

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

PREQUALIFICATION

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

REQUESTS FOR AUTHORIZATION TO BID

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

Each addendum will be placed with the contract number. Addenda will also be placed on the Addendum/Revision Checksheet and each subscription service subscriber will be notified by e-mail of each addendum 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 Roseanne Nance (217)-785-5875 or nancer@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 | 217/785-5875 |

ADDENDUMS TO THE PROPOSAL FORMS

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

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RETURN WITH BID

| |
|-----------------------|
| Proposal Submitted By |
| Name |
| Address |
| City |

Letting March 11, 2005

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. 64647
ROCK ISLAND County
Section 1-3-K
District 2 Construction Funds
Route FAP 595

PLEASE MARK THE APPROPRIATE BOX BELOW:

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

Prepared by

S

Checked by

(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
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| Mailing of CD-ROMS | 217/782-7806 |

RETURN WITH BID



PROPOSAL

TO THE DEPARTMENT OF TRANSPORTATION

1. Proposal of _____

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

**Contract No. 64647
ROCK ISLAND County
Section 1-3-K
Route FAP 595
District 2 Construction Funds**

Construction of 1.47 miles of four lanes of 2 @ 24 feet and variable width concrete pavement (jointed) along IL Route 5 (Milan Beltway) and construction of a 2 span (1 @ 90'-9" and 1 @ 108'-3") bridge carrying 52nd Avenue over Milan Beltway in Moline.

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

RETURN WITH BID

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

| | <u>Amount of Bid</u> | <u>Proposal Guaranty</u> | | <u>Amount of Bid</u> | <u>Proposal Guaranty</u> | | |
|-------------|----------------------|--------------------------|-------------|----------------------|--------------------------|--------------|-----------|
| Up to | \$5,000 | \$150 | \$2,000,000 | to | \$3,000,000 | \$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.

RETURN WITH BID

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

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

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

Schedule of Combination Bids

| Combination No. | Sections Included in Combination | Combination Bid | |
|-----------------|----------------------------------|-----------------|-------|
| | | Dollars | Cents |
| | | | |
| | | | |
| | | | |
| | | | |

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF PRICES
 CONTRACT
 NUMBER - 64647

State Job # - C-92-041-05
 PPS NBR - 2-95140-0200
 County Name - ROCK ISLAND- -
 Code - 161 - -
 District - 2 - -
 Section Number - 1-3-K

Project Number

Route
 FAP 595

| Item Number | Pay Item Description | Unit of Measure | Quantity | x | Unit Price | = | Total Price |
|-------------|-----------------------|-----------------|-----------|---|------------|---|-------------|
| K1004469 | PERENNIAL PLANTS P-TY | UNIT | 571.000 | | | | |
| XX000739 | CURB STOP & BOX 1 | EACH | 1.000 | | | | |
| XX002909 | CLASS SI CONC | CU YD | 9.100 | | | | |
| XX003216 | UD 3#6 #6G XLPUSE1.25 | FOOT | 972.000 | | | | |
| XX003711 | BUS SHELTER REMOVAL | EACH | 1.000 | | | | |
| XX003786 | PLUG MJ 8 | EACH | 2.000 | | | | |
| XX003788 | BEND DIMJ 90 DEG 8 | EACH | 2.000 | | | | |
| XX003789 | BEND DIMJ 11-1/4 8 | EACH | 2.000 | | | | |
| XX003790 | TEE DIMJ, 8X2 | EACH | 1.000 | | | | |
| XX003792 | TEE DIMJ, 8X6 | EACH | 3.000 | | | | |
| XX003795 | V GATE, 8 MJRW & BOX | EACH | 2.000 | | | | |
| XX003796 | TAP & CORP. 1" | EACH | 3.000 | | | | |
| XX003799 | COPPER SERVICE TK 1 | FOOT | 103.000 | | | | |
| XX003800 | SAN S DIP PCL 350 12 | FOOT | 716.000 | | | | |
| XX003802 | SAN S DIP PCL 350 8 | FOOT | 1,055.000 | | | | |

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|-------------|-----------------------|-----------------|------------|---|------------|---|-------------|
| XX003811 | REM/REL LP, MAST ARM | EACH | 9.000 | | | | |
| XX004900 | TURF REINF MAT | SQ YD | 19,134.000 | | | | |
| XX004949 | INCID BIT SUR SUPER | TON | 59.000 | | | | |
| X0320872 | VIDEO VEH DET SYS | EACH | 3.000 | | | | |
| X0322033 | STORM SEW WM REQ 12 | FOOT | 278.000 | | | | |
| X0322089 | STORM SEW WM REQ 36 | FOOT | 144.000 | | | | |
| X0322125 | STORM SEW WM REQ 24 | FOOT | 84.000 | | | | |
| X0322352 | SEEDING MOBILIZATION | EACH | 10.000 | | | | |
| X0323437 | CON FLX MET WP 2 | EACH | 2.000 | | | | |
| X0323641 | CASING PIPE T 16 | FOOT | 75.000 | | | | |
| X0323830 | DRAINAGE SCUPPR DS-11 | EACH | 6.000 | | | | |
| X0324919 | PLUG MECH JOINT 12" | EACH | 2.000 | | | | |
| X0324920 | BEND DIMJ 22.5 DEG 8 | EACH | 3.000 | | | | |
| X0324921 | BEND DIMJ 45 DEG 8 | EACH | 5.000 | | | | |
| X0324922 | BEND DIMJ 22.5 DEG 12 | EACH | 2.000 | | | | |

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|-------------|-----------------------|-----------------|------------|---|------------|---|-------------|
| X0324923 | BEND DIMJ 45 DEG 12 | EACH | 2.000 | | | | |
| X0324924 | REDUCER DIMJ 12X8 | EACH | 1.000 | | | | |
| X0324925 | TEE DIMJ 12X4 | EACH | 1.000 | | | | |
| X0324926 | TEE DIMJ 12X6 | EACH | 3.000 | | | | |
| X0324927 | TEE DIMJ 12X12 | EACH | 1.000 | | | | |
| X0324928 | V GATE, 6 MJRW & BOX | EACH | 6.000 | | | | |
| X0324929 | WATER MN COUPLING 12 | EACH | 1.000 | | | | |
| X0324930 | DUCT IRON SLEEVE, 12" | EACH | 1.000 | | | | |
| X0324931 | DUCT IRON SLEEVE, 8" | EACH | 3.000 | | | | |
| X0324932 | DI WM 8 STEEL CASING | FOOT | 75.000 | | | | |
| X4066424 | BC SC SUPER "D" N50 | TON | 462.000 | | | | |
| X4200350 | PCC PVT 7 3/4 JT W IC | SQ YD | 13,478.000 | | | | |
| X6370930 | CONC BAR 2F 32HT | FOOT | 4,192.000 | | | | |
| X7012620 | TR CONT & PROT 701501 | EACH | 1.000 | | | | |
| X7012625 | TR CONT & PROT 701606 | EACH | 5.000 | | | | |

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|-------------|-----------------------|-----------------|-----------|---|------------|---|-------------|
| X7013015 | TRAF CONT RD CLOSURE | L SUM | 1.000 | | | | |
| X7800510 | POLYUREA PM SPL LN 4 | FOOT | 878.000 | | | | |
| X7800540 | POLYUREA PM SPL LN 8 | FOOT | 1,381.000 | | | | |
| X7800550 | POLYUREA PM SPL LN 12 | FOOT | 1,813.000 | | | | |
| X7800580 | POLYUREA PM SPL LN 24 | FOOT | 540.000 | | | | |
| X8300170 | LT P A 35MH 12DA-TW | EACH | 17.000 | | | | |
| X8730027 | ELCBL C GROUND 6 1C | FOOT | 2,986.000 | | | | |
| X8801300 | SH P LED 1F 3S BM | EACH | 6.000 | | | | |
| X8801310 | SH P LED 1F 3S MAM | EACH | 30.000 | | | | |
| X8801395 | SH P LED 1F 5S BM | EACH | 2.000 | | | | |
| X8801400 | SH P LED 1F 5S MAM | EACH | 1.000 | | | | |
| X8801447 | SH P LED 2F 5S BM | EACH | 1.000 | | | | |
| X8808010 | OPSH P 1F 3S BM | EACH | 2.000 | | | | |
| Z0002600 | BAR SPLICERS | EACH | 140.000 | | | | |
| Z0003900 | BICYCLE RAILING | FOOT | 60.000 | | | | |

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|-------------|-----------------------|-----------------|----------|---|------------|---|-------------|
| Z0007601 | BLDG REMOV NO 1 | L SUM | 1.000 | | | | |
| Z0007602 | BLDG REMOV NO 2 | L SUM | 1.000 | | | | |
| Z0007603 | BLDG REMOV NO 3 | L SUM | 1.000 | | | | |
| Z0007604 | BLDG REMOV NO 4 | L SUM | 1.000 | | | | |
| Z0013798 | CONSTRUCTION LAYOUT | L SUM | 1.000 | | | | |
| Z0014700 | CULVERT TO BE CLEANED | EACH | 1.000 | | | | |
| Z0017202 | DOWEL BARS 1 1/2 | EACH | 223.000 | | | | |
| Z0030030 | IMP ATTEN FRD NAR TL3 | EACH | 1.000 | | | | |
| Z0036600 | PARAPET RAILING | FOOT | 60.000 | | | | |
| Z0050000 | REM REIN IMPACT ATTEN | EACH | 1.000 | | | | |
| Z0074100 | TERMINATE DEAD END RD | EACH | 1.000 | | | | |
| Z0075330 | TIE BARS 1 1/4 | EACH | 305.000 | | | | |
| 20100110 | TREE REMOV 6-15 | UNIT | 318.000 | | | | |
| 20100210 | TREE REMOV OVER 15 | UNIT | 216.000 | | | | |
| 20100500 | TREE REMOV ACRES | ACRE | 4.980 | | | | |

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|-------------|-----------------------|-----------------|-------------|---|------------|---|-------------|
| 20200100 | EARTH EXCAVATION | CU YD | 82,287.000 | | | | |
| 20400800 | FURNISHED EXCAV | CU YD | 253,490.000 | | | | |
| 20700220 | POROUS GRAN EMBANK | CU YD | 320.000 | | | | |
| 20800150 | TRENCH BACKFILL | CU YD | 2,589.000 | | | | |
| 21001000 | GEOTECH FAB F/GR STAB | SQ YD | 70,863.000 | | | | |
| 21101625 | TOPSOIL F & P 6 | SQ YD | 151,106.000 | | | | |
| 25000310 | SEEDING CL 4 | ACRE | 3.000 | | | | |
| 25000314 | SEEDING CL 4B | ACRE | 1.310 | | | | |
| 25000350 | SEEDING CL 7 | ACRE | 57.000 | | | | |
| 25000400 | NITROGEN FERT NUTR | POUND | 5,315.000 | | | | |
| 25000500 | PHOSPHORUS FERT NUTR | POUND | 5,315.000 | | | | |
| 25000600 | POTASSIUM FERT NUTR | POUND | 5,315.000 | | | | |
| 25000750 | MOWING | ACRE | 25.000 | | | | |
| 25000775 | SELECT MOWING STAKES | EACH | 12.000 | | | | |
| 25000910 | SEEDING CL 1 MOD | ACRE | 40.000 | | | | |

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|-------------|-----------------------|-----------------|------------|---|------------|---|-------------|
| 25001845 | SEEDING CL 7 SPL | ACRE | 10.220 | | | | |
| 25100115 | MULCH METHOD 2 | ACRE | 114.000 | | | | |
| 25100630 | EROSION CONTR BLANKET | SQ YD | 3,094.000 | | | | |
| 28000200 | EARTH EXC - EROS CONT | CU YD | 48.000 | | | | |
| 28000250 | TEMP EROS CONTR SEED | POUND | 18,000.000 | | | | |
| 28000300 | TEMP DITCH CHECKS | EACH | 60.000 | | | | |
| 28000400 | PERIMETER EROS BAR | FOOT | 9,522.000 | | | | |
| 28000500 | INLET & PIPE PROTECT | EACH | 17.000 | | | | |
| 28100107 | STONE RIPRAP CL A4 | SQ YD | 147.000 | | | | |
| 28400100 | GABIONS | CU YD | 13.000 | | | | |
| 30103000 | SHAPING & GRAD RDWAY | UNIT | 6.000 | | | | |
| 31100100 | SUB GRAN MAT A | TON | 76,284.000 | | | | |
| 31200100 | STAB SUB-BASE 4 | SQ YD | 54,967.000 | | | | |
| 35100100 | AGG BASE CSE A | TON | 1,914.000 | | | | |
| 40200800 | AGG SURF CSE B | TON | 201.000 | | | | |

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|-------------|-----------------------|-----------------|-------------|---|------------|---|-------------|
| 40600200 | BIT MATLS PR CT | TON | 8.000 | | | | |
| 42000216 | PCC PVT 7 3/4 JOINTD | SQ YD | 3,213.000 | | | | |
| 42000411 | PCC PVT 9 1/2 JOINTD | SQ YD | 62,250.000 | | | | |
| 42001165 | BR APPR PAVT | SQ YD | 339.000 | | | | |
| 42001300 | PROTECTIVE COAT | SQ YD | 112,764.000 | | | | |
| 42001400 | BR APPROACH PAVT SPL | SQ YD | 1,223.000 | | | | |
| 42001420 | BR APPR PVT CON (PCC) | SQ YD | 4,616.000 | | | | |
| 42300300 | PCC DRIVEWAY PAVT 7 | SQ YD | 1,550.000 | | | | |
| 42400200 | PC CONC SIDEWALK 5 | SQ FT | 8,063.000 | | | | |
| 44000100 | PAVEMENT REM | SQ YD | 33,885.000 | | | | |
| 44000200 | DRIVE PAVEMENT REM | SQ YD | 1,465.000 | | | | |
| 44000500 | COMB CURB GUTTER REM | FOOT | 5,699.000 | | | | |
| 44000600 | SIDEWALK REM | SQ FT | 12,296.000 | | | | |
| 44213200 | SAW CUTS | FOOT | 498.000 | | | | |
| 48100100 | AGGREGATE SHLDS A | TON | 1,348.000 | | | | |

ILLINOIS DEPARTMENT OF TRANSPORTATION
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 CONTRACT
 NUMBER - 64647

State Job # - C-92-041-05
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 County Name - ROCK ISLAND- -
 Code - 161 - -
 District - 2 - -
 Section Number - 1-3-K

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Route
 FAP 595

| Item Number | Pay Item Description | Unit of Measure | Quantity | x | Unit Price | = | Total Price |
|-------------|-----------------------|-----------------|-------------|---|------------|---|-------------|
| 48300100 | PCC SHOULDERS 6 | SQ YD | 467.000 | | | | |
| 48300410 | PCC SHOULDERS 9 1/2 | SQ YD | 20,703.000 | | | | |
| 50104400 | CONC HDWL REM | EACH | 2.000 | | | | |
| 50105200 | REM EXIST CULVERTS | EACH | 3.000 | | | | |
| 50200100 | STRUCTURE EXCAVATION | CU YD | 448.000 | | | | |
| 50200400 | ROCK EXC STRUCT | CU YD | 5.000 | | | | |
| 50300225 | CONC STRUCT | CU YD | 228.600 | | | | |
| 50300255 | CONC SUP-STR | CU YD | 491.900 | | | | |
| 50300260 | BR DECK GROOVING | SQ YD | 1,523.000 | | | | |
| 50300300 | PROTECTIVE COAT | SQ YD | 1,739.000 | | | | |
| 50500105 | F & E STRUCT STEEL | L SUM | 1.000 | | | | |
| 50500505 | STUD SHEAR CONNECTORS | EACH | 4,563.000 | | | | |
| 50800105 | REINFORCEMENT BARS | POUND | 171,290.000 | | | | |
| 50800205 | REINF BARS, EPOXY CTD | POUND | 161,270.000 | | | | |
| 51100100 | SLOPE WALL 4 | SQ YD | 852.000 | | | | |

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|-------------|----------------------|-----------------|-----------|---|------------|---|-------------|
| 51201500 | FUR STL PILE HP10X57 | FOOT | 1,851.000 | | | | |
| 51202700 | DRIVE STL PILE | FOOT | 1,851.000 | | | | |
| 51203500 | TEST PILE ST HP10X57 | EACH | 3.000 | | | | |
| 51204600 | METAL SHOES | EACH | 48.000 | | | | |
| 51500100 | NAME PLATES | EACH | 2.000 | | | | |
| 54001001 | BOX CUL END SEC C1 | EACH | 2.000 | | | | |
| 54001002 | BOX CUL END SEC C2 | EACH | 2.000 | | | | |
| 54002020 | EXPAN BOLTS 3/4 | EACH | 32.000 | | | | |
| 54003000 | CONC BOX CUL | CU YD | 997.600 | | | | |
| 54020303 | PCBC 3X3 (M273) | FOOT | 50.000 | | | | |
| 54020502 | PCBC 5X2 (M273) | FOOT | 146.000 | | | | |
| 542A0223 | P CUL CL A 1 18 | FOOT | 44.000 | | | | |
| 542A1060 | P CUL CL A 2 15 | FOOT | 50.000 | | | | |
| 542A3391 | P CUL CL A 5 36 | FOOT | 206.000 | | | | |
| 54213657 | PRC FLAR END SEC 12 | EACH | 12.000 | | | | |

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|-------------|----------------------|-----------------|-----------|---|------------|---|-------------|
| 54213660 | PRC FLAR END SEC 15 | EACH | 3.000 | | | | |
| 54213663 | PRC FLAR END SEC 18 | EACH | 3.000 | | | | |
| 54213669 | PRC FLAR END SEC 24 | EACH | 2.000 | | | | |
| 54213681 | PRC FLAR END SEC 36 | EACH | 4.000 | | | | |
| 54215547 | MET END SEC 12 | EACH | 22.000 | | | | |
| 54215550 | MET END SEC 15 | EACH | 2.000 | | | | |
| 54248510 | CONCRETE COLLAR | CU YD | 0.220 | | | | |
| 550A0050 | STORM SEW CL A 1 12 | FOOT | 531.000 | | | | |
| 550A0070 | STORM SEW CL A 1 15 | FOOT | 68.000 | | | | |
| 550A0340 | STORM SEW CL A 2 12 | FOOT | 3,992.000 | | | | |
| 550A0360 | STORM SEW CL A 2 15 | FOOT | 1,070.000 | | | | |
| 550A0380 | STORM SEW CL A 2 18 | FOOT | 706.000 | | | | |
| 550A0410 | STORM SEW CL A 2 24 | FOOT | 770.000 | | | | |
| 550A0450 | STORM SEW CL A 2 36 | FOOT | 180.000 | | | | |
| 55100500 | STORM SEWER REM 12 | FOOT | 1,681.000 | | | | |

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|-------------|------------------------|-----------------|----------|---|------------|---|-------------|
| 55100700 | STORM SEWER REM 15 | FOOT | 220.000 | | | | |
| 55100900 | STORM SEWER REM 18 | FOOT | 282.000 | | | | |
| 55101200 | STORM SEWER REM 24 | FOOT | 745.000 | | | | |
| 55101600 | STORM SEWER REM 36 | FOOT | 531.000 | | | | |
| 56103000 | D I WATER MAIN 6 | FOOT | 30.000 | | | | |
| 56103100 | D I WATER MAIN 8 | FOOT | 978.000 | | | | |
| 56103300 | D I WATER MAIN 12 | FOOT | 938.000 | | | | |
| 56105750 | BUTTERFLY VALVES 12 | EACH | 2.000 | | | | |
| 56201600 | CORP STOPS 1 1/2 | EACH | 1.000 | | | | |
| 56201800 | CORP STOPS 2 | EACH | 3.000 | | | | |
| 56400100 | FIRE HYDNPTS TO BE MVD | EACH | 1.000 | | | | |
| 56400300 | FIRE HYDNPTS TO BE ADJ | EACH | 3.000 | | | | |
| 56400500 | FIRE HYDNPTS TO BE REM | EACH | 6.000 | | | | |
| 56400600 | FIRE HYDRANTS | EACH | 6.000 | | | | |
| 56400800 | FIRE HYDNT & VAL MVD | EACH | 1.000 | | | | |

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|-------------|-----------------------|-----------------|------------|---|------------|---|-------------|
| 60100060 | CONC HDWL FOR P DRAIN | EACH | 26.000 | | | | |
| 60100945 | PIPE DRAINS 12 | FOOT | 1,241.000 | | | | |
| 60100955 | PIPE DRAINS 15 | FOOT | 124.000 | | | | |
| 60107600 | PIPE UNDERDRAINS 4 | FOOT | 12,045.000 | | | | |
| 60108100 | PIPE UNDERDRAIN 4 SP | FOOT | 605.000 | | | | |
| 60218400 | MAN TA 4 DIA T1F CL | EACH | 10.000 | | | | |
| 60221100 | MAN TA 5 DIA T1F CL | EACH | 3.000 | | | | |
| 60223800 | MAN TA 6 DIA T1F CL | EACH | 2.000 | | | | |
| 60240220 | INLETS TB T3F&G | EACH | 10.000 | | | | |
| 60240310 | INLETS TB T11F&G | EACH | 2.000 | | | | |
| 60242700 | INLETS SPL N3 | EACH | 5.000 | | | | |
| 60242801 | INLETS SPL N5 | EACH | 72.000 | | | | |
| 60246805 | MED INLET (604106) | EACH | 1.000 | | | | |
| 60255500 | MAN ADJUST | EACH | 12.000 | | | | |
| 60257900 | MAN RECONST | EACH | 1.000 | | | | |

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|-------------|----------------------|-----------------|-----------|---|------------|---|-------------|
| 60262700 | INLETS RECONST | EACH | 3.000 | | | | |
| 60262800 | INLETS RECONST SPL | EACH | 1.000 | | | | |
| 60266600 | VALVE BOX ADJ | EACH | 26.000 | | | | |
| 60270050 | DR STR T4 W/2 T20F&G | EACH | 19.000 | | | | |
| 60270055 | DR STR T5 W/2 T22F&G | EACH | 1.000 | | | | |
| 60500040 | REMOV MANHOLES | EACH | 4.000 | | | | |
| 60500060 | REMOV INLETS | EACH | 34.000 | | | | |
| 60500080 | REMOV CB - MAIN FLOW | EACH | 2.000 | | | | |
| 60500105 | FILL MANHOLES | EACH | 6.000 | | | | |
| 60600095 | CLASS SI CONC OUTLET | CU YD | 7.800 | | | | |
| 60600605 | CONC CURB TB | FOOT | 227.000 | | | | |
| 60605000 | COMB CC&G TB6.24 | FOOT | 9,997.000 | | | | |
| 60605400 | COMB CC&G TB6.24 SPL | FOOT | 609.000 | | | | |
| 60608521 | COMB CC&G TM2.24 | FOOT | 50.000 | | | | |
| 60608600 | COMB CC&G TM6.06 | FOOT | 127.000 | | | | |

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|-------------|-----------------------|-----------------|------------|---|------------|---|-------------|
| 60610400 | COMB CC&G TM6.24 | FOOT | 1,193.000 | | | | |
| 60618300 | CONC MEDIAN SURF 4 | SQ FT | 16,096.000 | | | | |
| 60619100 | CONC MED TSB SPL | SQ FT | 6,109.000 | | | | |
| 60624600 | CORRUGATED MED | SQ FT | 873.000 | | | | |
| 60900140 | TY B INLET BOX 609006 | EACH | 1.000 | | | | |
| 60900315 | TY D INLET BOX 609006 | EACH | 2.000 | | | | |
| 60900515 | CONC THRUST BLOCKS | EACH | 24.000 | | | | |
| 63000000 | SPBGR TY A | FOOT | 2,116.000 | | | | |
| 63100045 | TRAF BAR TERM T2 | EACH | 3.000 | | | | |
| 63100070 | TRAF BAR TERM T5 | EACH | 5.000 | | | | |
| 63100085 | TRAF BAR TERM T6 | EACH | 5.000 | | | | |
| 63100167 | TR BAR TRM T1 SPL TAN | EACH | 3.000 | | | | |
| 63300705 | RUB RAIL | FOOT | 100.000 | | | | |
| 63500105 | DELINEATORS | EACH | 172.000 | | | | |
| 66400105 | CH LK FENCE 4 | FOOT | 8,671.000 | | | | |

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|-------------|-----------------------|-----------------|------------|---|------------|---|-------------|
| 66400705 | CH LK GATE 4X4 SINGL | EACH | 1.000 | | | | |
| 66600105 | FUR ERECT ROW MARKERS | EACH | 23.000 | | | | |
| 66700305 | PERM SURV MKRS T2 | EACH | 6.000 | | | | |
| 67000400 | ENGR FIELD OFFICE A | CAL MO | 18.000 | | | | |
| 67000600 | ENGR FIELD LAB | CAL MO | 18.000 | | | | |
| 67100100 | MOBILIZATION | L SUM | 1.000 | | | | |
| 70100200 | TRAF CONT-PROT 701331 | EACH | 1.000 | | | | |
| 70100420 | TRAF CONT-PROT 701411 | EACH | 1.000 | | | | |
| 70103815 | TR CONT SURVEILLANCE | CAL DA | 100.000 | | | | |
| 70300210 | TEMP PVT MK LTR & SYM | SQ FT | 68.000 | | | | |
| 70300220 | TEMP PVT MK LINE 4 | FOOT | 41,764.000 | | | | |
| 70300250 | TEMP PVT MK LINE 8 | FOOT | 247.000 | | | | |
| 70300280 | TEMP PVT MK LINE 24 | FOOT | 77.000 | | | | |
| 70301000 | WORK ZONE PAVT MK REM | SQ FT | 9,973.000 | | | | |
| 72000100 | SIGN PANEL T1 | SQ FT | 172.000 | | | | |

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|-------------|-----------------------|-----------------|------------|---|------------|---|-------------|
| 72000200 | SIGN PANEL T2 | SQ FT | 284.500 | | | | |
| 72000300 | SIGN PANEL T3 | SQ FT | 1,492.000 | | | | |
| 72700100 | STR STL SIN SUP BA | POUND | 6,066.000 | | | | |
| 73000100 | WOOD SIN SUPPORT | FOOT | 480.000 | | | | |
| 73300200 | OVHD SIN STR-SPAN T2A | FOOT | 2.000 | | | | |
| 73303000 | OH SN STR-SPAN MOTUBE | FOOT | 4.000 | | | | |
| 73305000 | OVHD SIN STR WALKWAY | FOOT | 166.000 | | | | |
| 73400100 | CONC FOUNDATION | CU YD | 13.000 | | | | |
| 73400200 | DRILL SHAFT CONC FDN | CU YD | 63.000 | | | | |
| 78008200 | POLYUREA PM T1 LTR-SY | SQ FT | 952.000 | | | | |
| 78008210 | POLYUREA PM T1 LN 4 | FOOT | 44,397.000 | | | | |
| 78008230 | POLYUREA PM T1 LN 6 | FOOT | 6,219.000 | | | | |
| 78008240 | POLYUREA PM T1 LN 8 | FOOT | 6,254.000 | | | | |
| 78100100 | RAISED REFL PAVT MKR | EACH | 482.000 | | | | |
| 78200410 | GUARDRAIL MKR TYPE A | EACH | 32.000 | | | | |

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|-------------|-----------------------|-----------------|-----------|---|------------|---|-------------|
| 78200500 | BARRIER WALL MARKERS | EACH | 62.000 | | | | |
| 78201000 | TERMINAL MARKER - DA | EACH | 4.000 | | | | |
| 78300100 | PAVT MARKING REMOVAL | SQ FT | 4,078.000 | | | | |
| 78300200 | RAISED REF PVT MK REM | EACH | 6.000 | | | | |
| 80400100 | ELECT SERV INSTALL | EACH | 1.000 | | | | |
| 80500105 | SERV INSTALL TY A MOD | EACH | 3.000 | | | | |
| 80801500 | W POLE 25 CL 5 | EACH | 1.000 | | | | |
| 81012500 | CON T 1 1/2 PVC | FOOT | 3,932.000 | | | | |
| 81012600 | CON T 2 PVC | FOOT | 418.000 | | | | |
| 81012700 | CON T 2 1/2 PVC | FOOT | 319.000 | | | | |
| 81012800 | CON T 3 PVC | FOOT | 336.000 | | | | |
| 81013000 | CON T 4 PVC | FOOT | 216.000 | | | | |
| 81013100 | CON T 5 PVC | FOOT | 15.000 | | | | |
| 81014600 | CON T 2 IM | FOOT | 3,280.000 | | | | |
| 81016300 | CON T 1 HDP COIL | FOOT | 20.000 | | | | |

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|-------------|-----------------------|-----------------|------------|---|------------|---|-------------|
| 81020500 | CON P 2 IM | FOOT | 580.000 | | | | |
| 81020700 | CON P 3 IM | FOOT | 75.000 | | | | |
| 81021350 | CON P 3 PVC | FOOT | 82.000 | | | | |
| 81102600 | CON AT ST 2 PVC | FOOT | 195.000 | | | | |
| 81200230 | CON EMB STR 2 PVC | FOOT | 100.000 | | | | |
| 81301340 | JUN BX SS ES 18X4X10 | EACH | 4.000 | | | | |
| 81400100 | HANDHOLE | EACH | 21.000 | | | | |
| 81400300 | DBL HANDHOLE | EACH | 3.000 | | | | |
| 81500200 | TR & BKFIL F ELECT WK | FOOT | 15,568.000 | | | | |
| 81600215 | UD 2#8XLP1#8XLPG 3/4P | FOOT | 11,957.000 | | | | |
| 81600415 | UD 2#4XLP 1#4XLPG 1P | FOOT | 860.000 | | | | |
| 81702110 | EC C XLP USE 1C 10 | FOOT | 4,382.000 | | | | |
| 81702410 | EC C XLP USE 3-1C 4 | FOOT | 3,472.000 | | | | |
| 82102250 | LUM SV HOR MT 250W | EACH | 83.000 | | | | |
| 82103250 | LUM SV HOR MT PC 250W | EACH | 1.000 | | | | |

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|-------------|-----------------------|-----------------|-----------|---|------------|---|-------------|
| 82103400 | LUM SV HOR MT PC 400W | EACH | 9.000 | | | | |
| 82500540 | LT CONT CBRCS 100-480 | EACH | 1.000 | | | | |
| 83002600 | LT P A 40MH 15DA | EACH | 49.000 | | | | |
| 83600300 | LIGHT POLE FDN 30D | FOOT | 136.000 | | | | |
| 83600355 | LP F M 15BC 8" X 6' | EACH | 49.000 | | | | |
| 83800650 | BKWY DEV COU SS SCRN | EACH | 196.000 | | | | |
| 85700205 | FAC T4 CAB SPL | EACH | 3.000 | | | | |
| 86000100 | MASTER CONTROLLER | EACH | 1.000 | | | | |
| 86400100 | TRANSCEIVER - FIB OPT | EACH | 3.000 | | | | |
| 87100160 | FO CAB C 62.5/125 24F | FOOT | 1,968.000 | | | | |
| 87301245 | ELCBL C SIGNAL 14 5C | FOOT | 7,901.000 | | | | |
| 87301255 | ELCBL C SIGNAL 14 7C | FOOT | 762.000 | | | | |
| 87301515 | ELCBL C LEAD 18 3PR | FOOT | 229.000 | | | | |
| 87301815 | ELCBL C SERV 6 3C | FOOT | 484.000 | | | | |
| 87502500 | TS POST GALVS 16 | EACH | 6.000 | | | | |

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|-------------|-----------------------|-----------------|----------|---|------------|---|-------------|
| 87700160 | S MAA & P 24 | EACH | 2.000 | | | | |
| 87702880 | STL COMB MAA&P 30 | EACH | 2.000 | | | | |
| 87702920 | STL COMB MAA&P 38 | EACH | 2.000 | | | | |
| 87702940 | STL COMB MAA&P 42 | EACH | 1.000 | | | | |
| 87702970 | STL COMB MAA&P 48 | EACH | 3.000 | | | | |
| 87702980 | STL COMB MAA&P 50 | EACH | 1.000 | | | | |
| 87703000 | STL COMB MAA&P 55 | EACH | 1.000 | | | | |
| 87800100 | CONC FDN TY A | FOOT | 18.000 | | | | |
| 87800200 | CONC FDN TY D | FOOT | 10.500 | | | | |
| 87800400 | CONC FDN TY E 30D | FOOT | 20.000 | | | | |
| 87800415 | CONC FDN TY E 36D | FOOT | 124.000 | | | | |
| 87900200 | DRILL EX HANDHOLE | EACH | 1.000 | | | | |
| 88200310 | TS BACKPLATE LOU PLAS | EACH | 43.000 | | | | |
| 88600100 | DET LOOP T1 | FOOT | 376.000 | | | | |
| 89502375 | REMOV EX TS EQUIP | EACH | 1.000 | | | | |

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|----------------|----------------------|--------------------|----------|---|------------|---|-------------|
| 89502380 | REMOV EX HANDHOLE | EACH | 1.000 | | | | |
| 89502385 | REMOV EX CONC FDN | EACH | 1.000 | | | | |

CONTRACT NUMBER

64647

THIS IS THE TOTAL BID

\$ _____

NOTES:

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 \$150,700.00. Sixty percent of the salary is \$90,420.00.

RETURN WITH BID

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

D. Negotiations

1. The Illinois Procurement Code provides in pertinent part:

Section 50-15. Negotiations.

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

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

E. Inducements

1. The Illinois Procurement Code provides:

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

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

F. Revolving Door Prohibition

1. The Illinois Procurement Code provides:

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

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

G. Reporting Anticompetitive Practices

1. The Illinois Procurement Code provides:

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

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

H. Confidentiality

1. The Illinois Procurement Code provides:

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

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

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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.

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(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 provides:

Section 50-60(c).

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 each of its subcontractors. Unless otherwise directed in writing by the Department, 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 may be indicated as to be subcontracted.

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.

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 sign the following certification statement indicating that the information previously submitted by the bidder is, as of the date of signature, current and accurate. The Certification must be signed and dated by a person who is authorized to execute contracts for the bidding company. Before signing this certification, the bidder should carefully review its prior submissions to ensure the Certification is correct. If the Bidder signs 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)

Name of Authorized Representative (type or print)

Title of Authorized Representative (type or print)

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 \$90,420.00? YES ___ NO ___
3. Does anyone in your organization receive more than \$90,420.00 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 \$90,420.00? 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. It must be signed by an individual who is authorized to execute contracts for the bidding entity. *Note: Signing the NOT APPLICABLE STATEMENT on Form A does not allow the bidder to ignore Form B. Form B must be completed, signed 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 signature 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:

**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 \$90,420.00 (60% of the Governor's salary as of 7/1/01). **(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 \$90,420.00, (60% of the Governor's salary as of 7/1/01) provide the name the State agency for which you are employed and your annual salary. _____

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3. If you are currently appointed to or employed by any agency of the State of Illinois, and your annual salary exceeds \$90,420.00, (60% of the Governor's salary as of 7/1/01) 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 \$90,420.00, (60% of the Governor's salary as of 7/1/01) are you and your spouse or minor children entitled to receive (i) more than 15 % in the 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 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 \$90,420.00, (60 % of the Governor's salary as of 7/1/01) provide the name of your 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 \$90,420.00, (60% of the salary of the Governor as of 7/1/01) are you entitled to receive (i) more than 7 1/2% of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of the salary of the Governor? Yes ___ No ___
4. If your spouse or any minor children are currently appointed to or employed by any agency of the State of Illinois, and his/her annual salary exceeds \$90,420.00, (60% of the Governor's salary as of 7/1/01) are you and your spouse or minor children entitled to receive (i) more than 15 % in the 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 ___

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

Yes ___ No ___

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

Yes ___ No ___

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

Yes ___ No ___

RETURN WITH BID/OFFER

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

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

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

APPLICABLE STATEMENT

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

Completed by: _____
Name of Authorized Representative (type or print)

Completed by: _____
Title of Authorized Representative (type or print)

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

NOT APPLICABLE STATEMENT

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

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

Name of Authorized Representative (type or print)

Title of Authorized Representative (type or print)

Signature of Authorized Representative Date _____

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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 SIGNED

| | |
|----------------------------------------------------|-------|
| _____ | |
| Name of Authorized Representative (type or print) | |
| _____ | |
| Title of Authorized Representative (type or print) | |
| _____ | _____ |
| Signature of Authorized Representative | Date |

RETURN WITH BID

SPECIAL NOTICE TO CONTRACTORS

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

CONSTRUCTION EMPLOYEE UTILIZATION PROJECTION

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

RETURN WITH BID



**Contract No. 64647
ROCK ISLAND County
Section 1-3-K
Route FAP 595
District 2 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 | | | | | |
|----------------------------------------------------|-----------------|---|--------------------|---|----------|---|---------------|---|-------------|---|---------------------|---------------------------------------------------------------|-----------------|---|--------------------|---|--|
| JOB CATEGORIES | TOTAL EMPLOYEES | | MINORITY EMPLOYEES | | | | | | TRAINEES | | | | TOTAL EMPLOYEES | | MINORITY EMPLOYEES | | |
| | | | BLACK | | HISPANIC | | *OTHER MINOR. | | APPRENTICES | | ON THE JOB TRAINEES | | | | | | |
| | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F | |
| OFFICIALS (MANAGERS) | | | | | | | | | | | | | | | | | |
| SUPERVISORS | | | | | | | | | | | | | | | | | |
| FOREMEN | | | | | | | | | | | | | | | | | |
| CLERICAL EQUIPMENT OPERATORS | | | | | | | | | | | | | | | | | |
| MECHANICS | | | | | | | | | | | | | | | | | |
| TRUCK DRIVERS | | | | | | | | | | | | | | | | | |
| IRONWORKERS | | | | | | | | | | | | | | | | | |
| CARPENTERS | | | | | | | | | | | | | | | | | |
| CEMENT MASONS | | | | | | | | | | | | | | | | | |
| ELECTRICIANS | | | | | | | | | | | | | | | | | |
| PIPEFITTERS, PLUMBERS | | | | | | | | | | | | | | | | | |
| PAINTERS | | | | | | | | | | | | | | | | | |
| LABORERS, SEMI-SKILLED | | | | | | | | | | | | | | | | | |
| LABORERS, UNSKILLED | | | | | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | | | | | |

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

| |
|-------------------------|
| FOR DEPARTMENT USE ONLY |
|-------------------------|

*Other minorities are defined as Asians (A) or Native Americans (N).

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

Note: See instructions on the next page

RETURN WITH BID

**Contract No. 64647
ROCK ISLAND County
Section 1-3-K
Route FAP 595
District 2 Construction Funds**

PART II. WORKFORCE PROJECTION - continued

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

The undersigned bidder projects that: (number) _____ new hires would be recruited from the area in which the contract project is 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

**Contract No. 64647
ROCK ISLAND County
Section 1-3-K
Route FAP 595
District 2 Construction Funds**

PROPOSAL SIGNATURE SHEET

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

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

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

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

Corporate Name _____
By _____
Signature of Authorized Representative _____
Typed or printed name and title of Authorized Representative _____
Attest _____
Signature _____
Business Address _____

(IF A JOINT VENTURE)

Corporate Name _____
By _____
Signature of Authorized Representative _____
Typed or printed name and title of Authorized Representative _____
Attest _____
Signature _____
Business Address _____

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

RETURN WITH BID



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

Item No.
Letting Date

KNOW ALL MEN BY THESE PRESENTS, That We
as PRINCIPAL, and

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

Notary Certification for Principal and Surety

STATE OF ILLINOIS,
COUNTY OF

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

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

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

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

My commission expires
Notary Public

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

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

PROPOSAL ENVELOPE



PROPOSALS

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

| Item No. | Item No. | Item No. |
|----------|----------|----------|
| | | |
| | | |
| | | |
| | | |

Submitted By:

| |
|-----------|
| Name: |
| Address: |
| |
| |
| Phone No. |

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

Engineer of Design and Environment - Room 323
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. 64647
ROCK ISLAND County
Section 1-3-K
Route FAP 595
District 2 Construction Funds**



Illinois Department of Transportation



NOTICE TO BIDDERS

- 1. TIME AND PLACE OF OPENING BIDS.** Sealed proposals for the improvement described herein will be received by the Department of Transportation at the Harry R. Hanley Building, 2300 South Dirksen Parkway, in Springfield, Illinois until 10:00 o'clock a.m., March 11, 2005. 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. 64647
ROCK ISLAND County
Section 1-3-K
Route FAP 595
District 2 Construction Funds**

Construction of 1.47 miles of four lanes of 2 @ 24 feet and variable width concrete pavement (jointed) along IL Route 5 (Milan Beltway) and construction of a 2 span (1 @ 90'-9" and 1 @ 108'-3") bridge carrying 52nd Avenue over Milan Beltway in Moline.

- 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

Timothy W. Martin, Secretary

BD 351 (Rev. 01/2003)

INDEX
FOR
SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS

Adopted March 1, 2005

This index contains a listing of SUPPLEMENTAL SPECIFICATIONS and frequently used RECURRING SPECIAL PROVISIONS.
ERRATA Standard Specifications for Road and Bridge Construction (Adopted 1-1-02) (Revised 3-1-05)

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STATE OF ILLINOIS

SPECIAL PROVISIONS

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction," adopted January 1, 2002, the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways," and the "Manual of Test Procedures for Materials" in effect on the date of invitation for bids, and the Supplemental Specifications and Recurring Special Provisions indicated on the Check Sheet included herein which apply to and govern the construction of FAP Route 595 (John Deere Road) & Blackhawk Road/52nd Avenue, Section 1-3-K, Rock Island County, Contract #64647, and in case of conflict with any part or parts of said Specifications, the said Special Provisions shall take precedence and shall govern. All water distribution items shall be in accordance with Sections 561, 562, 564 and 565 of the Standard Specifications, applicable sections of Division IV "WATER DISTRIBUTION" and Division V "STANDARD DRAWINGS" of the Specifications for Water and Sewer Construction in Illinois and City of Moline Standards in the plans.

LOCATION OF PROJECT

Milan Beltway from I-280 to the Rock River Bridge and John Deere Road from the Rock River Bridge to 7th Street, Moline, IL. Wetland mitigation site is located in Colona, IL north of I-74/I-280 next to the Green River.

DESCRIPTION OF PROJECT

Concrete pavement construction and reconstruction, bridge and culvert construction, interchange ramp construction, traffic signal installation, and lighting installation, to be completed under road closures and staging.

TRAFFIC CONTROL PLAN

Effective January 14, 1999

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

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

Standards:

701301 701311 701331 701411 701501 701606 702001

Details:

STAGING PLANS
TRAFFIC CONTROL TYPICAL WEAVE (DIST. STD. 39.1)
TRAFFIC CONTROL FOR ROAD CLOSURE (DIST. STD. 40.1)
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (DIST. STD. 94.2)

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

All temporary pavement markings that will be operational during the winter months (December through March) shall be paint.

A minimum of 3 drums spaced at 4 feet shall be placed at each return when sideroads are open.

Direction Indicator Barricades shall exclusively be used in lane closure tapers on divided highways. They shall be used only when traffic is being merged with an adjacent through lane or shifted onto a median crossover.

Vehicle Parking: Parking of construction equipment within the right of way will be permitted only at locations approved by the Engineer.

Work Zone Traffic Control Devices: Vertical barricades shall not be used in lane closure tapers, in weaves, or in the gore areas on Highway Standard 701411.

Uneven Pavement Signs: "UNEVEN LANES" W8-11(O)48 signs shall be installed as directed by the Engineer.

Any additional guide signs as noted on the staging details shall be installed as directed by the Engineer.

The cost of furnishing, erecting, maintaining, covering and removing the signs shall be included in the cost of TRAFFIC CONTROL AND PROTECTION 701606.

Traffic Control for Road Closure: This work shall be done according to the Road Closure Standard and Section 701 of the Standard Specifications.

"ROAD CLOSED AHEAD" (W20-3(O)-48) with "____ MILES" (W16-3A(O)-3612) plate mounted below the sign shall be required at the following locations with the distance noted. The contractor shall erect these signs at _____(____ MILES), _____ (____ MILES), _____ (____ MILES), and _____ (____ MILES).

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

_____, _____, _____ and _____ shall be considered Condition I Major sideroad closures for signing as shown on the District Standard Traffic Control for Road Closure Detail.

The Contractor shall notify the Traffic Operations Section of the Bureau of Operations by fax (815/284-5489) and the Bureau of Project Implementation (815/284-5348) in writing by means of fax (to the numbers provided) and also by letter to the District Office. **This request shall be submitted a minimum of three weeks (21 days) prior to the anticipated closure date to allow the State adequate time to set the detour route.**

Signing and devices required to close the road, according to the Traffic Control for Road Closure detail and contained herein, shall be the responsibility of the Contractor. Detour signing required to detour traffic to alternate routes shall be the responsibility of the Department. The

day the detour signing begins, the detour will be in effect at 1:00 p.m. No detour shall be erected on Monday or Friday.

This work shall be paid for at the contract unit price per Lump Sum for Traffic Control for Road Closure.

Maintenance of Traffic: Temporary pavement widening shall be constructed using Traffic Control and Protection Standard 701606 and or 701101 and as shown on the staging plans.

The Contractor shall submit a maintenance of local traffic plan to the Engineer at the preconstruction meeting telling how local access will be maintained at each closure location. This traffic plan will need to be approved by the Engineer before the roadway is closed to traffic.

The construction of the temporary widening on 44th Street shall be done using Traffic Control and Protection Standard 701501.

The construction of 44th Street shall be done using Traffic Control and Protection Standard 701331.

The closures of 3rd Street, 52nd Avenue, Valley View Drive, and Old Blackhawk Road shall be done using Traffic Control for Road Closure.

The construction of temporary widening and the new lanes on Blackhawk Road shall be done using Traffic Control and Protection Standard 701606.

Traffic Control and Protection Standard 701411 shall be used to keep Ramp 2 out when finishing the pavement in Stage 2.

TRAFFIC SIGNAL WORK

The traffic signal work at 44th St. and Blackhawk Rd. shall be completed in such a way that the eastbound mast arm signals shall remain in operation except for an allowable 8-hour switchover period. During the switchover period the intersection shall operate as an all-way "Stop". All signage necessary shall be included in the cost of Remove Existing Traffic Signal Equipment.

EQUIPMENT ILLUMINATION

The Contractor shall equip all machinery and vehicles with revolving amber lights, installed so the illumination is visible from all directions.

CRITICAL PATH SCHEDULE

Effective February 10, 1995

The construction of this project will be planned and recorded with a conventional Critical Path Method (CPM) as specified in Article 108.02 of the Standard Specifications and the following:

The Contractor is responsible for preparing the initial schedule in the form of an activity on arrow diagram which shall include activity description and duration, two copies shall be submitted to the Engineer at the preconstruction meeting. The construction time, as determined by the schedule shall not exceed the specified contract time. The schedule shall be updated the first of each month, when there is a delay in completion of any critical activity, or when the contract is modified causing additions, deletion or revision of activities required.

As determined by CPM analysis, only delays in activities which affect milestone dates or contract completion dates will be considered for a time extension.

If the Contractor does seek a time extension of any milestone or contract completion date, he/she shall furnish documentation as required by the Engineer to enable him to determine whether a time extension is appropriate under the terms of the contract.

PROJECT COMPLETION DATE

Effective February 2, 2001

The Contractor shall perform his work in such a manner that the project is completed, on or prior to October 31, 2006. The project shall have all pay items completed except for tree planting before it is considered complete. If the Contractor fails to complete the project by the above completion date, the Contractor shall be charged liquidated damages by the Department of ELEVEN THOUSAND DOLLARS (\$11,000) a day for each day the project is not completed beyond the opening date. If in the event additional traffic control and protection is required to open the road or after the road is open to traffic, it shall be at the Contractor's expense.

The Contractor will be allowed 15 working days, after the October 31, 2006 completion date to plant trees.

TERMINATION OF DEAD END ROADS

Effective July 1, 1994

This work shall consist of furnishing and installing signs (W14-1)(R11-2A)(WB-I6), and posts as specified in Section T200 of the Standard Specifications for Traffic Control Items and as detailed in the plans.

The delineators shown on District Standard 89.2 shall be set to a minimum depth of 1.1 m (3½ feet).

This work will be paid for at the contract unit price per each for TERMINATION OF DEAD END ROADS.

EARTH EXCAVATION

Effective January 10, 2004

This work shall be performed in accordance with applicable portions of Sections 202 of the Standard Specifications. All excavated material in the wetlands area that is not to be used for topsoil shall be placed as depicted on the plans for construction of a berm west of Ramp 1. It shall be the Contractor's responsibility to provide dewatering of the area requiring excavation.

This work will be included in the unit cost per cubic yard for EARTH EXCAVATION.

BROKEN PAVEMENT EMBANKMENT

Effective February 1, 1999

This work shall be done in accordance with Section 205 of the Standard Specifications and as follows. Broken Pavement, including median removal and shot rock, may be used to construct embankments and shall be placed in layers that extend full width to the foreslopes. Layering broken pavement and soil will be allowed; however, compaction of the broken pavement fill will be required. When a soil layer has been placed on top of broken pavement, the layer shall not exceed 8 inches and will conform to embankment placement where passing density and moisture content will be required prior to any further embankment lifts being placed. Mixing wet soil and broken pavement will not be allowed.

The cohesive soil, which is to be placed on the foreslope to support vegetation, should be a minimum of 2 feet, but not to exceed 3 feet in thickness. If the cohesive soil layer exceeds 3 feet in thickness, French Drains constructed and installed will be required at the location designed by the Engineer.

The maximum allowable top size for broken pavement will be 12 inches in any one direction.

This work will not be paid for separately, but shall be included in the contract unit price per cubic yard for FURNISHED EXCAVATION.

FURNISHED EXCAVATION

Effective February 9, 2004

This work shall include the construction of a layer of compacted granular embankment.

The layer is noted as 36" QUARRY RUN GRANULAR EMBANKMENT on the TYPICAL SECTION sheets. The limits are shown in the CROSS SECTION sheets.

Quarry Run Rock shall have a topline not more than 24 inches in any dimension. The rock shall be sufficiently uniformly graded from coarse to fine to produce a layer with minimum voids. The rock shall be secured from a quarry ledge capable of producing Class "D" quality aggregate and shall contain no more than 10% visible seams of soil or clay.

This work will be included in the unit cost per cubic yard for FURNISHED EXCAVATION.

MOWING

This work consists of mowing all Seeding Class 1 (Modified) at the completion of the project or before winter shut down. The vegetation must be at least 6" long before mowing. The vegetation shall be mowed to obtain a height of not more than 3 inches. All debris must be cleared from the right-of-way immediately after the mowing.

This work will be paid for at the contract unit price per acre for MOWING.

SEEDING, CLASS 1 (MODIFIED)

Effective January 5, 2000

This work shall be done according to Section 250 of the Standard Specifications and the following seeding mixture.

| TYPE | SEEDS | KG/Hectare (lbs./Acre) |
|-----------------------|---------------------|------------------------|
| Lawn Mixture Modified | Kentucky Bluegrass | 100 (90) |
| | Perennial Ryegrass | 55 (50) |
| | Creeping Red Fescue | 35 (30) |

This work will be paid for at the contract unit price per acre for SEEDING, CLASS 1 (MODIFIED).

SEEDING MOBILIZATION

Effective May 9, 2000

The Contractor shall coordinate his work so no more than 10 acres are disturbed at a time. All work in this area shall be completed and the area permanently seeded before additional areas are disturbed. Under no conditions shall the Contractor prolong final grading and shaping so the entire project can be permanently seeded at one time.

Wherever possible, permanent seeding and the permanent erosion control should be installed. The ditch bottoms and backslopes should not be disturbed again unless the seeding hasn't become established. If the foreslopes need to be regraded to the new shoulder, all work shall be confined to the foreslope and any damage to the ditch bottom, backslope, or permanent erosion control shall be repaired at the Contractor's expense.

Seeding Class 1 (Modified), Seeding Class 4, Mulch Method 2, and the required fertilizer nutrients shall be completed and paid for in accordance with Sections 250 and 251 of the Standard Specifications, except that SEEDING MOBILIZATION will be paid for at the contract unit price per each and shall include the cost of mobilizing all of the equipment needed to fertilize, permanently seed, and mulch to the jobsite. This will be paid each time the Engineer requires the Contractor to bring the equipment to the jobsite. If the equipment is already on the site, this will not be paid for again.

CONCRETE HEADWALL REMOVAL

Effective January 10, 2004

This work shall be done in accordance with Section 501 of the Standard Specifications. If materials resulting from the removal of the concrete headwalls are to be used in the embankment, they shall conform to, and be placed and compacted in accordance with Section 205 of the Standard Specifications.

This work will be paid for at the contract unit price per each for CONCRETE HEADWALL REMOVAL.

CONCRETE COLLAR

Effective January 10, 2004

This item shall be done according to the applicable portions of Section 503 of the Standard Specifications. A Class SI concrete collar, approximately twelve (12) inches wide and six (6) inches in thickness, shall be placed around the entire circumference of pipe drains to be connected to existing culverts.

This work will be paid for at the contract unit price per Cubic Yard for CONCRETE COLLAR for each location constructed.

STORM SEWER WATER MAIN REQUIREMENT

Effective June 12, 1997

Description: This work shall consist of furnishing and installing water main quality pipe at the locations shown on the plans.

Materials:

- a) Ductile iron water main Class 52
Joints for Ductile Iron pipe shall be:
 - 1. Mechanical Joints - AWWA C111 and C600
 - 2. Push-On-Joints - AWWA C111 and C600
- b) Polyvinyl Chloride (PVC) Class 12454B (PVC 1120) or Class 12454C (PVC 1220).

Schedule 40 is required for 8" diameter and schedule 80 for larger sizes.

CONSTRUCTION REQUIREMENTS

The storm sewer water main shall be installed according to the applicable portions of Section 550 and 561 of the Standard Specifications and the Standard Specifications for Water and Sewer Main Construction. In case of conflict between the Standard Specifications, the Standard Specifications for Water and Sewer Main Construction in Illinois shall take precedence and shall govern.

No testing or disinfections of the newly laid storm sewer water main will be required. A water-tight connection is required between the storm sewer water main and the storm sewer.

Method of Measurement: Storm sewer water main of the various diameters will be measured for payment in meters (feet), measured in place.

This work will be paid for at the contract unit price per foot for STORM SEWER WATER MAIN REQUIREMENT, of the diameter specified.

DUCTILE IRON WATER MAIN

Water mains shall have a minimum of five (5) feet cover in all directions.

All water main shall be ductile iron pipe manufactured in the USA in accordance with the latest revision of ANSI/AWWA C150/21.50 and C151/A121.51, of the pressure class specified on the plans, cement lined meeting ANSI/AWWA C104/A21.4* with push-on joints meeting ANSI/AWWA C111/A21.11*. A minimum of three (3) brass wedges per joint shall be installed. Pipe shall have standard asphaltic coating on the exterior.

Water main shall be polyethylene wrapped in accordance to ANSI/AWWA C105/A21.5*. Any tears or holes in polyethylene wrap shall be repaired.

Whenever pipe laying is not in progress, the open end of all pipe/fittings shall be plugged with a Clow F-1147 or equal plug.

Where casing pipe in trench is required, the casing pipe shall be six to eight inches larger than the outside diameter of the bells on the ductile iron pipe. Stainless steel/polyethylene casings chocks/spacers shall be used to keep the pipe centered in the casing and to prevent damage when the installation is made. Approved chocks/spacers shall be installed at a maximum of 6 foot intervals within the casing pipe such that no part of the carrier pipe rests on the casing pipe.

Approved casing chocks/spacers are:

- Powerseal 4810
- Cascade CCS
- RACI Spacers

Steel casing pipe in trench shall be 35,000 psi minimum yield strength, 0.375" wall thickness. Joints shall be welded. Ends of steel casing pipe shall be sealed with elastomer type material and stainless steel clamps by the BWM Co. or equal.

When necessary to deflect pipe from a straight line, the degree of deflection shall be approved by the Utilities Department representative. Maximum permissible deflection shall be three (3) degrees or 12 inches on a 20-foot length pipe.

Any interruption of service shall be held to a minimum length as determined and approved by the Utilities Department representative. Any damage to existing mains or services shall be repaired immediately. No valve, hydrant, or other control on the existing system shall be operated for any purpose by the contractor. Water used for trench compaction and for flushing and testing will be made available at the nearest facility by the City. The contractor will be required to pay for all water used from City facilities. The City will supply required meters after proper application is made and deposit paid. An approved backflow prevention device is required and shall be supplied by the contractor.

Fittings shall be manufactured in the U.S.A. and be ductile iron or gray cast iron. Ductile iron fittings shall conform to either ANSI/AWWA C110/A21.10* or C153/A21.53*. Gray iron fittings shall be in accordance with ANSI/AWWA C110/A21.10*. Fittings shall have a standard asphaltic coating on the exterior. Fittings shall also have a cement mortar lining on the interior in accordance with ANSI/AWWA C104/A21.4*. Connecting pipe shall be at least 18 inches long.

Thrust blocking shall be cast-in-place concrete (3500 psi) bearing against undisturbed soil. Reaction load shall be calculated as follows:

$$\begin{aligned} \text{Bends: } R &= 236 \times (\text{I.D.})^2 \times \sin(\frac{1}{2} \text{ angle of bend}) \\ \text{Cross, Tee, or Plug: } R &= 118 \times (\text{I.D.})^2 \end{aligned}$$

Soil bearing capacity shall be determined by the Engineer in the field.

If necessary to provide restrained joints for proper retention, either thrust blocking or a combination of a metal harness or retainer gland with thrust blocking may be used. The metal harness shall consist of 3/4 inch tie rods and metal socket clamps ("Cor-ten" eye bolts or Duc-Lugs). This assembly shall be completely coated with grease (no oxide) before backfilling.

Approved retainer glands are:

- EBBA Iron – Mega Lug Series 1100
- Sigma – One Lok
- Star Pipe Products – Stargrip Series 3000

Disinfection and Hydrostatic Testing: Disinfection and pressure testing procedures shall be performed by the Department of Public Utilities staff for all water mains and services four (4) inches and larger. Hydrostatic pressure tests shall be made with a minimum pressure of 150 psi for a period not less than one (1) hour and not more than six (6) hours. The basic provisions of AWWA C600 shall be applicable for both pressure and leakage testing except that no leakage shall be allowed.

The contractor shall provide the City with 48 hour notice for disinfection/pressure testing to allow for scheduling.

The rate to be charged for City staff to perform pressure testing and disinfection of water main and/or services 4" and larger are as follows:

| | |
|----------------------------------------|-------------|
| 0 to 500 feet | \$650.00 |
| Over 500 feet but less than 1,000 feet | \$1.30/foot |
| Over 1,000 feet | \$0.85/foot |

The footage shall be based on the total footage of a specific project and not each individual segment. A maximum of three (3) attempts to pass the required bacterial tests will be provided before a penalty charge is assessed.

All the work will be paid for at the contract unit price per linear foot for DUCTILE IRON WATER MAIN of the size specified, which shall include fittings, thrust blocks, tie rods, restrained joints, as required, bedding (except extra bedding), disinfection, and taps.

COPPER SERVICE TYPE K, 1", CORPORATION STOPS, 1" AND 2" AND DOMESTIC WATER SERVICE BOXES

The making and installation of all service connections, placing of all service pipes and the setting of all water service fittings within public rights-of-way shall be performed by a duly licensed plumber under the supervision of the City Plumbing Inspector, in complete accordance with all applicable sections of the City Plumbing Code and the Sewer and Water Specifications and ordinances.

Each water service pipe shall be connected to the water main through a brass corporation stop. The main shall be tapped at an angle of 45 degrees with the vertical, and the stop must be turned so that the T-handle will be on the top. Any damage, tears, cuts, etc. of the polyethylene wrap shall be repaired after tapping and prior to backfilling.

Service pipes must be placed at least five (5) feet below the surface of the ground. When pipes are placed in streets or grounds subject to fixed grades, where the surface of the ground is higher than the established grades, they shall be so placed that they will be at least five (5) feet below the established grade, except in sandy soil formation, the Public Utilities Department may require pipes to be placed to a depth of at least six (6) feet below the established grade. Service pipes shall run perpendicular from the main to the curb stop and box. For service connections to all water main installed prior to 1993 and to Class 52 D.I.P. water main installed after 1992, the corporations shall be installed through the following methods:

| <u>Size of Tap</u> | <u>Method of Tap</u> |
|--------------------------|----------------------|
| Less than or equal to 1" | Direct tap |
| Less than or equal to 2" | Approved saddle |
| Greater than 2" | Tapping sleeve |

For service connections to pressure class 350 water main installed after 1992, the corporations shall be installed through the following methods:

| <u>Size of Tap</u> | <u>Method of Tap</u> |
|-----------------------------------------|------------------------------------------------------------|
| Less than or equal to 2"- main in place | Direct tap (I.A.W. the following table) or Approved saddle |
| Less than or equal to 2"- new main | Direct Tap(I.A.W. the following table) or tapped TEE |
| Greater than 2"- new main | D.I.P. tee |
| Greater than 2" - main in place | Tapping sleeve |

**Maximum Direct Tap Size for
 3-Through 24-Inch Ductile Iron Pipe**

| Size (in.) | Pressure Class | | | | |
|-------------------------|----------------|-----|-------|-------|-------|
| | 150 | 200 | 250 | 300 | 350 |
| Maximum Direct Tap Size | | | | | |
| 3 | -- | -- | -- | -- | 3/4 |
| 4 | -- | -- | -- | -- | 3/4 |
| 6 | -- | -- | -- | -- | 1 |
| 8 | -- | -- | -- | -- | 1 |
| 10 | -- | -- | -- | -- | 1 |
| 12 | -- | -- | -- | -- | 1 1/4 |
| 14 | -- | -- | 1 1/4 | 1 1/2 | 1 1/2 |

| | | | | | |
|----|----|----|-----|---|---|
| 16 | -- | -- | 1 ½ | 2 | 2 |
| 18 | -- | -- | 2 | 2 | 2 |
| 20 | -- | -- | 2 | 2 | 2 |
| 24 | -- | 2 | 2 | 2 | 2 |

Approved service saddles are:

Powerseal 3412, 3413
 Smith Blair 317, or equivalent

Outlet connections shall be CC, corporation thread.

Tapping sleeves shall be of stainless steel construction equal to that manufactured by Power Seal 3490AS.

All corporation stops and curb stops shall be fabricated of brass and shall be provided with outlets suitable for copper connections and shall conform with AWWA/ANSI C800*. Curb stops shall be of the round-way type. Fittings for service pipe shall be copper and of the flare type.

Copper pipe shall be of copper water tube, Type K, soft temper, for underground service, conforming to ASTM B88-88. All joints shall be of the "flared union" type.

A curb stop box and shut-off for controlling the supply of water to customers shall be placed on every service. When connections are made in street or avenues, the stop box shall be placed 12 inches outside sidewalk line on the street side; and when made in alleys or in areas where no sidewalks exist, it shall be placed six (6) inches outside the lot line. The cover of said stop box shall be maintained at the same height as the sidewalk of surrounding ground by the owner of the premises. Where obstacles prevent the location of stop box and shut-off at the point indicated, they shall be placed on public right-of-way as directed by the plumbing inspector. All stop boxes must be set on a line drawn at right angles to the main through the service corporation or connection in the main.

Curb boxes shall be of the Buffalo or "arch" type, A.Y. McDonald #5601 or equal, of such construction that it shall be capable of extension to finished grade.

This work will be paid for at the contract unit price per foot for COPPER SERVICE TYPE K, 1", per each for CORPORATION STOPS, 1" and 2" and per each for DOMESTIC WATER SERVICE BOXES installed.

MANHOLE, TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID

This item shall be in accordance with Section 602 of the Standard Specifications, and the City of Moline standard details located on the plans. This work shall include but not be limited to installation of manholes and bases, installation of frames and lids, backfilling and connection of existing or proposed sewers as shown on the plans. The bottom, barrel and concentric transition sections of the manhole or flat top shall be constructed of precast reinforced concrete sections ONLY. Steps are not required and may be omitted. Sanitary Sewer manholes shall have a sealed exterior, sealed with Bitumastic Material meeting Federal specification SSC153C, Type 1 or SSA 649D. The frame and lid unless otherwise noted, shall be a NEENAH R-1712 or equal, with a "SELF-SEALING" lid and concealed pickhole.

This work will be paid for at the contract unit price for each for MANHOLE, TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID of the diameter specified, installed.

PLUG, MJ 8" AND PLUG, MJ 12"

This work shall be done in accordance with the Standard Specification for Water and Sewer Main. The plug shall be Clow F-1147 or equal plug.

This work will be paid for at the contract unit price per each for PLUG, MJ 8" and PLUG, MJ 12".

FIRE HYDRANTS

- A. Fire Hydrants shall be manufactured in accordance with AWWA Standard C502, be listed by Underwriters Laboratories, Inc. and have Factory Mutual Research approval.
 - B. Fire Hydrants shall be designed for 250 psi working pressure and tested to 400 psi hydrostatic pressure.
 - C. Fire Hydrants shall be backed by manufacturer's 10-year limited warranty.
 - D. Fire Hydrants shall be dry-top center stem construction having an O-Ring sealed lubrication reservoir.
 - E. Fire Hydrant shall be manufactured with operating nut and thrust nut made of bronze, with bearings located both above and below the thrust collar and with operating nut protected by a cast-iron weather shield.
 - F. Fire Hydrant shall be manufactured with nozzles mechanically locked into the barrel and having O-Ring pressure seals.
 - G. Fire Hydrant shall be a "Traffic Model", complete with safety flanges and steel stem coupling.
 - H. Nozzle section must rotate 360 degrees.
 - I. Fire Hydrant shall be manufactured with a main valve seat ring of bronze threaded into a bronze drain ring.
 - J. A 360 degree drain channel shall have a minimum of two drain outlets.
 - K. Fire Hydrant shall have an upper valve plate and two urethane rubber facings that activate the drain ports.
 - L. Fire Hydrant shall be manufactured with a lower valve plate that bottoms out in the shoe for maximum opening.
 - M. Fire Hydrant shall have a 1-1/2" pentagon operating nut and open left.
 - N. Fire Hydrant shall be 3 way with two 2-1/2" and one 4-1/2" NSHT nozzles.
 - O. Fire Hydrant shall be painted safety orange.
 - P. Fire Hydrant shall have 6" mechanical joint inlet.
 - Q. Fire Hydrant shall be manufactured with a minimum main valve opening of 5-1/4 inches.
- Approved hydrants are:

Mueller Super Centurian 250
Clow Medallion

- R. Precast concrete blocking shall be used to support hydrants as shown on Standard #27. Sufficient clean one (1) inch rock, CA-7, or equivalent rock shall be placed around the base of the hydrant to provide an adequate drain field. Rock must be placed to a minimum depth of six (6) inches above the lower flange.
- S. Where fire hydrant assemblies are called for, they shall include the required 6-inch gate valve and cast iron valve box and 6-inch Pressure Class 350 D.I.P. connecting pipe and fittings as shown on the Moline Standard in the plans.
- T. Fire hydrant depth of bury shall be limited to seven (7) feet. If depth of bury would exceed seven (7) feet, provide two 45-degree fittings with thrust blocks in connecting to limit depth of bury to six (6) feet.

This work will be paid for at the contract unit price per each for FIRE HYDRANTS, with bedding, (except extra bedding) and thrust blocking.

SANITARY SEWER D.I.P. PRESSURE CLASS 350

This work shall be done in accordance with applicable sections of the Sewer and Water Specifications and City of Moline standard details on the plans. These items shall include, but not be limited to, excavation, removal of existing sanitary sewer in the path of proposed sanitary sewer, supply and placement of bedding material, supply and placement of sanitary sewer of the size, noted on the plans and connecting the proposed sanitary sewer to existing sewers with approved mission couplings. Bedding material shall be CA-13.

Said connections and removal of existing sanitary sewers shall be incidental to these items. Salvage of existing sewer pipe will not be required. The cost of excavation for and location of all existing sanitary sewers shall be incidental to these items.

Sanitary sewer shall be D.I.P. of the class noted on the plans, conforming to the latest ANSI/AWWA C150/A21.50-91. Contractor shall conduct his operations so as to protect all "in-place" sanitary sewer and appurtenances. Damaged items shall be repaired or replaced at the contractor's expense. At no time shall raw sewage be allowed to flow along the new pipe bedding. Temporary piping may be installed in the trench to eliminate pumping during non-working hours. The cost of temporary piping and/or all by-pass pumping shall be incidental to this item. Sanitary sewer services shall be 6-inch dia. pipe. Pressure Class 350.

All sanitary sewer fittings and services shall be polyethylene wrapped in accordance with ANSI/AWWA C105/A21.5. Color shall be green.

Where a firm foundation for pipe placement is not encountered, at the grade established, due to soft, spongy or other unsuitable soil, all such unsuitable soil under the pipe and for the width of the trench shall be removed and replaced with well-compacted bedding material. The cost of furnishing, placing and compacting all bedding material will be considered as incidental work and no additional compensation will be allowed.

The contractor shall keep the trench free from water while the sewer is being placed and until the joint has been sealed. All costs associated with trench dewatering, for whatever reason, shall be incidental to this item.

The work will be paid for at the contract unit price per foot for SANITARY SEWER D.I.P. PRESSURE CLASS 350, of the size specified.

SANITARY SEWER TESTING

All sanitary sewers will receive a TV inspection by Water Pollution Control personnel prior to final City acceptance. The initial test will be done at no charge to the Contractor. Any required TV reinspection will be charged at a fee of \$100 per hour. Said fee will be deducted from the payment for "Sanitary Sewer".

VALVES

3" to 8" in diameter and all Tapping Valves:

Valves shall conform to the latest revision of AWWA Standard C-509 covering resilient seated gate valves and be approved by ULFM. The valves shall be non-rising stem, opening by turning stem left (counterclockwise) and provided with 2" square operating nut with the word Open and an Arrow cast in the metal to indicate direction to open. The wedge shall be of cast iron completely encapsulated with rubber. The sealing rubber shall be permanently bonded to the cast iron wedge to meet ASTM tests for rubber metal bond ASTM D429. Stems for NRS assemblies shall be cast bronze with integral collars in full compliance with AWWA. The NRS stem stuffing box shall be the o-ring seal type with two rings located above thrust collar. The two o-rings shall be replaceable with valve fully open and subjected to full rated working pressure. There shall be two low torque thrust bearings located above and below the stem collar. The stem nut shall be independent of wedge and shall be made of solid bronze. There shall be smooth, unobstructed waterway free of all pockets, cavities and depressions in the seat area.

The body and bonnet shall be coated with fusion-bonded epoxy both interior and exterior. The bonnet and stuffing box bolts and nuts shall be 304 stainless steel.

Each valve shall have maker's name, pressure rating and year in which manufactured cast on the body. Prior to shipment from factory, each valve shall be tested by hydrostatic pressure equal to requirements for both AWWA (twice the specified working pressure) and 400-PSI ULFM requirements.

Approved Gate Valves are: Clow Resilient Wedge Valve, F-6100
Mueller Resilient Wedge, 2360 Series

Valves ten inches (10") and above:

Butterfly valves shall be Class 150B conforming to ANSI/AWWA C504*. The two (2) inch square operating nut shall connect to the stainless steel shaft through an operator with a minimum gear ratio of 120:1. Butterfly valves shall be installed in a manhole with a minimum inside diameter of five (5) feet. Floor of manhole shall be poured in place or precast and sealed. Manhole lid shall be embossed "WATER". Approved butterfly valves are:

Pratt Groundhog
M &H/Clow
Mueller Line Seal III

Valve boxes shall be installed with all valves and shall be set on clean crushed stone. Valve box lid shall be embossed with "WATER". Approved valve boxes are:

For gate valves: Tyler 6860

The work for gate valves will be paid for at the contract unit price per each for VALVE GATE of the size and type specified, which shall include the cast iron valve box and thrust blocking. The work for the butterfly valves will be paid for at the contract unit price per each for BUTTERFLY VALVES of the size specified. Butterfly valve boxes or manhole and lid, and thrust blocking shall be paid for separately for butterfly valves.

*All referenced standards shall be latest revisions.

ABANDON AND FILL EXISTING SANITARY MANHOLES

This item shall consist of filling all existing sanitary manholes within the project limits, which are not removed, with an approved grout mixture and plugging all ends with concrete. Manholes may be filled with sand. This item shall also include the removal of all castings and first section of all manholes and cleanouts.

This work will be paid for at the contract unit price for ABANDON AND FILL EXISTING SANITARY MANHOLES.

FIRE HYDRANTS TO BE ADJUSTED AND FIRE HYDRANT AND VALVE TO BE MOVED

Effective January 10, 2004

This work shall conform to the applicable provisions of Section 564 of the Standard Specifications and the latest edition of the Standard Specifications for Sewer and Water Construction in Illinois as well as the following. Existing fire hydrants and valves shall be removed from their present locations and delivered to the City of Rock Island or the City of Moline maintenance facility. Removal of the hydrants and valves will require shutting off the water main. The City of Rock Island or the City of Moline shall be contacted 5 days in advance of this work so water customers can be notified of the interruption of service, if necessary, and issue a boil order notification, if necessary. City personnel shall operate all valves performing the shut down. All pipe and connections shall be restrained or blocked to withstand expected operating forces.

The hydrant and valve box shall be set or adjusted to conform with grades, and the excavation backfilled in accordance with Section 564.

This work will be paid for at the contract unit price per each for FIRE HYDRANTS TO BE ADJUSTED and FIRE HYDRANT AND VALVE TO BE MOVED, which price shall include all labor, material, fittings, accessories, adjustments, and restraints necessary to complete the work.

CONCRETE MEDIAN, TYPE SB (SPECIAL)

Effective April 8, 1996

This item shall be done in accordance with Section 606 of the Standard Specifications, Standards 606301 and 606001 and the typical section in the plans. The combination concrete curb and gutter along with the variable width concrete median shall be included in the cost of this item.

This work will be paid for at the contract unit price per square foot for CONCRETE MEDIAN, TYPE SB (SPECIAL).

NON-SPECIAL WASTE WORKING CONDITIONS

Effective January 10, 2004

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

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 material contaminated by regulated substances. **The generator number for Rock Island County is 1618995006.**

The Contractor shall excavate and dispose of any soil classified as a special waste or groundwater classified as a special waste as directed by this project or the Engineer. Any excavation or disposal beyond what is required by this project or the Engineer shall be at the Contractor's expense. The preliminary site investigation (PSI) report, available through the District's Environmental Studies Unit, estimated the excavation quantity of special waste at the following location. The information available at the time of plan preparation determined the limits of the contamination and the quantities estimated were based on soil and groundwater excavation for construction purposes only. The lateral distance is measured from centerline and the farthest distance is the offset distance or construction limit which ever is less. The Environmental Firm shall continuously monitor for worker protection and the Contractor shall manage and dispose of all soils excavated within the following areas as classified below.

1. 44th St. Connector Station 2+51 to Station 2+88 from 3j' Lt. to 117' Rt. (Hyland Toyota Body Shop) - special waste.

Although the above areas contain contaminated soil, the Environmental Firm must continuously monitor for worker protection and soil contamination at the following areas.

1. 44th St. Connector Station 2+51 to Station 2+88 from 3j' Lt. to 117' Rt. (Hyland Toyota Body Shop).

Basis of Payment: LEAD TCLP SOIL ANALYSIS using an ICP instrument and EPA Methods 1311 (extraction) and 6010B will be paid for at the contract unit price per each. This price shall include transporting the sample from the job site to the laboratory.

RUB RAIL

This work shall consist of furnishing and attaching a timber rub rail to the back of guardrail posts, at the locations shown in the plans. All work shall conform to the details shown in the plans and applicable portions of Sections 630, 633 and 1007 of the Standard Specifications.

This work will be paid for at the contract unit price foot for RUB RAIL, which price shall include all labor, materials and equipment necessary to complete the work.

INLETS TO BE RECONSTRUCTED (SPECIAL)

Effective December 12, 2004

INLETS TO BE RECONSTRUCTED (SPECIAL) shall be done in accordance with Section 602 of the Standard Specifications and the District 2 Standard 79.4 Drawings.

This existing concrete walls shall be removed to an elevation where a temporary roadway can be constructed over the top of the inlet. A steel plate shall be placed over the inlet to accommodate traffic during stage construction.

Upon completion of stage construction, the inlet wall will be reconstructed to their original configuration with Class S1 concrete and a new concrete lid with frame and grate will be installed.

The Contractor will be responsible for removal and disposal of all existing material.

This work will be paid for at the contract unit price per each for INLETS TO BE RECONSTRUCTED (SPECIAL).

ENGINEER'S FIELD OFFICE TYPE A

This item shall consist of renting the existing field office and laboratory at the end of 69th Avenue in Moline. The Contractor will be required to supply the following communication lines. These lines exist in the existing field office. The Contractor can put these in their name and continue service.

Revise Article 670.02 (I) of the Standard Specifications to read:

- (i) Provide a minimum of three (3) communications paths to each field office. The configuration would include (1) a land based, touch-tone telephone line with answering machine and fax capabilities (2) a wireless phone connection with a minimum of 500 anytime calling minutes per month and (3) a connection using a broadband service with Internet access, all to be used exclusively by the Engineer. All connection costs shall be contracted at the lowest costs available for the region of service. Any deviation from the desired configurations shall be subject to the approval of the District Construction Engineer.

Revise the last line of the first paragraph of Article 670.07 of the Standard Specifications to read:

This price shall include all utility costs, except the Department will pay that portion of each monthly long distance telephone bill in excess of \$50.00 for the land based telephone line.

INTERSECTION POLYUREA PAVEMENT MARKING

Effective September 2, 2003

This work shall consist of furnishing and applying intersection polyurea pavement marking lines, letters & symbols of the sizes and colors as shown on the plans. Polyurea-based liquid pavement markings shall be applied only by contractors on the list of Approved Polyurea Contractors maintained by the Engineer of Operations and in effect on the date of advertisement for bids.

All materials shall meet the following specifications:

- (A) The intersection polyurea pavement markings shall consist of essentially 100 percent solid two-part system formulated and designed to provide a simple volumetric mixing ratio of two-components. The mixing ratio of the two-components must be either two volumes of Part A to one volume of Part B or three volumes of part A to one volume of part B. No volatile or polluting solvents or fillers will be allowed.
- (B) Pigment Content: Determine the pigment content by weight of Component A by low temperature washing ASTM D 3723. The pigment content shall not vary more than ± 2 percent from the pigment content of the original qualified paint.
- White Pigment must be Titanium Dioxide meeting ASTM D-476 Type II, Rutile.
Yellow Pigment must be an Organic Yellow and contain no heavy metals.
- (C) Upon heating to application temperature, the material shall not give off fumes that are toxic or injurious to persons or property. The manufacturer shall provide material safety data sheets for the product
- (D) Daylight Reflectance: The daylight directional reflectance of the cured polyurea material (without reflective media) shall not be less than 80 percent (white) and 50 percent (yellow) relative to magnesium oxide when tested using a color spectrophotometer with a 45 degrees circumferential /zero degrees geometry, illuminant C, and two degrees observer angle. The color instrument shall measure the visible spectrum from 380 to 720 nm with a wavelength measurement interval and spectral bandpass of 10 nm. In addition, the color of the yellow polyurea shall visually match Color Number 33538 of Federal Standard 595a and chromaticity limits as follows.

| | | | | |
|---|-------|-------|-------|-------|
| X | 0.490 | 0.475 | 0.485 | 0.539 |
| Y | 0.470 | 0.438 | 0.425 | 0.456 |

- (E) Weathering Resistance: The polyurea marking material, when mixed in the proper ratio and applied at 0.35 mm to 0.41 mm (14 to 16 mils) wet film thickness to an aluminum alloy panel and allowed to cure for 72 hours at room temperature, shall be subjected to accelerated weathering for 72 hours. The accelerated weathering shall be completed by using the light and water exposure apparatus (fluorescent UV - condensation type) testing in accordance with ASTM G 53 using a cycle which consists of 4 hours UV exposure at 50 °C (122 °F) and 4 hours of condensation at 40° C (104° F). UVB 313 Bulbs shall be used. At the end of the exposure period, the material shall show no substantial change in color or gloss.
- (F) Dry Time: When installed at a field temperature of 25° C (77° F), at a wet film thickness of 20 ± 1 mils and reflectorized with glass beads, the polyurea markings shall reach a no-track condition in 10 minutes or less. Dry to “no-tracking” shall be considered as the condition where no visual deposition of the polyurea marking to the pavement surface is observed when viewed from a distance of 50 feet, after a traveling vehicle’s tires have passed over the line.
- (G) Adhesion: The catalyzed polyurea pavement marking materials when applied to a 100 mm x 100 mm x 50 mm (4 in. x 4 in. x 2 in.) concrete block, shall have a degree of adhesion which results in a 100 percent concrete failure in the performance of this test. The concrete block shall be brushed on one side and have a minimum strength of 24,100 kPa (3500 psi). A 50 mm (2 in.) square film of the mixed polyurea shall be applied to the brushed surface and allowed to cure for 72 hours at room temperature. A 50 mm (2 in.) square cube is then affixed to the surface of the polyurea by means of an epoxy glue. After the glue has cured for 24 hours, the polyurea specimen is placed on a dynamic testing machine in such a fashion so that the specimen block is in a fixed position and the 50 mm (2 in.) cube (glued to the polyurea surface) is attached to the dynamometer head. Slowly apply direct upward pressure until the polyurea system fails. Record the location of the break and the amount of concrete failure.
- (H) Hardness: The polyurea pavement marking materials when tested according to ASTM D2240, shall have a shore D hardness of between 70 and 100. Films shall be cast on a rigid substrate at 0.35 mm to 0.41 mm (14 to 16 mils) in thickness and allowed to cure at room temperature for 72 hours before testing.
- (I) Abrasion. The abrasion resistance shall be evaluated according to ASTM D 4060 using a Taber Abrader with a 1,000 gram load and CS 17 wheels. The duration of test shall be 1,000 cycles. The loss shall be calculated by difference and be less than 110 mgs. The tests shall be run on cured samples of polyurea material which have been applied at a film thickness of 0.35 mm to 0.41 mm (14 to 16 mils) to code S-16 stainless steel plates. The films shall be allowed to cure at room temperature for at least 72 hours before testing.
- (J) The reflective media shall meet the following requirements:

The glass beads shall meet the requirements of Article 1095.07 and the following requirements:

- (a) The first drop glass beads shall be tested by the standard visual method of large glass spheres adopted by the Department. The beads shall have a silane coating and meet the following sieve requirements:

| Sieve Size | U.S. Standard Sieve Number | % Passing (By Weight) |
|------------|----------------------------|-----------------------|
| 1.70 mm | 12 | 95-100 |
| 1.40 mm | 14 | 75-95 |
| 1.18 mm | 16 | 10-47 |
| 1.00 mm | 18 | 0-7 |
| 850 µm | 20 | 0-5 |

- (b) The second drop glass beads shall meet the requirements of Type B.

- (K) Packaging: Glass beads shall be delivered in approved moisture proof bags or weather resistant bulk boxes.

Moisture proof bags shall consist of at least five-ply paper construction unless otherwise specified. Each bag shall contain 22.7 kg (50 pounds) net, and shall be legibly marked with the manufacturer, specifications and type, lot number, and the month and year the glass beads were packaged. The letters and numbers used in the stencils shall be a minimum of 12.7 mm. (1/2 inch) in height.

Bulk weather resistance boxes must conform to Federal Specification PPP-8-640D Class II or latest revision. Boxes are to be weather resistant, triple wall, fluted, corrugated-fiber board. Cartons shall be strapped with two (2) metal straps. Straps shall surround the outside perimeter of the carton. The first strap shall be located approximately 2 inches from the bottom of the carton and the second strap shall be placed approximately in the middle of the carton. All cartons shall be shrink wrapped for protection from moisture. Cartons must be lined with a minimum 4 mil polyester bag and meet ICC requirements. Cartons shall be approximately 38 X 38 inches, contain 2,000 lbs. of glass beads and be supported on a wooden pallet with fiber straps. Each carton shall be legibly marked with the manufacturer, specifications and type, lot number, and the month and year the glass beads were packaged. The letters and numbers used in the stencils shall be a minimum of 12.7 mm (1/2 inch) in height.

- (L) The material shall be shipped to the job site in substantial containers and shall be plainly marked with the manufacturer's name and address, the name and color of the material, date of manufacture, and batch number.
- (M) Prior to approval and use of the polyurea pavement marking materials, the manufacturer shall submit a notarized certification of an independent laboratory, together with the results of all tests, stating these materials meet the requirements as set forth herein. The certification test report shall state the lot tested, manufacturer's name, brand name of polyurea and date of manufacture.

After approval by the Department, certification by the polyurea manufacturer shall be submitted for each batch used. New independent laboratory certified test results shall be submitted any time the manufacturing process or paint formulation is changed. All costs of testing shall be borne by the manufacturer.

- (N) The manufacturer shall retain the test sample for a minimum of 18 months.

APPLICATION EQUIPMENT

The polyurea pavement marking compounds shall be applied through equipment specifically designed to apply two component liquid materials in 2 to 1 volumetric ratio. The equipment may be equipped to dispense glass beads. If the equipment is not equipped to dispense glass beads, an auxiliary method of dispensing the beads will be required. The two-component liquid materials shall be applied after being accurately metered and then mixed with a static mix tube or airless impingement mixing guns.

The equipment shall have a metering device to register the accumulated installed quantities for each gun, each day.

The mobile applicator shall include the following features:

1. The mobile applicator shall provide individual material reservoirs, or space for the storage of Part A and Part B of the resin composition. The material reservoir for Part B shall be provided with a means to exclude moisture, such as a nitrogen blanket or air input that has been dried with a desiccant.
2. The applicator shall be equipped with heating equipment of sufficient capacity to reduce the viscosity of Part A and Part B. If so, the heating should allow the maintenance of a temperature range of 38 to 66° C (100 to 150° F) and should never allow the material to attain a temperature greater than 68° C (155° F). The equipment shall be capable of heating and maintaining the Part A and Part B liquid components at separate, controllable temperatures to enable proper loading, mixing and spraying of the material.
3. The applicator may be equipped with glass bead dispensing equipment capable of dispensing the glass beads after the liquid has been applied. If the applicator is not equipped to dispense beads, an alternative means of dispensing glass beads will be required.
4. The application equipment shall be equipped with metering devices or pressure gauges on the proportioning pumps as well as stroke counters to monitor volumetric usage. Metering devices or pressure gauges and stroke counters shall be visible to the engineer.

APPLICATION

The pavement shall be cleaned by a method approved by the Engineer, or as recommended by the manufacturer of the material, 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. New PCC pavements shall be blast-cleaned to remove all latents.

Prior to the application of the polyurea pavement markings, over any existing pavement markings, the existing pavement markings shall be removed as approved by the Engineer or as recommended by the manufacturer of the material. The removal of the existing pavement markings shall be paid for in accordance with Section 783 of the Standard Specifications for Road and Bridge Construction.

Markings shall be applied to the cleaned surfaces on the same calendar day. If this cannot be accomplished, the surface shall be re-cleaned prior to applying the markings. No markings shall be applied until the Engineer approves the cleaning.

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 pavement markings shall be applied to the cleaned road surface, during conditions of dry weather and subsequently dry pavement surfaces at a minimum uniform wet thickness of **20 mils** in accordance with the manufacturer's installation instructions and at the widths and patterns shown on the contract plans. On open grade friction course surface, the pavement markings shall be applied at a minimum uniform wet thickness of **25 mils**. At the time of installation the pavement surface temperature and the ambient temperature shall be above 4° C (40° F) and rising. The pavement markings shall not be applied if the pavement shows any visible signs of moisture or it is anticipated that damage causing moisture, such as rain showers, may occur during the installation and set periods. The Engineer shall determine the atmospheric conditions and pavement surface conditions that produce satisfactory results.

The specified reflective media (glass beads) as specified by the manufacturer shall be dropped onto the liquid marking (within one minute of spraying the liquid onto the pavement surface) and applied at a rate of 0.12 pounds per square foot (54 grams per square foot).

Using the application equipment the pavement markings shall be applied in the following manner, as a simultaneous operation:

- (1) The surface is air-blasted to remove any dirt and residue if present.
- (2) The resin, mixed and heated in accordance with the manufacturer's recommendations, is sprayed onto the pavement surface. Part A shall be thoroughly mixed (mechanical agitation is strongly recommended) prior to use.
- (3) Unless directed by the Engineer, lines shall not be laid directly over a longitudinal crack or joint. The edge of the center line or lane line shall be offset a minimum distance of 50 mm (2 inches) from a longitudinal crack or joint.

Notification:

The Contractor shall notify the Engineer 72 hours prior to the placement of the markings in order that an inspector can be present during the operation. At the time of this notification, the Contractor shall indicate the manufacturer and lot numbers of polyurea and reflective media that he intends to use. The Engineer will ensure that the approved lot numbers appear on the material package. Failure to comply with this provision may be cause for rejection.

The Contractor shall provide an accurate temperature-measuring device(s) that shall be capable of measuring the pavement temperature prior to application of the material, the material temperature at the gun tip and the material temperature prior to mixing.

Inspection:

The polyurea pavement markings will be inspected following installation, but no later than December 15, and inspected following a winter performance period that extends 180 days from December 15 in accordance with the provisions of Article 780.10 of the Standard Specification for Road and Bridge Construction.

Method of Measurement:

The lines will be measured for payment in feet of polyurea pavement marking lines applied and accepted, measured in place. Double yellow lines will be measured as two separate lines. Words, letters and symbols shall conform to the size and dimensions specified in the Illinois Manual on Uniform Traffic Control Devices, Standard 780001 and will be measured based on the total areas indicated in Table 1 of Section 780 of the Standard Specifications for Road and Bridge Construction or as specified in the plans.

Basis of Payment:

This work will be paid for at the contract unit prices per foot of applied line for POLYUREA PAVEMENT MARKING SPECIAL - LINE 4, 6, 8, 12 or 24 inches or per square foot for POLYUREA PAVEMENT MARKING - LETTERS AND SYMBOLS.

SERVICE INSTALLATION, TYPE A (MODIFIED)

This work shall conform to the applicable portions of Section 805 of the "Standard Specifications for Road and Bridge Construction." The service shall contain a 60 amp circuit breaker for the traffic signal circuit and a 20 amp circuit breaker for the lighting circuit, with one leg metered for the traffic signals and the other leg of the 240-volt service bypassing the meter for the street lights.

This work will be paid for at the contract unit price each for SERVICE INSTALLATION, TYPE A (MODIFIED).

PVC CONDUIT (GENERAL)

Coilable, high-density polyethylene (HDPE) conduit may be substituted for PVC conduit as long as it meets the requirements of Section 810 of the "Standard Specifications for Road and Bridge Construction" (Standard Specifications). No additional compensation will be allowed for any substitutions.

FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL

This work shall conform to the applicable portions of Section 857 of the Standard Specifications. The equipment furnished shall be the latest EPAC and connection, model M-52 fiber optic capable controller manufactured by Eagle Signal. A telephone modem shall be included in the Ramp 1 & 2 controller only. The assembly shall be Eagle MARC 360 System compatible. The controller shall include manual control complete with push-button and a coiled cord. The cabinet shall include a separate 30-amp circuit breaker for the street lights. The ground rod for this item shall be located in the adjacent double handhole. It shall be connected with 1/C No. 6 grounding cable.

This work will be paid for at the contract unit price per each for FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL.

STEEL COMBINATION MAST ARM ASSEMBLY AND POLE

These items shall comply with the applicable portions of Section 877 of the Standard Specifications. In addition, all Mast Arm Assemblies shall include a fifteen (15) foot street light arm at a forty (40) foot mounting height mounted directly over the mast arm as shown on the plans. All traffic signal mast arm assemblies (standard, combination or dual) must be designed for the loadings shown on the Highway Standards or these signal plans, whichever is greater.

This work will be paid for at the contract unit price each for STEEL COMBINATION MAST ARM ASSEMBLY AND POLE of the arm length specified.

CONCRETE FOUNDATION, TYPE D

This item shall comply with the applicable portions of Section 878 of the Standard Specifications. The grounding electrode to be installed as part of this item shall be installed in the bottom of the adjacent double handhole. The bare 1/C No. 6 cable shall be attached to the grounding electrode using a CADWELD process and the cable routed through the conduit and connected to the ground connection in the controller cabinet.

This work will be paid for at the contract unit price per foot for CONCRETE FOUNDATION, TYPE D.

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

This item shall comply with the applicable portions of Section 895 of the Standard Specifications. The work will involve removing the existing traffic signal equipment at the intersection of Blackhawk Rd. and 44th St. as indicated on the plans. All removed equipment shall become the property of the Contractor and shall be disposed of properly.

This work will be paid for at the contract unit price per each for REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.

REMOVE AND RELOCATE LIGHT POLE AND MAST ARM

This work shall comply with the applicable portions of Section 844 of the Standard Specifications for Road and Bridge Construction. The work consists of removing the existing direct buried light poles and resetting them at the locations shown on the plans or as directed by the Engineer. Any poles or luminaries damaged during the removal and relocation work shall be replaced or repaired at the direction of and to the satisfaction of the Engineer. At his option the Contractor may furnish new poles in lieu of reusing the existing poles at no additional expense. If bases are required for the new poles they are also included in this pay item. Any new poles shall be approved by the Engineer prior to ordering. Grounding shall be required for the relocated poles similar or equal to the ground in the existing poles. All work and materials for grounding will be included in this pay item.

This work will be paid for at the contract unit price per each for REMOVE AND RELOCATE LIGHT POLE AND MAST ARM.

CONDUIT, FLEXIBLE METALLIC, WEATHERPROOF, 2" DIAMETER

Description. This work shall consist of installing flexible conduit at bridge expansion joints. These flexible expansion joints are at locations on the bridge where movement will damage rigid conduit and are shown on the plans.

Materials. The conduit and fittings shall meet the requirements of Article 1088.01 of the Standard Specifications.

Installation. The flexible conduit shall be installed according to Section 811 of the Standard Specifications. In addition to installing the flexible conduit, this work shall include gland nuts, fitting, hardware, and all miscellaneous items necessary to make the connections to the rigid conduit system and/or stainless steel junction box, attached to the structure.

When electrical continuity of the conduit system is required, the connections shall include bonding of the metallic core and/or bonding strap of the flexible conduit to the rigid conduit or box. Connections shall be made and coated in a manner approved by the Engineer.

Basis of Payment. This work will be paid for at the contract unit price each for CONDUIT, FLEXIBLE METALLIC, WEATHERPROOF, 2" DIAMETER. The length of the conduit is based on the maximum amount of movement at each location and shall be determined by the Engineer.

ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1C

This work shall conform to the applicable portions of Section 873 of the Standard Specifications for Road and Bridge Construction. This item involves installing a No. 6 cable from each of the ground connections in the mast arm poles to the grounding electrode in the bottom of the double handhole. All connections to the grounding electrodes shall use the CADWELD process. In addition, this cable shall connect the grounding electrode in the double handhole and the grounding electrode at the service installation. The insulation on this cable shall be green in color.

This work will be paid for at the contract unit price per foot for ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1C.

VIDEO VEHICLE DETECTION SYSTEM

This item shall include all material and labor necessary to furnish and install a video detection system at the three (3) intersections as shown on the plans.

The system to be installed is the Iteris Vantage System, latest model. It shall include four (4) cameras, the processor unit, connectors, software and all cabling necessary back to the controller. This system is necessary to provide compatibility with the Eagle controller to be installed on this project. All the equipment shall be installed according to manufacturer's recommendations. The video detection cameras shall be capable of being zoomed and focused from a connection in the controller cabinet.

One (1) spare camera shall be furnished to the City of Moline.

Consultation and service shall be provided by Brown Traffic Products at no charge to the City of Moline for a period of ninety (90) days following final acceptance of the traffic signals.

This work will be paid for at the contract unit price per Each sum for VIDEO VEHICLE DETECTION SYSTEM.

UNIT DUCT, WITH 4-1/C NO. 6, 600V (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE

This item shall conform to the applicable portions of Section 816 of the Standard Specifications for Road and Bridge Construction. Connections necessary in the terminal facility Lt. Sta. 3+02 (3rd Street) are included in this item as are the connections and new splicing in the existing light pole Lt. Sta. 218+83 (52nd Avenue).

This work will be paid for at the contract unit price per foot for UNIT DUCT, WITH 4-1/C NO. 6, 600V (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE.

BUS SHELTER REMOVAL

Effective November 12, 2004

This work shall consist of the removal and proper disposal of the bus shelter structure and its concrete pad at the location shown in the plans and as noted below.

The existing bus shelter is located on the West side of 3rd Street at 0+65 RT. It is owned by the Rock Island County Metropolitan Mass Transit District (RICMMTD).

The contractor shall provide 48 hours of notice to RICMMTD in order for them to salvage any items that can be reused by them. The contact person is Dan Payne. The contact number is (309) 788-3360 (x22).

This work will be paid for at the contract unit price each for BUS SHELTER REMOVAL.

TURF REINFORCEMENT MAT

Effective September 15, 2004

Turf Reinforcement Mat (TRM). This item shall be a product specifically manufactured for both temporary and permanent erosion control, re-vegetation and the reduction of runoff flow velocities in ditches and overflows. Turf Reinforcement Mats shall be installed in strict accordance with the manufacturer's recommendations, and with a manufacturer's representative present.

The Turf Reinforcement Mat shall be placed within 24 hours after seeding operations have been completed on the areas specified. Prior to placing the Turf Reinforcement Mat, the areas to be covered shall be relatively free of rocks or clods over 40 mm (1 ½ in.) in diameter, and sticks or other foreign material which will prevent the close contact of the blanket with the seed bed. If, as the result of rain, the prepared seed bed becomes crusted or eroded, or if eroded places, ruts or depressions exist for any reason, the Contractor shall rework the soil until it is smooth and reseed such areas which are reworked. After the area has been properly shaped, fertilized, and seeded, the Turf Reinforcement Mat shall be laid out flat, evenly and smoothly, without stretching the material.

The Turf Reinforcement Mat shall be comprised of non-degradable, U.V. stabilized synthetic fibers, filaments, netting, and/or wire mesh processed into a three-dimensional reinforced mat. The mats may include degradable material to assist with vegetation establishment.

The Turf Reinforcement Mat must meet the following physical and performance properties:

| Property | Values | Test Methods |
|----------------------------------------------|------------|------------------------------------------------------------|
| Minimum Tensile Strength Lbs./Ft (kn/m) | 150 (2.19) | ASTM D5035 |
| UV Stability (Minimum % Tensile Retained) | 100 | ASTM D4355 (1000 hr Exposure) |
| Minimum Resiliency (% Thickness Retained) | 95 | ASTM D6524 |
| Allowable Shear Stress (Pa) lbs/sq ft* | 12 (574) | ECTC approved test method and independent laboratory |

* Maximum Shear Stress (fully vegetated) can sustain without physical damage during a 30 minute flow event.

This work will be paid for at the contract unit price square yard for TURF REINFORCEMENT MAT.

BALLED AND BURLAPPED TREE PLANTING

Effective May 17, 1996

253.01 Description. This work shall consist of digging and preparing plant holes and furnishing, transporting, and planting the balled and burlapped size of trees and other materials in accordance with applicable portions of Section 253 of the Standard Specifications.

It shall also include all incidental operations such as mulching, wrapping (predator protection), care of living plants, and replacement of unsatisfactory plants.

The existing dead trees shall be removed and replaced at the same locations. The site locations are designated on the mitigation tree planting layout sheet.

Site 3: Replace two Quercus palustris and two Quercus bicolor.

Site 7: Replace 13 Platanus occidentalis.

253.11 Mulch Cover. Revise to read: “A wood chip mulch four inches in depth shall be provided to all plants. This mulch shall cover the entire area excavated for the plant holes. The following guidelines are provided:

Balled and burlapped trees shall be mulched to a depth of four inches in a circular pattern with 36-inch diameters measured from the center of the hole. These items will require geotextile fabric.

253.12 Wrapping. Revise to read: “Within 7 days after planting all balled and burlapped tree trunks shall be wrapped from the ground line to a height of 3 feet with a one-half inch square mesh, galvanized, steel wire with a minimum gauge of 19 (poultry netting) at a diameter of 14 inches measured from the center of the trunk with a 4-inch overlap. The screen wire shall be secured with a minimum of four steel staples (hog rings).” This will provide predator protection.

253.13 Bracing. Bracing shall be applied as described.

253.16 Method of Measurement. Revise the second paragraph to read: “The excavation and disposal of excavated materials, dead plant material, wood chip mulch, tree wrapping, and care of the plants are incidental to the contract.

781.01 Materials for Planting. Add the following to (a) Quality of Plant Material part (1): “Plants shall have been growing a minimum of one year in the ground or container at the inspection location.”

781.06 Mulch Material. Add the following:

Wood Chip Mulch: Wood Chip Mulch shall consist of hardwood (deciduous) chips originating from tree trunks and larger limbs. It shall be free from bark, leaves, twigs, sawdust, foreign and extraneous matter, debris and toxic substance. Individual pieces shall not be similar than one inch in the smallest dimension nor larger than one and three quarters inch in the largest dimension.

SEEDLING TREE PLANTING

Effective March 20, 2001

253.01 Description: This work shall consist of digging and preparing plant holes and furnishing, transporting, and planting the seedling size of trees and other materials in accordance with applicable portions of Section 253 of the Standard Specifications.

It shall also include all incidental operations such as tree shelters (predator protection), care of living plants, and replacement of unsatisfactory plants.

253.03 Planting Time: Spring planting.

253.11 Mulch Cover: Revise to read: “A wood chip mulch five foot in diameter, four inches thick, with geotextile fabric shall be provided to all seedlings.

253.12 Wrapping. Revise to read: “Within 7 days after planting, all seedling tree trunks shall be wrapped from the ground line to a height of 3 feet with a one half inch square mesh, galvanized, steel wire with a minimum gauge of 19 (poultry netting) at a diameter of 14 inches measured from the center of the trunk with a 4 inch overlap. The screen wire shall be secured with a minimum of four steel staples (hog rings).” This will provide predator protection.

PIPE BANDS

Pipe bands for pipe drains and corrugated metal pipes shall be a minimum of 2 feet wide.

The cost of the pipe bands shall be included in the cost of the pipe.

CONSTRUCTION TIME RESTRICTION

No work will be permitted on the Milan Beltway between I-280 and the Rock River until August 21, 2006 or when written permission by the District Soils Engineer is obtained. This is needed for the settlement of the fill in this area.

The pavement on 52nd Avenue, Milan Beltway, and the ramps, as shown on the STAGE I Beltway Ext./52nd Ave. Construction Plan, except as noted above, shall not be started until 6 months after the earthwork has been completed. This is necessary to allow for settlement of the embankment.

BRIDGE APPROACH PAVEMENT (SPECIAL)

Description: This work consists of the construction of the bridge approach pavements in accordance with the applicable portions of Section 420 of the Standard Specifications and as detailed in the plans.

Method of Measurement: BRIDGE APPROACH PAVEMENT (SPECIAL) will be measured for payment in square yards according to the pay limits indicated on the plan details.

Basis of Payment: This work will be paid for at the contract unit price per square yard for BRIDGE APPROACH PAVEMENT (SPECIAL) which price shall include payment in full for tie bars, preformed joint seal, bond breaker, reinforcement bars, grade beam (including reinforcement and excavation), subbase and improved subgrade.

REMOVE EXISTING CULVERTS

Effective August 24, 1995

This work shall consist of the removal and satisfactory disposal of existing culverts at locations shown in the plans. These culverts may be concrete or clay, with or without concrete headwalls, or metal pipes with concrete headwalls. Metal pipes without headwalls will not be paid for with this pay item, but shall be removed as specified in the General Notes.

If materials resulting from the removal of the concrete culverts and headwalls are to be used in the embankment, they shall conform to, and be placed and compacted in accordance with Section 205 of the Standard Specifications.

All corrugated metal pipe culverts in condition for re-use shall be cleaned and stored along the right of way. Any re-usable pipe damaged by the Contractor shall be replaced by him at his expense.

All unusable material shall be disposed of by the Contractor at his expense.

All costs incurred in conforming with this special provision shall be included in the contract unit price Each for REMOVE EXISTING CULVERTS.

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

Description. This work shall be done according to Section 606 of the Standard Specifications except that the curb shall be depressed as shown on State Standard 606001.

Method of Measurement. The curb and gutter will be measured in feet in the flow line of the gutter. The length of transition from Type A gutter to Combination Concrete Curb and Gutter Type B-6.24 will be included in the measured quantities for Combination Concrete Curb and Gutter Type B-6.24 (Special).

Basis of Payment. The curb and gutter will be paid for at the contract unit price per foot for Combination Curb and Gutter Type B-6.24 (Special).

CULVERT TO BE CLEANED

Effective April 22, 1991

Revised April 18, 1994

This work shall consist of cleaning out culverts specified to their original flowline, using a method approved by the Engineer. The material removed shall be disposed of in accordance with Article 202.03 of the Standard Specifications or it may be used on the job to flatten foreslopes if approved by the Engineer.

This work will be paid for at the contract unit price per Meter (Foot) for CULVERT TO BE CLEANED. For multi-cell culverts, each +barrel will be measured for payment.

REMOVAL AND REINSTALLATION OF EXISTING IMPACT ATTENUATORS

This work shall consist of maintaining an impact attenuator in a temporary location and its subsequent removal and reinstallation in a final location.

As a part of this project, an Impact Attenuator (Fully Redirective, Narrow) Test Level 3 will be installed in a temporary shown in the plans. Upon completion of the stage construction it will be removed and reinstalled at its permanent location shown in the plans. All work shall conform to the applicable portions of BDE Special Provisions No. 36 and No. 37. Any portion of the Impact Attenuator damaged by the Contractor during construction shall be replaced by him at his own expense.

This work will be paid for at the contract unit price each for REMOVAL AND REINSTALLATION OF EXISTING IMPACT ATTENUATORS, which price shall include all labor, materials and equipment necessary to complete the work.

PORTLAND CEMENT CONCRETE PAVEMENT 7 3/4" (JOINTED) W/ INTEGRAL CURB

This work shall consist of constructing a portland cement concrete pavement with attached integral curb.

The integral curb shall be constructed in accordance with the applicable portions of BLR Standard 10-3. All work shall be conformed to the applicable portions of Sections 420 and 606 of the Standard Specifications. The width of the pavement for payment will be considered to be from back-to-back of curbs.

This work will be paid for at the contract unit price square yard for PORTLAND CEMENT CONCRETE PAVEMENT 7 3/4" (JOINTED) W/ INTEGRAL CURB, which price shall include all labor, materials and equipment necessary to complete the work.

BITUMINOUS CONCRETE SURFACE COURSE (BDE)

Effective: April 1, 2001

Revised: April 1, 2003

Replace the fourth paragraph of Article 406.23(b) of the Standard Specifications with the following:

“Mixture for cracks, joints, flangeways, leveling binder (machine method), leveling binder (hand method) and binder course in excess of 103 percent of the quantity specified by the Engineer will not be measured for payment.

Surface course mixture in excess of 103 percent of adjusted plan quantity will not be measured for payment. The adjusted plan quantity for surface course mixtures will be calculated as follows:

Adjusted Plan Quantity = C x quantity shown on the plans or as specified by the Engineer.

where C = metric: $C = \frac{G_{mb} \times 24.99}{U}$ English: $C = \frac{G_{mb} \times 46.8}{U}$

and where:

G_{mb} = average bulk specific gravity from approved mix design.

U = Unit weight of surface course shown on the plans in kg/sq m/25 mm (lb/sq yd/in.), used to estimate plan quantity.

24.99 = metric constant.

46.8 = English constant.

If project circumstances warrant a new surface course mix design, the above equations shall be used to calculate the adjusted plan quantity for each mix design using its respective average bulk specific gravity.”

80050

BITUMINOUS EQUIPMENT, SPREADING AND FINISHING MACHINE (BDE)

Effective: January 1, 2005

Revise the fourth paragraph of Article 1102.03 of the Standard Specifications to read:

“The paver shall be equipped with a receiving hopper having sufficient capacity for a uniform spreading operation. The hopper shall be equipped with a distribution system to uniformly place a non-segregated mixture in front of the screed. The distribution system shall have chain curtains, deflector plates, and/or other devices designed and built by the paver manufacturer to prevent segregation during distribution of the mixture from the hopper to the paver screed. The Contractor shall submit a written certification that the devices recommended by the paver manufacturer to prevent segregation have been installed and are operational. Prior to paving, the Contractor, in the presence of the Engineer, shall visually inspect paver

parts specifically identified by the manufacturer for excessive wear and the need for replacement. The Contractor shall supply a completed check list to the Engineer noting the condition of the parts. Worn parts shall be replaced. The Engineer may require an additional inspection prior to the placement of a surface course or at other times throughout the work.”

80142

BRIDGE DECK CONSTRUCTION (BDE)

Effective: April 1, 2002

Revised: April 1, 2004

Add the following to Article 503.03 of the Standard Specifications:

“(h).Fogging Equipment.....1103.17(k)”

Add the following after the first sentence of the second paragraph to Article 503.07 of the Standard Specifications:

“When placing Class BD concrete, the discharge end of the pump shall have attached an “S” shaped flexible or rigid conduit, a 90 degree elbow with a minimum of 3 m (10 ft) of flexible conduit placed parallel to the deck, or a similar configuration approved by the Engineer.”

Add the following after the second sentence of the ninth paragraph of Article 503.07 of the Standard Specifications:

“When consolidating concrete in bridge decks, the vibrator shall be vertically inserted into the concrete for 3 - 5 seconds, or for a period of time determined by the Engineer.”

Add the following after the first paragraph of Article 503.17 of the Standard Specifications:

“For the bridge deck pour, fogging equipment shall be in operation unless the evaporation rate is less than 0.5 kg/sq m/hour (0.1 lb/sq ft/hour) and the Engineer gives permission to turn off the equipment. The evaporation rate shall be determined according to the figure in the Portland Cement Association’s publication, “Design and Control of Concrete Mixtures” (refer to the section on plastic shrinkage cracking). The Contractor shall provide temperature, relative humidity, and wind speed measuring equipment.

The fogging equipment shall be adjusted to adequately cover the entire width of the pour.

If there is a delay of more than ten minutes during bridge deck placement, wet burlap shall be used to protect the concrete until operations resume.

Concrete placement operations shall be coordinated to limit the distance between the point of concrete placement and concrete covered with cotton mats for curing. The distance shall not exceed 10.5 m (35 ft). For bridge deck widths greater than 15 m (50 ft), the distance shall not exceed 7.5 m (25 ft).”

Add the following to the end of the first paragraph of Article 503.17(b) of the Standard Specifications to read:

“The concrete in these areas shall be struck off during the deck pour and excess material from the finishing machine shall not be incorporated.”

In the Coarse Aggregate Gradation table of Article 1004.01(c) of the Standard Specifications revise the percent passing the 12.5 mm (1/2 in.) sieve for gradation CA 7 to "45±15^{4/ 9/11}".

In the Coarse Aggregate Gradation table of Article 1004.01(c) of the Standard Specifications revise the percent passing the 12.5 mm (1/2 in.) sieve for gradation CA 11 to "45±15^{6/ 9/11}".

Add the following to the Coarse Aggregate Gradation table of the Standard Specifications:

"9/ When Class BD concrete is to be pumped, the coarse aggregate gradation shall have a minimum of 45 percent passing the 12.5 mm (1/2 in.) sieve. The Contractor may combine two or more coarse aggregate sizes, consisting of CA-7, CA-11, CA-13, CA-14, and CA-16, provided a CA-7 or CA-11 is included in the blend."

Revise Article 1020.05(d) of the Standard Specifications to read:

"(d)Class BD Concrete. The maximum mortar factor shall be 0.86."

Add the following to Article 1103.17 of the Standard Specifications:

"(k) Fogging Equipment. Fogging equipment shall consist of a mechanically operated, pressurized system using a triple headed nozzle or an equivalent nozzle. The fogging nozzle shall be capable of producing a fine fog mist that will increase the relative humidity of the air just above the fresh concrete surface without accumulating any water on the concrete. The fogging equipment shall be mounted behind the roller and pan of finishing machine or on a separate foot bridge. Controls shall be designed to vary the volume of water flow, be easily accessible and immediately shut off the water when in the off position. Hand held fogging equipment will not be allowed."

80066

BUTT JOINTS (BDE)

Effective: April 1, 2004

Revise Article 406.18 of the Standard Specifications to read:

"406.18 Butt Joints. Butt joints shall be constructed according to the details shown on the plans. The surface removal shall be performed according to Section 440. Construction of butt joints shall not begin prior to beginning general operations on the project.

When butt joints are to be constructed under traffic, temporary ramps shall be constructed and maintained at both the upstream and downstream ends of the surface removal areas immediately upon completion of the surface removal operation. The temporary ramps shall be constructed by the following methods.

(a) Temporary Bituminous Ramps. Temporary bituminous ramps shall have a minimum taper rate of 1:40 (V:H). The bituminous material used shall meet the approval of the Engineer. Cold-milled bituminous tailings will not be acceptable.

- (b) Temporary Rubber Ramps. Temporary rubber ramps shall only be used on roadways with permanent posted speeds of 45 mph or less. The ramps shall have a minimum taper rate of 1:30 (V:H). The leading edge of the rubber ramp shall have a maximum thickness of 6 mm (1/4 in.) and the trailing edge shall match the height of the adjacent pavement \pm 6 mm (1/4 in.).

The rubber material shall conform to the following:

| Property | Test Method | Requirement |
|-----------------------------|-------------|-------------------------|
| Durometer Hardness, Shore A | ASTM D 2240 | 80 \pm 10 |
| Tensile Strength | ASTM D 412 | 5500 kPa (800 psi) min. |
| Elongation, percent | ASTM D 412 | 100 min. |
| Specific Gravity | ASTM D 297 | 1.1-1.3 |
| Brittleness | ASTM D 746 | -40 °C (-40 °F) |

The rubber ramps shall be installed according to the manufacturer's specifications and fastened with the anchors provided. Rubber ramps that fail to stay in place or create a traffic hazard shall be replaced immediately with temporary bituminous ramps at the Contractor's expense.

The temporary ramps shall be removed just prior to placing the proposed surface course. If work is suspended for the winter season prior to completion of surface course construction, precut butt joints shall be filled to the elevation of the existing pavement surface with compacted bituminous concrete surface course or binder course."

80118

CHAIR SUPPORTS (BDE)

Effective: November 1, 2002
Revised: November 2, 2002

Revise the fourth and fifth paragraphs of Article 421.06(a) to read:

“Pavement reinforcement shall be supported on steel chair supports at the depth below the pavement surface as indicated on the plans. The Contractor shall submit prints of shop drawings showing details of chair supports and their spacing to the Engineer and obtain the Engineer’s approval before any fabrication is begun.

The chair supports shall possess the necessary rigidity and be spaced at intervals close enough to hold the reinforcement at the proper depth and position. However, the spacing of the chair supports shall not exceed 900 mm (3 ft) transversely or 1.2 m (4 ft) longitudinally. The chair supports shall be fabricated with sand plates.”

80077

COARSE AGGREGATE FOR TRENCH BACKFILL, BACKFILL AND BEDDING (BDE)

Effective: April 1, 2001
Revised: November 1, 2003

Revise Article 208.02 of the Standard Specifications to read:

“208.02 Materials. Materials shall be according to the following Articles of Section 1000 – Materials:

- (a) Fine Aggregate (Note 1)..... 1003.04
- (b) Coarse Aggregate (Note 2)..... 1004.06

Note 1. The fine aggregate shall be moist to the satisfaction of the Engineer.

Note 2. The coarse aggregate shall be wet to the satisfaction of the Engineer.”

Revise the first sentence of the second paragraph of subparagraph (b) in Article 208.03 of the Standard Specifications to read:

"Any material meeting the requirements of Articles 1003.04 or 1004.06 which has been excavated from the trenches shall be used for backfilling the trenches."

Add the following to the end of Article 542.02 of the Standard Specifications:

- “(bb) Fine Aggregate (Note 1)..... 1003.04
- (cc) Coarse Aggregate (Note 2)..... 1004.06

Note 1. The fine aggregate shall be moist to the satisfaction of the Engineer.

Note 2. The coarse aggregate shall be wet to the satisfaction of the Engineer.”

Revise the first and second sentences of the second paragraph of subparagraph (a) of Article 542.04 of the Standard Specifications to read:

"The unstable and unsuitable material shall be removed to a depth determined by the Engineer and for a width of one diameter (or equivalent diameter) of the pipe on each side of the pipe culvert, and replaced with aggregate. Rock shall be removed to an elevation 300 mm (1 ft) lower than the bottom of the pipe or to a depth equal to 40 mm/m (1/2 in./ft) of ultimate fill height over the top of the pipe culvert, whichever is the greater depth, and for a width as specified in (b) below, and replaced with aggregate."

Revise the second paragraph of subparagraph (c) of Article 542.04 of the Standard Specifications to read:

"Well compacted aggregate, at least 100 mm (4 in.) in depth below the pipe culvert, shall be placed the entire width of the trench and for the length of the pipe culvert, except well compacted impervious material shall be used for the outer 1 m (3 ft) at each end of the pipe. When the trench has been widened by the removal and replacement of unstable or unsuitable material, the foundation material shall be placed for a width not less than the above specified widths on each side of the pipe. The aggregate and impervious material shall be approved by the Engineer and shall be compacted to the Engineer's satisfaction by mechanical means."

Revise subparagraph (e) of Article 542.04 of the Standard Specifications to read:

"(e) Backfilling. As soon as the condition of the pipe culvert will permit, the entire width of the trench shall be backfilled with aggregate to a height of at least the elevation of the center of the pipe. The aggregate shall be placed longitudinally along the pipe culvert, except at the outer 1 m (3 ft) at each end of the culvert which shall be backfilled with impervious material. The elevation of the backfill material on each side of the pipe shall be the same. The space under the pipe shall be completely filled. The aggregate and impervious material shall be placed in 200 mm (8 in.) layers, loose measurement. When using PVC, PE, or corrugated metal pipe, the aggregate shall be continued to a height of at least 300 mm (1 ft) above the top of the pipe and compacted to a minimum of 85 percent of standard lab density by mechanical means. When reinforced concrete pipes are used and the trench is within 600 mm (2 ft) of the pavement structure, the backfill shall be compacted to a minimum of 85 percent of standard lab density by mechanical means.

When using PVC, PE, or corrugated metal pipe a minimum of 300 mm (1 ft) of cover from the top of the pipe to the top of the subgrade will be required.

The installed pipe and its embedment shall not be disturbed when using movable trench boxes and shields, sheet pile, or other trench protection.

The remainder of the trench shall be backfilled with select material, from excavation or borrow, free from large or frozen lumps, clods or rock, meeting the approval of the Engineer. The material shall be placed in layers not exceeding 200 mm (8 in.) in depth, loose measurement and compacted to 95 percent of the standard laboratory density. Compaction shall be obtained by use of mechanical tampers or with approved vibratory compactors. Before compacting, each layer shall be wetted or dried to bring the

moisture content within the limits of 80 to 110 percent of optimum moisture content determined according to AASHTO T 99 (Method C). All backfill material shall be deposited in the trench or excavation in such a manner as not to damage the culvert. The filling of the trench shall be carried on simultaneously on both sides of the pipe. The Contractor may, at his/her expense, backfill the entire trench with aggregate in lieu of select material. The aggregate shall be compacted to the satisfaction of the Engineer by mechanical means.

The backfill material for all trenches and excavations made in the subgrade of the proposed improvement, and for all trenches outside of the subgrade where the inner edge of the trench is within 600 mm (2 ft) of the edge of the proposed pavement, curb, gutter, curb and gutter, stabilized shoulder, or sidewalk shall be according to Section 208. The trench backfill material shall be compacted to a minimum of 85 percent of standard lab density by mechanical means.

The Contractor may, at his/her expense, backfill the entire trench with controlled low strength material meeting the approval of the Engineer.

When the trench has been widened for the removal and replacement of unstable or unsuitable material, the backfilling with aggregate and impervious material, will be required for a width of at least the specified widths on each side of the pipe. The remaining width of each layer may be backfilled with select material. Each 200 mm (8 in.) layer for the entire trench width shall be completed before beginning the placement of the next layer."

Revise subparagraph (b) of Article 542.05 of the Standard Specifications to read:

"(b) Embankment. Embankment extending to an elevation of 300 mm (1 ft) over the top of the pipe shall be constructed according to Article 542.04(f), except the material up to the elevation of the center of the pipe and extending to a width of at least 450 mm (18 in.) on each side of the pipe, exclusive of the outer 1 m (3 ft) at each end of the pipe, shall consist of aggregate. At the outer 1 m (3 ft) at each end of the culvert, impervious material shall be used."

Add the following paragraph after the first paragraph of Article 542.10 of the Standard Specifications:

"Trench backfill will be measured for payment according to Article 208.03."

Add the following paragraph after the third paragraph of Article 542.11 of the Standard Specifications:

"Trench backfill will be paid for according to Article 208.04."

Add the following to of Article 550.02 of the Standard Specifications:

"(m) Fine Aggregate (Note 2)..... 1003.04
(n) Coarse Aggregate (Note 3)..... 1004.06

Note 2. The fine aggregate shall be moist to the satisfaction of the Engineer.

Note 3. The coarse aggregate shall be wet to the satisfaction of the Engineer.”

Revise the first two sentences of the third paragraph of Article 550.04 of the Standard Specifications to read:

"Well compacted, aggregate bedding material at least 100 mm (4 in.) in depth below the pipe, shall be placed for the entire width of the trench and length of the pipe. The aggregate shall be compacted to the satisfaction of the Engineer by mechanical means."

Revise Article 550.07 of the Standard Specifications to read:

"550.07 Backfilling. As soon as the condition of the pipe will permit, the entire width of the trench shall be backfilled with aggregate to a height of at least the elevation of the center of the pipe. The aggregate shall be placed longitudinally along the pipe. The elevation of the backfill material on each side of the pipe shall be the same. The space under the pipe shall be completely filled. The aggregate backfill material shall be placed in 200 mm (8 in.) layers, loose measurement and compacted to the satisfaction of the Engineer by mechanical means. When using PVC pipe, the aggregate shall be continued to a height of at least 300 mm (12 in.) above the top of the pipe.

The installed pipe and its embedment shall not be disturbed when using movable trench boxes and shields, sheet pile, or other trench protection.

The remainder of the trench and excavation shall be backfilled to the natural line or finished surface as rapidly as the condition of the sewer will permit. The backfill material shall consist of suitable excavated material from the trench or of trench backfill as herein specified. All backfill material shall be deposited in the trench or excavation in such a manner as not to damage the sewer and shall be compacted to the satisfaction of the Engineer by mechanical means. The filling of the trench shall be carried on simultaneously on both sides of the pipe.

The backfill material for trenches and excavation made in the subgrade of the proposed improvement, and for all trenches outside of the subgrade where the inner edge of the trench is within 600 mm (2 ft) of the edge of the proposed pavement, curb, gutter, curb and gutter, stabilized shoulder or sidewalk shall be according to Section 208. The backfill material shall be compacted to 85 percent of standard lab density by mechanical means.

All backfill material up to a height of 300 mm (1 ft) above the pipe shall be deposited in uniform layers not exceeding 200 mm (8 in.) thick, loose measurement. The material in each layer shall be compacted to the satisfaction of the Engineer by mechanical means. The backfilling above this height shall be done according to Method 1, 2 or 3 as described below, with the following exceptions.

When trench backfill or excavated material meeting the requirements of Section 208 is required above the first 300 mm (1 ft) of the pipe, the layers shall not exceed 200 mm (8 in.). Gradations CA6 or CA10 shall not be used with Method 2 or Method 3.

Method 1. The material shall be deposited in uniform layers not exceeding 300 mm (1 ft) thick, loose measurement, and each layer shall be compacted to the satisfaction of the Engineer by mechanical means.

Method 2. The material shall be deposited in uniform layers not exceeding 300 mm (1 ft) thick, loose measurement, and each layer shall be either inundated or deposited in water.

Method 3. The trench shall be backfilled with loose material, and settlement secured by introducing water through holes jetted into the backfill to a point approximately 600 mm (2 ft) above the top of the pipe. The holes shall be spaced as directed by the Engineer but shall be no farther than 2 m (6 ft) apart.

The water shall be injected at a pressure just sufficient to sink the holes at a moderate rate of speed. The pressure shall be such that the water will not cut cavities in the backfill material nor overflow the surface. If water does overflow the surface, it shall be drained into the jetted holes by means of shallow trenches.

Water shall be injected as long as it will be absorbed by the backfill material and until samples taken from test holes in the trench show a satisfactory moisture content. The Contractor shall bore the test holes not more than 15 m (50 ft) apart and at such other locations in the trench designated by the Engineer. As soon as the watersoaking has been completed, all holes shall be filled with soil and compacted by ramming with a tool approved by the Engineer.

Backfill material which has been watersoaked shall be allowed to settle and dry for at least 10 days before any surface course or pavement is constructed on it. The length of time may be altered, if deemed desirable, by the Engineer. Where the inner edge of the trench is within 600 mm (2 ft) of the edge of the proposed pavement, curb, gutter, curb and gutter, stabilized shoulder or sidewalk, the provisions of this paragraph shall also apply.

At the end of the settling and drying period, the crusted top of the backfill material shall be scarified and, if necessary, sufficient backfill material added, as specified in Method 1, to complete the backfilling operations.

The method used for backfilling and compacting the backfill material shall be the choice of the Contractor. If the method used does not produce results satisfactory to the Engineer, the Contractor will be required to alter or change the method being used so the resultant backfill will be satisfactory to the Engineer. Should the Contractor be required to alter or change the method being used, no additional compensation will be allowed for altering or changing the method.

The Contractor may, at his/her expense, backfill the entire trench with controlled low strength material meeting the approval of the Engineer.

When sheeting and bracing have been used, sufficient bracing shall be left across the trench as the backfilling progresses to hold the sides firmly in place without caving or settlement. This bracing shall be removed as soon as practicable. Any depressions which may develop within the area involved in the construction operation due to settlement of the backfilling material shall be filled in a manner approved by the Engineer.

When the Contractor constructs the trench with sloped or benched sides according to Article 550.04, backfilling for the full width of the excavation shall be as specified, except no additional compensation will be allowed for trench backfill material required outside the vertical limits of the specified trench width.

Whenever excavation is made for installing sewer pipe across earth shoulders or private property, the topsoil disturbed by excavation operations shall be replaced as nearly as possible in its original position, and the whole area involved in the construction operations shall be left in a neat and presentable condition.

When using any PVC pipe, the pipe shall be backfilled with aggregate to 300 mm (1 ft) over the top of the pipe and compacted to a minimum of 85 percent of standard lab density by mechanical means.

When reinforced concrete pipes are used and the trench is within 600 mm (2 ft) of the pavement structure, the backfill shall be compacted to a minimum of 85 percent of standard lab density by mechanical means.

Deflection Testing for Storm Sewers. All PVC storm sewers will be tested for deflection not less than 30 days after the pipe is installed and the backfill compacted.

For PVC storm sewers with diameters 600 mm (24 in.) or smaller, a mandrel drag shall be used for deflection testing. For PVC storm sewers with diameters over 600 mm (24 in.), deflection measurements other than by a mandrel drag shall be used.

Where the mandrel is used, the mandrel shall be furnished by the Contractor and pulled by hand through the pipeline with a suitable rope or cable connected to each end. Winching or other means of forcing the deflection gauge through the pipeline will not be allowed.

The mandrel shall be of a shape similar to that of a true circle enabling the gauge to pass through a satisfactory pipeline with little or no resistance. The mandrel shall be of a design to prevent it from tipping from side to side and to prevent debris build-up from occurring between the channels of the adjacent fins or legs during operation. Each end of the core of the mandrel shall have fasteners to which the pulling cables can be attached. The mandrel shall have 9, various sized fins or legs of appropriate dimension for various diameter pipes. Each fin or leg shall have a permanent marking that states its designated pipe size and percent of deflection allowable.

The outside diameter of the mandrel shall be 95 percent of the base inside diameter, where the base inside diameter is:

For all PVC pipe (as defined using ASTM D 3034 methodology):

If the pipe is found to have a deflection greater than specified, that pipe section shall be removed, replaced, and retested."

Revise subparagraph (c) of Article 1003.04 of the Standard Specifications to read:

"(c) Gradation. The fine aggregate gradation shall be as follows:

| | |
|-------------------------------------------------------------------------------------------------|------------------------------|
| Backfill, bedding and trench backfill for pipe culverts and storm sewers | FA 1, FA 2, FA 6, or FA 21 |
| Porous granular embankment and backfill, french drains, and sand backfill for underdrains | FA 1, FA 2, or FA20 (Note 1) |

Note 1: For FA 1, FA 2, and FA 20 the percent passing the 75 µm (No. 200) sieve shall be 2 ± 2."

Revise the title of Article 1004.06 of the Standard Specifications to read:

"Coarse Aggregate for Blotter, Embankment, Backfill, Trench Backfill, French Drains, and Bedding."

Add the following to the end of subparagraph (c) of Article 1004.06 of the Standard Specifications:

| | |
|----------------------------------------------------------------------------------|-------------------------|
| "Backfill, bedding, and trench backfill for pipe culverts and storm sewers | CA 6, CA 10, and CA 18" |
|----------------------------------------------------------------------------------|-------------------------|

80051

CONCRETE ADMIXTURES (BDE)

Effective: January 1, 2003

Revised: July 1, 2004

Revise Article 1020.05(b) of the Standard Specifications to read:

"(b) Admixtures. Except as specified, the use of admixtures to increase the workability or to accelerate the hardening of the concrete will be permitted only when approved in writing by the Engineer. The Department will maintain an Approved List of Concrete Admixtures. When the Department permits the use of a calcium chloride accelerator, it shall be according to Article 442.02, Note 5.

When the atmosphere or concrete temperature is 18 °C (65 °F) or higher, a retarding admixture meeting the requirements of Article 1021.03 shall be used in the Class BD Concrete and portland cement concrete bridge deck overlays. The amount of retarding admixture to be used will be determined by the Engineer. The proportions of the ingredients of the concrete shall be the same as without the retarding admixture except that the amount of mixing water shall be reduced, as may be necessary, in order to maintain the consistency of the concrete as required. In addition, a high range water-reducing admixture shall be used in Class BD Concrete. The amount of high range water-reducing admixture will be determined by the Engineer. At the option of the Contractor, a water-reducing admixture may be used. Type I cement shall be used.

For Class PC and PS Concrete, a retarding admixture may be added to the concrete mixture when the concrete temperature is 18 °C (65 °F) or higher. Other admixtures may be used when approved by the Engineer, or if specified by the contract. If an accelerating admixture is permitted by the Engineer, it shall be the non-chloride type.

At the Contractor's option, admixtures in addition to an air-entraining admixture may be used for Class PP-1 concrete. The accelerator shall be the non-chloride type. If a water-reducing or retarding admixture is used, the cement factor may be reduced a maximum 18 kg/cu m (0.30 hundredweight/cu yd). If a high range water-reducing admixture is used, the cement factor may be reduced a maximum 36 kg/cu m (0.60 hundredweight/cu yd). Cement factor reductions shall not be cumulative when using multiple admixtures. An accelerator shall always be added prior to a high range water-reducing admixture, if both are used.

If Class C fly ash or ground granulated blast-furnace slag is used in Class PP-1 concrete, a water-reducing or high range water-reducing admixture shall be used. However, the cement factor shall not be reduced if a water-reducing, retarding, or high range water-reducing admixture is used. In addition, an accelerator shall not be used.

For Class PP-2 or PP-3 concrete, a non-chloride accelerator followed by a high range water-reducing admixture shall be used, in addition to the air-entraining admixture. For Class PP-3 concrete, the non-chloride accelerator shall be calcium nitrite.

For Class PP-2 or PP-3 concrete, the Contractor has the option to use a water-reducing admixture. A retarding admixture shall not be used unless approved by the Engineer. A water-reducing, retarding, or high range water-reducing admixture shall not be used to reduce the cement factor.

When the air temperature is less than 13 °C (55 °F) for Class PP-1 or PP-2 concrete, the non-chloride accelerator shall be calcium nitrite.

For Class PP-4 concrete, a high range water-reducing admixture shall be used in addition to the air-entraining admixture. The Contractor has the option to use a water-reducing admixture. An accelerator shall not be used. For stationary or truck mixed concrete, a retarding admixture shall be used to allow for haul time. The Contractor has the option to use a mobile portland cement concrete plant according to Article 1103.04, but a retarding admixture shall not be used unless approved by the Engineer. A water-reducing, retarding, or high range water-reducing admixture shall not be used to reduce the cement factor.

If the Department specifies a calcium chloride accelerator for Class PP-1 concrete, the maximum chloride dosage shall be 1.0 L (1.0 quart) of solution per 45 kg (100 lb) of cement. The dosage may be increased to a maximum 2.0 L (2.0 quarts) per 45 kg (100 lb) of cement if approved by the Engineer. If the Department specifies a calcium chloride accelerator for Class PP-2 concrete, the maximum chloride dosage shall be 1.3 L (1.3 quarts) of solution per 45 kg (100 lb) of cement. The dosage may be increased to a maximum 2.6 L (2.6 quarts) per 45 kg (100 lb) of cement if approved by the Engineer.

For Class PV, MS, SI, RR, SC and SH concrete, at the option of the Contractor, or when specified by the Engineer, a water-reducing admixture or a retarding admixture may be used. The amount of water-reducing admixture or retarding admixture permitted will be determined by the Engineer. The air-entraining admixture and other admixtures shall be added to the concrete separately, and shall be permitted to intermingle only after they have separately entered the concrete batch. The sequence, method and equipment for adding the admixtures shall be approved by the Engineer. The water-reducing admixture shall not delay the initial set of the concrete by more than one hour. Type I cement shall be used.

When a water-reducing admixture is added, a cement factor reduction of up to 18 kg/cu m (0.30 hundredweight/cu yd), from the concrete designed for a specific slump without the admixture, will be permitted for Class PV, MS, SI, RR, SC and SH concrete. When an approved high range water-reducing admixture is used, a cement factor reduction of up to 36 kg/cu m (0.60 hundredweight/cu yd), from a specific water cement/ratio without the admixture, will be permitted based on a 14 percent minimum water reduction. This is applicable to Class PV, MS, SI, RR, SC and SH concrete. A cement factor below 320 kg/cu m (5.35 hundredweight/cu yd) will not be permitted for Class PV, MS, SI, RR, SC and SH concrete. A cement factor reduction will not be allowed for concrete placed underwater. Cement factor reductions shall not be cumulative when using multiple admixtures.

For use of admixtures to control concrete temperature, refer to Articles 1020.14(a) and 1020.14(b).

The maximum slumps given in Table 1 may be increased to 175 mm (7 in.) when a high range water-reducing admixture is used for all classes of concrete except Class PV and PP.”

Revise Section 1021 of the Standard Specifications to read:

“SECTION 1021. CONCRETE ADMIXTURES”

1021.01 General. Admixtures shall be furnished in liquid form ready for use. The admixtures may be delivered in the manufacturer's original containers, bulk tank trucks or such containers or tanks as are acceptable to the Engineer. Delivery shall be accompanied by a ticket which clearly identifies the manufacturer and trade name of the material. Containers shall be readily identifiable to the satisfaction of the Engineer as to manufacturer and trade name of the material they contain.

Prior to inclusion of a product on the Department's Approved List of Concrete Admixtures, the manufacturer shall submit a report prepared by an independent laboratory accredited by the AASHTO Accreditation Program. The report shall show the results of physical tests conducted no more than five years prior to the time of submittal, according to applicable specifications.

Tests shall be conducted using materials and methods specified on a "test" concrete and a "reference" concrete, together with a certification that no changes have been made in the formulation of the material since the performance of the tests. Per the manufacturer's option, the cement content for all required tests shall either be according to applicable specifications or 335 kg/cu m (5.65 cwt/cu yd). Compressive strength test results for six months and one year will not be required.

In addition to the report, the manufacturer shall submit AASHTO T 197 water content and set time test results on the standard cement used by the Department. The test and reference concrete mixture shall contain a cement content of 335 kg/cu m (5.65 cwt/cu yd). The manufacturer may select their lab or an independent lab to perform this testing. The laboratory is not required to be accredited by the AASHTO Accreditation Program.

Prior to the approval of an admixture, the Engineer may conduct all or part of the applicable tests on a sample that is representative of the material to be furnished. The test and reference concrete mixtures tested by the Engineer will contain a cement content of 335 kg/cu m (5.65 cwt/cu yd). For freeze-thaw testing, the Department will perform the test according to Illinois Modified AASHTO T 161, Procedure B.

The manufacturer shall include in the submittal the following information according to ASTM C 494; the average and manufacturing range of specific gravity, the average and manufacturing range of solids in the solution, and the average and manufacturing range of pH. The submittal shall also include an infrared spectrophotometer trace no more than five years old.

When test results are more than seven years old, the manufacturer shall re-submit the infrared spectrophotometer trace and the report prepared by an independent laboratory accredited by the AASHTO Accreditation Program.

All admixtures, except chloride-based accelerators, shall contain no more than 0.3 percent chloride by mass (weight).

1021.02 Air-Entraining Admixtures. Air-entraining admixtures shall conform to the requirements of AASHTO M 154.

If the manufacturer certifies that the air-entraining admixture is an aqueous solution of Vinsol resin that has been neutralized with sodium hydroxide (caustic soda), testing for compliance with the requirements may be waived by the Engineer. In the certification, the manufacturer shall show complete information with respect to the formulation of the solution, including the number of parts of Vinsol resin to each part of sodium hydroxide. Before the approval of its use is granted, the Engineer will test the solution for its air-entraining quality in comparison with a solution prepared and kept for that purpose.

1021.03 Retarding and Water-Reducing Admixtures. The admixture shall comply with the following requirements:

- (a) The retarding admixture shall comply with the requirements of AASHTO M 194, Type B (retarding) or Type D (water-reducing and retarding).
- (b) The water-reducing admixture shall comply with the requirements of AASHTO M 194, Type A.
- (c) The high range water-reducing admixture shall comply with the requirements of AASHTO M 194, Type F (high range water-reducing) or Type G (high range water-reducing and retarding).

When a Type F or Type G high range water-reducing admixture is used, water-cement ratios shall be a minimum of 0.32.

Type F or Type G admixtures may be used, subject to the following restrictions:

For Class MS, SI, RR, SC and SH concrete, the water-cement ratio shall be a maximum of 0.44.

The Type F or Type G admixture shall be added at the jobsite unless otherwise directed by the Engineer. The initial slump shall be a minimum of 40 mm (1 1/2 in.) prior to addition of the Type F or Type G admixture, except as approved by the Engineer.

When a Type F or Type G admixture is used, retempering with water or with a Type G admixture will not be allowed. An additional dosage of a Type F admixture, not to exceed 40 percent of the original dosage, may be used to retemper concrete once, provided set time is not unduly affected. A second retempering with a Type F admixture may be used for all classes of concrete except Class PP and SC, provided that the dosage does not exceed the dosage used for the first retempering, and provided that the set time is not unduly affected. No further retempering will be allowed.

Air tests shall be performed after the addition of the Type F or Type G admixture.

1021.04 Set Accelerating Admixtures. The admixture shall comply with the requirements of AASHTO M 194, Type C (accelerating) or Type E (water reducing and accelerating)”

80094

CONCRETE BARRIER (BDE)

Effective: January 1, 2004

Revised: April 2, 2004

Revise Section 637 of the Standard Specifications to read:

“SECTION 637. CONCRETE BARRIER

637.01 Description. This work shall consist of constructing a concrete barrier and its base.

637.02 Materials. Materials for concrete barrier and concrete base shall conform to the requirements of the following Articles of Section 1000 - Materials:

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

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

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

637.03 Equipment. Equipment for concrete barrier shall conform to the requirements of the following Articles of Section 1100 - Equipment:

| Item | Article/Section |
|------------------------------------|-----------------|
| (a) Hand Vibrator | 1103.17(a) |
| (b) 3 m (10 ft) Straightedge | 1103.17(h) |

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

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

CONSTRUCTION REQUIREMENTS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Barrier transitions will be measured for payment in meters (feet) in place, along the centerline of the transition.

Protective coat will be measured for payment according to Article 420.22(b).

637.12 Basis of Payment. This work will be paid for at the contract unit price per meter (foot) for BARRIER BASE; CONCRETE BARRIER, DOUBLE FACE, of the height specified; CONCRETE BARRIER, SINGLE FACE, of the height specified; and CONCRETE BARRIER TRANSITION.

Protective coat will be paid for according to Article 420.23.”

80112

CORRUGATED METAL PIPE CULVERTS (BDE)

Effective: August 1, 2003

| Revised: July 1, 2004

Revise the fourth paragraph of Article 542.04(d) of the Standard Specifications to read:

“When corrugated steel or aluminum alloy culvert pipe (including bituminous coated steel or aluminum and pre-coated steel) is used, the pipe shall be placed such that the longitudinal lap is placed at the sides and separate sections of pipe shall be joined with a hugger-type band. When the pipes are fabricated with a smooth sleeve-type coupler, the gasket shall meet the requirements of Article 1006.01.”

Add the following paragraph after the first paragraph of Article 1006.01 of the Standard Specifications:

“Round pipes 1200 mm (48 in.) in diameter and smaller may be fabricated with a smooth sleeve-type coupler. Gasket material on the smooth sleeve-type coupler shall be polyisoprene or equal with a durometer hardness of 45 ± 5 (ASTM D 2240, Shore A). Pipe used with smooth sleeve-type couplers shall contain a homing mark that indicates when the joint is tight. The homing mark shall consist of a painted stripe around the circumference of the male end of the pipe.”

| Delete the last sentence of the first paragraph of Article 1006.01(a) of the Standard Specifications.

Add the following paragraph after the first paragraph of Article 1006.03 of the Standard Specifications:

“Round pipes 1200 mm (48 in.) in diameter and smaller may be fabricated with a smooth sleeve-type coupler. Gasket material on the smooth sleeve-type coupler shall be polyisoprene or equal with a durometer hardness of 45 ± 5 (ASTM D 2240, Shore A). Pipe used with smooth sleeve-type couplers shall contain a homing mark that indicates when the joint is tight. The homing mark shall consist of a painted stripe around the circumference of the male end of the pipe.”

80102

CURB RAMPS FOR SIDEWALK (BDE)

Effective: January 1, 2004

Description. This work shall consist of constructing sidewalk curb ramps with detectable warnings in compliance with the Americans with Disabilities Act, Accessibility Guidelines (ADAAG). Work shall be according to Section 424 of the Standard Specifications except as modified herein.

The detectable warnings shall consist of an area of truncated domes that provide both visual and tactile cues to pedestrians who are about to enter into traffic. The warning area shall begin 150 mm (6 in.) from the back of the curb and continue 600 mm (2 ft) in the direction of pedestrian travel for the entire width of the walking surface.

The detectable warnings shall also present a contrast in color from the adjacent sidewalk. This shall be accomplished by constructing the warning area, plus the 150 mm (6 in.) area between the warning area and the back of curb, out of concrete that is integrally colored red. However if the sidewalk is brick or of some dark color, the contrast requirement shall be achieved with normal (grey), Class SI concrete.

Materials. Materials for the detectable warning area of the curb ramps shall meet the following requirements.

- a) Integrally Colored Concrete. Integrally colored concrete shall be according to Section 1020 of the Standard Specification for Class SI concrete except as follows.

- | | |
|--------------------|-------------------------------------------------------------------------------------------------------------------------|
| Article 1020.04 | The allowable water/cement ratio range shall be 0.40 minimum to 0.44 maximum. |
| Article 1020.04 | The allowable slump range shall be 75 mm (3 in.) minimum to 125 mm (5 in.) maximum. |
| Article 1020.04 | The allowable coarse aggregate gradations shall be CA 11, CA 13, CA 14, and CA 16. |
| Article 1020.05(b) | A calcium chloride accelerating admixture shall not be used. |
| Article 1020.05(b) | The cement factor shall not be reduced if a water-reducing or high range water-reducing admixture is used. |
| Article 1020.05(c) | Fly ash shall not be used. |
| Article 1020.05(k) | Ground granulated blast-furnace slag shall not be used. |
| Article 1020.11 | Pigment for integrally colored concrete shall be added to the concrete and mixed per the Manufacturer's recommendation. |
| Article 1020.13 | The curing method shall be Type I membrane curing. |

Article 1020.13. The protection method shall be according to Article 1020.13(e)(1) and the protection period shall be 96 hours. No material, including the insulating material, shall be placed in direct contact with the concrete surface.

(b) Pigment for Integrally Colored Concrete. The pigment shall meet the requirements of ASTM C 979, match color number 30166 of Federal Standard 595, and be on the Department's Approved List of Pigments for Integrally Colored Concrete.

(c) Release Agent for Concrete Stamping Tools. The release agent shall be according to the stamping tool manufacturer's recommendations and the following: it shall be a clear liquid that will evaporate, it shall not harm the concrete, and it shall allow the application of Type I membrane curing.

Equipment. Equipment for the detectable warning area of the curb ramps shall meet the following requirements.

(a) Concrete Stamps. Sufficient numbers and sizes of stamps shall be furnished to cover the various widths of the curb ramps. The stamps shall have an air opening at the top of each truncated dome recess; and shall be rigid enough to evenly distribute the force exerted during tamping.

(b) Tamper. The tamper shall be according to the concrete stamp manufacturer's recommendations.

CONSTRUCTION REQUIREMENTS

Stamping. The concrete shall be placed and finished according to Article 424.06 except the area to be stamped shall not be brushed. When the bleed water has been absorbed, stamping shall begin. The entire width of the curb ramp shall be stamped at the same time. A single stamp or a combination of stamps may be used.

Prior to placing the stamp on the concrete, the stamp shall be coated with the release agent. When recommended by the manufacturer, the release agent shall also be applied to the concrete surface. Once the stamp has been placed on the ramp, it shall remain down until the stamping is complete.

The entire area of the stamp shall be tamped with a short, slow, repetitive action such that the concrete is caused to move up and into the dome recesses of the stamp. Tamping shall continue until mortar has come through the air openings in the stamp. Stepping or walking on the stamp will not be allowed. The base elevation of the domes shall be even with the adjacent sidewalk surface; the stamp shall not be forced down into the concrete.

When stamping is complete, the stamp shall be removed and the concrete cured.

Upon completion of curing, or after cold weather protection if required, the protruding mortar tip on the top of each dome shall be removed and the dome rubbed or ground smooth.

CURING AND PROTECTION OF CONCRETE CONSTRUCTION (BDE)

Effective: January 1, 2004

Revise the second and third sentences of the eleventh paragraph of Article 503.06 of the Standard Specifications to read:

“Forms on substructure units shall remain in place at least 24 hours. The method of form removal shall not result in damage to the concrete.”

Delete the twentieth paragraph of Article 503.22 of the Standard Specifications.

Revise the “Unit Price Adjustments” table of Article 503.22 of the Standard Specifications to read:

| “UNIT PRICE ADJUSTMENTS | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Type of Construction | Percent Adjustment in Unit Price |
| For concrete in substructures, culverts (having a waterway opening of more than 1 sq m (10 sq ft)), pump houses, and retaining walls (except concrete pilings, footings and foundation seals): | |
| When protected by: | |
| Protection Method II | 115% |
| Protection Method I | 110% |
| For concrete in superstructures: | |
| When protected by: | |
| Protection Method II | 123% |
| Protection Method I | 115% |
| For concrete in footings: | |
| When protected by: | |
| Protection Method I, II or III | 107% |
| For concrete in slope walls: | |
| When protected by: | |
| Protection Method I | 107%” |

Delete the fourth paragraph of Article 504.05(a) of the Standard Specifications.

Revise the second and third sentences of the fifth paragraph of Article 504.05(a) of the Standard Specifications to read:

“All test specimens shall be cured with the units according to Article 1020.13.”

Revise the first paragraph of Article 504.06(c)(6) of the Standard Specifications to read:

“Curing and Low Air Temperature Protection. The curing and protection for precast, prestressed concrete members shall be according to Article 1020.13 and this Article.”

Revise the first sentence of the second paragraph of Article 504.06(c)(6) of the Standard Specifications to read:

“For curing, air vents shall be in place, and shall be so arranged that no water can enter the void tubes during the curing of the members.”

Revise the first sentence of the third paragraph of Article 504.06(c)(6) of the Standard Specifications to read:

“As soon as each member is finished, the concrete shall be covered with curing material according to Article 1020.13.”

Revise the eighth paragraph of Article 504.06(c)(6) of the Standard Specifications to read:

“The prestressing force shall not be transferred to any member before the concrete has attained the compressive strength of 28,000 kPa (4000 psi) or other higher compressive release strength specified on the plans, as determined from tests of 150 mm (6 in.) by 300 mm (12 in.) cylinders cured with the member according to Article 1020.13. Members shall not be shipped until 28-day strengths have been attained and members have a yard age of at least 4 days.”

Delete the third paragraph of Article 512.03(a) of the Standard Specifications.

Delete the last sentence of the second paragraph of Article 512.04(d) of the Standard Specifications.

Revise the “Index Table of Curing and Protection of Concrete Construction” table of Article 1020.13 of the Standard Specifications to read:

| “INDEX TABLE OF CURING AND PROTECTION OF CONCRETE CONSTRUCTION | | | |
|----------------------------------------------------------------|--------------------------------------------|--------------------|----------------------------------------|
| TYPE OF CONSTRUCTION | CURING METHODS | CURING PERIOD DAYS | LOW AIR TEMPERATURE PROTECTION METHODS |
| Cast-in-Place Concrete: ^{11/} | | | |
| Pavement | | | |
| Shoulder | 1020.13(a)(1)(2)(3)(4)(5) ^{3/ 5/} | 3 | 1020.13(c) |
| Base Course | | | |
| Base Course Widening | 1020.13(a)(1)(2)(3)(4)(5) ^{1/ 2/} | 3 | 1020.13(c) |
| Driveway | | | |
| Median | | | |
| Curb | | | |
| Gutter | 1020.13(a)(1)(2)(3)(4)(5) ^{4/ 5/} | 3 | 1020.13(c) ^{16/} |
| Curb and Gutter | | | |
| Sidewalk | | | |
| Slope Wall | | | |
| Paved Ditch | | | |
| Catch Basin | | | |
| Manhole | 1020.13(a)(1)(2)(3)(4)(5) ^{4/} | 3 | 1020.13(c) |
| Inlet | | | |
| Valve Vault | | | |
| Pavement Patching | 1020.13(a)(1)(2)(3)(4)(5) ^{2/} | 3 ^{12/} | 1020.13(c) |
| Pavement Replacement | 1020.13(a)(1)(2)(3)(4)(5) ^{1/ 2/} | 3 | 442.06(h) and 1020.13(c) |
| Railroad Crossing | 1020.13(a)(3)(5) | 1 | 1020.13(c) |
| Piles | 1020.13(a)(3)(5) | 7 | 1020.13(e)(1)(2)(3) |
| Footings | | | |
| Foundation Seals | 1020.13(a)(1)(2)(3)(4)(5) ^{4/6/} | 7 | 1020.13(e)(1)(2)(3) |
| Substructure | 1020.13(a)(1)(2)(3)(4)(5) ^{1/7/} | 7 | 1020.13(e)(1)(2)(3) |
| Superstructure (except deck) | 1020.13(a)(1)(2)(3)(5) ^{8/} | 7 | 1020.13(e)(1)(2) |
| Deck | 1020.13(a)(5) | 7 | 1020.13(e)(1)(2) ^{17/} |
| Retaining Walls | 1020.13(a)(1)(2)(3)(4)(5) ^{1/7/} | 7 | 1020.13(e)(1)(2) |
| Pump Houses | 1020.13(a)(1)(2)(3)(4)(5) ^{1/} | 7 | 1020.13(e)(1)(2) |

| | | | |
|------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------|--------------------------------------------|
| Culverts | 1020.13(a)(1)(2)(3)(4)(5) ^{4/6/} | 7 | 1020.13(e)(1)(2) ^{18/} |
| Other Incidental Concrete | 1020.13(a)(1)(2)(3)(5) | 3 | 1020.13(c) |
| Precast Concrete: ^{11/} | | | |
| Bridge Beams | | | |
| Piles | | | |
| Bridge Slabs | 1020.13(a)(3)(5) ^{9/10/} | As required. ^{13/} | 504.06(c)(6), 1020.13(e)(2) ^{19/} |
| Nelson Type Structural Member | | | |
| All Other Precast Items | 1020.13(a)(3)(4)(5) ^{2/9/10/} | As required. ^{14/} | 504.06(c)(6), 1020.13(e)(2) ^{19/} |
| Precast, Prestressed Concrete: ^{11/} | | | |
| All Items | 1020.13(a)(3)(5) ^{9/10/} | Until strand tensioning is released. ^{15/} | 504.06(c)(6), 1020.13(e)(2) ^{19/} |

Notes-General:

- 1/ Type I, membrane curing only
- 2/ Type II, membrane curing only
- 3/ Type III, membrane curing only
- 4/ Type I, II and III membrane curing
- 5/ Membrane curing will not be permitted between November 1 and April 15.
- 6/ The use of water to inundate footings, foundation seals or the bottom slab of culverts is permissible when approved by the Engineer, provided the water temperature can be maintained at 7 °C (45 °F) or higher.
- 7/ Asphalt Emulsion for Waterproofing may be used in lieu of other curing methods when specified and permitted according to Article 503.18.
- 8/ On non-traffic surfaces which receive protective coat according to Article 503.19, a linseed oil emulsion curing compound may be used as a substitute for protective coat and other curing methods. The linseed emulsion curing compound will be permitted between April 16 and October 31 of the same year, provided it is applied with a mechanical sprayer according to Article 1101.09 (b), and meets the material requirements of Article 1022.07.
- 9/ Steam curing (heat and moisture) is acceptable and shall be accomplished by the method specified in Article 504.06(c)(6).
- 10/ A moist room according to AASHTO M 201 is acceptable for curing.
- 11/ If curing is required and interrupted because of form removal for cast-in-place concrete items, precast concrete products, or precast prestressed concrete products, the curing shall be resumed within two hours from the start of the form removal.
- 12/ Curing maintained only until opening strength is attained, with a maximum curing period of three days.
- 13/ The curing period shall end when the concrete has attained the mix design strength. The producer has the option to discontinue curing when the concrete has attained 80 percent of the mix design strength or after seven days. All strength test specimens shall remain with the units and shall be subjected to the same curing method and environmental condition as the units, until the time of testing.
- 14/ The producer shall determine the curing period or may elect to not cure the product. All strength test specimens shall remain with the units and shall be subjected to the same curing method and environmental condition as the units, until the time of testing.
- 15/ The producer has the option to continue curing after strand release.
- 16/ When structural steel or structural concrete is in place above slope wall, Article 1020.13(c) shall not apply. The protection method shall be according to Article 1020.13(e)(1).
- 17/ When Article 1020.13(e)(2) is used to protect the deck, the housing may enclose only the bottom and sides. The top surface shall be protected according to Article 1020.13(e)(1).

- 18/ For culverts having a waterway opening of 1 sq m (10 sq ft) or less, the culverts may be protected according to Article 1020.13(e)(3).
- 19/ The seven day protection period in the first paragraph of Article 1020.13(e)(2) shall not apply. The protection period shall end when curing is finished. For the third paragraph of Article 1020.13(e)(2), the decrease in temperature shall be according to Article 504.06(c)(6).”

Add the following to Article 1020.13(a) of the Standard Specifications:

“(5) Wetted Cotton Mat Method. After the surface of concrete has been textured or finished, it shall be covered immediately with dry cotton mats. The cotton mats shall be placed in a manner which will not mar the concrete surface. A texture resulting from the cotton mat material is acceptable. The cotton mats shall then be wetted immediately and thoroughly soaked with a gentle spray of water. For bridge decks, a foot bridge shall be used to place and wet the cotton mats.

The cotton mats shall be maintained in a wetted condition until the concrete has hardened sufficiently to place soaker hoses without marring the concrete surface. The soaker hoses shall be placed on top of the cotton mats at a maximum 1.2 m (4 ft) spacing. The cotton mats shall be kept wet with a continuous supply of water for the remainder of the curing period. Other continuous wetting systems may be used if approved by the Engineer.

After placement of the soaker hoses, the cotton mats shall be covered with white polyethylene sheeting or burlap-polyethylene blankets.

For construction items other than bridge decks, soaker hoses or a continuous wetting system will not be required if the alternative method keeps the cotton mats wet. Periodic wetting of the cotton mats is acceptable.

For areas inaccessible to the cotton mats on bridge decks, curing shall be according to Article 1020.13(a)(3).”

Revise the first paragraph of Article 1020.13(c) of the Standard Specifications to read:

“Protection of Portland Cement Concrete, Other Than Structures, From Low Air Temperatures. When the official National Weather Service forecast for the construction area predicts a low of 0 °C (32 °F), or lower, or if the actual temperature drops to 0 °C (32 °F), or lower, concrete less than 72 hours old shall be provided at least the following protection:”

Delete Article 1020.13(d) and Articles 1020.13(d)(1),(2),(3),(4) of the Standard Specifications.

Revise the first five paragraphs of Article 1020.13(e) of the Standard Specifications to read:

“Protection of Portland Cement Concrete Structures From Low Air Temperatures. When the official National Weather Service Forecast for the construction area predicts a low below 7 °C (45 °F), or if the actual temperature drops below 7 °C (45 °F), concrete less than 72 hours old shall be provided protection. Concrete shall also be provided protection when placed during the winter period of December 1 through March 15. Concrete shall not be placed until the materials, facilities and equipment for protection are approved by the Engineer.

When directed by the Engineer, the Contractor may be required to place concrete during the winter period. If winter construction is specified, the Contractor shall proceed with the construction, including concrete, excavation, pile driving, steel erection and all appurtenant work required for the complete construction of the item, except at times when weather conditions make such operations impracticable.

Regardless of the precautions taken, the Contractor shall be responsible for protection of the concrete placed and any concrete damaged by cold temperatures shall be removed and replaced by the Contractor at his/her own expense.”

Add the following at the end of the third paragraph of Article 1020.13(e)(1) of the Standard Specifications:

“The Contractor shall provide means for checking the temperature of the surface of the concrete during the protection period.”

Revise the second sentence of the first paragraph of Article 1020.13(e)(2) of the Standard Specifications to read:

“The Contractor shall provide means for checking the temperature of the surface of the concrete or air temperature within the housing during the protection period.”

Delete the last sentence of the first paragraph of Article 1020.13(e)(3) of the Standard Specifications.

Add the following Article to Section 1022 of the Standard Specifications:

“1022.06 Cotton Mats. Cotton mats shall consist of a cotton fill material, minimum 400 g/sq m (11.8 oz/sq yd), covered with unsized cloth or burlap, minimum 200 g/sq m (5.9 oz/sq yd), and be tufted or stitched to maintain stability.

Cotton mats shall be in a condition satisfactory to the Engineer. Any tears or holes in the mats shall be repaired.

Add the following Article to Section 1022 of the Standard Specifications:

“1022.07 Linseed Oil Emulsion Curing Compound. Linseed oil emulsion curing compound shall be composed of a blend of boiled linseed oil and high viscosity, heavy bodied linseed oil emulsified in a water solution. The curing compound shall meet the requirements of a Type I, II, or III according to Article 1022.01, except the drying time requirement will be waived. The oil phase shall be 50 ± 4 percent by volume. The oil phase shall consist of 80 percent by mass (weight) boiled linseed oil and 20 percent by mass (weight) Z-8 viscosity linseed oil. The water phase shall be 50 ± 4 percent by volume.”

Revise Article 1020.14 of the Standard Specifications to read:

“1020.14 Temperature Control for Placement. Temperature control for concrete placement shall conform to the following requirements:

- (a) Temperature Control other than Structures. The temperature of concrete immediately before placing, shall be not less than 10 °C (50 °F) nor more than 32 °C (90 °F). Aggregates and/or water shall be heated or cooled as necessary to produce concrete within these temperature limits.

When the temperature of the plastic concrete reaches 30 °C (85 °F), an approved retarding admixture shall be used or the approved water reducing admixture in use shall have its dosage increased by 50 percent over the dosage recommended on the Department's Approved List of Concrete Admixtures for the temperature experienced. The amount of retarding admixture to be used will be determined by the Engineer. This requirement may be waived by the Engineer when fly ash compensated mixtures are used.

Plastic concrete temperatures up to 35 °C (96 °F), as placed, may be permitted provided job site conditions permit placement and finishing without excessive use of water on and/or overworking of the surface. The occurrence within 24 hours of unusual surface distress shall be cause to revert to a maximum 32 °C (90 °F) plastic concrete temperature.

Concrete shall not be placed when the air temperature is below 5 °C (40 °F) and falling or below 2 °C (35 °F), without permission of the Engineer. When placing of concrete is authorized during cold weather, the Engineer may require the water and/or the aggregates to be heated to not less than 20 °C (70 °F) nor more than 65 °C (150 °F). The aggregates may be heated by either steam or dry heat prior to being placed in the mixer. The apparatus used shall heat the mass uniformly and shall be so arranged as to preclude the possible occurrence of overheated areas which might damage the materials. No frozen aggregates shall be used in the concrete.

For pavement patching, refer to Article 442.06(e) for additional information on temperature control for placement.

- (b) Temperature Control for Structures. The temperature of concrete as placed in the forms shall be not less than 10 °C (50 °F) nor more than 32 °C (90 °F). Aggregates and/or water shall be heated or cooled as necessary to produce concrete within these temperature limits. When insulated forms are used, the temperature of the concrete mixture shall not exceed 25 °C (80 °F). If the Engineer determines that heat of hydration might cause excessive temperatures in the concrete, the concrete shall be placed at a temperature between 10 °C (50 °F) and 15 °C (60 °F), per the Engineer's instructions. When concrete is placed in contact with previously placed concrete, the temperature of the concrete may be increased as required to offset anticipated heat loss.

Concrete shall not be placed when the air temperature is below 7 °C (45 °F) and falling or below 4 °C (40 °F), without permission of the Engineer. When placing of concrete is authorized during cold weather, the Engineer may require the water and/or the aggregates to be heated to not less than 20 °C (70 °F) nor more than 65 °C (150 °F). The aggregates may be heated by either steam or dry heat prior to being placed in the mixer. The apparatus used shall heat the mass uniformly and shall be so arranged as to preclude the possible occurrence of overheated areas which might damage the materials. No frozen aggregates shall be used in the concrete.

When the temperature of the plastic concrete reaches 30 °C (85 °F), an approved retarding admixture shall be used or the approved water reducing admixture in use shall have its dosage increased by 50 percent over the dosage recommended on the Department's Approved List of Concrete Admixtures for the temperature experienced. The amount of retarding admixture to be used will be determined by the Engineer. This requirement may be waived by the Engineer when fly ash compensated mixtures are used.

- (c) Temperature. The concrete temperature shall be determined according to ASTM C 1064.”

80114

EPOXY COATING ON REINFORCEMENT (BDE)

Effective: April 1, 1997

Revised: January 1, 2003

For work outside the limits of bridge approach pavement, all references to epoxy coating in the Highway Standards and Standard Specifications for reinforcement, tie bars and chair supports will not apply for pavement, shoulders, curb, gutter, combination curb and gutter and median.

31578

EROSION AND SEDIMENT CONTROL DEFICIENCY DEDUCTION (BDE)

Effective: August 1, 2001

Revised: November 1, 2001

When the Engineer is notified or determines an erosion and/or sediment control deficiency(s) exists, he/she will direct the Contractor in writing to correct the deficiency. The Contractor shall then correct the deficiency within 24 hours. The 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.

If the Contractor fails to correct the deficiency(s) within 24 hours, a daily monetary deduction will be imposed for each calendar day or fraction thereof the deficiency exists. The time period will begin with the initial written notification to the Contractor and end with the Engineer's acceptance of the corrected work. The per calendar day deduction will be either \$1000.00 or 0.05 percent of the awarded contract value, whichever is greater.

If the Contractor fails to respond, the Engineer may correct the deficiencies and deduct the cost from monies due or which may become due the Contractor. This corrective action shall in no way relieve the Contractor of his/her contractual requirements or responsibilities.

80055

EXPANSION JOINTS (BDE)

Effective: August 1, 2003

Add the following paragraph after the second paragraph of Article 420.10(e) of the Standard Specifications:

“After the dowel bars are oiled, plastic expansion caps shall be secured to the bars maintaining a minimum expansion gap of 50 mm (2 in.) between the end of the bar and the end of the cap. The caps shall fit snugly on the bar and the closed end shall be watertight. For expansion joints formed using dowel bar basket assemblies, the caps shall be installed on the alternating free ends of the bars. For expansion joints formed using a construction header, the caps shall be installed on the exposed end of each bar once the header has been removed and the joint filler material has been installed.”

80103

FLAGGER VESTS (BDE)

Effective: April 1, 2003

Revise the first sentence of Article 701.04(c)(1) of the Standard Specifications to read:

“The flagger shall be stationed to the satisfaction of the Engineer and be equipped with a fluorescent orange, fluorescent yellow/green or a combination of fluorescent orange and fluorescent yellow/green vest meeting the requirements of the American National Standards Institute specification ANSI/ISEA 107-1999 for Conspicuity Class 2 garments and approved flagger traffic control signs conforming to Standard 702001 and Article 702.05(e).”

Revise Article 701.04(c)(6) of the Standard Specifications to read:

“(6) Nighttime Flagging. The flagger station shall be lit by additional overhead lighting other than streetlights. The flagger shall be equipped with a fluorescent orange or fluorescent orange and fluorescent yellow/green garment meeting the requirements of the American National Standards Institute specification ANSI/ISEA 107-1999 for Conspicuity Class 2 garments.”

80101

FREEZE-THAW RATING (BDE)

Effective: November 1, 2002

Revise the first sentence of Article 1004.02(f) of the Standard Specifications to read:

“When coarse aggregate is used to produce portland cement concrete for base course, base course widening, pavement, driveway pavement, sidewalk, shoulders, curb, gutter, combination curb and gutter, median, paved ditch or their repair using concrete, the gradation permitted will be determined from the results of the Department’s Freeze-Thaw Test.”

| 80079

FURNISHED EXCAVATION (BDE)

| Effective: August 1, 2002

Revised: November 1, 2004

| Revise Article 204.01 of the Standard Specifications to read:

| “**Description.** Borrow excavation and furnished excavation shall consist of excavating suitable materials obtained from locations approved by the Engineer and transporting the materials to various locations throughout the limits of the contract.”

Revise Article 204.07(b) of the Standard Specifications to read:

“(b) Measured Quantities. Furnished excavation will be computed for payment in cubic meters (cubic yards) as follows:

Furnished Excavation = Embankment - [Suitable Excavation x (1 - Shrinkage Factor)]

Where:

Embankment = the volume of fill in its final position computed by the method of average end areas and based upon the existing ground line as shown on the plans except as noted in (1) and (2) below;

Suitable Excavation = earth excavation, rock excavation, and other on-site excavation suitable for use in embankments as shown in the Earthwork Schedule on the plans;

Shrinkage Factor = 0.25 unless otherwise shown on the plans.

(1) If the Contractor so requests, the Engineer will reestablish the existing ground line after the clearing and tree removal have been performed according to Section 201 and the top 150 mm (6 in.) of the existing ground surface has been disked and compacted to the satisfaction of the Engineer.

(2) If settlement platforms are erected, the Engineer will reestablish the existing ground line after the embankment is complete as specified in Article 204.07(a)(2).

Furnished excavation placed in excess of that required for the execution of the contract will not be measured for payment.”

Add the following paragraph to the end of Article 204.07 of the Standard Specifications:

“The quantity for furnished excavation will not be recalculated when surplus, suitable materials are utilized in embankments according to Article 202.03.”

80072

HAND VIBRATOR (BDE)

Effective: November 1, 2003

Add the following paragraph to Article 1103.17(a) of the Standard Specifications:

“The vibrator shall have a non-metallic head for areas containing epoxy coated reinforcement. The head shall be coated by the manufacturer. The hardness of the non-metallic head shall be less than the epoxy coated reinforcement, resulting in no damage to the epoxy coating. Slip-on covers will not be allowed.”

80054

IMPACT ATTENUATORS (BDE)

Effective: November 1, 2003

Description. This work shall consist of furnishing and installing impact attenuators of the category and test level specified.

Materials. Materials shall meet the requirements of the impact attenuator manufacturer and the following:

| Item | Article/Section |
|----------------------------------------------------------------|---------------------------|
| (a) Fine Aggregate (Note 1)..... | 1003.01 |
| (b) Steel Posts, Structural Shapes, and Plates | 1006.04 |
| (c) Rail Elements, End Section Plates, and Splice Plates | 1006.25 |
| (d) Bolts, Nuts, Washers and Hardware | 1006.25 |
| (e) Hollow Structural Tubing | 1006.27(b) |
| (f) Wood Posts and Wood Blockouts | 1007.01, 1007.02, 1007.06 |
| (g) Preservative Treatment..... | 1007.12 |

Note 1. Fine aggregate shall be FA-1 or FA-2, Class A quality. The sand shall be unbagged and shall have a maximum moisture content of five percent.

CONSTRUCTION REQUIREMENTS

General. Impact attenuators shall meet the testing criteria contained in National Cooperative Highway Research Program (NCHRP) Report 350 for the test level specified and shall be on the Department's approved list. Fully redirective and partially redirective attenuators shall also be designed for bi-directional impacts.

Installation. Regrading of slopes or approaches for the installation shall be as shown on the plans.

Attenuator bases, when required by the manufacturer, shall be constructed on a prepared subgrade according to the manufacturer's specifications. The surface of the base shall be slightly sloped or crowned to facilitate drainage. For sand modules, the perimeter of each module and the specified mass (weight) of sand in each module shall be painted on the surface of the base.

Impact attenuators shall be installed according to the manufacturer's specifications and include all necessary transitions between the impact attenuator and the item to which it is attached.

Method of Measurement. This work will be measured for payment as each, where each is defined as one complete installation.

Basis of Payment. This work, will be paid for at the contract unit price per each for IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW); IMPACT ATTENUATORS (FULLY REDIRECTIVE, WIDE); IMPACT ATTENUATORS (SEVERE USE, NARROW); IMPACT ATTENUATORS (SEVERE USE, WIDE); IMPACT ATTENUATORS (PARTIALLY REDIRECTIVE); or IMPACT ATTENUATORS (NON-REDIRECTIVE), of the test level specified.

Regrading of slopes or approaches will be paid for according to Section 202 and/or Section 204 of the Standard Specifications.

80109

LIGHT EMITTING DIODE (LED) SIGNAL HEAD (BDE)

Effective: April 1, 2002

Revised: August 1, 2003

Add the following paragraph to the end of Article 802.03 of the Standard Specifications:

“ The warranty for light emitting diode (LED) modules, including the maintained minimum luminous intensities, shall cover a minimum of 60 months from the date of delivery.”

Revise Article 880.01 of the Standard Specifications to read:

“ **880.01 Description.** This work shall consist of furnishing and installing a conventional signal head, optically programmed signal head or light emitting diode (LED) signal head.”

Revise Article 880.02(a) of the Standard Specifications to read:

“ (a) Signal Heads.....1078.01”

Revise the first sentence of the first paragraph of Article 880.03 of the Standard Specifications to read:

“ The signal head shall be installed on a post, bracket, span wire or mast arm as shown on the plans.”

Revise the first paragraph of Article 880.04 of the Standard Specifications to read:

“ **880.04 Basis of Payment.** This work will be paid for at the contract unit price each for SIGNAL HEAD, OPTICALLY PROGRAMMED SIGNAL HEAD, or SIGNAL HEAD, LED of the type specified and of the material type when specified.”

Revise Article 1078.01 of the Standard Specifications to read:

“ **1078.01 Signal Head, Optically Programmed Signal Head and Light Emitting Diode (LED) Signal Head.**”

Add the following to Article 1078.01(c) of the Standard Specifications:

“ (3) The LED signal section shall be according to the following:

a. General Requirements. The LED signal head shall meet the requirements of the Institute of Transportation Engineers (ITE) interim LED purchase specification, “Vehicle Traffic Control Signal Heads, Part 2: LED Vehicle Traffic Signal Modules”, or applicable successor ITE specifications, except as modified herein. The LEDs utilized in the modules shall not be Aluminum Gallium Arsenide (AlGaAs) material technology.

b. Physical and Mechanical Requirements. The power supply for the LED module shall be integrated with the unit.

c. Photometric Requirements. The candlepower values for yellow 300 mm (12 in.) circular modules shall be equal to the corresponding values for green 300 mm (12 in.) circular modules as listed in Table 1 of Section 4 of the aforementioned ITE specification based on normal use in traffic signal operation over the operating temperature range.

The illuminated portion of the arrow module shall be uniformly and completely dispersed with the LEDs.

d. Electrical Requirements. When applicable to the particular module type, the LED signal module shall be EPA Energy Star qualified. For yellow 300 mm (12 in.) circular and arrow modules, the wattage requirements shall be as follows:

| Module Type | Maximum Watts (W) at 74 °C (165 °F) | Nominal Watts (W) at 25 °C (77 °F) |
|---------------------------------|----------------------------------------|---------------------------------------|
| 300 mm (12 in.) Yellow Circular | 25 | 22 |
| 300 mm (12 in.) Yellow Arrow | 12 | 10 |

The individual LEDs shall be wired such that a catastrophic loss or the failure of one LED will result in the loss of not more than 5 percent of the signal module light output.

e. Warranty. The LED modules shall be warrantied according to Article 802.03. The maintained minimum intensities for 300 mm (12 in.) arrow modules throughout the warranty period under the operating temperature and voltage range, and at the end of the warranty period shall not be less than the following values:

| Module Type | Maintained Minimum Intensities (cd/sq m) |
|--------------|------------------------------------------|
| Red Arrow | 5,000 |
| Yellow Arrow | 11,000 |
| Green Arrow | 11,000" |

80067

MULCHING SEEDED AREAS (BDE)

Effective: January 1, 2005

Delete Article 251.02(a) of the Standard Specifications.

Add the following to Article 251.02 of the Standard Specifications:

“(h) Compost 1081.05(b)”

Delete Article 251.03(b)(1) of the Standard Specifications.

Add the following to Article 251.03 of the Standard Specifications:

“(d) Method 4. This method shall consist of applying compost combined with a performance additive designed to bind/stabilize the compost. The compost/performance additive mixture shall be applied to the surface of the slope using a pneumatic blower at a depth of 50 mm (2 in.)”

Revise the first sentence of the first paragraph of Article 251.06(b) of the Standard Specifications to read:

“Mulch Methods 1, 2, 3, and 4 will be measured for payment in hectares (acres) of surface area mulched.”

Revise Article 251.07 of the Standard Specifications to read:

“251.07 Basis of Payment. This work will be paid for at the contract unit price per hectare (acre) for MULCH, METHOD 1; MULCH, METHOD 2; MULCH, METHOD 3; or MULCH, METHOD 4; and at the contract unit price per square meter (square yard) for EROSION CONTROL BLANKET or HEAVY DUTY EROSION CONTROL BLANKET.”

Add the following after the second paragraph of Article 1081.05(b) of the Standard Specifications:

“Chemical Compost Binder. Chemical compost binder shall be a commercially available product specifically recommended by the manufacturer for use as a compost stabilizer.

The compost binder shall be nonstaining and nontoxic to vegetation and the environment. It shall disperse evenly and rapidly and remain in suspension when agitated in water.

Prior to use of the compost binder, the Contractor shall submit a notarized certification by the manufacturer stating that it meets these requirements. Chemical compost binder shall be packaged, stored, and shipped according to the manufacturer's recommendations with the net quantity plainly shown on each package or container."

80138

ORGANIC ZINC RICH PAINT SYSTEM

Effective: November 1, 2001

Revised: August 1, 2003

Add the following to Section 1008 of the Standard Specifications:

" **1008.26 Organic Zinc-Rich Paint System.** The organic zinc-rich paint system shall consist of an organic zinc-rich primer, an epoxy or urethane intermediate coat, and aliphatic urethane finish coats. It is intended for use over blast-cleaned steel when three-coat shop applications are specified. The system is also suitable for field painting blast-cleaned existing structures.

(a) General Requirements.

(1) Compatibility. Each coating in the system shall be supplied by the same paint manufacturer.

(2) Toxicity. Each coating shall contain less than 0.01 percent lead in the dry film and no more than trace amounts of hexavalent chromium, cadmium, mercury or other toxic heavy metals.

(3) Volatile Organics. The volatile organic compounds of each coating shall not exceed 420 g/L (3.5 lb/gal) as applied.

(b) Test Panel Preparation.

(1) Substrate and Surface Preparation. Test panels shall be AASHTO M 270M, Grade 250 (M 270 Grade 36), hot-rolled steel measuring 100 mm x 150 mm (4 in. x 6 in.). Panels shall be blast-cleaned per SSPC-SP5 white metal condition using metallic abrasive. The abrasive shall be a 60/40 mix of shot and grit. The shot shall be an SAE shot number S230 and the grit an SAE number G40. Hardness of the shot and grit shall be Rockwell C45. The anchor profile shall be 40-65 microns (1.5-2.5 mils) measured according to ASTM D 4417, Method C.

(2) Application and Curing. All coatings shall be spray applied at the manufacturer's recommended film thickness. The coated panels shall be cured at least 14 days at 24 °C ± 1 °C (75 °F ± 2 °F) and 50 ± 5 percent relative humidity.

(3) Scribing. The test panels shall be scribed according to ASTM D 1654 with a single "X" mark centered on the panel. The rectangular dimensions of the scribe shall have a top width of 50 mm (2 in.) and a height of 100 mm (4 in.). The scribe cut shall expose the steel substrate as verified with a microscope.

(4) Number of Panels. All testing shall be performed on triplicate panels.

(c) Zinc-Rich Primer Requirements.

(1) Generic Type. This material shall be an organic zinc-rich epoxy or urethane primer. It shall be suitable for topcoating with epoxies, urethanes, and acrylics.

(2) Zinc Dust. The zinc dust pigment shall comply with ASTM D 520, Type II.

(3) Slip Coefficient. The organic zinc coating shall meet a Class B AASHTO slip coefficient (0.50 or greater) for structural steel joints using ASTM A 325M (A 325) or A 490M (A 490) bolts.

(4) Salt Fog. There shall be no delamination, blistering, rust creepage at the scribe, or rusting at the scribe edges after 5,000 hours of salt fog exposure when tested according to ASTM B 117 and evaluated according to AASHTO R 31.

(5) Cyclic Exposure. There shall be no delamination, blistering, rust creepage at the scribe, or rusting at the scribe edges after 5,000 hours of cyclic exposure when tested according to ASTM D 5894 and evaluated according to AASHTO R 31.

(6) Humidity Exposure. There shall be no delamination, blistering, rust creepage at the scribe, or rusting at the scribe edges after 4,000 hours of humidity exposure when tested according to ASTM D 2247 and evaluated according to AASHTO R 31.

(7) Adhesion. The adhesion to an abrasively blasted steel substrate shall not be less than 6200 kPa (900 psi) when tested according to ASTM D 4541 Annex A4.

(8) Freeze Thaw Stability. There shall be no reduction of adhesion, which exceeds the test precision, after 30 days of freeze/thaw/immersion testing. One 24-hour cycle shall consist of 16 hours of approximately $-30\text{ }^{\circ}\text{C}$ ($-22\text{ }^{\circ}\text{F}$) followed by 4 hours of thawing at $50\text{ }^{\circ}\text{C}$ ($122\text{ }^{\circ}\text{F}$) and 4 hours tap water immersion at $25\text{ }^{\circ}\text{C}$ ($77\text{ }^{\circ}\text{F}$). The test panels shall remain in the freezer on weekends and holidays.

(d) Intermediate Coat Requirements.

(1) Generic Type. This material shall be an epoxy or urethane. It shall be suitable as an intermediate coat over inorganic and organic zinc primers and compatible with acrylic, epoxy, and polyurethane topcoats.

(2) Color. The color of the intermediate coat shall be white or off-white.

(e) Urethane Finish Coat Requirements.

(1) Generic Type. This material shall be an aliphatic urethane. It shall be suitable as a topcoat over epoxies and urethanes.

(2) Color and Hiding Power. The finish coat shall match Munsell Glossy Color 7.5G 4/8 Interstate Green, 2.5YR 3/4 Reddish Brown, 10B 3/6 Blue, or 5B 7/1 Gray. The color difference shall not exceed 3.0 Hunter Delta E Units. Color difference shall be measured by instrumental comparison of the designated Munsell standard to a minimum dry film thickness of 75 microns (3 mils) of sample coating produced on a test panel according to ASTM D 823, Practice E, Hand-Held, Blade Film Application. Color measurements shall be determined on a spectrophotometer with 45 degrees circumferential/zero degrees geometry, illuminant C, and two degrees observer angle. The spectrophotometer shall measure the visible spectrum from 380-720 nanometers with a wavelength interval and spectral bandpass of 10 nanometers.

The contrast ratio of the finish coat at 75 microns (3 mils) dry film thickness shall not be less than 0.99 when tested according to ASTM D 2805.

(3) Weathering Resistance. Test panels shall be aluminum alloy measuring 300 mm x 100 mm (12 in. x 4 in.) prepared according to ASTM D 1730 Type A, Method 1 Solvent Cleaning. A minimum dry film thickness of 75 microns (3 mils) of finish coat shall be applied to three test panels according to ASTM D 823, Practice E, Hand Held Blade Film Application. The coated panels shall be cured at least 14 days at 24 °C ± 1 °C (75 °F ± 2 °F) and 50 ± 5 percent relative humidity. The panels shall be subjected to 300 hours of accelerated weathering using the light and water exposure apparatus (fluorescent UV - condensation type) as specified in ASTM G 53-96 and ASTM G 154 (equipped with UVB-313 lamps). The cycle shall consist of 8 hours UV exposure at 60 °C (140 °F) followed by 4 hours of condensation at 40 °C (104 °F). After exposure, rinse the panel with clean water; allow to dry at room temperature for one hour. The exposed panels shall not show a color change of more than 3 Hunter Delta E Units.

(f) Three Coat System Requirements.

(1) Finish Coat Color. For testing purposes, the color of the finish coat shall match Federal Standard No 595, color chip 14062 (green).

(2) Salt Fog. When tested according to ASTM B 117 and evaluated according to AASHTO R 31, the paint system shall exhibit no spontaneous delamination and not exceed the following acceptance levels after 5,000 hours of salt fog exposure:

| Salt Fog Acceptance Criteria (max) | | | |
|------------------------------------|---------------|---------------|----------------------------|
| Blister Criteria | Rust Criteria | | |
| Size/Frequency | Maximum Creep | Average Creep | % Rusting at Scribed Edges |
| #8 Few | 4mm | 1mm | 1 |

(3) Cyclic Exposure. When tested according to ASTM D 5894 and evaluated according to AASHTO R 31, the paint system shall exhibit no spontaneous delamination and not exceed the following acceptance levels after 5,000 hours of cyclic exposure:

| Cyclic Exposure Acceptance Criteria (max) | | | |
|-------------------------------------------|---------------|---------------|----------------------------|
| Blister Criteria | Rust Criteria | | |
| Size/Frequency | Maximum Creep | Average Creep | % Rusting at Scribed Edges |
| #8 Few | 2mm | 1mm | 1 |

(4) Humidity Exposure. There shall be no delamination, blistering, rust creepage at the scribe, or rusting at the scribe edges after 4,000 hours of humidity exposure when tested according to ASTM D 2247 and evaluated according to AASHTO R 31.

(5) Adhesion. The adhesion to an abrasively blasted steel substrate shall not be less than 6200 kPa (900 psi) when tested according to ASTM D 4541 Annex A4.

(6) Freeze Thaw Stability. There shall be no reduction of adhesion, which exceeds the test precision, after 30 days of freeze/thaw/immersion testing. One 24 hour cycle shall consist of 16 hours of approximately -30 °C (-22 °F) followed by 4 hours of thawing at 50 °C (122 °F) and 4 hours tap water immersion at 25 °C (77 °F). The test panels shall remain in the freezer mode on weekends and holidays.

(g) Qualification Samples and Tests. The manufacturer shall supply, to an independent test laboratory and to the Department, samples of the organic zinc-rich primer, epoxy or urethane intermediate coat, and aliphatic urethane finish coats for evaluation. Prior to approval and use, the manufacturer shall submit a notarized certification of the independent laboratory, together with results of all tests, stating that these materials meet the requirements as set forth herein. The certified test report shall state lots tested, manufacturer's name, product names, and dates of manufacture. New certified test results and samples for testing by the Department shall be submitted any time the manufacturing process or paint formulation is changed. All costs of testing, other than tests conducted by the Department, shall be borne by the manufacturer.

(h) Acceptance Samples and Certification. A 1 L (1 qt) sample of each lot of paint produced for use on state or local agency projects shall be submitted to the Department for testing, together with a manufacturer's certification. The certification shall state that the formulation for the lot represented is essentially identical to that used for qualification testing. All acceptance samples shall be witnessed by a representative of the Illinois Department of Transportation. The organic zinc-rich primer, epoxy or urethane intermediate coat, and aliphatic urethane finish coats shall not be used until tests are completed and they have met the requirements as set forth herein."

80069

PARTIAL PAYMENTS (BDE)

Effective: September 1, 2003

Revise Article 109.07 of the Standard Specifications to read:

"109.07 Partial Payments. Partial payments will be made as follows:

(a) Progress Payments. At least once each month, the Engineer will make a written estimate of the amount of work performed in accordance with the contract, and the value thereof at the contract unit prices. The amount of the estimate approved as due for payment will be vouchered by the Department and presented to the State Comptroller for payment. No amount less than \$1000.00 will be approved for payment other than the final payment.

The failure to perform any requirement, obligation, or term of the contract by the Contractor shall be reason for withholding any progress payments until the Department determines that compliance has been achieved. Furthermore, progress payments may be reduced by liens filed pursuant to Section 23(c) of the Mechanics Lien Act, 770 ILCS 60/23(c).

- (b) Material Allowances. At the discretion of the Department, payment may be made for materials, prior to their use in the work, when satisfactory evidence is presented by the Contractor. Satisfactory evidence includes justification for the allowance (to expedite the work, meet project schedules, regional or national material shortages, etc.), documentation of material and transportation costs, and evidence that such material is properly stored on the project or at a secure location acceptable and accessible to the Department.

Material allowances will be considered only for nonperishable materials when the cost, including transportation, exceeds \$10,000 and such materials are not expected to be utilized within 60 days of the request for the allowance. For contracts valued under \$500,000, the minimum \$10,000 requirement may be met by combining the principal (material) product of no more than two contract items. An exception to this two item limitation may be considered for any contract regardless of value for items in which material (products) are similar except for type and/or size.

Material allowances shall not exceed the value of the contract items in which used and shall not include the cost of installation or related markups. Amounts paid by the Department for material allowances will be deducted from estimates due the Contractor as the material is used. Two-sided copies of the Contractor's cancelled checks for materials and transportation must be furnished to the Department within 60 days of payment of the allowances or the amounts will be reclaimed by the Department."

80116

PAYMENTS TO SUBCONTRACTORS (BDE)

Effective: June 1, 2000

Revised: September 1, 2003

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 no later than 30 days from the receipt of each payment made to the Contractor.

State law addresses the timing of payments to be made to subcontractors. Section 7 of the Prompt Payment Act, 30 ILCS 540/7, generally requires that when a Contractor receives any payment from the Department, the Contractor is required to make corresponding, proportional payments to each subcontractor performing work within 15 calendar days after receipt of the state payment. Section 7 of the State Prompt Payment Act further provides that interest in the amount of 2% per month, in addition to the payment due, shall be paid to any subcontractor 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 throughout the contracting chain.

This Special Provision establishes the required federal contract clause, and adopts the 15 calendar day requirement of the Act for purposes of compliance with the federal regulation regarding payments to subcontractors. This contract is subject to the following payment obligations.

As progress payments are made to the Contractor in accordance with Article 109.07 of the Standard Specifications for Road and Bridge Construction, the Contractor shall make a corresponding partial payment within 15 calendar days to each subcontractor in proportion to the work satisfactorily completed by each subcontractor. The proportionate amount of partial payment due to each subcontractor 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 shall be paid in full within 15 calendar days after the subcontractor's work has been satisfactorily completed. The Contractor shall hold no retainage from the subcontractors.

This Special Provision does not create any rights in favor of any subcontractor against the State of Illinois or authorize any cause of action against the State of Illinois on account of any payment, nonpayment, delayed payment or interest claimed by application of the State Prompt Payment Act. The Department will neither determine the reasonableness of any cause for delay of payment nor enforce any claim to payment, including interest. Moreover, the Department will not approve any delay or postponement of the 15 day requirement. State law creates 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 in accordance with the Public Construction Bond Act, 30 ILCS 550.

80022

PERSONAL PROTECTIVE EQUIPMENT (BDE)

Effective: July 1, 2004

All personnel, excluding flaggers, working outside of a vehicle (car or truck) within 7.6 m (25 ft) of pavement open to traffic shall wear a fluorescent orange, fluorescent yellow/green or a combination of fluorescent orange and fluorescent yellow/green vest meeting the requirements of the American National Standards Institute specification ANSI/ISEA 107-1999 for Conspicuity Class 2 garments. Other types of garments may be substituted for the vest as long as the garments have manufacturers tags identifying them as meeting the ANSI Class 2 requirement.

80130

PLASTIC BLOCKOUTS FOR GUARDRAIL (BDE)

Effective: November 1, 2004

Add the following to Article 630.02 of the Standard Specifications:

“(h) Plastic Blockouts (Note 1.)

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

80134

POLYUREA PAVEMENT MARKING (BDE)

Effective: April 1, 2004

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

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

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

Materials. Materials shall meet the following requirements:

(a) Polyurea Pavement Marking. The polyurea pavement marking material shall consist of 100 percent solid two part system formulated and designed to provide a simple volumetric mixing ratio of two components (must be two or three volumes of Part A to one volume of Part B). No volatile or polluting solvents or fillers will be allowed.

(b) Pigmentation. The pigment content by weight of component A shall be determined by low temperature ashing according to ASTM D 3723. The pigment content shall not vary more than \pm two percent from the pigment content of the original qualified paint.

White Pigment shall be Titanium Dioxide meeting ASTM D 476 Type II, Rutile.

Yellow Pigment shall be an Organic Yellow and contain no heavy metals.

(c) Environmental. Upon heating to application temperature, the material shall not exude fumes which are toxic or injurious to persons or property.

(d) Daylight Reflectance. The daylight directional reflectance of the cured polyurea material (without reflective media) shall be a minimum of 80 percent (white) and 50 percent (yellow) relative to magnesium oxide when tested using a color spectrophotometer with a 45 degrees circumferential /zero degrees geometry, illuminant C, and two degrees observer angle. The color instrument shall measure the visible spectrum from 380 to 720 nm with a wavelength measurement interval and spectral bandpass of 10 nm. In addition, the color of the yellow polyurea shall visually match Color Number 33538 of Federal Standard 595a with chromaticity limits as follows:

| | | | | |
|---|-------|-------|-------|-------|
| X | 0.490 | 0.475 | 0.485 | 0.539 |
| Y | 0.470 | 0.438 | 0.425 | 0.456 |

(e) Weathering Resistance. The polyurea marking material, when mixed in the proper ratio and applied at 0.35 to 0.41 mm (14 to 16 mils) wet film thickness to an aluminum alloy panel (Federal Test Std. No. 141, Method 2013) and allowed to cure for 72 hours at room temperature, shall be subjected to accelerated weathering for 75 hours. The accelerated weathering shall be completed by using the light and water exposure apparatus (fluorescent UV - condensation type) and tested according to ASTM G 53.

The cycle shall consist of four hours UV exposure at 50 °C (122 °F) and four hours of condensation at 40 °C (104 °F). UVB 313 bulbs shall be used. At the end of the exposure period, the material shall show no substantial change in color or gloss.

- (f) Dry Time. The polyurea pavement marking material, when mixed in the proper ratio and applied at 0.35 to 0.41 mm (14 to 16 mils) wet film thickness and with the proper saturation of reflective media, shall exhibit a no-tracking time of ten minutes or less when tested according to ASTM D 711.
- (g) Adhesion. The catalyzed polyurea pavement marking materials when applied to a 100 x 100 x 50 mm (4 x 4 x 2 in.) concrete block, shall have a degree of adhesion which results in a 100 percent concrete failure in the performance of this test.

The concrete block shall be brushed on one side and have a minimum strength of 24,100 kPa (3500 psi). A 50 mm (2 in.) square film of the mixed polyurea shall be applied to the brushed surface and allowed to cure for 72 hours at room temperature. A 50 mm (2 in.) square cube shall be affixed to the surface of the polyurea by means of an epoxy glue. After the glue has cured for 24 hours, the polyurea specimen shall be placed on a dynamic testing machine in such a fashion so that the specimen block is in a fixed position and the 50 mm (2 in.) cube (glued to the polyurea surface) is attached to the dynamometer head. Direct upward pressure shall be slowly applied until the polyurea system fails. The location of the break and the amount of concrete failure shall be recorded.

- (h) Hardness. The polyurea pavement marking materials when tested according to ASTM D 2240, shall have a shore D hardness of between 70 and 100. Films shall be cast on a rigid substrate at 0.35 to 0.41 mm (14 to 16 mils) in thickness and allowed to cure at room temperature for 72 hours before testing.
- (i) Abrasion. The abrasion resistance shall be evaluated according to ASTM D 4060 using a Taber Abrader with a 1,000 gram load and CS 17 wheels. The duration of the test shall be 1,000 cycles. The loss shall be calculated by difference and be less than 120 mgs. The tests shall be run on cured samples of polyurea material which have been applied at a film thickness of 0.35 to 0.41 mm (14 to 16 mils) to code S-16 stainless steel plates. The films shall be allowed to cure at room temperature for at least 72 hours and not more than 96 hours before testing.

- (j) Reflective Media. The reflective media shall meet the following requirements:

(1) Type I - The glass beads shall meet the requirements of Article 1095.07 of the Standard Specifications and the following requirements:

- a. First Drop Glass Beads The first drop glass beads shall be tested by the standard visual method of large glass spheres adopted by the Department. The beads shall have a silane coating and meet the following sieve requirements:

| Sieve Size | U.S. Standard Sieve Number | % Passing (By Weight) |
|------------|----------------------------|-----------------------|
| 1.70 mm | 12 | 95-100 |
| 1.40 mm | 14 | 75-95 |
| 1.18 mm | 16 | 10-47 |
| 1.00 mm | 18 | 0-7 |
| 850 µm | 20 | 0-5 |

- b. Second Drop Glass Beads. The second drop glass beads shall meet the requirements of Article 1095.07 of the Standard Specifications for Type B.
- (2) Type II - The combination of microcrystalline ceramic elements and glass beads shall meet the following requirements:
- a. First Drop Glass Beads. The first drop glass beads shall meet the following requirements:
1. Composition. The elements shall be composed of a titania opacified ceramic core having clear and or yellow tinted microcrystalline ceramic beads embedded to the outer surface.
 2. Index of Refraction. All microcrystalline reflective elements embedded to the outer surface shall have an index of refraction of 1.8 when tested by the immersion method.
 3. Acid Resistance. A sample of microcrystalline ceramic beads supplied by the manufacturer, shall show resistance to corrosion of their surface after exposure to a one percent solution (by weight) of sulfuric acid. Adding 5.7 ml (0.2 oz) of concentrated acid into the water shall make the one percent acid solution. This test shall be performed by taking a 25 x 50 mm (1 x 2 in.) sample and adhering it to the bottom of a glass tray and placing just enough acid solution to completely immerse the sample. The tray shall be covered with a piece of glass to prevent evaporation and allow the sample to be exposed for 24 hours under these conditions. The acid solution shall be decanted (do not rinse, touch, or otherwise disturb the bead surfaces) and the sample dried while adhered to the glass tray in a 66 °C (150 °F) oven for approximately 15 minutes. Microscope examination (20X) shall show no white (corroded) layer on the entire surface.
- b. Second Drop Glass Beads. The second drop glass beads shall meet the requirements of Article 1095.07 of the Standard Specifications for Type B or the following manufacturer's specification:

1. Sieve Analysis. The glass beads shall meet the following sieve requirements:

| Sieve Size | U.S. Standard Sieve Number | % Passing (By Weight) |
|------------|----------------------------|-----------------------|
| 850 μm | 20 | 100 |
| 600 μm | 30 | 75-95 |
| 300 μm | 50 | 15-35 |
| 150 μm | 100 | 0-5 |

The manufacturer of the glass beads shall certify that the treatment of the glass beads meets the requirements of the polyurea manufacturer.

2. Imperfections. The surface of the glass beads shall be free of pits and scratches. The glass beads shall be spherical in shape and shall contain a maximum of 20 percent by weight of irregular shapes when tested by the standard method using a vibratile inclined glass plate as adopted by the Department.

3. Index of Refraction. The index of refraction of the glass beads shall be a minimum of 1.50 when tested by the immersion method at 25 °C (77 °F).
- (k) Packaging. Microcrystalline ceramic reflective elements and glass beads shall be delivered in approved moisture proof bags or weather resistant bulk boxes. Each carton shall be legibly marked with the manufacturer, specifications and type, lot number, and the month and year the microcrystalline ceramic reflective elements and/or glass beads were packaged. The letters and numbers used in the stencils shall be a minimum of 12.7 mm (1/2 in.) in height.
- (1) Moisture Proof Bags. Moisture proof bags shall consist of at least five ply paper construction unless otherwise specified. Each bag shall contain 22.7 kg (50 lb) net.
- (2) Bulk Weather Resistance Boxes. Bulk weather resistance boxes shall conform to Federal Specification PPP-8-640D Class II or latest revision. Boxes are to be weather resistant, triple wall, fluted, corrugated-fiber board. Cartons shall be strapped with two metal straps. Straps shall surround the outside perimeter of the carton. The first strap shall be located approximately 50 mm (2 in.) from the bottom of the carton and the second strap shall be placed approximately in the middle of the carton. All cartons shall be shrink wrapped for protection from moisture. Cartons shall be lined with a minimum 4 mil polyester bag and meet Interstate Commerce Commission requirements. Cartons shall be approximately 1 x 1 m (38 x 38 in.), contain 910 kg (2000 lb) of microcrystalline ceramic reflective elements and/or glass beads and be supported on a wooden pallet with fiber straps.
- (l) Packaging. The material shall be shipped to the job site in substantial containers and shall be plainly marked with the manufacturer's name and address, the name and color of the material, date of manufacture, and batch number.
- (m) Verification. Prior to approval and use of the polyurea pavement marking materials, the manufacturer shall submit a notarized certification of an independent laboratory, together with the results of all tests, stating these materials meet the requirements as set forth herein. The certification test report shall state the lot tested, manufacturer's name, brand name of polyurea and date of manufacture. The certification shall be accompanied by one 1/2 L (1 pt) samples each of Part A and Part B. Samples shall be sent in the appropriate volumes for complete mixing of Part A and Part B.
- After approval by the Department, certification by the polyurea manufacturer shall be submitted for each batch used. New independent laboratory certified test results and samples for testing by the Department shall be submitted any time the manufacturing process or paint formulation is changed. All costs of testing (other than tests conducted by the Department) shall be borne by the manufacturer.
- (n) Acceptance samples. Acceptance samples shall consist of one 1/2 L (1 pt) samples of Part A and Part B, of each lot of paint. Samples shall be sent in the appropriate volumes for complete mixing of Part A and Part B. The samples shall be submitted to the Department for testing, together with a manufacturer's certification. The certification shall state the formulation for the lot represented is essentially identical to that used for qualification testing. All, acceptance samples will be taken by a representative of the Department. The polyurea pavement marking materials shall not be used until tests are completed and they have met the requirements as set forth herein.
- (o) Material Retainage. The manufacturer shall retain the test sample for a minimum of 18 months.

Equipment. The polyurea pavement marking compounds shall be applied through equipment specifically designed to apply two component liquid materials, glass beads and/or reflective elements in a continuous and skip-line pattern. The two-component liquid materials shall be applied after being accurately metered and then mixed with a static mix tube or airless impingement mixing guns. The static mixing tube or impingement mixing guns shall accommodate plural component material systems that have a volumetric ratio of 2 to 1 or 3 to 1. This equipment shall produce the required amount of heat at the mixing head and gun tip and maintain those temperatures within the tolerances specified. The guns shall have the capacity to deliver materials from approximately 5.7 to 11.4 L/min (1.5 to 3 gal/min) to compensate for a typical range of application speeds of 10 to 13 km/h (6 to 8 mph). The accessories such as spray tip, mix chamber, and rod diameter shall be selected according to the manufacturer's specifications to achieve proper mixing and an acceptable spray pattern. The application equipment shall be maneuverable to the extent that straight lines can be followed and normal curves can be made in a true arc. This equipment shall also have as an integral part of the gun carriage, a high pressure air spray capable of cleaning the pavement immediately prior to making application.

The equipment shall be capable of spraying both yellow and white polyurea, according to the manufacturer's recommended proportions and be mounted on a truck of sufficient size and stability with an adequate power source to produce lines of uniform dimensions and prevent application failure. The truck shall have at least two polyurea tanks each of 415 L (110 gal) minimum capacity and be equipped with hydraulic systems and agitators. It shall be capable of placing stripes on the left and right sides and placing two lines on a three-line system simultaneously with either line in a solid or intermittent pattern, in yellow or white, and applying the appropriate reflective media according to manufacturer's recommendations. All guns shall be in full view of operations at all times. The equipment shall have a metering device to register the accumulated installed quantities for each gun, each day. Each vehicle shall include at least one operator who shall be a technical expert in equipment operations and polyurea application techniques. Certification of equipment shall be provided at the pre-construction conference.

The mobile applicator shall include the following features:

- (a) Material Reservoirs. The applicator shall provide individual material reservoirs, or space for the storage of Part A and Part B of the resin composition.
- (b) Heating Equipment. The applicator shall be equipped with heating equipment of sufficient capacity to maintain the individual resin components at the manufacturer's recommended temperature of ± 2.8 °C (± 5 °F) for spray application.
- (c) Dispensing Equipment. The applicator shall be equipped with glass bead and/or reflective element dispensing equipment. The applicator shall be capable of applying the glass beads and/or reflective elements at a rate and combination indicated by the manufacturer.
- (d) Volumetric Usage. The applicator shall be equipped with metering devices or pressure gauges on the proportioning pumps as well as stroke counters to monitor volumetric usage. Metering devices or pressure gauges and stroke counters shall be visible to the Engineer.
- (e) Pavement Marking Placement. The applicator shall be equipped with all the necessary spray equipment, mixers, compressors and other appurtenances to allow for the placement of reflectorized pavement markings in a simultaneous sequence of operations.

The Contractor shall provide an accurate temperature-measuring device(s) that shall be capable of measuring the pavement temperature prior to application of the material, the material temperature at the gun tip and the material temperature prior to mixing.

CONSTRUCTION REQUIREMENTS

General. The pavement shall be cleaned by a method approved by the Engineer to remove all dirt, grease, glaze or any other material that would reduce the adhesion of the markings with minimum or no damage to the pavement surface. New 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.

Markings shall be applied to the cleaned surfaces on the same calendar day. If this cannot be accomplished, the surface shall be re-cleaned prior to applying the markings. No markings shall be applied until the Engineer approves the cleaning.

The pavement markings shall be applied to the cleaned road surface, during conditions of dry weather and subsequently dry pavement surfaces at a minimum uniform wet thickness of 0.4 mm (15 mils) according to the manufacturer's installation instructions. On new bituminous course surfaces the pavement markings shall be applied at a minimum uniform wet thickness of 0.5 mm (20 mils). The application of and combination of reflective media (glass beads and/or reflective elements) shall be applied at a rate specified by the manufacturer. At the time of installation the pavement surface temperature and the ambient temperature shall be above 4 °C (40 °F) and rising. The pavement markings shall not be applied if the pavement shows any visible signs of moisture or it is anticipated that damage causing moisture, such as rain showers, may occur during the installation and set periods. The Engineer will determine the atmospheric conditions and pavement surface conditions that produce satisfactory results.

Using the application equipment, the pavement markings shall be applied in the following manner, as a simultaneous operation:

- (a) The surface shall be air-blasted to remove any dirt and residue.
- (b) The resin shall be mixed and heated according to manufacturer's recommendations and sprayed onto the pavement surface.

The edge of the center line or lane line shall be offset a minimum distance of 50 mm (2 in.) from a longitudinal crack or joint. Edge lines shall be approximately 50 mm (2 in.) from the edge of pavement. The finished center and lane lines shall be straight, with the lateral deviation of any 3 m (10 ft) line not to exceed 25 mm (1 in.).

Notification. The Contractor shall notify the Engineer 72 hours prior to the placement of the markings in order that he/she can be present during the operation. At the time of notification, the Contractor shall provide the Engineer the manufacturer and lot numbers of polyurea and reflective media that will be used.

Inspection. The polyurea pavement markings will be inspected following installation according to Article 780.10 of the Standard Specifications, except, no later than December 15, and inspected following a winter performance period that extends 180 days from December 15.

Method of Measurement. This work will be measured for payment in place, in meters (feet). Double yellow lines will be measured as two separate lines.

Basis of Payment. This work will be paid for at the contract unit price per meter (foot) for POLYUREA PAVEMENT MARKING TYPE I – LINE of the line width specified or for POLYUREA PAVEMENT MARKING TYPE II – LINE of the line width specified.

80119

PORTABLE CHANGEABLE MESSAGE SIGNS (BDE)

Effective: November 1, 1993

Revised: April 2, 2004

Description. This work shall consist of furnishing, placing, and maintaining changeable message sign(s) at the locations(s) shown on the plans or as directed by the Engineer.

The sign(s) shall be trailer mounted. The message panel shall be at least 2.1 m (7 ft) above the pavement, present a level appearance, and be capable of displaying up to eight characters in each of three lines at a time. Character height shall be 450 mm (18 in.).

The message panel shall be of either a bulb matrix or disc matrix design controlled by an onboard computer capable of storing a minimum of 99 programmed messages for instant recall. The computer shall be capable of being programmed to accept messages created by the operator via an alpha-numeric keyboard and able to flash any six messages in sequence. The message panel shall also be capable of being controlled by a computer from a remote location via a cellular linkage. The Contractor shall supply the modem, the cellular phone, and the necessary software to run the sign from a remote computer at a location designated by the Engineer. The Contractor shall promptly program and/or reprogram the computer to provide the messages as directed by the Engineer.

The message panel shall be visible from 400 m (1/4 mile) under both day and night conditions. The letters shall be legible from 250 m (750 ft).

The sign shall include automatic dimming for nighttime operation and a power supply capable of providing 24 hours of uninterrupted service.

The Contractor shall provide all preventive maintenance efforts s(he) deems necessary to achieve uninterrupted service. If service is interrupted for any cause and not restored within 24 hours, the Engineer will cause such work to be performed as may be necessary to provide this service. The cost of such work shall be borne by the Contractor or deducted from current or future compensation due the Contractor.

When the sign(s) are displaying messages, they shall be considered a traffic control device. At all times when no message is displayed, they shall be considered equipment.

Basis of Payment. When portable changeable message signs are shown on the Standard, this work will not be paid for separately but shall be considered as included in the cost of the Standard.

For all other portable changeable message signs, this work will be paid for at the contract unit price per calendar month for each sign as CHANGEABLE MESSAGE SIGN.

80124

PORTLAND CEMENT (BDE)

Effective: January 1, 2005

Replace the first sentence of the second paragraph of Article 1001.01 of the Standard Specifications with the following:

“For portland cement according to ASTM C 150, the addition of up to 5.0 percent limestone by mass (weight) to the cement will not be permitted. Also, the total of all organic processing additions shall not exceed 1.0 percent by mass (weight) of the cement and the total of all inorganic processing additions shall not exceed 4.0 percent by mass (weight) of the cement.”

80139

PORTLAND CEMENT CONCRETE (BDE)

Effective: November 1, 2002

Add the following paragraph after the fourth paragraph of Article 1103.01(b) of the Standard Specifications:

“The truck mixer shall be approved before use according to the Bureau of Materials and Physical Research’s Policy Memorandum, “Approval of Concrete Plants and Delivery Trucks”.”

Add the following paragraph after the first paragraph of Article 1103.01(c) of the Standard Specifications:

“The truck agitator shall be approved before use according to the Bureau of Materials and Physical Research’s Policy Memorandum, “Approval of Concrete Plants and Delivery Trucks”.”

Add the following paragraph after the first paragraph of Article 1103.01(d) of the Standard Specifications:

“The nonagitator truck shall be approved before use according to the Bureau of Materials and Physical Research’s Policy Memorandum, “Approval of Concrete Plants and Delivery Trucks”.”

Revise the first sentence of the first paragraph of Article 1103.02 of the Standard Specifications to read:

“The plant shall be approved before production begins according to the Bureau of Materials and Physical Research’s Policy Memorandum, “Approval of Concrete Plants and Delivery Trucks”.”

80083

PRECAST CONCRETE PRODUCTS (BDE)

Effective: July 1, 1999

Revised: November 1, 2004

Product Approval. Precast concrete products shall be produced according to the Department’s current Policy Memorandum, “Quality Control/Quality Assurance Program for Precast Concrete Products”. The Policy Memorandum applies to precast concrete products listed under the Products Key of the "Approved List of Certified Precast Concrete Producers".

Precast Concrete Box Culverts. Add the following sentence to the end of the fourth paragraph of Article 540.06:

“After installation, the interior and exterior joint gap between precast concrete box culvert sections shall not exceed 38 mm (1 1/2 in.)”

Portland Cement Replacement. For precast concrete products using Class PC concrete or other mixtures, portland cement replacement with fly ash or ground granulated blast-furnace (GGBF) slag shall be governed by the AASHTO or ASTM standard specification referenced in the Standard Specifications.

For all other precast concrete products using Class PC concrete or other mixtures, portland cement replacement with fly ash or GGBF slag shall be approved by the Engineer. Class F fly ash shall not exceed 15 percent by mass (weight) of the total portland cement and Class F fly ash. Class C fly ash shall not exceed 20 percent by mass (weight) of the total portland cement and Class C fly ash. GGBF slag shall not exceed 25 percent by mass (weight) of the total portland cement and GGBF slag.

Concrete mix designs, for precast concrete products, shall not consist of portland cement, fly ash and GGBF slag.

Ready-Mixed Concrete. Delete the last paragraph of Article 1020.11(a) of the Standard Specifications.

Shipping. When a precast concrete product has attained the specified strength, the earliest the product may be loaded, shipped, and used is on the fifth calendar day. The first calendar day shall be the date casting was completed.

Acceptance. Products which have been lot or piece inspected and approved by the Department prior to July 1, 1999, will be accepted for use on this contract.

419.doc

RAP FOR USE IN BITUMINOUS CONCRETE MIXTURES (BDE)

Effective: January 1, 2000

Revised: April 1, 2002

Revise Article 1004.07 to read:

“1004.07 RAP Materials. RAP is reclaimed asphalt pavement resulting from cold milling or crushing of an existing dense graded hot-mix asphalt pavement. RAP must originate from routes or airfields under federal, state or local agency jurisdiction. The Contractor shall supply documentation that the RAP meets these requirements.

(a) Stockpiles. The Contractor shall construct individual, sealed RAP stockpiles meeting one of the following definitions. No additional RAP will be allowed on top of the pile after the pile has been sealed.

(1) Homogeneous. Homogeneous RAP stockpiles shall consist of RAP from Class I/ Superpave, or equivalent mixtures only and represent the same aggregate quality, but shall be at least C quality or better, the same type of crushed aggregate (either crushed natural aggregate, ACBF slag, or steel slag), similar gradation and similar AC 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. Homogenous stockpiles shall meet the requirements of Article 1004.07(d). Homogeneous RAP stockpiles not meeting these requirements may be processed (crushing and screening) and retested.

(2) Conglomerate. Conglomerate RAP stockpiles shall consist of RAP from Class I/ Superpave, or equivalent mixtures only. The coarse aggregate in this RAP shall be crushed aggregate only and may represent more than one aggregate type and/or quality but shall be at least C quality or better. This RAP may have an inconsistent gradation and/or asphalt cement content prior to processing. All conglomerate RAP shall be processed prior to testing by crushing to where all RAP shall pass the 16 mm (5/8 in.) or smaller screen. Conglomerate RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department. Conglomerate RAP stockpiles shall meet the requirements of Article 1004.07(d).

(3) Conglomerate “D” Quality (DQ). Conglomerate DQ RAP stockpiles shall consist of RAP containing coarse aggregate (crushed or round) that is at least D quality or better. This RAP may have an inconsistent gradation and/or asphalt content. Conglomerate DQ RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department. Conglomerate DQ RAP shall meet the requirements of Article 1004.07(d).

Reclaimed Superpave Low ESAL IL-9.5L surface mixtures shall only be placed in conglomerate DQ RAP stockpiles due to the potential for rounded aggregate.

(4) Other. RAP stockpiles that do not meet the requirements of the stockpile categories listed above shall be classified as “Other”. “Other” RAP stockpiles shall not be used in any of the Department’s bituminous mixtures.

- (b) Use. The allowable use of a RAP stockpile shall be set by the lowest quality of coarse aggregate in the RAP stockpile. Class I/Superpave surface mixtures are designated as containing Class B quality coarse aggregate only. Superpave Low ESAL IL-19.0L binder and IL-9.5L surface mixtures are designated as Class C quality coarse aggregate only. Class I/Superpave binder mixtures, bituminous base course mixtures, and bituminous base course widening mixtures are designated as containing Class C quality coarse aggregate only. Bituminous stabilized subbase and BAM shoulders are designated as containing Class D quality coarse aggregate only. Any mixture not listed above shall have the designated quality determined by the Department.

RAP containing steel slag or other expansive material, as determined by the Department, shall be homogeneous and will be approved for use in Class I/Superpave (including Low ESAL) surface mixtures only. RAP stockpiles for use in Class I/Superpave mixtures (including Low ESAL), base course, base course widening and Class B mixtures shall be either homogeneous or conglomerate RAP stockpiles except conglomerate RAP stockpiles shall not be used in Superpave surface mixture Ndesign 50 or greater. RAP for use in bituminous aggregate mixtures (BAM) shoulders and BAM stabilized subbase shall be from homogeneous, conglomerate, or conglomerate DQ stockpiles.

Additionally, RAP used in Class I/Superpave surface mixtures shall originate from milled or crushed mixtures only, in which the coarse aggregate is of Class B quality or better. RAP stockpiles for use in Class I/Superpave (including Low ESAL) binder mixes as well as base course, base course widening and Class B mixtures shall originate from milled or processed surface mixture, binder mixture, or a combination of both mixtures uniformly blended to the satisfaction of the Engineer, in which the coarse aggregate is of Class C quality or better.

- (c) Contaminants. RAP containing contaminants, such as earth, brick, sand, concrete, sheet asphalt, bituminous surface treatment (i.e. chip seal), pavement fabric, etc., will be unacceptable unless the contaminants are removed to the satisfaction of the Engineer. Sheet asphalt shall be stockpiled separately.

- (d) Testing. All 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 450 metric tons (500 tons) for the first 1800 metric tons (2,000 tons) and one sample per 1800 metric tons (2,000 tons) thereafter. A minimum of five tests shall be required for stockpiles less than 3600 metric tons (4,000 tons).

For testing existing stockpiles, 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 extract representative samples throughout the pile for testing.

Before extraction, each field sample shall be split to 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.

All of the extraction results shall be compiled and averaged for asphalt content and gradation. Individual extraction test results, when compared to the averages, will be accepted if within the tolerances listed below.

| Parameter | Homogeneous / Conglomerate | Conglomerate "D" Quality |
|-------------------|-------------------------------|-----------------------------|
| 25 mm (1 in.) | | ± 5% |
| 12.5 mm (1/2 in.) | ± 8% | ± 15% |
| 4.75 mm (No. 4) | ± 6% | ± 13% |
| 2.36 mm (No. 8) | ± 5% | |
| 1.18 mm (No. 16) | | ± 15% |
| 600 μm (No. 30) | ± 5% | |
| 75 μm (No. 200) | ± 2.0% | ± 4.0% |
| AC | ± 0.4% | ± 0.5% |

If more than 20 percent of the individual sieves are out of the gradation tolerances, or if more than 20 percent of the asphalt content test results fall outside the appropriate tolerances, the RAP will not be allowed to be used in the Department's bituminous concrete mixtures unless the RAP representing the failing tests is removed from the stockpile to the satisfaction of the Engineer. 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)".

- (e) Designs. At the Contractor's option, bituminous concrete mixtures may be constructed utilizing RAP material meeting the above detailed requirements. The amount of RAP included in the mixture shall not exceed the percentages specified in the plans.

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 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.

- (f) Production. The coarse aggregate in all RAP used shall be equal to or less than the nominal maximum size requirement for the bituminous 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.

SEEDING AND SODDING (BDE)

Effective: July 1, 2004

Revised: November 1, 2004

Revise Class 1A and 2A seeding mixtures shown in Table 1 of Article 250.07 of the Standard Specifications to read:

| "Table 1 - SEEDING MIXTURES | | |
|--------------------------------------|------------------------|----------------------|
| Class – Type | Seeds | kg/hectare (lb/acre) |
| 1A Salt Tolerant Lawn Mixture 7/ | Bluegrass | 70 (60) |
| | Perennial Ryegrass | 20 (20) |
| | Audubon Red Fescue | 20 (20) |
| | Rescue 911 Hard Fescue | 20 (20) |
| | Fults Salt Grass* | 70 (60) |
| 2A Salt Tolerant Roadside Mixture 7/ | Alta Fescue or Ky 31 | 70 (60) |
| | Perennial Ryegrass | 20 (20) |
| | Audubon Red Fescue | 20 (30) |
| | Rescue 911 Hard Fescue | 20 (30) |
| | Fults Salt Grass 1/ | 70 (60)" |

Revise Note 7 of Article 250.07 of the Standard Specifications to read:

"Note 7. In Districts 1 through 6, the planting times shall be April 1 to June 15 and August 1 to November 1. In Districts 7 through 9, the planting times shall be March 1 to June 1 and August 1 to November 15. Seeding may be performed outside these dates provided the Contractor guarantees a minimum of 75 percent coverage over the entire seeded area(s) after one growing season. The guarantee shall be submitted to the Engineer in writing prior to performing the work. After one growing season, areas not sustaining 75 percent growth shall be interseeded or reseeded, as determined by the Engineer, at the Contractor's expense."

Add the following sentence to Article 252.04 of the Standard Specifications:

"Sod shall not be placed during the months of July and August."

Revise the first paragraph of Article 252.08 of the Standard Specifications to read:

"252.08 Sod Watering. Within two hours after the sod has been placed, water shall be applied at a rate of 25 L/sq m (5 gal/sq yd). Additional water shall be applied every other day at a rate of 15 L/sq m (3 gal/sq yd) for a total of 15 additional waterings. During periods exceeding 26 °C (80 °F) or subnormal rainfall, the schedule of additional waterings may be altered with the approval of the Engineer."

Revise Article 252.09 of the Standard Specifications to read:

"252.09 Supplemental Watering. During periods exceeding 26 °C (80 °F) or subnormal rainfall, supplemental watering may be required after the initial and additional waterings. Supplemental watering shall be performed when directed by the Engineer. Water shall be applied at the rate specified by the Engineer within 24 hours of notice."

Revise the first and third paragraphs of Article 252.12 of the Standard Specifications to read:

“252.12 Method of Measurement. Sodding will be measured for payment in place and the area computed in square meters (square yards). To be acceptable for final payment, the sod shall be growing in place for a minimum of 30 days in a live, healthy condition. When directed by the Engineer, any defective or unacceptable sod shall be removed, replaced and watered by the Contractor at his/her own expense.”

“Supplemental watering will be measured for payment in units of 1000 L (1000 gal) of water applied on the sodded areas. Waterings performed in addition to those required by Article 252.08 or after the 30 day establishment period will be considered as supplemental watering.”

Replace the first paragraph of Article 252.13 of the Standard Specifications with the following:

“252.13 Basis of Payment. Sodding will be paid for at the contract unit price per square meter (square yard) for SODDING or SODDING, SALT TOLERANT according to the following schedule.

- (a) Initial Payment. Upon placement of sod, 25 percent of the pay item will be paid.
- (b) Final Payment. Upon acceptance of sod, the remaining 75 percent of the pay item will be paid.”

Revise Article 1081.03(b) of the Standard Specifications to read:

“(b) Salt Tolerant Sod.

| Variety | Percent by Weight |
|----------------------------|-------------------|
| Buffalo Grass | 30% |
| Buchloe Dactyloides | |
| Amigo Fineleaf Tall Fescue | 20% |
| Audubon Red Fescue | 15% |
| Rescue 911 Hard Fescue | 15% |
| Rugby Kentucky Bluegrass | 5% |
| Fults Pucinnellia Distans | 15%” |

Revise Table II of Article 1081.04(c)(6) of the Standard Specifications to read:

| TABLE II | | | | | | |
|------------------------|---------------------------------|------------------------------|---------------------------------------|----------------------------|------------------------------------------------------------------|---------|
| Variety of Seeds | Hard Seed Percent Maximum | Purity Percent Minimum | Pure, Live Seed Percent Minimum | Weed Percent Maximum | Secondary Noxious Weeds No. per kg (oz) Max. Permitted* | Remarks |
| Alfalfa | 20 | 92 | 89 | 0.50 | 211 (6) | 1/ |
| Brome Grass | - | 90 | 75 | 0.50 | 175 (5) | - |
| Clover, Alsike | 15 | 92 | 87 | 0.30 | 211 (6) | 2/ |
| Clover, Crimson | 15 | 92 | 83 | 0.50 | 211 (6) | - |
| Clover, Ladino | 15 | 92 | 87 | 0.30 | 211 (6) | - |
| Clover, Red | 20 | 92 | 87 | 0.30 | 211 (6) | - |
| Clover, White Dutch | 30 | 92 | 87 | 0.30 | 211 (6) | 3/ |
| Audubon Red Fescue | 0 | 97 | 82 | 0.10 | 105 (3) | - |
| Fescue, Alta or Ky. 31 | - | 97 | 82 | 1.00 | 105 (3) | - |
| Fescue, Creeping Red | - | 97 | 82 | 1.00 | 105 (3) | - |

| | | | | | | |
|-----------------------------|----|----|----|------|---------|---------|
| Fults Salt Grass | 0 | 98 | 85 | 0.10 | 70 (2) | - |
| Kentucky Bluegrass | - | 97 | 80 | 0.30 | 247 (7) | 5/ |
| Lespedeza, Korean | 20 | 92 | 84 | 0.50 | 211 (6) | 3/ |
| Oats | - | 92 | 88 | 0.50 | 70 (2) | 4/ |
| Orchard Grass | - | 90 | 78 | 1.50 | 175 (5) | 4/ |
| Redtop | - | 90 | 78 | 1.80 | 175 (5) | 4/ |
| Ryegrass, Perennial, Annual | - | 97 | 85 | 0.30 | 175 (5) | 4/ |
| Rye, Grain, Winter | - | 92 | 83 | 0.50 | 70 (2) | 4/ |
| Rescue 911 Hard Fescue | 0 | 97 | 82 | 0.10 | 105 (3) | - |
| Timothy | - | 92 | 84 | 0.50 | 175 (5) | 4/ |
| Vetch, Crown | 30 | 92 | 67 | 1.00 | 211 (6) | 3/ & 6/ |
| Vetch, Spring | 30 | 92 | 88 | 1.00 | 70 (2) | 4/ |
| Vetch, Winter | 15 | 92 | 83 | 1.00 | 105 (3) | 4/ |
| Wheat, hard Red Winter | - | 92 | 89 | 0.50 | 70 (2) | 4/ |

80131

SELF-CONSOLIDATING CONCRETE FOR PRECAST PRODUCTS (BDE)

Effective: July 1, 2004

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. The design and testing of a self-consolidating concrete mixture shall be according to Section 1020 of the Standard Specifications except as modified herein.

Materials. Materials shall conform to the following requirements:

- (a) Self-Consolidating Admixtures. The self-consolidating admixture system shall consist of either a high range water-reducing admixture only or a high range water-reducing admixture combined with a separate viscosity modifying admixture. The one or two component admixture system shall be capable of producing a flowable concrete that does not require mechanical vibration.

The high range water-reducing admixture shall comply with the requirements of AASHTO M 194, Type F.

The viscosity modifying admixture will be evaluated according to the test methods and mix design proportions referenced in AASHTO M 194, except the following physical requirements shall be met:

- (1) For initial and final set times, the allowable deviation of the test concrete from the reference concrete shall not be more than 1.0 hour earlier or 1.5 hours later.
- (2) For compressive and flexural strengths, the test concrete shall be a minimum of 90 percent of the reference concrete at 3, 7 and 28 days.
- (3) The length change of the test concrete shall be a maximum 135 percent of the reference concrete. However, if the length change of the reference concrete is less than 0.030 percent, the length change of the test concrete shall be a maximum 0.010 percentage units greater than the reference concrete.

(4) The relative durability factor of the test concrete shall be a minimum 80 percent.

- (b) Fine Aggregate. A fine aggregate used alone in the mix design shall not have an expansion greater than 0.30 percent per ASTM C 1260. For a blend of two or more fine aggregates, the resulting blend shall not have an expansion greater than 0.30 percent.

The aggregate blend expansion will be calculated as follows:

$$\text{Aggregate Blend Expansion} = (a/100 \times A) + (b/100 \times B) + (c/100 \times C) + \dots \text{etc.}$$

Where: a, b, c, ... = percent of aggregate blend

A, B, C, ... = aggregate expansion according to ASTM C 1260

Mix Design Criteria. The slump requirements of Article 1020.04 of the Standard Specifications shall not apply. In addition, the allowable coarse aggregate gradations shall be CA 11, CA 13, CA 14, CA 16, or a blend of these gradations. The fine aggregate proportion shall be a maximum 50 percent by mass (weight) of the total aggregate used.

Trail Batch. A minimum 1 cu m (1 cu yd) trial batch shall be produced. The mixture will be evaluated for air content, slump flow, visual stability index, compressive strength, passing ability, and static/dynamic segregation resistance.

The trial batch shall be scheduled and performed in the presence of the Engineer. Testing shall be performed per the Department's test method or as approved by the Engineer.

For the trial batch, the air content shall be within the top half of the allowable specification range. The slump flow range shall be 510 mm (20 in.) minimum to 710 mm (28 in.) maximum. The visual stability index shall be a maximum of 1. Strength shall be determined at 28 days. At the Contractor's option, strength may be determined for additional days.

Passing ability and static/dynamic segregation resistance shall be determined by tests selected by the Contractor and approved by the Engineer. The visual stability index shall not be used as the sole criteria for evaluating static segregation resistance.

After an acceptable mixture has been batched and tested, the mixture shall also be evaluated for robustness. Robustness shall be evaluated by varying the dosage of the self-consolidating admixture system and water separately. Additional trial batches may be necessary to accomplish this.

When necessary, the trial batches shall be disposed of according to Article 202.03 of the Standard Specifications.

Quality Control. Once testing is completed and acceptable results have been attained, production test frequencies and allowable test ranges for slump flow, visual stability index, passing ability, and static/dynamic segregation resistance shall be proposed. The production test frequencies and allowable test ranges will be approved by the Engineer.

The slump flow range shall be ± 50 mm (± 2 in.) of the target value, and within the overall range of 510 mm (20 in.) minimum to 710 mm (28 in.) maximum. The visual stability index shall be a maximum of 1. The approved test ranges for passing ability and static/dynamic segregation resistance will be based on recommended guidelines determined by the Engineer.

80132

SHOULDER STABILIZATION AT GUARDRAIL (BDE)

Effective: January 1, 2005

Revise the last sentence of the second paragraph of Article 630.06 of the Standard Specifications to read:

“The void around each post shall be backfilled with earth or aggregate and capped with 75 mm (3 in.) of bituminous mixture or grout.”

Replace the last sentence of the third paragraph of Article 630.06 of the Standard Specifications with the following:

“Guardrail posts shall be driven through holes cored in the completed shoulder stabilization. The void around each post shall be backfilled with earth or aggregate and capped with 75 mm (3 in.) of bituminous mixture or grout.”

Add the following paragraph to the end of Article 630.06 of the Standard Specifications:

“When driving guardrail posts through existing shoulders, shoulder stabilization, or other paved areas, the posts shall be driven through cored holes. The void around each post shall be backfilled with earth or aggregate and capped with 75 mm (3 in.) of bituminous mixture or grout.”

80140

STEEL COST ADJUSTMENT (BDE)

Effective: April 2, 2004

Revised: July 1, 2004

Description. At the bidder’s option, a steel cost adjustment will be made to provide additional compensation to the Contractor or a credit to the Department for fluctuations in steel prices. The bidder must indicate on the attached form whether or not steel cost adjustments will be part of this contract. This attached form shall be submitted with the bid. Failure to submit the form shall make this contract exempt of steel cost adjustments.

Types of Steel Products. An adjustment will be made for fluctuations in the cost of steel used in the manufacture of the following items:

- Metal Piling (excluding temporary sheet piling)
- Structural Steel
- Reinforcing Steel

Other steel materials such as dowel bars, tie bars, mesh reinforcement, guardrail, steel traffic signal and light poles, towers and mast arms, metal railings (excluding wire fence), frames and grates, and other miscellaneous items will be subject to a steel cost adjustment when the pay item they are used in has a contract value of \$10,000 or greater.

Documentation. Sufficient documentation shall be furnished to the Engineer to verify the following:

- (a) Evidence that increased or decreased steel costs have been passed on to the Contractor.
- (b) The dates and quantity of steel, in kg (lb), shipped from the mill to the fabricator.
- (c) The quantity of steel, in kg (lb), incorporated into the various items of work covered by this special provision. The Department reserves the right to verify submitted quantities.

Method of Adjustment. Steel cost adjustments will be computed as follows:

$$SCA = Q \times D$$

Where: SCA = steel cost adjustment, in dollars
Q = quantity of steel incorporated into the work, in kg (lb)
D = price factor, in dollars per kg (lb)

$$D = CBP_M - CBP_L$$

Where: CBP_M = The average of the Consumer Buying Price indices for Shredded Auto Scrap (Chicago) and No. 1 Heavy Melt (Chicago) as published by the American Metal Market (AMM) for the day the steel is shipped from the mill. The indices will be converted from dollars per ton to dollars per kg (lb).

CBP_L = The average of the Consumer Buying Price indices for Shredded Auto Scrap (Chicago) and No. 1 Heavy Melt (Chicago) as published by the AMM for the day the contract is let. The indices will be converted from dollars per ton to dollars per kg (lb).

The unit masses (weights) of steel that will be used to calculate the steel cost adjustment for the various items are shown in the attached table.

No steel cost adjustment will be made for any products manufactured from steel having a mill shipping date prior to the letting date.

If the Contractor fails to provide the required documentation, the method of adjustment will be calculated as described above; however, the CBP_M will be based on the date the steel arrives at the job site. In this case, an adjustment will only be made when there is a decrease in steel costs.

Basis of Payment. Steel cost adjustments may be positive or negative but will only be made when there is a difference between the CBP_L and CBP_M in excess of five percent, as calculated by:

$$\text{Percent Difference} = \{(CBP_L - CBP_M) \div CBP_L\} \times 100$$

Steel cost adjustments will be calculated by the Engineer and will be paid or deducted when all other contract requirements for the steel items are satisfied. Adjustments will only be made for fluctuations in the cost of the steel as described herein. No adjustment will be made for changes in the cost of manufacturing, fabrication, shipping, storage, etc.

Attachment

| Item | Unit Mass (Weight) |
|-----------------------------------------------------------------------------------|-------------------------------|
| Metal Piling (excluding temporary sheet piling) | |
| Furnishing Metal Pile Shells 305 mm (12 in.), 3.80 mm (0.179 in.) wall thickness) | 34 kg/m (23 lb/ft) |
| Furnishing Metal Pile Shells 305 mm (12 in.), 6.35 mm (0.250 in.) wall thickness) | 48 kg/m (32 lb/ft) |
| Furnishing Metal Pile Shells 356 mm (14 in.), 6.35 mm (0.250 in.) wall thickness) | 55 kg/m (37 lb/ft) |
| Other piling | See plans |
| Structural Steel | See plans for weights |
| Reinforcing Steel | See plans for weights |
| Dowel Bars and Tie Bars | 3 kg (6 lb) each |
| Mesh Reinforcement | 310 kg/sq m (63 lb/100 sq ft) |
| Guardrail | |
| Steel Plate Beam Guardrail, Type A w/steel posts | 30 kg/m (20 lb/ft) |
| Steel Plate Beam Guardrail, Type B w/steel posts | 45 kg/m (30 lb/ft) |
| Steel Plate Beam Guardrail, Types A and B w/wood posts | 12 kg/m (8 lb/ft) |
| Steel Plate Beam Guardrail, Type 2 | 140 kg (305 lb) each |
| Steel Plate Beam Guardrail, Type 6 | 570 kg (1260 lb) each |
| Traffic Barrier Terminal, Type 1 Special (Tangent) | 330 kg (730 lb) each |
| Traffic Barrier Terminal, Type 1 Special (Flared) | 185 kg (410 lb) each |
| Steel Traffic Signal and Light Poles, Towers and Mast Arms | |
| Traffic Signal Post | 16 kg/m (11 lb/ft) |
| Light Pole, Tenon Mount and Twin Mount, 9 m – 12 m (30 - 40 ft) | 21 kg/m (14 lb/ft) |
| Light Pole, Tenon Mount and Twin Mount, 13.5 m – 16.5 m (45 - 55 ft) | 31 kg/m (21 lb/ft) |
| Light Pole w/Mast Arm, 9 m – 15.2 m (30 - 50 ft) | 19 kg/m (13 lb/ft) |
| Light Pole w/Mast Arm, 16.5 m – 18 m (55 - 60 ft) | 28 kg/m (19 lb/ft) |
| Light Tower w/Luminaire Mount, 24 m – 33.5 m (80 - 110 ft) | 46 kg/m (31 lb/ft) |
| Light Tower w/Luminaire Mount, 36.5 m – 42.5 m (120 - 140 ft) | 97 kg/m (65 lb/ft) |
| Light Tower w/Luminaire Mount, 45.5 m – 48.5 m (150 - 160 ft) | 119 kg/m (80 lb/ft) |
| Metal Railings (excluding wire fence) | |
| Steel Railing, Type SM | 95 kg/m (64 lb/ft) |
| Steel Railing, Type S-1 | 58 kg/m (39 lb/ft) |
| Steel Railing, Type T-1 | 79 kg/m (53 lb/ft) |
| Steel Bridge Rail | 77 kg/m (52 lb/ft) |
| Frames and Grates | |
| Frame | 115 kg (250 lb) |
| Lids and Grates | 70 kg (150 lb) |

RETURN WITH BID

**ILLINOIS DEPARTMENT
OF TRANSPORTATION**

**OPTION FOR
STEEL COST ADJUSTMENT**

The bidder shall submit this form with his/her bid. Failure to submit the form shall make this contract exempt of steel cost adjustments. After award, this form, when submitted shall become part of the contract.

Contract No.: _____

Company Name: _____

Contractor's Option:

Is your company opting to include this special provision as part of the contract plans?

Yes No

Signature: _____ **Date:** _____

80127

SUBGRADE PREPARATION (BDE)

Effective: November 1, 2002

Revise the tenth paragraph of Article 301.03 of the Standard Specifications to read:

“Equipment of such weight, or used in such a way as to cause a rut in the finished subgrade of 13 mm (1/2 in.) or more in depth, shall be removed from the work or the rutting otherwise prevented.”

| 80086

SUPERPAVE BITUMINOUS CONCRETE MIXTURES (BDE)

| Effective: January 1, 2000

Revised: April 1, 2004

Description. This work shall consist of designing, producing and constructing Superpave bituminous concrete mixtures using Illinois Modified Strategic Highway Research Program (SHRP) Superpave criteria. This work shall be according to Sections 406 and 407 of the Standard Specifications and the special provision, "Quality Control/Quality Assurance of Bituminous Concrete Mixtures", except as follows.

Materials.

- (a) Fine Aggregate Blend Requirement. The Contractor may be required to provide FA 20 manufactured sand to meet the design requirements. For mixtures with $N_{design} \geq 90$, at least 50 percent of the required fine aggregate fraction shall consist of either stone sand, slag sand, or steel slag sand meeting the FA/FM 20 gradation.
- (b) Reclaimed Asphalt Pavement (RAP). If the Contractor is allowed to use more than 15 percent RAP, as specified in the plans, a softer performance-graded binder may be required as determined by the Engineer.

RAP shall meet the requirements of the special provision, "RAP for Use in Bituminous Concrete Mixtures".

RAP will not be permitted in mixtures containing polymer modifiers.

RAP containing steel slag will be permitted for use in top-lift surface mixtures only.

- (c) Bituminous Material. The asphalt cement (AC) shall be performance-graded (PG) or polymer modified performance-graded (SBS-PG or SBR-PG) meeting the requirements of Article 1009.05 of the Standard Specifications for the grade specified on the plans.

The following additional guidelines shall be used if a polymer modified asphalt is specified:

- (1) The polymer modified asphalt cement shall be shipped, maintained, and stored at the mix plant according to the manufacturer's requirements. Polymer modified asphalt cement shall be placed in an empty tank and shall not be blended with other asphalt cements.
- (2) The mixture shall be designed using a mixing temperature of 163 ± 3 °C (325 ± 5 °F) and a gyratory compaction temperature of 152 ± 3 °C (305 ± 5 °F).
- (3) Pneumatic-tired rollers will not be allowed unless otherwise specified by the Engineer. A vibratory roller meeting the requirements of Article 406.16 of the Standard Specifications shall be required in the absence of the pneumatic-tired roller.

Laboratory Equipment.

- (a) Superpave Gyratory Compactor. The superpave gyratory compactor (SGC) shall be used for all QC/QA testing.
- (b) Ignition Oven. The ignition oven shall be used to determine the AC content. The ignition oven shall also be used to recover aggregates for all required washed gradations.

The Engineer may waive the ignition oven requirement for AC content if the aggregates to be used are known to have ignition AC content calibration factors which exceed 1.5 percent. If the ignition oven requirement is waived, other Department approved methods shall be used to determine the AC content.

Mixture Design. The Contractor shall submit mix designs, for approval, for each required mixture. Mix designs shall be developed by Level III personnel who have successfully completed the course, "Superpave Mix Design Upgrade". Articles 406.10 and 406.13 of the Standard Specifications shall not apply. The mixtures shall be designed according to the respective Illinois Modified AASHTO references listed below.

- AASHTO MP 2 Standard Specification for Superpave Volumetric Mix Design
- AASHTO R 30 Standard Practice for Mixture Conditioning of Hot-Mix Asphalt (HMA)
- AASHTO PP 28 Standard Practice for Designing Superpave HMA
- AASHTO T 209 Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures
- AASHTO T 312 Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyrotory Compactor
- AASHTO T 308 Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method

(a) Mixture Composition. The ingredients of the bituminous mixture shall be combined in such proportions as to produce a mixture conforming to the composition limits by weight. The gradation mixture specified on the plans shall produce a mixture falling within the limits specified in Table 1.

| TABLE 1. MIXTURE COMPOSITION (% PASSING) ^{1/} | | | | | | | | |
|--------------------------------------------------------|------------|------------------|------------|------------------|--------------------------|------------------|-------------------------|------------------|
| Sieve Size | IL-25.0 mm | | IL-19.0 mm | | IL-12.5 mm ^{4/} | | IL-9.5 mm ^{4/} | |
| | min | max | min | max | Min | max | min | max |
| 37.5 mm (1 1/2 in.) | | 100 | | | | | | |
| 25 mm (1 in.) | 90 | 100 | | 100 | | | | |
| 19 mm (3/4 in.) | | 90 | 82 | 100 | | 100 | | |
| 12.5 mm (1/2 in.) | 45 | 75 | 50 | 85 | 90 | 100 | | 100 |
| 9.5 mm (3/8 in.) | | | | | | 89 | 90 | 100 |
| 4.75 mm (#4) | 24 | 42 ^{2/} | 24 | 50 ^{2/} | 28 | 65 | 28 | 65 |
| 2.36 mm (#8) | 16 | 31 | 20 | 36 | 28 | 48 ^{3/} | 28 | 48 ^{3/} |
| 1.18 mm (#16) | 10 | 22 | 10 | 25 | 10 | 32 | 10 | 32 |
| 600 μm (#30) | | | | | | | | |

| | | | | | | | | |
|----------------------|---|----|---|----|---|----|---|----|
| 300 μm (#50) | 4 | 12 | 4 | 12 | 4 | 15 | 4 | 15 |
| 150 μm (#100) | 3 | 9 | 3 | 9 | 3 | 10 | 3 | 10 |
| 75 μm (#200) | 3 | 6 | 3 | 6 | 4 | 6 | 4 | 6 |

- 1/ Based on percent of total aggregate weight.
- 2/ The mixture composition shall not exceed 40 percent passing the 4.75 mm (#4) sieve for binder courses with Ndesign ≥ 90.
- 3/ The mixture composition shall not exceed 40 percent passing the 2.36 mm (#8) sieve for surface courses with Ndesign ≥ 90.
- 4/ The mixture composition for surface courses shall be according to IL-12.5 mm or IL-9.5 mm, unless otherwise specified by the Engineer.

One of the above gradations shall be used for leveling binder as specified in the plans and according to Article 406.04 of the Standard Specifications.

It is recommended that the selected combined aggregate gradation not pass through the restricted zones specified in Illinois Modified AASHTO MP 2.

- (b) Dust/AC Ratio for Superpave. The ratio of material passing the 75 μm (#200) sieve to total asphalt cement shall not exceed 1.0 for mixture design (based on total weight of mixture).
- (c) Volumetric Requirements. The target value for the air voids of the hot mix asphalt (HMA) shall be 4.0 percent at the design number of gyrations. The VMA and VFA of the HMA design shall be based on the nominal maximum size of the aggregate in the mix and shall conform to the requirements listed in Table 2.

| TABLE 2. VOLUMETRIC REQUIREMENTS | | | | | |
|-----------------------------------------|--------------------------------------------------------|----------------|----------------|---------------|-------------------------------------------|
| Ndesign | Voids in the Mineral Aggregate (VMA), % minimum | | | | Voids Filled with Asphalt (VFA), % |
| | IL-25.0 | IL-19.0 | IL-12.5 | IL-9.5 | |
| 50 | 12.0 | 13.0 | 14.0 | 15 | 65 - 78 |
| 70 | | | | | |
| 90 | | | | | |
| 105 | | | | | 65 - 75 |

- (d) Determination of Need for Anti-Stripping Additive. The mixture designer shall determine if an additive is needed in the mix to prevent stripping. The determination will be made on the basis of tests performed according to Illinois Modified T 283 using 4 in. Marshall bricks. To be considered acceptable by the Department as a mixture not susceptible to stripping, the ratio of conditioned to unconditioned split tensile strengths (TSRs) shall be equal to or greater than 0.75. Mixtures, either with or without an additive, with TSRs less than 0.75 will be considered unacceptable.

If it is determined that an additive is required, the additive may be hydrated lime, slaked quicklime, or a liquid additive, at the Contractor's option. The liquid additive shall be selected from the Department's list of approved additives and may be limited to those which have exhibited satisfactory performance in similar mixes.

Dry hydrated lime shall be added at a rate of 1.0 to 1.5 percent by weight of total dry aggregate. Slurry shall be added in such quantity as to provide the required amount of hydrated lime solids by weight of total dry aggregate. The exact rate of application for all anti-stripping additives will be determined by the Department. The method of application shall be according to Article 406.12 of the Standard Specifications.

Personnel. The QC Manager and Level I Technician shall have successfully completed the Department's "Superpave Field Control Course".

Required Plant Tests. Testing shall be conducted to control the production of the bituminous mixture. The Contractor shall use the test methods identified to perform the following mixture tests at a frequency not less than that indicated in Table 3.

| TABLE 3. REQUIRED PLANT TESTS for SUPERPAVE | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Parameter | Frequency of Tests | Test Method |
| Aggregate Gradation Hot bins for batch and continuous plants Individual cold-feeds or combined belt-feed for drier drum plants. (% passing sieves: 12.5 mm (1/2 in.), 4.75 mm (No. 4), 2.36 mm (No. 8), 600 µm (No. 30), 75 µm (No. 200)) | 1 dry gradation per day of production (either morning or afternoon sample). And 1 washed ignition oven test on the mix per day of production (conduct in afternoon if dry gradation is conducted in the morning or vice versa). NOTE. The order in which the above tests are conducted shall alternate from the previous production day (example: a dry gradation conducted in the morning will be conducted in the afternoon on the next production day and so forth). The dry gradation and washed ignition oven test results shall be plotted on the same control chart. | Illinois Procedure (See Manual of Test Procedures for Materials). |
| Asphalt Content by Ignition Oven (Note 1.) | 1 per half day of production | Illinois Modified AASHTO T 308 |
| Air Voids | Bulk Specific Gravity of Gyratory Sample | 1 per half day of production for first 2 days and 1 per day thereafter (first sample of the day) |
| | Maximum Specific Gravity of Mixture | Illinois Modified AASHTO T 209 |

Note 1. The Engineer may waive the ignition oven requirement for AC content if the aggregates to be used are known to have ignition AC content calibration factors which exceed 1.5 percent. If the ignition oven requirement is waived, other Department approved methods shall be used to determine the AC content.

During production, the ratio of minus 75 μm (#200) sieve material to total asphalt cement shall be not less than 0.6 nor more than 1.2 and the moisture content of the mixture at discharge from the mixer shall not exceed 0.5 percent. If at any time the ratio of minus 75 μm (#200) material to asphalt or moisture content of the mixture falls outside the stated limits, production of the mix shall cease. The cause shall be determined and corrective action satisfactory to the Engineer shall be initiated prior to resuming production.

During production, mixtures containing an anti-stripping additive will be tested by the Department for stripping according to Illinois Modified T 283. If the mixture fails to meet the TSR criteria for acceptance, no further mixture will be accepted until the Contractor takes such action as is necessary to furnish a mixture meeting the criteria.

Construction Requirements

Lift Thickness.

- (a) Binder and Surface Courses. The minimum compacted lift thickness for constructing bituminous concrete binder and surface courses shall be according to Table 4:

| TABLE 4 – MINIMUM COMPACTED LIFT THICKNESS | |
|---------------------------------------------------|---------------------|
| Mixture | Thickness, mm (in.) |
| IL-9.5 | 32 (1 1/4) |
| IL-12.5 | 38 (1 1/2) |
| IL-19.0 | 57 (2 1/4) |
| IL-25.0 | 76 (3) |

- (b) Leveling Binder. Mixtures used for leveling binder shall be as follows:

| TABLE 5 – LEVELING BINDER | |
|---------------------------------------------------------|-------------------|
| Nominal, Compacted, Leveling Binder Thickness, mm (in.) | Mixture |
| ≤ 32 (1 1/4) | IL-9.5 |
| 32 (1 1/4) to 50 (2) | IL 9.5 or IL-12.5 |

Density requirements shall apply for leveling binder when the nominal, compacted thickness is 32 mm (1 1/4 in.) or greater for IL-9.5 mixtures and 38 mm (1 1/2 in.) or greater for IL-12.5 mixtures.

- (c) Full-Depth Pavement. The compacted thickness of the initial lift of binder course shall be 100 mm (4 in.). The compacted thickness of succeeding lifts shall meet the minimums specified in Table 4 but not exceed 100 mm (4 in.).

If a vibratory roller is used for breakdown, the compacted thickness of the binder lifts, excluding the top lift, may be increased to 150 mm (6 in.) provided the required density is obtained.

- (d) Bituminous Patching. The minimum compacted lift thickness for constructing bituminous patches shall be according to Table 4.

Control Charts/Limits. Control charts/limits shall be according to QC/QA Class I requirements, except density shall be plotted on the control charts within the following control limits:

| TABLE 6. DENSITY CONTROL LIMITS | | |
|----------------------------------------|-------------------|-----------------|
| Mixture | Parameter | Individual Test |
| 12.5 mm / 9.5 mm | Ndesign \geq 90 | 92.0 – 96.0% |
| 12.5 mm / 9.5 mm | Ndesign < 90 | 92.5 – 97.4% |
| 19.0 mm / 25.0 mm | Ndesign \geq 90 | 93.0 – 96.0% |
| 19.0 mm / 25.0 mm | Ndesign < 90 | 93.0 – 97.4% |

Basis of Payment. On resurfacing projects, this work will be paid for at the contract unit price per metric ton (ton) for BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, of the friction aggregate mixture and Ndesign specified, LEVELING BINDER (HAND METHOD), SUPERPAVE, of the Ndesign specified, LEVELING BINDER (MACHINE METHOD), SUPERPAVE, of the Ndesign specified, and BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, of the mixture composition and Ndesign specified.

On resurfacing projects in which polymer modifiers are required, this work will be paid for at the contract unit price per metric ton (ton) for POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, of the friction aggregate mixture and Ndesign specified, POLYMERIZED LEVELING BINDER (HAND METHOD), SUPERPAVE, of the Ndesign specified, POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, of the Ndesign specified, and POLYMERIZED BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, of the mixture composition and Ndesign specified.

On full-depth pavement projects, this work will be paid for at the contract unit price per square meter (square yard) for BITUMINOUS CONCRETE PAVEMENT, (FULL-DEPTH), SUPERPAVE, of the thickness specified.

On projects where widening is constructed and the entire pavement is then resurfaced, the binder for the widening will be paid for at the contract unit price per square meter (square yard) for BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, of the mixture composition, Ndesign, and thickness specified. The surface and binder used to resurface the entire pavement will be paid for according to the paragraphs above for resurfacing projects.

80010

TEMPORARY EROSION CONTROL (BDE)

Effective: November 1, 2002

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

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

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

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

Extruded, UV resistant, high density polyethylene panels shall have a minimum height of 250 mm (10 in.) and minimum length of 1.0 m (39.4 in.). The panels shall have a 51 mm (2 in.) lip along the bottom of the panel. Each panel shall have a single rib thickness of 4 mm (5/32 in.) with a 12 mm (1/2 in.) distance between the ribs. The panels shall have an average apparent opening size equal to 4.75 mm (No. 4) sieve, with an average of 30 percent open area. The tensile strength of each panel shall be 26.27 kN/m (1800 lb/ft) in the machine direction and 7.3 kN/m (500 lb/ft) in the transverse direction when tested according to ASTM D 4595.

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

Erosion control blanket shall conform to Article 251.04.

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

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

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

| 80087

TRAFFIC BARRIER TERMINALS (BDE)

Effective: January 1, 2003

Revise Article 631.05 of the Standard Specifications to read:

“631.05 Traffic Barrier Terminal, Type 5 and Type 5A. The face of the guardrail shall be installed flush with the face of the bridge rail or parapet.”

Revise Article 631.06 of the Standard Specifications to read:

“631.06 Traffic Barrier Terminal, Type 6. When attaching the end shoe to concrete constructed with forms and with a thickness of 300 mm (12 in.) or less, the holes may be formed, core drilled or an approved 20 mm (3/4 in.) cast-in-place insert may be used.

When attaching the end shoe to concrete constructed with forms and with a thickness greater than 300 mm (12 in.), an approved M20 (3/4 in.) bolt with an approved expansion device may be used in lieu of formed or core drilled holes.

When attaching the end shoe to concrete constructed by slipforming, the holes shall be core drilled.

The tapered, parapet, wood block out shall be used on all appurtenances with a sloped face.

When no bridge approach curb is present, Type B concrete curb shall be constructed as shown on the plans according to Section 606.”

Revise Article 631.07 of the Standard Specifications to read:

“631.07 Traffic Barrier Terminal, Type 6B. Attachment of the end shoe to concrete shall be according to Article 631.06 except the tapered, parapet, wood block out will not be required.”

Delete the third and fourth paragraphs of Article 631.11 of the Standard Specifications.

Add the following paragraph to the end of Article 631.11 of the Standard Specifications:

“Construction of the Type B concrete curb for TRAFFIC BARRIER TERMINAL, TYPE 6 will be paid for according to Article 606.14.”

80098

TRAFFIC CONTROL DEFICIENCY DEDUCTION (BDE)

| Effective: April 1, 1992

Revised: January 1, 2005

To ensure a prompt response to incidents involving the integrity of work zone traffic control, the Contractor shall provide a telephone number where a responsible individual can be contacted 24 hours-a-day.

When the Engineer is notified, or determines a traffic control deficiency 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 12 hours based upon the urgency of the situation and the nature of the deficiency. The Engineer shall be the sole judge.

A deficiency may be any lack of repair, maintenance, or non-compliance with the traffic control plan. A deficiency may also be applied to situations where corrective action is not an option such as the use of non-certified flaggers for short term operations; working with lane closures beyond the time allowed in the contract; or failure to perform required contract obligations such as traffic control surveillance.

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 \$1,000 or 0.05 percent of the awarded contract value, whichever is greater. For those deficiencies where corrective action was not an option this monetary deduction will be immediate.

In addition, if the Contractor fails to respond, the Engineer may correct the deficiency and the cost thereof will be deducted from monies due or which may become due the Contractor. This corrective action will in no way relieve the Contractor of his/her contractual requirements or responsibilities.

5729I

TRANSIENT VOLTAGE SURGE SUPPRESSION (BDE)

Effective: August 1, 2003

Revise the first paragraph of Article 1074.03(a)(4) of the Standard Specifications to read:

“(4) Transient Voltage Surge Suppression. The cabinet shall be provided with transient voltage surge suppression. Transient surge suppression unit leads shall be kept as short as possible and ground shall be made directly to the cabinet wall or ground plate as near as possible to the object being grounded. All transient surge suppression units shall be tested and certified as meeting this specification by an independent testing laboratory. One copy of each of the full testing report shall be submitted to the Engineer.”

Revise Article 1074.03(a)(4)a. of the Standard Specifications to read:

- “a. Surge Suppressor. The suppressor protecting the solid state controller, conflict monitor, and detection equipment shall consist of two stages: stage one which shall include a controller cabinet AC power protection assembly and stage two which shall include AC circuit protection.

The design of the stage one suppressor shall be modular and it shall be installed in such a way that it may be removed and replaced with the intersection under power and in flashing operation. It shall have a permanently mounted and wired base and a removable circuit package. The stage one suppressor shall have two LED failure indicators for power ‘on’ and suppression ‘failure’ and shall meet the following properties:

| Stage One Suppressor | |
|------------------------------------|-----------------------------------|
| Properties | Criteria |
| "Plug-in" suppression module | 12 pin connector assembly |
| Clamp voltage | 250 V at 20,000 A typical |
| Response time | Less than 5 nanoseconds |
| Maximum continuous service current | 15 A at 120 VAC 60 Hz |
| High frequency noise attenuation | At least 50 dB at 100,000 Hz |
| Operating temperature | -40 °C (-40 °F) to 85 °C (185 °F) |

If the controller assembly includes a system telemetry module or remote intersection monitor, the status of the stage one suppressor shall be continuously and remotely monitored by an appropriate alarm circuit.

The stage two, high speed, solid state, transient suppressor shall protect the system from transient over voltage without affecting power at the load. It shall suppress transients of either polarity and from either direction (source or load). The suppressor shall have a visual "on" indicator lamp when the unit is operating normally. It shall also have a UL plastic enclosure, a four position terminal strip for power connection, and it shall utilize silicon avalanche diode technology. The stage two suppressor shall meet the following properties:

| Stage Two Suppressor | |
|---------------------------------------------|-----------------------------------|
| Properties | Criteria |
| Nominal service voltage | 120 V at 50/60 Hz |
| Maximum voltage protection level | ±330 V |
| Minimum voltage protection level | ±220 V ±5% |
| Minimum surge current rating | 700 A |
| Stand by power | Less than 0.5 Watts |
| Hot to neutral leakage current at 120 V RMS | Less than 5µA |
| Maximum response time | 5 nanoseconds |
| Operating and Storage temperature | -20 °C (-4 °F) to 50 °C (122 °F)" |

80107m

TRUCK BED RELEASE AGENT (BDE)

Effective: April 1, 2004

Add the following sentence after the third sentence of the first paragraph of Article 406.14 of the Standard Specifications.

"In addition to the release agent, the Contractor may use a light scatter of manufactured sand (FA 20 or FA 21) evenly distributed over the bed of the vehicle."

80123

UNDERDRAIN OPERATIONS (BDE)

Effective: November 1, 2002

Underdrain operations shall be completed prior to weekend periods. Should delays of any type or for any reason prevent the completion of the work, the underdrain trenches shall be temporarily backfilled. Material able to support the average daily traffic and meeting the approval of the Engineer shall be used for the temporary backfill. The cost of furnishing, placing, maintaining, removing and disposing of the temporary work, including traffic control, shall be the responsibility of the Contractor.

| 80091

WEIGHT CONTROL DEFICIENCY DEDUCTION

Effective: April 1, 2001

Revised: August 1, 2002

The Contractor shall provide accurate weights of materials delivered to the contract for incorporation into the work (whether temporary or permanent) and for which the basis of payment is by weight. These weights shall be documented on delivery tickets which shall identify the source of the material, type of material, the date and time the material was loaded, the contract number, the net weight, the tare weight when applicable and the identification of the transporting vehicle. For aggregates, the Contractor shall have the driver of the vehicle furnish or establish an acceptable alternative to provide the contract number and a copy of the material order to the source for each load. The source is defined as that facility that produces the final material product that is to be incorporated into the contract pay items.

The Department will conduct random, independent vehicle weight checks for material sources according to the procedures outlined in the Documentation Section Policy Statement of the Department's Construction Manual and hereby incorporated by reference. The results of the independent weight checks shall be applicable to all contracts containing this Special Provision. Should the vehicle weight check for a source result in the net weight of material on the vehicle exceeding the net weight of material shown on the delivery ticket by 0.50% (0.70% for aggregates) or more, the Engineer will document the independent vehicle weight check and immediately furnish a copy of the results to the Contractor. No adjustment in pay quantity will be made. Should the vehicle weight check for a source result in the net weight of material shown on the delivery ticket exceeding the net weight of material on the vehicle by 0.50% (0.70% for aggregates) or more, the Engineer will document the independent vehicle weight check and immediately furnish a copy of the results to the Contractor. The Engineer will adjust the net weight shown on the delivery ticket to the checked delivered net weight as determined by the independent vehicle weight check.

The Engineer will also adjust the method of measurement for all contracts for subsequent deliveries of all materials from the source based on the independent weight check. The net weight of all materials delivered to all contracts containing this Special Provision from this source, for which the basis of payment is by weight, will be adjusted by applying a correction factor "A" as determined by the following formula:

$$A = 1.0 - \left(\frac{B - C}{B} \right); \text{ Where } A \leq 1.0; \left(\frac{B - C}{C} \right) > 0.50\% \text{ (0.70\% for aggregates)}$$

Where A = Adjustment factor
B = Net weight shown on delivery ticket
C = Net weight determined from independent weight check

The adjustment factor will be applied as follows:

$$\text{Adjusted Net Weight} = A \times \text{Delivery Ticket Net Weight}$$

The adjustment factor will be imposed until the cause of the deficient weight is identified and corrected by the Contractor to the satisfaction of the Engineer. If the cause of the deficient weight is not identified and corrected within seven (7) calendar days, the source shall cease delivery of all materials to all contracts containing this Special Provision for which the basis of payment is by weight.

Should the Contractor elect to challenge the results of the independent weight check, the Engineer will continue to document the weight of material for which the adjustment factor would be applied. However, provided the Contractor furnishes the Engineer with written documentation that the source scale has been calibrated within seven (7) calendar days after the date of the independent weight check, adjustments in the weight of material paid for will not be applied unless the scale calibration demonstrates that the source scale was not within the specified Department of Agriculture tolerance.

At the Contractor's option, the vehicle may be weighed on a second independent Department of Agriculture certified scale to verify the accuracy of the scale used for the independent weight check.

80048

WORK ZONE SPEED LIMIT SIGNS (BDE)

Effective: April 2, 2004

Revised: April 15, 2004

Delete Article 702.05(c).

Revise Article 702.05(d) to read:

“(d) Work Zone Speed Limit Signs. Work zone speed limit sign assemblies shall be provided and located as shown on the plans. Two additional assemblies shall be placed 150 m (500 ft) beyond the last entrance ramp for each interchange. The individual signs that make up an assembly may be combined on a single panel. The sheeting for the signs shall be reflective and conform to the requirements of Article 1084.02.

All permanent “SPEED LIMIT” signs located within the work zone shall be removed or covered. This work shall be coordinated with the lane closure(s) by promptly establishing a reduced posted speed zone when the lane closure(s) are put into effect and promptly reinstating the posted speed zone when the lane closure(s) are removed.

The work zone speed limit signs and end work zone speed limit signs shown in advance of and at the end of the lane closure(s) shall be used for the entire duration of the closure(s).

The work zone speed limit signs shown within the lane closure(s) shall only be used when workers are present in the closed lane adjacent to traffic; at all other times, the signs shall be promptly removed or covered. The sign assemblies shown within the lane closure(s) will not be required when the worker(s) are located behind a concrete barrier wall.

80125

WORK ZONE TRAFFIC CONTROL DEVICES (BDE)

Effective: January 1, 2003

Revised: November 1, 2004

Add the following to Article 702.01 of the Standard Specifications:

“All devices and combinations of devices shall meet the requirements of the National Cooperative Highway Research Program (NCHRP) Report 350 for their respective categories. The categories are as follows:

Category 1 includes small, lightweight, channelizing and delineating devices that have been in common use for many years and are known to be crashworthy by crash testing of similar devices or years of demonstrable safe performance. These include cones, tubular markers, flexible delineators and plastic drums with no attachments. Category 1 devices shall be crash tested and accepted or may be self-certified by the manufacturer.

Category 2 includes devices that are not expected to produce significant vehicular velocity change but may otherwise be hazardous. These include drums and vertical panels with lights, barricades and portable sign supports. Category 2 devices shall be crash tested and accepted for Test Level 3.

Category 3 includes devices that are expected to cause significant velocity changes or other potentially harmful reactions to impacting vehicles. These include crash cushions, truck mounted attenuators and other devices not meeting the definitions of Category 1 or 2. Category 3 devices shall be crash tested and accepted for either Test Level 3 or the test level specified.

Category 4 includes portable or trailer-mounted devices such as arrow boards, changeable message signs, temporary traffic signals and area lighting supports. Currently, there is no implementation date set for this category and it is exempt from the NCHRP 350 compliance requirement.

The Contractor shall provide a manufacturer’s self-certification letter for each Category 1 device and an FHWA acceptance letter for each Category 2 and Category 3 device used on the contract. The letters shall state the device meets the NCHRP 350 requirements for its respective category and test level, and shall include a detail drawing of the device.”

Delete the third, fourth and fifth paragraphs of Article 702.03(b) of the Standard Specifications.

Delete the third sentence of the first paragraph of Article 702.03(c) of the Standard Specifications.

Revise the first sentence of the first paragraph of Article 702.03(e) of the Standard Specifications to read:

“Drums shall be nonmetallic and have alternating reflectorized Type AA or Type AP fluorescent orange and reflectorized white horizontal, circumferential stripes.”

Add the following to Article 702.03 of the Standard Specifications:

“(h) Vertical Barricades. Vertical barricades may be used in lieu of cones, drums or Type II barricades to channelize traffic.”

Delete the fourth paragraph of Article 702.05(a) of the Standard Specifications.

Revise the sixth paragraph of Article 702.05(a) of the Standard Specifications to read:

“When the work operations exceed four days, all signs shall be post mounted unless the signs are located on the pavement or define a moving or intermittent operation. When approved by the Engineer, a temporary sign stand may be used to support a sign at 1.2 m (5 ft) minimum where posts are impractical. Longitudinal dimensions shown on the plans for the placement of signs may be increased up to 30 m (100 ft) to avoid obstacles, hazards or to improve sight distance, when approved by the Engineer. “ROAD CONSTRUCTION AHEAD” signs will also be required on side roads located within the limits of the mainline “ROAD CONSTRUCTION AHEAD” signs.”

Delete all references to “Type 1A barricades” and “wing barricades” throughout Section 702 of the Standard Specifications.

80097

CLEANING AND PAINTING NEW METAL STRUCTURES

Effective Date: September 13, 1994

Revised Date: August 19, 2004

Description. The material and construction requirements that apply to cleaning and painting new structural steel shall be according to the applicable portion of Sections 506 of the Standard Specifications except as modified herein. The three coat paint system shall be the system as specified on the plans and as defined herein.

Materials. All materials to be used on an individual structure shall be produced by the same manufacturer. The Bureau of Materials and Physical Research has established a list of all products that have met preliminary requirements. Each batch of material must be tested and approved by that bureau before use.

The paint materials shall meet the requirements of the following articles of the Standard Specification:

| <u>Item</u> | <u>Article</u> |
|---------------------------------------|----------------|
| (a) Inorganic Zinc-Rich Primer | 1008.22 |
| (b) Waterborne Acrylic | 1008.24 |
| (c) Aluminum Epoxy Mastic | 1008.25 |
| (d) Organic Zinc-Rich Primer (Note 1) | |
| (e) Epoxy Intermediate (Note 1) | |
| (f) Aliphatic Urethane (Note 1) | |

Note 1: These material requirements shall be according to the Special Provision for the Organic Zinc-Rich Paint System.

Submittals. At least 30 days prior to beginning field painting, the Contractor shall submit for the Engineer's review and acceptance, the following applicable plans, certifications and information for completing the field work. Field painting can not proceed until the submittals are accepted by the Engineer. Qualifications, certifications and QC plans for shop cleaning and painting shall be available for review by the QA Inspector.

- a) Contractor/Personnel Qualifications. Except for miscellaneous steel items such as bearings, side retainers, expansion joint devices, and other items allowed by the Engineer, or unless stated otherwise in the contract, the shop painting Contractors shall be certified to perform the work as follows: the shop painting Contractor shall possess AISC Sophisticated Paint Endorsement or SSPC-QP3 certification. Evidence of current qualifications shall be provided.

Personnel managing the shop and field Quality Control program(s) for this work shall possess a minimum classification as a National Association of Corrosion Engineers (NACE) Coating Inspector Technician, or shall provide evidence of successful inspection of 3 projects of similar or greater complexity and scope that have been completed in the last 2 years. Copies of the certification and/or experience shall be provided.

The personnel performing the QC tests for this work shall be trained in coatings inspection and the use of the testing instruments. Documentation of training shall be provided.

- b) Quality Control (QC) Program. The shop and field QC Programs shall identify the following; the instrumentation that will be used, a schedule of required measurements and observations, procedures for correcting unacceptable work, and procedures for improving surface preparation and painting quality as a result of quality control findings. The field program shall incorporate the IDOT Quality Control Daily Report form, as supplied by the Engineer.
- c) Field Cleaning and Painting Inspection Access Plan. The inspection access plan for use by Contractor QC personnel for ongoing inspections and by the Engineer during Quality Assurance (QA) observations.
- d) Surface Preparation/Painting Plan. The surface preparation/painting plan shall include the methods of surface preparation and type of equipment to be utilized for solvent cleaning, abrasive blast cleaning, washing, and power tool cleaning. The plan shall include the manufacturer's names of the materials that will be used, including Product Data Sheets and Material Safety Data Sheets (MSDS).

A letter or written instructions from the coating manufacturer shall be included, indicating the required drying time for each coat at the minimum, normal, and maximum application temperatures before the coating can be exposed to temperatures or moisture conditions that are outside of the published application parameters.

Field Quality Control (QC) Inspections. The Contractor shall perform first line, in process QC inspections of each phase of the work. The Contractor shall implement the submitted and accepted QC Program to insure that the work accomplished complies with these specifications. The Contractor shall use the IDOT Quality Control Daily Report form supplied by the Engineer to record the results of quality control tests. The completed reports shall be turned into the Engineer before work resumes the following day.

The Contractor shall have available at the shop or on the field site, all of the necessary inspection and testing equipment. The equipment shall be available for the Engineer's use when requested.

Field Quality Assurance (QA) Observations. The Engineer will conduct QA observations of any or all phases of the work. The Engineer's observations in no way relieve the Contractor of the responsibility to provide all necessary daily QC inspections of his/her own and to comply with all requirements of this Specification.

The Engineer has the right to reject any work that was performed without adequate provision for QA observations.

The Engineer will issue a Non-Conformance Report when cleaning and painting work is found to be in violation of the specification requirements, and is not corrected to bring it into compliance before proceeding with the next phase of work.

Inspection Access and Lighting. The Contractor shall facilitate the Engineer's observations as required, including allowing ample time to view the work. The Contractor shall furnish, erect and move scaffolding or other mechanical equipment to permit close observation of all surfaces to be cleaned and painted. This equipment shall be provided during all phases of the work. Examples of acceptable access structures include:

- Mechanical lifting equipment, such as, scissor trucks, hydraulic booms, etc.
- Platforms suspended from the structure comprised of trusses or other stiff supporting members and including rails and kick boards.
- Simple catenary supports are permitted only if independent life lines for attaching a fall arrest system according to Occupational Safety and Health Administration (OSHA) regulations are provided.

When the surface to be inspected is more than 1.8 m (6 ft) above the ground or water surface, the Contractor shall provide the Engineer with a safety harness and a lifeline according to OSHA regulations. The lifeline and attachment shall not direct the fall into oncoming traffic. The Contractor shall provide a method of attaching the lifeline to the structure independent of the inspection facility or any support of the platform. When the inspection facility is more than 800 mm (2 1/2 ft) above the ground, the Contractor shall provide an approved means of access onto the platform.

The Contractor shall provide artificial lighting in areas where natural light is inadequate, as determined by the Engineer, to allow proper cleaning, inspection, and painting. Illumination for inspection shall be at least 325 LUX (30 foot candles). Illumination for cleaning and painting, including the working platforms, access, and entryways shall be at least 215 LUX (20 foot candles).

Construction Requirements. The Contractor shall be responsible for any damage caused to persons, vehicles, or property, except as indemnified by the Response Action Contractor Indemnification Act. Whenever the intended purposes of the protective devices are not being accomplished, as determined by the Engineer, work shall be immediately suspended until corrections are made. Painted surfaces damaged by any Contractor's operation shall be removed and repainted, as directed by the Engineer, at the Contractor's expense.

The Contractor shall comply with the provisions of the Illinois Environmental Protection Act. Paint drips, spills, and overspray are not permitted to escape into the air or onto any other surfaces or surrounding property not intended to be painted. Containment shall be used to control paint drips, spills, and overspray, and shall be dropped and all equipment secured when sustained wind speeds of 64 kph (40 mph) or greater occur, unless the containment design necessitates action at lower wind speeds. The contractor shall evaluate project-specific conditions to determine the specific type and extent of containment needed to control the paint emissions and shall submit a plan for containing or controlling paint debris (droplets, spills, overspray, etc.) to the Engineer for approval prior to starting the work. Approval shall not relieve the Contractor of their ultimate responsibility for controlling paint debris from escaping the work zone.

Surface and Weather Conditions. Surfaces to be painted after cleaning shall remain free of moisture and other contaminants. The Contractor shall control his/her operations to insure that dust, dirt, or moisture does not come in contact with surfaces cleaned or painted that day.

The surface temperature shall be at least 3°C (5°F) above the dew point during final surface preparation operations. The paint manufacturers' published literature shall be followed for specific temperature, dew point, and humidity restrictions during the application of each coat.

The Contractor shall monitor temperature, dew point, and humidity every 4 hours during surface preparation and coating application in the specific areas where the work is being performed. The frequency of monitoring shall increase if weather conditions are changing. The Engineer has the right to reject any work that was performed under unfavorable weather conditions. Rejected work shall be removed, recleaned, and repainted at the Contractor's expense.

Seasonal Restrictions on Field Cleaning and Painting. Field cleaning and painting work shall be accomplished between April 15 and October 31 unless authorized otherwise by the Engineer in writing.

Inorganic Zinc-rich/ Waterborne Acrylic Paint system. This system shall be for shop and field application of the coating system, shop application of the intermediate and top coats will not be allowed.

In the shop, all structural steel designated to be painted shall be given one coat of inorganic zinc rich primer. In the field, before the application of the intermediate coat, the prime coat and any newly installed fasteners shall be spot solvent cleaned per SSPC-SP 1 and all surfaces pressure washed to remove dirt, oil, lubricants, oxidation products, and foreign substances. Washing shall involve the use of potable water at a pressure between 7 MPa (1000 psi) and 34 MPa (5000 psi) and according to "Low Pressure Water Cleaning" of SSPC-SP12. Paint spray equipment shall not be used to perform the water cleaning. All damaged shop primed areas shall then be spot cleaned per SSPC-SP3 and spot primed with aluminum epoxy mastic. The structural steel shall then receive one full intermediate coat and one full topcoat of waterborne acrylic paint.

- a) Paint drips, spills, and overspray must be controlled. If containment is used to control paint drips, spills, and overspray, the containment shall be dropped and all equipment secured when sustained wind speeds of 64 kph (40 mph) or greater occur. When the protective coverings need to be attached to the structure, they shall be attached by bolting, clamping, or similar means. Welding or drilling into the structure is prohibited unless approved by the Engineer in writing.
- b) Coating Dry Film Thickness (dft), measured according to SSPC-PA2:
 - Zinc Primer: 75 microns (3 mils) min., 150 microns (6 mils) max.
 - Epoxy Mastic: 125 microns (5 mils) min., 180 microns (7 mils) max.
 - Intermediate Coat: 50 microns (2 mils) min., 100 microns (4 mils) max.
 - Topcoat: 50 microns (2 mils) min., 100 microns (4 mils) max.

The total dry film thickness, excluding the spot areas touched up with epoxy mastic, shall be between 180 and 355 microns (7 and 14 mils).

- c) The pressure washing requirement above may be waived if the QC and QA Inspectors verify the primed surfaces have not been contaminated.
- d) Damage to the paint system shall be spot cleaned using SSPC-SP3. The cleaned areas shall be spot painted with a penetrating sealer as recommended by the manufacturer, which shall overlap onto the existing topcoat. Then the aluminum epoxy mastic shall be spot applied not to go beyond the area painted with the sealer. The acrylic intermediate and topcoat shall be spot applied to the mastic with at least a 150 mm (6 inch) overlap onto the existing topcoat.

Organic Zinc-Rich/ Epoxy/ Urethane Paint System. This system shall be for full shop application of the coating system, all contact surfaces shall be masked off prior to application of the intermediate and top coats.

Additional Surface Preparation. In addition to the requirements of Section 3.2.9 of the AASHTO/AWS D1.5M/D1.5:2002 Bridge Welding Code (breaking thermal cut corners of stress carrying members), rolled and thermal cut corners to be painted with organic zinc primer shall be broken if they are sharper than a 1.5 mm (1/16 in.) radius. Corners shall be broken by a single pass of a grinder or other suitable device at a 45° angle to each adjoining surface prior to final blast cleaning, so the resulting corner approximates a 1.5 mm (1/16 in.) or larger radius after blasting. Surface anomalies (burrs, fins, deformations) shall also be treated to meet this criteria before priming.

In the shop, all structural steel designated to be painted shall be given one coat of organic zinc rich primer. Before the application of the intermediate coat, the prime coat and any newly installed fasteners shall be spot solvent cleaned per SSPC-SP 1 and all surfaces pressure washed to remove dirt, oil, lubricants, oxidation products, and foreign substances. Washing shall involve the use of potable water at a pressure between 7 MPa (1000 psi) and 34 MPa (5000 psi) and according to "Low Pressure Water Cleaning" of SSPC-SP12. Paint spray equipment shall not be used to perform the water cleaning. All damaged shop primed areas shall then be spot cleaned per SSPC-SP3, and the structural steel shall then receive one full intermediate coat of epoxy and one full topcoat of aliphatic urethane.

- (a) Paint drips, spills, and overspray must be controlled. If containment is used to control paint drips, spills, and overspray, the containment shall be dropped and all equipment secured when sustained wind speeds of 64 kph (40 mph) or greater occur. When the protective coverings need to be attached to the structure, they shall be attached by bolting, clamping, or similar means. Welding or drilling into the structure is prohibited unless approved by the Engineer in writing.
- (b) Coating Dry Film Thickness (dft), measured according to SSPC-PA2:
 - organic Zinc Primer: 75 microns (3 mils) min., 125 microns (5 mils) max.
 - Aluminum Epoxy Mastic: 125 microns (5 mils) min., 180 microns (7 mils) max.
 - Epoxy Intermediate Coat: 75 microns (3 mils) min., 150 microns (6 mils) max.
 - Aliphatic Urethane Top Coat: 65 microns (2.5 mils) min., 100 microns (4 mils) max.
- (c) The total dry film thickness, excluding the spot areas touched up with epoxy mastic, shall be between 215 and 375 microns (8.5 and 15 mils).
- (d) When specified on the plans or as requested by the Contractor, and approved by the Engineer, the epoxy intermediate and aliphatic urethane top coats shall be applied in the shop. All faying surfaces of field connections shall be masked off after priming and shall not receive the intermediate or top coats in the shop. The intermediate and top coats for field connections shall be applied, in the field, after erection of the structural steel is completed. The pressure washing requirement above may be waived if the QC and QA Inspectors verify the primed surfaces have not been contaminated.
- (e) Erection and handling damage to the shop applied system shall be spot cleaned using SSPC-SP3. The surrounding coating at each repair location shall be feathered for a minimum distance of 40 mm (1 1/2 in.) to achieve a smooth transition between the prepared areas and the existing coating. The existing coating in the feathered area shall be roughened to insure proper adhesion of the repair coats. The areas cleaned to bare metal shall be spot painted with aluminum epoxy mastic. The intermediate and finish coat shall be spot applied to with at least a 150 mm (6 inch) overlap onto the existing finish coat.

The paint manufacturer's product data sheets shall be available for QA review in the shop and submitted to the Engineer prior to start of field work and the requirements as outlined in the data sheets shall be followed.

Special Instructions.

Painting Date/System Code. At the completion of the work, the Contractor shall stencil in contrasting color paint the date of painting the bridge, the painting Contractors name, and the paint type code from the Structure Information and Procedure Manual for the system used. The letters shall be capitals, not less than 50 mm (2 in.) and not more than 75 mm (3 in.) in height.

The stencil shall contain the following wording "PAINTED BY (insert the name of the painting Contractor)" and shall show the month and year in which the painting was completed, followed by "CODE S" for the Inorganic Zinc/ Acrylic System and "CODE X" for the Organic Zinc/ Epoxy/ Urethane System, all stenciled on successive lines. This information shall be stenciled on the cover plate of a truss end post near the top of the railing, or on the outside face of an outside stringer near both ends of the bridge facing traffic, or at some equally visible surface designated by the Engineer.

Method of Measurement. Shop cleaning and painting new structures will not be measured for payment. Field cleaning and painting will not be measured for payment except when performed under a contract that contains a separate pay item for this work.

Basis of Payment. This work will be paid for according to Article 506.07.

FABRIC REINFORCED ELASTOMERIC MAT

Effective: July 14,2000

Revised: September 12, 2003

Description. This work shall consist of furnishing and installing the fabric reinforced elastomeric mat as shown on the plans and as directed by the Engineer.

Materials. The elastomeric material requirements for the reinforced mat shall be according to the following:

The Elastomer Compound for the mat shall be according to AASHTO M 251 for Polychloroprene "50 duro", except the tensile strength shall be 10.3 MPa (1500 psi) minimum or it shall be (EPDM) ethylene propylene diene monomer according to Article 1052.02 of the Standard Specifications.

The composite of the fabric and elastomer shall have a minimum tensile strength of 122.6 x 122.6 N/mm (700 x 700 lb/in) according to ASTM D 378.

The minimum elongation at ultimate tensile strength shall be 30 percent according to ASTM D 412.

The minimum thickness of the reinforced mat shall be 3 mm (1/8 in.).

Threaded studs, washers and nuts shall be according to ASHTO M 164. Flattening plates shall be according to AASHTO M 270M, Grade 250 (M 270,Grade 36).

Method of Measurement. The fabric reinforced elastomeric mat and all hardware necessary to install the mat will not be measured for payment but shall be included in the concrete pay item involved.

Illinois Department of Transportation
PROJECT LABOR AGREEMENT

This Project Labor Agreement ("PLA") is entered into this _____ day of _____, 2004, by and between the Illinois Department of Transportation ("IDOT" or "Department") in its proprietary capacity, and each relevant Illinois AFL-CIO Building Trades Council signatory hereto on behalf of itself and each of its affiliated members (individually and collectively, the "Union"). This PLA shall apply to Construction Work (as defined herein) to be performed by IDOT's Prime Contractor and each of its relevant subcontractors of whatever tier ("Subcontractor" or "Subcontractors") on the Project Name (hereinafter, the "Project").

ARTICLE 1 - INTENT AND PURPOSES

- 1.1. This PLA is entered into in furtherance of Illinois Executive Order No. 2003-13. It is mutually understood and agreed that the terms and conditions of this PLA are intended to promote the public interest in obtaining timely and economical completion of the Project by encouraging productive and efficient construction operations; by establishing a spirit of harmony and cooperation among the parties; and by providing for peaceful and prompt settlement of any and all labor grievances or jurisdictional disputes of any kind without strikes, lockouts, slowdowns, delays or other disruptions to the prosecution of the work.
- 1.2. As a condition of the award of the contract for performance of work on the Project, IDOT's Prime Contractor and each of its Subcontractors shall be required to sign a "Contractor Letter of Assent", in the form attached hereto as Exhibit A, prior to commencing Construction Work on the Project. Each Union affiliate and separate local representing workers engaged in Construction Work on the Project in accordance with this PLA shall be required to sign the "Union Letter of Assent", in the form attached hereto as Exhibit B; provided, however, that the failure of any Union affiliate or local to sign such Union Letter of Assent prior to commencement of Construction Work shall not diminish the applicability of this PLA through the relevant Building Trades Council. Upon their signing the Letter of Assent, the Prime Contractor, each Subcontractor, and the individual Unions shall thereafter be deemed a party to this PLA. No party signatory to this PLA shall, contract or subcontract, nor permit any other person, firm, company or entity to contract or subcontract for the performance of Construction Work for the Project to any person, firm, company or entity that does not agree in writing to become bound by the terms of this PLA prior to commencing such work.
- 1.3. It is understood that the Prime Contractor(s) and each Subcontractor will be considered and accepted by the Unions as separate employers for the purposes of collective bargaining, and it is further agreed that the employees working under this PLA shall constitute a bargaining unit separate and distinct from all others. The Parties hereto also agree that this PLA shall be applicable solely with respect to this Project, and shall have no bearing on the interpretation of any other collective bargaining agreement or as to the recognition of any bargaining unit other than for the specific purposes of this Project.

- 1.4. In the event of a variance or conflict, whether explicit or implicit, between the terms and conditions of this PLA and the provisions of any other applicable national, area, or local collective bargaining agreement, the terms and conditions of this PLA shall supercede and control. For any work performed under the NTL Articles of Agreement, the National Stack/Chimney Agreement, the National Cooling Tower Agreement, the National Agreement of the International Union of Elevator Constructors, and for any instrument calibration work and loop checking performed under the UA/IBEW Joint National Agreement for Instrument and Control Systems Technicians, the preceding sentence shall apply only with respect to Articles I, II, V, VI, and VII.
- 1.5. Subject to the provisions of paragraph 1.4 of this Article, it is the parties' intent to respect the provisions of any other collective bargaining agreements that may now or hereafter pertain, whether between the Prime Contractor and one or more of the Unions or between a Subcontractor and one or more of the Unions. Accordingly, except and to the extent of any contrary provision set forth in this PLA, the Prime Contractor and each of its Subcontractors agrees to be bound and abide by the terms of the following in order of precedence: (a) the applicable collective bargaining agreement between the Prime Contractor and one or more of the Unions signatory hereto; (b) the applicable collective bargaining agreement between a Subcontractor and one or more of the Unions signatory hereto; or (c) the current applicable area collective bargaining agreement for the relevant Union that is the agreement certified by the Illinois Department of Labor for purposes of establishing the Prevailing Wage applicable to the Project. Copies of the potentially applicable collective bargaining agreements pursuant to part (c) of the preceding sentence are attached hereto as Exhibits 1 through ___. Assignments by the Contractors amongst the trades shall be consistent with area practices; in the event of unresolved disagreements as to the propriety of such assignments, the provisions of Article VI shall apply.
- 1.6. Subject to the limitations of paragraphs 1.4 and 1.5 of this Article, the terms of each applicable collective bargaining agreement as determined in accordance with paragraph 1.5 are incorporated herein by reference, and the terms of this PLA shall be deemed incorporated into such other applicable collective bargaining agreements only for purposes of their application to the Project.
- 1.7. To the extent necessary to comply with the requirements of any fringe benefit fund to which the Prime Contractor or Subcontractor is required to contribute under the terms of an applicable collective bargaining agreement pursuant to the preceding paragraph, the Prime Contractor or Subcontractor shall execute all "Participation Agreements" as may be reasonably required by the Union to accomplish such purpose; provided, however, that such Participation Agreements shall, when applicable to the Prime Contractor or Subcontractor solely as a result of this PLA, be amended as reasonably necessary to reflect such fact. Upon written notice from any applicable fringe benefit fund, IDOT will withhold from the Prime Contractor payment of any delinquencies arising from this Project.

- 1.8. In the event that the applicable collective bargaining agreement between a Prime Contractor and the Union or between the Subcontractor and the Union expires prior to the completion of this Project, the expired applicable contract's terms will be maintained until a new applicable collective bargaining agreement is ratified. The wages and fringe benefits included in any new applicable collective bargaining agreement will apply on and after the effective date of the newly negotiated collective bargaining agreement, except to the extent wage and fringe benefit retroactivity is specifically agreed upon by the relevant bargaining parties.

ARTICLE II – APPLICABILITY, RECOGNITION, AND COMMITMENTS

- 2.1 The term Construction Work as used herein shall include all “construction, prosecution, completion, or repair” work performed by a “laborer or mechanic” at the “site of the work” for the purpose of “building” the specific structures and improvements that constitute the Project. Terms appearing within quotation marks in the preceding sentence shall have the meaning ascribed to them pursuant to 29 CFR Part 5.
- 2.2 By executing the Letters of Assent, Prime Contractor and each of its Subcontractors recognizes the Unions signatory to this PLA as the sole and exclusive bargaining representatives for their craft employees employed on the jobsite for this Project. Unions who are signatory to this PLA will have recognition on the Project for their craft.
- 2.3 The Prime Contractor and each of its Subcontractors retains and shall be permitted to exercise full and exclusive authority and responsibility for the management of its operations, except as expressly limited by the terms of this PLA or by the terms and conditions of the applicable collective bargaining agreement.
- 2.4 Except to the extent contrary to an express provision of the relevant collective bargaining agreement, equipment or materials used in the Project may be pre-assembled or pre-fabricated, and there shall be no refusal by the Union to handle, transport, install, or connect such equipment or materials. Equipment or materials delivered to the job-site will be unloaded and handled promptly without regard to potential jurisdictional disputes; any such disputes shall be handled in accordance with the provisions of this PLA.
- 2.5 Unions commit to furnishing qualified and skilled craft persons as required by the Prime Contractor and its Subcontractors in fulfillment of their obligations to complete the Project. In order to promote the long-term development of a skilled and knowledgeable work force, the parties are encouraged to utilize apprentices to the maximum extent permitted by the applicable collective bargaining agreement.
- 2.6 The parties are mutually committed to promoting a safe working environment for all personnel at the job site. It shall be the responsibility of each employer to which this PLA applies to provide and maintain safe working conditions for its employees, and to comply with all applicable federal, state, and local health and safety laws and regulations.

- 2.7 The use or furnishing of alcohol or drugs and the conduct of any other illegal activity at the job-site is strictly prohibited. The parties shall take every practical measure consistent with the terms of applicable collective bargaining agreements to ensure that the job-site is free of alcohol and drugs.
- 2.8 All parties to this PLA agree that they shall not discriminate against any employee based on race, creed, color, national origin, union activity, age, or gender as required by all applicable federal, state, and local laws.
- 2.9 The Parties hereto agree that engineering consultants and materials testing employees, to the extent subject to the terms of this PLA, shall be fully expected to objectively and responsibly perform their duties and obligations owed to the Department without regard to the potential union affiliation of such employees or of other employees on the Project.

ARTICLE III - ADMINISTRATION OF AGREEMENT

- 3.1 In order to assure that all parties have a clear understanding of the PLA and to promote harmony, a post-award pre-job conference will be held among the Prime Contractor, all Subcontractors and Union representatives prior to the start of any Construction Work on the Project. No later than the conclusion of such pre-job conference, the parties shall, among other matters, provide to one another contact information for their respective representatives (including name, address, phone number, facsimile number, e-mail). Nothing herein shall be construed to limit the right of the Department to discuss or explain the purpose and intent of this PLA with prospective bidders or other interested parties prior to or following its award of the job.
- 3.2 Representatives of the Prime Contractor and the Unions shall meet as often as reasonably necessary following award until completion of the Project to assure the effective implementation of this PLA.
- 3.3 Not less than once per month, Prime Contractor and all Subcontractors shall make available in writing to the Unions a Project status report that shall include, though not necessarily be limited to, planned activities for the next 30 day period and estimated numbers of employees by craft required for the next 30 day period. The purpose of this Project status report is to promote effective workforce planning and to facilitate resolution of any potential jurisdictional or other problems.
- 3.4 Not later than the earlier of (a) five business days following the pre-job conference, or (b) commencement of Construction Work, the Unions and Prime Contractor (on behalf of itself and all its subcontractors of whatever tier) shall confer and jointly designate a slate of three (3) permanent arbitrators (each a "Permanent Arbitrator") for the purpose of hearing disputes pursuant to Articles V and VII of this PLA. The slate of Permanent Arbitrators shall be selected from among the following individuals: Jack P. Cerone,

Thomas F. Gibbons, Thomas G. Pagan, Robert Perkovich, Byron Yaffee, and Glenn A. Zipp. In the event that the Unions and Prime Contractor are not able to agree on a full slate of three Permanent Arbitrators, the Department, after consultation with the Unions and Prime Contractor, shall designate such additional Permanent Arbitrators as may be necessary to establish the full slate. A single Permanent Arbitrator shall be selected from the slate of three on a rotating basis to adjudicate each arbitrable matter as it arises. In the event a Permanent Arbitrator is not available to adjudicate a particular matter in the order of rotation, the arbitration assignment shall pass to the next available Permanent Arbitrator.

ARTICLE IV - HOURS OF WORK AND GENERAL CONDITIONS

- 4.1 The standard work day for Construction Work on the Project shall be an established consecutive eight (8) hour period between the hours of 7:00 a.m. and 5:00 p.m. with one-half hour designated as unpaid period for lunch. The standard work week shall be five (5) consecutive days of work commencing on Monday. Starting time shall be established at the pre-job conference, and shall be applicable to all craft employees on the Project unless otherwise expressly agreed in writing. In the event Project site or other job conditions dictate a change in the established starting time and/or a staggered lunch period for portions of the Project or for specific crafts, the Prime Contractor, relevant Subcontractors and business managers of the specific crafts involved shall confer and mutually agree to such changes as appropriate. If proposed work schedule changes cannot be mutually agreed upon between the parties, the hours fixed at the time of the pre-job meeting shall prevail.
- 4.2 Shift work may be established and directed by the Prime Contractor or relevant Subcontractor as reasonably necessary or appropriate to fulfill the terms of its contract with the Department. If used, shift hours, rates and conditions shall be as provided in the applicable collective bargaining agreement.
- 4.3 The parties agree that chronic and/or unexcused absenteeism is undesirable and must be controlled in accordance with procedures established by the applicable collective bargaining agreement. Any employee disciplined for absenteeism in accordance with such procedures shall be suspended from all work on the Project for not less than the maximum period permitted under the applicable collective bargaining agreement.
- 4.4 Except as may be otherwise expressly provided by the applicable collective bargaining agreement, employment begins and ends at the Project site; employees shall be at their place of work at the starting time; and employees shall remain at their place of work until quitting time.
- 4.5 Except as may be otherwise expressly provided by the applicable collective bargaining agreement, there shall be no limit on production by workmen, no restrictions on the full use of tools or equipment, and no restrictions on efficient use of manpower or techniques of construction other than as may be required by safety regulations.

- 4.6 The parties recognize that specialized or unusual equipment may be installed on the Project. In such cases, the Union recognizes the right of the Prime Contractor or Subcontractor to involve the equipment supplier or vendor's personnel in supervising the setting up of the equipment, making modifications and final alignment, and performing similar activities that may be reasonably necessary prior to and during the start-up procedure in order to protect factory warranties. The Prime Contractor or Subcontractor shall notify the Union representatives in advance of any work at the job-site by such vendor personnel in order to promote a harmonious relationship between the equipment vendor's personnel and other Project employees.
- 4.7 For the purpose of promoting full and effective implementation of this PLA, authorized Union representatives shall have access to the Project job-site during scheduled work hours. Such access shall be conditioned upon adherence to all reasonable visitor and security rules of general applicability that may be established for the Project site at the pre-job conference or from time to time thereafter.

ARTICLE V - GRIEVANCE AND ARBITRATION PROCEDURES

- 5.1 Except as provided in Articles VI or VII, it is specifically agreed among the parties that any grievance or dispute arising out of the interpretation or application of this PLA shall be settled by means of the expedited arbitration process set forth in Paragraph 5.2 below. No such grievance or dispute shall be recognized unless called to the attention of the Prime Contractor and relevant Subcontractor by the Union or to the Union by the Prime Contractor or relevant Subcontractor within five (5) working days after the alleged violation was committed or discovered by the grieving party.
- 5.2 Grievances shall be settled according to the following procedure:
- 5.2.A. Step 1. The dispute shall be referred to the Steward of the craft union involved and a representative of the Prime Contractor and relevant Subcontractor at the job-site.
- 5.2.B. Step 2. In the event that the Steward and the contractors' representatives at the job-site cannot reach agreement within two (2) working days after a meeting is arranged and held, the matter shall be referred to the Union Business Manager and to executive representatives of the Prime Contractor and relevant Subcontractor.
- 5.2.C. Step 3. In the event the dispute is not resolved within five (5) working days after completion of Step 2, the relevant parties shall request a Permanent Arbitrator as determined in accordance with paragraph 3.4 of this PLA, who shall, within ten (10) working days, hear the grievance and make a written decision. Such decisions shall be final and binding on all parties. The parties shall each pay the expense of their own representative. The expense of the Permanent Arbitrator shall be divided equally between (1) the Prime Contractor and/or relevant Subcontractor, and (2) the involved Union.

- 5.3 Any failure of a party to comply fully with such final and binding decision of the Permanent Arbitrator may result in removal of the non-complying party from the site, in a holdback from the Prime Contractor or Subcontractor of any amounts awarded, or in such other relief as the Department may reasonably determine is necessary to promote final resolution of the dispute.
- 5.4 In the event any dispute or grievance should arise, the parties expressly agree that it shall be resolved without occurrence of any strike, work stoppage, slow-down or other prohibited activities as provided in Article VII of this PLA. Individuals or parties violating this section shall be subject to immediate discharge or other discipline.

ARTICLE VI - JURISDICTIONAL DISPUTES

- 6.1 As used in this PLA, the term “jurisdictional dispute” shall be defined as any dispute, difference or disagreement involving the assignment of particular work to one class or craft of employees rather than to a different class or craft of employees, regardless of the Prime Contractor’s or relevant Subcontractor’s contractual relationship to any other employer, contractor, or organization on the site.
- 6.2 It is agreed by and between the parties to this Agreement that any and all jurisdictional disputes, whether between or among different Unions, employees, or other parties to this PLA, shall be settled and adjusted according to the present “Plan for Settlement of Jurisdictional Disputes in the Construction Industry” as established by the AFL-CIO Building and Construction Trades Department or any other plan or method of procedure that may be adopted in the future by the Building and Construction Trades Department for such purpose. Decisions rendered shall be final, binding and conclusive on the parties for purposes of this PLA.
- 6.3 The parties to this PLA agree that jurisdictional disputes cannot and shall not interfere with the efficient and continuous operations required for the proper completion of the Project and the successful application of this PLA. In the event a jurisdictional dispute arises, it shall be resolved without occurrence of any strike, work stoppage, slow-down or other prohibited activities as provided in Article VII of this PLA. The Prime Contractor’s or relevant Subcontractor’s assignment shall be adhered to until the dispute is resolved. Individuals violating this section shall be subject to immediate discharge.

ARTICLE VII - WORK STOPPAGES AND LOCKOUTS

- 7.1 During the term of this PLA, no Union or any of its members, officers, stewards, employees, agents or representatives shall instigate, support, sanction, maintain, or participate in any strike, picketing, walkout, work stoppage, slow down or other activity that interferes with the routine and timely prosecution of work at the Project site or at any other contractor’s or supplier’s facility that is necessary to performance of work at the Project site. Hand billing at the Project site during the designated lunch period and before

commencement or following conclusion of the established standard workday shall not, in itself, be deemed an activity that interferes with the routine and timely prosecution of work on the Project.

- 7.2 Should any activity prohibited by paragraph 7.1 of this Article occur, the Union shall undertake all steps reasonably necessary to promptly end such prohibited activities. No Union complying with its obligations under this Article shall be liable for acts of employees for which it has no responsibility or for the unauthorized acts of employees it represents. Any employee who participates in or encourages any activity prohibited by paragraph 7.1 shall be immediately suspended from all work on the Project for a period equal to the greater of (a) 60 days; or (b) the maximum disciplinary period allowed under the applicable collective bargaining agreement for engaging in comparable unauthorized or prohibited activity.
- 7.3 During the term of this PLA, the Prime Contractor and its Subcontractors shall not engage in any lockout at the Project site of employees covered by this Agreement.
- 7.4 Upon notification of violations of this Article, the principal officer or officers of the local area Building and Construction Trades Council, as appropriate, will immediately instruct, order and use the best efforts of his or her office to cause the affiliated union or unions to cease any violations of this Article. A Trades Council in compliance with its obligations under this paragraph shall not be liable for unauthorized acts of its affiliates.
- 7.5 In the event that activities in violation of this Article are not immediately halted through the efforts of the parties, any aggrieved party may invoke the special arbitration provisions set forth in paragraph 7.6 of this Article.
- 7.6 Upon written notice to the other involved parties by the most expeditious means available, any aggrieved party may institute the following special arbitration procedure when a breach of this Article is alleged:
 - 7.6.A The party invoking this procedure shall notify the individual designated as the Permanent Arbitrator pursuant to Article III of the nature of the alleged violation; such notice shall be by the most expeditious means possible. The initiating party may also furnish such additional factual information as may be reasonably necessary for the Permanent Arbitrator to understand the relevant circumstances. Copies of any written materials provided to the arbitrator shall also be contemporaneously provided by the most expeditious means possible to the party alleged to be in violation and to all other involved parties.
 - 7.6.B Upon receipt of said notice the Permanent Arbitrator shall set and hold a hearing within twenty-four (24) hours if it is contended the violation is ongoing, but not before twenty-four (24) hours after the written notice to all parties involved as required above.

- 7.6.C The Permanent Arbitrator shall notify the parties by facsimile or any other effective written means, of the place and time chosen by the Permanent Arbitrator for this hearing. Said hearing shall be completed in one session. A failure of any party or parties to attend said hearing shall not delay the hearing of evidence or issuance of an Award by the Permanent Arbitrator.
- 7.6.D The sole issue at the hearing shall be whether a violation of this Article has, in fact, occurred. An Award shall be issued in writing within three (3) hours after the close of the hearing, and may be issued without a written opinion. If any party desires a written opinion, one shall be issued within fifteen (15) days, but its issuance shall not delay compliance with, or enforcement of, the Award. The Permanent Arbitrator may order cessation of the violation of this Article, and such Award shall be served on all parties by hand or registered mail upon issuance.
- 7.6.E Such Award may be enforced by any court of competent jurisdiction upon the filing of the Award and such other relevant documents as may be required. Facsimile or other hardcopy written notice of the filing of such enforcement proceedings shall be given to the other relevant parties. In a proceeding to obtain a temporary order enforcing the Permanent Arbitrator's Award as issued under this Article, all parties waive the right to a hearing and agree that such proceedings may be ex parte. Such agreement does not waive any party's right to participate in a hearing for a final order of enforcement. The Court's order or orders enforcing the Permanent Arbitrator's Award shall be served on all parties by hand or by delivery to their last known address or by registered mail.
- 7.7 Individuals found to have violated the provisions of this Article are subject to immediate termination. In addition, IDOT reserves the right to terminate this PLA as to any party found to have violated the provisions of this Article.
- 7.8 Any rights created by statute or law governing arbitration proceedings inconsistent with the above procedure or which interfere with compliance therewith are hereby waived by parties to whom they accrue.
- 7.9 The fees and expenses of the Permanent Arbitrator shall be borne by the party or parties found in violation, or in the event no violation is found, such fees and expenses shall be borne by the moving party.

ARTICLE VIII – MISCELLANEOUS

- 8.1 If any Article or provision of this PLA shall be declared invalid, inoperative or unenforceable by operation of law or by final non-appealable order of any tribunal of competent jurisdiction, such provision shall be deemed severed or limited, but only to the extent required to render the remaining provisions of this PLA enforceable consistent with the intent of the parties. The remainder of this PLA or the application of such

Article or provision to persons or circumstances other than those as to which it has been held invalid, inoperative or unenforceable shall not be affected thereby.

- 8.2 The term of this PLA shall commence as of and from the date of the notice of award to the Prime Contractor and shall end upon final acceptance by IDOT of all work on the Project by the parties hereto.
- 8.3 This PLA may not be changed or modified except by the subsequent written agreement of the parties. All parties represent that they have the full legal authority to enter into this PLA. This PLA may be executed by the parties in one or more counterparts.
- 8.4 Any liability arising out of this PLA shall be several and not joint. IDOT shall not be liable to any person or other party for any violation of this PLA by any other party, and no Contractor or Union shall be liable for any violation of this PLA by any other Contractor or Union.
- 8.5 The failure or refusal of a party to exercise its rights hereunder in one or more instances shall not be deemed a waiver of any such rights in respect of a separate instance of the same or similar nature.

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Execution Page

Illinois Department of Transportation

Victor Modeer, Director of Highways

Robert Millette, Director Finance & Administration

~~Samuel Ach~~, Chief Counsel (as to form)
Ellen Schanzle-Haskins, Acting Chief Counsel

Timothy Martin, Secretary

(Date)

Building Trades Councils

(Date)

Exhibit A – Contractor Letter of Assent

(Date)

To All Parties:

In accordance with the terms and conditions of the contract for Construction Work on [], this Letter of Assent hereby confirms that the undersigned Prime Contractor or Subcontractor agrees to be bound by the terms and conditions of the Project Labor Agreement established and entered into by the Illinois Department of Transportation in connection with said Project.

It is the understanding and intent of the undersigned party that this Project Labor Agreement shall pertain only to the identified Project. In the event it is necessary for the undersigned party to become signatory to a collective bargaining agreement to which it is not otherwise a party in order that it may lawfully make certain required contributions to applicable fringe benefit funds, the undersigned party hereby expressly conditions its acceptance of and limits its participation in such collective bargaining agreement to its work on the Project.

(Authorized Company Officer)

(Company)

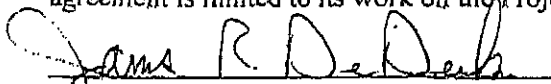
FAP Route 595
Section 1-3K
Rock Island County 122
Exhibit B - Union Letter of Assent

LABORERS LOCAL 309 3-17-05
Union Date

To All Parties:

In accordance with the terms and conditions of the contract for Construction Work on [], this Union Letter of Assent hereby confirms that the undersigned Union agrees to be bound by the terms and conditions of the Project Labor Agreement established and entered into by the Illinois Department of Transportation in connection with said Project.

It is the understanding and intent of the undersigned party that this Project Labor Agreement shall pertain only to the identified Project. In the event it is necessary for a Contractor party to this PLA to become signatory to a collective bargaining agreement to which it is not otherwise a party in order that it may lawfully make certain required contributions to applicable fringe benefit funds benefiting the undersigned Union, the undersigned party hereby expressly acknowledges that such Contractor's participation in such collective bargaining agreement is limited to its work on the Project.


(Authorized Union Representative)

FAP Route 595
Section 1-3K
Rock Island County 122
Exhibit B - Union Letter of Assent

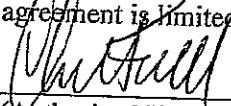
Teamster 371
Union

3/17/05
Date

To All Parties:

In accordance with the terms and conditions of the contract for Construction Work on [], this Union Letter of Assent hereby confirms that the undersigned Union agrees to be bound by the terms and conditions of the Project Labor Agreement established and entered into by the Illinois Department of Transportation in connection with said Project.

It is the understanding and intent of the undersigned party that this Project Labor Agreement shall pertain only to the identified Project. In the event it is necessary for a Contractor party to this PLA to become signatory to a collective bargaining agreement to which it is not otherwise a party in order that it may lawfully make certain required contributions to applicable fringe benefit funds benefiting the undersigned Union, the undersigned party hereby expressly acknowledges that such Contractor's participation in such collective bargaining agreement is limited to its work on the Project.



(Authorized Union Representative)

FAP Route 595
Section 1-3K
Rock Island County 122
Exhibit B – Union Letter of Assent

Cement Masons Local
Union

3-15-05
Date

To All Parties:

In accordance with the terms and conditions of the contract for Construction Work on [], this Union Letter of Assent hereby confirms that the undersigned Union agrees to be bound by the terms and conditions of the Project Labor Agreement established and entered into by the Illinois Department of Transportation in connection with said Project.

It is the understanding and intent of the undersigned party that this Project Labor Agreement shall pertain only to the identified Project. In the event it is necessary for a Contractor party to this PLA to become signatory to a collective bargaining agreement to which it is not otherwise a party in order that it may lawfully make certain required contributions to applicable fringe benefit funds benefiting the undersigned Union, the undersigned party hereby expressly acknowledges that such Contractor's participation in such collective bargaining agreement is limited to its work on the Project.

Mark A. Schell

(Authorized Union Representative)

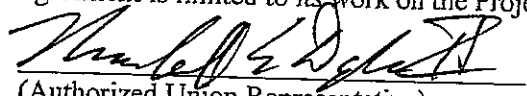
FAP Route 595
Section 1-3K
Rock Island County 122
Exhibit B – Union Letter of Assent

IUOE Local 150
Union

3/15/05
Date

To All Parties:

In accordance with the terms and conditions of the contract for Construction Work on [], this Union Letter of Assent hereby confirms that the undersigned Union agrees to be bound by the terms and conditions of the Project Labor Agreement established and entered into by the Illinois Department of Transportation in connection with said Project. It is the understanding and intent of the undersigned party that this Project Labor Agreement shall pertain only to the identified Project. In the event it is necessary for a Contractor party to this PLA to become signatory to a collective bargaining agreement to which it is not otherwise a party in order that it may lawfully make certain required contributions to applicable fringe benefit funds benefiting the undersigned Union, the undersigned party hereby expressly acknowledges that such Contractor's participation in such collective bargaining agreement is limited to its work on the Project.


(Authorized Union Representative)

FAP Route 595
Section 1-3K
Rock Island County 122
Exhibit B – Union Letter of Assent

IBEW Local Union #145
Union

3/15/2005

Date

To All Parties:

In accordance with the terms and conditions of the contract for Construction Work on [], this Union Letter of Assent hereby confirms that the undersigned Union agrees to be bound by the terms and conditions of the Project Labor Agreement established and entered into by the Illinois Department of Transportation in connection with said Project.

It is the understanding and intent of the undersigned party that this Project Labor Agreement shall pertain only to the identified Project. In the event it is necessary for a Contractor party to this PLA to become signatory to a collective bargaining agreement to which it is not otherwise a party in order that it may lawfully make certain required contributions to applicable fringe benefit funds benefiting the undersigned Union, the undersigned party hereby expressly acknowledges that such Contractor's participation in such collective bargaining agreement is limited to its work on the Project.

Scott A. Verschoor
(Authorized Union Representative)

DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION (BDE)

Effective: September 1, 2000

Revised: June 1, 2004

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. 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. 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.

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 federally-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the 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 8.00 % 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.state.il.us.

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 nonresponsive.

- (a) In order to assure the timely award of the contract, the as-read low bidder must submit a Disadvantaged Business Utilization Plan on Department form SBE 2026 within seven (7) working days after the date of letting. To meet the seven (7) day requirement, the bidder may send the Plan by certified mail or delivery service within the seven (7) 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 as-read low bidder to ensure that the postmark or receipt date is affixed within the seven (7) 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 (7) day submittal requirement, and the bid will be declared nonresponsive. In the event the bid is declared nonresponsive 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 (5) 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% 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% 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% 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% goal credit for trucking participation provided the DBE is responsible for the management and supervision of the entire trucking operation for which it is responsible. At least one truck owned, operated, licensed and insured by the DBE must be used on the contract. Credit will be given for the full value of all such DBE trucks operated using DBE employed drivers. Goal credit will be limited to the value of the reasonable fee or commission received by the DBE if trucks are leased from a non-DBE company.
- (e) DBE as a material supplier:
 - (1) 60% goal credit for the cost of the materials or supplies purchased from a DBE regular dealer.
 - (2) 100% goal credit for the cost of materials or supplies obtained from a DBE manufacturer.
 - (3) 100% 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 prime contractor to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Prime contractors 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 contractor'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 contractor'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 Contractor 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 (5) 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 (5) 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 (10) 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 nonresponsive.

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 (30) 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 District 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.

80029



Route FAP 595
Section 1-3-K
County ROCK ISLAND

Marked IL 5
Project No. _____

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.

Gregory L Mounts
Signature

12/23/04
Date

DEP DIRECTOR / R-2
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):

Construction activities include the construction of the John Deere Road/52nd Ave interchange which consists of the construction of one overpass and three box culverts. Also included in this project is the reconstruction of 44th Street in Rock Island to provide access due to the interchange construction.

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): This project will be constructed in 4 main stages as shown in the "staging plans".

During each stage, the sequence of events are as follows: clearing, excavation and embankment, grading and paving.

c. The total area of the construction site is estimated to be 58 acres.

The total area of the site that it is estimated will be disturbed by excavation, grading or other activities is 54 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):

Perimeter erosion control shall be placed prior to beginning earthwork. As earth excavation and embankment are being completed, the Contractor shall place ditch checks, inlet and pipe protection, erosion control blanket, and seeding as stages of the project are completed. Perimeter erosion barrier will be installed at additional locations as the project progresses. The Contractor will seed disturbed areas with temporary or permanent seeding as shown on the Erosion Control Plans or as directed by the Engineer.

(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):

The Contractor shall place perimeter erosion barrier in areas designated on the Erosion Control Plans prior to commencing construction activities. Ditch checks, inlet protection and erosion control blanket or stone riprap shall be placed at the end of earth-disturbing activities.

Implementation of additional structural practices shall be at the direction of the Resident Engineer.

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):

Stone riprap or Turf Reinforcement Mat shall be placed at culvert and waterway bridge outlets as shown on the plan sheets or as directed by the Engineer.

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:

Refer to the erosion control plan for further details.

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):

The Contractor will inspect weekly, or after any rainfall event, all erosion control measures in place. If any of the erosion control measures are found to be deficient, the Contractor will immediately repair said measures to applicable State Standards as shown on the Erosion Control Plan or as directed by the Engineer.

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).

N/A



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 FAP 595

Marked IL 5

Section 1-3-K

Project No. _____

County ROCK ISLAND

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



DEPARTMENT OF THE ARMY
ROCK ISLAND DISTRICT, CORPS OF ENGINEERS
CLOCK TOWER BUILDING - P.O. BOX 2004
ROCK ISLAND, ILLINOIS 61204-2004

REPLY TO
ATTENTION OF

<http://www.mvr.usace.army.mil>

December 3, 2004

Operations Division

SUBJECT: CEMVR-OD-P-402240-2

Mr. Gregory L. Mounts
District Engineer
Illinois Department of Transportation
Division of Highways, District 2
819 Depot Avenue
Dixon, Illinois 61021-3500

| TO | COPY |
|-----------------------------------|-------------------------|
| | PROGRAM DEVELOPMENT |
| | PROJECT IMPLEMENTATION |
| | OPERATIONS |
| | ADMINISTRATIVE SERVICES |
| | LOCAL ROADS |
| DEC - 6 2004 | |
| DISTRICT ENGINEER: | |
| Center with District Engineer | |
| Correspondence for DE signature | |
| Correspondence for your signature | |
| Date: | |
| Tickler | |

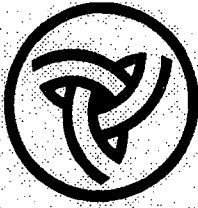
Dear Mr. Mounts:

Your Department of the Army (DA) permit number 402240-1 is hereby modified to incorporate the wetland mitigation changes as outlined in your letter dated October 20, 2004. Your letter and attached plans dated October 20-, 2004 is considered part of your DA permit. The remaining original conditions, to which your DA permit was issued and our previous modification letter (Subject CEMVR-OD-P-402240-1) dated June 1, 2004, remain in full force and effect.

Should you have any questions pertaining to your revised permit, please contact our Regulatory Branch, Operations Division by letter, or telephone me at 309/794-5380.

Sincerely,

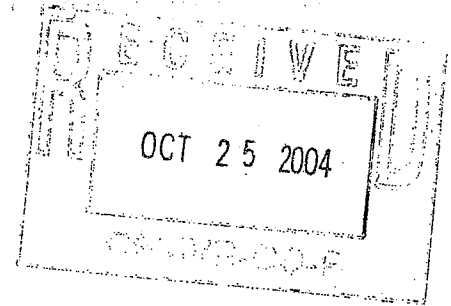
John G. Betker
Project Manager
Regulatory Branch



Illinois Department of Transportation

Division of Highways / District 2
819 Depot Avenue / Dixon, Illinois / 61021-3500
Telephone 815/284-2271

PROGRAM DEVELOPMENT
STUDIES & PLANS
FAU Route 5822
Section 1-3
Milan Beltway Extension
Rock Island County
Job No. P-92-096-84



October 20, 2004

Mr. John Betker, Project Manager
Regulatory Branch
US Army Corps of Engineers
Clock Tower Building
P. O. Box 2004
Rock Island, IL 61204-2004

Re: Permit Number CEMVR-OD-P-402240

Dear Mr. Betker:

We are writing to ask for a Modification Request to the Permit for the Milan Beltway Extension project described above. The first two phases of this project are now under construction. The Consultant has been working on designing final contract plans for the third phase of this project. The third phase includes building the mitigation sites on the Rock Island (north) side. We would like to make some changes in the Wetland Compensation Plan as follows:

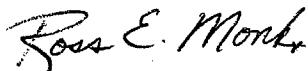
1. The wetland creation area located along the west ditch (labeled Area A on the plan sheet) is being deleted. It was first determined that heavy rip rap would have to be installed along this ditch all the way through the existing wetland. The designers were informed that this would be filling in a wetland and was not permitted. Our Hydraulics Unit researched it and found a Turf Reinforcement Mat (TRM) that would hold the soil from erosion. We were then planning to contour the upper end of the "ditch" to a wetland. It was to be a 110 foot wide flat ditch. I discussed this with Patrick Malone, IDNR, and he said that he would not permit wetland credits for an area that was lined with a mat. Therefore, we have decided to drop this portion of the mitigation site from the plans and compensate this loss with off-site mitigation. This would cause a loss of 2.29 acres of on-site wetland creation. These acres were to mitigate an impact of 1.53 acres at a 1:5:1 ratio. Therefore, we are now proposing to mitigate this at a 2:1 ratio for off-site mitigation. This would add 3.06 acres of mitigation to our Green Rock Mitigation Site. No riprap will be placed in this area or the existing wetlands closer to the river.
2. The area of wetland creation/restoration in the interchange (labeled Area B) has been determined to be smaller than originally calculated. This means that the temporary impact calculation has changed. In the permit, we were planning to mitigate 4.76 acres of temporary impacts. We will now mitigate 3.62 acres of temporary impacts on-site. Therefore, there is a loss of 1.14 acre of on-site mitigation for temporary impacts. This was calculated at a 1:5:1 ratio for on-site mitigation for a loss of 0.76 acre. We are now proposing to mitigate this loss at the off-site ratio of 2:1. This will require an additional 1.52 acres of mitigation to be added to our Green Rock Site.

3. The two southern wetland areas in the Rock Island Site (labeled Areas C and D) have a 57 foot wide Utility Easement near their southern edge. We are restricted to not allow trees to grow in this area. We are proposing to plant this easement area and the remaining areas south of the easement area into a grass/sedge meadow. We will use Seeding Class 4B (Wetland Grass and Sedge Mixture) to seed the area and also install Cordgrass plugs in the area. We have written the utility company requesting an agreement for us to manage the area as a wetland, and they cannot mow or use herbicides as requested by IDNR. Therefore, about 1.31 acre of this area will be Grass/Sedge Meadow instead of wetland forest.
4. Also, there will be a change in the Green Rock Mitigation Site, located north of I-280 (our off-site mitigation area). This site is being graded at the present time. During construction we discovered that there is a gas line easement located in the easternmost field. This easement runs north-south along the tree line between the two fields. Then it cuts across the field (about 300 feet south of the tree line) to the east to go under the Green River (as shown on the attached plan sheet). We have been informed that this easement has two high pressure gas lines and soil cannot be removed from above the pipeline. Therefore, we will have to leave a 70 foot wide easement area around the pipeline. This easement area will be left at the existing elevation ranging from 567.5 feet to 569.5 feet. The rest of the mitigation area will be at elevation 567.5 feet. This easement area will be seeded with the IDOT Class 7 (Special) Mix (which includes Kentucky Bluegrass, Annual Rye, and Oats), and not be included in our mitigation acreage. This easement area is 1.55 acres in size. This does not affect our mitigation for the Milan Beltway project. It will only decrease our amount of mitigation area for future projects. Therefore, we will have approximately 5.75 acres of remaining mitigation area which will be graded with this project. This remaining area will be planted with trees when the need arises for future projects.

Enclosed are plan sheets showing the two mitigation areas and a table summarizing the changes in the permit. If you have any questions please call Cassandra Rodgers in District 2 at (815) 284-5455.

Sincerely,

Gregory L. Mounts
District Engineer



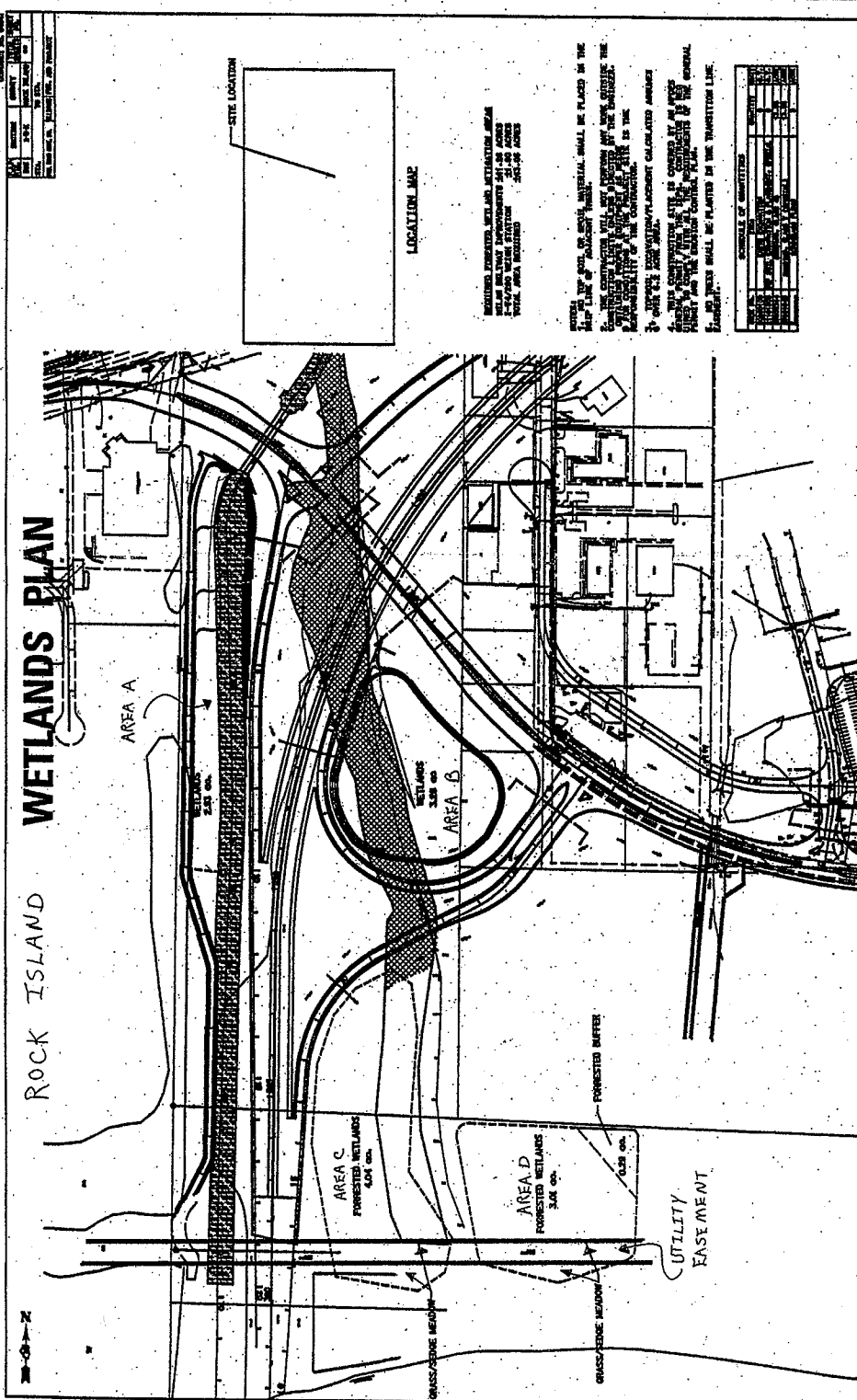
By: Ross E. Monk
Engineer of Program Development

c: Patrick Malone, IDNR
Thomas Brooks, BD&E
William McWethy, Hydraulics Unit
Becky Marruffo, Plans
Richard Maggi, Operations

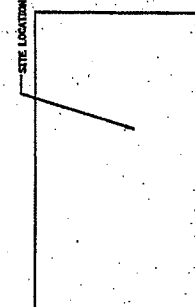
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Enclosures

MILAN BELTWAY

ROCK ISLAND WETLANDS PLAN



| NO. | DESCRIPTION | DATE | BY |
|-----|-------------------|------------|-----|
| 1 | ISSUED FOR PERMIT | 08/14/2004 | ... |
| 2 | ... | ... | ... |
| 3 | ... | ... | ... |
| 4 | ... | ... | ... |
| 5 | ... | ... | ... |



LOCATION MAP

MINIMUM FORESTED WETLAND RETENTION AREA
 FORESTED WETLANDS: 21.48 ACRES
 FORESTED BUFFER: 2.14 ACRES
 TOTAL AREA REQUIRED: 23.62 ACRES

1. THE SITE SHALL BE PLACED IN THE 100' LINE OF PROTECTIVE BUFFER.
2. THE SITE SHALL BE PLACED IN THE 100' LINE OF PROTECTIVE BUFFER.
3. THE SITE SHALL BE PLACED IN THE 100' LINE OF PROTECTIVE BUFFER.
4. THE SITE SHALL BE PLACED IN THE 100' LINE OF PROTECTIVE BUFFER.
5. THE SITE SHALL BE PLACED IN THE 100' LINE OF PROTECTIVE BUFFER.

| NO. | DESCRIPTION | DATE | BY |
|-----|-------------|------|-----|
| 1 | ... | ... | ... |
| 2 | ... | ... | ... |
| 3 | ... | ... | ... |
| 4 | ... | ... | ... |
| 5 | ... | ... | ... |

WETLANDS PLAN

... 007500NET.dwg 08/14/2004 03:23:25 PM

MILAN BELTWAY WETLAND MITIGATION
(acres)

| | Create Wetland On-Site | Enhance Farmed Wetland On-Site | Restore Temporary Impacts On-Site | Create Upland Forested Buffer | Preserve On-Site Wetlands | Create Wetland Off-Site | Total |
|----------------------------------------------------------------|------------------------|--------------------------------|-----------------------------------|-------------------------------|-------------------------------------|-------------------------|--------------|
| 404 Permit Requirement | 13.47 | 14.57 | 4.76 | 0.29 | -- | 41.26 | 74.35 |
| <u>Rock Island Sites</u> Original Dist. Plan (all forested) | (4.06) | (4.83) | (4.76) | (0.29) | (1.87) | -- | |
| Addendum Plan Forested | 1.77 | 5.74 | 3.62 | 0.29 | 1.87 | 4.58 | |
| Grass/Sedge Meadow | | 1.31 | -- | -- | -- | -- | |
| <u>Milan Site</u> (Airport Rd.) | 9.41 | 9.74 | -- | -- | 0.8 | -- | |
| <u>Green Rock Site</u> | -- | -- | -- | -- | -- | 41.26 | |
| <u>Total Mitigated</u> | 11.18 forested | 15.48 forested 1.31 meadow | 3.62 forested | 0.29 forested | 1.87 forested 0.8 aquatic emerg. | 41.26 forested | |
| Grand Total | 11.18 | 16.79 | 3.62 | 0.29 | 2.67 | 45.84 | 77.72 |
| Difference From Permit | -2.29 | +2.22 | -1.14 | -- | -- | +4.58 | |

CEMVR-OD-P-402240-2
Sheet 3 of 3
Data Sheet

SLIPFORMED PARAPETS

Effective June 11, 2004

The slipforming option, as stated in Article 503.17(e)(1) of the Standard Specifications will not be allowed on this project.

PAVEMENT THICKNESS DETERMINATION FOR PAYMENT (BDE)

Effective: April 1, 1999

Revised: January 1, 2004

Description. This work shall consist of determining pavement thickness for payment for full depth bituminous concrete and all pcc pavements. Pavement pay items that individually contain at least 840 sq m (1000 sq yd) of contiguous pavement will be subject to this Special Provision with the following exclusions: temporary pavements; variable width pavement; radius returns and side streets less than 125 m (400 ft) in length; and turn lanes of constant width less than 125 m (400 ft) in length. The areas of pavement excluded from the pay adjustment as described in this Special Provision will be cored according to Article 407.10 of the Standard Specifications. Temporary pavements are defined as pavements constructed and removed under this contract.

Materials. Rapid set materials shall be obtained from the Department's approved list of Packaged, Dry, Rapid Hardening Cementitious Materials For Concrete Repairs. Coarse aggregate may be added to the mortar if allowed by the manufacturer's instructions on the package. Mixing shall be according to the manufacture's recommendations.

Equipment. Cores shall be taken utilizing an approved coring machine. The cores shall have a diameter of 50 mm (2 in.). The cores shall be measured utilizing an approved measuring device.

CONSTRUCTION REQUIREMENTS

Tolerance in Thickness. Determination of the pavement thickness shall be performed after the pavement surface tests and all corrective grinding are complete according to Article 407.09 of the Standard Specifications. Adjustments made in the contract unit price for pavement thickness will be in addition to and independent of those made for the Profile Index.

The pavement will be divided into approximately equal lots of not more than 1500 m (5000 ft) in length. When the length of a continuous strip of pavement is less than 1500 m (5000 ft), these short lengths of pavement, ramps, turn lanes, and other short sections of continuous pavement shall be grouped together to form lots of approximately 1500 m (5000 ft) in length. Short segments between structures will be measured continuously with the structure segments omitted. Each lot will be subdivided into ten equal sublots. The width of a subplot and lot will be the width from the pavement edge to the adjacent lane line, from one lane line to the next, or between pavement edges for single-lane pavements.

Fifty millimeter (Two inch) cores shall be taken from the pavement by the Contractor at random locations selected by the Engineer. When computing the thickness of a lot, one core will be taken per subplot. Core locations will be specified by the Engineer prior to beginning the coring operations.

The Contractor and the Engineer shall witness the coring operations, the measurement, and recording of the cores. Core measurements will be determined immediately upon removal from the core bit and prior to moving to the next core location. Upon concurrence of the length, the core samples may be discarded.

Patching Holes. Upon completion of coring, all core holes shall be filled with a rapid set mortar or concrete. Only enough water to permit placement and consolidation by rodding shall be used, and the material shall be struck-off flush with the adjacent pavement.

For a rapid set mortar mixture, one part packaged rapid set cement shall be combined with two parts fine aggregate, by volume; or a packaged rapid set mortar shall be used. For a rapid set concrete mixture, a packaged rapid set mortar shall be combined with coarse aggregate according to the manufacturer's instructions or a packaged rapid set concrete shall be used. Mixing of a rapid set mortar or concrete shall be according to the manufacturer's instructions.

Deficient Sublot. When the thickness of the core in a sublot is deficient by more than ten percent of plan thickness, the Contractor will have the option of taking three additional cores selected at random by the Engineer within the same sublot at the Contractor's expense. The thickness of the additional three cores will be averaged with the original core thickness. When the average thickness shows the sublot to be deficient by ten percent or less, no additional action is necessary. If the Contractor chooses not to take additional cores, the pavement in the sublot shall be removed and replaced at the Contractor's expense. When additional cores are taken and the average thickness of the additional cores show the sublot to be deficient by more than ten percent, the pavement in that sublot shall be removed and replaced at the Contractor's expense. When requested in writing by the Contractor, the Engineer, at his/her option, may permit in writing such thin pavement to remain in place. For Bituminous Concrete Pavement (Full Depth) allowed to remain in place, additional lift(s) may be placed, at the Contractor's expense, to bring the deficient pavement to plan thickness when the Engineer determines grade control conditions will permit such lift(s). The material thickness(es), areas to be overlaid, and method of placement used for additional lift(s) will be approved by the Engineer. When the thin pavement is removed and replaced or additional lifts are placed, the replacement pavement will be retested for thickness at the Contractor's expense. When the thin pavement is left in place and no additional lift(s) are placed, no payment will be made for the deficient pavement sublot. The thickness of the original core taken in the sublot will be used in determining the payment for the entire lot and no adjustment to the pay factor will be made for any corrective action taken.

Deficient Lot. After analyzing the cores, the Percent Within Limits will be calculated. A lot of pavement represented by the Percent Within Limits (PWL) of 60 percent or less, shall be removed and replaced at the Contractor's expense. When requested in writing by the Contractor, the Engineer, at his/her option, may permit in writing such pavement to remain in place. For Bituminous Concrete Pavement (Full Depth), allowed to remain in place, additional lift(s) may be placed, at the Contractor's expense, to bring the deficient pavement to plan thickness when the Engineer determines grade control conditions will permit such lift(s). The material, thickness(es), areas to be overlaid and method of placement used for the additional lift(s) will be approved by the Engineer. After either corrective action, the Contractor shall core the lot according to the "Coring Procedures" at no additional cost to the Department. The PWL will then be recalculated for the lot, however, the pay factor for the lot will be a maximum of 100 percent. When requested in writing by the Contractor, the Engineer, at his/her option, may permit in writing, the lot to remain in place. When the lot is left in place and no additional lifts are placed the pay factor for the lot will be based on the calculated PWL.

Right of Discovery. When the Engineer has reason to believe the random core selection process will not accurately represent the true conditions of the work, he/she may order cores in addition to those specified. The additional cores shall be taken at specific locations determined by the Engineer. The Engineer will provide notice to the Contractor containing an explanation of the reasons for his/her action. These additional cores and locations will be determined prior to commencement of coring operations. When the additional cores show the pavement to be deficient by more than ten percent, additional cores shall be taken at locations determined by the Engineer to determine the limits of the deficient pavement area. The deficient pavement area will be defined as the area between two acceptable cores. An acceptable core is a core with a thickness of 90 percent or more of plan thickness. The defined pavement area shall be removed and replaced at the Contractor's expense. When requested by the Contractor, the Engineer, at his/her option, may permit in writing such thin pavement to remain in place. On Bituminous Concrete Pavement (Full Depth) allowed to remain in place, additional lift(s) may be placed to bring the deficient pavement to plan thickness when the Engineer determines that grade control conditions will permit such lift(s). The material, thickness(es), areas to be overlaid and method of placement for the additional lift(s) will be approved by the Engineer. When the thin pavement is removed and replaced or additional lifts are placed, the replacement pavement will be retested for thickness at the Contractor's expense. When the thin pavement is left in place and no additional lift(s) are placed, no payment will be made for the deficient pavement. When the additional cores show the pavement to be deficient by ten percent or less the additional cores will be paid for according to Article 109.04. When the additional cores show the pavement to be deficient by more than ten percent the additional cores taken in the deficient area shall be at the Contractor's expense.

Profile Index Adjustment. After any section of pavement is removed and replaced or any additional lifts are added, the corrected areas shall be tested for pavement smoothness and any necessary Profile Index adjustments and/or corrections will be made based on these final profile readings. Such surface testing shall be performed at the Contractor's expense.

Core Analysis. Cores will be analyzed according to the following:

(a) Definition:

- x_i = Individual values (core lengths) under consideration
- n = Number of individual values under consideration
(10 per lot)
- \bar{x} = Average of the values under consideration
- LSL = Lower Specification Limit (LSL = 0.98 plan thickness for pavement)
- Q_L = Lower Quality Index
- S = Sample Standard Deviation
- PWL = Percent Within Limits

Determine \bar{x} for the lot to the nearest two decimal places.

Compute the sample standard deviation to the nearest three decimal places using:

$$S = \sqrt{\frac{\sum (x_i - \bar{x})^2}{n-1}} \quad \text{where} \quad \sum (x_i - \bar{x})^2 = (x_1 - \bar{x})^2 + (x_2 - \bar{x})^2 + \dots + (x_{10} - \bar{x})^2$$

Determine the Lower Quality Index to the nearest two decimal places using:

$$Q_L = \frac{(\bar{x} - LSL)}{S}$$

Determine the percentage that will fall above the Lower Specification Limit (LSL) by going to the attached Table and utilizing calculated Q_L . Read the appropriate PWL value from the Table. For Q_L values less than zero the value shown in the table must be subtracted from 100 to obtain PWL.

Pay Adjustment. The following pay adjustment equation will be used to determine (to the nearest two decimal places) the pay factor for each lot.

Pay Factor (PF) in percent = 55 + 0.5 (PWL)

If \bar{x} for a lot is less than the plan thickness, the maximum pay factor for that lot will be 100 percent.

Total Payment. The payment will be based on the appropriate pay items in Sections 407, 420, and 421. The final payment will be adjusted according to the following equation:

$$\text{Total Payment} = \text{TPF}[\text{CUP} (\text{TOTPAVT} - \text{DEFFPAVT})]$$

TPF = Total Pay Factor

CUP = Contract Unit Price

TOTPAVT = Area of Pavement Subject to Coring

DEFFPAVT = Area of Deficient Pavement

The TPF for the entire pavement will be the average of the PF for all the lots, however, not more than 102 percent of plan quantity will be paid.

Deficient pavement is defined as an area of pavement represented by a subplot deficient by more than 10 percent which is left in place with no additional thickness added.

All work involved in determining the total payment will be included in the contract unit prices of the pay items involved.

| Percent Within Limits | | | | | | | |
|----------------------------------|-----------------------------|----------------------------------|-----------------------------|----------------------------------|-----------------------------|----------------------------------|-----------------------------|
| Quality Index (Q _L)* | Percent Within Limits (PWL) | Quality Index (Q _L)* | Percent Within Limits (PWL) | Quality Index (Q _L)* | Percent Within Limits (PWL) | Quality Index (Q _L)* | Percent Within Limits (PWL) |
| 0.00 | 50.00 | 0.40 | 65.07 | 0.80 | 78.43 | 1.20 | 88.76 |
| 0.01 | 50.38 | 0.41 | 65.43 | 0.81 | 78.72 | 1.21 | 88.97 |
| 0.02 | 50.77 | 0.42 | 65.79 | 0.82 | 79.02 | 1.22 | 89.17 |
| 0.03 | 51.15 | 0.43 | 66.15 | 0.83 | 79.31 | 1.23 | 89.38 |
| 0.04 | 51.54 | 0.44 | 66.51 | 0.84 | 79.61 | 1.24 | 89.58 |
| 0.05 | 51.92 | 0.45 | 66.87 | 0.85 | 79.90 | 1.25 | 89.79 |
| 0.06 | 52.30 | 0.46 | 67.22 | 0.86 | 80.19 | 1.26 | 89.99 |
| 0.07 | 52.69 | 0.47 | 67.57 | 0.87 | 80.47 | 1.27 | 90.19 |
| 0.08 | 53.07 | 0.48 | 67.93 | 0.88 | 80.76 | 1.28 | 90.38 |
| 0.09 | 53.46 | 0.49 | 68.28 | 0.89 | 81.04 | 1.29 | 90.58 |
| 0.10 | 53.84 | 0.50 | 68.63 | 0.90 | 81.33 | 1.30 | 90.78 |
| 0.11 | 54.22 | 0.51 | 68.98 | 0.91 | 81.61 | 1.31 | 90.96 |
| 0.12 | 54.60 | 0.52 | 69.32 | 0.92 | 81.88 | 1.32 | 91.15 |
| 0.13 | 54.99 | 0.53 | 69.67 | 0.93 | 82.16 | 1.33 | 91.33 |
| 0.14 | 55.37 | 0.54 | 70.01 | 0.94 | 82.43 | 1.34 | 91.52 |
| 0.15 | 55.75 | 0.55 | 70.36 | 0.95 | 82.71 | 1.35 | 91.70 |
| 0.16 | 56.13 | 0.56 | 70.70 | 0.96 | 82.97 | 1.36 | 91.87 |
| 0.17 | 56.51 | 0.57 | 71.04 | 0.97 | 83.24 | 1.37 | 92.04 |
| 0.18 | 56.89 | 0.58 | 71.38 | 0.98 | 83.50 | 1.38 | 92.22 |
| 0.19 | 57.27 | 0.59 | 71.72 | 0.99 | 83.77 | 1.39 | 92.39 |
| 0.20 | 57.65 | 0.60 | 72.06 | 1.00 | 84.03 | 1.40 | 92.56 |
| 0.21 | 58.03 | 0.61 | 72.39 | 1.01 | 84.28 | 1.41 | 92.72 |
| 0.22 | 58.40 | 0.62 | 72.72 | 1.02 | 84.53 | 1.42 | 92.88 |
| 0.23 | 58.78 | 0.63 | 73.06 | 1.03 | 84.79 | 1.43 | 93.05 |
| 0.24 | 59.15 | 0.64 | 73.39 | 1.04 | 85.04 | 1.44 | 93.21 |
| 0.25 | 59.53 | 0.65 | 73.72 | 1.05 | 85.29 | 1.45 | 93.37 |
| 0.26 | 59.90 | 0.66 | 74.04 | 1.06 | 85.53 | 1.46 | 93.52 |
| 0.27 | 60.28 | 0.67 | 74.36 | 1.07 | 85.77 | 1.47 | 93.67 |
| 0.28 | 60.65 | 0.68 | 74.69 | 1.08 | 86.02 | 1.48 | 93.83 |
| 0.29 | 61.03 | 0.69 | 75.01 | 1.09 | 86.26 | 1.49 | 93.98 |
| 0.30 | 61.40 | 0.70 | 75.33 | 1.10 | 86.50 | 1.50 | 94.13 |
| 0.31 | 61.77 | 0.71 | 75.64 | 1.11 | 86.73 | 1.51 | 94.27 |
| 0.32 | 62.14 | 0.72 | 75.96 | 1.12 | 86.96 | 1.52 | 94.41 |
| 0.33 | 62.51 | 0.73 | 76.27 | 1.13 | 87.20 | 1.53 | 94.54 |
| 0.34 | 62.88 | 0.74 | 76.59 | 1.14 | 87.43 | 1.54 | 94.68 |
| 0.35 | 63.25 | 0.75 | 76.90 | 1.15 | 87.66 | 1.55 | 94.82 |
| 0.36 | 63.61 | 0.76 | 77.21 | 1.16 | 87.88 | 1.56 | 94.95 |
| 0.37 | 63.98 | 0.77 | 77.51 | 1.17 | 88.10 | 1.57 | 95.08 |
| 0.38 | 64.34 | 0.78 | 77.82 | 1.18 | 88.32 | 1.58 | 95.20 |
| 0.39 | 64.71 | 0.79 | 78.12 | 1.19 | 88.54 | 1.59 | 95.33 |

*For Q_L values less than zero, subtract the table value from 100 to obtain PWL

| Percent Within Limits (continued) | | | | | |
|-----------------------------------|-----------------------------|----------------------------------|-----------------------------|----------------------------------|-----------------------------|
| Quality Index (Q _L)* | Percent Within Limits (PWL) | Quality Index (Q _L)* | Percent Within Limits (PWL) | Quality Index (Q _L)* | Percent Within Limits (PWL) |
| 1.60 | 95.46 | 2.00 | 98.83 | 2.40 | 99.89 |
| 1.61 | 95.58 | 2.01 | 98.88 | 2.41 | 99.90 |
| 1.62 | 95.70 | 2.02 | 98.92 | 2.42 | 99.91 |
| 1.63 | 95.81 | 2.03 | 98.97 | 2.43 | 99.91 |
| 1.64 | 95.93 | 2.04 | 99.01 | 2.44 | 99.92 |
| 1.65 | 96.05 | 2.05 | 99.06 | 2.45 | 99.93 |
| 1.66 | 96.16 | 2.06 | 99.10 | 2.46 | 99.94 |
| 1.67 | 96.27 | 2.07 | 99.14 | 2.47 | 99.94 |
| 1.68 | 96.37 | 2.08 | 99.18 | 2.48 | 99.95 |
| 1.69 | 96.48 | 2.09 | 99.22 | 2.49 | 99.95 |
| 1.70 | 96.59 | 2.10 | 99.26 | 2.50 | 99.96 |
| 1.71 | 96.69 | 2.11 | 99.29 | 2.51 | 99.96 |
| 1.72 | 96.78 | 2.12 | 99.32 | 2.52 | 99.97 |
| 1.73 | 96.88 | 2.13 | 99.36 | 2.53 | 99.97 |
| 1.74 | 96.97 | 2.14 | 99.39 | 2.54 | 99.98 |
| 1.75 | 97.07 | 2.15 | 99.42 | 2.55 | 99.98 |
| 1.76 | 97.16 | 2.16 | 99.45 | 2.56 | 99.98 |
| 1.77 | 97.25 | 2.17 | 99.48 | 2.57 | 99.98 |
| 1.78 | 97.33 | 2.18 | 99.50 | 2.58 | 99.99 |
| 1.79 | 97.42 | 2.19 | 99.53 | 2.59 | 99.99 |
| 1.80 | 97.51 | 2.20 | 99.56 | 2.60 | 99.99 |
| 1.81 | 97.59 | 2.21 | 99.58 | 2.61 | 99.99 |
| 1.82 | 97.67 | 2.22 | 99.61 | 2.62 | 99.99 |
| 1.83 | 97.75 | 2.23 | 99.63 | 2.63 | 100.00 |
| 1.84 | 97.83 | 2.22 | 99.66 | 2.64 | 100.00 |
| 1.85 | 97.91 | 2.25 | 99.68 | ≥ 2.65 | 100.00 |
| 1.86 | 97.98 | 2.26 | 99.70 | | |
| 1.87 | 98.05 | 2.27 | 99.72 | | |
| 1.88 | 98.11 | 2.28 | 99.73 | | |
| 1.89 | 98.18 | 2.29 | 99.75 | | |
| 1.90 | 98.25 | 2.30 | 99.77 | | |
| 1.91 | 98.31 | 2.31 | 99.78 | | |
| 1.92 | 98.37 | 2.32 | 99.80 | | |
| 1.93 | 98.44 | 2.33 | 99.81 | | |
| 1.94 | 98.50 | 2.34 | 99.83 | | |
| 1.95 | 98.56 | 2.35 | 99.84 | | |
| 1.96 | 98.61 | 2.36 | 99.85 | | |
| 1.97 | 98.67 | 2.37 | 99.86 | | |
| 1.98 | 98.72 | 2.38 | 99.87 | | |
| 1.99 | 98.78 | 2.39 | 99.88 | | |

*For Q_L values less than zero, subtract the table value from 100 to obtain PWL

53600

ILLINOIS DEPARTMENT OF LABOR

PREVAILING WAGES FOR ROCK ISLAND COUNTY EFFECTIVE FEBRUARY 2005

The Prevailing rates of wages are included in the Contract proposals which are subject to Check Sheet #5 of the Supplemental Specifications and Recurring Special Provisions. The rates have been ascertained and certified by the Illinois Department of Labor for the locality in which the work is to be performed and for each craft or type of work or mechanic needed to execute the work of the Contract. As required by Prevailing Wage Act (820 ILCS 130/0.01, et seq.) and Check Sheet #5 of the Contract, not less than the rates of wages ascertained by the Illinois Department of Labor and as revised during the performance of a Contract shall be paid to all laborers, workers and mechanics performing work under the Contract. Post the scale of wages in a prominent and easily accessible place at the site of work.

If the Illinois Department of Labor revises the prevailing rates of wages to be paid as listed in the specification of rates, the contractor shall post the revised rates of wages and shall pay not less than the revised rates of wages. Current wage rate information shall be obtained by visiting the Illinois Department of Labor web site at <http://www.state.il.us/agency/idol/> or by calling 312-793-2814. It is the responsibility of the contractor to review the rates applicable to the work of the contract at regular intervals in order to insure the timely payment of current rates. Provision of this information to the contractor by means of the Illinois Department of Labor web site satisfies the notification of revisions by the Department to the contractor pursuant to the Act, and the contractor agrees that no additional notice is required. The contractor shall notify each of its subcontractors of the revised rates of wages.

Rock Island County Prevailing Wage for February 2005

| Trade Name | RG | TYP | C | Base | FRMAN | *M-F>8 | OSA | OSH | H/W | Pensn | Vac | Trng |
|----------------------|----|-------|---|--------|--------|--------|-----|-----|-------|-------|-------|-------|
| ASBESTOS ABT-GEN | | BLD | | 21.710 | 22.210 | 1.5 | 1.5 | 2.0 | 4.600 | 3.750 | 0.000 | 0.500 |
| ASBESTOS ABT-GEN | | HWY | | 21.910 | 22.910 | 1.5 | 1.5 | 2.0 | 4.600 | 3.750 | 0.000 | 0.500 |
| ASBESTOS ABT-MEC | | BLD | | 18.260 | 19.010 | 1.5 | 1.5 | 2.0 | 3.750 | 1.650 | 0.000 | 0.000 |
| BOILERMAKER | | BLD | | 28.970 | 31.970 | 2.0 | 2.0 | 2.0 | 7.020 | 6.600 | 0.000 | 0.210 |
| BRICK MASON | | BLD | | 23.060 | 24.310 | 1.5 | 1.5 | 2.0 | 6.500 | 4.000 | 0.000 | 0.310 |
| CARPENTER | | BLD | | 24.000 | 25.200 | 1.5 | 1.5 | 2.0 | 5.140 | 4.470 | 0.000 | 0.400 |
| CARPENTER | | HWY | | 24.920 | 26.670 | 1.5 | 1.5 | 2.0 | 5.600 | 4.510 | 0.000 | 0.400 |
| CEMENT MASON | | BLD | | 22.130 | 23.130 | 1.5 | 1.5 | 2.0 | 4.600 | 5.060 | 0.000 | 0.200 |
| CEMENT MASON | | HWY | | 22.110 | 23.110 | 1.5 | 1.5 | 2.0 | 4.600 | 4.500 | 0.000 | 0.350 |
| CERAMIC TILE FNSHER | | BLD | | 16.130 | 0.000 | 1.5 | 1.5 | 2.0 | 6.500 | 3.070 | 0.000 | 0.170 |
| ELECTRIC PWR EQMT OP | | ALL | | 22.510 | 0.000 | 1.5 | 1.5 | 2.0 | 4.500 | 6.080 | 0.000 | 0.110 |
| ELECTRIC PWR GRNDMAN | | ALL | | 18.810 | 0.000 | 1.5 | 1.5 | 2.0 | 4.500 | 5.070 | 0.000 | 0.090 |
| ELECTRIC PWR LINEMAN | | ALL | | 28.370 | 30.080 | 1.5 | 1.5 | 2.0 | 4.500 | 7.660 | 0.000 | 0.140 |
| ELECTRICIAN | | BLD | | 26.520 | 28.520 | 1.5 | 1.5 | 2.0 | 5.230 | 6.970 | 0.000 | 0.310 |
| ELECTRONIC SYS TECH | | BLD | | 19.800 | 20.750 | 1.5 | 1.5 | 2.0 | 2.800 | 3.770 | 0.000 | 0.310 |
| ELEVATOR CONSTRUCTOR | | BLD | | 30.090 | 33.850 | 2.0 | 2.0 | 2.0 | 7.275 | 3.420 | 1.810 | 0.000 |
| GLAZIER | | BLD | | 22.470 | 23.820 | 1.5 | 1.5 | 2.0 | 3.900 | 3.450 | 0.000 | 0.000 |
| HT/FROST INSULATOR | | BLD | | 25.860 | 27.060 | 1.5 | 1.5 | 2.0 | 4.300 | 6.850 | 0.000 | 0.300 |
| IRON WORKER | | ALL | | 22.380 | 24.170 | 1.5 | 1.5 | 2.0 | 6.440 | 8.090 | 0.000 | 0.360 |
| LABORER | | BLD 1 | | 20.210 | 20.710 | 1.5 | 1.5 | 2.0 | 4.600 | 3.750 | 0.000 | 0.500 |
| LABORER | | BLD 2 | | 21.710 | 22.210 | 1.5 | 1.5 | 2.0 | 4.600 | 3.750 | 0.000 | 0.500 |
| LABORER | | BLD 3 | | 22.360 | 22.860 | 1.5 | 1.5 | 2.0 | 4.600 | 3.750 | 0.000 | 0.500 |
| LABORER | | HWY 1 | | 21.410 | 22.410 | 1.5 | 1.5 | 2.0 | 4.600 | 3.750 | 0.000 | 0.500 |
| LABORER | | HWY 2 | | 21.910 | 22.910 | 1.5 | 1.5 | 2.0 | 4.600 | 3.750 | 0.000 | 0.500 |
| LABORER | | HWY 3 | | 22.540 | 23.540 | 1.5 | 1.5 | 2.0 | 4.600 | 3.750 | 0.000 | 0.500 |
| LATHER | | BLD | | 24.000 | 25.200 | 1.5 | 1.5 | 2.0 | 5.140 | 4.470 | 0.000 | 0.400 |
| MACHINIST | | BLD | | 34.540 | 36.290 | 2.0 | 2.0 | 2.0 | 3.200 | 4.100 | 2.380 | 0.000 |
| MARBLE FINISHERS | | BLD | | 16.130 | 0.000 | 1.5 | 1.5 | 2.0 | 6.500 | 3.070 | 0.000 | 0.170 |
| MARBLE MASON | | BLD | | 20.470 | 20.970 | 1.5 | 1.5 | 2.0 | 6.500 | 3.070 | 0.000 | 0.170 |
| MILLWRIGHT | N | BLD | | 30.820 | 33.900 | 1.5 | 1.5 | 2.0 | 6.100 | 8.930 | 0.000 | 0.560 |
| MILLWRIGHT | S | BLD | | 24.390 | 26.090 | 1.5 | 1.5 | 2.0 | 5.550 | 7.090 | 0.000 | 0.560 |
| OPERATING ENGINEER | | BLD 1 | | 24.800 | 0.000 | 1.5 | 1.5 | 2.0 | 5.400 | 5.050 | 1.400 | 0.400 |
| OPERATING ENGINEER | | BLD 2 | | 24.800 | 0.000 | 1.5 | 1.5 | 2.0 | 5.400 | 5.050 | 1.400 | 0.400 |
| OPERATING ENGINEER | | BLD 3 | | 22.150 | 0.000 | 1.5 | 1.5 | 2.0 | 5.400 | 5.050 | 1.400 | 0.400 |
| OPERATING ENGINEER | | BLD 4 | | 22.150 | 0.000 | 1.5 | 1.5 | 2.0 | 5.400 | 5.050 | 1.400 | 0.400 |
| OPERATING ENGINEER | | BLD 5 | | 21.100 | 0.000 | 1.5 | 1.5 | 2.0 | 5.400 | 5.050 | 1.400 | 0.400 |
| OPERATING ENGINEER | | HWY 1 | | 24.800 | 25.800 | 1.5 | 1.5 | 2.0 | 5.400 | 5.050 | 1.400 | 0.400 |
| OPERATING ENGINEER | | HWY 2 | | 24.800 | 25.800 | 1.5 | 1.5 | 2.0 | 5.400 | 5.050 | 1.400 | 0.400 |
| OPERATING ENGINEER | | HWY 3 | | 23.200 | 25.800 | 1.5 | 1.5 | 2.0 | 5.400 | 5.050 | 1.400 | 0.400 |
| OPERATING ENGINEER | | HWY 4 | | 23.200 | 25.800 | 1.5 | 1.5 | 2.0 | 5.400 | 5.050 | 1.400 | 0.400 |
| OPERATING ENGINEER | | HWY 5 | | 22.050 | 25.800 | 1.5 | 1.5 | 2.0 | 5.400 | 5.050 | 1.400 | 0.400 |
| PAINTER | | ALL | | 22.570 | 23.570 | 1.5 | 1.5 | 1.5 | 3.900 | 4.850 | 0.000 | 0.600 |
| PAINTER OVER 30FT | | ALL | | 23.820 | 24.820 | 1.5 | 1.5 | 1.5 | 3.900 | 4.850 | 0.000 | 0.600 |
| PAINTER PWR EQMT | | ALL | | 23.070 | 24.070 | 1.5 | 1.5 | 1.5 | 3.900 | 4.850 | 0.000 | 0.600 |
| PILEDRIVER | | BLD | | 24.000 | 25.200 | 1.5 | 1.5 | 2.0 | 5.140 | 4.470 | 0.000 | 0.400 |
| PILEDRIVER | | HWY | | 24.920 | 26.670 | 1.5 | 1.5 | 2.0 | 5.600 | 4.510 | 0.000 | 0.400 |
| PIPEFITTER | | ALL | | 29.720 | 32.690 | 1.5 | 1.5 | 2.0 | 4.450 | 6.780 | 0.000 | 0.490 |
| PLASTERER | | BLD | | 25.350 | 26.870 | 1.5 | 1.5 | 2.0 | 3.000 | 4.400 | 0.000 | 0.000 |
| PLUMBER | | ALL | | 29.720 | 32.690 | 1.5 | 1.5 | 2.0 | 4.450 | 6.780 | 0.000 | 0.490 |
| ROOFER | | BLD | | 22.000 | 23.250 | 1.5 | 1.5 | 2.0 | 4.890 | 4.820 | 0.000 | 0.190 |
| SHEETMETAL WORKER | | BLD | | 25.970 | 27.560 | 1.5 | 1.5 | 2.0 | 5.040 | 6.860 | 0.000 | 0.380 |
| SPRINKLER FITTER | | BLD | | 29.390 | 30.890 | 1.5 | 1.5 | 2.0 | 6.100 | 4.950 | 0.000 | 0.250 |
| STONE MASON | | BLD | | 23.060 | 24.310 | 1.5 | 1.5 | 2.0 | 6.500 | 4.000 | 0.000 | 0.310 |
| TELECOM WORKER | | ALL | | 21.900 | 23.400 | 1.5 | 1.5 | 2.0 | 3.000 | 2.650 | 1.430 | 0.000 |
| TERRAZZO FINISHER | | BLD | | 16.130 | 0.000 | 1.5 | 1.5 | 2.0 | 6.500 | 3.070 | 0.000 | 0.170 |
| TERRAZZO MASON | | BLD | | 20.470 | 20.970 | 1.5 | 1.5 | 2.0 | 6.500 | 3.070 | 0.000 | 0.170 |
| TILE LAYER | | BLD | | 24.000 | 25.200 | 1.5 | 1.5 | 2.0 | 5.140 | 4.470 | 0.000 | 0.400 |
| TILE MASON | | BLD | | 20.470 | 20.970 | 1.5 | 1.5 | 2.0 | 6.500 | 3.070 | 0.000 | 0.170 |

| | | | | | | | | | | | |
|--------------|-----|---|--------|--------|-----|-----|-----|-------|-------|-------|-------|
| TRUCK DRIVER | ALL | 1 | 23.535 | 0.000 | 1.5 | 1.5 | 2.0 | 6.500 | 3.200 | 0.000 | 0.000 |
| TRUCK DRIVER | ALL | 2 | 23.935 | 0.000 | 1.5 | 1.5 | 2.0 | 6.500 | 3.200 | 0.000 | 0.000 |
| TRUCK DRIVER | ALL | 3 | 24.135 | 0.000 | 1.5 | 1.5 | 2.0 | 6.500 | 3.200 | 0.000 | 0.000 |
| TRUCK DRIVER | ALL | 4 | 24.385 | 0.000 | 1.5 | 1.5 | 2.0 | 6.500 | 3.200 | 0.000 | 0.000 |
| TRUCK DRIVER | ALL | 5 | 25.135 | 0.000 | 1.5 | 1.5 | 2.0 | 6.500 | 3.200 | 0.000 | 0.000 |
| TRUCK DRIVER | O&C | 1 | 18.828 | 0.000 | 1.5 | 1.5 | 2.0 | 6.500 | 3.200 | 0.000 | 0.000 |
| TRUCK DRIVER | O&C | 2 | 19.148 | 0.000 | 1.5 | 1.5 | 2.0 | 6.500 | 3.200 | 0.000 | 0.000 |
| TRUCK DRIVER | O&C | 3 | 19.308 | 0.000 | 1.5 | 1.5 | 2.0 | 6.500 | 3.200 | 0.000 | 0.000 |
| TRUCK DRIVER | O&C | 4 | 19.508 | 0.000 | 1.5 | 1.5 | 2.0 | 6.500 | 3.200 | 0.000 | 0.000 |
| TRUCK DRIVER | O&C | 5 | 20.108 | 0.000 | 1.5 | 1.5 | 2.0 | 6.500 | 3.200 | 0.000 | 0.000 |
| TUCKPOINTER | BLD | | 23.060 | 24.310 | 1.5 | 1.5 | 2.0 | 6.500 | 4.000 | 0.000 | 0.310 |

Legend:

M-F>8 (Overtime is required for any hour greater than 8 worked each day, Monday through Friday.)

OSA (Overtime is required for every hour worked on Saturday)

OSH (Overtime is required for every hour worked on Sunday and Holidays)

H/W (Health & Welfare Insurance)

Pensn (Pension)

Vac (Vacation)

Trng (Training)

Explanations

ROCK ISLAND COUNTY

MILLWRIGHT (SOUTH) - South of Interstate 80.

The following list is considered as those days for which holiday rates of wages for work performed apply: New Years Day, Memorial/Decoration Day, Fourth of July, Labor Day, Veterans Day, Thanksgiving Day, Christmas Day. Generally, any of these holidays which fall on a Sunday is celebrated on the following Monday. This then makes work performed on that Monday payable at the appropriate overtime rate for holiday pay. Common practice in a given local may alter certain days of celebration such as the day after Thanksgiving for Veterans Day. If in doubt, please check with IDOL.

Oil and chip resealing (O&C) means the application of road oils and liquid asphalt to coat an existing road surface, followed by application of aggregate chips or gravel to coated surface, and subsequent rolling of material to seal the surface.

EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close future date.

ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical

systems are to remain.

CERAMIC TILE FINISHER, MARBLE FINISHER, TERRAZZO FINISHER

Assisting, helping or supporting the tile, marble and terrazzo mechanic by performing their historic and traditional work assignments required to complete the proper installation of the work covered by said crafts. The term "Ceramic" is used for naming the classification only and is in no way a limitation of the product handled. Ceramic takes into consideration most hard tiles.

ELECTRONIC SYSTEMS TECHNICIAN

Installing, assembling and maintaining sound and intercom, protection alarm (security), master antenna television, closed circuit television, computer hardware and software programming and installation to the network's outlet and input (EXCLUDING all cabling, power and cable termination work historically performed by wiremen), door monitoring and control, nurse and emergency call programming and installation to the system's outlet and input (EXCLUDING all cabling, power and cable termination work historically performed by wiremen), clock and timing; and the installation and maintenance of transmit and receive antennas, transmitters, receivers, and associated apparatus which operates in conjunction with the above systems. All work associated with these system installations will be included EXCEPT (1) installation of protective metallic conduit, excluding less than ten-foot runs strictly for protection of cable, and (2) 120 volt AC (or higher) power wiring and associated hardware.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION

Class 1. Drivers on 2 axle trucks hauling less than 9 ton. Air compressor and welding machines and brooms, including those pulled by separate units, truck driver helpers, warehouse employees, mechanic helpers, greasers and tiremen, pickup trucks when hauling materials, tools, or workers to and from and on-the-job site, and fork lifts up to 6,000 lb. capacity.

Class 2. Two or three axle trucks hauling more than 9 ton but hauling less than 16 ton. A-frame winch trucks, hydrolift trucks, vector trucks or similar equipment when used for transportation purposes. Fork lifts over 6,000 lb. capacity, winch trucks, four axle combination units, and ticket writers.

Class 3. Two, three or four axle trucks hauling 16 ton or more. Drivers on water pulls, articulated dump trucks, mechanics and working forepersons, and dispatchers. Five axle or more combination units.

Class 4. Low Boy and Oil Distributors.

Class 5. Drivers who require special protective clothing while employed on hazardous waste work.

TRUCK DRIVER - OIL AND CHIP RESEALING ONLY.

This shall encompass laborers, workers and mechanics who drive contractor or subcontractor owned, leased, or hired pickup, dump, service, or oil distributor trucks. The work includes transporting materials and equipment (including but not limited to, oils, aggregate supplies, parts, machinery and tools) to or from the job site; distributing oil or liquid asphalt and aggregate; stock piling material when in connection with the actual oil and chip contract. The Truck Driver (Oil & Chip Resealing) wage classification does not include supplier delivered materials.

OPERATING ENGINEERS - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION

Class 1. An engineer on Crane, Shovel, Clamshell, Dragline, Backhoe, Derrick, Tower Crane, Cable Way, Concrete Spreader (servicing two pavers), Asphalt Spreader, Asphalt Mixer, Plant Engineer, Dipper Dredge Operator, Dipper Dredge Craneman, Dual Purpose Truck (boom or winch), Leverman or Engineman (hydraulic dredge), Mechanic, Paving Mixer with tower attached, Pile Driver, Boom Tractor, Stationary, Portable or Floating Mixing Plant, Trenching Machine (over 40 H.P.), Building Hoist (two drums), Hot Paint Wrapping Machine, Cleaning and Priming Machine, Backfiller (throw bucket), Locomotive Engineer, Qualified Welder, Tow or Push Boat, Concrete Paver, Seaman Trav-L-Plant or similar machines, CMI Autograder or similar machines, Slip Form Paver, Caisson Augering Machine, Mucking Machine, Asphalt Heater-Planer Unit, Hydraulic Cranes, Mine Hoists.

Class 2. An engineer on Athey, Barber-Green, Euclid or Haiss Loader, Asphalt Pug Mill, Fireman and Drier, Concrete Pump, Concrete Spreader (servicing one paver) Bulldozer, Endloader, Log Chippers or similar machines, Elevating Grader, Group Equipment Greaser, LeTourneaupul and similar machines, off-road haul units, DW-10 Hyster Winch and similar machines, Motor Patrol, Power Blade, Push Cat, Tractor Pulling elevating Grader or Power Blade, Tractor Operating Scoop or Scraper, Tractor with Power Attachment, Roller on Asphalt or Blacktop, Single Drum Hoist, Jaeger Mix and Place Machine, Pipe Bending Machine, Flexaplane or similar machines, Automatic Curbing Machines, Automatic Cement and Gravel Batch Plants (one stop set-up), Seaman Pulvi-Mixer or similar machines, Blastholer Self-propelled Rotary Drill or similar machines, Work Boat, Combination Concrete Finishing Machine and Float, Self-propelled Sheep Foot Roller or Compactor (used in conjunction with a Grading Spread), Asphalt Spreader Screed Operator, Apsco spreader or similar machine, Slusher, Forklift (over 6000 lb. cap. or working at heights above 28 ft.) Concrete Conveyors, Chip Spreader, Underground Boring Machine (BUILDING ONLY), Straddle Carrier, Hydro-Hammer (BUILDING ONLY), Hydraulic Pumps or Power Units Driven by any power source (except manually), used to hoist or lift machinery or material.

Class 3. An engineer on Asphalt Booster, Fireman and Pump Operator at Asphalt Plant, Mud Jack, Underground Boring Machine (HIGHWAY ONLY), Concrete Finishing Machine, Form Grader with Roller on Earth, Mixers (3 bag to 16E), Power Operated Bull Float, Tractor without Power attachment, Dope Pot (agitating motor), Dope Chop Machine, Distributor (back end), StraddleCarrier, Portable Machine Fireman, Hydro-Hammer (HIGHWAY ONLY), Power Winch on Paving Work, Self-propelled Roller or Compactor (other than provided for above), Pump Operator (more than one well-point pump), Portable Crusher Operator, Trench Machine (under 40 H.P.), Power Subgrader (on forms) or similar machines, Forklift (6000 or less cap.) Gypsum Pump, Conveyor over 20 H.P., Fuller Kenyon Cement Pump or similar machines.

Class 4. An engineer on Air Compressor (400 c.f.m. or over HIGHWAY ONLY), Light Plant, Mixers (1 or 2 bag), Power Batching Machine (Cement Auger or Conveyor), Boiler (Engineer or Fireman), Water Pumps (HIGHWAY ONLY), Mechanical Broom, Automatic Cement and Gravel Batch Plants (two or three stop set-up), Small Rubber-tired Tractors (not including backhoes or endloaders), Self-propelled Curing Machine, Brush Chipper, Driver on Truck Crane or similar machines.

Class 5. Oiler, Mechanic's Helper, Mechanical Heater (other than steam boiler), Belt Machine, Small Outboard Motor Boats (Safety Boat and Life Boat), Engine Driven Welding Machine, and Small Tractors

(used to unroll or roll wire mesh), Water pumps (BUILDING ONLY), Air Compressors (BUILDING ONLY), Permanent Automatic Elevators.

LABORER - BUILDING

Class 1: General laborer, carpenter tender, tool cribman, salamander tender, flagman, form handler, floor sweeper, material handler, fencing laborer, cleaning lumber, landscaper, unloading explosives, laying of sod, planting/removal of trees, wrecking laborer, unloading of Re-Bars, scaffold worker, signal man on crane.

Class 2: Handling of materials treated with creosote, kettle men, prime mover or motorized unit used for wet concrete or handling of building materials, vibrator operator, mortar mixer, power tools used under the jurisdiction of laborers, sand points, gunnite nozzle men, welders, cutters, burners and torchmen, chain saw operator, jackhammer and drill operators, paving breakers, air tamping hammerman, concrete saw operator, concrete burning machine operator, coring machine operator - hod carrier and plasterer tender.

Class 3: Caisson worker after 6 foot depth, dynamite man, asbestos abatement worker, tunnel miners - mixerman (plaster only), pump man.

LABORER - HEAVY & HIGHWAY

Class 1: Rod or chain man, flagman, dumpman, spotter, broom man, landscaper, planting and removal of trees, fencing laborers, dispatcher, ticket writer, scaleman, cleaning of forms or lumber (in bone yard), laying of sod, moving and/or maintenance of flares and barricades.

Class 2: Operation of all hand, electric, air, hydraulic or mechanically powered tools under the jurisdiction of Laborers' including jackhammers, tempers, air spades, augers, concrete saws, chain saws, utility saws, rock drills, vibrators, mortar mixer, power and hand saw (when clearing timber) general laborer (not elsewhere covered), craft-tender, material checker, material handler, form handler, concrete dumper, puddler, form setter helper, explosives handler, dynamite helper, center strip, reinforcing in concrete, wire mesh handler and installer, prime mover or any mechanical device taking the place of concrete buggy or wheelbarrow, sandpoint setter, asphalt kettleman. Sheeting hammer drivers, laying and jointing of telephone conduit, gas distribution men, pipe setter on laterals, drain tiles, culvert pipe, and storm sewer catch basin leads, catch basins, manholes, batch dumpers, tank cleaners, cofferdam workers, bankman on floating plant, jointman with pipelayers. Back-up man (corker, joint maker) with pipe setter on sewer and water mains, batterboard man or laser operator on sewer and water main, labor in ditch, or tunnel, on sewer or water mains and telephone conduit. Cutters, burners, torchman, gravel box man, asphalt plant laborers, concrete plant laborer, deck hand, unloading of steel and rebar, laser beam operator, wrecking laborers.

Class 3: Asphalt raker or luteman, head form setter, head dynamite man (powderman) head string or wireline man (on paving), pipe setter on sewer or water main, gunnite nozzle man, asphalt or concrete curb machine operator, head grade man, head tunnel miner, concrete burning machine operator, coring machine operator, welder.

Other Classifications of Work:

For definitions of classifications not otherwise set out, the Department generally has on file such definitions which are available. If a task to be performed is not subject to one of the classifications

of pay set out, the Department will upon being contacted state which neighboring county has such a classification and provide such rate, such rate being deemed to exist by reference in this document. If no neighboring county rate applies to the task, the Department shall undertake a special determination, such special determination being then deemed to have existed under this determination. If a project requires these, or any classification not listed, please contact IDOL at 618/993-7271 for wage rates or clarifications.

LANDSCAPING

Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscape plantsman and landscape laborer is covered by the existing classification of laborer. The work performed by landscape operators (regardless of equipment used or its size) is covered by the classifications of operating engineer. The work performed by landscape truck drivers (regardless of size of truck driven) is covered by the classifications of truck driver.