			X =		
60242400	INLETS SPL	EACH	3.000			X =		
60248900	VV TA 5 DIA T1F CL	EACH	19.000			X =		
60249300	VALVE BOXES 4	EACH	1.000			X =		
60249400	VALVE BOXES 6	EACH	1.000			X =		
60249500	VALVE BOXES 8	EACH	1.000			X =		
60255700	MAN ADJ NEW T1F OL	EACH	1.000			X =		
60260300	INLETS ADJ NEW T1F OL	EACH	1.000			X =		
60260500	INLETS ADJ NEW T3F&G	EACH	1.000			X =		
60265700	VV ADJUST	EACH	2.000			X =		

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
60266500	VV REMOVED	EACH	4.000	X		=		
60266910	VALVE BOX REMOVED	EACH	4.000	X		=		
60404300	FR & GRATES T3	EACH	1.000	X		=		
60406100	FR & LIDS T1 CL	EACH	1.000	X		=		
60500040	REMOV MANHOLES	EACH	3.000	X		=		
60500060	REMOV INLETS	EACH	6.000	X		=		
60500405	FILL VALVE VLTS	EACH	12.000	X		=		
60600605	CONC CURB TB	FOOT	50.000	X		=		
60603800	COMB CC&G TB6.12	FOOT	2,787.000	X		=		
60604200	COMB CC&G TB6.12 SPL	FOOT	1,446.000	X		=		
60618324	CONC MEDIAN SURF 6 SP	SQ FT	210.000	X		=		
60624600	CORRUGATED MED	SQ FT	45.000	X		=		
66900200	NON SPL WASTE DISPOSL	CU YD	210.000	X		=		
66900450	SPL WASTE PLNS/REPORT	L SUM	1.000	X		=		
66900530	SOIL DISPOSAL ANALY	EACH	1.000	X		=		

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
67000400	ENGR FIELD OFFICE A	CAL MO	7.000	X		=		
67100100	MOBILIZATION	L SUM	1.000	X		=		
70101700	TRAF CONT & PROT	L SUM	1.000	X		=		
70102550	TR CONT-PROT TEMP DET	EACH	1.000	X		=		
72000100	SIGN PANEL T1	SQ FT	66.500	X		=		
72000200	SIGN PANEL T2	SQ FT	14.000	X		=		
72400500	RELOC SIN PAN ASSY TA	EACH	10.000	X		=		
72400600	RELOC SIN PAN ASSY TB	EACH	4.000	X		=		
72800100	TELES STL SIN SUPPORT	FOOT	279.000	X		=		
78001110	PAINT PVT MK LINE 4	FOOT	40.000	X		=		
78001130	PAINT PVT MK LINE 6	FOOT	20.000	X		=		
78003100	PREF PL PM TB LTR-SYM	SQ FT	354.000	X		=		
78003110	PREF PL PM TB LINE 4	FOOT	4,184.000	X		=		
78003130	PREF PL PM TB LINE 6	FOOT	2,409.000	X		=		
78003150	PREF PL PM TB LINE 12	FOOT	142.000	X		=		

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY		UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
78003180	PREF PL PM TB LINE 24	FOOT	306.000	X			=		
78300100	PAVT MARKING REMOVAL	SQ FT	333.000	X			=		
81000600	CON T 2 GALVS	FOOT	139.000	X			=		
81000700	CON T 2 1/2 GALVS	FOOT	62.000	X			=		
81000800	CON T 3 GALVS	FOOT	27.000	X			=		
81001000	CON T 4 GALVS	FOOT	17.000	X			=		
81001100	CON T 5 GALVS	FOOT	20.000	X			=		
81018500	CON P 2 GALVS	FOOT	102.000	X			=		
81018900	CON P 4 GALVS	FOOT	363.000	X			=		
81019000	CON P 5 GALVS	FOOT	124.000	X			=		
81400100	HANDHOLE	EACH	4.000	X			=		
81400300	DBL HANDHOLE	EACH	4.000	X			=		
81900200	TR & BKFIL F ELECT WK	FOOT	265.000	X			=		
84400105	RELOC EX LT UNIT	EACH	1.000	X			=		
85700205	FAC T4 CAB SPL	EACH	1.000	X			=		

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY		UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
85700305	FAC T5 CAB SPL	EACH	1.000	X			=		
86000105	MASTER CONTROLLER SPL	EACH	1.000	X			=		
87301215	ELCBL C SIGNAL 14 2C	FOOT	2,019.000	X			=		
87301225	ELCBL C SIGNAL 14 3C	FOOT	2,638.000	X			=		
87301245	ELCBL C SIGNAL 14 5C	FOOT	2,260.000	X			=		
87301255	ELCBL C SIGNAL 14 7C	FOOT	1,976.000	X			=		
87301805	ELCBL C SERV 6 2C	FOOT	92.000	X			=		
87502500	TS POST GALVS 16	EACH	4.000	X			=		
87700190	S MAA & P 30	EACH	2.000	X			=		
87700210	S MAA & P 34	EACH	1.000	X			=		
87700240	S MAA & P 40	EACH	1.000	X			=		
87702910	STL COMB MAA&P 36	EACH	3.000	X			=		
87702920	STL COMB MAA&P 38	EACH	1.000	X			=		
87800100	CONC FDN TY A	FOOT	16.000	X			=		
87800150	CONC FDN TY C	FOOT	8.000	X			=		

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY		UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
87800400	CONC FDN TY E 30D	FOOT	45.000	X			=		
87800415	CONC FDN TY E 36D	FOOT	75.000	X			=		
88030020	SH LED 1F 3S MAM	EACH	10.000	X			=		
88030050	SH LED 1F 3S BM	EACH	2.000	X			=		
88030100	SH LED 1F 5S BM	EACH	4.000	X			=		
88030110	SH LED 1F 5S MAM	EACH	6.000	X			=		
88030240	SH LED 2F 1-3 1-5 BM	EACH	2.000	X			=		
88102717	PED SH LED 1F BM CDT	EACH	6.000	X			=		
88102747	PED SH LED 2F BM CDT	EACH	5.000	X			=		
88200310	TS BACKPLATE LOU PLAS	EACH	16.000	X			=		
88700200	LIGHT DETECTOR	EACH	4.000	X			=		
88700300	LIGHT DETECTOR AMP	EACH	2.000	X			=		
88800100	PED PUSH-BUTTON	EACH	16.000	X			=		
89000100	TEMP TR SIG INSTALL	EACH	2.000	X			=		
89502375	REMOV EX TS EQUIP	EACH	2.000	X			=		

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY		UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
89502380	REMOV EX HANDHOLE	EACH	7.000	X			=		
89502385	REMOV EX CONC FDN	EACH	17.000	X			=		
						TOTAL	$		

NOTE:

1. EACH PAY ITEM SHOULD HAVE A UNIT PRICE AND A TOTAL PRICE.
2. THE UNIT PRICE SHALL GOVERN IF NO TOTAL PRICE IS SHOWN OR IF THERE IS A DISCREPANCY BETWEEN THE PRODUCT OF THE UNIT PRICE MULTIPLIED BY THE QUANTITY.
3. IF A UNIT PRICE IS OMITTED, THE TOTAL PRICE WILL BE DIVIDED BY THE QUANTITY IN ORDER TO ESTABLISH A UNIT PRICE.
4. A BID MAY BE DECLARED UNACCEPTABLE IF NEITHER A UNIT PRICE NOR A TOTAL PRICE IS SHOWN.

RETURN WITH BID

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

I. GENERAL

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

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

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

II. ASSURANCES

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

B. Felons

1. The Illinois Procurement Code provides:

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

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

C. Conflicts of Interest

1. The Illinois Procurement Code provides in pertinent part:

Section 50-13. Conflicts of Interest.

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

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

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

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

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

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

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

D. Negotiations

1. The Illinois Procurement Code provides in pertinent part:

Section 50-15. Negotiations.

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

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

E. Inducements

1. The Illinois Procurement Code provides:

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

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

F. Revolving Door Prohibition

1. The Illinois Procurement Code provides:

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

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

G. Reporting Anticompetitive Practices

1. The Illinois Procurement Code provides:

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

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

H. Confidentiality

1. The Illinois Procurement Code provides:

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

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

RETURN WITH BID

I. Insider Information

1. The Illinois Procurement Act provides:

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

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

III. CERTIFICATIONS

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

B. Bribery

1. The Illinois Procurement Code provides:

Section 50-5. Bribery.

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

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

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

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

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

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

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

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

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

C. Educational Loan

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

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

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

D. Bid-Rigging/Bid Rotating

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

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

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

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

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

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

E. International Anti-Boycott

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

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

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

F. Drug Free Workplace

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

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

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

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

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

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

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

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

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

G. Debt Delinquency

1. The Illinois Procurement Code provides:

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

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

H. Sarbanes-Oxley Act of 2002

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

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

I. Addenda

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

J. Section 42 of the Environmental Protection Act

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

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

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

NA - FEDERAL

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

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

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

M. Disclosure of Business Operations in Iran

Public Act 95-0616 provides that each bid, offer, or proposal submitted for a State contract shall include a disclosure of whether or not the Company acting as the bidder, 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 Act.

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

Check the appropriate statement:

/___/ Company has no business operations in Iran to disclose.

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

TO BE RETURNED WITH BID

IV. DISCLOSURES

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

B. Financial Interests and Conflicts of Interest

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

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

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

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

C. Disclosure Form Instructions

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

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

CERTIFICATION STATEMENT

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

_____
(Bidding Company)

☐ _____ _____
Signature of Authorized Representative Date

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

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

1. Does anyone in your organization have a direct or beneficial ownership share of greater than 5% of the bidding entity or parent entity? YES ___ NO___
2. Does anyone in your organization have a direct or beneficial ownership share of less than 5%, but which has a value greater than $102,600.00? YES ___ NO___
3. Does anyone in your organization receive more than $102,600.00 of the bidding entity's or parent entity's distributive income? (Note: Distributive income is, for these purposes, any type of distribution of profits. An annual salary is not distributive income.) YES ___ NO __
4. Does anyone in your organization receive greater than 5% of the bidding entity's or parent entity's total distributive income, but which is less than $102,600.00? YES ___ NO __

   (Note: Only one set of forms needs to be completed per person per bid even if a specific individual would require a yes answer to more than one question.)

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

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

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

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

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

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

D. Bidders Submitting More Than One Bid

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

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

_____

_____

RETURN WITH BID/OFFER

ILLINOIS DEPARTMENT OF TRANSPORTATION

Form A
Financial Information & Potential Conflicts of Interest Disclosure

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

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

DISCLOSURE OF FINANCIAL INFORMATION

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

FOR INDIVIDUAL (type or print information)

NAME: _____

ADDRESS _____

_____

Type of ownership/distributable income share:

stock _____ sole proprietorship _____ Partnership _____ other: (explain on separate sheet):

% or $ value of ownership/distributable income share: _____

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

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

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

1. Are you currently an officer or employee of either the Capitol Development Board or the Illinois Toll Highway Authority? Yes ___ No __

2. Are you currently appointed to or employed by any agency of the State of Illinois? If you are currently appointed to or employed by any agency of the State of Illinois, and your annual salary exceeds $102,600.00, (60% of the Governor's salary as of 7/1/07) provide the name the State agency for which you are employed and your annual salary. _____
_____

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

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

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

Yes ___No __

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

1. Is your spouse or any minor children currently an officer or employee of the Capitol Development Board or the Illinois Toll Highway Authority? Yes ___No __

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

3. If your spouse or any minor children is/are currently appointed to or employed by any agency of the State of Illinois, and his/her annual salary exceeds $102,600.00, (60% of the salary of the Governor as of 7/1/07) are you entitled to receive (i) more than 71/2% of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of the salary of the Governor? Yes ___ No __

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

Yes ___ No __

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

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

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

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

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

RETURN WITH BID/OFFER

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

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

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

APPLICABLE STATEMENT

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

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

NOT APPLICABLE STATEMENT

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

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

☐ _____ _____
Signature of Authorized Representative — Date

RETURN WITH BID/OFFER

ILLINOIS DEPARTMENT OF TRANSPORTATION

Form B
Other Contracts & Procurement Related Information Disclosure

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

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

DISCLOSURE OF OTHER CONTRACTS AND PROCUREMENT RELATED INFORMATION

1. Identifying Other Contracts & Procurement Related Information. The BIDDER shall identify whether it has any pending contracts (including leases), bids, proposals, or other ongoing procurement relationship with any other State of Illinois agency: Yes ___ No __
If "No" is checked, the bidder only needs to complete the signature box on the bottom of this page.

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

THE FOLLOWING STATEMENT MUST BE CHECKED

☐ _____ _____
Signature of Authorized Representative Date

RETURN WITH BID

SPECIAL NOTICE TO CONTRACTORS

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

CONSTRUCTION EMPLOYEE UTILIZATION PROJECTION

(a) All bidders on construction contracts shall complete and submit, along with and as part of their bids, a Bidder's Employee Utilization Form (Form BC-1256) setting forth a projection and breakdown of the total workforce intended to be hired and/or allocated to such contract work by the bidder including a projection of minority and female employee utilization in all job classifications on the contract project.

(b) The Department of Transportation shall review the Employee Utilization Form, and workforce projections contained therein, of the contract awardee to determine if such projections reflect an underutilization of minority persons and/or women in any job classification in accordance with the Equal Employment Opportunity Clause and Section 7.2 of the Illinois Department of Human Rights' Rules and Regulations for Public Contracts adopted as amended on September 17, 1980. If it is determined that the contract awardee's projections reflect an underutilization of minority persons and/or women in any job classification, it shall be advised in writing of the manner in which it is underutilizing and such awardee shall be considered to be in breach of the contract unless, prior to commencement of work on the contract project, it submits revised satisfactory projections or an acceptable written affirmative action plan to correct such underutilization including a specific timetable geared to the completion stages of the contract.

(c) The Department of Transportation shall provide to the Department of Human Rights a copy of the contract awardee's Employee Utilization Form, a copy of any required written affirmative action plan, and any written correspondence related thereto. The Department of Human Rights may review and revise any action taken by the Department of Transportation with respect to these requirements.

RETURN WITH BID

Illinois Department of Transportation

Contract No. 83952
DUPAGE County
Section 03-00148-00-PV (Lombard)
Project ACM-8003(521)
Route FAU 2611 (Main Street)
District 1 Construction Funds

PART I. IDENTIFICATION

Dept. Human Rights # _____ Duration of Project: _____

Name of Bidder: _____

PART II. WORKFORCE PROJECTION

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

TABLE A

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

TABLE C

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

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

FOR DEPARTMENT USE ONLY

BC 1256 (Rev. 12/11/08)

Note: See instructions on page 2

PART II. WORKFORCE PROJECTION - continued

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

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

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

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

PART III. AFFIRMATIVE ACTION PLAN

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

B. The undersigned bidder understands and agrees that the minority and female employee utilization projection submitted herein, and the goals and timetable included under an Affirmative Action Plan if required, are deemed to be part of the contract specifications.

Company _____ Telephone Number _____

_____

Address _____

NOTICE REGARDING SIGNATURE

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

Signature: ☐ _____ Title: _____ Date: _____

Instructions: All tables must include subcontractor personnel in addition to prime contractor personnel.

Table A - Include both the number of employees that would be hired to perform the contract work and the total number currently employed (Table B) that will be allocated to contract work, and include all apprentices and on-the-job trainees. The "Total Employees" column should include all employees including all minorities, apprentices and on-the-job trainees to be employed on the contract work.

Table B - Include all employees currently employed that will be allocated to the contract work including any apprentices and on-the-job trainees currently employed.

Table C - Indicate the racial breakdown of the total apprentices and on-the-job trainees shown in Table A.

RETURN WITH BID

ADDITIONAL FEDERAL REQUIREMENTS

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

A. By the execution of this proposal, the signing bidder certifies that the bidding entity has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action, in restraint of free competitive bidding in connection with the submitted bid. This statement made by the undersigned bidder is true and correct under penalty of perjury under the laws of the United States.

B. CERTIFICATION, EQUAL EMPLOYMENT OPPORTUNITY:

1. Have you participated in any previous contracts or subcontracts subject to the equal opportunity clause. YES _____ NO _____

2. If answer to #1 is yes, have you filed with the Joint Reporting Committee, the Director of OFCC, any Federal agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements of those organizations? YES _____ NO _____

RETURN WITH BID

Contract No. 83952
DUPAGE County
Section 03-00148-00-PV (Lombard)
Project ACM-8003(521)
Route FAU 2611 (Main Street)
District 1 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 _____

(IF AN INDIVIDUAL) Signature of Owner _____

Business Address _____

_____

Firm Name _____

By _____

(IF A CO-PARTNERSHIP) Business Address _____

_____

Name and Address of All Members of the Firm:

_____ _____

Corporate Name _____

By _____
Signature of Authorized Representative

(IF A CORPORATION)

_____
Typed or printed name and title of Authorized Representative

Attest _____
Signature

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

Corporate Name _____

By _____
Signature of Authorized Representative

(IF A JOINT VENTURE)

_____
Typed or printed name and title of Authorized Representative

Attest _____
Signature

Business Address _____

_____

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

Illinois Department of Transportation

Return with Bid

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

Item No. _____

Letting Date _____

KNOW ALL MEN BY THESE PRESENTS, That We _____

_____

as PRINCIPAL, and _____

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

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

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

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

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

their respective officers this _____ day of _____ A.D., _____ .

PRINCIPAL

_____ _____
(Company Name) (Company Name)

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

Notary Certification for Principal and Surety

STATE OF ILLINOIS,

County of _____

I, _____ , a Notary Public in and for said County, do hereby certify that

_____ and _____
(Insert names of individuals signing on behalf of PRINCIPAL & SURETY)

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

Given under my hand and notarial seal this _____ day of _____ A.D. _____

My commission expires _____ _____
Notary Public

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

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

PROPOSAL ENVELOPE

Illinois Department of Transportation

PROPOSALS

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

Item No.	Item No.	Item No.

Submitted By:

Name:
Address:
Phone No.

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

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

NOTICE

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

CONTRACTOR OFFICE COPY OF CONTRACT SPECIFICATIONS

NOTICE

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

Contract No. 83952
DUPAGE County
Section 03-00148-00-PV (Lombard)
Project ACM-8003(521)
Route FAU 2611 (Main Street)
District 1 Construction Funds

Illinois Department of Transportation

Illinois Department of Transportation

NOTICE TO BIDDERS

1. **TIME AND PLACE OF OPENING BIDS.** Sealed proposals for the improvement described herein will be received by the Department of Transportation at the Harry R. Hanley Building, 2300 South Dirksen Parkway, in Springfield, Illinois until 10:00 o'clock a.m., March 7, 2008. All bids will be gathered, sorted, publicly opened and read in the auditorium at the Department of Transportation's Harry R. Hanley Building shortly after the 10:00 a.m. cut off time.

2. **DESCRIPTION OF WORK**. The proposed improvement is identified and advertised for bids in the Invitation for Bids as:

   Contract No. 83952
   DUPAGE County
   Section 03-00148-00-PV (Lombard)
   Project ACM-8003(521)
   Route FAU 2611 (Main Street)
   District 1 Construction Funds

Project consists of earth excavation and pavement removal, storm sewers, drainage structures, water main removal and replacement, combination curb and gutter, HMA binder and surface courses, traffic signal modernization and all other incidental items to complete the work on FAU Route 2611 (Main Street) from Wilson Avenue to Illinois Route 38 in the Village of Lombard.

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

   (b) State law, and, if the work is to be paid wholly or in part with Federal-aid funds, Federal law requires the bidder to make various certifications as a part of the proposal and contract. By execution and submission of the proposal, the bidder makes the certification contained therein. A false or fraudulent certification shall, in addition to all other remedies provided by law, be a breach of contract and may result in termination of the contract.

4. **AWARD CRITERIA AND REJECTION OF BIDS**. This contract will be awarded to the lowest responsive and responsible bidder considering conformity with the terms and conditions established by the Department in the rules, Invitation for Bids and contract documents. The issuance of plans and proposal forms for bidding based upon a prequalification rating shall not be the sole determinant of responsibility. The Department reserves the right to determine responsibility at the time of award, to reject any or all proposals, to readvertise the proposed improvement, and to waive technicalities.

By Order of the
Illinois Department of Transportation

Milton R. Sees, Secretary

BD 351 (Rev. 01/2003)

INDEX
FOR
SUPPLEMENTAL SPECIFICATIONS
AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2008

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

ERRATA Standard Specifications for Road and Bridge Construction (Adopted 1-1-07) (Revised 1-1-08)

SUPPLEMENTAL SPECIFICATIONS

RECURRING SPECIAL PROVISIONS

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

INDEX OF SPECIAL PROVISIONS

INDEX LOCAL ROADS AND STREETS SPECIAL PROVISIONS

LR #	Pg #		Special Provision Title	Effective	Revised
LR SD 12			Slab Movement Detection Device	Nov. 11, 1984	Jan. 1, 2007
LR SD 13			Required Cold Milled Surface Texture	Nov. 1, 1987	Jan. 1, 2007
LR 102			Protests on Local Lettings	Jan. 1, 2007	
LR 105	107	X	Cooperation with Utilities	Jan. 1, 1999	Jan. 1, 2007
LR 107-2			Railroad Protective Liability Insurance for Local Lettings	Mar. 1, 2005	Jan. 1, 2006
LR 107-3			Disadvantaged Business Enterprise Participation	Jan. 1, 2007	
LR 107-4	110	X	Insurance	Feb. 1, 2007	Aug. 1, 2007
LR 108			Combination Bids	Jan. 1, 1994	Mar. 1, 2005
LR 212			Shaping Roadway	Aug. 1, 1969	Jan. 1, 2002
LR 355-1			Asphalt Stabilized Base Course, Road Mix or Traveling Plant Mix	Oct. 1, 1973	Jan. 1, 2007
LR 355-2			Asphalt Stabilized Base Course, Plant Mix	Feb. 2, 1963	Jan. 1, 2007
LR 400-1			Bituminous Treated Earth Surface	Jan. 1, 2008	
LR 400-2			Bituminous Surface Mixture (Class B)	Jan. 1, 2008	
LR 400-3			Pavement Rehabilitation by the Heat-Scarify-Overlay Method	Jan. 1, 2008	
LR 402			Salt Stabilized Surface Course	Feb. 20, 1963	Jan. 1, 2007
LR 403-2			Bituminous Hot Mix Sand Seal Coat	Aug. 1, 1969	Jan. 1, 2007
LR 406			Filling HMA Core Holes with Non-shrink Grout	Jan. 1, 2008	
LR 420			PCC Pavement (Special)	May 12, 1964	Jan. 2, 2007
LR 442			Bituminous Patching Mixtures for Maintenance Use	Jan. 1, 2004	Jun. 1, 2007
LR 451			Crack Filling Bituminous Pavement with Fiber-Asphalt	Oct. 1, 1991	Jan. 1, 2007
LR 503-1			Furnishing Class SI Concrete	Oct. 1, 1973	Jan. 1, 2002
LR 503-2			Furnishing Class SI Concrete (Short Load)	Jan. 1, 1989	Jan. 1, 2002
LR 542			Pipe Culverts, Type _____ (Furnished)	Sep. 1, 1964	Jan. 1, 2007
LR 663			Calcium Chloride Applied	Jun. 1, 1958	Jan. 1, 2007
LR 702			Construction and Maintenance Signs	Jan. 1, 2004	Jun. 1, 2007
LR 1004			Coarse Aggregate for Bituminous Surface Treatment	Jan. 1, 2002	Jan. 1, 2007
LR 1013			Rock Salt (Sodium Chloride)	Aug. 1, 1969	Jan. 1, 2002
LR 1032-1			Penetrating Emulsions	Jan. 1, 2007	Feb. 1, 2007
LR 1032-2			Multigrade Cold Mix Asphal	Jan. 1, 2007	Feb. 1, 2007
LR 1102			Road Mix or Traveling Plan Mix Equipment	Jan. 1, 2007	

BDE SPECIAL PROVISIONS
For the January 18 and March 7, 2008 Lettings

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

File Name	Pg#		Special Provision Title	Effective	Revised
80099			Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2007
80186	111	X	Alkali-Silica Reaction for Cast-in-Place Concrete	Aug. 1, 2007	
80108			Asbestos Bearing Pad Removal	Nov. 1, 2003	
7254I			Asbestos Waterproofing Membrane and Asbestos Hot-Mix Asphalt Surface Removal	June 1, 1989	Jan. 2, 2007
* 80192			Automated Flagger Assistance Device	Jan. 1, 2008	
80173	114	X	Bituminous Materials Cost Adjustments	Nov. 2, 2006	Jan. 2, 2007
5026I			Building Removal-Case I (Non-Friable and Friable Asbestos)	Sept. 1, 1990	Jan. 1, 2007
5048I			Building Removal-Case II (Non-Friable Asbestos)	Sept. 1, 1990	Jan. 1, 2007
5049I			Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	Jan. 1, 2007
5053I			Building Removal-Case IV (No Asbestos)	Sept. 1, 1990	Jan. 1, 2007
80166	117	X	Cement	Jan. 1, 2007	Nov. 1, 2007
* 80193			Concrete Barrier	Jan. 1, 2008	
80177			Digital Terrain Modeling for Earthwork Calculations	April 1, 2007	
80029	120	X	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	Jan. 1, 2007
* 80178	128	X	Dowel Bars	April 1, 2007	Jan. 1, 2008
80167	129	X	Electrical Service Installation – Traffic Signals	Jan. 1, 2007	
80190			Engineer's Field Office (Long Distance Bill)	Nov. 1, 2007	
80179			Engineer's Field Office Type A	April 1, 2007	
80175			Epoxy Pavement Markings	Jan. 1, 2007	
* 80189	130	X	Equipment Rental Rates	Aug. 2, 2007	Jan. 2, 2008
80180	132	X	Erosion and Sediment Control Deficiency Deduction	April 1, 2007	
80169			High Tension Cable Median Barrier	Jan. 1, 2007	
* 80194			HMA – Hauling on Partially Completed Full-Depth Pavement	Jan. 1, 2008	
80181	133	X	Hot-Mix Asphalt – Field Voids in the Mineral Aggregate	April 1, 2007	
* 80136			Hot-Mix Asphalt Mixture IL-4.75	Nov. 1, 2004	Jan. 1, 2008
* 80195	135	X	Hot-Mix Asphalt Mixture IL-9.5L	Jan. 1, 2008	
80109			Impact Attenuators	Nov. 1, 2003	Jan. 1, 2007
80110			Impact Attenuators, Temporary	Nov. 1, 2003	Jan. 1, 2007
* 80196	136	X	Mast Arm Assembly and Pole	Jan. 1, 2008	
80045			Material Transfer Device	June 15, 1999	Jan. 1, 2007
80165			Moisture Cured Urethane Paint System	Nov. 1, 2006	Jan. 1, 2007
80082	138	X	Multilane Pavement Patching	Nov. 1, 2002	
80129			Notched Wedge Longitudinal Joint	July 1, 2004	Jan. 1, 2007
80182			Notification of Reduced Width	April 1, 2007	
* 80069			Organic Zinc-Rich Paint System	Nov. 1, 2001	Jan. 1, 2008
80022	139	X	Payments to Subcontractors	June 1, 2000	Jan. 1, 2006
80134			Plastic Blockouts for Guardrail	Nov. 1, 2004	Jan. 1, 2007
80119			Polyurea Pavement Marking	April 1, 2004	Jan. 1, 2007
80170	141	X	Portland Cement Concrete Plants	Jan. 1, 2007	
80171	143	X	Precast Handling Holes	Jan. 1, 2007	
80015			Public Convenience and Safety	Jan. 1, 2000	
3426I			Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2006
80157			Railroad Protective Liability Insurance (5 and 10)	Jan. 1, 2006	
80172	145	X	Reclaimed Asphalt Pavement (RAP)	Jan. 1, 2007	Aug. 1, 2007

File Name	Pg#		Special Provision Title	Effective	Revised
80183	151	X	Reflective Sheeting on Channelizing Devices	April 1, 2007	
* 80151	152	X	Reinforcement Bars	Nov. 1, 2005	Jan. 2, 2008
80164			Removal and Disposal of Regulated Substances	Aug. 1, 2006	Jan. 1, 2007
80184			Retroreflective Sheeting, Nonreflective Sheeting, and Translucent Overlay Film for Highway Signs	April 1, 2007	
80131			Seeding	July 1, 2004	Aug. 1, 2007
80152	154	X	Self-Consolidating Concrete for Cast-In-Place Construction	Nov. 1, 2005	Jan. 1, 2007
80132	159	X	Self-Consolidating Concrete for Precast Products	July 1, 2004	Jan. 1, 2007
* 80197			Silt Filter Fence	Jan. 1, 2008	
80127			Steel Cost Adjustment	April 2, 2004	April 1, 2007
80153			Steel Plate Beam Guardrail	Nov. 1, 2005	Aug. 1, 2007
80191	161	X	Stone Gradation Testing	Nov. 1, 2007	
80143	162	X	Subcontractor Mobilization Payments	April 2, 2005	
80075			Surface Testing of Pavements	April 1, 2002	Jan. 1, 2007
* 80087	163	X	Temporary Erosion Control	Nov. 1, 2002	Jan. 1, 2008
80176			Thermoplastic Pavement Markings	Jan. 1, 2007	
80161	164	X	Traffic Signal Grounding	April 1, 2006	Jan. 1, 2007
20338	166	X	Training Special Provisions	Oct. 15, 1975	
80185			Type ZZ Retroreflective Sheeting, Nonreflective Sheeting, and Translucent Overlay Film for Highway Signs	April 1, 2007	
80162			Uninterruptable Power Supply (UPS)	April 1, 2006	Jan. 1, 2007
80149			Variable Spaced Tining	Aug. 1, 2005	Jan. 1, 2007
80163	169	X	Water Blaster with Vacuum Recovery	April 1, 2006	Jan. 1, 2007
80071			Working Days	Jan. 1, 2002	

The following special provisions have been **deleted** from use:

80187 Legal Requirements to be Observed

The following special provisions are in the 2008 Supplemental Specifications and Recurring Special Provisions:

File Name	Special Provision Title	New Location	Effective	Revised
80168	Errata for the 2007 Standard Specifications	Supplemental	Jan. 1, 2007	Aug.1, 2007
80142	Hot-Mix Asphalt Equipment, Spreading and Finishing Machine	Article 1102.3	Jan. 1, 2005	Jan. 1, 2007
80148	Planting Woody Plants	Section 253	Jan. 1, 2006	
80160	Reflective Crack Control Treatment	Section 443, Article 1062.04	April 1, 2006	Jan. 1, 2007
80154	Turf Reinforcement Mat	Section 251	Nov. 1, 2005	Jan. 1, 2007

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

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

STATE OF ILLINOIS

SPECIAL PROVISIONS

The following Special Provisions supplement the **"Standard Specifications for Road and Bridge Construction"**, adopted January 1, 2007 (hereinafter referred to as the "Standard Specifications"); the latest edition of the **"Manual on Uniform Traffic Control Devices for Streets and Highways"**; the **"Manual of Test Procedures for Materials"** in effect on the date of invitation for bids; **"The Standard Specifications for Sewer and Water Construction in Illinois"**, May 1996, Fifth Edition; and the **"Supplemental Specifications and Recurring Special Provisions"** indicated on the Check Sheet included herein; all of which apply to and govern the construction of F.A.U. Route 2611 (Main Street), Section 03-00148-00-PV, Project: M-8003(521), 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

This project is located along Main Street in the Village of Lombard in DuPage County. The limit of the project is from Roosevelt Road to Wilson Avenue. The roadway improvement has a total length of 1,475 feet or 0.279 mile and the utility improvement has a total length of 2,561 feet or 0.485 mile.

Description of Project

This is a roadway widening and resurfacing project, and the work to be performed under this contract consists of earth excavation and pavement removal, construction of storm sewers, and drainage structures, water main removal and replacement, combination concrete curb and gutter, hot-mix asphalt binder and surface courses, driveway reconstruction, concrete sidewalks, traffic signal modernization, sodding and all incidental and collateral work necessary to complete the project as shown on the plans and as described herein.

Completion Date

This contract has been prepared in accordance with Section 108.05 of the Standard Specifications to include a Completion Date plus working days. The completion date is August 22, 2008, with 20 working days following thereafter to allow for completion of off-road and miscellaneous items. The Contractor shall schedule his operations to complete all major items and open the roadway improvement to all traffic on or before August 22, 2008 with the exception of HMA surface course, final pavement markings, landscaping and punch list items.

Cooperation With Other Contracts

The intent of this provision is to inform the Contractor that the Village is aware of adjacent contract that is currently scheduled during the same time period as this contract. The Contractor shall coordinate with the Village and the Resident Engineer of the projects listed below.

1. Glenbard East High School Access Improvement
   West of Central Avenue to Wilson Avenue

2. Main Street Lighting Project
   North of Roosevelt Road to Maple Street and
   St. Charles Road to North Avenue

The Glenbard East High School Access Improvement project consists of continuing the widening on the west side of Main Street to maintain the 5 lane cross section from Central Avenue to Wilson Avenue. Glenbard South High School southern most driveway will be widen to provide 3 lanes, a right and left turn lane exiting the parking lot and one lane entering.

The Main Street Lighting project consists of street lighting improvements along Main Street corridor.

The Contractor is required to cooperate with the adjacent contracts in accordance with Section 105.08 of the Standard Specifications and may be required to modify his staging operations in order to meet these requirements.

Maintenance of Roadways
Effective: September 30, 1985 Revised: November 1, 1996

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

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

Keeping Roads Open to Traffic

Except for approved closures as depicted on the Maintenance of Traffic plans, all roads shall be kept open to local traffic during the entire construction period. The Contractor may close one lane of traffic (because of construction) only between the hours of 9:00 a.m. and 3:00 p.m.

When necessary to close one lane of the roadway, the Contractor shall maintain one-way traffic during the restricted hours with the use of signs and flaggers as shown on the Traffic Control Standards. Two lanes of traffic will be maintained between 3:00 p.m. and 9:00 a.m. and when no construction activities are being carried on. The Engineer may waive the lane closure time restriction at his discretion.

Full closure of Main Street shall not be allowed.

The Contractor shall limit any drop-off between lanes to 1-1/2" during any overnight period.

Traffic Control Plan
Effective: September 30, 1985
Revised: January 1, 2007

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

Special attention is called to Article 107.09 of the Standard Specifications and the following Highway Standards, Details, Quality Standard for Work Zone Traffic Control Devices, Recurring Special Provisions and Special Provisions contained herein, relating to traffic control.

The Contractor shall contact the District One Bureau of Traffic at least 72 hours in advance of beginning work.

STANDARDS

701501-03, 701601-04, 701701-04, 701801-03 and 702001-06.

DETAILS

Maintenance of Traffic Plan (Plan Sheets No. 6 to 8)
Detour Plan (Plan Sheet No. 9)
Temporary Information Signing (Plan Sheet No. 8)
Traffic Control and Protection for Side Roads, Intersections & Driveways (Plan Sheet No. 46)

SPECIAL PROVISIONS

"Traffic Control and Protection"
"Temporary Information Signing"
"Maintenance of Roadways"
"Keeping Roads Open to Traffic"

Traffic Control and Protection for Temporary Detour

Effective: September 1, 1995
Revised: January 1, 2007

When traffic is to be directed over a detour route, the Contractor shall furnish, erect, maintain and remove all applicable traffic control devices along the detour route according to the details shown in the plans.

Basis of Payment. This work will be paid for at the contract unit price each for TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR.

Temporary Information Signing

This item shall consist of furnishing, installing, maintaining and subsequently removing temporary informational signing at locations and in accordance with the details included in the plans.

Materials shall be according to the following portions of Section 1000 of the "Standard Specifications":

a. Sign Base (see Notes 1 & 2).....Section 1090
b. Sign Face (see Note 3).....Section 1091
c. Sign Legends.....Section 1092
d. Sign Supports.....Section 1093
e. Overlay Panels (see Note 4).....Article 1090.01

Note 1. The Contractor may use 5/8-inch instead of 3/4-inch plywood.

Note 2. Type A sheeting can be used on the plywood base.

Note 3. All sign faces shall be Type A except that all orange signs shall meet the requirements of Article 1106.01.

Note 4. The overlay panels shall be 0.08-inch thick.

The sign sizes and legend sizes shall be verified by the Contractor prior to fabrication. The legends shall be as determined by the Engineer.

The signs shall be placed along the roadway according to the requirements of Articles 701.14 and 701.16. They shall be 7 feet above the near edge of the pavement and a minimum of 2 feet beyond the back of curb. A minimum of 2 posts shall be used.

Basis of Payment. This work will be paid for at the contract unit price per square foot for TEMPORARY INFORMATION SIGNING, which price shall include all hardware, posts or skids, supports and connections required for mounting the signs in a manner approved by the Engineer.

Status of Utilities to be Adjusted
Effective: January 30, 1987 Revised: July 1, 1994

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

Name of Utility	Type	Location	Estimated Dates for Start and Completion of Relocation or Adjustments
SBC	Underground	Various	During Construction
ComED	Overhead	Various	Before Construction
AT&T	Underground	Various	During Construction
Comcast	Overhead/ Underground	Various	Before Construction
MCI	Underground	Various	During Construction
Nicor Gas	Underground	Various	During Construction
Dupage Water Commission	Underground	No conflict anticipated	

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

Concrete Breakers

When removing curb and gutter, pavement or any other structure, the Contractor shall take every precaution necessary to ensure that there will be no damage to underground public or private utilities. Under no circumstances will the use of a frost ball concrete breaker be allowed.

Disposal of Surplus Material

The Contractor is prohibited from burning any material within or adjacent to the project limits.

All excess or waste material shall be either hauled away from the project site by the Contractor and deposited at locations provided by him, or disposed of within the right-of-way in a manner other than burning, subject to the approval of the Engineer.

No extra compensation will be allowed the Contractor for any expense incurred by complying with the requirements of this Special Provision.

SECTION 201. CLEARING, TREE REMOVAL AND PROTECTION, CARE AND REPAIR OF EXISTING PLANT MATERIAL

REV. 01/07

This work shall be performed in accordance with Section 201 of the Standard Specifications with the following alterations.

201.01 Description. Add the following: "(f) Certified Arborist: At least one individual who has passed and received "Arborist Certification" from the International Society of Arboriculture" must witness the work being performed. His/Her name(s) and certification number(s) must be submitted to the ENGINEER prior to prosecution of the work. The certified arborist must be on site during execution of the work."

201.04 Tree Removal. Add the following, "For all necessary tree removal activities, limbs and branches larger than six (6) inches in diameter shall be lowered to the ground through the use of ropes or other mechanical devices. Damages to private lawns, shall be repaired with sod or if approved by the ENGINEER the damaged area may be filled with black dirt and seeded with a turf grass seed lawn mix.

201.05 Protection of Existing Plant Material. Delete the first sentence from Article 201.05 (c): and replace with "All equipment to be used and all work to be performed must be in full compliance with the most current revision of the American National Standards, Institute Standard A300-2001 Pruning Standards and Z133.1-2006 Safety Standards. For all necessary tree pruning activities, limbs and branches larger than six (6) inches in diameter shall be lowered to the ground through the use of ropes or other mechanical devices. Damages to private lawns, shall be repaired with sod or if approved by the ENGINEER the damaged area may be filled with black dirt and seeded with a turf grass seed lawn mix."

201.06 Care of Existing Plant Material. Delete the second and third sentences from Article 201.06 (b): and replace with: "The CONTRACTOR shall trim all trees designated by using a combination of the following pruning types: Crown Cleaning, Crown Thinning and Crown Raising, which involves removal of dead, dying, diseased, crowded, weakly attached, low vigor branches, one inch in diameter and larger, major interfering limbs, and sucker growth from the base up to a height of 14 feet. The tree is to be elevated to 14 feet above street, based on structure of the tree and overhanging limbs. The crew will uniformly balance the tree structure on the private property side of the right-of-way."

SECTION 202. EARTH AND ROCK EXCAVATION

CIVILTECH REV. 02/07

This work shall be performed in accordance with Section 202 of the Standard Specifications with the following alterations.

Add the following:
Construction Requirements. EARTH EXCAVATION is defined as excavation of suitable material that shall either be transported and placed throughout the limits of the contract in accordance with Section 205, or disposed of off site. Earth Excavation quantity does not include undercutting of unsuitable sub-grade soils, which are paid for separately under the contract pay item REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL

At locations where existing pavement removal and excavation is indicated in the plans, or as otherwise directed by the Engineer, it may be necessary to remove underlying unsuitable soils. It is understood and agreed that the actual need for removal of unsuitable material will be determined in the field at the time of construction by the Engineer. Excavation for the removal of unsuitable soils is to begin at the

individual soil boring locations where unsuitable soils are identified (refer to Appendix B for soil borings) and will progress outward from the soil boring location until suitable sub-base material is exposed. The Bidder may examine the entire geotechnical report, which is on file with the Village.

The limits of unsuitable material shown in the plans are estimated, and where unstable soils are encountered the soils removed and replaced will be measured for payment. If unstable soils are not encountered, the quantities will be deducted and no additional compensation will be due the Contractor. All unsuitable material shall be removed from the site and disposed of according to Article 202.03. The resulting excavation shall be backfilled with porous granular embankment or as specified elsewhere herein.

Porous Granular Embankment, Subgrade.

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

This work consists of furnishing, placing, and compacting porous granular material to the lines and grades shown on the plans or as directed by the Engineer in accordance with applicable portions of Section 207. The material shall be used as a bridging layer over soft, pumpy, loose soil and for placing under water and shall conform with Article 1004.04 except the gradation shall be as follows:

1. Crushed Stone, Crushed Blast Furnace Slag, and Crushed Concrete

Sieve Size	Percent Passing
*6 in. (150 mm)	97 ± 3
*4 in. (100 mm)	90 ± 10
2 in. (50 mm)	45 ± 25
No. 200 (75 µm)	5 ± 5

2. Gravel, Crushed Gravel and Pit Run Gravel

Sieve Size	Percent Passing
*6 in. (150 mm)	97 ± 3
*4 in. (100 mm)	90 ± 10
2 in. (50 mm)	55 ± 25
No. 4 (4.75 mm)	30 ± 20
No. 200 (75 µm)	5 ± 5

*For undercut greater than18 inches (450 mm) the percent passing the 6 inch (150 mm) sieve may be 90 ± 10 and the 4 inch (100 mm) sieve requirements eliminated.

The porous granular material shall be placed in one lift when the total thickness to be placed is 2 feet (600 mm) or less or as directed by the Engineer. Each lift of the porous granular material shall be rolled with a vibratory roller meeting the requirements of Article 1101.01(g) to obtain the desired keying or interlock and compaction. The Engineer shall verify that adequate keying has been obtained.

A 3 inch (75 mm) nominal thickness top lift of capping aggregate having a gradation of CA 6 will be required when Aggregate Subgrade is not specified in the contract and Porous Granular Embankment, Subgrade will be used under the pavement and shoulders. Capping aggregate will not be required when

embankment meeting the requirements of Section 207 or granular subbase is placed on top of the porous granular material.

Construction equipment not necessary for the completion of the replacement material will not be allowed on the undercut areas until completion of the recommended thickness of the porous granular embankment subgrade.

Full depth subgrade undercut should occur at limits determined by the Engineer. A transition slope to the full depth of undercut shall be made outside of the undercut limits at a taper of 1 foot (300 mm) longitudinal per 1 inch (25 mm) depth below the proposed subgrade or bottom of the proposed aggregate subgrade when included in the contract.

Method of Measurement. This work will be measured for payment in accordance with Article 207.04. When specified on the contract, the theoretical elevation of the bottom of the aggregate subgrade shall be used to determine the upper limit of Porous Granular Embankment, Subgrade. The volume will be computed by the method of average end areas.

Basis of Payment. This work shall be paid for at the contract unit price per cubic yard (cubic meter) for POROUS GRANULAR EMBANKMENT, SUBGRADE which price shall include the capping aggregate, when required.

The Porous Granular Embankment, Subgrade shall be used as field conditions warrant at the time of construction. No adjustment in unit price will be allowed for an increase or decrease in quantities from the estimated quantities shown on the plans.

SECTION 208 TRENCH BACKFILL, SPECIAL

REV. 01/07

This work shall be performed in accordance with Section 208 of the Standard Specifications with the following alterations.

208.02 Materials. Add the following: The ENGINEER shall approve all sources of supply. The CONTRACTOR shall submit to the ENGINEER a statement giving the sources of aggregate. Only aggregates from these sources shall be used on the job unless approval in writing is obtained from the ENGINEER. Crushed concrete will not be allowed.

Add the following:
Construction Requirements.
Backfilling Method 2 as listed in Article 550.07 will not be allowed.
Backfilling Method 3 will only be allowed with prior approval from the Engineer.

208.03 Method of Measurement. Delete the second paragraph of Article 208.03(b).

208.04 Basis of Payment. Replace the sentence with the following: This work will be paid for at the contract unit price per cubic yard (cubic meter) for TRENCH BACKFILL- SPECIAL

SECTION 211 TOPSOIL FURNISH AND PLACE, 4" — CIVILTECH REV. 01/07

This work shall be performed in accordance with Sections 211 of the Standard Specifications with the following alterations.

211.01 Description. Delete the words "or compost."

211.02 Materials. Add "Only 'pulverized' top soil shall be used." Delete subsection (b).

21.04 Placing Topsoil. Delete paragraph two.

211.05 Finishing delete the words "or compost/topsoil blend" from sentence one.

211.07 Method of Measurement. In subparagraph (b), paragraph two delete the words "and compost furnish and place "

211.08 Basis of Payment. Delete the words "and per square yard (square meter) for COMPOST FURNISH AND PLACE, of the thickness specified.

SECTION 213. EXPLORATION TRENCH, SPECIAL — REV. 06/07

This work shall be performed in accordance with Section 213 of the Standard Specifications with the following alterations.

213.01 Description. Delete the entire paragraph and replace with "This work shall consist of constructing a trench or excavation for the purpose of locating existing underground facilities within the limits of the proposed improvement."

213.02 General. Delete sentence one from paragraph two and replace with the following "The trench or excavation shall be of sufficient depth to locate farm drains or other underground facilities. The trench shall be excavated deep enough to allow proper investigation of the entire excavation but not more than one foot deeper than the proposed pipe or structure". Delete sentence one of paragraph four and replace with the following: "After inspection by the Engineer, the exploration trench shall be backfilled with CA-6 and compacted. Prior to commencing with the work, the Contractor and Engineer shall agree on the excavator bucket size to be used for the work."

213.03 Method of Measurement. Delete the entire paragraph and replace with the following: The work will be measured for payment per foot (meter) of depth, length and width.

213.04 Basis of Payment. Delete paragraph one and two and replace with the following; "This work will be paid for at the contract unit price per cubic foot (cubic meter) for EXPLORATION TRENCH, SPECIAL, which price shall include all labor, equipment and materials to complete the work as specified herein. The cost of compacted backfill will not be measured separately for payment, but shall be included in the pay item for EXPLORATION TRENCH, SPECIAL."

SECTION 423 PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, SPECIAL — CIVILTECH REV. 01/07

This work shall be performed in accordance with Section 423 and 351 of the Standard Specifications with the following alterations.

423.01 Description. Add the following: Driveways shall consist of a minimum of, 6 in. for residential and 8 in. for commercial driveways, Class PV concrete, placed on 2 in. of Aggregate Base Course, Type B.

423.05 Forms. Delete sentence one and replace with the following: Side forms shall be of lumber of not less than 6 in for residential driveways and not less than 8 in for commercial driveways or of steel of equal rigidity.

423.10 Method of Measurement. Add the following: All required excavation and saw cutting shall be included and shall not be paid for separately.

423.11 Basis of Payment. This work will be paid for at the contract unit price per square yard (square meter) for PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, SPECIAL of the thickness specified, which price shall include all required materials (including base course), labor and equipment necessary to complete the work as specified herein.

SECTION 424. PORTLAND CEMENT CONCRETE SIDEWALK, SPECIAL DETECTABLE WARNING — CIVILTECH REV. 12/07

This work shall be performed in accordance with Section 424 and 311 of the Standard Specifications with the following alterations.

424.04 Subgrade Preparation. Sidewalks shall be placed on a minimum of 2 in. of subbase granular material, type B.

424.06 Placing and Finishing. Add the following: At driveway apron locations, the depth of concrete shall be increased to 6 in. for residential drives and 8 in. for commercial drives.

424.07 Expansion Joints. In subsection (b), Change "100 ft (30 m)" to "50 ft (15 m)".

424.09 Dectable Warnings; Add the following.

Materials: Detectable warning shall be a prefabricated, cast-in-place system. The color of the detectable warning surface shall be brick red conforming to Federal Standard 595, color number 30166, or approved equivalent. Approved products are listed below and are subject to change during time of contract.

East Jordan Iron Works, Inc.
301 Spring Street, East Jordan, Michigan 49727
(800) 626-4653
ejiwsales@ejiw.com
http://www.ejiw.com

Neenah Foundry Company
2121 Brooks Avenue, Box 729, Neenah, Wisconsin 54956
(800) 558-5075
http://www.nfco.com

After the installation of the detectable warning surface, finishing will include edging around detectable warning surface. The surface shall be free of any debris, concrete and sealant and shall be cleaned according to the manufacturer's recommendations.

424.12 Method of Measurement. Add the following.
Ramps where more than one detectable warning panel will be used to meet the ADA and ADAAG standards will be measured as constructed in-place.

424.13 Basis of Payment. Replace paragraph one with the following.
This work will be paid for at the contract unit price per square foot for PORTLAND CEMENT CONCRETE SIDEWALK, SPECIAL, which price shall include all required expansion joints, finishing, variable height edge treatment at sidewalk ramps, additional thickness at driveway aprons, and compacted sub base granular material.

Replace paragraph two with the following.
Detectable warnings will be paid for at the contract unit price per square foot for DETECTABLE WARNINGS per the type specified.

Add the following to the beginning of paragraph three; Where existing sidewalk is to be replaced, all removal and excavation will be paid for as SIDEWALK REMOVAL. Where new sidewalk is to be placed, excavation will be paid for as EARTH EXCAVATION.

SECTION 440. REMOVAL OF EXISTING PAVEMENT AND APPURTENANCE

REV. 01/07

This work shall be performed in accordance with Section 440 of the Standard Specifications with the following alterations.

Special attention is drawn to the typical existing sections shown on the plans. These sections indicate the limits of payment for this item. No additional compensation for PAVEMENT REMOVAL shall be allowed without written direction from the Engineer prior to the commencement of any additional work. The Bidder may examine the geotechnical report and boring logs for this project which are on file with the Village.

440.01 Description. Add the following: Sidewalk and pavement removal prior to replacement shall be made to the depth of the new structure. The removal of any gravel driveway is considered incidental. All removed material shall be hauled from the work site the same day as its removal.

440.08 Basis of Payment. Add the following: All required saw cutting shall be included in the unit prices for the various items of work. The contract unit prices for SIDEWALK REMOVAL and DRIVEWAY PAVEMENT REMOVAL shall include removing and disposing of the entire sidewalk or driveway structure including excavation to the depth of the new structure.

HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

CIVILTECH ENGINEERING, INC.

This work shall consist of the removal of the existing bituminous surface and shall be performed in accordance with Section 440 of the Standard Specifications with the following exception:

The typical depth of milling shall be 1.5". At locations determined by the Engineer the depth of the milling may be increased or decreased in order to provide the proper cross slope or to allow for the minimum lift thickness of binder or hot-mix asphalt surface course. The additional milling may require multiple passes with the milling machine on multiple days. This additional milling depth shall be included in the cost of the pay item HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH.

Method of Measurement. Hot-mix asphalt surface removal shall be measured for payment in place and the area computed in square yards. If multiple passes are required to mill to the required depth, only the first pass shall be measured.

Basis of Payment. This work shall be paid for at the contract unit price per square yard for HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH, regardless of the depth of surface removed.

SECTION 442. PAVEMENT PATCHING

REV. 01/07

This work shall be performed in accordance with Section 442 of the Standard Specifications with the following alterations.

442.02 Materials. Add the following: All bituminous materials shall be in accordance with Special Provisions "Asphalt & Bituminous Items" included in Section 1030 of these special provisions.

Replace Note 1 with the following: High early strength (3,500 PSI mimimum at 3 days) mixtures as specified in article 1020 shall be used for all Class A, Class B and Class C patching.

Construction Requirements. Add the following: Form work (keyway) shall be completely removed prior to subsequent pour. Longitudinal and transverse joint locations shall be approved by the Engineer prior to placement of concrete.

When abutting to existing concrete (pavement section and/or curb and gutter), #5 bars shall be used.

442.10 Method of Measurement. Delete, "and saw cut quantity" from line 5 of the 2nd paragraph. Delete paragraph in its enitity.

442.11 Basis of Payment. Add the following to the 2nd paragraph: Costs for all patches shall include all saw cutting, joints, reinforcement bars, tie bars, longitudinal keyways, dowel bars, expansion joints, and shall not be paid for separately. Delete paragraphs 3, 7, 8, 9 and 10.

GRATING FOR CONCRETE FLARED END SECTION EQUIVALENT ROUND-SIZE 15" — CIVILTECH ENGINEERING, INC.

This work shall be in accordance with Section 542.07 (b) of the Standard Specifications. The grates shall be fabricated and installed according to Standard 542311. Shop drawings shall be submitted and approved prior to fabrication.

Basis of Payment. Grating for precast reinforced concrete flared end sections will be paid for at the contract unit price per each for GRATING FOR CONCRETE GLARED END SECTIONS, of the size specified.

STORM SEWERS, WATER MAIN QUALITY PIPE — REV. 01/07

Description. This work shall consist of the installation of watermain quality pipe in areas where the storm sewer line crosses above the watermain. All work shall be performed in accordance with Section 550 of the STANDARD SPECIFICATIONS and Section 40 of the Water and Sewer Specifications.

Materials. All pipe materials shall conform to Section 40-2 of the Water and Sewer Specifications. The materials shall be approved by the Engineer prior to their installation. If watermain quality pipe is required under pavement, or within 2 feet of the back of curb, PVC (polyvinyl chloride) pipe is not permitted. In this situation, only concrete pressure pipe or ductile-iron pipe is allowed. The watermain quality pipe shall be connected to the storm sewer pipe on both ends by use of Flex-seal, Adjustable, Repair, Mission couplings (nonshear) with stainless steel bands or a method approved by the Engineer. The cost of these connections shall be included in the cost of STORM SEWERS, WATER MAIN QUALITY PIPE.

550.10. This work shall be measured and paid for at the contract unit price per foot of the size specified for STORM SEWERS, WATER MAIN QUALITY PIPE which price shall include all labor, equipment, and materials necessary to perform said work.

SECTION 561. WATER MAIN — CIVILTECH REV. 11/07

This work shall be performed in accordance with Section 561 of the Standard Specifications and Section 41 of the Water and Sewer Specifications with the following alterations.

561.01 Description. This work shall also consist of adjusting existing water mains where they are in conflict with new improvements. All adjustment in the line or grade of the existing water main shall be approved by the Engineer.

561.02 Materials. Water mains and fittings shall be Class 52 ductile iron, cement lined, with push-on joints conforming to AWWA Standards C104, C111, C150, C151, and C600.
Polyethylene encasement shall be manufactured in accordance with ASTM D1248 size and strength as specified in AWWA C105.

561.03 General. Add the following:

c) All main, fittings, fire hydrant legs and barrels sections shall be wrapped with polyethylene film. The film shall overlap a minimum of 24 in. at all seams. All

seams shall be secured by black vinyl pipe wrapping tape meeting ASTM specification D-1000.

d) All mechanical joint fittings shall be installed with "cor ten" bolts.
e) A canvas strap shall be used to lift the main after it has been wrapped.
f) Excluding the joints of any valve, bend, cross or tee, the first two joints before and beyond any valve, bend, cross or tee shall be restrained with Field-Lok by U.S. Pipe, Mega Lugs by EBAA Iron, or approved equal.
g) Adjusting Water Main. All materials, labor, and equipment necessary to adjust the water main shall be on hand before shutdown and cutting of the existing main. The Contractor shall take every precaution to hold the interruption of service to a minimum. A minimum clearance of 18 in. shall be maintained between the adjusted main and improvement for which the adjustment was made. A downward adjustment will be required unless 5.5 ft of cover can be maintained for an upward adjustment or as approved by the Engineer. Adequate precautions shall be taken to prevent contaminants from entering the existing main. The inside surface of all new materials (including but not limited to pipe and fittings) used in the adjustment shall be cleaned of all foreign materials and swabbed with a solution of efficient bactericide before assembly. The adjusted section shall then be flushed with potable water. Thrust blocking of Class SI concrete shall be placed where necessary and as directed by the Engineer.

Hydrostatic Tests. Add the following: The Engineer shall be given 24 hours notice prior to the beginning of testing. The testing procedure shall be as outlined in Section 41-2.13 with the following modifications. Before testing, the Engineer shall verify that all fire hydrant auxiliary valves are open. The test pressure shall be 150 psig with a minimum duration of 4 hours. **The Village may exercise the right to continue the test to the maximum 6 hour duration. Test pressure shall not vary by more than ± 5 psi for the duration of the test.** The Resident Engineer or a Village Inspector must be present and witness the duration of the test. **If the water main being tested fails, the line shall be disassembled and reassembled at the point of failure. Repair clamps shall not be allowed on the newly placed water main as a means to correct any leaks. The cost to install any tap connections or "whips" for purposes of hydrostatic testing shall be included in the cost of the water main.**

Disinfection of Water Main. Add the following: The Engineer shall be given 24 hours notice prior to the beginning of disinfection. The Resident Engineer or a Village Inspector must be present during the testing procedure. The testing procedure shall be as outlined in Section 41-2.14 with the following modifications:

42.14 DISINFECTION OF WATER MAINS Delete in entirety and replace with the following: Any of the methods stated in AWWA Standard C651-99 are accepted as a means of disinfection of water mains. Note: AWWA C651-99, Sec. 4.6 Final Connections to Existing Water Mains (Optional), All procedures will be required. Requirements for AWWA C652-99, Section 4.6 are listed below:

Sec. 4.6 Final Connections to Existing Mains
Water mains and appurtenances must be completely installed, flushed, disinfected, and satisfactory bacteriological sample results received prior to permanent connections being made to the active distribution system. Sanitary construction practices must be followed during installation of the final connection, so that there is no contamination of the new or existing water main with foreign material or groundwater.

4.6.1 Connections equal to or less than one pipe length (<18 ft [5.5 m]). new pipe, fittings, and valve(s) required for the connection may be spray-disinfected or swabbed with a

minimum 1-5% solution of chlorine just prior to being installed, if the total length of the connection from the end of a new main to the existing main is equal to or less than 18 ft (5.5 m).

4.6.2 Connections greater than one pipe length (>18 ft [5.5 m]). pipe required for the connection must be set up aboveground, disinfected, and bacteriological samples taken, as described in Sec. 5, of AWWA C651-99 if the total length of the connection from the end of a new main to the existing main is greater than 18 ft (5.5 m). After satisfactory bacteriological sample results have been received for the "predisinfected" pipe, the pipe can be used in connecting the new main to the active distribution system. Between the time the satisfactory bacteriological sample results are received and the time that the connection piping is installed, the ends of the piping must be sealed with plastic wraps, watertight plugs, or caps.

41-2.14B REQUIREMENT OF CHLORINE Delete the entire section and replace with the following: Before being placed into service, all new mains and repaired portions of, or extensions to existing mains shall be chlorinated so that the initial chlorine residual is between 50 and 400 ppm at all points within the main. After 24 hours has passed, the chlorine residual shall be no less than 25 ppm or 50% of the initial residual, whichever is greater.

41-2.14C FORM OF APPLIED CHLORINE Delete subsections (2) and (3).

561.04 Method of Measurement. Delete Section 41-3.

561.05 Basis of Payment. Delete Section 41-4. This work will be paid for at the contract unit price per lineal foot for DUCTILE IRON WATER MAIN, of the diameter specified or ADJUSTING WATER MAIN, of the size specified, which price shall include all pipe; fittings; joint materials and joint restraints; thrust blocks; polyethylene encasement; testing and disinfection, (including fittings, meters, pumps, gauges, laboratory fees); labor; equipment; excavation; and removal of spoil required to complete the work as specified herein. Trench backfill and fittings will be paid for as defined and specified elsewhere in these special provisions.

SECTION 561. WATER MAIN – WATER VALVES

REV. 01/07

This work shall be performed in accordance with the applicable portions of Section 561 of the Standard Specifications and Section 42 of the Water and Sewer Specifications with the following alterations.

42-2.01 MANUFACTURE AND MARKING Add the following: Valves shall be Mueller A-2360 resilient wedge gate valve with stainless steel trim, or Waterous 2500 resilient wedge gate valve with stainless steel trim bolts or approved equal.

42-2.02 TYPE AND MOUNTING Add the following: All accessory bolts, studs and nuts shall be "cor-ten".

42-2.03 END CONNECTIONS Delete subsections (B), (C), (D) and (E).

42-2.09 PAINTING AT FACTORY Delete the entire section and replace with the following: Valve bodies, bonnets and gates shall be epoxy impregnated in conformance with AWWA C550.

561.07 Basis of Payment. Add the following: Valves will be paid for at the contract unit price each for WATER VALVES, of the size specified, which price shall include all labor, materials and equipment required to complete the work as specified herein.

SECTION 562. WATER SERVICE LINE – (CORPORATION STOPS) REV. 12/07

This work shall be performed in accordance with Section 562 of the Standard Specifications and with applicable portions of Section 41 of the Water and Sewer Specifications with the following alterations.

562.02 Materials. Water service line shall be Type K copper manufactured in accordance with ASTM B88 and B251 or approved equal. For 1" service lines corporation stops shall be either Mueller H-15008 or Ford F600 or approved equal. For 1 ½" and 2" service lines corporation stops shall be either, Mueller B-25008, or Ford FB600 or approved equal. Service lines greater than 1" in diameter shall have a stainless steel banded ductile iron saddle (Ford Style FC202 or Smith Blair 317 Service Saddle).

562.03 General. Add the following: Service line shall be placed through the curb stop to the property line. Existing service lines may be a different size or material (e.g. lead or galvanized steel). The Contractor shall provide acceptable couplings or fittings between the new service line and the existing line. Couplings will only be permitted if the service line exceeds 100 feet for a 1" line or 60 feet for a 1½ or 2" line. No couplings shall be permitted under any paved surface, including sidewalks, driveways, driveway aprons, and roadways.

562.04 Method of Measurement. Delete Section 41-3.

562.05 Basis of Payment. Delete Section 41-4. Add the following: Add the word "couplings," after the word "fittings,". Corporation stops will be paid for at the contract unit price each for CORPORATION STOPS, of the size specified, which price shall include all labor, equipment, excavation, materials, backfilling, compacting, and removal of spoil required to complete the work as specified herein.

Water service boxes will be paid for separately.

SECTION 564. FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX
FIRE HYDRANTS TO BE REMOVED
FIRE HYDRANTS TO BE REMOVED, SPECIAL

CIVILTECH REV. 11/07

564.01 Description. Add the following. This work also includes the installation new fire hydrants and auxiliary valves.

564.03 General. Delete sentence 1. Replace with: This work shall be performed in accordance with Village of Lombard Standards and Section 564 of the Standard Specifications and with applicable portions of Section 45 of the Water and Sewer Specifications.

Add the following:

Hydrant Extensions. When existing fire hydrants are to be raised, the work shall be accomplished through the use of extension kits manufactured by Waterous. When new water main cannot be placed at plan elevation due to conflicts with other utilities, the Engineer may authorize hydrant extensions. If, for any other reason, the Contractor places new water main lower than plan elevation, without the Engineer's approval, fire hydrant extensions shall be installed at the Contractor's expense.

Removal. This work shall consist of the removal of existing fire hydrants and auxiliary valves, thrust blocks, lead-in mains, and fittings. The lead-in main shall be removed from the fitting on the existing main (elbow, tee or cross) which shall be capped using a mechanical plug.

Abandonment (Removal, Special). This work shall consist of removing hydrants to a minimum depth of two (2) ft from proposed finished grade. The remaining riser shall be filled with concrete to the satisfaction of the Engineer.

45-2.01 MATERIALS FOR HYDRANTS AND APPURTENANCES. Add the following: New fire hydrants shall be Waterous Pacer (Model number WB-67-250). The auxiliary valve shall be attached by the manufacturer at the factory. All trim bolts shall be stainless steel. Chains and collars must be removed from hydrant nozzles prior to Village acceptance. Drain field material shall conform to CA-7 gradation. **Hydrants must come from a northeast Illinois authorized American Flow Control Distributor** (Ziebell Water Service, Mid-American Water, Water Products Company and National Waterworks).

45-2.02 HYDRANT DETAILS Add the following to paragraph 2: When new water main cannot be placed at plan elevation due to conflicts with other utilities, hydrant extensions may be authorized by the Engineer. If, for any other reason, the Contractor places new water main lower than plan elevation, without the Engineer's approval, fire hydrant extensions shall be installed at the Contractor's expense.

45-2.04 PAINTING Replace paragraph 2 with the following: External above-grade surfaces of fire hydrants shall be coated by the manufacturer with one coat of alkyd based, lead and chrome-free buff primer and two coats of alkyd based, chain-stopped gloss enamel conforming to Waterous M4182, Federal Safety Yellow Hydrant Enamel. Hydrants having been coated with any other coating or color shall not be accepted.

45-3 CONSTRUCTION DETAILS The Contractor shall use a canvas strap when transporting or installing a fire hydrant. The Contractor will take all necessary precautions so as to not have trench backfill fall directly upon on the fire hydrant. The Contractor should use a 32-gallon plastic garbage can to protect the fire hydrant during the backfilling procedure. An equivalent method as approved by Engineer will also be acceptable. The Contractor will be responsible to repaint any fire hydrant that is chipped, scraped or otherwise cosmetically damaged during installation. The process and painting subcontractor will be subject to the review and approval of the Village, **prior to repainting**.

564.04 Basis of Payment. Delete the first sentence. Add the following: New fire hydrants will be paid for at the contract unit price each for FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX, which price shall include all excavation; furnishing all appurtenances, including thrust blocks and extensions authorized by the Engineer; backfilling, including coarse aggregate; and disposal of excavated materials. Connections to new water mains shall be included in the price of the water main. Connections to existing water mains will be paid for as defined and specified elsewhere in these special provisions.

When payment is authorized by the Engineer, the raising of fire hydrants will be paid for at the contract unit price per foot (meter) for FIRE HYDRANT EXTENSION, which price shall include all labor, material, backfill, and equipment necessary to complete the work.

The removal of fire hydrants will be paid for at the contract unit price each for FIRE HYDRANTS TO BE REMOVED, which price shall include all labor, material, disposal and equipment necessary to complete the work. Trench backfill shall be paid for separately.

The abandonment of fire hydrants will be paid for at the contract unit price each for FIRE HYDRANTS TO BE REMOVED, SPECIAL which price shall include all labor, material, disposal and equipment necessary to complete the work. Trench backfill shall be paid for separately.

SECTION 565. MOVING DOMESTIC METER VAULTS AND WATER SERVICE BOXES REV. 11/07

This work shall be performed in accordance with Section 565 of the Standard Specifications and with applicable portions of Section 44 of the Water and Sewer Specifications with the following alterations.

565.01 Description Add the following: Connection to the existing private service line shall be accomplished by utilizing a 1 to 2 ft piece of Type K copper (matching the size of the existing service) from the curb stop. Mueller H-15403 series compression fittings shall be used as necessary. Curb stops shall be placed at locations determined by the Engineer. They shall rest upon a concrete brick or block. Within 2 ft of any existing or proposed paved surfaces, the excavation shall be backfilled with CA-6 and properly compacted.

Removal. Removal shall consist of service box and curb stop.

Materials. Domestic water service boxes shall be Mueller H-10302 or approved equal including the pentagon nut. Curb stops shall be Mueller B-25155, Ford B22-444M or approved equal.

565.04 Basis of Payment. Add the following:
New service boxes will be paid for at the contract unit price each for DOMESTIC WATER SERVICE BOXES, which price shall include all labor, equipment, excavation, materials, backfilling, compacting, and removal of spoil required to complete the work as specified herein.

Removals will be paid for at the contract unit price each for DOMESTIC WATER SERVICE BOXES TO BE REMOVED, which price shall include all labor, equipment, excavation, backfilling, compacting, and removal of appurtenances and spoil required to complete the work as specified herein.

SECTION 601. PIPE DRAINS, UNDERDRAINS AND FRENCH DRAINS REV. 01/07

This work shall be performed in accordance with Section 601 of the Standard Specifications with the following alterations.

601.02 Materials. Pipe underdrains shall be per subsection (m).

601.04 Pipe Underdrain Installation. Delete the entire article and replace with: "This work shall include a 12 in. deep by 24 in. wide trench lined with geotechnical fabric, a 4 in. perforated PVC underdrain to be connected to existing or new catch basins or inlets and be backfilled using CA-7 gradation stone."

601.07 Method of Measurement. Delete paragraphs 3 and 4.

601.08 Basis of Payment. Delete the entire article and replace with: "This work will be measured and paid for at the contract unit price per foot (meter) for PIPE UNDERDRAINS, FABRIC LINED

TRENCH of the size specified, which price shall include all labor, material and equipment necessary to complete the work including connections to drainage structures.

SECTION 602. CATCH BASIN, MANHOLE, INLET, DRAINAGE STRUCTURES AND VALVE VAULT CONSTRUCTION, ADJUSTMENT AND RECONSTRUCTION

REV. 01/07

This work shall be performed in accordance with Section 602 of the Standard Specifications with the following alterations.

602.02 Materials. Add the following: (m) Resilient Pipe Connectors shall conform to ASTM C-923.

Delete Note 2 and replace with: "Note 2: HDPE plastic adjusting rings may only used to adjust frames and grates of drainage and utility in landscaped areas. A maximum adjusting distance of 12 in (305 mm) with a maximum number of 3 rings is permitted. They shall be installed and sealed underneath the frames according to the manufacture's specification

Delete Note 3 and replace with "Note 3: Recycled rubber adjusting rings may be used to adjust frames and grates of drainage and utility. A maximum adjusting distance of 12 in (305 mm) with a maximum number of 3 rings is permitted. They shall be installed and sealed underneath the frames according to the manufacture's specification

602.05 Delete the entire section.

602.06 Delete the entire section.

602.07 Precast Reinforced Concrete Sections. Delete the second sentence and replace with "The units shall be sealed using mastic joint sealer." Add the following: All precast manhole bottoms shall have the inverts (benches) formed in them either during fabrication or after installation, utilizing Class SI concrete. Add the following: All new structures shall be mortared on the inside and outside at all structure joints between barrel, cone, and flat top sections.

602.08 Steps. Delete the first sentence and replace with "Steps, when required, shall be plastic coated reinforcing bar of the dimensions indicated on the VILLAGE's standard detail."

602.11 Furnishing and Placing Casting.
Add the following to subsection (a): All new manhole frames and lids shall be Neenah R-1713 or East Jordan 1050Z1. All lids will be self sealing. The word "SANITARY", "STORM" or "WATER" cast on all lids as appropriate. Storm sewer manhole lids shall have factory installed o-ring gaskets.
Modify the following in subsection (c): In sentence 3 of paragraph 2, delete "or a HMA surface or binder course material". Modify sentence 4 of paragraph 2 to read: "Class SI concrete shall be cured for a period of 72 hours". Delete sentence 5 of paragraph 2 in its entirety.

Add subsection (d) as follows: When structures do not fall within pavement or are not placed per (b) or (c) above, an external chimney seal which fully encompasses the rings and castings shall be installed. When directed by the Engineer the Contractor shall install a concrete collar behind any curb box that is found to be susceptible to inflow and infiltration.

602.12 Inlet and Outlet Pipes. Add the following: All manholes designated for sanitary sewers and valve vaults shall have resilient pipe connectors (rubber boots) for each pipe entering or leaving the manhole. All new structures without boots shall have inlet and outlet pipes sealed with mortar to eliminate infiltration.

602.15 Basis of Payment. Replace the second paragraph with the following: When adjustment or reconstruction is specified and existing frames, grates and lids are to be used, this work will be paid for at the contract unit price each for DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED or DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED which price shall include resetting the frame with grate or lid, and excavation and backfill, except excavation in rock.

SECTION 604. FRAMES, GRATES AND MEDIAN INLETS

REV. 01/07

This work shall be performed in accordance with Section 604 of the Standard Specifications with the following alterations.

604.04 General. Add the following: The words "DUMP NO WASTE!" and "DRAINS TO RIVERS" or "DRAINS TO WATWERWAYS", as approved by the Engineer, shall be cast into the top of all curb boxes.

SECTION 605. REMOVING OR FILLING EXISTING MANHOLES, CATCH BASINS AND INLETS

REV. 01/07

This work shall be performed in accordance with Section 605 of the Standard Specifications with the following alterations.

605.04 Filling Existing Manholes, Catch Basins, and Inlets. Add the words "Valve Vaults" after the word "Basins" in the title. Add the following: The operating nuts of valves which are to remain in place shall be broken off from the valve body.

605.06 Basis of Payment. Replace paragraph 3 with the following: The work of filling existing manholes, catch basins, inlets and valve vaults will be paid for at the contract unit price per each for FILLING MANHOLES, FILLING CATCH BASINS, FILLING INLETS or FILLING VALVE VAULTS.

VALVE VAULTS TO BE REMOVED
VALVE BOXES TO BE REMOVED

CIVILTECH ENGINEERING, INC.

This work shall be performed in accordance with Section 605 of the Standard Specifications with the following alterations:

Basis of Payment. The work of removing existing valve vaults and valve boxes will be paid for at the contract unit price per each for VALVE VAULTS TO BE REMOVED or VALVE BOXES TO BE REMOVED.

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL) CIVILTECH ENGINEERING, INC.

This work shall be performed in accordance with the applicable portions of Section 606 of the Standard Specifications and the detail included in the plans. This pay item shall be used at locations where the curb and gutter will be constructed adjacent to existing pavement to remain and as directed by the Engineer.

Method of Measurement and Basis of Payment. This work will be paid for at the contract unit price per lineal foot for COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL), which price shall include all labor, materials, and equipment required to complete the work as specified herein.

SECTION 606. CONCRETE GUTTER, CURB, MEDIAN AND PAVED DITCH REV. 01/07

This work shall be performed in accordance with Section 606 of the Standard Specifications with the following alterations.

606.09 Concrete Medians. Add the following to paragraph 3: The cost of aggregate fill shall be considered incidental to the cost of the median.
Add the following paragraph to the end of the section: When indicated on the plans, the concrete median surface shall be stamped and colored as follows. The concrete shall be colored throughout by adding a dying agent approved by the Engineer directly into the mixer. The concrete surface shall be covered with a thin (3 mil) plastic film then imprinted with a basket-weave type pattern using a roller provided by the Engineer. At the pre-construction meeting the Contractor shall submit, in writing, for the approval of the ENGINEER the supplier of the coloring, and the construction methodology for completing the coloring and imprinting of the concrete.

606.15 Basis of Payment. Add the following to paragraph 2: This work will be measured and paid for at the contract unit price per square foot (square meter) for CONCRETE MEDIAN SURFACE (SPECIAL), of the thickness specified, which price shall include all labor, materials, including aggregate fill, and equipment necessary to complete the work.

SECTION 700. WORK ZONE TRAFFIC CONTROL, SIGNING, AND PAVEMENT MARKING

SECTION 701. WORK ZONE TRAFFIC CONTROL

REV. 11/07

This work shall be performed in accordance with Sections 701 and 702 of the Standard Specifications, and any Highway Standards contained herein with the following clarifications.

Special attention is called to Articles 107.09 and 107.14 and the following Highway Standards:

701501-04	Urban Lane Closure, 2L, 2W Undivided
701701-05	Urban Lane Closure, Multilane Intersection
701801-03	Lane Closure, Multilane, 1W or 2W Crosswalk or Sidewalk Closure
701901	Traffic Control Devices

701.04 General. Add the following:
The Contractor shall maintain at least one lane of traffic for local and emergency use at all times. Entrances to driveways and side roads shall also be maintained as indicated in the special provision for AGGREGATE FOR TEMPORARY ACCESS. All signs except those referring to daily lane closures shall be post mounted in accordance with Standard 702001.

The Contractor shall make frequent inspections of the work zone. Any traffic control items that are worn, damaged or are inoperative to the extent that they no longer meet these specifications or that have been displaced shall be repaired or removed and replaced. Traffic control items shall be properly installed and operational 24 hours a day, 7 days a week. The Contractor shall respond to requests from the Village to correct traffic control deficiencies that constitute an immediate safety hazard within 4 hours of the request and within 24 hours for all other traffic control deficiencies. If this specification is not meet within 4 hours of notice, the Village will take whatever action it may deem necessary to bring the traffic control within specification. If the Village corrects the deficiency, the Village will deduct $500 plus all costs (actual and incurred) from amounts due or which may become due the Contractor. This corrective action will in no way relieve the Contractor of its contractual requirements or responsibilities.

If the Contractor fails to restore the required traffic control and protection within the 4 hour or the 24 hour time limit, the Engineer will impose a daily monetary deduction for each 24 period (or portion thereof) the deficiency exists. This time period will begin with the time of notification to the Contractor and end with the Engineer's acceptance of the corrections. For this project, the daily deduction will be *__ per day.

* The cost of the daily deduction will be calculated by dividing three percent (3%) of the awarded contract price by the number of calendar days anticipated for this project. The number of days anticipated for this project is 85. This procedure is to be followed regardless of whether the contract is based upon working days, contains a completion date, or has an incentive/disincentive clause.

701.16 Lights. Add the following:
All traffic control devices that require illumination shall be completely operational at all times. Non-working illuminating fixtures shall be considered deficient and shall be repaired and/or replaced as indicated herein.

701.19 Method of Measurement. Delete entire section and replace with: Traffic Control and Protection will be measured on a lump sum basis.

701.20 Basis of Payment. Delete sections (a), (b), (c), (d), (e), (f), and (g) and add the following: No compensation for any delays that may be caused to the Contractor in complying with this special provision shall be made. This work will be paid for at the contract lump sum price for TRAFFIC CONTROL AND PROTECTION, less amounts deducted for non-compliance with this special provision.

SECTION 720. SIGN PANELS AND APPURTENANCES

REV: 01/07

This work shall be performed in accordance with Section 720 of the Standard Specifications, PB 3930 3M(TM) High Intensity Prismatic Reflective Sheeting and PB 4000 3M(TM) Diamond Grade(TM) DG3 Reflective Sheeting Specifications with the following alterations.

720.02 Materials. Delete Table 1091-2 and replace with the following:

Type AP HIP (HIP)

Observation Angle	0.2°		0.5°	
Entrance Angle	-4	+30	-4	+30
Color				
Silver / White	560.0	280.0	200.0	100.0
Yellow	420.0	210.0	150.0	75.0
Orange	210.0	105.0	75.0	37.0
Red	84.0	42.0	30.0	15.0
Green	56.0	28.0	20.0	10.0
Blue	28.0	14.0	10.0	5.0
Brown	17.0	8.4	6.0	3.0

Type ZZ (DG3)

Observation Angle	0.2°		0.5°		1.0°	
Entrance Angle	-4	+30	-4	+30	-4	+30
Color						
White	570.0	215.0	400.0	150.0	120.0	45.0
Yellow	425.0	162.0	300.0	112.0	90.0	34.0
Red	114.0	43.0	80.0	30.0	24.0	9.0
Green	57.0	22.0	40.0	15.0	12.0	4.5
Blue	26.0	11.0	18.0	6.8	5.4	2.0
Brown	17.0	6.5	12.0	4.5	3.6	1.4
Fluorescent Yellow	340.0	130.0	240.0	90.0	72.0	27.0
Fluorescent Yellow-Green	460.0	170.0	320.0	120.0	96.0	36.0
Fluorescent Orange	200.0	75.0	140.0	52.0	42.0	16.0

Type ZZ sheeting/Proposed ASTM Type 11 shall meet or exceed the minimum requirements of Type AA and AZ sheeting in all other aspects. Sheeting shall be "Scotchlite" as manufactured by 3M Corporation.

720.03 General. Add the following: All signs shall be fabricated with faces of Type ZZ sheeting. In the fifth paragraph replace "initials IDOT." with "words Village of Lombard."

SECTION 780. PAVEMENT STRIPING

REV. 12/07

This work shall be performed in accordance with Section 780 of the Standard Specifications with the following alterations.

780.07 Preformed Plastic. Delete this entire section and replace with the following: All pavement markings shall be Stamark High Performance Tape as manufactured by the 3M Company. Series A380-ES shall be used for letters, symbols, crosswalks and stop bars. Series A380WR-ES shall be used for white long lines, Series A381WR-ES shall be used for yellow long lines, and Illinois Type B (Series B380WR-ES) shall be used with wet reflective properties.

The publication "Pavement Surface Preparation and Application Techniques for 3M Stamark Tapes – Information Folder 5.7 and Information Folder A380WR-ES" shall be adhered to. The contractor may request a copy of the publication directly from 3M Company by using the fax-on-demand service. Call 1-800-553-1380 and request document number 5.7. Only contractors and their technicians and installers that have completed the 3M professional pavement marking training certification will be permitted to install 3M Stamark preformed plastic pavement marking tape. The list of current trained installers is available by contacting Kari Jerich Brunn at 1-800-949-2196.

Inlaid preformed plastic pavement markings:
The paving of asphalt surface course will not be allowed to proceed until the contractor notifies the VILLAGE in writing that the required material is in hand and that the installer has completed the application training conducted by 3M Company.

The installer shall have the required pavement marking equipment on site. This equipment shall be maintain and in working order.

Pavement markings shall be inlaid (embedded in the pavement surface) in newly paved surfaces by a compaction roller during the paving operation while the asphalt is at 135 +/- 10 degrees Fahrenheit for stop bars and crosswalks and minimum 150 degrees Fahrenheit for lane lines. Compaction shall be accomplished with at least a 5-ton roller with no turning allowed over the markings and minimal water spray and no vibration shall be used on tape. An approved 3M-tamper cart with 50 pounds of weight shall be used to go over stop bars and crosswalk markings prior to the compaction roller going over them.

Series A380-ES shall be used for letters, symbols, crosswalks and stop bars. Series A380WR-ES shall be used for white long lines, Series A381WR-ES shall be used for yellow long lines, and Illinois Type B (Series B380WR-ES) shall be used with wet reflective properties.

If the installer can not inlay the pavement marking tape at the required temperatures, then the installers shall temporary mark the road and the tape shall be installed in a 100 +/- 10 mil groove. Installers shall follow tape manufacturer's recommendations on grooving tape.

No grinding of asphalt is permitted for a minimum of 10 days after laying down final mat. The asphalt shall be tested at the time of grooving to make sure the cutting has integrity. When the groove is touched the edges shall not fall apart.

Overlaid preformed plastic pavement markings:
All new concrete and existing concrete or asphalt surfaces shall be grounded, clean blown, and swept before application of A380WR-ES or A381WR-ES or B380WR-ES preformed pavement-marking tape.

Series A380-ES shall be used for letters, symbols, crosswalks and stop bars. Series A380WR-ES shall be used for white long lines, Series A381WR-ES shall be used for yellow long lines, and Illinois Type B (Series B380WR-ES) shall be used with wet reflective properties.

3M Company contact cement P-50 shall be applied on asphalt if applying A380WR-ES (white) or A381WR-ES (yellow) or B380WR-ES preformed plastic pavement marking material before May 15 or after September 15. Between these dates no P-50 contact cement is necessary.

The pavement shall be dry for a minimum of 24 hours prior to tape installation. All existing markings shall be removed by grinding only before applying A380WR-ES or A381WR-ES or B380WR-ES.

On concrete surfaces, the concrete curing compound shall be removed. The grooving equipment shall be equipped with a free-floating cutting or grinding head to provide a consistent groove depth over irregular pavement surfaces. The grinding or cutting head shall be equipped with diamond-tipped saw blades, steel star cutters and/or wide carbide-tipped star cutters. A grinder head configuration shall be used on bituminous asphalt surfaces to achieve a rough surface texture in the bottom of the groove. Diamond saw blades shall be used on the cutting head when a smooth surface in the bottom of the groove is specified by the Engineer or specifications.

Pavement Grooving Methods
1. Wet Saw Blade Operation. When water is required or used to cool the saw blades, such as during a continuous edge line grooving operation, the groove shall be flushed with high pressure water immediately following the cut to avoid build up and hardening of slurry in the groove. The pavement surface shall be allowed to dry for 24 hours prior to the application of the pavement markings following a wet saw blade operation.
2. Dry Saw Blade Operation: If the grooving is done with dry saw blades, the groove shall be flushed with high-pressure air to remove debris and dust generated during the cutting operation.

Pavement Grooving
Grooves shall be cut into the pavement prior to the application of the pavement marking. The grooves shall be cut such that the width is 1 inch (2.5 cm) wider than that of the line to be placed. Grooves for letters and symbols shall be cut in a shape so that the entire marking will fit. The depth of the grooves shall be in accordance with the manufacturer's recommendation for the approved A380WR-ES or A381WR-ES or B380WR-ES marking system to be applied. The groove depth and the specified application procedure for the markings shall assure that the surfaces of the applied markings are at least flush or slightly below the adjacent driving surface, as recommended by the 3M Company. Measurement for uniform groove depths should be performed according to the 3M Company recommendations. The groove depth should be checked frequently as a new alignment is cut in order to make adjustments early in the process. On a new groove cutting application, check groove depths at 10 feet intervals for the first 50 feet. The average of these five depths should equal the appropriate depth recommended by the 3M Company. If the average does not equal the value in the 3M Company Table, adjustments to the cutting equipment should be done and the next 50 feet should be checked using a similar method. This process should continue until the average calculated groove depth equals the 3M Company recommended depth.

The position of the edge of the grooves shall be a minimum of 2 in. (5 cm) from the edge of concrete joints or asphalt paving seams along edge or centerlines. Contractor shall use a special tamper cart for grooving, which is available through the Century Tool Company at 763-428-2168.

On new bituminous concrete surfaces, the Engineer shall determine if the new asphalt has achieved the necessary strength and hardness to support grooving prior to the start of a grooving operation. In general, new asphalt should not be grooved within ten days of the placement of the final course of pavement. Some asphalt mixes may require thirty or more days to achieve adequate hardness to support a grooving operation. On existing bituminous concrete surfaces some existing asphalt pavements may not be strong enough to support a grooving operation. For all existing asphalt pavements, the Engineer shall determine if the existing asphalt has the necessary strength and hardness to support grooving prior to the start of a grooving operation.

Cleaning
When water has been used to cool the saw blades during the grooving operation, the Contractor shall allow 24 hours for the pavement to dry prior to the application of the markings. Immediately prior to the application of the pavement markings the groove shall be cleaned with high-pressure air blast. The pavement shall be cleaned by a method approved by the Engineer to remove all dirt, grease, glaze or any other material that would reduce the adhesion of the markings with minimum or no damage to the pavement surface. New PCC pavements shall be air-blast cleaned to remove all latents.

Widths, lengths, and shapes of the cleaned surface shall be of sufficient size to include the full area of the specified pavement marking to be placed.

The cleaning operation shall be a continuous moving operation process with minimum interruption to traffic.

780.12 Basis of Payment. Add the following sentence: "All pavement cleaning and primer will not be measured but shall be considered incidental to the cost of the various types of PREFORMED PLASTIC PAVEMENT MARKING.

For concrete pavement, grooving of the pavement will be measured for payment in place, in linear feet of ground pavement.

SECTION 806. GROUND ROD

Effective: January 1, 2002

Description. This item shall consist of furnishing, installing and connecting ground rods for the grounding of service neutral conductors and for supplementing the equipment grounding system via connection at poles or other equipment throughout the system. All materials and work shall be in accordance with Article 250 of the NEC.

Materials. Materials shall be according to the following Articles of Section 1000 - Materials

Item	Article/Section
(a) Ground Rod	1087.01(b)
(b) Copper Ground Wire	1087.01(a)

(c) Access Well..... 1087.01(c)

CONSTRUCTION REQUIREMENTS

General. All connections to ground rods, structural steel or fencing shall be made with exothermic welds. Where such connections are made to insulated conductors, the connection shall be wrapped with at least 4 layers of electrical tape extended 152.4 mm (six inches) onto the conductor insulation.

Ground rods shall be driven so that the tops of the rod are 609.6 mm (24 inches) below finished grade. Where indicated, ground wells shall be included to permit access to the rod connections.

Where indicated, ground rods shall be installed through concrete foundations.

Where ground conditions, such as rock, preclude the installation of the ground rod, the ground rod may be deleted with the approval of the Engineer.

Where a ground field of "made" electrodes is provided, such as at control cabinets, the exact locations of the rods shall be documented by dimensioned drawings as part of the Record Drawings.

Ground rod connection shall be made by exothermic welds. Ground wire for connection to foundation steel or as otherwise indicated shall be stranded uncoated bare copper in accordance the applicable requirements of ASTM Designation B-3 and ASTM Designation B-8 and shall be included in this item. Unless otherwise indicated, the wire shall not be less than No. 2 AWG.

Where connections are made to epoxy coated reinforcing steel, the epoxy coating shall be sufficiently removed to facilitate the exothermic weld.

Basis Of Payment. This item will not be paid for separately but shall be included in the pay item RELOCATED EXISTING LIGHTING UNIT, which shall include all material, labor, equipment and work described herein. If additional rods are needed, their installation and testing will be paid for according to Article 109.04.

SECTION 816. UNIT DUCT

REV. 01/07

This work shall be performed in accordance with Section 816 of the Standard Specifications with the following alterations.

816.02 Materials. Add the following to Note 1.; The phase conductors shall be in accordance with standard IDOT practices for wiring multiconductor circuits in single unit duct runs per Article 1066.02 (a) paragraph 3. Add the following; Note 2. Wire identification markers (tags) acceptable to the Engineer shall be provided. All conductors in the unit duct runs shall have individually color-coded insulation throughout the entire length of the conductor. The color identification for the ground wire shall be green and the neutral wire shall be white.

SECTION 819. TRENCH AND BACKFILL FOR ELECTRICAL WORK

Description. This work shall consist of constructing and backfilling a trench for the accommodation of unit duct in accordance with Section 819 of the Standard Specifications except as modified herein.

Trench and backfill shall only be provided five (5) feet each side of light poles. Directional Bore shall be the method used to install the unit duct 5 feet from the relocated light pole to the existing handhole.

Basis of Payment. This work will be paid for at the contract unit price per foot as TRENCH AND BACKFILL FOR ELECTRICAL WORK, which price shall be payment in full for furnishing all labor, material and equipment as herein specified. Trench and backfill shall not include the cost for topsoil and sodding restoration. All topsoil and sodding shall be paid for separately.

DIRECTIONAL BORE

Description. This work shall consist of the installation only of unit duct using the directional boring method. The unit duct shall be installed at a minimum depth of 30 inches as indicated in the plans unless otherwise indicated by the Engineer.

Method of Measurement. Directional boring shall be measured for payment in feet. Measurements will be made in straight lines between changes in direction and to the center of light pole, less any length of conduit, as detailed in the contract plans.

Conduit shall not be included in the directional bore but shall be included in the cost for Conduit Pushed or Conduit in Trench, of the size specified in the plans.
Where separate unit ducts are installed parallel to one another, a common bore, only one (1) boring setup, will be measured for payment along the centerline of the parallel portion.

Basis of Payment. This item shall be paid for at the contract unit price per foot for DIRECTIONAL BORE. This item shall include all labor and equipment necessary to perform the work in accordance with the Standard Specifications, Village Ordinance, the plan documents and as herein specified. Locating utilities and other underground facilities shall not be paid for separately, but shall be included in the contract unit price of DIRECTIONAL BORE.

RELOCATE EXISTING LIGHTING UNIT

This work shall consist of removing an existing lighting unit, consisting of but not limited to the pole and luminaire and reinstalling the lighting unit in the location as indicated in the plans or as designated by the Engineer in accordance to Section 844 of the Standard Specifications.

Each lighting unit to be relocated under this item shall be checked during the preconstruction inspection for complete circuit identification. Any damage to the lighting unit or pole sustained during removal operations shall be repaired, or replaced in kind, to the satisfaction of the Engineer at the Contractor's own expense. The electric cables shall be reconnected to the power supply cables so that the reinstalled lighting unit becomes operational the same evening of the relocation without interruption.

Basis of Payment. This item shall be paid for at the contract unit price per each for RELOCATE EXISTING LIGHTING UNIT, which shall be payment in full for all labor and equipment including a ground rod necessary to perform the work in accordance with the Standard Specifications, Village Ordinance, the plan document and as specified herein.

AGGREGATE SUBGRADE, 12"
Effective: May 1, 1990
Revised: January 1, 2007

This work shall be done in accordance with the applicable portions of Section 207. The material shall conform to Article 1004.04 except as follows:

1. Crushed Stone, Crushed Blast Furnace Slag, and Crushed Concrete will be permitted. Steel slag and other expansive materials as determined through testing by the Department will not be permitted.

Sieve Size	Percent Passing
6 in. (150 mm)	97 ± 3
4 in. (100 mm)	90 ± 10
2 in. (50 mm)	45 ± 25
No. 200 (75 µm)	5 ± 5

2. Gravel, Crushed Gravel, and Pit Run Gravel

Sieve Size	Percent Passing
6 in. (150 mm)	97 ± 3
4 in. (100 mm)	90 ± 10
2 in. (50 mm)	55 ± 25
No. 4 (4.75 mm)	30 ± 20
No. 200 (75 µm)	5 ± 5

3. Crushed Concrete with Bituminous Materials**

Sieve Size	Percent Passing
6 in. (150 mm)	97 ± 3
4 in. (100 mm)	90 ± 10
2 in. (50 mm)	45 ± 25
No. 4 (4.75 mm)	20 ± 20
No. 200 (75 µm)	5 ± 5

**The Bituminous material shall be separated and mechanically blended with the crushed concrete so that the bituminous material does not exceed 40% of the final products. The top size of the bituminous material in the final product shall be less than 4 inches (100 mm) and shall not contain more than 10.0% steel slag RAP or any material that is considered expansive by the Department.

The Aggregate subgrade shall be placed in two lifts consisting of a 9 inch (225 mm) and variable nominal thickness lower lift and a 3 inch (75 mm) nominal thickness top lift of capping aggregate having a gradation of CA 6. The CA 6 may be blended as follows. The bituminous materials shall be separated

and mechanically blended with interlocking feeders with crushed concrete or natural aggregate, in a manner that the bituminous material does not exceed 40% of the final product. This process shall be approved by the engineer prior to start of production. The top side of the bituminous material in the final products shall be less than 1 ½ inches (37.5 mm) and shall not contain any material considered expansive by the department. Reclaimed Asphalt Pavement (RAP) (having a maximum of 10% steel slag RAP) meeting the requirements of Article 1004.07 and having 100% passing the 3 inch (75 mm) sieve and well graded down through fines may also be used as capping aggregate. IDOT testing of the RAP material will be used in determining the percent of steel slag or Expansive Material. When the contract specifies that an aggregate subbase is to be placed on the Aggregate Subgrade, the 3 inches (75 mm) of capping aggregate will be eliminated. A vibratory roller meeting the requirements of Article 1101.01(g) shall be used to roll each lift of material to obtain the desired keying or interlock and necessary compaction. The Engineer will verify that adequate keying has been obtained.

When a recommended remedial treatment for unstable subgrades is included in the contract, the lower lift of Aggregate Subgrade may be placed simultaneously with the material for Porous Granular Embankment, Subgrade when the total thickness to be placed is 2 feet (600 mm) or less.

Method of Measurement.

Contract Quantities. Contract quantities shall be in accordance with Article 202.07.

Measured Quantities. Aggregate subgrade will be measured in place and the area computed in square yards (square meters).

Basis of Payment. This work will be paid for at the contract unit price per square yard (square meter) for AGGREGATE SUBGRADE, 12" (AGGREGATE SUBGRADE, 300 mm).

BITUMINOUS DRIVEWAY PAVEMENT

CIVILTECH REV. 09/07

Description. This work shall consist of the installation of a bituminous driveway with a compacted stone base performed in accordance with Section 351 and 406 of the Standard Specifications.

Construction Requirements. Residential drives shall consist of a minimum 1 ¾" of HMA Surface Course and 1 ¼" of HMA Binder Course placed on a minimum 6 in. of compacted Aggregate Base Course, Type B. Commercial drives consist of a minimum 1 ¾" of HMA Surface Course and 2 ¼" of HMA Binder Course placed on a minimum 6 in. of compacted Aggregate Base Course, Type B. All required excavation and saw cutting shall be included and shall not be paid for separately. The Contractor shall machine-saw a perpendicular joint between that portion of the driveway to be removed and that which is to remain in place. If the Contractor removes or damages the existing driveway outside the limits designated by the Engineer for removal and replacement, he will be required to remove and replace that portion at his own expense to the satisfaction of the Engineer.

Basis of Payment. This work will be paid for at the contract unit price per square yard for BITUMINOUS DRIVEWAY PAVEMENT of the thickness specified which shall include all required materials (including base course), labor, and equipment necessary to complete the work as specified herein.

CONNECTION TO EXISTING WATER MAINS (NON PRESSURE) REV. 01/07

Description. This work shall consist of the connection of new water main and fire hydrant leads to existing water main. It shall be performed in accordance with applicable portions of Section 41 of the Water and Sewer Specifications with the following clarifications.

Materials. Water main and fittings shall conform to the special provisions for Ductile Iron Water Main and Water Main Fittings. The work includes a material allowance of 15 linear feet of ductile iron pipe (of the necessary diameter) and 500 pounds of fittings. Trench backfill shall meet the requirements for CA-6 listed in Article 1004.01.

Construction Requirements. New water main shall be connected to existing water main after the new main has passed hydrostatic testing and disinfection. Connections shall be accomplished by the use of mechanical joint fittings and lengths of pipe to make the most direct vertical and horizontal adjustments necessary to complete the connection. This may include cut-ins to the existing main or connections to existing valves or fittings. This work will require water to be shut off, which shall be coordinated with the Village's maintenance personnel. The new main shall be disinfected in accordance with Article 561.03(h) of the Water Main special provision.

Basis of Payment. This work will be measured and paid for at the contract unit price per each for CONNECTION TO EXISTING WATER MAINS (NON PRESSURE) which price shall include all labor, equipment, ductile iron pipe water main (up to 15 linear feet), water main fittings (up to 500 pounds), polyethylene wrapping, disinfection, testing, backfill and thrust blocking required to make the connection. If the quantity allowance for ductile iron water main and/or water main fittings are exceeded, quantities in excess of the allowance will be paid for under the items for DUCTILE IRON WATER MAIN and WATER MAIN FITTINGS.

DUST CONTROL WATERING REV. 01/07

This work shall be performed in accordance with Section 107 of the Standard Specifications with the following alterations.

107.36 Dust Control. Delete section (d) of paragraph 4 and add the following: Dust shall be controlled by the uniform application of sprinkled water and shall be applied only when directed and in a manner approved by the Engineer. All equipment used for this work shall meet with the Engineer's approval and shall be equipped with adequate measuring devices for determining the exact amount of water discharged. All water used shall be properly documented by ticket or other approved means.

Delete paragraph 6 in its entirety. The intent of dust control watering is to supplement the Village's dust control program. The Village applies a dust control suppressant as necessary. The dust suppressant is applied regularly until pavement is restored. The cooperation of the contractor regarding this activity is addressed in Section 105.08 of the Standard Specifications.

Method of Measurement. This work will be measured in units of gallons of water applied. One unit is equivalent to 1,000 gallons of water applied. The Contractor's attention is called to Article 107.18 of the Special Provisions.

Basis of Payment. This work will be paid for at the contract unit price per unit for DUST CONTROL WATERING, which price shall include all labor, water and equipment for controlling dust as herein specified.

WATER MAIN REMOVAL

CIVILTECH ENGINEERING, INC

Description. This work shall consist of removing and disposing of the existing water main at the locations shown on the plans. This work shall be performed in accordance with the applicable portions of Section 551 of the Standard Specifications.

Basis of Payment. This work shall be paid for at the contract unit price per foot for WATER MAIN REMOVAL, of the size specified, which price shall include all labor, materials and equipment to complete work as described above.

MODULAR BLOCK RETAINING WALL

CIVILTECH REV. 01/07

Description. This work shall consist of furnishing and installing precast retaining walls at the locations shown on the plans or as directed by the Engineer.

Materials. Precast retaining wall blocks shall be manufactured by Keystone Retaining Wall Systems, Inc. of Roselle, Illinois, color to be gray. The Contractor shall submit a specification sheet (catalog cut) to the Engineer for approval prior to ordering any material.

Construction Requirements. Precast retaining walls shall be installed in strict accordance with the manufacturer's instructions. Construction drawings and design calculations for the retaining wall system shall be prepared by a registered professional engineer and shall bear their signature and seal. The Contractor shall submit these to the Village for approval prior to beginning work on this item.

Basis of Payment. This work will be paid for at the contract unit price per square foot of face for MODULAR BLOCK RETAINING WALL which price shall include all labor, equipment, excavation, materials - including geogrid and underdrains as required, backfilling and compacting, removal of spoil, and other incidentals as specified by the manufacturer required to complete the work as specified herein.

SANITARY SEWER REMOVAL

CIVILTECH ENGINEERING, INC

Description. This work shall consist of removing and disposing of the existing sanitary sewer at the locations shown on the plans. This work shall be performed in accordance with the applicable portions of Section 551 of the Standard Specifications.

Basis of Payment. This work shall be paid for at the contract unit price per foot for SANITARY SEWER REMOVAL, of the size specified, which price shall include all labor, materials and equipment to complete work as described above.

PRECONSTRUCTION VIDEO TAPING

REV. 01/07

Description. The Contractor shall prepare pre-construction video documentation of all features in the area affected by construction. All video camera, recorders, tapes, accessories, and appurtenances shall

be digital format equipment. Pre-construction video documentation shall consist of a series of high resolution color audio-video DVD's showing all areas affected by construction.

Construction Requirements. All pertinent exterior features within the construction's zone of influence shall be shown in sufficient detail to document its pre-construction condition. Features to be shown shall include but not be limited to pavements, curbs, driveways, sidewalks, retaining walls, buildings, landscaping, trees, shrubbery, fences, light posts, etc. View orientation shall be maintained by audio commentary on the audio track of each DVD to help explain what is being viewed.

Basis of Payment. The pre-construction video taping shall be completed and copies of the tapes submitted to the Village for approval before commencing mobilization and/or construction activities. This work shall be paid for at the contract lump sum price for PRECONSTRUCTION VIDEO TAPING. No progress payments will be processed until the preconstruction video tape has been received and approved by the Village.

PORTLAND CEMENT CONCRETE SURFACE REMOVAL (COLD MILLING) 1-1/2"

CIVILTECH ENGINEERING, INC.

This work shall be performed in accordance with Article 440.03 with the following modifications:

All references to HMA shall be replaced with Portland Cement Concrete.

Method of Measurement. Portland cement concrete removal shall be measured for payment in place and the area computed in square yards. If multiple passes are required to mill to the required depth, only the first pass shall be measured.

Basis of Payment. This work shall be paid for at the contract unit price per square yard for PORTLAND CEMENT CONCRETE SURFACE REMOVAL (COLD MILLING) 1-1/2".

SANITARY SEWER CLEAN OUTS
SANITARY SEWER CLEAN OUTS IN DRIVEWAY

CIVILTECH REV. 01/07

Description. This work shall consist of installing clean outs on sanitary sewer services. It shall be done in accordance with the applicable portions of Section 563 of the Standard Specifications, Section 34 of the Water and Sewer Specifications, and the Village's standard details.

Materials. Service tee and clean out riser shall be PVC (SDR 26/ASTM D2241). For clean outs located within landscaped areas, the Contractor shall use P1215 DWV bushing and G106 gasketed cap manufactured by Plastic Trends, Inc. (ASTM 3034). For clean outs located in driveway aprons, the Contractor shall use Schedule 40 DWV FIPT hub adapter and the raised MIPT plug both manufactured by GPK Products, Inc. (ASTM D 2665or ASTM D 1785) and an East Jordan Frame (2885Z) and lid (2975A). Equivalent fittings from other manufactures are acceptable at the discretion of the Engineer. Written acceptance must be obtained from the Engineer prior to the equivalent materials being approved. Geometric standards cannot be varied.

Construction Requirements. The Contractor shall install new tee fittings at locations directed by the Engineer (typically 1 ft from the right-of-way). Two "T" bolts shall be secured to the cap even with the top of the cap. The final rim elevation of cleanouts in the parkway shall be finished grade.
A concrete collar shall be placed around all cleanouts within bituminous driveways. The collar shall be constructed of Class SI concrete with minimum dimensions of 18 in. x 18 in. x 6 in. deep.

Basis of Payment. This work will be measured and paid for at the contract unit price each for SANITARY SEWER CLEAN OUT or SANITARY SEWER CLEAN OUT IN DRIVEWAY, which price shall include all labor, equipment, excavation, materials, backfilling, and removal of spoils. Trench backfill, when required, will be paid for separately.

SANITARY SEWER SERVICE CONNECTIONS — CIVILTECH REV. 09/07

Description. This work shall consist of removing and replacing the existing sanitary sewer service connections at locations of sanitary sewer removal and replacement, or at other locations as deemed necessary by the Engineer. This work shall be done in accordance with the details included as part of the contract plans. The work shall be done in accordance with applicable portions of Section 563 of the Standard Specifications and Section 34 of the Water and Sewer Specifications. The Contractor is to verify general limits with the Engineer in which this item is to be used, in relation to the location of the proposed sanitary sewer. The exact locations of these connections are to be verified in the field.

The Contractor shall install a new polyvinyl chloride wye fitting at the location of the connection on the mainline sanitary sewer. The services shall be replaced from the new wye at the mainline sanitary sewer to the existing cleanout, or to the right-of-way line with a new cleanout, using polyvinyl chloride pipe of the same diameter as the existing connection.

The Contractor is to ensure positive flow from the cleanout to the sanitary sewer.

The Contractor is to coordinate with the Village 48 hours prior to disconnecting the existing sanitary sewer service. During this time, the Contractor is to ensure the residences are notified of any potential interruption in services. This work is incidental to this item. After the sanitary connection has been installed the Contractor shall be responsible for locating said sanitary connection lines for the remainder of the construction. The Village will not locate sanitary connections placed by the Contractor for the duration of the project. Any damage to the sanitary connection by the Contractor caused by the Contractor's failure to properly locate the sanitary connection shall be repaired by the Contractor at his own expense to the satisfaction of the Engineer.

563.02 Materials. The materials shall be in accordance with the applicable portions of Section 550 and 563 with the following exceptions:

Replacement sewer service material shall be Polyvinyl Chloride (PVC) pipe conforming to ASTM D-2241 with gasket joints conforming to ASTM D-3212 and a Standard Dimension Ratio (SDR) equal to 26. The wye fittings to be installed on the main shall be fabricated to fit the mainline pipe that conforms to ASTM D-3034 and the branch service pipe that conforms to ASTM D-2241. All supplied pipes must be from the same manufacturer. All supplied fittings must be from the same manufacturer. All connections to existing pipes shall be made with "FERNCO" RC Series" or "MISSON Flex –Seal " adjustable repair couplings equipped with stainless steel bands.

Televising. The Village will televise all sanitary sewer service connections. This will be done after the placement of the binder course for asphalt pavement or aggregate base for concrete pavement. All unacceptable sections shall be repaired to the satisfaction of the Engineer and re-televised. All repairs must be completed by the Contractor and accepted by the Village prior to the placement of the surface course for asphalt or concrete pavement. Any service damaged after placement of pavement will be the responsibility of the Contractor. The Village will televise services prior to the end of the warranty period.

Method of Measurement and Basis of Payment. This work will be measured and paid for at the contract unit price per lineal foot for SANITARY SEWER SERVICE CONNECTION, of the type specified which price is to include all labor, equipment, excavation, materials, backfilling (except trench backfill), removal of existing connection and removal of spoils. The cleanout and trench backfill will be paid for separately.

SANITARY SEWER

REV. 01/07

Description. This work shall consist of the installation of sanitary sewers and shall be performed in accordance with Divisions II and III of the Water and Sewer Specifications and the following.

Materials. Polyvinyl Chloride (PVC) pipe and fittings shall conform to ASTM D-2241 with gasket joints conforming to ASTM F-477 and ASTM D-3212. All supplied pipes must be from the same manufacturer. All supplied fittings must be from the same manufacturer. Pipe and fittings dated over one year old shall not be permitted for use. The Standard Dimension Ratio (SDR) shall be 26. Coupling between pipes of dissimilar materials shall be "FERNCO" RC Series" equipped with stainless steel bands. Bedding material shall conform to IDOT gradations CA-11 or CA-13.

Construction Requirements. The bedding material shall be placed from 6 in. below to 12 in. above the exterior of the pipe. Backfilling shall be performed in strict accordance with Section 20-2.21B. Compaction shall be performed by Method 1(a). Installation shall be in accordance with ASTM D2321-89.

Testing. A mandrel test shall be performed in accordance with Section 31-1.11B(4). Any section failing to pass this test shall be re-excavated, repaired and re-compacted as necessary to the satisfaction of the Engineer. The sanitary manholes shall be tested in accordance with ASTM C1244, Standard Test Method for Concrete Sewer Manholes by the Negative Air Pressure (Vacuum), latest revision. Work required to comply with this requirement shall be included in the cost for sanitary sewer.

Televising. All sanitary sewer having a diameter of 8 in. or greater shall be televised by the Contractor and a DVD copy shall be submitted to the Village. All unacceptable sections shall be repaired to the satisfaction of the Engineer and re-televised.

Basis of Payment. This work will be paid for at the contract unit price per lineal foot for SANITARY SEWER, of the type and diameter specified which price shall include all labor; excavation, sheeting and bracing; materials, including pipe, service connections, fittings and bedding; backfilling, compacting and removal of spoils; dewatering; testing; televising and equipment necessary to complete the work as specified herein.

CATCH BASINS, TYPE D, 3'-DIAMETER, SPECIAL

CIVILTECH ENGINEERING, INC.

Description. This work shall consist of providing and installing Catch Basins, Type D, 3'-Diameter in accordance with Section 602 of the Standard Specifications, as indicated on the plans. This catch basin is to conform with the design shown in the latest edition of Illinois Department of Transportation Highway Standards, with the exception that the trap, as shown in the detail, is **NOT** to be included.

All other applicable specifications and special provisions remain in force. Each item is to be provided with the frame and grate as indicated on the plans.

Basis of Payment. This work will be paid for at the contract unit price per each for CATCH BASINS, TYPE D, 3' – DIAMETER, SPECIAL with the type of frame and grate or frame and lid specified.

INLETS SPECIAL

CIVILTECH REV. 02/07

Description. This work shall consist of supplying and installing a 12" catch basin with a grate at the locations indicated on the plans or as directed by the Engineer.

Materials. The catch basin shall be Spee-D Basins as manufactured by NDS or approved equal. Model Number 101 shall be provided when a single outlet pipe is required. Model Number 201 shall be provided when an inlet and an outlet pipe are required. Model Number 250 shall be provided when the inlet and outlet pipes are separated by 90 degrees. The grate shall consist of Model Number 638 square grate and adapter as manufactured by NDS or approved equal.

Construction Requirements. The inlets will be placed after the curb, gutter and sidewalk have been replaced to determine the exact locations and elevations. Any damage done to the existing curb, gutter or sidewalk shall be replaced at the Contractor's expense.

Method of Measurement. and **Basis of Payment.** This work will be measured and paid for at the contract unit price each for INLETS SPECIAL, which price shall include all labor, equipment, excavation, materials, backfilling, and removal of spoils. Pipe connecting the structure to the storm sewer system shall be paid for separately.

STORM SEWERS, 4" PVC FOR INLETS SPECIAL

CIVILTECH REV. 02/07

Description. This work shall be performed in accordance with applicable portions of Sections 550 and 1040 of the Standard Specifications and with applicable portions of Section 30 and 31 of the Water and Sewer Specifications.

Materials. The pipe used shall meet the specifications in Article 1040.03 of the Standard Specifications.

Method of Measurement. and **Basis of Payment.** This work will be paid for at the contract unit price per lineal foot for STORM SEWERS, 4" PVC FOR INLETS SPECIAL, which price shall include all labor, materials, including trench backfill near paved areas, and equipment required to complete the work as specified herein.

WATER MAIN FITTINGS

CIVILTECH REV. 09/07

Description. This work shall consist of furnishing and installing all tees, wyes, crosses, bends, plugs and reducers necessary to complete the water main installation as shown on the plans. It shall be done in accordance with the applicable portions of Section 46 of the Water and Sewer Specifications, the Village's Standard Details, and the following.

Materials. Fittings shall be ductile iron meeting requirements of ANSI/AWWA C153/A21.10 and ANSI/AWWA C111/A21.11.

Manufacturers. Fittings shall be manufactured by United States Pipe and Foundry Co.

Construction Requirements. All fittings shall be wrapped in a polyethylene film as specified in the special provision for Ductile Iron Water Main. All fittings shall be installed using "cor-ten" bolts. Testing and disinfecting of fittings shall be as specified elsewhere herein. Any fittings not shown on the plans, but which in the opinion of the Engineer, are necessary, will also be measured for payment. The Contractor will be required to maintain a list of all items used and provide an invoiced weight for payment purposes.

Method of Measurement. Water main fittings will be measured by weight in pounds of actual fittings installed including glands, gaskets and bolts. In lieu of weighing the fittings at the job site, the fittings may be delivered with a letter from the manufacturer certifying the weight of each type and size of fitting, subject to the review of the ENGINEER. In any case, the weight per fitting allowable for payment shall not exceed the following:

Bends	Tees & Crosses	Miscellaneous
90° bend, 6" – 85 lbs. 90° bend, 8" – 125 lbs. 45° bend, 6" – 75 lbs. 45° bend, 8" – 110 lbs. 45° bend, 10" – 150 lbs. 45° bend, 12" – 215 lbs. 22.5° bend, 8" – 110 lbs. 22.5° bend, 6" – 75 lbs. 11.25° bend, 8" – 110 lbs. 11.25° bend, 6" – 75 lbs.	Tee, 6"x 6" – 125 lbs. Tee, 8"x 6" – 175 lbs. Tee, 8"x 8" – 185 lbs. Tee, 12" x 4" – 320 lbs. Tee, 12" x 6" – 325 lbs. Tee, 12" x 8" – 340 lbs. Tee, 12" x 10" – 390 lbs. Tee, 12" x 12" – 415 lbs. Cross, 8" x 8" – 108 lbs. Cross, 12" x 10" – 460 lbs. Cross, 12" x 12" – 495 lbs.	Cut-In-Sleeve, 6" – 65 lbs. Cut-In-Sleeve, 8" – 85 lbs. Reducer, 6"x 4" – 65 lbs. Reducer, 8"x 6" – 95 lbs. Reducer, 12"x 8" – 165 lbs. Reducer, 12"x 6" – 150 lbs. Reducer, 12"x 10" – 190 lbs. Cap, 6" – 30 lbs. Cap, 8" – 45 lbs. Cap, 10" – 65 lbs. Cap, 12" – 95 lbs.

Basis of Payment. This work will be paid for at the contract unit price per pound for WATER MAIN FITTINGS, which price shall be payment in full for all labor, equipment, and material, including polyethylene wrapping, testing and disinfecting, to complete the work as specified herein.

REV. 01/07

WATER VALVE REMOVAL

Description. This work shall consist of the removal and disposal of existing water valves. Existing water main to be abandoned shall be capped using mechanical joint caps.

Method of Measurement and Basis of Payment. This work shall be paid for at the contract unit price each for REMOVE EXISTING WATER VALVE, regardless of the size of the valve, which price shall include all labor, equipment, disposal of the valve, capping of the existing water main, and all materials necessary to complete the work as specified herein.

AGGREGATE SURFACE COURSE FOR TEMPORARY ACCESS

Effective: April 1, 2001

Revise Article 402.10 of the Standard Specifications to read:

"**402.10 For Temporary Access.** The contractor shall construct and maintain aggregate surface course for temporary access to private entrances, commercial entrances and roads according to Article 402.07 and as directed by the Engineer.

The aggregate surface course shall be constructed to the dimensions and grades specified below, except as modified by the plans or as directed by the Engineer.

(a) Private Entrance. The minimum width shall be 3.6 m (12 ft). The minimum compacted thickness shall be 150 mm (6 in.). The maximum grade shall be eight percent, except as required to match the existing grade.

(b) Commercial Entrance. The minimum width shall be 7.2 m (24 ft). The minimum compacted thickness shall be 230 mm (9 in.). The maximum grade shall be six percent, except as required to match the existing grade.

(c) Road. The minimum width shall be 7.2 m (24 ft). The minimum compacted thickness shall be 230 mm (9 in.). The grade and elevation shall be the same as the removed pavement, except as required to meet the grade of any new pavement constructed.

Maintaining the temporary access shall include relocating and/or regrading the aggregate surface coarse for any operation that may disturb or remove the temporary access. The same type and gradation of material used to construct the temporary access shall be used to maintain it.

When use of the temporary access is discontinued, the aggregate shall be removed and utilized in the permanent construction or disposed of according to Article 202.03."

Add the following to Article 402.12 of the Standard Specifications:

"Aggregate surface course for temporary access will be measured for payment as each for every private entrance, commercial entrance or road constructed for the purpose of temporary access. If a residential drive, commercial entrance, or road is to be constructed under multiple stages, the aggregate needed to

construct the second or subsequent stages will not be measured for payment but shall be included in the cost per each of the type specified."

Revise the second paragraph of Article 402.13 of the Standard Specifications to read:

"Aggregate surface course for temporary access will be paid for at the contract unit price per each for TEMPORARY ACCESS (PRIVATE ENTRANCE), TEMPORARY ACCESS (COMMERCIAL ENTRANCE) or TEMPORARY ACCESS (ROAD).

Partial payment of the each amount bid for temporary access, of the type specified, will be paid according to the following schedule:

(a) Upon construction of the temporary access, sixty percent of the contract unit price per each, of the type constructed, will be paid.

(b) Subject to the approval of the Engineer for the adequate maintenance and removal of the temporary access, the remaining forty percent of the pay item will be paid upon the permanent removal of the temporary access."

SAWING ASPHALT OR CONCRETE FOR REMOVAL ITEMS

Description. The work shall consist of sawing joints in the existing roadway, bituminous surface, curb and gutter and sidewalk in order to separate those portions to be removed from those which will remain in place. This work shall be performed at the locations specified on the plans and/or as otherwise designated by the Engineer. In areas of full-depth removal, the saw cuts shall also be full-depth.

The Contractor will be required to saw vertical cuts so as to form clean vertical joints. Should the Contractor deface any edge, a new sawed joint shall be provided and any additional work, including removal and replacement, will be done at the Contractor's expense.

It is the Contractor's responsibility to determine the thickness of the existing pavement and whether or not it contains reinforcement.

Basis of Payment. This item shall not be paid for separately but shall be included in the cost of the specified removal items.

FLAT SLAB TOP

Description. This item shall consist of the installation of a flat slab top in place of a cone section on proposed structures where a cone section cannot be placed due to depth restrictions.

For structures having Type 8 grates, a 24-inch inside diameter by 4-inch (minimum) high riser shall be installed on the flat slab to provide earth cover over the slab for vegetation.

Basis of Payment. This work shall not be paid for but shall be considered incidental to the structure requiring the flat slab top.

FENCE TO BE REMOVED

Description. This work shall consist of removal and off-site disposal of existing wooden fence and chain link fence with privacy slat screen as shown on the plan or as directed by the Engineer.

This will also include removing and off-site disposal of the existing foundations used to anchor the fence posts.

Method of Measurement and Basis of Payment. This work will be paid for at the contract unit price per foot of FENCE REMOVAL, which price shall include all labor, material, equipment, disposal and incidental necessary to perform the work.

TEMPORARY PAVEMENT PATCH, 6"

Description. This work shall consist of constructing and removing temporary bituminous concrete pavement patch comprised of hot-mix asphalt base course on a prepared subgrade.
The temporary pavement patch will be placed after installing the proposed water main and valve vault as shown on the plans or as directed by the Engineer. After passing the pressure test and chlorination of the proposed water main the contractor will be allowed to remove and off-site disposal of the temporary pavement patch and pour the permanent patch.

Method of Measurement and Basis of Payment. This work will be paid for at the contract unit price per square yard of TEMPORARY PAVEMENT PATCH, 6", which price shall include all labor, material and equipment of placing the temporary pavement patch, 6" and removal and off-site dispose of the temporary patch when ready to pour the permanent pavement patch.

SEDIMENT CONTROL, SILT FENCE
SEDIMENT CONTROL, SILT FENCE MAINTENANCE

This Special Provision revises Section 280 and Section 1080 of the Standard Specifications for Road and Bridge Construction to eliminate the use of Perimeter Erosion Barrier and create two new items, one for Sediment Control, Silt Fence, and another for Sediment Control, Silt Fence Maintenance.

280.02 Materials. Revise Article 280.02 (f) to read:

"(f) Silt Fence ..... Article 1080.02"

1080.02 Geotextile Fabric. Add the following to Article 1080.02:

"Sediment Control, Silt Fence fabric shall conform to the specifications of AASHTO M288-00 for Temporary Silt Fence, < 50% elongation, unsupported. This fabric shall be 90 cm (36 in) in width.

Certification. The manufacturer shall furnish a certification with each shipment of silt fence material, stating the amount of product furnished, and that the material complies with these requirements.

Sediment Control, Silt Fence support posts shall be of 5x5 cm (2x2 in) nominal hardwood, a minimum of 1.2 m (48 in) long."

280.04 Temporary Erosion Control Systems. Delete Article 280.04 (b) and replace with:

"(b) Sediment Control, Silt Fence. This silt fence shall consist of a continuous silt fence adjacent to an area of construction to intercept sheet flow of water borne silt and sediment, and prevent it from leaving the area of construction.

The silt fence shall be supported on hardwood posts spaced on a maximum of 2.4 m (8 ft) centers. The bottom of the fabric shall be installed in a backfilled and compacted trench a minimum of 150 mm (6 in) deep and securely attached to the hardwood post by a method approved by the Engineer. The minimum height above ground for all silt fence shall be 760 mm (30 in)."

280.05 Maintenance. Add the following to Article 280.05:

"Sediment Control, Silt Fence Maintenance shall consist of maintaining silt fence that has fallen down or become ineffective as a result of natural forces. This work shall include the removal of sediment buildup from behind the silt fence when the sediment has reached a level of half the above ground height of the fence, or as directed by the Engineer.

Silt fence damaged by the Contractor's operations or negligence shall be repaired at the Contractor's expense, or as directed by the Engineer."

280.06 Method of Measurement. Revise Article 280.06 (c) to read:

"(c) Sediment Control, Silt Fence. This work will be measured for payment in meters (feet) in place and removed. Silt fence designated not to be removed, by either the plans or the Engineer, will be measured for payment by this item also.

Sediment Control, Silt Fence Maintenance. This work will be measured for payment, each incident, in meters (feet) of silt fence cleaned, reerected, or otherwise maintained."

280.07 Basis of Payment. Revise Article 280.07 (c) to read:

"(c) Sediment Control, Silt Fence. This work will be paid for at the contract unit price per meter (feet) for SEDIMENT CONTROL, SILT FENCE.

Sediment Control, Silt Fence Maintenance. This work will be paid for at the contract unit price per meter (feet) for SEDIMENT CONTROL, SILT FENCE MAINTENANCE."

INLET FILTER CLEANING

Description: This work shall consist of cleaning sediment from each assembled inlet filter. The Engineer will designate the need for cleaning based on the rate of debris and silt collected at each inlet filter location.

Cleaning of the inlet filter shall consist of inspecting and cleaning (includes removal and proper disposal of debris and silt that has accumulated in the filter fabric bag) by vactoring, removing and dumping or any other method approved by the Engineer.

Method of Measurement: Cleaning of the inlet filter shall be measured for payment each time that the cleaning work is performed at each of the inlet filter locations.

Basis of Payment: The work will be paid for at the contract unit price per each for INLET FILTER CLEANING, which price shall include all costs for labor, materials, equipment, and incidentals necessary to perform the work.

WEED CONTROL, PRE-EMERGENT GRANULAR HERBICIDE

Description: This work shall consist of spreading a pre-emergent granular herbicide in areas as shown on the plans or as directed by the Engineer. This item will be used in mulched plant beds and mulch rings.

Materials: The pre-emergent granular herbicide (Snapshot 2.5 TG or equivalent) shall contain the chemicals Trifluralin 2% active ingredient and Isoxaben with 0.5% active ingredient. The herbicide label shall be submitted to the Engineer for approval at least seventy-two (72) hours prior to application.

Method: The pre-emergent granular herbicide shall be used in accordance with the manufacturer's directions on the package. The granules are to be applied prior to mulching.

Apply the granular herbicide using a drop or rotary-type designed to apply granular herbicide or insecticides. Calibrate application equipment to use according to manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly. Do not use spreaders that apply material in narrow concentrated bands. Avoid skips or overlaps as poor weed control or crop injury may occur. More uniform application may be achieved by spreading half of the required amount of product over the area and then applying the remaining half in swaths at right angles to the first. Apply the granular herbicide at the rate of 100 lbs/acre (112 kg/ha) or 2.3 lbs/1000 sq. ft. (11.2 kg/1000 sq. meters).

Method of Measurement: Pre-emergent granular herbicide will be measured in place in Pounds (Kilograms) of Pre-emergent Granular Herbicide applied. Areas treated after mulch placement shall not be measured for payment.

Basis of Payment: This work will be paid for at the contract unit price per pound (kilogram) of WEED CONTROL, PRE-EMERGENT GRANULAR HERBICIDE which price shall include all materials, equipment, and labor necessary to complete the work as specified.

PLANTING WOODY PLANTS (MODIFIED)

Effective: January 1, 2006
Revised: October 10, 2006

This work shall consist of planting woody plants as specified in Section 253 of the Standard Specifications with the following revisions:

Add the following to Article 253.03 (A)(2):

The following additional species shall be planted only during the spring planting season:

- Celebration Freeman Maple (Acer x freemanii 'Celzam')
- Black Tupelo (Nyssa sylvatica)

Delete the third sentence of Article 253.07 and substitute the following:

The Contractor shall place the marking flags and outline each area for mass or solid planting. The Engineer will contact the Roadside Development Unit at (847) 705-4171, at least 72 hours prior to any digging to verify the layout.

Delete the fourth paragraphs of Article 253.10 and substitute the following:

Trees, shrubs, and vines shall be thoroughly watered with a method approved by the Engineer. Place backfill in 6 inch-thick layers. Work each layer by hand to compact backfill and eliminate voids. Maintain plumb during backfilling. When backfill is approximately 2/3 complete, saturate backfill with water and repeat until no more water can be absorbed. Place and compact remainder of backfill and thoroughly water again. Approved watering equipment shall be at the site of the work and in operational condition PRIOR TO STARTING the planting operation and DURING all planting operations OR PLANTING WILL NOT BE ALLOWED.

Add the following to Article 253.10(e):

Spade a planting bed edge at approximately a 45 degree angle and to a depth of approximately 3-inches (75 mm) around the perimeter of the tree bed. Remove any debris created in the spade edging process and disposed of as specified in Article 202.03.

Delete Article 253.11 and substitute the following:

Within 48 hours after planting, mulch shall be placed around all plants in the entire mulched bed or saucer area specified to a depth of 4 inches (100 mm). No weed barrier fabric will be required for tree and shrub planting. Pre-emergent Herbicide will be used instead of weed barrier fabric. The Pre-emergent Herbicide shall be applied prior to mulching. See specification for Weed Control, Pre-Emergent Granular Herbicide. Mulch shall not be in contact with the base of the trunk.

Delete Article 253.12 and substitute the following:

Any paper or cardboard trunk wrap must be removed before placing the tree in the tree hole in order to inspect the condition of the trunks. "A layer of commercial screen wire mesh shall be wrapped around the trunk of all deciduous trees. All other plants planted individually shall be similarly wrapped when directed by the Engineer. The screen wire shall be secured to itself with staples or single wire strands tied to the mesh. Trees shall be wrapped at time of planting, before the installation of mulch. The lower edge of the screen wire shall be in continuous contact with the ground and shall extend up to the lowest major branch.

Add the following to Article 253.13 Bracing:

Trees required to be braced shall be braced within 24 hours of planting.

Revise the first and second paragraphs of Article 253.14 of the Standard Specifications to read:

" **253.14 Period of Establishment.** Prior to being accepted, the plants shall endure a period of establishment. This period shall begin in June and end in September of the same year. To qualify for inspection, plants shall have been in place, in a live healthy condition, on or before June 1 of the year of inspection. To be acceptable, plants shall be in a live healthy condition, representative of their species, at the time of inspection in the month of September.

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

Delete sub-paragraph (a) of Article 253.15 Plant Care and substitute the following:

Water trees, shrubs, and vines within the first 24 hours of initial planting, and not less than once per week during the period of establishment. The Engineer may direct the Contractor to adjust the watering rate and frequency depending upon the weather conditions.

The water shall be applied to individual plants in such a manner that the plant hole shall be saturated without allowing the water to overflow beyond the earthen saucer. Watering of plants in beds shall be applied in such a manner that all plant holes are uniformly saturated without allowing the water to flow beyond the periphery of the bed. The plants to be watered and the method of application will be approved by the Engineer. The Contractor will not be relieved in any way from the responsibility for unsatisfactory plants due to the amount of watering.

Revise Article 253.16 of the Standard Specifications to read:

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

Revise Article 253.17 of the Standard Specifications to read:

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

(a) Initial Payment. Upon planting, 75 percent of the pay item(s) will be paid.

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

WATER CONNECTION SPECIAL

Description. This work shall consist of night time water shut downs and completion of connections so businesses will not be impacted during the regular business hours. The businesses and locations affected by this are the connection on Main Street north of Roosevelt Road, Dunkin Donuts, Culvers, Enchanted Castle and the Dentist office at the northeast corner of Main Street and Wilson Avenue. The contractor shall coordinate this work with the resident engineer and the businesses that are open 24 hours. Minimum of 48 hour advance notice is required. Materials will be paid for as specified elsewhere in this contract.

Basis of Payment. This work will be paid for at the contract unit price per each location for WATER CONNECTION SPECIAL as indicated in this special provision and as directed by the Engineer. This shall include all labor and equipment necessary to complete the work as specified.

WATER VALVES 10", SPECIAL

This work shall consist of removal and replacement of existing valve in accordance with the applicable portions of Section 561 of the Standard Specifications and Section 42 of the Water and Sewer Specifications with the following alterations.

42-2.01 MANUFACTURE AND MARKING Add the following: Valves shall be Mueller A-2360 resilient wedge gate valve with stainless steel trim, or Waterous 2500 resilient wedge gate valve with stainless steel trim bolts or approved equal.

42-2.02 TYPE AND MOUNTING Add the following: All accessory bolts, studs and nuts shall be "cor-ten".

42-2.03 END CONNECTIONS Delete subsections (B), (C), (D) and (E).

42-2.09 PAINTING AT FACTORY Delete the entire section and replace with the following: Valve bodies, bonnets and gates shall be epoxy impregnated in conformance with AWWA C550.

561.07 Basis of Payment. Add the following: Valves will be paid for at the contract unit price each for WATER VALVES 10", SPECIAL which price shall include all labor, materials and equipment required to remove and replace the existing valve as specified herein.

HIGH EARLY STRENGTH PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 9"

This work shall be performed in accordance with Section 423 and 351 of the Standard Specifications with the following alterations.

423.01 Description. Add the following: Driveways shall consist of a minimum of 9" of Class PV "High Early Strength" concrete, placed on 2 in. of Aggregate Base Course, Type B.

423.05 Forms. Delete sentence one and replace with the following: Side forms shall be of lumber of not less than 9" of steel of equal rigidity.

423.10 Method of Measurement. Add the following: All required excavation and saw cutting shall be included and shall not be paid for separately.

423.11 Basis of Payment. This work will be paid for at the contract unit price per square yard (square meter) for HIGH EARLY STRENGTH PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 9", which price shall include all required materials (including base course), labor and equipment necessary to complete the work as specified herein.

CHANGEABLE MESSAGE SIGN

Description. This work shall be performed in accordance to Section 701 of the Standard Specifications with the following alterations.

Use of the portable changeable message sign shall be as directed by the Engineer and will be utilized in various time and at various locations throughout the project.

Basis of Payment. This work will be paid for at the contract unit price per weekly for each CHANGEABLE MESSAGE SIGN which price shall include all required labor, material and equipment necessary to complete the work as specified herein.

NON-SPECIAL WASTE WORKING CONDITIONS

Description. This work shall be according to Article 669 of the Supplemental Specifications and the following:

Revise the fourth and fifth sentence of the second paragraph of Article 669.08 to read: When the analytical results indicate that detected levels are at or below the most stringent tier 1 Soil Remediation Objectives for Residential Properties presented in Appendix B Table A of 35 Illinois Administrative Code (IAC) 742, the soil excavated shall be included in the storm sewer or earth excavation, as appropriate, and backfill shall be in according to Section 205 and/or 208. When the analytical results indicate that detected levels are above the most stringent Tier 1 Soil Remediation Objectives for Residential Properties presented in Appendix B, Table A of 35 IAC 742, the soil excavated shall be considered a waste and managed as stated.

Revise Article 669.14(b)(3) to read: Plans showing the areas of contamination.

Revise Article 669.16 SOIL DISPOSAL ANALYSIS to read: When the waste material for disposal require sampling for disposal acceptance, the samples shall be analyzed for TCLP, PNAs, VOCs, SVOCs, RCRA metals, pH, flash point, and paint filter. The analysis will be paid for at the contract unit price each for SOIL DISPOSAL ANALYSIS using EPA Methods 1311 (extraction), 8260B for VOCs, 8270C for SVOCs, 6010B and 7470A for RCRA metals, 9045C for pH, 1030 for flash point, and 9095A for paint filter. This price shall include transporting the sample from the job site to the laboratory.

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 prequalified 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.

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 prequalified 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.

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

The Contractor shall manage all contaminated materials as non-special waste as previously identified. This work shall include monitoring and potential sampling, analytical testing, and management of petroleum contaminated material. **The generator number will be provided at the pre-construction meeting.**

The Contractor shall excavate and dispose of any soil classified as a non-special waste as directed by this project or the Engineer. Any excavation or disposal beyond what is required by this project or the Engineer shall be at the Contractor's expense. The preliminary environmental site assessment (PESA) report, available through the Village of Lombard, revealed the following locations must be continuously monitored for worker protection and soil contamination:

Main Street Station 106+75 to Station 108+00

CONCRETE SADDLE SUPPORT

Description. This work shall be performed in accordance with the details included in the plans when a storm sewer or sanitary sewer is constructed above a watermain. The Concrete Saddle shall be constructed when the bottom of sewer is within 18" of the top of the watermain pipe. It shall not be used when the same clearance exceeds 18".

Method of Measurement. CONCRETE SADDLE SUPPORT will be measured for payment, in place, in units of each.

Basis of Payment. This work will be paid for at the contract unit price for each CONCRETE SADDLE SUPPORT which price shall include all required labor, material and equipment necessary to complete the work.

SECTION 802 ELECTRICAL REQUIREMENTS - TRAFFIC SIGNALS

REV. 01/07

These Traffic Signal Special Provisions and the "District 1 Standard Traffic Signal Design Details" (Signal Details) supplement the Standard Specifications.
The intent of these Special Provisions is to prescribe the materials and construction methods commonly used in traffic signal installations (signals.) All material furnished shall be new and meet NEMA TS 2 Type 1 requirements. The locations and the details of all installations shall be as indicated on the plans or as directed by the Engineer.

The construction, installation, modification, and/or removal work shall be accomplished at the following intersection(s):

Main Street at Morris Avenue
Main Street at Edward Avenue

Notification of Intent to Work and Maintenance Transfer. Existing signals and/or any electrical facilities at certain intersections included in this project may be altered or reconstructed, totally or partially, as part of the work. The Contractor is hereby advised that all traffic control equipment, presently installed at these locations, may be the property of the State of Illinois, Department of Transportation, Division of Highways, the County of DuPage, or the Village. Once the Contractor has begun any work on any portion of the project, all intersection(s) which have the pay item "Maintenance of Existing Traffic Signal Installation" and/or "Temporary Traffic Signal Installation" shall become the full responsibility of the Contractor. The Contractor must notify the affected agencies of its intent to begin any physical construction work on the project or any portion thereof. This notification must be a minimum of 7 working days prior to the start of construction to allow sufficient time for inspection of the existing signal(s) and transfer of maintenance to the Contractor. If work is started prior to an inspection, maintenance of the signal(s) will be transferred to the Contractor without an inspection. The Contractor will become responsible for repairing or replacing all equipment that may not be operating properly or is damaged at no cost to the owner of the signal. Final repairs or replacement of damaged equipment must meet with the approval of the Engineer.
Contracts such as pavement grinding or patching which result in the destruction of detector loops do not require maintenance transfer, but do require a notification of intent to work and an inspection. A minimum of 7 working days prior to the loop removal, the Contractor shall notify the affected agencies, at which time arrangements will be made to adjust the traffic controller timing to compensate for the absence of detection.

Operation of Existing Traffic Signals. The Contractor is advised that the existing and/or temporary signal(s) must remain in operation during all construction stages, except for the most essential down time. Any shutdown of the signal for a period to exceed 15 minutes, must have prior approval of the Engineer. Approval to shutdown the signal shall only be granted during the period extending from 10:00 a.m. to 3:00 p.m. on weekdays. Shutdowns shall not be allowed during inclement weather or holiday periods.

Inspection of Controller and Cabinet. The Village reserves the right to request that any controller and cabinet be tested prior to field installation, at no extra cost to this contract. All railroad interconnected (including temporary) controllers and cabinets shall be newly constructed, built, tested and approved by the controller equipment vendor, in the vendor's local facility, prior to field installation. The vendor shall provide the technical equipment and assistance as required by the Engineer to fully test this equipment.

Field Inspection of Traffic Signal Work and Maintenance Transfer. It is the intent to have all work completed and all equipment field tested by the vendor prior to the Village's field inspection (turn-on.) If the Engineer determines that the work is not complete or that the inspection will require more than 2 hours to complete, the inspection shall be canceled and the Contractor will be required to reschedule it at another date. Maintenance responsibility will not be accepted until all punch list work is corrected and re-inspected.

When the road is open to traffic, except as otherwise provided in Sections 849 and 850 of the Standard Specifications, the Contractor may request an inspection of the completed signal at each separate location. The Village will not grant a field inspection until the Contractor provides written certification that the equipment has been field tested and the intersection is operating according to contract requirements.

Signal indications being tested shall match existing traffic controls at the intersection. If any conflicting signal indications are visible to motorists or pedestrians while testing, the Contractor shall be responsible to provide a police officer to direct traffic.

Upon demonstration that the signal is operating and that all work is completed in accordance with the contract and to the satisfaction of the Engineer, the Engineer will allow the signal to be placed in continuous operation. The agency which is responsible for the maintenance of each signal will assume maintenance upon successful completion of this inspection as well as all punch-list work. The Contractor must have completed all signal work and the electrical service installation must have been connected by the utility company prior to the Contractor requesting an inspection of the signal.

Acceptance and Control of Traffic Signal Materials & Final Inspection.

The Contractor shall provide:

1. Four copies of a letter listing the manufacturer's name and model numbers of the proposed equipment. The letter will be reviewed by the Engineer to determine whether the proposed equipment meets these specifications. The letters will be stamped as approved or rejected and returned to the Contractor.
2. Four copies of the proposed material catalog cuts.
3. Four copies of the proposed mast arm poles and assemblies.

All material approval requests shall be submitted a minimum of 7 days prior to the delivery of equipment to the site of the work, within 30 consecutive calendar days after the contract is awarded, or within 15 consecutive calendar days after the preconstruction conference, whichever is first. The contract number or intersection location must be printed on each sheet of these submittals.

Additionally, the Contractor shall provide the following at each signal inspection.

1. Written certification from the Contractor and equipment vendor of satisfactory field testing.
2. A representative of the controller supplier knowledgeable of the cabinet design and controller functions shall be in attendance.
3. One copy of the approved material letter.
4. One copy of the operation and service manuals of the controller and associated control equipment.
5. Five copies of the cabinet wiring diagrams 280 x 430 mm (11 x 17 inches) in size.
6. One set of signal plans of record.
7. The controller manufacturer shall provide a printer to print a form, not exceeding 280 x 430 mm (11 x 17 inches) in size, which records the traffic signal controller's timings; backup timings; coordination splits, offsets, and cycles; TBC Time of Day, Week and Year Programs; Traffic Responsive Program, Detector Phase Assignment, Type and Detector Switching; and any other keyboard programmable functions. The form shall include location, date, manufacturer's name, controller model and software version. The form shall be approved by the Engineer and a minimum of 3 copies must be furnished. The manufacturer must provide all programming information used within the controller.

Acceptance of the signal by the Village shall be based upon the results of the signal inspection. If approved, signal acceptance shall be made verbally to be followed by written correspondence from the Engineer. The Contractor shall be responsible for all traffic signal equipment and associated maintenance thereof until Village acceptance is granted.
All equipment and/or parts to keep the signal in working order shall be furnished by the Contractor. No spare signal equipment is available from the Village.
The cost of all work and materials required to comply with the above requirements shall be included in the pay item bid prices, under which the subject materials and equipment are paid, and no additional compensation will be allowed. Materials and equipment not complying with the above requirements shall be subject to removal and disposal at the Contractor's expense.

System Ground.
Grounding shall meet or exceed the applicable portions of the NEC and Section 806 of the Standard Specifications. A green jacketed #6 or larger copper cable within the signal conduit system shall provide a common ground interconnecting all ground rods at the intersection or as shown on the plans. Approved heavy-duty ground rod clamps shall be provided. No splices shall be allowed in the cable between ground rods. Ground rods shall be provided in all foundations, intersection handholes and the service installation. Diameter of ground rods shall be 20mm (3/4 inch). The neutral conductor and common ground cable shall only be connected at the service installation. They shall not be connected at any other location. Ground rod resistance to ground shall be 25 ohms of less or meet the requirements of the NEC. If necessary, additional ground rods and access wells shall be installed in order to meet resistance requirements at no additional cost to the contract.

Color of Traffic Signal Equipment.
All traffic signal equipment, except the traffic signal controller cabinet, shall be painted Valmont #333,"Dark Bronze" or approved equal.

805 ELECTRICAL SERVICE INSTALLATION –TRAFFIC SIGNALS

REV. 01/07

All work shall be performed in accordance with Section 805 & 806 of the Standard Specifications with the following alterations.

805.01 Description. Ground Mount service shall include: cabinet, post and pedestal. Pole Mount service shall include: cabinet, ¾ inch (20mm) grounding conduit, ground rod, and pole mount assembly.

805.02 Materials. Circuit breakers at the controller cabinet shall be rated at least 125 percent of the signal load and controller load or a minimum of 50 amperes, whichever is greater. Circuit breaker at the service pole shall be rated at least 120 percent of the size of the circuit breaker at the controller or a minimum of 60 amperes, whichever is greater. Weatherproof box shall be of adequate size and meet Commonwealth Edison requirements. Electrical service installation cabinet shall be a Pelco flasher cabinet with internal dimensions of 5 x 9 x 14 inches (130 x 230 x 360 mm) or approved equal. It shall be made of non corrosive metal and have a hinged door with moisture-proof gasket and a lock. Back panel shall be made of a non-conducting material. Surge protector shall meet or exceed amperage requirement of the service. Service connectors shall be large enough to provide a secure mount for the size of cable required. All circuit breakers shall be labeled. Cabinet shall mount to a 4 inch (100mm) metal post or to a wooden utility pole using assemblies recommended by the manufacturer.

805.03 Installation. Contractor is responsible for measuring the service load of all new or existing installations within the contract limits and shall replace all circuit breakers not meeting these amperage

requirements, the cost of which shall be incidental to the contract. Contractor shall notify the ComEd Marketing Representative a minimum of 30 working days prior to the anticipated date of hook-up.

805.04 Basis of Payment. This work will be paid for at the contract unit price each for SERVICE INSTALLATION, GROUND MOUNT or SERVICE INSTALLATION, POLE MOUNT, which price shall be payment in full for furnishing and installing the service installation complete. Foundation, including ground rod, will be paid for separately.

SECTION 810. UNDERGROUND RACEWAYS REV. 01/07

All work shall be performed in accordance with Section 810 of the Standard Specifications with the following alterations.

810.03 Installation. Replace the first sentence with; All underground conduit shall have a minimum depth of 30 inches (760 mm), except under railroad tracks where the conduit depth shall be a minimum of 5 feet (1.52 m) as measured to the outside diameter of the conduit on its top side. Under subsection (a) paragraph 11 add; However, no additional compensation will be allowed.

SECTION 814. HANDHOLE REV. 01/07

All work shall be performed in accordance with Section 814 of the Standard Specifications with the following alterations.

814.02 Materials. Dele te Note 3 and replace with; All cable hooks shall be hot-dipped galvanized in accordance with AASHTO M 111. Add Note 4; Per Article/Section 1088.06 cover legend shall read "TRAFFIC SIGNALS" or "STREET LIGHTING" as appropriate.

814.03 Construction. Add the following to paragraph 1; Handholes connected to post or pole foundations by conduit shall contain a ground rod, cost to be incidental. All conduits shall enter the handhole at a depth of 30 inches (760 mm) except for the conduits for detector loops when the handhole is less than 5 ft.(1.52 meters) from the detector loop. Delete subparagraph (b) of paragraph 3 in its entirety.

857 TRAFFIC ACTUATED CONTROLLER REV. 01/07

All work shall be performed in accordance with Section 857 of the Standard Specifications with the following alterations.

857.02 Materials. Controller shall be ASC/3-2100 as manufactured by Econolite Control Products. Controller shall provide features to inhibit the simultaneous display of a circular yellow and a yellow arrow display. Cabinet shall be as specified herein.

Traffic Actuated Controller and Cabinet Interconnected with Railroads. In addition to the aforementioned equipment specifications, the following shall apply to railroad interconnected equipment:

Railroad interconnected controllers and cabinets shall only be assembled by an approved traffic signal equipment supplier. The equipment shall be tested and approved in the equipment supplier's local facility prior to field installation.

Pedestrian clearance during railroad preemption will be limited to a flashing don't walk interval in length to the vehicle yellow clearance interval and shall time concurrently with the vehicle yellow clearance. Controller shall provide for immediate track clearance green re-service upon receipt of each subsequent preemption demand. During this re-service all normal vehicle clearance intervals, including red revert, will be respected. Terminal facility shall be wired so as to provide supervision of all essential preemption components. This wiring shall cause the facility to transfer to or remain in flashing operation in the event any critical component is missing, not connected or has failed. Interface relays shall be wired so as to be in the energized state during normal (non-preemption) operation. Failure of a relay coil shall open the supervision loop and cause the intersection to transfer to flashing operation. Each critical element such as controller harnesses and interface relays shall be wired to form a series loop which must be complete for normal operation. A method of supervising the 3 conductor cable interconnecting the traffic and railroad facilities shall provide flashing operation during failed cable conditions. Upon detection of a failed railroad interconnect, the controller shall provide 1 track clearance green interval and shall enter flashing operation at end of track clearance yellow interval. Such flashing operation must be manually reset. The supervision circuit shall, within reason, be capable of detecting failure of the supervision circuit components themselves, and shall provide fail-safe operation upon such failure. Interconnect to railroad facility shall be such that demand for preemption begins when the railroad flashers begin to flash and ends when railroad gates begin to rise. An IDOT approved method of controller security shall be implemented to assure data integrity and to preclude changes to critical data. The method shall include a means for the controller to continuously verify controller/cabinet CRC match. The CRC will be developed based on preemptor entries, unit data (including phases in use, sequence and ring structure, etc.), overlap assignment and timing, firmware version, and any special memory content necessary to proper operation. Where data is stored in a data module a spare data module shall provided to the Engineer.

860 MASTER CONTROLLER (SPECIAL)

CIVILTECH ENGINEERING, INC.

All work shall be performed in accordance with Section 860 of the Standard Specifications with the following alterations.

860.02 Materials. Master controller shall be model ASC/2M-1000 as manufactured by Econolite Control Products. In-cabinet modem shall be 56K V.90 and x2 compatible manufactured by 3Com or Boca. Outdoor network interface shall be Siecor CAC 3000, or approved equal. A remote monitoring system, to be installed at the Village complex, shall be supplied with this contract. It shall have the capability of operating the proposed closed loop system.

860.03 Method of Measurement and Basis of Payment. This work will be measured and paid for at the contract unit price each for MASTER CONTROLLER (SPECIAL), which shall be payment in full for furnishing, installing and all other equipment and connectors required for proper operation.

863 CONTROLLER CABINET AND PERIPHERAL EQUIPMENT

REV. 01/07

All work shall be performed in accordance with Section 863 of the Standard Specifications with the following alterations.

863.02 Materials. Cabinet shall be fabricated from 1/8 inch (3.2 mm) thick unpainted aluminum alloy 5052-H32. All external hardware shall be stainless steel. Cabinet shall be furnished with 4 LED lights to be used for cabinet lighting. A traffic signal control box heater shall be provided to reduce moisture and to heat the cabinet during cold weather. The heater shall be controlled by a thermostat. Cabinet surge protection device shall be equipped with an indicator lamp to show operating status. Guards shall be required for all inside door mounted toggle switches. All system loops shall be terminated and labeled at the detector panel. Additional spaces in the detector racks, wired and labeled to provide emergency preemptor cards for up to 4 channels of preemption, shall be provided. Cabinets shall provide a minimum of 16 pre-wired load bays and pedestrian push-button isolation. Individual load switches shall be provided for each vehicle, pedestrian and right turn overlap phase. Conflict monitor shall be MMU series manufactured by EDI. It shall be capable of monitoring 16 load bays.

875 TRAFFIC SIGNAL POST
876 PEDESTRIAN PUSH-BUTTON POST
877 MAST ARM ASSEMBLY AND POLE

REV. 01/07

All work shall be performed in accordance with Section 875, 876 and 877 of the Standard Specifications with the following alterations.

Materials. All posts, poles and mast arms shall be galvanized steel, powder coated by the manufacturer. Mast arms shall be one piece construction, unless otherwise approved by the Engineer. Base of pole shall be protected by a Component Products bolt-on galvanized metal shroud or approved equal.

878 TRAFFIC SIGNAL CONCRETE FOUNDATION

CIVILTECH ENGINEERING, INC.

Add the following to Article 878.03 of the Standard Specifications:

All anchor bolts shall be according to Article 1006.09, except all anchor bolts shall be hot dipped galvanized the full length of the anchor bolt including the hook.

Concrete Foundations, Type "A" for Traffic Signal Posts shall provide anchor bolts with the bolt pattern specified within the "District One Standard Traffic Signal Design Details." All Type "A" foundations shall be a minimum depth of 48 inches (1.22 m).

Concrete Foundations, Type "C" for Traffic Signal Cabinets with Uninterruptible Power Supply (UPS) cabinet installations shall be a minimum of 48 inches (1.22 m) long and 31 inches (790 mm) wide. All Type "C" foundations shall be a minimum depth of 48 inches (1.22 m). An integral concrete pad to support the UPS cabinet shall be constructed a minimum of 20 inches (510 mm) long and a minimum depth of 10 inches (250 mm). The concrete apron in front of the Type IV or V cabinet shall be 36 in. x 48 in. x 5 in. (910 mm X 1220 mm X 130 mm). The concrete apron in front of the UPS cabinet shall be 36 in. x 31 in. x 5 in. (910 mm X 790 mm X 130 mm). Anchor bolts shall provide bolt spacing as required by the manufacturer.

Concrete Foundations, Type "D" for Traffic Signal Cabinets shall be a minimum of 48 inches (1.22 m) long and 31 inches (790 mm) wide. All Type "D" foundations shall be a minimum depth of 48 inches

(1.22 m). The concrete apron shall be 36 in. x 48 in. x 5 in. (910 mm X 1220 mm X 130 mm). Anchor bolts shall provide bolt spacing as required by the manufacturer.

Concrete Foundations, Type "E" for Mast Arm and Combination Mast Arm Poles shall meet the following requirements:

Table 1
DESIGN TABLE FOR MAST ARM FOUNDATIONS

MAST ARM LENGTH	FOUNDATION DEPTH*	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF NO. 15 (NO. 5) BARS
Less than 9.1m (30')	10'-0" (3.0m)	30" (750mm)	24" (600mm)	8
Greater than or equal to 9.1m (30') and less than 12.2m (40')	13'-6" (4.1m)	30" (750mm)	24" (600mm)	8
	11'-0" (3.4m)	36" (900mm)	30" (750mm)	12
Greater than or equal to 12.2m (40') and less than 15.2m (50')	13'-0" (4.0m)	36" (900mm)	30" (750mm)	12
Greater than or equal to 15.2m (50') and up to 16.8m (55')	15'-0" (4.6m)	36" (900mm)	30" (750mm)	12
Greater than or equal to 16.8m (55') and less than 19.8m (65')	21'-0" (6.4m)	42" (1060mm)	36" (900mm)	16
Greater than or equal to 19.8m (65') and up to 22.9m (75')	25'-0" (7.6m)	42" (1060mm)	36" (900mm)	16

Foundation depths specified are for sites which have cohesive soils (clayey, silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive strength of (Qu)>1.0 tsf (100kPa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.

Concrete Foundations, Type "E" for Combination Mast Arm Poles shall be 36 inch (900 mm) diameter for any mast arm length less than 55 feet (16.8 m). Foundations used for Combination Mast Arm Poles shall provide an extra 2-1/2 inch (65 mm) raceway.

No foundation is to be poured until the Resident Engineer gives his/her approval as to the depth of the foundation.

880 SIGNAL HEAD AND OPTICALLY PROGRAMMED SIGNAL HEAD
881 PEDESTRIAN SIGNAL HEAD

REV. 01/07

All work shall be performed in accordance with Section 880 and 881 of the Standard Specifications with the following alterations:

880.02 and 881.02 Materials. All signal and pedestrian heads shall have 12 inch (300mm) sections. Connecting hardware and mounting brackets shall be unpainted aluminum or galvanized steel. A corrosive resistant anti-seize lubricant shall be applied to all mounting bracket joints. The lubricant shall be visible to the Engineer at the signal inspection. Pedestrian signal head lenses shall be furnished with the international symbolic "Walking Person" and "Upraised Palm" lenses. "Egg crate" sun shields are not permitted. Lamps shall be manufactured by Duratest, Sylvania or an approved equal.

881.03 and 881.03 Installation. Signal heads shall be positioned per the Signal Details.

882 TRAFFIC SIGNAL BACKPLATE — CIVILTECH ENGINEERING, INC.

All work shall be performed in accordance with Section 882 of the Standard Specifications with the following alterations.

882.02 Materials. Backplates shall be ABS plastic and provided with openings (louvers).

887 EMERGENCY VEHICLE PRIORITY SYSTEM — CIVILTECH ENGINEERING, INC.

All work shall be performed in accordance with Section 887 of the Standard Specifications with the following alterations.

887.02 Materials. Delete in its entirety and replace with: The system equipment shall be "Opticom" as manufactured by 3M Corporation, Model 452 or 454. All new installations shall be equipped with Confirmation Beacons per the Signal Details. Confirmation Beacon shall consist of a 6 watt Par 38 LED flood lamp for each direction of preemption. Lamp shall have an adjustable mount with a weatherproof enclosure for cable splicing. All hardware shall be cast aluminum or stainless steel. Preemption movement shall be signaled by a flashing indication at the rate specified by Section 4E-5 of the MUTCD. Stopped preempted movements shall be signalized by a continuous indication. All systems shall operate at a uniform rate of 14.035 Hz $\pm$0.002, or as otherwise required by the Engineer

887.03 Installation. Holes drilled into signal poles, mast arms, or posts shall require rubber grommets. Equipment (Opticom) shall be rack mountable.

887.04 Method of Measurement. Light detector amplifiers shall be measured as 1 per controller and shall provide operation for all movements required in the preemption phase sequence.

TELEPHONE SERVICE INSTALLATION — CIVILTECH ENGINEERING, INC.

Description. This item shall provide a 50mm (2") galvanized steel conduit from the traffic signal controller, through the foundation, and underground to the nearest telephone service with telephone cable and a junction box in the controller cabinet.

Construction Requirements. The Engineer will contact AT&T to confirm service location and request a hookup date.

If the service is pole mounted, the conduit shall be terminated a minimum of 3 meters (10 feet) above the ground line and securely fastened in the same manner as the electrical service. A weatherhead shall be provided at the top of the pole mounted service.

If the service is ground mounted, the conduit shall be extended into the service box to a height which will not affect the operation of the telephone equipment. Each end of the conduit shall be plugged with an approved conduit putty.

A Siecor CAC 3000, or equal, plastic telephone network interface junction box shall be mounted within the controller cabinet. Telephone cable shall be mounted within the controller cabinet, and shall be installed from the network interface junction box to the telephone service. Five feet of excess cable shall be provided within the cabinet and at the service. The cable shall meet or exceed AT&T's specifications for 5 pair direct burial service cable.

Basis of Payment. This work will be paid for at the contract unit price each for TELEPHONE SERVICE INSTALLATION which price shall be payment in full for all equipment, labor and materials necessary to complete this work as specified, including installation of the weatherhead junction box, cable and plugging the ends of the conduit with approved putty.

The cost of the 50mm (2") galvanized steel conduit will be paid separately in accordance with Article 810.05 of the Standard Specifications.

RADIO ANTENNA CIVILTECH ENGINEERING, INC.

This work shall consist of installing an antenna to transmit signals for the wireless interconnect at the locations shown on the plans.

The antennas shall be installed at the top of a combination mast arm pole as shown on the plans at the intersections of Main Street and Morris Avenue and Main Street and Edward Avenue. Directional (Yagi) antennas shall be used. The antennas at the two intersections shall be pointed toward one another. The contractor shall be responsible for making all required connections to install the antenna so that it operates properly in the interconnect system.

Basis of Payment. This work shall be paid for at the contract unit price each for RADIO ANTENNA and shall include all connections necessary to install the antenna in proper working order. COAXIAL CABLE IN CONDUIT shall be paid for separately.

ELECTRIC CABLE IN CONDUIT, COAXIAL CIVILTECH ENGINEERING, INC.

This work shall consist of furnishing and installing a Belden 8281 Coaxial Cable or approved equal for distances between the video junction box and the traffic control cabinet. The cable shall be a 75 ohm coaxial cable with 20 gauge solid bare copper conductor (9.9 ohms/M), solid polyethylene insulating dielectric, 96%(min) tinned copper double-braided shield, and black polyethylene outer covering. The nominal outside diameter shall be 0.304 inches. Amphenol 31-71032 (or equivalent) BNC plug connectors shall be used at both the video junction box and traffic control cabinet ends of the cable.

Basis of Payment. This work will be paid for at the contract unit price per foot for ELECTRIC CABLE IN CONDUIT, COAXIAL, which price shall be payment in full for furnishing the material and making all electrical connections and installing the cable complete, measured as specified herein.

RADIO TRANSCEIVER

CIVILTECH ENGINEERING, INC.

This work shall consist of installing a radio transceiver in the controller cabinet. The transceiver shall be an Intuicom Communicator-T or approved equal. The contractor shall be responsible for making all required connections to install the transceiver so that it operates properly in the interconnect system.

Basis of Payment. This work shall be paid for at the contract unit price each for RADIO TRANSCEIVER and shall include all connections necessary, including software and service, to install the transceiver and connect it to the controller in proper working order.

VIDEO DETECTION SYSTEM COMPLETE INTERSECTION

CIVILTECH ENGINEERING, INC.

This specification sets forth the minimum requirements for a system that monitors vehicles on a roadway via processing of video images and provides detector outputs to a traffic controller or similar device. This work shall consist of furnishing and installing an Autoscope Solo Terra video vehicle detection system at one signalized intersection, including all necessary hardware, cable and accessories necessary to complete the installation in accordance with the manufacturer's specifications.

The system shall consist of integrated machine vision processor sensors (MVPs), an electrical interface panel, and a detector interface card. The quantity of MVP sensors included with this pay item shall be as shown on the plans. The system shall also include a ten-inch color VGA monitor with BNC connector for video input. A simple multi-camera video switching unit shall be provided to select video input to the monitor. Vehicle detection zones shall be user-defined through interactive graphics by placing lines and/or boxes in an image on a VGA monitor. The system shall calculate traffic parameters in real-time and provide local non-volatile data storage for later downloading and analysis.

I. Introduction

The video vehicle detection system shall be easily configurable and expandable to meet traffic management applications such as intersection control, traffic monitoring, incident management, and traffic data collection. The system shall be composed of the following components:

- A machine vision processor (MVP) sensor that provides vehicle detection, JPEG video compression, and communications with other subsystems.
- Detector Interface Card
- A Windows-based communications and Windows-based applications software for setup and system configuration as well as any continued monitoring and data collection, if required.
- System communications that shall operate over any appropriate serial communications links provided by the systems integrator.
- An integrated color camera, zoom lens, and machine vision processor all in one unit; direct, real-time iris and shutter speed control; with single-frame, JPEG image compression.

- The system shall also have easily configured IP addressing for the MVP sensor field network.

II. MVP Sensor

The MVP sensor shall combine an integrated high-speed, color imaging CCD array with zoom lens optics, image-processing hardware and a general-purpose CPU bundled into a sealed enclosure. The sensor shall be equipped with a sunshield to reflect solar heat and to shield the CCD array and faceplate from direct exposure to the sun. The sensor shall also be equipped with a faceplate heater to prevent accumulated ice, snow, or condensation from obscuring the view of the camera. The general-purpose CPU shall directly control the optics and camera electronics.

The lens shall be pre-focused at the factory and shall not require field adjustment. The zoom optics shall maintain focus throughout the operating range from 7 to 74 degrees horizontal field of view (5 to 58 degrees vertical field of view). At an operator's request, the MVP sensor shall temporarily switch to surveillance mode operation, which allows the operator to zoom the lens.

The MVP sensor shall provide color analog video output at 30 frames per second, and shall process a minimum of twenty (20) detector zones placed anywhere in the field of view of the sensor. The analog video output shall provide graphics overlay that indicates the current real-time detection state.

MVP Sensor External Interfaces

The external interfaces to the MVP sensor shall include the following:

Network Communications Port

There shall be a field network communications port to configure and provide general communications and data retrieval. The MVP sensor shall use a full- or half-duplex, RS-485, 4-wire electrical network to facilitate communications with a Windows computer. This port shall be used to update the embedded software and to interact with applications software for the various detection requests supported by the MVP sensor.

Detector I/O Port

The MVP sensor detector port shall use a dedicated, RS-485 2-wire, half-duplex interface between the MVP sensor and a detector interface card also known as a detector port master. The real-time state of traffic controller phase inputs shall be transmitted to the MVP sensor. The detector port master interface card shall subsequently translate the detection states to a traffic signal controller.

Differential Video

The MVP sensor shall output full motion, differential analog video over three-wire power cable.

Power

The MVP sensor shall operate on 110/220 VAC at 50/60 Hz. The camera and processor electronics and power supply shall consume a maximum of 10 watts. The integrated faceplate heater shall consume a maximum of 15 watts.

MVP Sensor Vehicle Detection Requirements

The MVP sensor shall be able to be programmed with a variety of detector types which can perform the following functions:

- Presence/passage detection of moving and stopped vehicles.

- Detection based on the direction of travel.
- Measure vehicle speed and length and provide five (5) classes of vehicles based on length.
- Detect incident shock waves using effective detection algorithms.
- Generate alarm status based on the detection of shock waves, wrong-way vehicles, stopped vehicles, red-light runners, or other operator-defined traffic conditions.
- Combine the output of multiple detectors with logical operators and modify the combined state based on delay or extension timers.

Detection Zone Programming
A VGA monitor shall display the detection zones superimposed on images of traffic scenes. A mouse and keyboard shall be used to place, size, and orient detection zones and edit previously defined detector configurations. It shall also be possible to download detector configurations from the computer to the MVP sensor and upload the current detector configuration that is running in the MVP sensor.

Count Detection Performance
Using an MVP sensor installed for optimal viewing, 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 artifact conditions. Artifact conditions are combinations of weather and lighting conditions that result from shadows, fog, rain, snow, etc. The volume count shall be accumulated for all traveled lanes, and accumulated over time intervals that contain a minimum of one hundred (100) vehicles to ensure statistical significance.

Demand Presence Detection Performance
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-percent error under all operating conditions. In the presence of artifact conditions, the MVP sensor shall minimize extraneous (false) protected movement calls to less than 7%.

Speed Detection Performance
The MVP sensor shall accurately measure average speed of multiple vehicles with more than 98% accuracy under all operating conditions for approaching and receding traffic. The MVP sensor shall accurately measure individual vehicle speeds with more than 95% accuracy under all operating conditions for vehicles approaching the sensor and 90% accuracy for vehicles receding from the sensor.

MVP Sensor Enclosure
The MVP sensor and lens assembly shall be housed in an environmental enclosure that provides the following capabilities:

- The enclosure shall be waterproof and dust-tight to NEMA-4 specifications, and shall have the option to be pressurized with dry nitrogen to 5 ± 1 psi.
- The enclosure shall allow the MVP sensor to operate satisfactorily over an ambient temperature 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.
- A faceplate heater shall prevent the formation of ice and condensation in cold weather.

MVP Sensor Electrical

All video connections from the sensor shall be isolated from earth ground. The video output, communication, and power stages of the sensor shall include transient protection to prevent damage to the sensor. The MVP sensor shall meet CE, FCC, and UL requirements for safety and EMI.

Communications Panel Requirements
The communications interface panel shall provide a terminal block for terminating power, as well as terminations for the MVP power connections, a Broadband-over-Power-Line (BPL) transceiver to support up to 10MB/s interdevice communications, electrical surge protectors to isolate the modular cabinet interface unit and MVP sensors, and an interface connector to cable directly to the modular cabinet interface unit.

III. Modular Cabinet Interface Unit
The system shall use a defined communication protocol (detector port protocol) between the MVP sensors and the Modular Detector Interface. The protocol shall be used to communicate TS1 input pins, TS1 output pins, TS2 detector states, and TS2 phase states. The detector interface card shall be the master of the detector port (DPM) and the MVP sensors shall be the slaves. The DPM shall issue a command for a single or up to eight (8) MVP sensors to respond. The DPM shall exchange input and output state data with the MVP sensor every 100 ms. The DPM interface card shall subsequently translate the detection states to a traffic signal controller. Each input or output pin of an interface card shall have one associated LED output to reflect its input or output state.

Basis of Payment. This item will be paid for at the contract unit price each for VIDEO DETECTION SYSTEM COMPLETE INTERSECTION which price shall be payment in full for furnishing all associated equipment required, installing the system at one signalized intersection, and placing the system in operation to the satisfaction of the Engineer.

ELECTRIC CABLE IN CONDUIT, NO. 18 3C

CIVILTECH ENGINEERING, INC.

This work shall consist of furnishing and installing a Belden YR52311 communications cable, or approved equal, in existing and/or new conduit. This Belden cable has a color code that matches the MVP cable currently in use. The cable shall consist of 18 AWG stranded bare copper twisted-pair conductors, with HDPE insulation, and HDPE jacket with nylon ripcord. The nominal outside diameter shall be 0.341-inch.

Basis of Payment. This work will be paid for at the contract unit price per foot for ELECTRIC CABLE IN CONDUIT, NO. 18 3C, which price shall be payment in full for furnishing, installing and making all electrical connections necessary for proper operation.

VIDEO TRANSMISSION SYSTEM

CIVILTECH ENGINEERING, INC.

This work shall consist of furnishing and installing an ADPRO Fast Scan Series III telephone video transmitter or approved equal and a U.S. Robotics 56K telephone modem or approved equal for transmission of the video detection to a remote location.

The contractor shall install the equipment so that the video can be transmitted over telephone lines. The contractor shall supply additional cable and make all connections necessary for the equipment to operate properly.

Basis of Payment. All work described above shall be paid for each as VIDEO TRANSMISSION SYSTEM.

MANUAL TRAFFIC SIGNAL CONTROL PUSH-BUTTON SWITCH

CIVILTECH ENGINEERING, INC.

This work shall consist of furnishing a manual control push-button switch which will allow authorized personnel to advance the signal phases in the traffic signal controller under conditions such as a special event or for incident management purposes. The push-button switch shall connect to the control cabinet through a jack located in the police door of the cabinet.

The contractor shall provide the pushbutton assembly and it shall be coiled and sealed in a liquid-tight container stored inside the police door of the control cabinet enclosure.

Basis of Payment. All work described above shall be paid for each as MANUAL TRAFFIC SIGNAL CONTROL PUSH-BUTTON SWITCH.

PEDESTRIAN SIGNAL HEAD, LED, WITH COUNTDOWN TIMER

CIVILTECH ENGINEERING, INC.

Description.
This work shall consist of furnishing and installing a pedestrian countdown signal head, with light emitting diodes (LED) of the type specified in the plan.

Pedestrian Countdown Signal Head, Light Emitting Diode, shall conform fully to the SIGNAL HEAD, LIGHT EMITTING DIODE specification, with the following modifications:

(a) Application.

1. Pedestrian Countdown Signal Heads, shall not be used at signalized intersections where traffic signals and railroad warning devices are interconnected.

2. All pedestrian signals at an intersection shall be the same type and have the same display. No mixing of countdown and other types of pedestrian traffic signals will be permitted.

(b) General.

1. The module shall operate in one mode: Clearance Cycle Countdown Mode Only. The countdown module shall display actual controller programmed clearance cycle and shall start counting when the flashing clearance signal turns on and shall countdown to "0" and turn off when the steady Upraised Hand (symbolizing Don't Walk) signal turns on. Module shall not have user accessible switches or controls for modification of cycle.

2. At power on, the module shall enter a single automatic learning cycle. During the automatic learning cycle, the countdown display shall remain dark.

3. The module shall re-program itself if it detects any increase or decrease of Pedestrian Timing. The counting unit will go blank once a change is detected and then take one complete pedestrian cycle (with no counter during this cycle) to adjust its buffer timer.

4. The module shall allow for consecutive cycles without displaying the steady Upraised Hand.

5. The module shall recognize preemption events and temporarily modify the crossing cycle accordingly.

6. If the controller preempts during the Walking Person (symbolizing Walk), the countdown will follow the controller's directions and will adjust from Walking Person to flashing Upraised Hand. It will start to count down during the flashing Upraised Hand.

7. If the controller preempts during the flashing Upraised Hand, the countdown will continue to count down without interruption.

8. The next cycle, following the preemption event, shall use the correct, initially programmed values.

9. If the controller output displays Upraised Hand steady condition and the unit has not arrived to zero or if both the Upraised Hand and Walking Person are dark for some reason, the unit suspends any timing and the digits will go dark.

10. The digits will go dark for one pedestrian cycle after loss of power of more than 1.5 seconds.

11. The countdown numerals shall be two (2) "7 segment" digits forming the time display utilizing two rows of LEDs.

12. The LED module shall meet the requirements of the Institute of Transportation Engineers (ITE) LED purchase specification, "Pedestrian Traffic Control Signal Indications - Part 2: LED Pedestrian Traffic Signal Modules," or applicable successor ITE specifications, except as modified herein.

13. The LED modules shall provide constant light output under power. Modules with dimming capabilities shall have the option disabled or set on a non-dimming operation.

14. In the event of a power outage, light output from the LED modules shall cease instantaneously.

15. The LEDs utilized in the modules shall be AlInGaP technology for Portland Orange (Countdown Numerals and Upraised Hand) and GaN technology for Lunar White (Walking Person) indications.

16. The individual LEDs shall be wired such that a catastrophic loss or the failure of one or more LED will not result in the loss of the entire module.

(c) Pedestrian Countdown Signal Heads.

1. Pedestrian Countdown Signal Heads shall be 16 inch (406mm) x 18 inch (457mm), for single units with the housings glossy black polycarbonate. Connecting hardware and mounting brackets shall

be polycarbonate (black). A corrosion resistant anti-seize lubricant shall be applied to all metallic mounting bracket joints, and shall be visible to the inspector at the signal turn-on.

2. Each pedestrian signal LED module shall be fully MUTCD compliant and shall consist of double overlay message combining full LED symbols of an Upraised Hand and a Walking Person. "Egg Crate" type sun shields are not permitted. Numerals shall measure 9 inches (229mm) in height and easily identified from a distance of 120 feet (36.6m).

3. Pedestrian countdown signal LED modules installed shall be manufactured by General Electric.

(d) Electrical.

1. Maximum power consumption for LED modules is 29 watts.

2. The measured chromaticity shall remain unchanged over the input line voltage range listed of 80 VAC to 135 VAC.

Basis of Payment. This item shall be paid for at the contract unit price each for PEDESTRIAN SIGNAL HEAD, LED, WITH COUNTDOWN TIMER of the type specified, which shall be payment in full for furnishing the equipment described above including LED(s) modules, all mounting hardware, and installing them in satisfactory operating condition. The type specified will indicate the number of faces and the method of mounting.

OPTIMIZE TRAFFIC SIGNAL SYSTEM

CIVILTECH ENGINEERING, INC.

Description.
This work shall consist of optimizing a closed loop traffic signal system.

OPTIMIZE TRAFFIC SIGNAL SYSTEM applies when a new or existing closed loop traffic signal system is to be optimized and signals are to be coordinated. The purpose of this work is to improve system performance by optimizing traffic signal timings, developing a time of day program and a traffic responsive program.

After the signal improvements are completed, the signal system shall be optimized as specified by an approved Consultant who has previous experience in optimizing Closed Loop Traffic Signal Systems. Traffic signal system optimization work, including fine-tuning adjustments of the optimized system, will follow the most recent IDOT District 1 guidelines, except as noted herein.

A listing of existing signal equipment, interconnect information, phasing data, and timing patterns may be obtained from the Department, if available and as appropriate. The Consultant shall confer with the Engineer prior to optimizing the system to determine if any extraordinary conditions exist that would affect traffic flows in the vicinity of the system, in which case, the Consultant may be instructed to wait until the conditions return to normal or to follow specific instructions regarding the optimization.

(a) The following tasks are associated with OPTIMIZE TRAFFIC SIGNAL SYSTEM.
1. Appropriate signal timings and offsets shall be developed for each intersection and appropriate cycle lengths shall be developed for the closed loop signal system.

2. Traffic counts shall be taken at all intersections after the permanent traffic signals are approved for operation by the Area Traffic Signal Operations Engineer. Manual turning movement counts shall be conducted from 6:30 a.m. to 9:30 a.m., 11:00 a.m. to 1:00 p.m., and 3:30 p.m. to 6:30 p.m. on a typical weekday from midday Monday to midday Friday. The turning movement counts shall identify cars, and single-unit and multi-unit heavy vehicles.

3. Proposed signal timing plan(s) for the new or modified intersection(s) shall be forwarded to the Engineer for review prior to implementation.

4. Consultant shall conduct on-site implementation of the timings and make fine-tuning adjustments to the timings in the field to alleviate observed adverse operating conditions and to enhance operations.

(b) The following items shall be provided to the Engineer for OPTIMIZE TRAFFIC SIGNAL SYSTEM:

1. Turning Movement Counts (Showing turning movement counts in the intersection diagram for each period, including truck percentage)
2. Synchro Analysis
   a. AM: Time-Space diagram in color, followed by intersection Synchro report (Timing report) summarizing the implemented timings.
   b. Midday: same as AM
   c. PM: same as AM.
3. Two (2) CDs for the optimized system. The CDs shall include the following elements:
   a. Copies of the Synchro files for the optimized system
   b. Traffic counts for the optimized system
   c. New or updated ARIES intersection graphic display files for each of the system intersections.

Basis of Payment. The work shall be paid for at the contract unit price each for OPTIMIZE TRAFFIC SIGNAL SYSTEM, which price shall be payment in full for performing all work described herein for the entire traffic signal system.

TESTING SERVICE CORPORATION

Corporate Office
360 S. Main Place, Carol Stream, IL 60188-2404
630.462.2600 • Fax 630.653.2988

Local Offices:
1701 W. Market Street, Suite B, Bloomington, IL 61701-2641
309.821.0430 • Fax 309.821.1242

457 E. Gundersen Drive, Carol Stream, IL 60188-2492
630.653.3920 • Fax 630.653.2726

209 Cleveland Street, Suite C, Cary, IL 60013-2978
847.516.0505 • Fax 847.516.0527

650 Peace Road, Suite D, DeKalb, IL 60115
815.748.2100 • Fax 815.748.2110

401 Riverside Drive, Suite 24, Gurnee, IL 60031-5906
847.249.6040 • Fax 847.249.6042

203 Earl Road, Suite A, Shorewood, IL 60431-9408
815.744.1510 • Fax 815.744.1728

8201 W. 183RD Street, Suite C, Tinley Park, IL 60477-9249
708.429.2080 • Fax 708.429.2144

Geotechnical & Environmental Engineering

Construction Materials Engineering & Testing

Laboratory Testing of Soils, Concrete & Asphalt

Geo-Environmental Drilling & Sampling

Pavement and Subgrade Investigation

Main Street Improvements

Ann Street to Central Avenue

Village of Lombard

Village Project No. ST-04-06

Village of Lombard Department of Public Works

GEOTECHNICAL GROUP
CAROL STREAM

February 3, 2004
L - 59,301

PAVEMENT AND SUBGRADE INVESTIGATION
MAIN STREET IMPROVEMENTS
Ann Street to Central Avenue
VILLAGE OF LOMBARD
VILLAGE PROJECT NO.: ST-04-06

PREPARED FOR:
VILLAGE OF LOMBARD
DEPARTMENT OF PUBLIC WORKS
1051 SOUTH HAMMERSCHMIDT AVENUE
LOMBARD, ILLINOIS 60148

PREPARED BY:
TESTING SERVICE CORPORATION
457 EAST GUNDERSEN DRIVE
CAROL STREAM, ILLINOIS 60188
(630) 653-3920

TABLE OF CONTENTS

February 2, 2004
L - 59,301

PAVEMENT AND SUBGRADE INVESTIGATION
MAIN STREET IMPROVEMENTS
Ann Street to Central Avenue
VILLAGE OF LOMBARD
VILLAGE PROJECT NO.: ST-04-06

1.0 INTRODUCTION

This report presents results of the soils investigation performed for the improvements to Main Street within the Village of Lombard. These geotechnical services were provided in accordance with the TSC Proposal No. 30,047 dated October 27, 2003 and the terms and conditions agreed upon under the Year 2004 Geotechnical Contract.

The project site is located along the west side of Main Street and will extend from 100 feet south of Ann Street to 350 feet north of Central Avenue, a distance of about 1500 lineal feet. It is our understanding that the improvements will include 10-15 feet of widening on the west side of Main, pavement resurfacing, as well as possibly utility construction.

This report presents results of the field investigation and laboratory testing and provides recommendations for design and construction of the street improvements. Specifically addressed are treatment of unsuitable or unstable subgrade soil types as well as considerations for sewer construction.

2.0 FIELD INVESTIGATION AND LABORATORY TESTING

Six (6) soil borings and two (2) pavement cores were performed for this study. The spacing interval between borings was between 200 and 320 feet. Reference is made to the Boring Location Plan included in the Appendix for the drilling layout.

Each of the borings was drilled to a depth of 10 feet. Soil sampling was performed at continuous intervals to 5 feet and then at 2.5 foot intervals. These soil samples were taken in conjunction with the Standard Penetration Test, for which driving resistance to a 2" split-spoon sampler (N value in blows per 6" interval) provides an indication of the relative density of granular materials and consistency of cohesive soils. Water level readings were taken during and following completion of drilling operations. The bore holes were immediately backfilled and patched with asphalt to preclude possible hazards to the public.

Soil samples were examined in the laboratory to verify field descriptions and to classify them in accordance with a standard textural system and the AASHTO Soil Classification System. Laboratory testing included moisture content determinations for all cohesive and intermediate (silt or loamy) soil types. An estimate of unconfined compressive strength was obtained for cohesive samples using a calibrated hand penetrometer.

An Illinois Bearing Ratio (IBR) and Standard Proctor test were performed on a representative subgrade sample taken from Boring 3. These test results are presented in the Appendix on appropriate test data sheets.

Reference is made to the boring logs in the Appendix which indicate subsurface stratigraphy and soil descriptions, results of field and laboratory tests, as well as water level observations. Definitions of descriptive terminology are also included. While strata changes are shown as a definite line on the boring logs, the actual transition between soil layers will probably be more gradual. The pavement measurements should be considered approximate due to disturbance created by augering procedures.

3.0 DISCUSSION OF TEST DATA

3.1 Pavement Composition

Boring 1 was performed on the south end of the project, nearest to IL 38 (Roosevelt Road.) It encountered approximately 12 inches bituminous concrete underlain by about 6 inches of crushed gravel materials.

Borings 4, 5 and 6 were drilled through the existing pavement. Each boring encountered approximately 7 to 8 inches of bituminous concrete underlain by about 6 to 7 inches of crushed stone materials. Cores were also taken adjacent to the locations of Borings 3 and 5. The results are summarized in the following table.

CORE 3A	Main Street Station 91+20, 42 FT. LT.	
Pavement Thickness (Inches)	1.7	Bituminous Surface Course
	5.5	Bituminous Binder Course
	7.2	**Total Pavement Thickness**
Subgrade		

CORE 5A	Main Street Station 97+00, 44 FT. LT.	
Pavement Thickness (Inches)	2.5	Bituminous Surface Course
	4.0	Bituminous Surface Course (Petromat noted between lifts)
	6.5	**Total Pavement Thickness**
Subgrade		

3.2 Subgrade Soil

Black Sandy Loam or Silty Clay, likely representing topsoil materials, were found extending to depths of 2.5 and 3 feet in Borings 5 and 6, respectively. These topsoil materials exhibited moisture contents of 18 to 25 percent. Fill consisting of miscellaneous black Sand and Cinders was found extending to a depth of 1 foot in Boring 3.

Fill consisting of Sandy Loam, crushed stone, and Clay was found extending to a depth of approximately 6 feet below existing grade in Boring 2. At depths between 4.5 and 6 feet, the fill was very moist, exhibited an unconfined compressive strength of 1.0 ton per square foot (tsf) at a moisture content of 28 percent and a dry unit weight of 92 pounds per cubic foot (pcf).

The project soils otherwise consisted of Clay or Clay Loam of low to medium plasticity. These cohesive materials exhibited unconfined compressive strengths of 1.0 to 4.9 tsf at moisture contents of 16 to 25 percent.

3.3 Groundwater Observations

All of the soil borings were "dry" during the drilling operation with no free groundwater being encountered. Please note that 24 hour water level observations were not taken for this study due to "open hole" hazards and concerns for public safety. The actual phreatic surface may have been intercepted by the bore holes even though "dry" groundwater observations were made.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Subgrade Support Value for Pavement Design

A representative subgrade sample from Boring 3 has been tested for Illinois Bearing Ratio (IBR) in order to determine a subgrade support value for pavement design. An IBR value of 2.0 was obtained from the laboratory remolded and soaked samples.

The IBR value used for pavement design is typically based on the worst soil type (lowest IBR) within the limits of the project. Based on these data and soil conditions encountered in the remaining borings, an IBR value of no greater than 2.0 is recommended for pavement design. This value represents a typical design bearing value for cohesive subgrade soils in the Chicago area.

4.2 Resurfacing

With regard to the pavement resurfacing, it is assumed that normal IDOT procedures will be followed, to include any necessary sawcutting to remediate distressed pavement areas.

4.3 Stripping Unsuitable Soils

Borings 5 and 6 encountered black Sandy Loam or Silty Clay (topsoil) in the upper subgrade. These topsoil materials exhibited unconfined compressive strengths of 2.5 tsf at moisture contents of 18 to 25 percent. Sandy Loam Fill with trace organic content was also encountered at the surface of Boring 2. If any organic soil is exposed during subgrade preparation, it should be considered unsuitable with specific requirements for removal and replacement when it is located within 1.0 foot of proposed subgrade level. Black organic soil encountered greater than 1.0 foot below subgrade level should only be removed and replaced as required to correct pumping and rutting conditions. Black Sand and Cinder Fill encountered at the surface of Boring 3 is also considered unsuitable and should be removed during stripping operations.

Replacement Fill for stripping and undercut areas may consist of "suitable earth borrow" provided the underlying soils are in a relatively firm and stable condition. Crushed aggregate Fill will be required in areas of unstable pumpy subgrade. Suitable earth borrow may consist of inorganic Clay having low to moderate plasticity or well-graded granular materials. Intermediate soils such as silt, very sandy clay or other "loamy" soil types are not recommended for upper zones of subgrade. Please note that suitable earth borrow would also require moisture contents within about 2 to 3 percent of optimum (per AASHTO T-99) so that they may be well compacted per project specifications.

4.4 Guidelines for Subgrade Remediation

Remedial work for unstable subgrade would consist of discing, drying and recompacting exposed soils, as provided for in Article 301.03 of the IDOT Standard Specifications. Compaction for subgrade materials should be to at least 95 percent Standard Proctor density (AASHTO T-99). This compaction requirement should also be specified for any

new fill placed within pavement subgrade. Solutions to a persistent pumping problem may include use of a geotextile fabric, removal of unsuitable soils and replacement with granular fill, or a combinations thereof.

Aggregate fill may be required for bridging over weak subgrade soils which demonstrate persistent stability problems. Aggregate materials needed for undercut areas may consist of the IDOT Porous Granular Embankment-Subgrade (PGES). A specification sheet for the aggregate gradation and placement procedures for this material is included in the Appendix of this report.

4.5 Estimated Quantities for Stripping and Aggregate Fill

The proposed pavement section was not available for preparation of this report. However, based on information provided by Civiltech, it is assumed to be a full-depth asphalt pavement ranging from 10 to 16 inches thick. With little to no change in grade planned, subgrade is therefore assumed to be 0.8 to 1.3 feet feet below existing.

Based on the soil test data obtained from each boring, it is estimated that three (3) boring locations may require undercutting the subgrade to remediate potentially unstable conditions or otherwise replace black topsoil materials. This represents the northern half of the project. It is recommended that contract quantities include 12 inches undercutting and PGES materials at the following locations.

Estimated Locations for Undercutting and 12" PGES: **Borings 4, 5 and 6**

The need for undercutting and replacement aggregate Fill should be based on direct observations made during construction once the subgrade soils are exposed and proof-rolled. Soft or loose areas may be tested with a cone penetrometer in accordance with the IDOT Subgrade Stability manual to help determine the remedial treatment depths.

This subgrade stability will be significantly influenced by the season of construction, prevailing temperature and precipitation as well as surface drainage provided by the contractor. The above estimates for replacement of granular Fill are for the determination of contract quantities only. Some areas may require greater or lesser amounts of

replacement fill due to the indicated factors which can influence upgrade stability. All quantities of granular fill materials not required during construction should be deleted from the construction costs.

4.6 Underdrain Placement

Wherever possible, it is best to install transverse underdrains at the low points of undercut areas where an open-graded coarse aggregate backfill is placed, such as the PGES materials. Maximum spacing between transverse underdrains should be about 200 to 300 feet within these materials and also at the low point of the roadway profiles.

All underdrains should outlet into ditches or storm sewers in such manner as to allow positive drainage. It is best to install the underdrains at a depth of at least 36 inches below proposed pavement grade. The underdrains should be installed in accordance with Check Sheet 26 of the IDOT Recurring Special Provisions, which require a fabric wrapped trench and modified CA-16 aggregate backfill.

4.7 Underground Utility Construction

It is our understanding that sewer or water main improvements are included in the proposed construction. However, TSC has not been furnished plan or profile sheets which show these new utilities. The following discussion addresses the basic concerns for this work or any other underground construction.

Relatively soft cohesive or marginally competent cohesive soils with strength values less than 1.25 tsf were encountered at possible invert elevations in Borings 2 and 6. These materials will be unstable during trenching and may need a thickened layer of granular bedding.

A thickened granular bedding layer may be required where pipe inverts lie within relatively weak cohesive soil (Q_p<1.25 tsf) or granular soils which are not fully dewatered. If the trench bottom is considered unstable, 12 to 18 inches of additional granular bedding may be placed to provide a satisfactory base for pipe installation.

Open excavations may require protective measures for laborers or adjacent structures which may be affected by sloughing soil conditions. Protective measures should include the use of safety trench boxes, sheeting and bracing, or other appropriate methods. In this regard, the Contractor must be responsible for meeting OSHA requirements, local regulations and/or project specifications with respect to the safety of his work force.

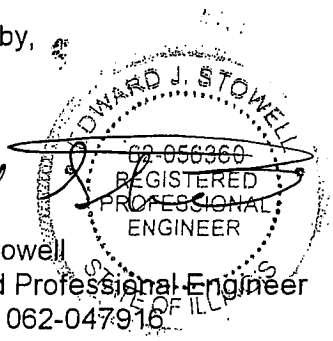
5.0 CLOSURE

The analysis and recommendations submitted in this report are based upon the data obtained from the six (6) soil borings and two (2) pavement cores performed at the locations indicated on the Boring Location Plan. This report does not reflect any variations which may occur between these borings, the nature and extent of which may not become evident until during the course of construction. If variations are then identified, recommendations contained in this report should be re-evaluated after performing on-site observations.

We are available to review this report with you at your convenience.

Prepared by,

Charles R. DuBose, P.E.
Vice President



Edward Stowell
Registered Professional Engineer
Illinois No. 062-047916

L-59,301

APPENDIX

SOIL TEXTURAL CLASSIFICATION SYSTEM

AASHTO SOIL CLASSIFICATION SYSTEM

LEGEND FOR BORING LOGS

SPECIFICATIONS FOR "POROUS GRANULAR EMBANKMENT, SUBGRADE"

IBR DATA SHEET

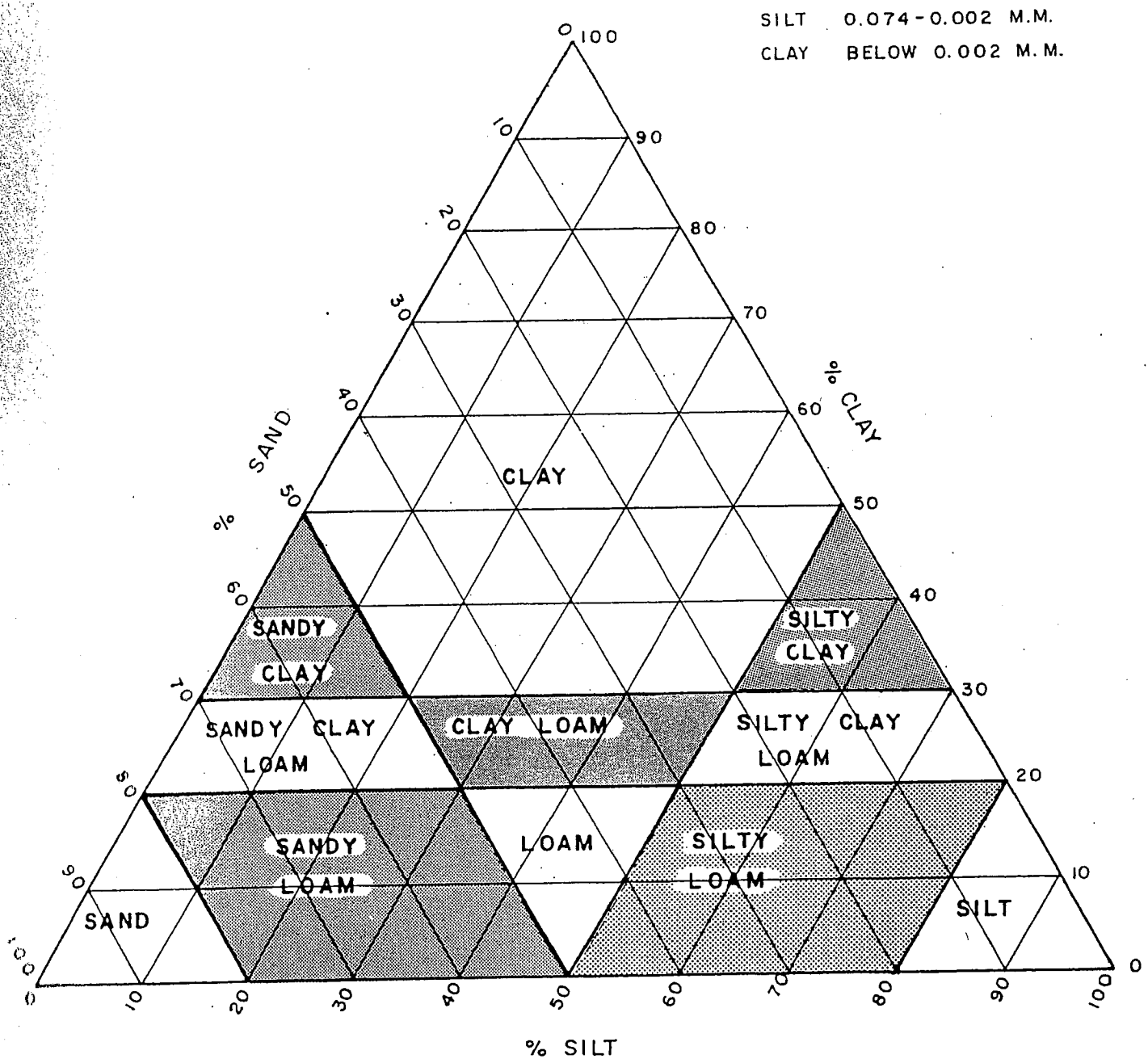
MOISTURE-DENSITY RELATIONSHIP CURVE FOR STANDARD PROCTOR

BORING LOGS (6)

BORING LOCATION PLAN

I D H TEXTURAL CLASSIFICATION CHART

SIZE LIMITS		
SAND	2.0 - 0.074	M.M.
SILT	0.074 - 0.002	M.M.
CLAY	BELOW 0.002	M.M.

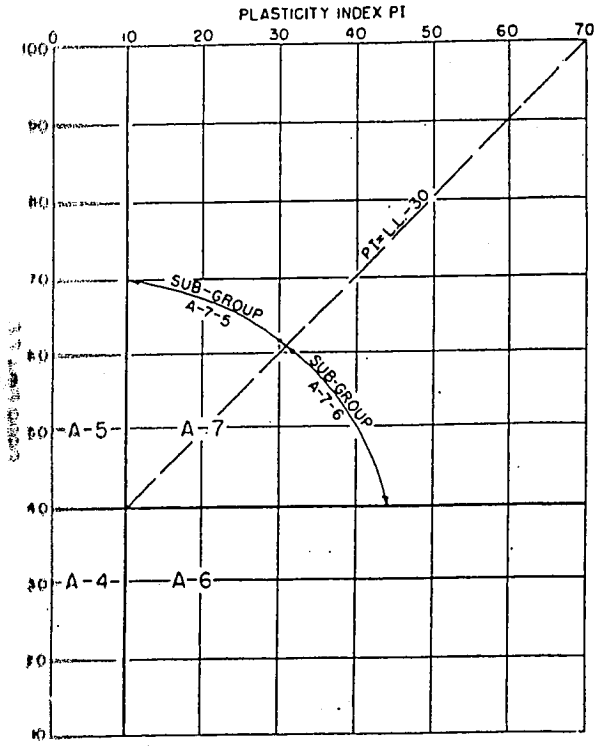


TESTING SERVICE CORPORATION
AASHTO CLASSIFICATION CHART

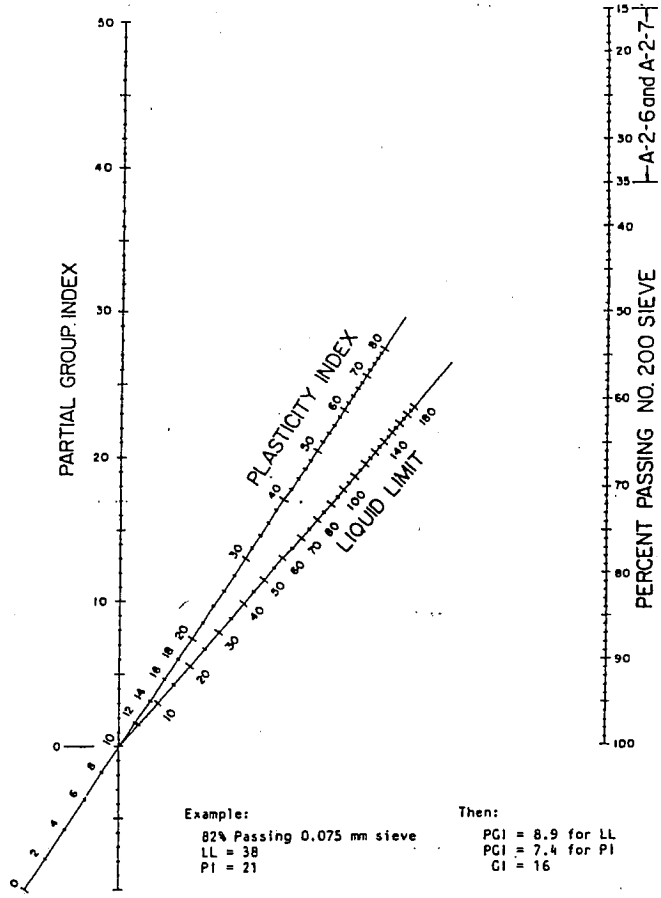
Group Index (GI) = (F-35)[0.2+0.005 (LL-40)]+0.01(F-15)(PI-10)
where F = % Passing 0.075 mm sieve, LL = Liquid Limit,
and PI = Plasticity Index

When working with A-2-6 and A-2-7 subgroups the Partial Group Index (PGI) is determined from the PI only.

When the combined Partial Group Indices are negative, the Group Index should be reported as zero.



Liquid Limit and Plasticity Index Ranges for the A-4, A-5, A-6 and A-7 Subgrade Groups



Example:
82% Passing 0.075 mm sieve
LL = 38
PI = 21

Then:
PGI = 8.9 for LL
PGI = 7.4 for PI
GI = 16

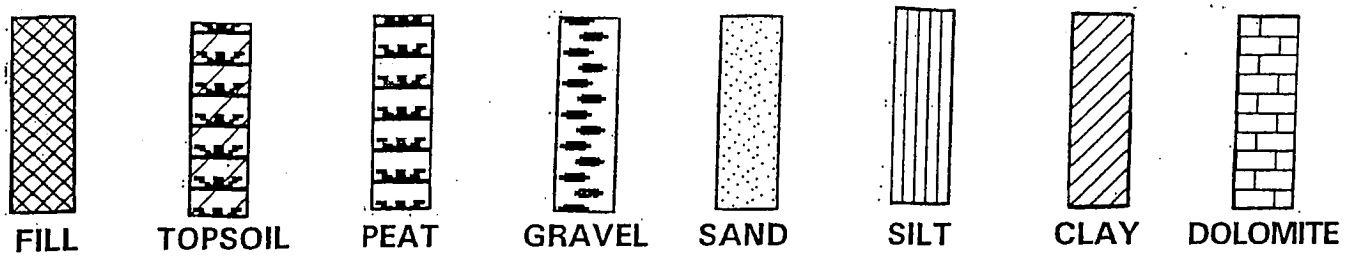
AASHTO SOIL CLASSIFICATION SYSTEM

General Classification	Granular Materials (35% or less passing No. 200)							Silt-Clay Materials (more than 35% passing No. 200)			
	A-1			A-2							A-7
Group Classification	A-1-a	A-1-b	A-3	A-2-4	A-2-5	A-2-6	A-2-7	A-4	A-5	A-6	A-7-5, A-7-6
Sieve analysis, % passing: No. 10	50 max	.....	.....	.....	.....	.....	.....	.....	.....	.....	
No. 40	30 max	50 max	51 min	.....	.....	.....	.....	.....	.....	.....	
No. 200	15 max	25 max	10 max	35 max	35 max	35 max	35 max	36 min	36 min	36 min	36 min
Characteristics of fraction passing No. 40: Liquid limit	.....		.....	40 max	41 min	40 max	41 min	40 max	41 min	40 max	41 min
Plasticity index	6 max		N.P.	10 max	10 max	11 min	11 min	10 max	10 max	11 min	11 min†
Usual types of significant constituent materials	Stone fragments, gravel and sand		Fine sand	Silty or clayey gravel and sand				Silty soils		Clayey soils	
General rating as subgrade	Excellent to good					Fair to poor					

† Plasticity index of A-7-5 subgroup is equal to or less than LL minus 30. Plasticity index of A-7-6 subgroup is greater than LL minus 30.

TESTING SERVICE CORPORATION

LEGEND FOR BORING LOGS



SAMPLE TYPE:

SS = Split Spoon
ST = Thin-Walled Tube
A = Auger

FIELD AND LABORATORY TEST DATA:

N = Standard Penetration Resistance in Blows per 6 inch Interval
Wc = In-Situ Water Content
Qu = Unconfined Compressive Strength in Tons per Square Foot
* Pocket Penetrometer Measurement; Maximum Reading = 4.5 tsf
γD = Dry Unit Weight in Pounds per Cubic Foot

WATER LEVELS:

▼ While Drilling
▽ End of Boring
▼ 24 Hours

SOIL DESCRIPTION:

MATERIAL	PARTICLE SIZE RANGE
BOULDER	Over 12 inches
COBBLE	12 inches to 3 inches
Large GRAVEL	3 inches to ¾ inch
Small GRAVEL	¾ inch to No. 4 Sieve
Coarse SAND	No. 4 Sieve to No. 10 Sieve
Medium SAND	No. 10 Sieve to No. 40 Sieve
Fine SAND	No. 40 Sieve to No. 200 Sieve
SILT and CLAY	Passing No. 200 Sieve

COHESIVE SOILS

CONSISTENCY	Qu
Very Soft	Less than 0.3
Soft	0.3 to 0.6
Stiff	0.6 to 1.0
Tough	1.0 to 2.0
Very Tough	2.0 to 4.0
Hard	4.0 and over

COHESIONLESS SOILS

RELATIVE DENSITY	N
Very Loose	0 - 4
Loose	4 - 10
Firm	10 - 30
Dense	30 - 50
Very Dense	50 and over

MODIFYING TERM	PERCENT BY WEIGHT
Trace	1 - 10
Little	10 - 20
Some	20 - 35

POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES)

This work consists of furnishing, placing, and compacting porous granular material to the lines and grades shown on the plans or as directed by the Engineer in accordance with applicable portions of Section 207 of the Standard Specifications. The material shall be used as a bridging layer over soft, pumpy, loose soil and for placing under water and shall conform with Article 1004.06 of the Standard Specifications except the gradation shall be as follows:

1. Crushed Stone, Crushed Blast Furnace Slag, and Crushed Concrete

Sieve Size	Percent Passing
* 150 mm (*6 inches)	97 ± 3
* 100 mm (*4 inches)	90 ± 10
50 mm (2 inches)	45 ± 25
75 um (#200)	5 ± 5

2. Gravel, Crushed Gravel and Pit Run Gravel

Sieve Size	Percent Passing
* 150 mm (*6 inches)	97 ± 3
* 100 mm (*4 inches)	90 ± 10
50 mm (2 inches)	55 ± 25
4.75 mm (#4)	30 ± 20
75 um (#200)	5 ± 5

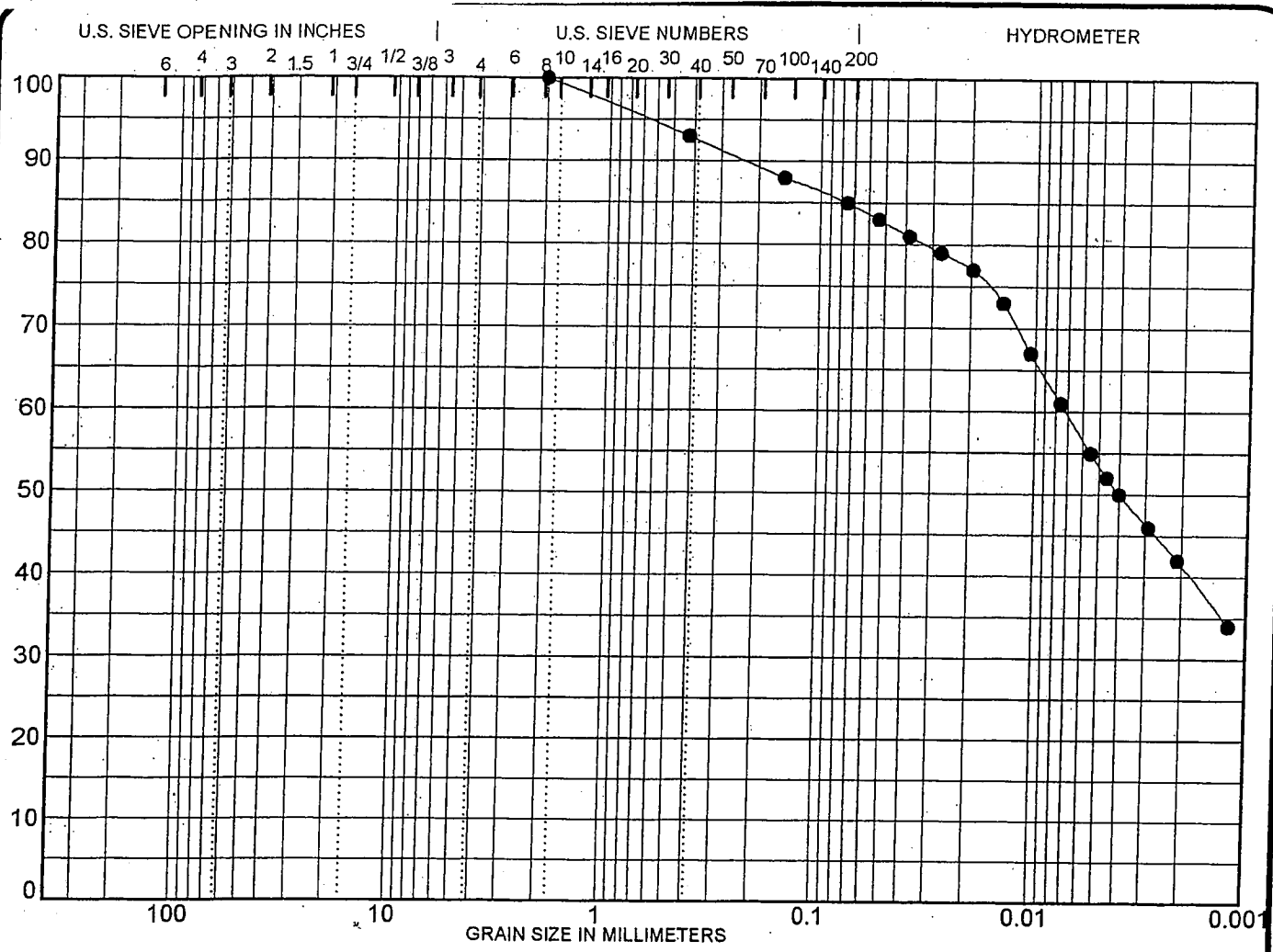
* For undercuts greater than 450 mm (18 inches) the percent passing the 150 mm (6 inches) sieve may be 90 ± 10 and the 100 mm (4 inches) sieve requirement eliminated.

The porous granular material shall be placed in one lift when the total thickness to be placed is 600 mm (2 feet) or less or as directed by the Engineer. Each lift of the porous granular material shall be rolled with a vibratory roller meeting the requirements of Article 1101.01 of the Standard Specifications to obtain the desired keying or interlock and compaction. The Engineer shall verify that adequate keying has been obtained.

A 75 mm (3 inches) nominal thickness top lift of capping aggregate having a gradation of CA-6 will be required when Aggregate Subgrade is not specified in the contract and Porous Granular Embankment, Subgrade will be used under the pavement and shoulders. Capping aggregate will not be required when embankment meeting the requirements of Section 207 of the Standard Specifications or granular subbase is placed on top of the porous granular material.

Construction equipment not necessary for the completion of the replacement material will not be allowed on the undercut areas until completion of the recommended thickness of the porous granular embankment subgrade.

Full depth subgrade undercut should occur at limits determined by the Engineer. A transition slope to the full depth of undercut shall be made outside of the undercut limits at a taper of 300 mm (1 foot) longitudinal per 25 mm (1 inch) depth below the proposed subgrade or bottom of the proposed aggregate subgrade when included in the contract.



AASHTO	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

SPECIMEN IDENTIFICATION

Boring: 3

Depth: 2.0'-4.0'

	A	B
Molded Moist %	16.7	15.9
Compaction %	99.8	100.5
Swell %	2.0	2.5
Soaked: Surface %	23.9	24.0
: Center %	20.1	20.4

CLASSIFICATION

HRB & GROUP INDEX :	A-6(18)
GRAIN SIZE :	CLAY
UNIFIED :	CL

%GRAVEL	%SAND	%SILT	%CLAY
0	15	44	41

Atterberg Limits

LL	PL	PI
37	15	22

Standard Moisture/Density T99

Max γ_{Wet}	Max γ_{Dry}	Opt MC%
129.9	111.5	16.5

SIEVE	% PASS
3 inch	100
2	100
1 1/2	100
1	100
3/4	100
3/8	100
# 4	100
# 10	100
# 40	93
# 100	88
# 200	85

BEARING RATIO VALUES

0.1" Penetration	1.7	2.1
0.2" Penetration	2.0	2.2
0.3" Penetration	2.2	2.3
0.4" Penetration	2.1	2.2
0.5" Penetration	2.0	2.3
Illinois Bearing Ratio Value:		2.0

PROJECT Main Street STP
LOCATION Lombard, Illinois

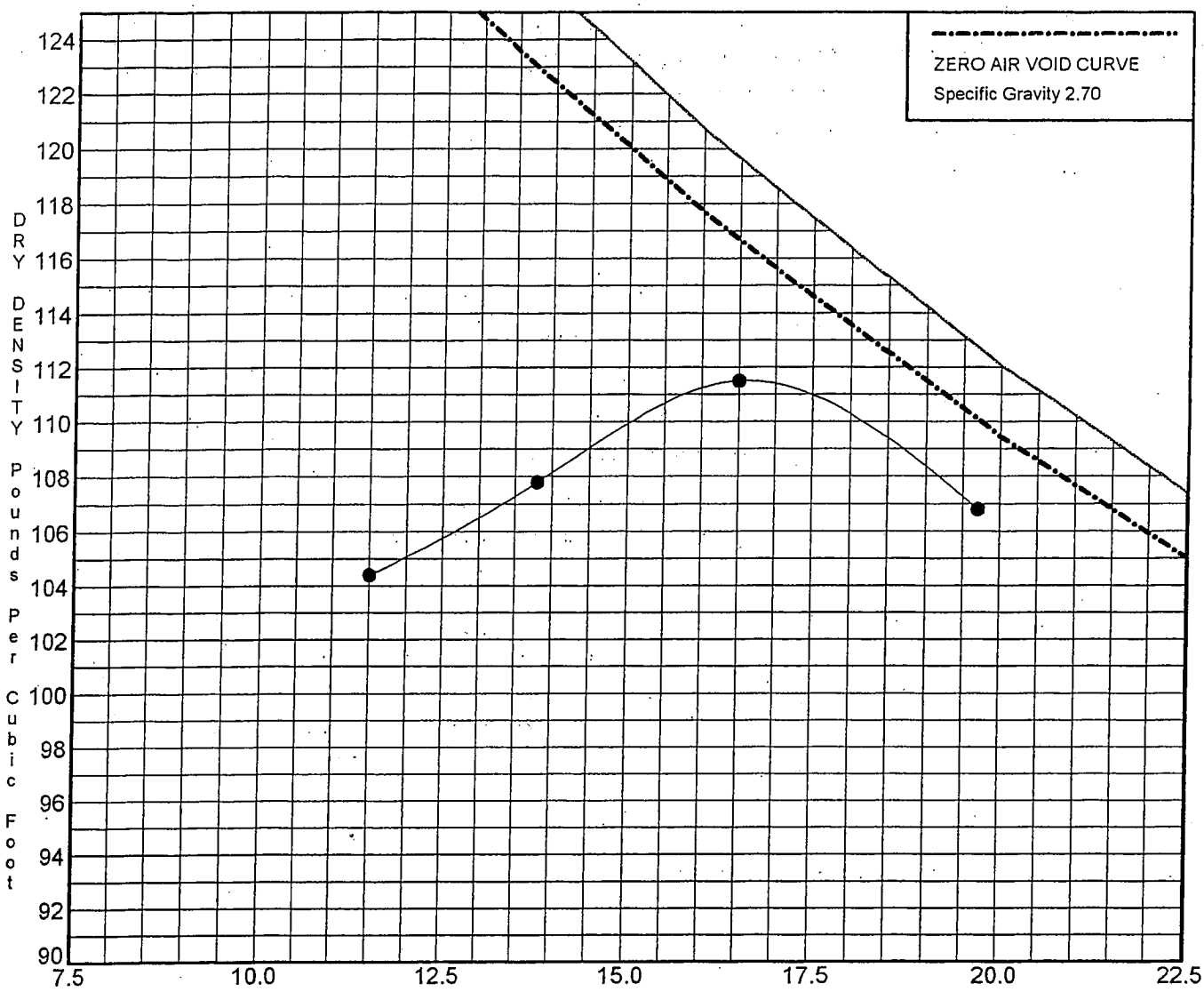
JOB NO. L-59,301
DATE November 19, 2003

3

IBR DATA SHEET

Testing Service Corporation
Carol Stream, IL 60188

IBR NEW2 59301.GPJ TSC ALL.GDT 11/20/03



SPECIMEN IDENTIFICATION	SOIL CLASSIFICATION
Boring: 3	Brown CLAY, A-6(18), CL
Depth: 2.0'-4.0'	

MOISTURE/DENSITY RELATIONSHIP		NOTES :
X	Standard ASTM D698/AASHTO T99	
	Modified ASTM D1557/AASHTO T180	
Maximum Dry Density (PCF)	**111.5**	
Optimum Water Content (%)	**16.5**	

PROJECT **Main Street STP** JOB NO. **L-59,301**

LOCATION **Lombard, Illinois** DATE **November 19, 2003**

3

MOISTURE-DENSITY RELATIONSHIP

Testing Service Corporation

Carol Stream, IL 60188

PROCTORS 59301.GPJ TSC ALL.GDT 11/19/03

PROJECT Main Street STP (b/w Wilson & Roosevelt), Project ST-04-06, Lombard, Illinois

CLIENT Village of Lombard - Public Works, Lombard, Illinois

BORING 1 DATE STARTED 11-13-03 DATE COMPLETED 11-13-03 JOB L-59,301

ELEVATIONS

GROUND SURFACE

END OF BORING

Sta. 85+97; 47' LT

WATER LEVEL OBSERVATIONS

▼ WHILE DRILLING Dry

▽ AT END OF BORING Dry

▼ 24 HOURS

LENGTH RECOVERY	SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0		12" Bituminous Concrete**
							1.0		6" Crushed Gravel, trace to little fines**
	1	SS	5-7 7-4	17.6	4.5+*	111.8	1.5		FILL - Brown CLAY LOAM, trace gravel, trace organic, moist A-6
	2	SS	5-5 6-6	16.4	4.00 3.5*		3.0		Very tough to hard brown to brown and gray CLAY LOAM, trace gravel, moist A-6
	3	SS	5- 6-7	17.7	4.86 4.5+*		8.0		Very tough gray CLAY LOAM, trace gravel, moist A-6
	4	SS	5- 6-7	16.7	3.75*		10		End of Boring at 10.0'

DISTANCE BELOW SURFACE IN FEET

0 5 10 15 20

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

** - Approximated from disturbed sides of augered borehole.

DRILL RIG NO. 256

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

TSC2 59301.GPJ TSC_ALL.GDT 2/3/04

PROJECT Main Street STP (b/w Wilson & Roosevelt), Project ST-04-06, Lombard, Illinois

CLIENT Village of Lombard - Public Works, Lombard, Illinois

BORING 2 DATE STARTED 11-13-03 DATE COMPLETED 11-13-03 JOB L-59,301

ELEVATIONS

GROUND SURFACE

END OF BORING

Sta. 88+05; 53' LT

WATER LEVEL OBSERVATIONS

▼ WHILE DRILLING Dry

▽ AT END OF BORING Dry

▼ 24 HOURS

LENGTH RECOVERY	SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
	A			11.6	1.25*	116.7			FILL - Black and gray SANDY LOAM, trace organic, very moist (A-6)
	1	SS	3-3 4-2				1.3		
	B			7.3					FILL - Crushed Stone, trace fines
							2.0		
	2	SS	3-4 3-5	20.3	4.5+*	108.8			FILL - Brown, gray and black CLAY, trace organic, moist A-6/A-7-6
							4.5		
	3	SS	2-2 3-3	28.4	1.0*	92.4			FILL - Brown and gray CLAY, very moist A-7-6
							6.0		
	4	SS	4- 5-6	16.2	4.5+*				Hard to very tough brown and gray CLAY LOAM, trace gravel, moist A-6
	5	SS	5- 6-6	19.9	2.88 3.25*				
									End of Boring at 10.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

** - Approximated from disturbed sides of augered borehole.

DISTANCE BELOW SURFACE IN FEET

0 5 10 15 20

DRILL RIG NO. 256

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

TSC2 59301.GPJ TSC_ALL.GDT 2/3/04

PROJECT Main Street STP (b/w Wilson & Roosevelt), Project ST-04-06, Lombard, Illinois

CLIENT Village of Lombard - Public Works, Lombard, Illinois

BORING 3 DATE STARTED 11-13-03 DATE COMPLETED 11-13-03 JOB L-59,301

ELEVATIONS

GROUND SURFACE

END OF BORING

Sta. 91+20; 53' LT

WATER LEVEL OBSERVATIONS

▼ WHILE DRILLING Dry

▽ AT END OF BORING Dry

▼ 24 HOURS

LENGTH RECOVERY	SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
	A								FILL - Black SAND and CINDERS
	1	SS	5-5				1.0		
	B		3-2	18.7	4.5+*				
	2	SS	5-5 6-6	18.8	4.46 4.0*				Very tough to hard brown CLAY/CLAY LOAM, trace gravel, moist A-6
	3	SS	2- 4-4	17.8	3.41 3.75*				
	4	SS	5- 7-7	16.6	4.5+*		8.0		
	5	SS	5- 6-8	19.0	2.5*				Very tough brown and gray CLAY LOAM, trace gravel, moist A-6
									End of Boring at 10.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

** - Approximated from disturbed sides of augered borehole.

DISTANCE BELOW SURFACE IN FEET

0 5 10 15 20

DRILL RIG NO. 256

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

TSC2 59301.GPJ TSC_ALL.GDT 2/3/04

PROJECT Main Street STP (b/w Wilson & Roosevelt), Project ST-04-06, Lombard, Illinois

CLIENT Village of Lombard - Public Works, Lombard, Illinois

BORING 4 DATE STARTED 11-13-03 DATE COMPLETED 11-13-03 JOB L-59,301

ELEVATIONS

GROUND SURFACE

END OF BORING

Sta. 94+00; 55' LT

WATER LEVEL OBSERVATIONS

▼ WHILE DRILLING Dry

▽ AT END OF BORING Dry

▼ 24 HOURS

LENGTH RECOVERY	SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0		7½" Bituminous Concrete**
							0.6		6½" Crushed Stone**
							1.2		
	1	SS	4-4 5-6	24.2	2.07 2.0*				Very tough brown and gray CLAY, trace gravel, moist A-7-6/A-6
	2	SS	4-4 5-5	18.5	3.67 3.5*				
							5.5		
	3	SS	5- 5-6	18.2	4.5+*				Hard brown CLAY LOAM, trace gravel, moist A-6
	4	SS	5- 7-8	18.8	4.59 4.5*				
									End of Boring at 10.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

** - Approximated from disturbed sides of augered borehole.

DISTANCE BELOW SURFACE IN FEET

0 5 10 15 20

DRILL RIG NO. 256

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

TSC2 59301.GPJ TSC_ALL.GDT 2/3/04

PROJECT Main Street STP (b/w Wilson & Roosevelt), Project ST-04-06, Lombard, Illinois

CLIENT Village of Lombard - Public Works, Lombard, Illinois

BORING 5 DATE STARTED 11-13-03 DATE COMPLETED 11-13-03 JOB L-59,301

ELEVATIONS

GROUND SURFACE

END OF BORING

Sta. 97+00; 55' LT

WATER LEVEL OBSERVATIONS

WHILE DRILLING Dry

AT END OF BORING Dry

24 HOURS

LENGTH RECOVERY	SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0.7		8" Bituminous Concrete**
							1.3		7" Crushed Limestone**
	A			18.3	2.5*	110.8			Black SANDY LOAM (topsoil), moist A-7-5
	1	SS	5-5 4-4						
	B			17.0	3.75*		2.5		
	2	SS	3-3 4-3	19.0	1.30 1.5*				Very tough to tough brown CLAY, moist to very moist A-6
							5.5		
	3	SS	5- 5-6	18.0	3.87 4.5+*				Very tough brown and gray CLAY LOAM/CLAY, moist A-6/A-7-6
	4	SS	4- 4-6	21.8	2.22 2.5*				
									End of Boring at 10.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

** - Approximated from disturbed sides of augered borehole.

DISTANCE BELOW SURFACE IN FEET

0 5 10 15 20

DRILL RIG NO. 256

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

TSC2 59301.GPJ TSC_ALL.GDT 2/3/04

PROJECT Main Street STP (b/w Wilson & Roosevelt), Project ST-04-06, Lombard, Illinois

CLIENT Village of Lombard - Public Works, Lombard, Illinois

BORING 6 DATE STARTED 11-13-03 DATE COMPLETED 11-13-03 JOB L-59,301

ELEVATIONS

GROUND SURFACE

END OF BORING

Sta. 100+00; 54' LT

WATER LEVEL OBSERVATIONS

▼ WHILE DRILLING Dry

▽ AT END OF BORING Dry

▼ 24 HOURS

LENGTH RECOVERY	SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							0		7" Bituminous Concrete**
							0.6		6" Crushed Limestone**
							1.1		Black SILTY CLAY (topsoil), moist A-7-5
	1	SS	4-4 5-6	25.3	2.5*				
							3.0		
	2	SS	2-3 3-4	25.2	1.56 1.5*				Tough brown and gray CLAY, moist to very moist A-7-6/A-6
	3	SS	3- 3-4	18.8	1.20 1.5*				
							8.0		Tough to very tough gray CLAY LOAM, trace gravel, moist A-6
	4	SS	4- 5-6	15.4	2.0*				
									End of Boring at 10.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

** - Approximated from disturbed sides of augered borehole.

DISTANCE BELOW SURFACE IN FEET

0 5 10 15 20

DRILL RIG NO. 256

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

Illinois Department of Transportation

Storm Water Pollution Prevention Plan

Route FAU 2611 Marked Main Street

Section 03-000148-00-PV Project No. M-8003(521)

County Dupage

This plan has been prepared to comply with the provisions of the NPDES Permit Number ILR10, issued by the Illinois Environmental Protection Agency for storm water discharges from Construction Site Activities.

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.

Signature

Nov. 26, 2007
Date

PROJECT ENGINEER
Title

1. Site Description

a. The following is a description of the construction activity which is the subject of this plan (use additional pages, as necessary):

This is a roadway widening and resurfacing project, and the work to be performed under this contract consists of earth excavation and pavement removal, construction of storm sewers, and drainage structures, water main removal and replacement, combination concrete curb and gutter, hot-mix asphalt binder and surface courses, driveway reconstruction, concrete sidewalks, traffic signal modernization, sodding and all incidental and collateral work necessary to complete the project as shown on the plans and as described herein.

b. The following is a description of the intended sequence of major activities which will disturb soils for major portions of the construction site, such as grubbing, excavation and grading (use additional pages, as necessary):

Pre-Stage 1 - Installation of Storm Sewer and Drainage Structures, Sanitary Sewer and Structures and Water Main and Valve Vaults.

Stage 1 - Curb and Gutter Replacement, Earth Excavation, Subgrade Preparation, Driveway Replacement, Sidewalk Replacement and Placement of Topsoil and Sod on the West side of the Road.

Stage 2 - Curb and Gutter Replacement, Earth Excavation, Subgrade Preparation, Driveway Replacement, Sidewalk Replacement and Placement of Topsoil and Sod on the East side of the Road.

c. The total area of the construction site is estimated to be 5 acres.

The total area of the site that it is estimated will be disturbed by excavation, grading or other activities is 2 acres.

d. The estimated runoff coefficients of the various areas of the site after construction activities are completed are contained in the project drainage study which is hereby incorporated by reference in this plan. Information describing the soils at the site is contained either in the Soils Report for the project, which is hereby incorporated by reference, or in an attachment to this plan.

e. The design/project report, hydraulic report, or plan documents, hereby incorporated by reference, contain site map(s) indicating drainage patterns and approximate slopes anticipated after major grading activities, areas of major soil disturbance, the location of major structural and nonstructural 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 a surface water.

f. The names of receiving water(s) and areal extent of wetland acreage at the site are in the design/project report or plan documents which are incorporated by reference as a part of this plan.

2. Controls

This section of the plan addresses the various controls that will be implemented for each of the major construction activities described in 1.b. above. For each measure discussed, the contractor that will be responsible for its implementation is indicated. Each such contractor has signed the required certification on forms which are attached to, and a part of, this plan:

a. Erosion and Sediment Controls

(i) 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: temporary seeding, permanent seeding, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, preservation of mature vegetation, and other appropriate measures. Except as provided in 2.a.(i).(A) and 2.b., stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased on all disturbed portions of the site where construction activity will not occur for a period of 21 or more calendar days.

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

Description of Stabilization Practices (use additional pages, as necessary):

Temporary Measures:

Perimeter Erosion Barrier
Sediment Control, Drainage Structure Inlet Filters
Temporary Erosion Control Seeding

Permanent Measures:

Sodding

(ii) **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 silt fences, earth dikes, drainage swales, sediment traps, check dams, 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.

Description of Structural Practices (use additional pages, as necessary):

Sediment Control, Drainage Structure Inlet Filters will be installed at each existing and proposed open grate storm sewer structure to prevent sediment from being carried off of the job site thru the newly constructed or existing storm sewer. The filters will be cleaned when directed by the Engineer in order to optimize the performance of the filters.

b. Storm Water Management

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

(I) Such practices may include: storm water detention structures (including wet ponds); storm water retention structures; flow attenuation by use of open vegetated swales and natural depressions; infiltration of runoff on site; and sequential systems (which combine several practices). **The practices selected for implementation were determined on the basis of the technical guidance in Section 10-300 (Design Considerations) in Chapter 10 (Erosion and Sedimentation Control) of the Illinois Department of Transportation Drainage Manual. If practices other than those discussed in Section 10-300 are selected for implementation or if practices are applied to situations different from those covered in Section 10-300, the technical basis for such decisions will be explained below.**

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

Description of Storm Water Management Controls (use additional pages, as necessary):

The proposed storm sewer will discharge into the existing storm sewer system. The sewers on Main Street are under the jurisdiction of the Village of Lombard. The slopes of the pipes have been designed to reduce the velocity of the storm water as much as possible without causing siltation within the pipes.

c. Other Controls

(i) Waste Disposal. No solid materials, including building materials, shall be discharged into Waters of the State, except as authorized by a Section 404 permit.

(ii) The provisions of this plan shall ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.

d. Approved State or Local Plans

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

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

All management practices, controls and other provisions provided in this plan are in accordance with IDOT Standard Specifications for Road and Bridge Construction and the Illinois Urban Manual. Specified procedures are shown on the Maintenance of Traffic and Erosion Corntrol.

3. Maintenance

The following is a description of procedures that will be used to maintain, in good and effective operating conditions, vegetation, erosion and sediment control measures and other protective measures identified in this plan (use additional pages, as necessary):

All erosion and sediment control measures will be checked weekly and after each significant rainfall. The following items will be checked:

1) Perimeter Erosion Barrier
2) Inlet Filters

All maintenance of the erosion and sediment control measures will be the Contractor's responsibility. All locations where vehicles enter and exit the construction site as well as all other areas subject to erosion will be inspected on a weekly basis and within 24 hours of a significant rainfall.

4. Inspections

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

a. Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off site sediment tracking.

b. Based on the results of the inspection, the description of potential pollutant sources identified in section 1 above and pollution prevention measures identified in section 2 above shall be revised as appropriate as soon as practicable after such inspection. Any changes to this plan resulting from the required inspections shall be implemented within 7 calendar days following the inspection.

c. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of this storm water pollution prevention plan, and actions taken in accordance with section 4.b. shall be made and retained as part of the plan for at least three (3) years after the date of the inspection. The report shall be signed in accordance with Part VI. G of the general permit.

d. If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Resident Engineer or Resident Technician shall complete and file an "Incidence of Noncompliance" (ION) report for the identified violation. The Resident Engineer or Resident Technician shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of noncompliance shall be signed by a responsible authority in accordance with Part VI. G of the general permit.

The report of noncompliance 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

5. Non-Storm Water Discharges

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

Illinois Department of Transportation

Contractor Certification Statement

This certification statement is a part of the Storm Water Pollution Prevention Plan for the project described below, in accordance with NPDES Permit No. ILR10, issued by the Illinois Environmental Protection Agency on May 14, 1998.

Project Information:

Route FAU 2611 Marked Main Street

Section 03-00148-00-PV Project No. M-8003(521)

County Dupage

I certify under penalty of law that I understand the terms of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR 10) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

Signature _____ Date _____

Title _____

Name of Firm _____

Street Address _____

City _____ State _____

Zip Code _____

Telephone Number _____

BDE 2342a

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
NOTICE OF INTENT (NOI)
GENERAL PERMIT TO DISCHARGE STORM WATER CONSTRUCTION SITE ACTIVITIES

OWNER INFORMATION

NAME:	LAST / FIRST / MIDDLE / (OR COMPANY NAME): Village of Lombard					OWNER TYPE: City	
MAILING ADDRESS:	1051 S. Hammerschmidt Avenue						
CITY:	Lombard			STATE: IL		ZIP: 60148	
CONTACT PERSON:	Mr. Ray Schwab			TELEPHONE NUMBER:	AREA CODE: 630	NUMBER: 620-5740	

CONTRACTOR INFORMATION

NAME:	LAST / FIRST / MIDDLE / (OR COMPANY NAME)			TELEPHONE NUMBER:	AREA CODE	NUMBER	
MAILING ADDRESS:		CITY:		STATE:		ZIP:	

CONSTRUCTION SITE INFORMATION

SELECT ONE:	☑ New Site ☐ CHANGE OF INFORMATION TO PERMIT NO. ~~ILR10~~ ILR400378												
FACILITY NAME:	FAU 2611 (Main Street) P# M-8003(521)					OTHER NPDES PERMIT NOS.:							
FACILITY LOCATION:	Roosevelt Road to Wilson Avenue					TELEPHONE NUMBER:	AREA CODE	NUMBER					
CITY:	Lombard	ST: IL	ZIP: 60148	LATITUDE:	41	51	50	LONGITUDE:	88	01	03		
COUNTY:	DuPage		SECTION:			TOWNSHIP: 39N		RANGE: 10E					
APPROX. CONST. START DATE:	/ /		APPROX. CONSTRUCTION END DATE:	/ /		TOTAL SIZE OF CONSTRUCTION SITE IN ACRES:							
STORM WATER POLLUTION PREVENTION PLAN COMPLETED ☑ YES ☐ NO (If no, separate notification required to Agency prior to construction.)													

TYPE OF CONSTRUCTION

Transportation	TYPE BRIEF DESCRIPTION OF PROJECT: Roadway widening and resurfacing, storm sewer, water main and traffic signal modernization

HISTORIC PRESERVATION AND ENDANGERED SPECIES COMPLIANCE

HAS THIS PROJECT SATISFIED APPLICABLE REQUIREMENTS FOR COMPLIANCE WITH ILLINOIS LAW ON:

HISTORIC PRESERVATION	☑ YES	☐ NO
ENDANGERED SPECIES	☑ YES	☐ NO

RECEIVING WATER INFORMATION

DOES YOUR STORM WATER DISCHARGE DIRECTLY TO: ☐ WATERS OF THE STATE OR ☑ STORM SEWER	OWNER OF STORM SEWER SYSTEM: Village of Lombard
NAME OF CLOSEST RECEIVING WATER:	

I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this 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. In addition, I certify that the provisions of the permit, including the development and implementation of a storm water pollution prevention plan and a monitoring program plan, will be complied with.

OWNER SIGNATURE:_____ DATE: _____

FOR OFFICE USE ONLY

MAIL COMPLETED FORM TO: (DO NOT SUBMIT ADDITIONAL DOCUMENTATION UNLESS REQUESTED)	ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF WATER POLLUTION CONTROL ATTN: PERMIT SECTION POST OFFICE BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 www.epa.state.il.us	LOG: PERMIT NO. ILR10 DATE:

Information required by this form must be provided to comply with 415 ILCS 5/39 (1996). Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

IL 532 2104
WPC 623 Rev. 6/03

INSTRUCTIONS FOR COMPLETION OF CONSTRUCTION ACTIVITY NOTICE OF INTENT (NOI) FORM

Please adhere to the following instructions:

Submit original, photocopy or facsimile copies. Facsimile and/or photo copies should be followed-up with an original signature copy as soon as possible. Please write "copy" under the "For Office Use Only" box in the lower right hand corner.

- Submit completed forms to:

  Illinois Environmental Protection Agency
  Division of Water Pollution Control
  Permit Section
  Post Office Box 19276
  Springfield, Illinois 62794-9276
  or call (217)782-0610
  www.epa.state.il.us

- Reports must be typed or printed legibly and signed.

- Any facility that is not presently covered by the ILR10 Construction Activity Storm Water Discharge General Permit is considered a new facility.

- If this is a change in your facility information, renewal, etc., please fill in your permit number on the appropriate line.

- NOTE: FACILITY LOCATION IS NOT NECESSARILY THE FACILITY MAILING ADDRESS, BUT SHOULD DESCRIBE WHERE THE FACILITY IS LOCATED.

- Use the formats given in the following examples for correct form completion.

	Example	Format
SECTION	12	1 or 2 numerical digits
TOWNSHIP	12N	1 or 2 numerical digits followed by "N" or "S"
RANGE	12W	1 or 2 numerical digits followed by "E" or "W"

- For the Name of Closest Receiving Waters, do not use terms such as ditch or channel. For unnamed tributaries, use terms which include at least a named main tributary such as "Unnamed Tributary to Sugar Creek to Sangamon River."

- Submit a fee of $500 prior to the Notice of Intent being considered complete for coverage by the ILR10 General Permits. Please make checks payable to: Illinois EPA

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

NOTICE OF TERMINATION (NOT)

OF COVERAGE UNDER THE GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION SITE ACTIVITIES

Please use the tab or arrow keys

OWNER INFORMATION

NAME:	LAST: Village of Lombard	FIRST:	MIDDLE:		OWNER TYPE: City		
MAILING ADDRESS:	1051 S. Hammerschmidt Avenue						
CITY:	Lombard	STATE: IL		ZIP: 60148			
CONTACT PERSON:	Mr. Ray Schwab			TELEPHONE NUMBER:	AREA CODE: 630	NUMBER: 620-5740	

CONTRACTOR INFORMATION

NAME:	LAST:	FIRST:	MIDDLE:	TELEPHONE NUMBER:	AREA CODE:	NUMBER:	
MAILING ADDRESS:		CITY:		STATE:		ZIP:	

CONSTRUCTION SITE INFORMATION

FACILITY NAME:	FAU 2611 (Main Street) P# M-8003(521)			OTHER NPDES PERMIT NOS.:	I	L	R	~~1~~ 4	~~0~~ 0	0	3	7	8		
FACILITY LOCATION:	Roosevelt Road to Wilson Avenue														
CITY:	Lombard	STATE: IL	ZIP: 60148	LATITUDE:	41	51	50	LONGITUDE:	88	01	03				
COUNTY:	DuPage			SECTION:		TOWNSHIP:	39N		RANGE:	10E					

DATE PROJECT HAS BEEN COMPLETED AND STABILIZED:

I certify under penalty of law that disturbed soils at the identified facility have been finally stabilized or that all storm water discharges associated with industrial activity from the identified facility that are authorized by an NPDES general permit have otherwise been eliminated. I understand that by submitting this notice of termination, that I am no longer authorized to discharge storm water associated with industrial activity by the general permit, and that discharging pollutants in storm water associated with industrial activity to Waters of the State is unlawful under the Environmental Protection Act and the Clean Water Act where the discharge is not authorized by an NPDES permit.

OWNER SIGNATURE:_____ **DATE:** _____

MAIL COMPLETED FORM TO:

(DO NOT SUBMIT ADDITIONAL DOCUMENTATION UNLESS REQUESTED)

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF WATER POLLUTION CONTROL
ATTN: PERMIT SECTION
POST OFFICE BOX 19276
SPRINGFIELD, ILLINOIS 62794-9276

FOR OFFICE USE ONLY

LOG:
PERMIT NO. ILR10 ___ ___ ___ ___
DATE:

Information required by this form must be provided to comply with 415 ILCS 5/39 (1996). Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

IL 532 2102
WPC 621 Rev. 1/04

GUIDELINES FOR COMPLETION OF NOTICE OF TERMINATION (NOT) FORM

Please adhere to the following guidelines:

Submit original, photocopy or facsimile copies. Facsimile and/or photo copies should be followed-up with an original signature copy as soon as possible. Please write "copy" under the "For Office Use Only" box in the lower right hand corner.

- Submit completed forms to:

  Illinois Environmental Protection Agency
  Division of Water Pollution Control
  Permit Section
  Post Office Box 19276
  Springfield, Illinois 62794-9276
  217/782-0610

- Reports must be typed or printed legibly and signed.

- NOTE: FACILITY LOCATION IS NOT NECESSARILY THE FACILITY MAILING ADDRESS, BUT SHOULD DESCRIBE WHERE THE FACILITY IS LOCATED.

- Use the formats given in the following examples for correct form completion.

	Example	Format
SECTION	12	1 or 2 numerical digits
TOWNSHIP	12N	1 or 2 numerical digits followed by "N" or "S"
RANGE	12W	1 or 2 numerical digits followed by "E" or "W"

- Final stabilization has occurred when:

  (a) all soil disturbing activities at the site have been completed
  (b) a uniform perennial vegetative cover with a density of 70% of the native background vegetative cover for the area has been established on all unpaved areas and areas not covered by permanent structures,
  (c) or equivalent permanent stabilization measures have been employed.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
CONSTRUCTION SITE STORM WATER DISCHARGE
INCIDENCE OF NON-COMPLIANCE (ION)

PERMITTEE NAME:	LAST			FIRST			MIDDLE INITIAL						AREA CODE + PHONE NUMBER:						
STREET:								CITY:						ST:		ZIP:			
CONSTRUCTION SITE NAME:																			
COUNTY:											SECTION:			TOWNSHIP:			RANGE:		
NPDES PERMIT NUMBER:	I	L	R	1	0					LATITUDE:	DEG.		MIN.		SEC.	LONGITUDE:	DEG.		MIN.	SEC.

CAUSE OF NON-COMPLIANCE:

ACTIONS TAKEN TO PREVENT ANY FURTHER NON-COMPLIANCE:

ENVIRONMENTAL IMPACT RESULTING FROM THE NON-COMPLIANCE:

ACTIONS TAKEN TO REDUCE THE ENVIRONMENTAL IMPACT RESULTING FROM THE NON-COMPLIANCE:

SIGNATURE: _____ TITLE: DATE:

MAIL COMPLETED FORM TO:

(DO NOT SUBMIT ADDITIONAL DOCUMENTATION UNLESS REQUESTED)

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF WATER POLLUTION CONTROL
COMPLIANCE ASSURANCE SECTION #19
POST OFFICE BOX 19276
SPRINGFIELD, ILLINOIS 62794-9276

FOR OFFICE USE ONLY

LOG:
PERMIT NO. ILR10___ ___ ___ ___
DATE:

Information required by this form must be provided to comply with 415 ILCS 5/39(1996). Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

IL 532 2105
WPC 624 Rev. 6/98)

GUIDELINES FOR COMPLETION OF INCIDENCE OF NON-COMPLIANCE (ION) FORM

Complete and submit this form for any violation of the Storm Water Pollution Prevention Plan observed during any inspection conducted, including those not required by the Plan. Please adhere to the following guidelines.

- Submit original, photocopy or facsimile copies. Facsimile and/or photo copies should be followed-up with an original signature copy as soon as possible. Please write "copy" under the "For Office Use Only" box in the lower right hand corner.

- Submit completed forms to:

  Illinois Environmental Protection Agency
  Division of Water Pollution Control
  Permit Section
  Post Office Box 19276
  Springfield, Illinois 62794-9276

- Reports must be typed or printed legibly and signed.

- Use the formats given in the following examples for correct form completion.

Example		Format
SECTION	12	1 or 2 numerical digits
TOWNSHIP	12N	1 or 2 numerical digits followed by "N" or "S"
RANGE	12W	1 or 2 numerical digits followed by "E" or "W"

State of Illinois
Department of Transportation
Bureau of Local Roads and Streets

SPECIAL PROVISION FOR COOPERATION WITH UTILITIES

Effective: January 1, 1999
Revised: January 1, 2007

All references to Sections or Articles in this specification shall be construed to mean specific Section or Article of the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation.

Replace Article 105.07 of the Standard Specifications with the following:

"**105.07 Cooperation with Utilities.** The adjustment of utilities consists of the relocation, removal, replacement, rearrangements, reconstruction, improvement, disconnection, connection, shifting, new installation or altering of an existing utility facility in any manner.

When the plans or special provisions include information pertaining to the location of underground utility facilities, such information represents only the opinion of the Department as to the location of such utilities and is only included for the convenience of the bidder. The Department assumes no responsibility in respect to the sufficiency or the accuracy of the information shown on the plans relative to the location of the underground utility facilities.

Utilities which are to be adjusted shall be adjusted by the utility owner or the owner's representative or by the Contractor as a contract item. Generally, arrangements for adjusting existing utilities will be made by the Department prior to project construction; however, utilities will not necessarily be adjusted in advance of project construction and, in some cases, utilities will not be removed from the proposed construction limits. When utility adjustments must be performed in conjunction with construction, the utility adjustment work will be shown on the plans and/or covered by Special Provisions.

When the Contractor discovers a utility has not been adjusted by the owner or the owner's representative as indicated in the contract documents, or the utility is not shown on the plans or described in the Special Provisions as to be adjusted in conjunction with construction, the Contractor shall not interfere with said utility, and shall take proper precautions to prevent damage or interruption of the utility and shall promptly notify the Engineer of the nature and location of said utility.

All necessary adjustments, as determined by the Engineer, of utilities not shown on the plans or not identified by markers, will be made at no cost to the Contractor except traffic structures, light poles, etc., that are normally located within the proposed construction limits as hereinafter defined will not be adjusted unless required by the proposed improvement.

(a) Limits of Proposed Construction for Utilities Paralleling the Roadway. For the purpose of this Article, limits of proposed construction for utilities extending in the same longitudinal direction as the roadway, shall be defined as follows:

(1) The horizontal limits shall be a vertical plane, outside of, parallel to, and 600 mm (2 ft) distant at right angles from the plan or revised slope limits.

In cases where the limits of excavation for structures are not shown on the plans, the horizontal limits shall be a vertical plane 1.2 m (4 ft) outside the edges of structure footings or the structure where no footings are required.

(2) The upper vertical limits shall be the regulations governing the roadbed clearance for the specific utility involved.

(3) The lower vertical limits shall be the top of the utility at the depth below the proposed grade as prescribed by the governing agency or the limits of excavation, whichever is less.

(b) Limits of Proposed Construction for Utilities Crossing the Roadway. For the purpose of this Article, limits of proposed construction for utilities crossing the roadway in a generally transverse direction shall be defined as follows:

(1) Utilities crossing excavations for structures that are normally made by trenching such as sewers, underdrains, etc. and all minor structures such as manholes, inlets, foundations for signs, foundations for traffic signals, etc., the limits shall be the space to be occupied by the proposed permanent construction unless otherwise required by the regulations governing the specific utility involved.

(2) For utilities crossing the proposed site of major structures such as bridges, sign trusses, etc., the limits shall be as defined above for utilities extending in the same general direction as the roadway.

The Contractor may make arrangements for adjustment of utilities outside of the limits of proposed construction provided the Contractor furnishes the Department with a signed agreement with the utility owner covering the adjustments to be made. The cost of any adjustments made outside the limits of proposed construction shall be the responsibility of the Contractor unless otherwise provided.

The Contractor shall request all utility owners to field locate their facilities according to Article 107.31. The Engineer may make the request for location from the utility after receipt of notice from the Contractor. On request, the Engineer will make an inspection to verify that the utility company has field located its facilities, but will not assume responsibility for the accuracy of such work. The Contractor shall be responsible for maintaining the excavations or markers provided by the utility owners. This field location procedure may be waived if the utility owner has stated in writing to the Department it is satisfied the construction plans are sufficiently accurate. If the utility owner does not submit such statement to the Department, and they do not field locate their facilities in both horizontal and vertical alignment, the Engineer will authorize the Contractor in writing to proceed to locate the facilities in the most economical and reasonable manner, subject to the approval of the Engineer, and be paid according to Article 109.04.

The Contractor shall coordinate with any planned utility adjustment or new installation and the Contractor shall take all precautions to prevent disturbance or damage to utility facilities. Any failure on the part of the utility owner, or their representative, to proceed with any planned utility adjustment or new installation shall be reported promptly by the Contractor to the Engineer orally and in writing.

The Contractor shall take all necessary precautions for the protection of the utility facilities. The Contractor shall be responsible for any damage or destruction of utility facilities resulting from neglect, misconduct, or omission in the Contractor's manner or method of execution or nonexecution of the work, or caused by defective work or the use of unsatisfactory materials. Whenever any damage or destruction of a utility facility occurs as a result of work performed by the Contractor, the utility company will be immediately notified. The utility company will make arrangements to restore such facility to a condition equal to that existing before any such damage or destruction was done.

It is understood and agreed that the Contractor has considered in the bid all of the permanent and temporary utilities in their present and/or adjusted positions.

No additional compensation will be allowed for any delays, inconvenience, or damage sustained by the Contractor due to any interference from the said utility facilities or the operation of relocating the said utility facilities.

State of Illinois
Department of Transportation
Bureau of Local Roads and Streets

SPECIAL PROVISION FOR INSURANCE

Effective: February 1, 2007
Revised: August 1, 2007

All references to Sections or Articles in this specification shall be construed to mean specific Section or Article of the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation.

The Contractor shall name the following entities as additional insured under the Contractor's general liability insurance policy in accordance with Article 107.27:

Village of Lombard

Civiltech Engineering Inc.

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

ALKALI-SILICA REACTION FOR CAST-IN-PLACE CONCRETE (BDE)

Effective: August 1, 2007

Description. This special provision is intended to reduce the risk of a deleterious alkali-silica reaction in concrete exposed to humid or wet conditions. The special provision is not intended or adequate for concrete exposed to potassium acetate, potassium formate, sodium acetate or sodium formate. The special provision shall not apply to the dry environment (humidity less than 60 percent) found inside buildings for residential or commercial occupancy. The special provision shall also not apply to precast products or precast prestressed products.

Aggregate Expansion Values. Each coarse and fine aggregate will be tested by the Department for alkali reaction according to ASTM C 1260. The test will be performed with Type I or II cement having a total equivalent alkali content ($Na_2O + 0.658K_2O$) of 0.90 percent or greater. The Engineer will determine the assigned expansion value for each aggregate, and these values will be made available on the Department's Alkali-Silica Potential Reactivity Rating List. The Engineer may differentiate aggregate based on ledge, production method, gradation number, or other factors. An expansion value of 0.05 percent will be assigned to limestone or dolomite coarse aggregates and 0.03 percent to limestone or dolomite fine aggregates (manufactured stone sand); however the Department reserves the right to perform the ASTM C 1260 test.

Aggregate Groups. Each combination of aggregates used in a mixture will be assigned to an aggregate group. The point at which the coarse aggregate and fine aggregate expansion values intersect in the following table will determine the group.

AGGREGATE GROUPS			
Coarse Aggregate or Coarse Aggregate Blend ASTM C 1260 Expansion	Fine Aggregate or Fine Aggregate Blend ASTM C 1260 Expansion		
	≤ 0.16%	> 0.16% - 0.27%	> 0.27%
≤ 0.16%	Group I	Group II	Group III
> 0.16% - 0.27%	Group II	Group II	Group III
> 0.27%	Group III	Group III	Group IV

Mixture Options. Based upon the aggregate group, the following mixture options shall be used; however, the Department may prohibit a mixture option if field performance shows a deleterious alkali-silica reaction or Department testing indicates the mixture may experience a deleterious alkali-silica reaction.

Group I - Mixture options are not applicable. Use any cement or finely divided mineral.
Group II - Mixture options 1, 2, 3, 4, or 5 shall be used.
Group III - Mixture options 1, 2 and 3 combined, 4, or 5 shall be used.
Group IV - Mixture options 1, 2 and 4 combined, or 5 shall be used.

For Class PP-3 concrete the mixture options are not applicable, and any cement may be used with the specified finely divided minerals.

a) Mixture Option 1. The coarse or fine aggregates shall be blended to place the material in a group that will allow the selected cement or finely divided mineral to be used.

When a coarse or fine aggregate is blended, the weighted expansion value shall be calculated separately for the coarse and fine aggregate as follows:

Weighted Expansion Value = (a/100 x A) + (b/100 x B) + (c/100 x C) + ...

Where: a, b, c... = percentage of aggregate in the blend;
A, B, C...= expansion value for that aggregate.

b) Mixture Option 2. A finely divided mineral shall be used as described in 1), 2), 3), or 4) that follow. The replacement ratio is defined as "finely divided mineral:portland cement".

1) Class F Fly Ash. For Class PV, BS, MS, DS, SC, and SI concrete and cement aggregate mixture II (CAM II), Class F fly ash shall replace 15 percent of the portland cement at a minimum replacement ratio of 1.5:1.

2) Class C Fly Ash. For Class PV, MS, SC, and SI Concrete, Class C fly ash with 18 percent to less than 26.5 percent calcium oxide content, and less than 2.0 percent loss on ignition, shall replace 20 percent of the portland cement at a minimum replacement ratio of 1:1; or at a minimum replacement ratio of 1.25:1 if the loss on ignition is 2.0 percent or greater. Class C fly ash with less than 18 percent calcium oxide content shall replace 20 percent of the portland cement at a minimum replacement ratio of 1.25:1.

For Class PP-1, RR, BS, and DS concrete and CAM II, Class C fly ash with less than 26.5 percent calcium oxide content shall replace 15 percent of the portland cement at a minimum replacement ratio of 1.5:1.

3) Ground Granulated Blast-Furnace Slag. For Class PV, BS, MS, SI, DS, and SC concrete, ground granulated blast-furnace slag shall replace 25 percent of the portland cement at a minimum replacement ratio of 1:1.

For Class PP-1 and RR concrete, ground granulated blast-furnace slag shall replace 15 percent of the portland cement at a minimum replacement ratio of 1.5:1.

For Class PP-2, ground granulated blast-furnace slag shall replace 25 to 30 percent of the portland cement at a minimum replacement ratio of 1:1.

4) Microsilica or High Reactivity Metakaolin. Microsilica solids or high reactivity metakaolin shall be added to the mixture at a minimum 25 lb/cu yd (15 kg/cu m) or 27 lb/cu yd (16 kg/cu m) respectively.

c) Mixture Option 3. The cement used shall have a maximum total equivalent alkali content ($Na_2O + 0.658K_2O$) of 0.60 percent. When aggregate in Group II is involved, any finely divided mineral may be used with a portland cement.

d) Mixture Option 4. The cement used shall have a maximum total equivalent alkali content ($Na_2O + 0.658K_2O$) of 0.45 percent. When aggregate in Group II or III is involved, any finely divided mineral may be used with a portland cement.

e) Mixture Option 5. The proposed cement or finely divided mineral may be used if the ASTM C 1567 expansion value is ≤ 0.16 percent when performed on the aggregate in the concrete mixture with the highest ASTM C 1260 test result. The ASTM C 1567 test will be valid for two years, unless the Engineer determines the materials have changed significantly. For latex concrete, the ASTM C 1567 test shall be performed without the latex. The 0.20 percent autoclave expansion limit in ASTM C 1567 shall not apply.

   If during the two year time period the Contractor needs to replace the cement, and the replacement cement has an equal or lower total equivalent alkali content ($Na_2O + 0.658K_2O$), a new ASTM C 1567 test will not be required.

Testing. If an individual aggregate has an ASTM C 1260 expansion value > 0.16 percent, an ASTM C 1293 test may be performed by the Contractor to evaluate the Department's ASTM C 1260 test result. The ASTM C 1293 test shall be performed with Type I or II cement having a total equivalent alkali content ($Na_2O + 0.658K_2O$) of 0.80 percent or greater. The interior vertical wall of the ASTM C 1293 recommended container (pail) shall be half covered with a wick of absorbent material consisting of blotting paper. If the testing laboratory desires to use an alternate container or wick of absorbent material, ASTM C 1293 test results with an alkali-reactive aggregate of known expansion characteristics shall be provided to the Engineer for review and approval. If the expansion is less than 0.040 percent after one year, the aggregate will be assigned an ASTM C 1260 expansion value of 0.08 percent that will be valid for two years, unless the Engineer determines the aggregate has changed significantly.

The Engineer reserves the right to verify a Contractor's ASTM C 1293 or 1567 test result. The Engineer will not accept the result if the precision and bias for the test methods are not met.

The laboratory performing the ASTM C 1567 test shall be inspected for Hydraulic Cement - Physical Tests by the Cement and Concrete Reference Laboratory (CCRL) and shall be approved by the Department. The laboratory performing the ASTM C 1293 test shall be inspected for Portland Cement Concrete by CCRL and shall be approved by the Department.

BITUMINOUS MATERIALS COST ADJUSTMENTS (BDE) (RETURN FORM WITH BID)

Effective: November 2, 2006
Revised: January 2, 2007

Description. For projects with at least 1200 tons (1100 metric tons) of work involving applicable bituminous materials, cost adjustments will be made to provide additional compensation to the Contractor, or credit to the Department, for fluctuations in the cost of bituminous materials when optioned by the Contractor. The adjustments shall apply to permanent and temporary hot-mix asphalt (HMA) mixtures, bituminous surface treatments (cover and seal coats), and pavement preservation type surface treatments. The adjustments shall not apply to bituminous prime coats, tack coats, crack filling/sealing, or joint filling/sealing.

The bidder shall indicate on the attached form whether or not this special provision will be part of the contract and submit the completed form with his/her bid. Failure to submit the form, or failure to fill out the form completely, shall make this contract exempt of bituminous materials cost adjustments.

Method of Adjustment. Bituminous materials cost adjustments will be computed as follows.

$CA = (BPI_P - BPI_L) \times (\%AC_V / 100) \times Q$

Where: CA = Cost Adjustment, $.
BPI_P = Bituminous Price Index, as published by the Department for the month the work is performed, $/ton ($/metric ton).
BPI_L = Bituminous Price Index, as published by the Department for the month prior to the letting, $/ton ($/metric ton).
$\%AC_V$ = Percent of virgin Asphalt Cement in the Quantity being adjusted. For HMA mixtures, the % AC_V will be determined from the adjusted job mix formula. For bituminous materials applied, a performance graded or cutback asphalt will be considered to be 100% AC_V and undiluted emulsified asphalt will be considered to be 65% AC_V.
Q = Authorized construction Quantity, tons (metric tons) (see below).

For HMA mixtures measured in square yards: Q, tons = A x D x (G_{mb} x 46.8) / 2000. For HMA mixtures measured in square meters: Q, metric tons = A x D x (G_{mb} x 24.99) / 1000. When computing adjustments for full-depth HMA pavement, separate calculations will be made for the binder and surface courses to account for their different G_{mb} and % AC_V.

For bituminous materials measured in gallons: Q, tons = V x 8.33 lb/gal x SG / 2000
For bituminous materials measured in liters: Q, metric tons = V x 1.0 kg/L x SG / 1000

Where: A = Area of the HMA mixture, sq yd (sq m).
D = Depth of the HMA mixture, in. (mm).
G_{mb} = Average bulk specific gravity of the mixture, from the approved mix design.
V = Volume of the bituminous material, gal (L).

SG = Specific Gravity of bituminous material as shown on the bill of lading.

Basis of Payment. Bituminous materials cost adjustments may be positive or negative but will only be made when there is a difference between the BPI_L and BPI_P in excess of five percent, as calculated by:

Percent Difference = $\{(BPI_L - BPI_P) \div BPI_L\} \times 100$

Bituminous materials cost adjustments will be calculated for each calendar month in which applicable bituminous material is placed; and will be paid or deducted when all other contract requirements for the items of work are satisfied. The adjustments shall not apply during contract time subject to liquidated damages for completion of the entire contract.

Return With Bid

ILLINOIS DEPARTMENT OF TRANSPORTATION

OPTION FOR BITUMINOUS MATERIALS COST ADJUSTMENTS

The bidder shall submit this completed form with his/her bid. Failure to submit the form, or failure to fill out the form completely, shall make this contract exempt of bituminous materials cost adjustments. After award, this form, when submitted, shall become part of the contract.

Contract No.: _____

Company Name: _____

Contractor's Option:

Is your company opting to include this special provision as part of the contract?

Yes ☐ No ☐

Signature: _____ **Date:** _____

80173

CEMENT (BDE)

Effective: January 1, 2007
Revised: November 1, 2007

Revise Section 1001 of the Standard Specifications to read:

"SECTION 1001. CEMENT

1001.01 Cement Types. Cement shall be according to the following.

(a) Portland Cement. Acceptance of portland cement shall be according to the current Bureau of Materials and Physical Research's Policy Memorandum, "Portland or Blended Cement Acceptance Procedure for Qualified and Non-Qualified Plants".

Portland cement shall be according to ASTM C 150, and shall meet the standard physical and chemical requirements. Type I or Type II may be used for cast-in-place, precast, and precast prestressed concrete. Type III may be used according to Article 1020.04, or when approved by the Engineer. All other cements referenced in ASTM C 150 may be used when approved by the Engineer.

The total of all organic processing additions shall be a maximum of 1.0 percent by weight (mass) of the cement and the total of all inorganic processing additions shall be a maximum of 4.0 percent by weight (mass) of the cement. Organic processing additions shall be limited to grinding aids that improve the flowability of cement, reduce pack set, and improve grinding efficiency. Inorganic processing additions shall be limited to granulated blast-furnace slag according to the chemical requirements of AASHTO M 302 and Class C fly ash according to the chemical requirements of AASHTO M 295.

(b) Portland-Pozzolan Cement. Acceptance of portland-pozzolan cement shall be according to the current Bureau of Materials and Physical Research's Policy Memorandum, "Portland or Blended Cement Acceptance Procedure for Qualified and Non-Qualified Plants".

Portland-pozzolan cement shall be according to ASTM C 595 and shall meet the standard physical and chemical requirements. Type IP or I(PM) may be used for cast-in-place, precast, and precast prestressed concrete, except when Class PP concrete is used. The pozzolan constituent for Type IP shall be a maximum of 21 percent of the weight (mass) of the portland-pozzolan cement. All other cements referenced in ASTM C 595 may be used when approved by the Engineer.

For cast-in-place construction, portland-pozzolan cements shall not be used in concrete mixtures when the air temperature is below 40 °F (4 °C) without permission of the Engineer. If permission is given, the mix design strength requirement may require the Contractor to increase the cement or eliminate the cement factor reduction for a water-

reducing or high range water-reducing admixture which is permitted according to Article 1020.05(b).

The total of all organic processing additions shall be a maximum of 1.0 percent by weight (mass) of the cement. Organic processing additions shall be limited to grinding aids as defined in (a) above. Inorganic processing additions shall not be used.

(c) Portland Blast-Furnace Slag Cement. Acceptance of portland blast-furnace slag cement shall be according to the current Bureau of Materials and Physical Research's Policy Memorandum, "Portland or Blended Cement Acceptance Procedure for Qualified and Non-Qualified Plants".

Portland blast-furnace slag cement shall be according to ASTM C 595 and shall meet the standard physical and chemical requirements. Type I(SM) slag-modified portland cement may be used for cast-in-place, precast, and precast prestressed concrete, except when Class PP concrete is used. All other cements referenced in ASTM C 595 may be used when approved by the Engineer.

For cast-in-place construction, portland blast-furnace slag cements shall not be used in concrete mixtures when the air temperature is below 40 °F (4 °C) without permission of the Engineer. If permission is given, the mix design strength requirement may require the Contractor to increase the cement or eliminate the cement factor reduction for a water-reducing or high range water-reducing admixture which is permitted according to Article 1020.05(b).

The total of all organic processing additions shall be a maximum of 1.0 percent by weight (mass) of the cement. Organic processing additions shall be limited to grinding aids as defined in (a) above. Inorganic processing additions shall not be used.

(d) Rapid Hardening Cement. Rapid hardening cement shall be used according to Article 1020.04 or when approved by the Engineer. The cement shall be on the Department's current "Approved List of Packaged, Dry, Rapid Hardening Cementitious Materials for Concrete Repairs", and shall be according to the following.

(1) The cement shall have a maximum final set of 25 minutes, according to Illinois Modified ASTM C 191.

(2) The cement shall have a minimum compressive strength of 2000 psi (13,800 kPa) at 3.0 hours, and 4000 psi (27,600 kPa) at 24.0 hours, according to Illinois Modified ASTM C 109.

(3) The cement shall have a maximum drying shrinkage of 0.050 percent at seven days, according to Illinois Modified ASTM C 596.

(4) The cement shall have a maximum expansion of 0.020 percent at 14 days, according to Illinois Modified ASTM C 1038.

(5) The cement shall have a minimum 80 percent relative dynamic modulus of elasticity; and shall not have a weight (mass) gain in excess of 0.15 percent or a weight (mass) loss in excess of 1.0 percent, after 100 cycles, according to Illinois Modified AASHTO T 161, Procedure B. At 100 cycles, the specimens are measured and weighed at 73 °F (23 °C).

(e) Calcium Aluminate Cement. Calcium aluminate cement shall be used when specified by the Engineer. The cement shall meet the standard physical requirements for Type I cement according to ASTM C 150, except the time of setting shall not apply. The chemical requirements shall be determined according to ASTM C 114 and shall be as follows: minimum 38 percent aluminum oxide (Al_2O_3), maximum 42 percent calcium oxide (CaO), maximum 1 percent magnesium oxide (MgO), maximum 0.4 percent sulfur trioxide (SO_3), maximum 1 percent loss on ignition, and maximum 3.5 percent insoluble residue.

1001.02 Uniformity of Color. Cement contained in single loads or in shipments of several loads to the same project shall not have visible differences in color.

1001.03 Mixing Brands and Types. Different brands or different types of cement from the same manufacturing plant, or the same brand or type from different plants shall not be mixed or used alternately in the same item of construction unless approved by the Engineer.

1001.04 Storage. Cement shall be stored and protected against damage, such as dampness which may cause partial set or hardened lumps. Different brands or different types of cement from the same manufacturing plant, or the same brand or type from different plants shall be kept separate."

80166

DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION (BDE)

Effective: September 1, 2000
Revised: January 1, 2007

FEDERAL OBLIGATION. The Department of Transportation, as a recipient of federal financial assistance, is required to take all necessary and reasonable steps to ensure nondiscrimination in the award and administration of contracts. Consequently, the federal regulatory provisions of 49 CFR part 26 apply to this contract concerning the utilization of disadvantaged business enterprises. For the purposes of this Special Provision, a disadvantaged business enterprise (DBE) means a business certified by the Department in accordance with the requirements of 49 CFR part 26 and listed in the DBE Directory or most recent addendum.

STATE OBLIGATION. This Special Provision will also be used by the Department to satisfy the requirements of the Business Enterprise for Minorities, Females, and Persons with Disabilities Act, 30 ILCS 575. When this Special Provision is used to satisfy state law requirements on 100 percent state-funded contracts, the federal government has no involvement in such contracts (not a federal-aid contract) and no responsibility to oversee the implementation of this Special Provision by the Department on those contracts. DBE participation on 100 percent state-funded contracts will not be credited toward fulfilling the Department's annual overall DBE goal required by the US Department of Transportation to comply with the federal DBE program requirements.

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

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

OVERALL GOAL SET FOR THE DEPARTMENT. As a requirement of compliance with 49 CFR part 26, the Department has set an overall goal for DBE participation in its federally assisted contracts. That goal applies to all federal-aid funds the Department will expend in its federally assisted contracts for the subject reporting fiscal year. The Department is required to make a good faith effort to achieve the overall goal. The dollar amount paid to all approved DBE firms performing work called for in this contract is eligible to be credited toward fulfillment of the Department's overall goal.

CONTRACT GOAL TO BE ACHIEVED BY THE CONTRACTOR. This contract includes a specific DBE utilization goal established by the Department. The goal has been included because the Department has determined that the work of this contract has subcontracting opportunities that may be suitable for performance by DBE companies. This determination is based on an assessment of the type of work, the location of the work, and the availability of

DBE companies to do a part of the work. The assessment indicates that, in the absence of unlawful discrimination, and in an arena of fair and open competition, DBE companies can be expected to perform 15 % of the work. This percentage is set as the DBE participation goal for this contract. Consequently, in addition to the other award criteria established for this contract, the Department will award this contract to a bidder who makes a good faith effort to meet this goal of DBE participation in the performance of the work. A bidder makes a good faith effort for award consideration if either of the following is done in accordance with the procedures set forth in this Special Provision:

(a) The bidder documents that firmly committed DBE participation has been obtained to meet the goal; or

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

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

BIDDING PROCEDURES. Compliance with the bidding procedures of this Special Provision is required prior to the award of the contract and the failure of the as-read low bidder to comply will render the bid not responsive.

(a) In order to assure the timely award of the contract, the as-read low bidder shall submit a Disadvantaged Business Utilization Plan on Department form SBE 2026 within seven working days after the date of letting. To meet the seven day requirement, the bidder may send the Plan by certified mail or delivery service within the seven working day period. If a question arises concerning the mailing date of a Plan, the mailing date will be established by the U.S. Postal Service postmark on the original certified mail receipt from the U.S. Postal Service or the receipt issued by a delivery service. It is the responsibility of the bidder to ensure that the postmark or receipt date is affixed within the seven working days if the bidder intends to rely upon mailing or delivery to satisfy the submission day requirement. The Plan is to be submitted to the Department of Transportation, Bureau of Small Business Enterprises, Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764 (Telefax: (217)785-1524). It is the responsibility of the bidder to obtain confirmation of telefax delivery. The Department will not accept a Utilization Plan if it does not meet the seven day submittal requirement and the bid will be declared not responsive. In the event the bid is declared not responsive due to a failure to submit a Plan or failure to comply with the bidding procedures set forth herein, the Department may elect to cause the forfeiture of the penal sum of the bidder's proposal guaranty, and may deny authorization to bid the

project if re-advertised for bids. The Department reserves the right to invite any other bidder to submit a Utilization Plan at any time for award consideration or to extend the time for award.

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

(c) The Utilization Plan shall include a DBE Participation Commitment Statement, Department form SBE 2025, for each DBE proposed for the performance of work to achieve the contract goal. The signatures on these forms must be original signatures. All elements of information indicated on the said form shall be provided, including but not limited to the following:

(1) The name and address of each DBE to be used;

(2) A description, including pay item numbers, of the commercially useful work to be done by each DBE;

(3) The price to be paid to each DBE for the identified work specifically stating the quantity, unit price, and total subcontract price for the work to be completed by the DBE. If partial pay items are to be performed by the DBE, indicate the portion of each item, a unit price where appropriate and the subcontract price amount;

(4) A commitment statement signed by the bidder and each DBE evidencing availability and intent to perform commercially useful work on the project; and

(5) If the bidder is a joint venture comprised of DBE firms and non-DBE firms, the plan must also include a clear identification of the portion of the work to be performed by the DBE partner(s).

(d) The contract will not be awarded until the Utilization Plan submitted by the bidder is approved. The Utilization Plan will be approved by the Department if the Plan commits sufficient commercially useful DBE work performance to meet the contract goal. The Utilization Plan will not be approved by the Department if the Plan does not commit sufficient DBE performance to meet the contract goal unless the bidder documents that it made a good faith effort to meet the goal. The good faith procedures of Section VIII of this special provision apply. If the Utilization Plan is not approved because it is deficient in a technical matter, unless waived by the Department, the bidder will be notified and will be allowed no less than a five working day period in order to cure the deficiency.

CALCULATING DBE PARTICIPATION. The Utilization Plan values represent work anticipated to be performed and paid for upon satisfactory completion. The Department is only able to

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

(a) DBE as the Contractor: 100 percent goal credit for that portion of the work performed by the DBE's own forces, including the cost of materials and supplies. Work that a DBE subcontracts to a non-DBE firm 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 firm 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 contact. Credit will be given for the full value of all such DBE trucks operated using DBE employed drivers. Goal credit will be limited to the value of the reasonable fee or commission received by the DBE if trucks are leased from a non-DBE company.

(e) DBE as a material supplier:

(1) 60 percent goal credit for the cost of the materials or supplies purchased from a DBE regular dealer.

(2) 100 percent goal credit for the cost of materials or supplies obtained from a DBE manufacturer.

(3) 100 percent credit for the value of reasonable fees and commissions for the procurement of materials and supplies if not a regular dealer or manufacturer.

GOOD FAITH EFFORT PROCEDURES. If the bidder cannot obtain sufficient DBE commitments to meet the contract goal, the bidder must document in the Utilization Plan the good faith efforts made in the attempt to meet the goal. This means that the bidder must show

that all necessary and reasonable steps were taken to achieve the contract goal. Necessary and reasonable steps are those which could reasonably be expected to obtain sufficient DBE participation. The Department will consider the quality, quantity, and intensity of the kinds of efforts that the bidder has made. Mere *pro forma* efforts are not good faith efforts; rather, the bidder is expected to have taken those efforts that would be reasonably expected of a bidder actively and aggressively trying to obtain DBE participation sufficient to meet the contract goal.

(a) The following is a list of types of action that the Department will consider as part of the evaluation of the bidder's good faith efforts to obtain participation. These listed factors are not intended to be a mandatory checklist and are not intended to be exhaustive. Other factors or efforts brought to the attention of the Department may be relevant in appropriate cases, and will be considered by the Department.

(1) Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBE companies that have the capability to perform the work of the contract. The bidder must solicit this interest within sufficient time to allow the DBE companies to respond to the solicitation. The bidder must determine with certainty if the DBE companies are interested by taking appropriate steps to follow up initial solicitations.

(2) Selecting portions of the work to be performed by DBE companies in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the prime Contractor might otherwise prefer to perform these work items with its own forces.

(3) Providing interested DBE companies with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.

(4) a. Negotiating in good faith with interested DBE companies. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBE companies that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBE companies to perform the work.

b. A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBE companies is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also, the

ability or desire of a bidder to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Bidders are not, however, required to accept higher quotes from DBE companies if the price difference is excessive or unreasonable.

(5) Not rejecting DBE companies as being unqualified without sound reasons based on a thorough investigation of their capabilities. The bidder's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the bidder's efforts to meet the project goal.

(6) Making efforts to assist interested DBE companies in obtaining bonding, lines of credit, or insurance as required by the recipient or Contractor.

(7) Making efforts to assist interested DBE companies in obtaining necessary equipment, supplies, materials, or related assistance or services.

(8) Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, state, and federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBE companies.

(b) If the Department determines that the bidder has made a good faith effort to secure the work commitment of DBE companies to meet the contract goal, the Department will award the contract provided that it is otherwise eligible for award. If the Department determines that a good faith effort has not been made, the Department will notify the bidder of that preliminary determination by contacting the responsible company official designated in the Utilization Plan. The preliminary determination shall include a statement of reasons why good faith efforts have not been found, and may include additional good faith efforts that the bidder could take. The notification will designate a five working day period during which the bidder shall take additional efforts. The bidder is not limited by a statement of additional efforts, but may take other action beyond any stated additional efforts in order to obtain additional DBE commitments. The bidder shall submit an amended Utilization Plan if additional DBE commitments to meet the contract goal are secured. If additional DBE commitments sufficient to meet the contract goal are not secured, the bidder shall report the final good faith efforts made in the time allotted. All additional efforts taken by the bidder will be considered as part of the bidder's good faith efforts. If the bidder is not able to meet the goal after taking additional efforts, the Department will make a pre-final determination of the good faith efforts of the bidder and will notify the designated responsible company official of the reasons for an adverse determination.

(c) The bidder may request administrative reconsideration of a pre-final determination adverse to the bidder within the five working days after the notification date of the determination by delivering the request to the Department of Transportation, Bureau of

Small Business Enterprises, Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764 (Telefax: (217)785-1524). Deposit of the request in the United States mail on or before the fifth business day shall not be deemed delivery. The pre-final determination shall become final if a request is not made and delivered. A request may provide additional written documentation and/or argument concerning the issue of whether an adequate good faith effort was made to meet the contract goal. In addition, the request shall be considered a consent by the bidder to extend the time for award. The request will be forwarded to the Department's Reconsideration Officer. The Reconsideration Officer will extend an opportunity to the bidder to meet in person in order to consider all issues of whether the bidder made a good faith effort to meet the goal. After the review by the Reconsideration Officer, the bidder will be sent a written decision within ten working days after receipt of the request for reconsideration, explaining the basis for finding that the bidder did or did not meet the goal or make adequate good faith efforts to do so. A final decision by the Reconsideration Officer that a good faith effort was made shall approve the Utilization Plan submitted by the bidder and shall clear the contract for award. A final decision that a good faith effort was not made shall render the bid not responsive.

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

(a) No amendment to the Utilization Plan may be made without prior written approval from the Department's Bureau of Small Business Enterprises. All requests for amendment to the Utilization Plan shall be submitted to the Department of Transportation, Bureau of Small Business Enterprises, Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764. Telephone number (217) 785-4611. Telefax number (217) 785-1524.

(b) All work indicated for performance by an approved DBE shall be performed, managed, and supervised by the DBE executing the Participation Statement. The Contractor shall not terminate for convenience a DBE listed in the Utilization Plan and then perform the work of the terminated DBE with its own forces, those of an affiliate or those of another subcontractor, whether DBE or not, without first obtaining the written consent of the Bureau of Small Business Enterprises to amend the Utilization Plan. If a DBE listed in the Utilization Plan is terminated for reasons other than convenience, or fails to complete its work on the contract for any reason, the Contractor shall make good faith efforts to

find another DBE to substitute for the terminated DBE. The good faith efforts shall be directed at finding another DBE to perform at least the same amount of work under the contract as the DBE that was terminated, but only to the extent needed to meet the contract goal or the amended contract goal. The Contractor shall notify the Bureau of Small Business Enterprises of any termination for reasons other than convenience, and shall obtain approval for inclusion of the substitute DBE in the Utilization Plan. If good faith efforts following a termination of a DBE for cause are not successful, the Contractor shall contact the Bureau and provide a full accounting of the efforts undertaken to obtain substitute DBE participation. The Bureau will evaluate the good faith efforts in light of all circumstances surrounding the performance status of the contract, and determine whether the contract goal should be amended.

(c) The Contractor shall maintain a record of payments for work performed to the DBE participants. The records shall be made available to the Department for inspection upon request. After the performance of the final item of work or delivery of material by a DBE and final payment therefor to the DBE by the Contractor, but not later than thirty calendar days after payment has been made by the Department to the Contractor for such work or material, the Contractor shall submit a DBE Payment Report on Department form SBE 2115 to the Regional Engineer. If full and final payment has not been made to the DBE, the Report shall indicate whether a disagreement as to the payment required exists between the Contractor and the DBE or if the Contractor believes that the work has not been satisfactorily completed. If the Contractor does not have the full amount of work indicated in the Utilization Plan performed by the DBE companies indicated in the Plan, the Department will deduct from contract payments to the Contractor the amount of the goal not achieved as liquidated and ascertained damages.

(d) The Department reserves the right to withhold payment to the Contractor to enforce the provisions of this Special Provision. Final payment shall not be made on the contract until such time as the Contractor submits sufficient documentation demonstrating achievement of the goal in accordance with this Special Provision or after liquidated damages have been determined and collected.

(e) Notwithstanding any other provision of the contract, including but not limited to Article 109.09 of the Standard Specifications, the Contractor may request administrative reconsideration of a decision to deduct the amount of the goal not achieved as liquidated damages. A request to reconsider shall be delivered to the Contract Compliance Section and shall be handled and considered in the same manner as set forth in paragraph (c) of "Good Faith Effort Procedures" of this Special Provision, except a final decision that a good faith effort was not made during contract performance to achieve the goal agreed to in the Utilization Plan shall be the final administrative decision of the Department.

DOWEL BARS (BDE)

Effective: April 1, 2007
Revised: January 1, 2008

Revise the fifth and sixth sentences of Article 1006.11(b) of the Standard Specifications to read:

"The bars shall be epoxy coated according to AASHTO M 284, except the thickness of the epoxy shall be 7 to 12 mils (0.18 to 0.30 mm) and patching of the ends will not be required. The epoxy coating applicator shall be certified according to the current Bureau of Materials and Physical Research Policy Memorandum, "Epoxy Coating Plant Certification Procedure". The Department will maintain an approved list."

80178

ELECTRICAL SERVICE INSTALLATION - TRAFFIC SIGNALS (BDE)

Effective: January 1, 2007

Add the following to Article 805.02 of the Standard Specifications:

"(d) Wood Pole ..... 1069.04"

Add the following to Article 805.03 of the Standard Specifications:

"When a service pole is necessary, it shall be installed according to Article 830.03(c)."

80167

EQUIPMENT RENTAL RATES (BDE)

Effective: August 2, 2007
Revised: January 2, 2008

Replace the second and third paragraphs of Article 105.07(b)(4)a. of the Standard Specifications with the following:

"Equipment idled which cannot be used on other work, and which is authorized to standby on the project site by the Engineer, will be paid for according to Article 109.04(b)(4)."

Replace Article 109.04(b)(4) of the Standard Specifications with the following:

"(4) Equipment. Equipment used for extra work shall be authorized by the Engineer. The equipment shall be specifically described, be of suitable size and capacity for the work to be performed, and be in good operating condition. For such equipment, the Contractor will be paid as follows.

a. Contractor Owned Equipment. Contractor owned equipment will be paid for by the hour using the applicable FHWA hourly rate from the "Equipment Watch Rental Rate Blue Book" (Blue Book) in effect when the force account work begins. The FHWA hourly rate is calculated as follows.

FHWA hourly rate = (monthly rate/176) x (model year adj.) x (Illinois adj.) + EOC

Where: EOC = Estimated Operating Costs per hour (from the Blue Book)

The time allowed will be the actual time the equipment is operating on the extra work. For the time required to move the equipment to and from the site of the extra work and any authorized idle (standby) time, payment will be made at the following hourly rate: 0.5 x (FHWA hourly rate - EOC).

All time allowed shall fall within the working hours authorized for the extra work.

The rates above include the cost of fuel, oil, lubrication, supplies, small tools, necessary attachments, repairs, overhaul and maintenance of any kind, depreciation, storage, overhead, profits, insurance, and all incidentals. The rates do not include labor.

The Contractor shall submit to the Engineer sufficient information for each piece of equipment and its attachments to enable the Engineer to determine the proper equipment category. If a rate is not established in the Blue Book for a particular piece of equipment, the Engineer will establish a rate for that piece of equipment that is consistent with its cost and use in the industry.

b. Rented Equipment. Whenever it is necessary for the Contractor to rent equipment to perform extra work, the rental and transportation costs of the equipment plus five percent for overhead will be paid. In no case shall the rental rates exceed those of established distributors or equipment rental agencies.

All prices shall be agreed to in writing before the equipment is used."

80189

EROSION AND SEDIMENT CONTROL DEFICIENCY DEDUCTION (BDE)

Effective: April 1, 2007

Revise Article 105.03(a) of the Standard Specifications to read:

"(a) Erosion and Sediment Control Deficiency Deduction. When the Engineer is notified or determines an erosion and/or sediment control deficiency(s) exists, he/she will notify and direct the Contractor to correct the deficiency within a specified time. The specified time, which begins upon notification to the Contractor, will be from 1/2 hour to 1 week based on the urgency of the situation and the nature of the deficiency. The Engineer will be the sole judge.

A deficiency may be any lack of repair, maintenance, or implementation of erosion and/or sediment control devices included in the contract, or any failure to comply with the conditions of the National Pollutant Discharge Elimination System (NPDES) Storm Water Permit for Construction Site Activities. A deficiency may also be applied to situations where corrective action is not an option such as the failure to participate in a jobsite inspection of the project, failure to install required measures prior to initiating earth moving operations, disregard of concrete washout requirements, or other disregard of the NPDES permit.

If the Contractor fails to correct a deficiency within the specified time, a daily monetary deduction will be imposed for each calendar day or fraction thereof the deficiency exists. The calendar day(s) will begin with notification to the Contractor and end with the Engineer's acceptance of the correction. The daily monetary deduction will be either $1000.00 or 0.05 percent of the awarded contract value, whichever is greater. For those deficiencies where corrective action was not an option, the monetary deduction will be immediate and will be valued at one calendar day."

80180

HOT-MIX ASPHALT - FIELD VOIDS IN THE MINERAL AGGREGATE (BDE)

Effective: April 1, 2007

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

"Parameter	Frequency of Tests High ESAL Mixture Low ESAL Mixture	Frequency of Tests All Other Mixtures	Test Method See Manual of Test Procedures for Materials
VMA Note 5.	1 per half day of production for first 2 days and 1 per day thereafter (first sample of the day)	1 per day	Illinois-Modified AASHTO R 35

Note 5. The G_{sb} used in the voids in the mineral aggregate (VMA) calculation shall be the same average G_{sb} value listed in the mix design."

Add the following to the Control Limits table in Article 1030.05(d)(4) of the Standard Specifications:

"CONTROL LIMITS			
Parameter	High ESAL Low ESAL Individual Test	High ESAL Low ESAL Moving Avg. of 4	All Other Individual Test
VMA	-0.7 % 2/	-0.5 % 2/	N/A

2/ Allowable limit below minimum design VMA requirement"

Add the following to the table in Article 1030.05(d)(5) of the Standard Specifications:

"CONTROL CHART REQUIREMENTS	High ESAL Low ESAL	All Other
	VMA"	

Revise the heading of Article 1030.05(d)(6)a.1. of the Standard Specifications to read:

"1. Voids, VMA, and Asphalt Binder Content."

Revise the first sentence of the first paragraph of Article 1030.05(d)(6)a.1.(a.) of the Standard Specifications to read:

"If the retest for voids, VMA, or asphalt binder content exceeds control limits, HMA production shall cease and immediate corrective action shall be instituted by the Contractor."

Revise the table in Article 1030.05(e) of the Standard Specifications to read:

"Test Parameter	Acceptable Limits of Precision
% Passing: 1/	
1/2 in. (12.5 mm)	5.0 %
No. 4 (4.75 mm)	5.0 %
No. 8 (2.36 mm)	3.0 %
No. 30 (600 μm)	2.0 %
Total Dust Content No. 200 (75 μm) 1/	2.2 %
Asphalt Binder Content	0.3 %
Maximum Specific Gravity of Mixture	0.026
Bulk Specific Gravity	0.030
VMA	1.4 %
Density (% Compaction)	1.0 % (Correlated)

1/ Based on washed ignition."

80181

HOT-MIX ASPHALT MIXTURE IL-9.5L (BDE)

Effective: January 1, 2008

Revise the table entry for C Surface Mixture in Article 1004.03(a) of the Standard Specifications to read:

"Use	Mixture	Aggregates Allowed
HMA High ESAL Low ESAL	C Surface IL-12.5, IL-9.5, or IL-9.5L	Crushed Gravel Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag (except when used as leveling binder)"

Revise the second sentence of the first paragraph of Article 1004.03(b) of the Standard Specifications to read:

"For Class A (seal or cover coat), and other binder courses, the coarse aggregate shall be Class C quality or better."

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

"VOLUMETRIC REQUIREMENTS Low ESAL				
Mixture Composition	Design Compactive Effort	Design Air Voids Target %	VMA (Voids in the Mineral Aggregate), % min.	VFA (Voids Filled with Asphalt Binder), %
IL-9.5L	N_{DES} =30	4.0	15.0	65-78
IL-19.0L	N_{DES} =30	4.0	13.0	N/A"

80195

MAST ARM ASSEMBLY AND POLE (BDE)

Effective: January 1, 2008

Revise Article 1077.03 of the Standard Specifications to read:

"**1077.03 Mast Arm Assembly and Pole.** Mast arm assembly and pole shall be as follows.

(a) Steel Mast Arm Assembly and Pole and Steel Combination Mast Arm Assembly and Pole. The steel mast arm assembly and pole and steel combination mast arm assembly and pole shall consist of a traffic signal mast arm, a luminaire mast arm or davit (for combination pole only), a pole, and a base, together with anchor rods and other appurtenances. The configuration of the mast arm assembly, pole, and base shall be according to the details shown on the plans.

(1) Loading. The mast arm assembly and pole, and combination mast arm assembly and pole shall be designed for the loading shown on the Highway Standards or elsewhere on the plans, whichever is greater. The design shall be according to AASHTO "Standard Specification for Structural Supports for Highway Signs, Luminaries and Traffic Signals" 1994 Edition for 80 mph (130 km/hr) wind velocity. However, the arm-to-pole connection for tapered signal and luminaire arms shall be according to the "ring plate" detail as shown in Figure 11-1(f) of the 2002 Interim, to the AASHTO "Standard Specification for Structural Supports for Highway Signs, Luminaries and Traffic Signals" 2001 4th Edition.

(2) Structural Steel Grade. The mast arm and pole shall be fabricated according to ASTM A 595, Grade A or B, ASTM A 572 Grade 55, or ASTM A 1011 Grade 55 HSLAS Class 2. The base and flange plates shall be of structural steel according to AASHTO M 270 Grade 50 (M 270M Grade 345). Luminaire arms and trussed arms 15 ft (4.5 m) or less shall be fabricated from one steel pipe or tube size according to ASTM A 53 Grade B or ASTM A 500 Grade B or C. All mast arm assemblies, poles, and bases shall be galvanized according to AASHTO M 111.

(3) Fabrication. The design and fabrication of the mast arm assembly, pole, and base shall be according to the requirements of the Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals published by AASHTO. The mast arm and pole may be of single length or sectional design. If section design is used, the overlap shall be at least 150 percent of the maximum diameter of the overlapping section and shall be assembled in the factory.

The manufacturer will be allowed to slot the base plate in which other bolt circles may fit, providing that these slots do not offset the integrity of the pole. Circumferential welds of tapered arms and poles to base plates shall be full penetration welds.

(4) Shop Drawing Approval. The Contractor shall submit detailed drawings showing design materials, thickness of sections, weld sizes, and anchor rods to the Engineer

for approval prior to fabrication. These drawings shall be at least 11 x 17 in. (275 x 425 mm) in size and of adequate quality for microfilming.

(b) Anchor Rods. The anchor rods shall be ASTM F 1554 Grade 105 according to Article 1006.09 and shall be threaded a minimum of 7 1/2 in. (185 mm) at one end and have a bend at the other end. The first 10 in. (250 mm) at the threaded end shall be galvanized. Two nuts, one lock washer, and one flat washer shall be furnished with each anchor rod. All nuts and washers shall be galvanized."

80196

MULTILANE PAVEMENT PATCHING (BDE)

Effective: November 1, 2002

Pavement broken and holes opened for patching shall be completed prior to weekend or holiday periods. Should delays of any type or for any reason prevent the completion of the work, temporary patches shall be constructed. Material able to support the average daily traffic and meeting the approval of the Engineer shall be used for the temporary patches. The cost of furnishing, placing, maintaining, removing and disposing of the temporary work, including traffic control, shall be the responsibility of the Contractor.

80082

PAYMENTS TO SUBCONTRACTORS (BDE)

Effective: June 1, 2000
Revised: January 1, 2006

Federal regulations found at 49 CFR §26.29 mandate the Department to establish a contract clause to require Contractors to pay subcontractors for satisfactory performance of their subcontracts and to set the time for such payments.

State law also addresses the timing of payments to be made to subcontractors and material suppliers. Section 7 of the Prompt Payment Act, 30 ILCS 540/7, requires that when a Contractor receives any payment from the Department, the Contractor shall make corresponding, proportional payments to each subcontractor and material supplier performing work or supplying material within 15 calendar days after receipt of the Department payment. Section 7 of the Act further provides that interest in the amount of two percent per month, in addition to the payment due, shall be paid to any subcontractor or material supplier by the Contractor if the payment required by the Act is withheld or delayed without reasonable cause. The Act also provides that the time for payment required and the calculation of any interest due applies to transactions between subcontractors and lower-tier subcontractors and material suppliers throughout the contracting chain.

This Special Provision establishes the required federal contract clause, and adopts the 15 calendar day requirement of the State Prompt Payment Act for purposes of compliance with the federal regulation regarding payments to subcontractors. This contract is subject to the following payment obligations.

When progress payments are made to the Contractor according to Article 109.07 of the Standard Specifications, the Contractor shall make a corresponding payment to each subcontractor and material supplier in proportion to the work satisfactorily completed by each subcontractor and for the material supplied to perform any work of the contract. The proportionate amount of partial payment due to each subcontractor and material supplier throughout the contracting chain shall be determined by the quantities measured or otherwise determined as eligible for payment by the Department and included in the progress payment to the Contractor. Subcontractors and material suppliers shall be paid by the Contractor within 15 calendar days after the receipt of payment from the Department. The Contractor shall not hold retainage from the subcontractors. These obligations shall also apply to any payments made by subcontractors and material suppliers to their subcontractors and material suppliers; and to all payments made to lower tier subcontractors and material suppliers throughout the contracting chain. Any payment or portion of a payment subject to this provision may only be withheld from the subcontractor or material supplier to whom it is due for reasonable cause.

This Special Provision does not create any rights in favor of any subcontractor or material supplier against the State or authorize any cause of action against the State on account of any payment, nonpayment, delayed payment, or interest claimed by application of the State Prompt Payment Act. The Department will not approve any delay or postponement of the 15 day requirement except for reasonable cause shown after notice and hearing pursuant to Section

7(b) of the State Prompt Payment Act. State law creates other and additional remedies available to any subcontractor or material supplier, regardless of tier, who has not been paid for work properly performed or material furnished. These remedies are a lien against public funds set forth in Section 23(c) of the Mechanics Lien Act, 770 ILCS 60/23(c), and a recovery on the Contractor's payment bond according to the Public Construction Bond Act, 30 ILCS 550.

80022

PORTLAND CEMENT CONCRETE PLANTS (BDE)

Effective: January 1, 2007

Add the following to Article 1020.11(a) of the Standard Specifications.

"(9) Use of Multiple Plants in the Same Construction Item. The Contractor may simultaneously use central-mixed, truck-mixed, and shrink-mixed concrete from more than one plant, for the same construction item, on the same day, and in the same pour. However, the following criteria shall be met.

a. Each plant shall use the same cement, finely divided minerals, aggregates, admixtures, and fibers.

b. Each plant shall use the same mix design. However, material proportions may be altered slightly in the field to meet slump and air content criteria. Field water adjustments shall not result in a difference that exceeds 0.02 between plants for water/cement ratio. The required cement factor for central-mixed concrete shall be increased to match truck-mixed or shrink-mixed concrete, if the latter two types of mixed concrete are used in the same pour.

c. The maximum slump difference between deliveries of concrete shall be 3/4 in. (19 mm) when tested at the jobsite. If the difference is exceeded, but test results are within specification limits, the concrete may be used. The Contractor shall take immediate corrective action and shall test subsequent deliveries of concrete until the slump difference is corrected. For each day, the first three truck loads of delivered concrete from each plant shall be tested for slump by the Contractor. Thereafter, when a specified test frequency for slump is to be performed, it shall be conducted for each plant at the same time.

d. The maximum air content difference between deliveries of concrete shall be 1.5 percent when tested at the jobsite. If the difference is exceeded, but test results are within specification limits, the concrete may be used. The Contractor shall take immediate corrective action and shall test subsequent deliveries of concrete until the air content difference is corrected. For each day, the first three truck loads of delivered concrete from each plant shall be tested for air content by the Contractor. Thereafter, when a specified test frequency for air content is to be performed, it shall be conducted for each plant at the same time.

e. Strength tests shall be performed and taken at the jobsite for each plant. When a specified strength test is to be performed, it shall be conducted for each plant at the same time. The difference between plants for their mean strength shall not exceed 450 psi (3100 kPa) compressive and 80 psi (550 kPa) flexural. The strength standard deviation for each plant shall not exceed 650 psi (4480 kPa) compressive and 110 psi (760 kPa) flexural. The mean and standard deviation requirements shall apply to the test of record. If the strength difference requirements are exceeded, the Contractor shall take corrective action.

f. The maximum haul time difference between deliveries of concrete shall be 15 minutes. If the difference is exceeded, but haul time is within specification limits, the concrete may be used. The Contractor shall take immediate corrective action and check subsequent deliveries of concrete until the haul time difference is corrected."

80170

PRECAST CONCRETE HANDLING HOLES (BDE)

Effective: January 1, 2007

Add the following to Article 540.02 of the Standard Specifications:

"(g) Handling Hole Plugs.....1042.16"

Add the following paragraph after the sixth paragraph of Article 540.06 of the Standard Specifications:

"Handling holes shall be filled with a precast concrete plug and sealed with mastic or mortar, or filled with a polyethylene plug. The plug shall not project beyond the inside surface after installation. When metal lifting inserts are used, their sockets shall be filled with mastic or mortar."

Add the following to Article 542.02 of the Standard Specifications:

"(ee) Handling Hole Plugs .....1042.16"

Revise the fifth paragraph of Article 542.04(d) of the Standard Specifications to read:

"Handling holes in concrete pipe shall be filled with a precast concrete plug and sealed with mastic or mortar; or filled with a polyethylene plug. The plug shall not project beyond the inside surface after installation."

Add the following to Article 550.02 of the Standard Specifications:

"(o) Handling Hole Plugs.....1042.16"

Replace the fourth sentence of the fifth paragraph of Article 550.06 of the Standard Specifications with the following:

"Handling holes in concrete pipe shall be filled with a precast concrete plug and sealed with mastic or mortar; or filled with a polyethylene plug. The plug shall not project beyond the inside surface after installation."

Add the following to Article 602.02 of the Standard Specifications:

"(p) Handling Hole Plugs..... 1042.16(a)"

Replace the fifth sentence of the first paragraph of Article 602.07 of the Standard Specifications with the following:

"Handling holes shall be filled with a precast concrete plug and sealed with mastic or mortar. The plug shall not project beyond the inside surface after installation. When metal lifting inserts are used, their sockets shall be filled with mastic or mortar."

Add the following to Section 1042 of the Standard Specifications:

"**1042.16 Handling Hole Plugs.** Plugs for handling holes in precast concrete products shall be as follows.

(a) Precast Concrete Plug. The precast concrete plug shall have a tapered shape and shall have a minimum compressive strength of 3000 psi (20,700 kPa) at 28 days.

(b) Polyethylene Plug. The polyethylene plug shall have a "mushroom" shape with a flat round top and a stem with three different size ribs. The plug shall fit snuggly and cover the handling hole.

The plug shall be according to the following.

Mechanical Properties	Test Method	Value (min.)
Flexural Modulus	ASTM D 790	3300 psi (22,750 kPa)
Tensile Strength (Break)	ASTM D 638	1600 psi (11,030 kPa)
Tensile Strength (Yield)	ASTM D 638	1200 psi (8270 kPa)

Thermal Properties	Test Method	Value (min.)
Brittle Temperature	ASTM D 746	-49 °F (-45 °C)
Vicat Softening Point	ASTM D 1525	194 °F (90 °C)"

80171

RECLAIMED ASPHALT PAVEMENT (RAP) (BDE)

Effective: January 1, 2007
Revised: August 1, 2007

In Article 1030.02(g), delete the last sentence of the first paragraph in (Note 2).

Revise Section 1031 of the Standard Specifications to read:

"SECTION 1031. RECLAIMED ASPHALT PAVEMENT

1031.01 Description. Reclaimed asphalt pavement (RAP) is reclaimed asphalt pavement resulting from cold milling or crushing of an existing dense graded hot-mix asphalt (HMA) pavement. The Contractor shall supply written documentation that the RAP originated from routes or airfields under federal, state, or local agency jurisdiction.

1031.02 Stockpiles. The Contractor shall construct individual, sealed RAP stockpiles meeting one of the following definitions. No additional RAP shall be added to the pile after the pile has been sealed. Stockpiles shall be sufficiently separated to prevent intermingling at the base. Stockpiles shall be identified by signs indicating the type as listed below (i.e. "Homogeneous Surface").

Prior to milling, the Contractor shall request the District to provide verification of the quality of the RAP to clarify appropriate stockpile.

(a) Homogeneous. Homogeneous RAP stockpiles shall consist of RAP from Class I, Superpave (High ESAL), HMA (High ESAL), or equivalent mixtures and represent: 1) the same aggregate quality, but shall be at least C quality; 2) the same type of crushed aggregate (either crushed natural aggregate, ACBF slag, or steel slag); 3) similar gradation; and 4) similar asphalt binder content. If approved by the Engineer, combined single pass surface/binder millings may be considered "homogenous" with a quality rating dictated by the lowest coarse aggregate quality present in the mixture.

(b) Conglomerate 5/8. Conglomerate 5/8 RAP stockpiles shall consist of RAP from Class I, Superpave (High ESAL), HMA (High ESAL), or equivalent mixtures. The coarse aggregate in this RAP shall be crushed aggregate and may represent more than one aggregate type and/or quality but shall be at least C quality. This RAP may have an inconsistent gradation and/or asphalt binder content prior to processing. All conglomerate 5/8 RAP shall be processed prior to testing by crushing to where all RAP shall pass the 5/8 in. (16 mm) or smaller screen. Conglomerate 5/8 RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.

(c) Conglomerate 3/8. Conglomerate 3/8 RAP stockpiles shall consist of RAP from Class I, Superpave (High ESAL), HMA (High ESAL), or equivalent mixtures. The coarse aggregate in this RAP shall be crushed aggregate and may represent more than one aggregate type and/or quality but shall be at least B quality. This RAP may have an

inconsistent gradation and/or asphalt binder content prior to processing. All conglomerate 3/8 RAP shall be processed prior to testing by crushing to where all RAP shall pass the 3/8 in. (9.5 mm) or smaller screen. Conglomerate 3/8 RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.

(d) Conglomerate "D" Quality (DQ). Conglomerate DQ RAP stockpiles shall consist of RAP from Class I, Superpave (High or Low ESAL), HMA (High or Low ESAL), or equivalent mixtures. The coarse aggregate in this RAP may be crushed or round but shall be at least D quality. This RAP may have an inconsistent gradation and/or asphalt binder content. Conglomerate DQ RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.

(e) Non-Quality. RAP stockpiles that do not meet the requirements of the stockpile categories listed above shall be classified as "Non-Quality".

RAP containing contaminants, such as earth, brick, sand, concrete, sheet asphalt, bituminous surface treatment (i.e. chip seal), pavement fabric, joint sealants, etc., will be unacceptable unless the contaminants are removed to the satisfaction of the Engineer. Sheet asphalt shall be stockpiled separately.

1031.03 Testing. When used in HMA, the RAP shall be sampled and tested either during or after stockpiling.

For testing during stockpiling, washed extraction samples shall be run at the minimum frequency of one sample per 500 tons (450 metric tons) for the first 2000 tons (1800 metric tons) and one sample per 2000 tons (1800 metric tons) thereafter. A minimum of five tests shall be required for stockpiles less than 4000 tons (3600 metric tons).

For testing after stockpiling, the Contractor shall submit a plan for approval to the District proposing a satisfactory method of sampling and testing the RAP pile either in-situ or by restockpiling. The sampling plan shall meet the minimum frequency required above and detail the procedure used to obtain representative samples throughout the pile for testing.

Before extraction, each field sample shall be split to obtain two samples of test sample size. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall extract the other test sample according to Department procedure. The Engineer reserves the right to test any sample (split or Department-taken) to verify Contractor test results.

(a) Testing Conglomerate 3/8. In addition to the requirements above, conglomerate 3/8 RAP shall be tested for maximum theoretical specific gravity (G_{mm}) at a frequency of one sample per 500 tons (450 metric tons) for the first 2000 tons (1800 metric tons) and one sample per 2000 tons (1800 metric tons) thereafter. A minimum of five tests shall be required for stockpiles less than 4000 tons (3600 metric tons).

(b) Evaluation of Test Results. All of the extraction results shall be compiled and averaged for asphalt binder content and gradation and, when applicable G_{mm}. Individual extraction test results, when compared to the averages, will be accepted if within the tolerances listed below.

Parameter	Homogeneous / Conglomerate	Conglomerate "D" Quality
1 in. (25 mm)		± 5 %
1/2 in. (12.5 mm)	± 8 %	± 15 %
No. 4 (4.75 mm)	± 6 %	± 13 %
No. 8 (2.36 mm)	± 5 %	
No. 16 (1.18 mm)		± 15 %
No. 30 (600 µm)	± 5 %	
No. 200 (75 µm)	± 2.0 %	± 4.0 %
Asphalt Binder	± 0.4 % 1/	± 0.5 %
G_{mm}	± 0.02 2/	

1/ The tolerance for conglomerate 3/8 shall be ± 0.3 %.

2/ Applies only to conglomerate 3/8. When variation of the G_{mm} exceeds the ± 0.02 tolerance, a new conglomerate 3/8 stockpile shall be created which will also require an additional mix design.

If more than 20 percent of the individual sieves are out of the gradation tolerances, or if more than 20 percent of the asphalt binder content test results fall outside the appropriate tolerances, the RAP shall not be used in HMA unless the RAP representing the failing tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

With the approval of the Engineer, the ignition oven may be substituted for extractions according to the Illinois Test Procedure, "Calibration of the Ignition Oven for the Purpose of Characterizing Reclaimed Asphalt Pavement (RAP)".

1031.04 Quality Designation of Aggregate in RAP. The quality of the RAP shall be set by the lowest quality of coarse aggregate in the RAP stockpile and are designated as follows.

(a) RAP from Class I, Superpave (High ESAL), or HMA (High ESAL) surface mixtures are designated as containing Class B quality coarse aggregate.

(b) RAP from Superpave (Low ESAL)/HMA (Low ESAL) IL-19.0L binder and IL-9.5L surface mixtures are designated as Class D quality coarse aggregate.

(c) RAP from Class I, Superpave (High ESAL), or HMA (High ESAL) binder mixtures, bituminous base course mixtures, and bituminous base course widening mixtures are designated as containing Class C quality coarse aggregate.

(d) RAP from bituminous stabilized subbase and BAM shoulders are designated as containing Class D quality coarse aggregate.

1031.05 Use of RAP in HMA. The use of RAP in HMA shall be as follows.

(a) Coarse Aggregate Size. The coarse aggregate in all RAP shall be equal to or less than the nominal maximum size requirement for the HMA mixture to be produced.

(b) Steel Slag Stockpiles. RAP stockpiles containing steel slag or other expansive material, as determined by the Department, shall be homogeneous and will be approved for use in HMA (High ESAL and Low ESAL) surface mixtures only.

(c) Use in HMA Surface Mixtures (High and Low ESAL). RAP stockpiles for use in HMA surface mixtures (High and Low ESAL) shall be either homogeneous or conglomerate 3/8, in which the coarse aggregate is Class B quality or better.

(d) Use in HMA Binder Mixtures (High and Low ESAL), HMA Base Course, and HMA Base Course Widening. RAP stockpiles for use in HMA binder mixtures (High and Low ESAL), HMA base course, and HMA base course widening shall be homogeneous, conglomerate 5/8, or conglomerate 3/8, in which the coarse aggregate is Class C quality or better.

(e) Use in Shoulders and Subbase. RAP stockpiles for use in HMA shoulders and stabilized subbase (HMA) shall be homogeneous, conglomerate 5/8, conglomerate 3/8, or conglomerate DQ.

(f) The use of RAP shall be a contractor's option when constructing HMA in all contracts. When the contractor chooses the RAP option, the percentage of RAP shall not exceed the amounts indicated in the table for a given N Design.

Max RAP Percentage

HMA MIXTURES [1/, 3/]	MAXIMUM % RAP		
Ndesign	Binder/Leveling Binder	Surface	Polymer Modified
30	30	30	10
50	25	15	10
70	15 / 25 [2/]	10 / 15 [2/]	10
90	10	10	10
105	10	10	10

1/ For HMA Shoulder and Stabilized Sub-Base (HMA) N-30, the amount of RAP shall not exceed 50% of the mixture.

2/ Value of Max % RAP if 3/8 RAP is utilized.

3/ When RAP exceeds 20%, the high & low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25% RAP would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28).

1031.06 HMA Mix Designs. At the Contractor's option, HMA mixtures may be constructed utilizing RAP material meeting the above detailed requirements.

RAP designs shall be submitted for volumetric verification. If additional RAP stockpiles are tested and found that no more than 20 percent of the results, as defined under "Testing" herein, are outside of the control tolerances set for the original RAP stockpile and HMA mix design, and meets all of the requirements herein, the additional RAP stockpiles may be used in the original mix design at the percent previously verified.

1031.07 HMA Production. The coarse aggregate in all RAP used shall be equal to or less than the nominal maximum size requirement for the HMA mixture being produced.

To remove or reduce agglomerated material, a scalping screen, crushing unit, or comparable sizing device approved by the Engineer shall be used in the RAP feed system to remove or reduce oversized material. If material passing the sizing device adversely affects the mix production or quality of the mix, the sizing device shall be set at a size specified by the Engineer.

If the RAP control tolerances or QC/QA test results require corrective action, the Contractor shall cease production of the mixture containing RAP and either switch to the virgin aggregate design or submit a new RAP design. When producing mixtures containing conglomerate 3/8 RAP, a positive dust control system shall be utilized.

HMA plants utilizing RAP shall be capable of automatically recording and printing the following information.

(a) Dryer Drum Plants.

(1) Date, month, year, and time to the nearest minute for each print.

(2) HMA mix number assigned by the Department.

(3) Accumulated weight of dry aggregate (combined or individual) in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).

(4) Accumulated dry weight of RAP in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).

(5) Accumualted mineral filler in revolutions, tons (metric tons), etc. to the nearest 0.1 unit.

(6) Accumulated asphalt binder in gallons (liters), tons (metric tons), etc. to the nearest 0.1 unit.

(7) Residual asphalt binder in the RAP material as a percent of the total mix to the nearest 0.1 percent.

(8) Aggregate and RAP moisture compensators in percent as set on the control panel. (Requied when accumulated or individual aggregate and RAP are printed in wet condition.)

(b) Batch Plants.

(1) Date, month, year, and time to the nearest minute for each print.

(2) HMA mix number assigned by the Department.

(3) Individual virgin aggregate hot bin batch weights to the nearest pound (kilogram).

(4) Mineral filler weight to the nearest pound (kilogram).

(5) RAP weight to the nearest pound (kilogram).

(6) Virgin asphalt binder weight to the nearest pound (kilogram).

(7) Residual asphalt binder in the RAP material as a percent of the total mix to the nearest 0.1 percent.

The printouts shall be maintained in a file at the plant for a minimum of one year or as directed by the Engineer and shall be made available upon request. The printing system will be inspected by the Engineer prior to production and verified at the beginning of each construction season thereafter.

1031.08 RAP in Aggregate Surface Course and Aggregate Shoulders. The use of RAP in aggregate surface course and aggregate shoulders shall be as follows.

(a) Stockpiles and Testing. RAP stockpiles may be any of those listed in Article 1031.02, except "Other". The testing requirements of Article 1031.03 shall not apply.

(b) Gradation. One hundred percent of the RAP material shall pass the 1 1/2 in. (37.5 mm) sieve. The RAP material shall be reasonably well graded from coarse to fine. RAP material that is gap-graded or single sized will not be accepted."

80172

REFLECTIVE SHEETING ON CHANNELIZING DEVICES (BDE)

Effective: April 1, 2007

Revise the seventh paragraph of Article 1106.02 of the Standard Specifications to read:

"At the time of manufacturing, the retroreflective prismatic sheeting used on channelizing devices shall meet or exceed the initial minimum coefficient of retroreflection as specified in the following table. Measurements shall be conducted according to ASTM E 810, without averaging. Sheeting used on cones, drums and flexible delineators shall be reboundable as tested according to ASTM D 4956. Prestriped sheeting for rigid substrates on barricades shall be white and orange.

Initial Minimum Coefficient of Retroreflection candelas/foot candle/sq ft (candelas/lux/sq m) of material				
Observation Angle (deg.)	Entrance Angle (deg.)	White	Orange	Fluorescent Orange
0.2	-4	365	160	150
0.2	+30	175	80	70
0.5	-4	245	100	95
0.5	+30	100	50	40"

Revise the first sentence of the first paragraph of Article 1106.02(c) of the Standard Specifications to read:

"Barricades and vertical panels shall have alternating white and orange stripes sloping downward at 45 degrees toward the side on which traffic will pass."

Revise the third sentence of the first paragraph of Article 1106.02(d) of the Standard Specifications to read:

"The bottom panels shall be 8 x 24 in. (200 x 600 mm) with alternating white and orange stripes sloping downward at 45 degrees toward the side on which traffic will pass."

80183

REINFORCEMENT BARS (BDE)

Effective: November 1, 2005
Revised: January 2, 2008

Revise Article 1006.10(a) of the Standard Specifications to read:

" (a) Reinforcement Bars. Reinforcement bars will be accepted according to the current Bureau of Materials and Physical Research Policy Memorandum, "Reinforcement Bar and/or Dowel Bar Plant Certification Procedure". The Department will maintain an approved list of producers.

(1) Reinforcement Bars (Non-Coated). Reinforcement bars shall be according to ASTM A 706 (A 706M), Grade 60 (420) for deformed bars and the following.

a. For straight bars furnished in cut lengths and with a well-defined yield point, the yield point shall be determined as the elastic peak load, identified by a halt or arrest of the load indicator before plastic flow is sustained by the bar and dividing it by the nominal cross-sectional area of the bar.

b. For bars without a well-defined yield point, including bars straightened from coils, the yield strength shall be determined by taking the corresponding load at 0.005 strain as measured by an extensometer (0.5% elongation under load) and dividing it by the nominal cross-sectional area of the bar.

c. For bars straightened from coils or bars bent from fabrication, there shall be no upper limit on yield strength; and for bar designation Nos. 3 - 6 (10 - 19), the elongation after rupture shall be at least 9%.

d. Heat Numbers. Bundles or bars at the construction site shall be marked or tagged with heat identification numbers of the bar producer.

e. Guided Bend Test. Bars may be subject to a guided bend test across two pins which are free to rotate, where the bending force shall be centrally applied with a fixed or rotating pin of a certain diameter as specified in Table 3 of ASTM A 706 (A 706M). The dimensions and clearances of this guided bend test shall be according to ASTM E 190.

f. Spiral Reinforcement. Spiral reinforcement shall be deformed or plain bars conforming to the above requirements or cold-drawn steel wire conforming to AASHTO M 32.

(2) Epoxy Coated Reinforcement Bars. Epoxy coated reinforcement bars shall be according to Article 1006.10(a)(1) and shall be epoxy coated according to AASHTO M 284 (M 284M) and the following.

a. Certification. The epoxy coating applicator shall be certified according to the current Bureau of Materials and Physical Research Policy Memorandum, "Epoxy Coating Plant Certification Procedure". The Department will maintain an approved list.

b. Coating Thickness. The thickness of the epoxy coating shall be 7 to 12 mils (0.18 to 0.30 mm). When spiral reinforcement is coated after fabrication, the thickness of the epoxy coating shall be 7 to 20 mils (0.18 to 0.50 mm).

c. Cutting Reinforcement. Reinforcement bars may be sheared or sawn to length after coating, providing the end damage to the coating does not extend more than 0.5 in. (13 mm) back and the cut is patched before any visible rusting appears. Flame cutting will not be permitted."

80151

SELF-CONSOLIDATING CONCRETE FOR CAST-IN-PLACE CONSTRUCTION (BDE)

Effective: November 1, 2005
Revised: January 1, 2007

Definition. Self-consolidating concrete is a flowable mixture that does not require mechanical vibration for consolidation.

Usage. Self-consolidating concrete may be used for cast-in-place concrete construction items involving Class MS, DS, and SI concrete.

Materials. Materials shall be according to Section 1021 of the Standard Specifications.

Mix Design Criteria. Article 1020.04 of the Standard Specifications shall apply, except as follows:

(a) The cement factor shall be according to Article 1020.04 of the Standard Specifications. If the maximum cement factor is not specified, it shall not exceed 7.05 cwt/cu yd (418 kg/cu m). The cement factor shall not be reduced if a water-reducing, retarding, or high range water-reducing admixture is used.

(b) The maximum allowable water/cement ratio shall be according to Article 1020.04 of the Standard Specifications or 0.44, whichever is lower.

(c) The slump requirements shall not apply.

(d) The coarse aggregate gradations shall be CA 13, CA 14, CA 16, or a blend of these gradations. CA 11 may be used when the Contractor provides satisfactory evidence to the Engineer that the mix will not segregate. The fine aggregate proportion shall be a maximum 50 percent by weight (mass) of the total aggregate used.

(e) The slump flow range shall be ± 2 in. (± 50 mm) of the Contractor target value, and within the overall Department range of 20 in. (510 mm) minimum to 28 in. (710 mm) maximum.

(f) The visual stability index shall be a maximum of 1.

(g) The J-ring value shall be a maximum of 4 in. (100 mm). The Contractor may specify a lower maximum in the mix design.

(h) The L-box blocking ratio shall be a minimum of 60 percent. The Contractor may specify a higher minimum in the mix design.

(i) The column segregation index shall be a maximum 15 percent.

(j) The hardened visual stability index shall be a maximum of 1.

Test Methods. Illinois Test Procedures SCC-1, SCC-2, SCC-3, SCC-4, SCC-5, SCC-6, and Illinois Modified AASHTO T 22, 23, 121, 126, 141, 152, 177, 196, and 309 shall be used for testing of self-consolidating concrete mixtures.

Mix Design Submittal. The Contractor's Level III PCC Technician shall submit a mix design according to the "Portland Cement Concrete Level III Technician" course manual, except target slump information is not applicable and will not be required. However, a slump flow target range shall be submitted. In addition, the design mortar factor may exceed 1.10 and durability test data will be waived.

A J-ring value shall be submitted if a lower mix design maximum will apply. An L-box blocking ratio shall be submitted if a higher mix design minimum will apply. The Contractor shall also indicate applicable construction items for the mix design.

Trial mixture information will be required by the Engineer. A trial mixture is a batch of concrete tested by the Contractor to verify the Contractor's mix design will meet specification requirements. Trial mixture information shall include test results as specified in the "Portland Cement Concrete Level III Technician" course manual. Test results shall also include slump flow, visual stability index, J-ring value, L-box blocking ratio, column segregation index, and hardened visual stability index. For the trial mixture, the slump flow shall be near the midpoint of the proposed slump flow target range.

Trial Batch. A minimum 2 cu yd (1.5 cu m) trial batch shall be produced, and the self-consolidating concrete admixture dosage proposed by the Contractor shall be used. The slump flow shall be within 1.0 in. (25 mm) of the maximum slump flow range specified by the Contractor, and the air content shall be within the top half of the allowable specification range.

The trial batch shall be scheduled a minimum of 21 calendar days prior to anticipated use and shall be performed in the presence of the Engineer.

The Contractor shall provide the labor, equipment, and materials to test the concrete. The mixture will be evaluated by the Engineer for strength, air content, slump flow, visual stability index, J-ring value, L-box blocking ratio, column segregation index, and hardened visual stability index.

Upon review of the test data from the trial batch, the Engineer will verify or deny the use of the mix design and notify the Contractor. Verification by the Engineer will include the Contractor's target slump flow range. If applicable, the Engineer will verify the Contractor's maximum J-ring value and minimum L-box blocking ratio.

A new trial batch will be required whenever there is a change in the source of any component material, proportions beyond normal field adjustments, dosage of the self-consolidating concrete admixture, batch sequence, mixing speed, mixing time, or as determined by the Engineer. The testing criteria for the new trial batch will be determined by the Engineer.

When necessary, the trial batches shall be disposed of according to Article 202.03 of the Standard Specifications.

Mixing Portland Cement Concrete. In addition to Article 1020.11 of the Standard Specifications, the mixing time for central-mixed concrete shall not be reduced as a result of a mixer performance test. Truck-mixed or shrink-mixed concrete shall be mixed in a truck mixer for a minimum of 100 revolutions.

Wash water, if used, shall be completely discharged from the drum or container before the succeeding batch is introduced.

The batch sequence, mixing speed, and mixing time shall be appropriate to prevent cement balls and mix foaming for central-mixed, truck-mixed, and shrink-mixed concrete.

Falsework and Forms. In addition to Articles 503.05 and 503.06 of the Standard Specifications, the Contractor shall consider the fluid nature of the concrete for designing the falsework and forms. Forms shall be tight to prevent leakage of fluid concrete.

Placing and Consolidating. Concrete placement and consolidation shall be according to Article 503.07 of the Standard Specifications, except as follows:

Revise the third paragraph of Article 503.07 of the Standard Specifications to read:

"Open troughs and chutes shall extend as nearly as practicable to the point of deposit. The drop distance of concrete shall not exceed 5 ft (1.5 m). If necessary, a tremie shall be used to meet this requirement. The maximum distance of horizontal flow from the point of deposit shall be 25 ft (7.6 m), unless approved otherwise by the Engineer. For drilled shafts, free fall placement will not be permitted."

Delete the seventh, eighth, ninth, and tenth paragraphs of Article 503.07 of the Standard Specifications.

Add to the end of the eleventh paragraph of Article 503.07 of the Standard Specifications the following:

"Concrete shall be rodded with a piece of lumber, conduit, or vibrator if the material has lost its fluidity prior to placement of additional concrete. The vibrator shall be the pencil head type with a maximum diameter or width of 1 in. (25 mm). Any other method for restoring the fluidity of the concrete shall be approved by the Engineer."

Quality Control by Contractor at Plant. The specified test frequencies for aggregate gradation, aggregate moisture, air content, unit weight/yield, and temperature shall be performed as indicated in the contract plans.

Slump flow, visual stability index, and J-ring or L-box tests shall be performed as needed to control production. The column segregation index test and hardened visual stability index test will not be required to be performed at the plant.

Quality Control by Contractor at Jobsite. The specified test frequencies for air content, strength, and temperature shall be performed as indicated in the contract plans.

Slump flow, visual stability index, and J-ring or L-box tests shall be performed on the first two truck deliveries of the day, and every 50 cu yd (40 cu m) thereafter. The Contractor shall select either the J-ring or L-box test for jobsite testing.

The column segregation index test will not be required to be performed at the jobsite. The hardened visual stability index test shall be performed on the first truck delivery of the day, and every 300 cu yd (230 cu m) thereafter. Slump flow, visual stability index, J-ring value or L-box blocking ratio, air content, and concrete temperature shall be recorded for each hardened visual stability index test.

The Contractor shall retain all hardened visual stability index cut cylinder specimens until the Engineer notifies the Contractor that the specimens may be discarded.

If mix foaming or other potential detrimental material is observed during placement or at the completion of the pour, the material shall be removed while the concrete is still plastic.

Quality Assurance by Engineer at Plant. For air content and aggregate gradation, quality assurance independent sample testing and split sample testing will be performed as indicated in the contract plans.

For slump flow, visual stability index, and J-ring or L-box tests, quality assurance independent sample testing and split sample testing will be performed as determined by the Engineer.

Quality Assurance by Engineer at Jobsite. For air content and strength, quality assurance independent sample testing and split sample testing will be performed as indicated in the contract plans.

For slump flow, visual stability index, J-ring or L-box, and hardened visual stability index tests, quality assurance independent sample testing will be performed as determined by the Engineer.

For slump flow and visual stability index quality assurance split sample testing, the Engineer will perform tests at the beginning of the project on the first three tests performed by the Contractor. Thereafter, a minimum of ten percent of total tests required of the Contractor will be performed per plant, which will include a minimum of one test per mix design. The acceptable limit of precision will be 1.5 in. (40 mm) for slump flow and a limit of precision will not apply to the visual stability index.

For the J-ring or the L-box quality assurance split sample testing, a minimum of 80 percent of the total tests required of the Contractor will be witnessed by the Engineer per plant, which will

include a minimum of one witnessed test per mix design. The Engineer reserves the right to conduct quality assurance split sample testing. The acceptable limit of precision will be 1.5 in. (40 mm) for the J-ring value and ten percent for the L-box blocking ratio.

For each hardened visual stability index test performed by the Contractor, the cut cylinders shall be presented to the Engineer for determination of the rating. The Engineer reserves the right to conduct quality assurance split sample testing. A limit of precision will not apply to the hardened visual stability index.

80152

SELF-CONSOLIDATING CONCRETE FOR PRECAST PRODUCTS (BDE)

Effective: July 1, 2004
Revised: January 1, 2007

Definition. Self-consolidating concrete is a flowable mixture that does not require mechanical vibration for consolidation.

Usage. Self-consolidating concrete may be used for precast concrete products.

Materials. Materials shall be according to Section 1021 of the Standard Specifications.

Mix Design Criteria. The mix design criteria shall be as follows:

(a) The minimum cement factor shall be according to Article 1020.04 of the Standard Specifications. If the maximum cement factor is not specified, it shall not exceed 7.05 cwt/cu yd (418 kg/cu m).

(b) The maximum allowable water/cement ratio shall be according to Article 1020.04 of the Standard Specifications or 0.44, whichever is lower.

(c) The slump requirements of Article 1020.04 of the Standard Specifications shall not apply.

(d) The coarse aggregate gradations shall be CA 13, CA 14, CA 16, or a blend of these gradations. CA 11 may be used when the Contractor provides satisfactory evidence to the Engineer that the mix will not segregate. The fine aggregate proportion shall be a maximum 50 percent by weight (mass) of the total aggregate used.

(e) The slump flow range shall be ± 2 in. (± 50 mm) of the Contractor target value, and within the overall Department range of 20 in. (510 mm) minimum to 28 in. (710 mm) maximum.

(f) The visual stability index shall be a maximum of 1.

(g) The J-ring value shall be a maximum of 4 in. (100 mm). The Contractor may specify a lower maximum in the mix design.

(h) The L-box blocking ratio shall be a minimum of 60 percent. The Contractor may specify a higher minimum in the mix design.

(i) The column segregation index shall be a maximum 15 percent.

(j) The hardened visual stability index shall be a maximum of 1.

Placing and Consolidating. The maximum distance of horizontal flow from the point of deposit shall be 25 ft (7.6 m), unless approved otherwise by the Engineer.

Concrete shall be rodded with a piece of lumber, conduit, or vibrator if the material has lost its fluidity prior to placement of additional concrete. The vibrator shall be the pencil head type with a maximum diameter or width of 1 in. (25 mm). Any other method for restoring the fluidity of the concrete shall be approved by the Engineer.

Mix Design Approval. The Contractor shall obtain mix design approval according to the Department's Policy Memorandum "Quality Control/Quality Assurance Program for Precast Concrete Products".

80132

STONE GRADATION TESTING (BDE)

Effective: November 1, 2007

Revise the first sentence of note 1/ of the Erosion Protection and Sediment Control Gradations table of Article 1005.01(c)(1) of the Standard Specifications to read:

"A maximum of 15 percent of the total test sample by weight may be oversize material."

80191

SUBCONTRACTOR MOBILIZATION PAYMENTS (BDE)

Effective: April 2, 2005

To account for the preparatory work and operations necessary for the movement of subcontractor personnel, equipment, supplies, and incidentals to the project site and for all other work or operations that must be performed or costs incurred when beginning work approved for subcontracting in accordance with Article 108.01 of the Standard Specifications, the Contractor shall make a mobilization payment to each subcontractor.

This mobilization payment shall be made at least 14 days prior to the subcontractor starting work. The amount paid shall be equal to 3 percent of the amount of the subcontract reported on form BC 260A submitted for the approval of the subcontractor's work.

This provision shall be incorporated directly or by reference into each subcontract approved by the Department.

80143

TEMPORARY EROSION CONTROL (BDE)

Effective: November 1, 2002
Revised: January 1, 2008

Revise the third paragraph of Article 280.03 of the Standard Specifications to read:

"Erosion control systems shall be installed prior to beginning any activities which will potentially create erodible conditions. Erosion control systems for areas outside the limits of construction such as storage sites, plant sites, waste sites, haul roads, and Contractor furnished borrow sites shall be installed prior to beginning soil disturbing activities at each area. These offsite systems shall be designed by the Contractor and be subject to the approval of the Engineer."

Add the following paragraph after the third paragraph of Article 280.03 of the Standard Specifications:

"The temporary erosion and sediment control systems shown on the plans represent the minimum systems anticipated for the project. Conditions created by the Contractor's operations, or for the Contractor's convenience, which are not covered by the plans, shall be protected as directed by the Engineer at no additional cost to the Department. Revisions or modifications of the erosion and sediment control systems shall have the Engineer's written approval."

Add the following paragraph after the ninth paragraph of Article 280.07 of the Standard Specifications:

"Temporary or permanent erosion control systems required for areas outside the limits of construction will not be measured for payment."

Delete the tenth (last) paragraph of Article 280.08 of the Standard Specifications.

80087

TRAFFIC SIGNAL GROUNDING (BDE)

Effective: April 1, 2006
Revised: January 1, 2007

Revise Article 873.02 of the Standard Specifications to read:

"**873.02 Materials.** Materials shall be according to the following.

Item	Article/Section
(a) Electric Cable – Signal, Lead-in, Communication, Service, and Equipment Grounding Conductor	1076.04
(b) Electrical Raceway Materials	1088.01"

Revise Article 873.04 of the Standard Specifications to read:

"**873.04 Grounding System.** All traffic signal circuits shall include an equipment grounding conductor according to Article 801.04. The equipment grounding conductor shall consist of a continuous, green, insulated conductor Type XLP, No. 6 AWG, stranded copper installed in raceways and bonded to each metal enclosure (handhole, post, mast arm pole, signal cabinet, etc.). All clamps shall be bronze or copper, UL approved.

A grounding cable with connectors shall be installed between each handhole cover and frame. The grounding cable shall be looped over cable hooks installed in the handholes and 5 ft (1.5 m) of extra cable shall be provided between the frame and cover.

All equipment grounding conductors shall terminate at the ground bus in the controller cabinet. The neutral conductor and the equipment grounding conductor shall be connected in the service installation. At no other point in the traffic signal system shall the neutral and equipment grounding conductors be connected."

Revise Article 873.05 of the Standard Specifications to read:

"**873.05 Method of Measurement.** Electric cable will be measured for payment in feet (meters) in place. The length of measurement shall be the distance horizontally and vertically measured between the changes in direction, including cables in mast arms, mast arm poles, signal posts, and extra cable length as specified in Article 873.03. The vertical cable length shall be measured according to the following schedule.

Location	Cable Length
Foundation (signal post, mast arm pole, controller cabinet)	3 ft (1 m)
Mast Arm Pole (mast arm mounted signal head)	20 ft (6 m)
Mast Arm Pole (bracket mounted signal head attached to mast arm pole)	13 ft (4 m)
Signal Post (bracket or post mounted signal head)	13 ft (4 m)
Pedestrian Push Button	6 ft (2 m)"

Add the following Article to Section 873 of the Standard Specifications:

"**873.06 Basis of Payment.** This work will be paid for at the contract unit price per foot (meter) for ELECTRIC CABLE, of the method of installation (IN TRENCH, IN CONDUIT, or AERIAL SUSPENDED), of the type, size, and number of conductors specified.

The type specified will indicate the method of installation and whether the electric cable is Service, Signal, Lead-in, Communication, or Equipment Grounding Conductor."

Revise the heading of Article 1076.04 of the Standard Specifications to read:

"**1076.04 Electric Cable – Signal, Lead-in, Communication, Service, and Equipment Grounding Conductor.**"

Add the following paragraph to the end of Article 1076.04 of the Standard Specifications:

"(e) Equipment Grounding Conductor. The cross linked polyethylene (XLP) insulated conductor shall be according to Articles 1066.02 and 1066.03. The stranded copper conductor shall be No. 6 AWG and the insulation color shall be green."

80161

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 3 . 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.

20338

WATER BLASTER WITH VACUUM RECOVERY (BDE)

Effective: April 1, 2006
Revised: January 1, 2007

Add the following to Article 783.02 of the Standard Specifications.

"(c) Water Blaster with Vacuum Recovery ..... 1101.12"

Revise Article 1101.12 of the Standard Specifications to read.

"**1101.12 Water Blaster with Vacuum Recovery.** The water blaster shall remove the stripe from the pavement using a high pressurized water spray with a vacuum recovery system to provide a clean, almost dry surface, without the use of a secondary cleanup process. The removal shall be to the satisfaction of the Engineer. The equipment shall contain a storage system that allows for the storage of the wastewater while retaining the debris. The operator shall be in immediate control of the blast head."

80163

REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS

I. GENERAL

1. These contract provisions shall apply to all word performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

2. Except as otherwise provided for in each section, the contractor shall insert in each subcontract all of the stipulations contained in these Required Contract Provisions, and further require their inclusion in any lower tier subcontract or purchase order that may in turn be made. The Required Contract Provisions shall not be incorporated by reference in any case. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with these Required Contract Provisions.

3. A breach of any of the stipulations contained in these Required Contract Provisions shall be sufficient grounds for termination of the contract.

4. A breach of the following clauses of the Required Contract Provisions may also be grounds for debarment as provided in 29 CFR 5.12:

Section I, paragraph 2;
Section IV, paragraphs 1, 2, 3, 4 and 7;
Section V, paragraphs 1 and 2a through 2g.

5. Disputes arising out of the labor standards provisions of Section IV (except paragraph 5) and Section V of these Required Contract Provisions shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the U.S. Department of Labor (DOL) as set forth in 29 CFR 5, 6 and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the DOL, or the contractor's employees or their representatives.

6. Selection of Labor: During the performance of this contract, the contractor shall not:

a. Discriminate against labor from any other State, possession, or territory of the United States (except for employment preference for Appalachian contracts, when applicable, as specified in Attachment A), or

b. Employ convict labor for any purpose within the limits of the project unless it is labor performed by convicts who are on parole, supervised release, or probation.

II. NONDISCRIMINATION

(Applicable to all Federal-aid construction contracts and to all related subcontracts of $10,000 or more.)

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630 and 41 CFR 60 (and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The Equal Opportunity Construction Contract Specifications set forth under 41 CFR 60-4.3 and the provisions of the American Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the State highway agency (SHA) and the Federal Government in carrying out EEO obligations and in their review of his/her activities under the contract.

b. The contractor will accept as his operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, preapprenticeship, and/or on-the-job-training."

2. EEO Officer: The contractor will designate and make known to the SHA contracting officers an EEO Officer who will have the responsibility for an must be capable of effectively administering and promoting an active contractor program of EEO and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above

agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minority group employees.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minority groups in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employees referral sources likely to yield qualified minority group applicants. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish which such identified sources procedures whereby minority group applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, he is expected to observe the provisions of that agreement to the extent that the system permits the contractor's compliance with EEO contract provisions. (The DOL has held that where implementation of such agreements have the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Executive Order 11246, as amended.)

c. The contractor will encourage his present employees to refer minority group applicants for employment. Information and procedures with regard to referring minority group applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with his obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of his avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minority group and women employees, and applicants for employment.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision.

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of minority group and women employees and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use his/her best efforts to obtain the cooperation of such unions to increase opportunities for minority groups and women within the unions, and to effect referrals by such unions of minority and female employees. Actions by the contractor either directly or through a contractor's association acting as agent will include the procedures set forth below:

a. The contractor will use best efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minority group members and women for membership in the unions and increasing the skills of minority group employees and women so that they may qualify for higher paying employment.

b. The contractor will use best efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to

the SHA and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of minority and women referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or quailifiable minority group persons and women. (The DOL has held that it shall be no excuse that the union with which the contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority employees.) In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the SHA.

8. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment.

a. The contractor shall notify all potential subcontractors and suppliers of his/her EEO obligations under this contract.

b. Disadvantaged business enterprises (DBE), as defined in 49 CFR 23, shall have equal opportunity to compete for and perform subcontracts which the contractor enters into pursuant to this contract. The contractor will use his best efforts to solicit bids from and to utilize DBE subcontractors or subcontractors with meaningful minority group and female representation among their employees. Contractors shall obtain lists of DBE construction firms from SHA personnel.

c. The contractor will use his best efforts to ensure subcontractor compliance with their EEO obligations.

9. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives of the SHA and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women;

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minority and female employees; and

(4) The progress and efforts being made in securing the services of DBE subcontractors or subcontractors with meaningful minority and female representation among their employees.

b. The contractors will submit an annual report to the SHA each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data.

III. NONSEGREGATED FACILITIES

(Applicable to all Federal-aid construction contracts and to all related subcontracts of $10,000 or more.)

a. By submission of this bid, the execution of this contract or subcontract, or the consummation of this material supply agreement or purchase order, as appropriate, the bidder, Federal-aid construction contractor, subcontractor, material supplier, or vendor, as appropriate, certifies that the firm does not maintain or provide for its employees any segregated facilities at any of its establishments, and that the firm does not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. The firm agrees that a breach of this certification is a violation of the EEO provisions of this contract. The firm further certifies that no employee will be denied access to adequate facilities on the basis of sex or disability.

b. As used in this certification, the term “segregated facilities” means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, timeclocks, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive, or are, in fact, segregated on the basis of race, color, religion, national origin, age or disability, because of habit, local custom, or otherwise. The only exception will be for the disabled when the demands for accessibility override (e.g. disabled parking).

c. The contractor agrees that it has obtained or will obtain identical certification from proposed subcontractors or material suppliers prior to award of subcontracts or consummation of material supply agreements of $10,000 or more and that it will retain such certifications in its files.

IV. PAYMENT OF PREDETERMINED MINIMUM WAGE

(Applicable to all Federal-aid construction contracts exceeding $2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural minor collectors, which are exempt.)

1. General:

a. All mechanics and laborers employed or working upon the site of the work will be paid unconditionally and not less often than once a week and without subsequent deduction or rebate on any account [except such payroll deductions as are permitted by regulations (29 CFR 3) issued by the Secretary of Labor under the Copeland Act (40 U.S.C. 276c)] the full amounts of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment. The payment shall be computed at wage rates not less than those contained in the wage determination of the Secretary of Labor (hereinafter “the wage determination”) which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the

contractor or its subcontractors and such laborers and mechanics. The wage determination (including any additional classifications and wage rates conformed under paragraph 2 of this Section IV and the DOL poster (WH-1321) or Form FHWA-1495) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers. For the purpose of this Section, contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act (40 U.S.C. 276a) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of Section IV, paragraph 3b, hereof. Also, for the purpose of this Section, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs, which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in paragraphs 4 and 5 of this Section IV.

b. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein, provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed.

c. All rulings and interpretations of the Davis-Bacon Act and related acts contained in 29 CFR 1, 3, and 5 are herein incorporated by reference in this contract.

2. Classification:

a. The SHA contracting officer shall require that any class of laborers or mechanics employed under the contract, which is not listed in the wage determination, shall be classified in conformance with the wage determination.

b. The contracting officer shall approve an additional classification, wage rate and fringe benefits only when the following criteria have been met:

(1) the work to be performed by the additional classification requested is not performed by a classification in the wage determination;

(2) the additional classification is utilized in the area by the construction industry;

(3) the proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination; and

(4) with respect to helpers, when such a classification prevails in the area in which the work is performed.

c. If the contractor or subcontractors, as appropriate, the laborers and mechanics (if known) to be employed in the additional classification or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the DOL, Administrator of the Wage and Hour Division, Employment Standards Administration, Washington, D.C. 20210. The Wage and Hour Administrator, or an authorized representative, will approve, modify, or

disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

d. In the event the contractor or subcontractors, as appropriate, the laborers or mechanics to be employed in the additional classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the question, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. Said Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advised the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

e. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 2c or 2d of this Section IV shall be paid to all workers performing work in the additional classification from the first day on which work is performed in the classification.

3. Payment of Fringe Benefits:

a. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor or subcontractors, as appropriate, shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly case equivalent thereof.

b. If the contractor or subcontractor, as appropriate, does not make payments to a trustee or other third person, he/she may consider as a part of the wages of any laborer or mechanic the amount of any cost reasonably anticipated in providing bona fide fringe benefits under a plan or program, provided that the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

4. Apprentices and Trainees (Programs of the U.S. DOL) and Helpers:

a. Apprentices:

(1) Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the DOL, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State apprenticeship agency recognized by the Bureau, or if a person is employed in his/her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State apprenticeship agency (where appropriate) to be eligible for probationary employment as an apprentice.

(2) The allowable ratio of apprentices to journeyman-level employees on the job site in any craft classification shall not

be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any employee listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate listed in the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor or subcontractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman-level hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

(3) Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeyman-level hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator for the Wage and Hour Division determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

(4) In the event the Bureau of Apprenticeship and Training, or a State apprenticeship agency recognized by the Bureau, withdraws approval of an apprenticeship program, the contractor or subcontractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the comparable work performed by regular employees until an acceptable program is approved.

b. Trainees:

(1) Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the DOL, Employment and Training Administration.

(2) The ratio of trainees to journeyman-level employees on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

(3) Every trainee must be paid at not less than the rate specified in the approved program for his/her level of progress, expressed as a percentage of the journeyman-level hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe 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-level wage rate on the wage determination which provides for less than full fringe benefits for apprentices, in which cases such trainees shall receive the same fringe benefits as apprentices.

(4) In the event the Employment and Training Administration withdraws approval of a training program, the contractor or subcontractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Helpers:
Helpers will be permitted to work on a project if the helper classification is specified and defined on the applicable wage determination or is approved pursuant to the conformance procedure set forth in Section IV. 2. Any worker listed on a payroll at a helper wage rate, who is not a helper under a approved definition, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed.

5. Apprentices and Trainees (Programs of the U.S. DOT):

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

6. Withholding:

The SHA shall upon its own action or upon written request of an authorized representative of the DOL withhold, or cause to be withheld, from the contractor or subcontractor under this contract or any other Federal contract with the same prime contractor or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements which is held by the same prime contractor, as much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainee's and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the SHA contracting officer may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

7. Overtime Requirements:

No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers, mechanics, watchmen, or guards (including apprentices, trainees, and helpers described in paragraphs 4 and 5 above) shall require or permit any laborer, mechanic, watchman, or guard in any workweek in which he/she is employed on such work, to work in excess of 40 hours in such workweek unless such laborer, mechanic, watchman, or guard receives compensation at a rate not less than one-and-one-half times his/her basic rate of pay for all hours worked in excess of 40 hours in such workweek.

8. Violation:

Liability for Unpaid Wages; Liquidated Damages: In the event of any violation of the clause set forth in paragraph 7 above, the contractor and any subcontractor responsible thereof shall be liable to the affected employee for his/her unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory) for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer, mechanic, watchman, or guard employed in violation of the clause set forth in paragraph 7, in the sum of $10 for each calendar day on which such employee was required or permitted to work in excess of the standard work week of 40 hours without payment of the overtime wages required by the clause set forth in paragraph 7.

9. Withholding for Unpaid Wages and Liquidated Damages:

The SHA shall; upon its own action or upon written request of any authorized representative of the DOL withhold, or cause to be withheld, from any monies payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph 8 above.

V. STATEMENTS AND PAYROLLS

(Applicable to all Federal-aid construction contracts exceeding $2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural collectors, which are exempt.)

1. Compliance with Copeland Regulations (29 CFR 3):

The contractor shall comply with the Copeland Regulations of the Secretary of Labor which are herein incorporated by reference.

2. Payrolls and Payroll Records:

a. Payrolls and basic records relating thereto shall be maintained by the contractor and each subcontractor during the course of the work and preserved for a period of 3 years from the date of completion of the contract for all laborers, mechanics, apprentices, trainees, watchmen, helpers, and guards working at the site of the work.

b. The payroll records shall contain the name, social security number, and address of each such employee; his or her correct classification; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalent thereof the types described in Section 1(b)(2)(B) of the Davis Bacon Act); daily and weekly number of hours worked; deductions made; and actual wages paid. In addition, for Appalachian contracts, the payroll records shall contain a notation indicating whether the employee does, or does not, normally reside in the labor area as defined in Attachment A, paragraph 1. Whenever the Secretary of Labor, pursuant to Section IV, paragraph 3b, has found that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in Section 1(b)(2)(B) of the Davis Bacon Act, the contractor and each subcontractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, that the plan or program has been communicated in writing to the laborers or mechanics affected, and show the cost anticipated or the actual cost incurred in providing benefits. Contractors or subcontractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprentices and trainees, and ratios and wage rates prescribed in the applicable programs.

c. Each contractor and subcontractor shall furnish, each week in which any contract work is performed, to the SHA resident engineer a payroll of wages paid each of its employees (including apprentices trainees, and helpers, described in Section IV, paragraphs 4 and 5, and watchmen and guards engaged on work during the preceding weekly payroll period).

The payroll submitted shall set out accurately and completely all of the information required to be maintained under paragraph 2b of this Section V.

This information may be submitted in any form desired. Optional Form WH-347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal stock number 029-005-0014-1), U.S. Government Printing Office, Washington, D.C. 20402. The prime contractor is responsible for the submission of copies of payrolls by all suncontractors.

d. Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the Contractor or subcontractor or his/her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) that the payroll for the payroll period contains the information required to be maintained under paragraph 2b of this Section V and that such information is correct and complete;

(2) that such laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in the Regulations, 29 CFR 3;

(3) that each laborer or mechanic has been paid not less that the applicable wage rate and fringe benefits or cash equivalent for the classification of worked performed, as specified in the applicable wage determination incorporated into the contract.

e. The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 2d of this Section V.

f. The falsification of any of the above certifications may subject the contractor to civil or criminal prosecution under 18 U/S. C. 1001 and 31 U.S.C. 231.

g. The contractor or subcontractor shall make the records required under paragraph 2b of this Section V available for

inspection, copying, or transcription by authorized representatives of the SHA, the FHWA, or the DOL, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the SHA, the FHWA, the DOL, or all may, after written notice to the contractor, sponsor, applicant, or owner, take such actions as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

VI. RECORD OF MATERIALS, SUPPLIES, AND LABOR

1. On all federal-aid contracts on the national highway system, except those which provide solely for the installation of protective devices at railroad grade crossings, those which are constructed on a force account or direct labor basis, highway beautification contracts, and contracts for which the total final construction cost for roadway and bridge is less than $1,000,000 (23 CFR 635) the contractor shall:

a. Become familiar with the list of specific materials and supplies contained in Form FHWA-47, "Statement of Materials and Labor Used by Contractor of Highway Construction Involving Federal Funds," prior to the commencement of work under this contract.

b. Maintain a record of the total cost of all materials and supplies purchased for and incorporated in the work, and also of the quantities of those specific materials and supplies listed on Form FHWA-47, and in the units shown on Form FHWA-47.

c. Furnish, upon the completion of the contract, to the SHA resident engineer on /Form FHWA-47 together with the data required in paragraph 1b relative to materials and supplies, a final labor summary of all contract work indicating the total hours worked and the total amount earned.

2. At the prime contractor's option, either a single report covering all contract work or separate reports for the contractor and for each subcontract shall be submitted.

VII. SUBLETTING OR ASSIGNING THE CONTRACT

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the State. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractors' own organization (23 CFR 635).

a. "Its own organization" shall be construed to include only workers employed and paid directly by the prime contractor and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor, assignee, or agent of the prime contractor.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph 1 of Section VII is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the SHA contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the SHA contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract.

Written consent will be given only after the SHA has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

VIII. SAFETY: ACCIDENT PREVENTION

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the SHA contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S. C. 333).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 333).

IX. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification,

distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, the following notice shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

NOTICE TO ALL PERSONNEL ENGAGED ON FEDERAL-AID HIGHWAY PROJECTS

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined not more than $10,000 or imprisoned not more than 5 years or both."

X. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

(Applicable to all Federal-aid construction contracts and to all related subcontracts of $100,000 or more).

By submission of this bid or the execution of this contract, or subcontract, as appropriate, the bidder, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any facility that is or will be utilized in the performance of this contract, unless such contract is exempt under the Clean Air Act, as amended (42 U.S.C. 1857 et seq., as amended by Pub.L. 91-604), and under the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et seq., as amended by Pub.L. 92-500), Executive Order 11738, and regulations in implementation thereof (40 CFR 15) is not listed, on the date of contract award, on the U.S. Environmental Protection Agency (EPA) List of Violating Facilities pursuant to 40 CFR 15.20.

2. That the firm agrees to comply and remain in compliance with all the requirements of Section 114 of the Clean Air Act and Section 308 of the Federal Water Pollution Control Act and all regulations and guidelines listed thereunder.

3. That the firm shall promptly notify the SHA of the receipt of any communication from the Director, Office of Federal Activities, EPA indicating that a facility that is or will be utilized for the contract is under consideration to be listed on the EPA List of Violating Facilities.

4. That the firm agrees to include or cause to be included the requirements of paragraph 1 through 4 of this Section X in every nonexempt subcontract, and further agrees to take such action as the government may direct as a means of enforcing such requirements.

XI. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

1. Instructions for Certification - Primary Covered Transactions:

(Applicable to all Federal-aid contracts - 49 CFR 29)

a. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause of default.

d. The prospective primary participant shall provide immediate written notice to the department or agency to whom this proposal is submitted if any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible,""lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the department or agency to which this proposal is submitted for assistance in obtaining a copy of those regulations.

f. The prospective primary participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled

"Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the nonprocurement portion of the "Lists of Parties Excluded from Federal Procurement or Nonprocurement Programs" (Nonprocurement List) which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph f of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

******

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Primary Covered Transactions

1. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

b. Have not within a 3-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1b of this certification; and

d. Have not within a 3-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

******

2. Instructions for Certification - Lower Tier Covered Transactions:

(Applicable to all subcontracts, purchase orders and other lower tier transactions of $25,000 or more - 49 CFR 29)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "primary covered transaction," "participant," "person," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.

e. The prospective lower tie participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealing.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily

excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

******

Certification Regarding Debarment, Suspension, Ineligibility And Voluntary Exclusion-Lower Tier Covered Transactions:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

******

XII. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

(Applicable to all Federal-aid construction contracts and to all related subcontracts which exceed $100,000 - 49 CFR 20)

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, “Disclosure Form to Report Lobbying,” in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

3. The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed $100,000 and that all such recipients shall certify and disclose accordingly.

MINIMUM WAGES FOR FEDERAL AND FEDERALLY ASSISTED CONSTRUCTION CONTRACTS

This project is funded, in part, with Federal-aid funds and, as such, is subject to the provisions of the Davis-Bacon Act of March 3, 1931, as amended (46 Sta. 1494, as amended, 40 U.S.C. 276a) and of other Federal statutes referred to in a 29 CFR Part 1, Appendix A, as well as such additional statutes as may from time to time be enacted containing provisions for the payment of wages determined to be prevailing by the Secretary of Labor in accordance with the Davis-Bacon Act and pursuant to the provisions of 29 CFR Part 1. The prevailing rates and fringe benefits shown in the General Wage Determination Decisions issued by the U.S. Department of Labor shall, in accordance with the provisions of the foregoing statutes, constitute the minimum wages payable on Federal and federally assisted construction projects to laborers and mechanics of the specified classes engaged on contract work of the character and in the localities described therein.

General Wage Determination Decisions, modifications and supersedes decisions thereto are to be used in accordance with the provisions of 29 CFR Parts 1 and 5. Accordingly, the applicable decision, together with any modifications issued, must be made a part of every contract for performance of the described work within the geographic area indicated as required by an applicable DBRA Federal prevailing wage law and 29 CFR Part 5. The wage rates and fringe benefits contained in the General Wage Determination Decision shall be the minimum paid by contractors and subcontractors to laborers and mechanics.

NOTICE

The most current **General Wage Determination Decisions** (wage rates) are available on the IDOT web site. They are located on the Letting and Bidding page at http://www.dot.state.il.us/desenv/delett.html.

In addition, ten (10) days prior to the letting, the applicable Federal wage rates will be e-mailed to subscribers. It is recommended that all contractors subscribe to the Federal Wage Rates List or the Contractor's Packet through IDOT's subscription service.

PLEASE NOTE: if you have already subscribed to the Contractor's Packet you will automatically receive the Federal Wage Rates.

The instructions for subscribing are at http://www.dot.state.il.us/desenv/subsc.html.

If you have any questions concerning the wage rates, please contact IDOT's Chief Contract Official at 217-782-7806.