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

#### **PREQUALIFICATION**

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

#### **REQUESTS FOR AUTHORIZATION TO BID**

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

#### 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. This does not apply to Small Business Set-Asides.

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

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

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

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

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

#### IDOT IS NOT RESPONSIBLE FOR ANY E-MAIL FAILURES.

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

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

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

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

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

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

#### WHO SHOULD BE CALLED IF ASSISTANCE IS NEEDED?

Questions RegardingCallPrequalification and/or Authorization to Bid217/782-3413Preparation and submittal of bids217/782-7806Electronic plans and proposals217/782-7806

#### ADDENDUMS AND REVISIONS TO THE PROPOSAL FORMS

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

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Proposal Submitted By	
Name	
Address	
City	

# Letting April 29, 2011

## 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. This does not apply to Small Business Set-Asides.

(SEE INSTRUCTIONS ON THE INSIDE OF COVER)

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



Springfield, Illinois 62764

Contract No. 76E70 ST CLAIR County Section DIST 8 ITS 2011-3 Route FAI 64 District 8 Construction Funds

PLEASE MARK THE APPROPRIATE BOX BELOW:	
☐ A <u>Bid</u> <u>Bond</u> is included.	
A Cashier's Check or a Certified Check is included.	

Prepared by

S

Checked by

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

ed by

#### **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. In addition, this proposal contains new statutory requirements applicable to the use of subcontractors and, in particular, includes the <a href="State Required Ethical">State Required Ethical</a> Standards Governing Subcontractors to be signed and incorporated into all subcontracts.

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 <u>must complete and submit Part B of the Request for Authorization to Bid/or Not For Bid Status form (BDE 124) and submit an original Affidavit of Availability (BC 57).</u> This does not apply to Small Business Set-Asides.

WHAT CONSTITUTES WRITTEN AUTHORIZATION TO BID?: When a prospective prime bidder submits a "Authorization to Bid or Not for Bid" form, 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 Authorization to Bid or Not for Bid Report, approved by the Central Bureau of Construction, that indicates which items have been approved For Bidding. If Authorization to Bid cannot be approved, the Authorization to Bid or Not for Bid Report will indicate the reason for denial. If a contractor has requested to bid but has not received a Authorization to Bid or Not for Bid Report, they should contact the Central Bureau of Construction in advance of the letting date.

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

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

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

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

#### WHO SHOULD BE CALLED IF ASSISTANCE IS NEEDED?

Questions Regarding Call

Prequalification and/or Authorization to Bid 217/782-3413 Preparation and submittal of bids 217/782-7806



Route FAI 64

TO THE DEDARTMENT OF TRANSPORTATION

**District 8 Construction Funds** 

**PROPOSAL** 

TO THE DEPARTMENT OF TRANSPORTATION	
1. Proposal of	
Taxpayer Identification Number (Mandatory)	a
for the improvement identified and advertised for bids in the Invitation for Bids as:	
Contract No. 76E70 ST CLAIR County Section DIST 8 ITS 2011-3	

This project consists of removing and replacing the existing dynamic message sign along with its span mounted attached conduit and controller cabinet located on Interstate 64 near Caseyville.

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

- 3. **ASSURANCE OF EXAMINATION AND INSPECTION/WAIVER.** The undersigned further declares that he/she has carefully examined the proposal, plans, specifications, addenda, form of contract and contract bond, and special provisions, and that he/she has inspected in detail the site of the proposed work, and that he/she has familiarized themselves with all of the local conditions affecting the contract and the detailed requirements of construction, and understands that in making this 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>A</u>	mount o	of Bid	Proposal <u>Guaranty</u>	<u>Am</u>	nount c	Proposal of Bid Guaranty
Up to		\$5,000	\$150	\$2,000,000	to	\$3,000,000\$100,000
\$5,000	to	\$10,000	\$300	\$3,000,000	to	\$5,000,000 \$150,000
\$10,000	to	\$50,000	\$1,000	\$5,000,000	to	\$7,500,000 \$250,000
\$50,000	to	\$100,000	\$3,000	\$7,500,000	to	\$10,000,000 \$400,000
\$100,000	to	\$150,000	\$5,000	\$10,000,000	to	\$15,000,000 \$500,000
\$150,000	to	\$250,000	\$7,500	\$15,000,000	to	\$20,000,000\$600,000
\$250,000	to	\$500,000	\$12,500	\$20,000,000	to	\$25,000,000\$700,000
\$500,000	to	\$1,000,000	\$25,000	\$25,000,000	to	\$30,000,000 \$800,000
\$1,000,000	to	\$1,500,000	\$50,000	\$30,000,000	to	\$35,000,000 \$900,000
\$1,500,000	to	\$2,000,000	\$75,000	over		\$35,000,000 \$1,000,000

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

If a combination bid is submitted,	the proposal guaranties	which accompany the	individual proposals makir	ng 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.

-3-

combina combina proporti	ation, he/shation bid spon to the bid	PS. The undersigned further agrees that if awarded the contract will perform the work in accordance with the requirements specified in the schedule below, and that the combination bid submitted for the same. If an error is found to exist in the grant a combination, the combination bid shall be corrected as proving the combination of t	of each individual proposal comprising d shall be prorated against each section oss sum bid for one or more of the indivi-
	comprisi	combination bid is submitted, the schedule below must being the combination.  te bids are submitted for one or more of the sections comition bid must be submitted for each alternate.	
		Schedule of Combination Bids	
Combinatio	n		Combination Bid
No.		Sections Included in Combination	Dollars Cents
schedul all exter schedul is an eri contract contract	e of prices for a sions and some are approper or in the extended will be made. The scheme	RICES. The undersigned bidder submits herewith, in accordanger the items of work for which bids are sought. The unit prices summations have been made. The bidder understands that the ximate and are provided for the purpose of obtaining a gross stension of the unit prices, the unit prices shall govern. Paymer de only for actual quantities of work performed and accepted or duled quantities of work to be done and materials to be furnished elsewhere in the contract.	bid are in U.S. dollars and cents, and e quantities appearing in the bid um for the comparison of bids. If there are to the contractor awarded the materials furnished according to the
provides	that a pe	<b>DO BUSINESS IN ILLINOIS.</b> Section 20-43 of the Illinois Preson (other than an individual acting as a sole proprietor) note of Illinois prior to submitting the bid.	,
. The ser	vices of a	subcontractor will or may be used.	
		/es	

10. **EXECUTION OF CONTRACT**: The Department of Transportation will, in accordance with the rules governing Department procurements, execute the contract and shall be the sole entity having the authority to accept performance and make payments under the contract. Execution of the contract by the Chief Procurement Officer or the State Purchasing Officer is for approval of the procurement process and execution of the contract by the Department. Neither the Chief Procurement Officer nor the State Purchasing Officer shall be responsible for administration of the contract or determinations respecting performance or payment there under except as otherwise permitted in the Illinois Procurement Code.

# ILLINOIS DEPARTMENT OF TRANSPORTATION SCHEDULE OF PRICES CONTRACT NUMBER - 76E70

State Job # - C-98-031-11
PPS NBR - 0-01101-8001
County Name - ST CLAIR- -

Code - 163 - -

District - 8 - -

Section Number - DIST 8 ITS 2011-3

Project Number	Route
	FAI 64

Item Number	Pay Item Description	Unit of Measure	Quantity	х	Unit Price	=	Total Price
X0325479	RELO EX ITS EQUIP TYA	EACH	1.000				
X0325482	REM EXIST ITS EQUIPMT	EACH	1.000				
X0325485	TR MTD LED DYN MSG SN	EACH	1.000				
Z0026346	NIGHT WORK ZONE LIGHT	L SUM	1.000				
67100100	MOBILIZATION	L SUM	1.000				
70100700	TRAF CONT-PROT 701406	L SUM	1.000				
70100815	TRAF CONT-PROT 701446	L SUM	1.000				
81100584	CON AT ST 1 1/2 ALUM	FOOT	100.000				
86300305	CONT CAB TYPE III SPL	EACH	1.000				
89502300	REM ELCBL FR CON	FOOT	200.000				

CONTRACT NUMBER	76E70	
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.

# 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. Except as otherwise required in subsection III, paragraphs J-M, by execution of the Proposal Signature Sheet, the bidder indicates that each of the mandated assurances have been read and understood, that each certification is made and understood, and that each disclosure requirement has been understood and completed.
- **C.** In addition to all other remedies provided by law, failure to comply with any assurance, failure to make any disclosure or the making of a false certification shall be grounds for the chief procurement officer to void the contract, or subcontract, and may result in the suspension or debarment of the bidder or subcontractor.

#### **II. ASSURANCES**

The assurances hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder.

#### A. Conflicts of Interest

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 \$177,412.00. Sixty percent of the salary is \$106,447.20.

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.

#### B. 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.

#### C. 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.

#### D. Revolving Door Prohibition

1. The Illinois Procurement Code provides:

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

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.

#### E. 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.

#### F. 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.

#### **G.** 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**

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

#### A. Bribery

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, or subcontracting under such a contract, as a result of a conviction under this Section of any employee or agent of the business if the employee or agent is no longer employed by the business and:
  - (1) the business has been finally adjudicated not guilty; or
  - (2) the business demonstrates to the governmental entity with which it seeks to contract, or which is signatory to the contract which the subcontract relates, and that entity finds that the commission of the offense was not authorized, requested, commanded, or performed by a director, officer, or high managerial agent on behalf of the business as provided in paragraph (2) of subsection (a) of Section 5-4 of the Criminal Code of 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, and every subcontract subject to Section 20-120 of the Procurement Code shall contain a certification by the contractor or the subcontractor, respectively, that the contractor or subcontractor is not barred from being awarded a contract or subcontract under this Section and acknowledges that the chief procurement officer may declare the related contract void if any certifications required by this Section are false. A contractor who makes a false statement, material to the certification, commits a Class 3 felony.
- 2. The contractor or subcontractor certifies that it is not barred from being awarded a contract under Section 50.5.

#### 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, or enter into a subcontract, from the date of conviction until 5 years after the date of completion of the sentence for that felony, unless no person held responsible by a prosecutorial office for the facts upon which the conviction was based continues to have any involvement with the business.

2. Certification. Every bid submitted to and contract executed by the State and every subcontract subject to Section 20-120 of the Procurement Code shall contain a certification by the bidder or contractor or subcontractor, respectively, that the bidder, contractor, or subcontractor is not barred from being awarded a contract or subcontract under this Section and acknowledges that the chief procurement officer may declare the related contract void if any of the certifications required by this Section are false.

#### C. <u>Debt Delinquency</u>

1. The Illinois Procurement Code provides:

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

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

#### D. Prohibited Bidders, Contractors and Subcontractors

1. The Illinois Procurement Code provides:

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

The bidder or contractor or subcontractor, respectively, certifies in accordance with 30 ILCS 500/50-10.5 that no officer, director, partner or other managerial agent of the contracting business has been convicted of a felony under the Sarbanes-Oxley Act of 2002 or a Class 3 or Class 2 felony under the Illinois Securities Law of 1953 or if in violation of Subsection (c) for a period of five years from the date of conviction. Every bid submitted to and contract executed by the State and every subcontract subject to Section 20-120 of the Procurement Code shall contain a certification by the bidder, contractor, or subcontractor, respectively, that the bidder, contractor, or subcontractor is not barred from being awarded a contract or subcontract under this Section and acknowledges that the chief procurement officer shall declare the related contract void if any of the certifications completed pursuant to this Section are false.

#### E. Section 42 of the Environmental Protection Act

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

#### F. 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.

#### G. Bid-Rigging/Bid Rotating

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

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

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

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

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

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

#### H. 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.

#### I. 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.

#### J. Disclosure of Business Operations in Iran

Section 50-36 of the Illinois Procurement Code, 30ILCS 500/50-36 provides that each bid, offer, or proposal submitted for a State contract shall include a disclosure of whether or not the Company acting as the bidder, offeror, or proposing entity, or any of its corporate parents or subsidiaries, within the 24 months before submission of the bid, offer, or proposal had business operations that involved contracts with or provision of supplies or services to the Government of Iran, companies in which the Government of Iran has any direct or indirect equity share, consortiums or projects commissioned by the Government of Iran, or companies involved in consortiums or projects commissioned by the Government of Iran and either of the following conditions apply:

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

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

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

Check the appropriate statement:
// Company has no business operations in Iran to disclose.
// Company has business operations in Iran as disclosed the attached document.

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

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


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

#### L. Political Contributions and Registration with the State Board of Elections

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

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

The undersigned business entity certifies that it has registered as a business with the State Board of Elections and acknowledges a continuing duty to update the registration in accordance with the above referenced statutes. A copy of the certificate of registration shall be submitted with the bid. The bidder is cautioned that the Department will not award a contract without submission of the certificate of registration.

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

#### M. Lobbyist Disclosure

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

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

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

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

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

	Bidder has not hired any person required to register pursuant to the Illinois Lobbyist Registration Act in connection with this contract.
Oı	
	Bidder has hired the following persons required to register pursuant to the Illinois Lobbyist Registration Act in connection with the contract:
	d address of person:

#### **IV. DISCLOSURES**

A. The disclosures hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder. The bidder further certifies that the Department has received the disclosure forms for each bid.

The chief procurement officer may void the bid, contract, or subcontract, respectively, if it is later determined that the bidder or subcontractor rendered a false or erroneous disclosure. A contractor or subcontractor may be suspended or debarred for violations of the Procurement Code. Furthermore, the chief procurement officer may void the contract and the surety providing the performance bond shall be responsible for completion of the contract.

#### B. Financial Interests and Conflicts of Interest

1. Section 50-35 of the Illinois Procurement Code provides that all bids of more than \$25,000 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, filed with the Procurement Policy Board, and shall be incorporated as a material term of the contract. Furthermore, pursuant to Section 5-5, the Procurement Policy Board may review a proposal, bid, or contract and issue a recommendation to void a contract or reject a proposal or bid based on any violation of the Procurement Code or the existence of a conflict of interest as provided in subsections (b) and (d) of Section 50-35.

The financial interests to be disclosed shall include ownership or distributive income share that is in excess of 5%, or an amount greater than 60% of the annual salary of the Governor, of the bidding entity or its parent entity, whichever is less, unless the contractor or bidder is a publicly traded entity subject to Federal 10K reporting, in which case it may submit its 10K disclosure in place of the prescribed disclosure. If a bidder is a privately held entity that is exempt from Federal 10K reporting, but has more than 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.

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

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

2. <u>Disclosure Forms</u>. Disclosure Form A is attached for use concerning the individuals meeting the above ownership or distributive share requirements. 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.** 

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

than one question.)

#### Form A Instructions for Financial Information & Potential Conflicts of Interest

If the bidder is a publicly traded entity subject to Federal 10K reporting, the 10K Report may be submitted to meet the requirements of Form A. If a bidder is a privately held entity that is exempt from Federal 10K reporting, but has more than 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 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 60% of the annual salary of the Governor? YESNO
3.	Does anyone in your organization receive more than 60% of the annual salary of the Governor of the bidding entity's or parent entity's distributive income? YES NO
	(Note: Distributive income is, for these purposes, any type of distribution of profits. An annual salary is not distributive income.)
4.	Does anyone in your organization receive greater than 5% of the bidding entity's or parent entity's total distributive income, but which is less than 60% of the annual salary of the Governor? YES NO

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.

(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

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

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

Disclosure Form B must be completed for each bid submitted by the bidding entity. Note: Checking the <u>NOT APPLICABLE STATEMENT</u> on Form A <u>does not</u> allow the bidder to ignore Form B. Form B must be completed, checked, and dated or the bidder may be considered nonresponsive and the bid will not be accepted.

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

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

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

# ILLINOIS DEPARTMENT OF TRANSPORTATION

# Form A Financial Information & Potential Conflicts of Interest Disclosure

Contractor Name		
Legal Address		
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 \$25,000, and for all openended contracts. A publicly traded company may submit a 10K disclosure (or equivalent if applicable) in satisfaction of the requirements set forth in Form A. See Disclosure Form Instructions.

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

FOR INDIVIDUAL (type or print information)

#### DISCLOSURE OF FINANCIAL INFORMATION

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

		(),		
	NAME:			
	ADDRESS	S		
	Type of ow	nership/distributable income share:		
	stock	sole proprietorship	Partnership	other: (explain on separate sheet):
	% or \$ valu	e of ownership/distributable income sha	are:	
poten				dicate which, if any, of the following is "Yes", please attach additional pages
(	a) State em	ployment, currently or in the previous	us 3 years, including con	stractual employment of services.  YesNo
	If your an	swer is yes, please answer each of	f the following questions.	<del></del> _
		re you currently an officer or emplo oll Highway Authority?	oyee of either the Capitol	Development Board or the Illinois State YesNo
	С		by any agency of the Sta	of the State of Illinois? If you are te of Illinois, and your annual salary

3	3. If you are currently appointed to or employed by any agency of the salary exceeds 60% of the annual salary of the Governor, are you e (i) more than 7 1/2% of the total distributable income of your firm corporation, or (ii) an amount in excess of 100% of the annual salary	entitled to receive n, partnership, association or
2	4. If you are currently appointed to or employed by any agency of the salary exceeds 60% of the annual salary of the Governor, are you a or minor children entitled to receive (i) more than 15 % in the agg income of your firm, partnership, association or corporation, or (ii) a the salary of the Governor?	and your spouse regate of the total distributable
	ployment of spouse, father, mother, son, or daughter, including contravious 2 years.	
If your ans	swer is yes, please answer each of the following questions.	YesNo
1	I. Is your spouse or any minor children currently an officer or employe Board or the Illinois State Toll Highway Authority?	e of the Capitol Development YesNo
	2. Is your spouse or any minor children currently appointed to or employ of Illinois? If your spouse or minor children is/are currently appagency of the State of Illinois, and his/her annual salary excees annual salary of the Governor, provide the name of your spouse and/or of the State agency for which he/she is employed and his/her annual	oppointed to or employed by any eds 60% of the or minor children, the name
	3. If your spouse or any minor children is/are currently appointed to or State of Illinois, and his/her annual salary exceeds 60% of the annual so of 7/1/07) are you entitled to receive (i) more than 71/2% of the to firm, partnership, association or corporation, or (ii) an amount in annual salary of the Governor?	al salary of the Governor, otal distributable income of your
4	4. If your spouse or any minor children are currently appointed to or estate of Illinois, and his/her annual salary exceeds 60% of the annual and your spouse or minor children entitled to receive (i) more that aggregate of the total distributable income of your firm, partnership (ii) an amount in excess of 2 times the salary of the Governor?	al salary of the Governor, are you an 15 % in the
		YesNo
unit	ive status; the holding of elective office of the State of Illinois, the gove of local government authorized by the Constitution of the State of Illino s currently or in the previous 3 years.	
, ,	tionship to anyone holding elective office currently or in the previous 2 or daughter.	years; spouse, father, mother, YesNo
Amer of the	pointive office; the holding of any appointive government office of the Starica, or any unit of local government authorized by the Constitution of the State of Illinois, which office entitles the holder to compensation in existence of that office currently or in the previous 3 years.	the State of Illinois or the statutes
	ionship to anyone holding appointive office currently or in the previous or daughter.	2 years; spouse, father, mother, YesNo
(g) Empl	loyment, currently or in the previous 3 years, as or by any registered lo	obbyist of the State government. YesNo

### **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.  YesNo
(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
2.	Communication Disclosure.
Se en su	sclose the name and address of each lobbyist and other agent of the bidder or offeror who is not identified in ection 2 of this form, who is has communicated, is communicating, or may communicate with any State officer or apply plemented for accuracy throughout the process and throughout the term of the contract. If no person is entified, enter "None" on the line below:
	Name and address of person(s):

**4. Debarment Disclosure.** For each of the persons identified under Sections 2 and 3 of this form, disclose whether any of the following has occurred within the previous 10 years: debarment from contracting with any

governmental entity; professional licensure discipline; bankruptcies; adverse civil judgments and administrative findings; and criminal felony convictions. This disclosure is a continuing obligation and must be promptly supplemented for accuracy throughout the procurement process and term of the contract. If no person is identified, enter "None" on the line below: Name of person(s): Nature of disclosure: APPLICABLE STATEMENT This Disclosure Form A is submitted on behalf of the INDIVIDUAL named on previous page. Under penalty of perjury, I certify the contents of this disclosure to be true and accurate to the best of my knowledge. Completed by: Signature of Individual or Authorized Representative Date NOT APPLICABLE STATEMENT Under penalty of perjury, I have determined that no individuals associated with this organization meet the criteria that would require the completion of this Form A. This Disclosure Form A is submitted on behalf of the CONTRACTOR listed on the previous page. Signature of Authorized Representative Date

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

# 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 th LCS 500). This information shall become paids in excess of \$25,000, and for all open-e	art of the publicly available contract	
DISCLOSURE OF OTHER CO	NTRACTS AND PROCUREMENT	RELATED INFORMATION
1. Identifying Other Contracts & Procure pending contracts (including leases), bids, pullinois agency: Yes No If "No" is checked, the bidder only needs	proposals, or other ongoing procure	ment relationship with any other State of
2. If "Yes" is checked. Identify each such descriptive information such as bid or proje FORM INSTRUCTIONS:		
THE FOLL	OWING STATEMENT MUST BE CI	HECKED
	Signature of Authorized Representative	Date

#### **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.



Contract No. 76E70
ST CLAIR County
Section DIST 8 ITS 2011-3
Route FAI 64
District 8 Construction Funds

PART I. IDENTIFIC	CATION								DIST	ICT 8	Cons	truction	Funas	5			
Dept. Human Rights # Duration of Project:																	
Name of Bidder: _																	
PART II. WORKFO A. The undersigned which this contract we projection including a	d bidder h	as analyz e perform	ed mir	d for th d fema	ne locati	ons fro	m whic	h the b	idder re	ecruits	employe	ees, and her	eby subm be alloca	nits the foll ted to this TABLE	owir con B	ng workfo tract:	orce
		TOTA	AL Wo	rkforce	Projec	tion for	Contra	ıct					(	CURRENT TO BE			ES
				MINO	ORITY I	=MPI O	YFFS			TR	AINEES			TO CO			
JOB CATEGORIES		TAL OYEES	BL/	ACK	HISP			HER OR.	APPI TIC		ON T	HE JOB INEES		OTAL LOYEES			RITY DYEES
	М	F	М	F	М	F	М	F	М	F	М	F	М	F		М	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																	
		BLE C							1			FOR D	FPARTI	лENT US	FC	NI Y	
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EMPLOYEES IN	_	TAL OYEES	BI A	ACK	HISE	ANIC	_	THER NOR.									
TRAINING	M	F	M	F	М	F	M	F	1								
APPRENTICES	IVI	<del>  '</del>	171	<u> </u>	101	<del>                                     </del>	101	<u> </u>	1								
ON THE JOB TRAINEES																	

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

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

Note: See instructions on page 2

BC 1256 (Rev. 12/11/07)

Contract No. 76E70 ST CLAIR County Section DIST 8 ITS 2011-3 Route FAI 64 District 8 Construction Funds

#### PART II. WORKFORCE PROJECTION - continued

B. Included in "Total Employees" under Table A is the total number of <b>new hires</b> that would be employed in the event the undersigned bidder is awarded this contract.							
	The u	ındersigned bidder projects that: (number)		new hires would be			
	recrui	ted from the area in which the contract project is lo	cated; and/or (number)				
	office	or base of operation is located.	be recruited from the area in	which the bidder's principal			
		·					
C.		ded in "Total Employees" under Table A is a project rsigned bidder as well as a projection of numbers of					
	be dir	undersigned bidder estimates that (number) rectly employed by the prime contractor and that (number) by subcontractors.	umber)	persons will persons will be			
PART	III. AFF	FIRMATIVE ACTION PLAN					
A.	utiliza in any comm (geare utiliza	indersigned bidder understands and agrees that in a tion projection included under <b>PART II</b> is determined to job category, and in the event that the undersigned enencement of work, develop and submit a written All ed to the completion stages of the contract) wherebution are corrected. Such Affirmative Action Plan wite epartment of Human Rights.	ed to be an underutilization of d bidder is awarded this cont ffirmative Action Plan includir by deficiencies in minority and	f minority persons or women ract, he/she will, prior to a specific timetable d/or female employee			
В.	subm	indersigned bidder understands and agrees that the itted herein, and the goals and timetable included upart of the contract specifications.					
Comp	any		Telephone Number				
Addre	 ss						
Ī		NOTICE REGARDI	NG SIGNATURE				
		Ider's signature on the Proposal Signature Sheet will cor o be completed if revisions are required.		The following signature block			
	Signatu	ire: 🗌 🗔	Гitle:	Date:			
Instruct	ions:	All tables must include subcontractor personnel in addition to	prime contractor personnel.				
Table A	۱ -	Include both the number of employees that would be hired (Table B) that will be allocated to contract work, and include should include all employees including all minorities, apprentic	all apprentices and on-the-job traine	ees. The "Total Employees" column			
Table E	3 -	Include all employees currently employed that will be allocate currently employed.	d to the contract work including any	apprentices and on-the-job trainees			
Table C	) -	Indicate the racial breakdown of the total apprentices and on-	the-job trainees shown in Table A.				
				PC 1356 (Pay 13/11/07)			

BC-1256 (Rev. 12/11/07)

RETURN WITH BID
Contract No. 76E70
ST CLAIR County
Section DIST 8 ITS 2011-3
Route FAI 64
District 8 Construction Funds

#### PROPOSAL SIGNATURE SHEET

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

	Firm Name	
(IF AN INDIVIDUAL)		
	Firm Name	
(IF A CO-PARTNERSHIP)		
,		
		Name and Address of All Members of the Firm:
<u> </u>		
_		
	Corporate Name	
	Ву	Signature of Authorized Representative
		•
		Typed or printed name and title of Authorized Representative
(IF A CORPORATION)	Attest	
(IF A JOINT VENTURE, USE THIS SECTION		Signature
FOR THE MANAGING PARTY AND THE SECOND PARTY SHOULD SIGN BELOW)	Business Address	
	Corporate Name	
	•	Signature of Authorized Representative
		Typed or printed name and title of Authorized Representative
(IF A JOINT VENTURE)	A	
	Attest	Signature
	Business Address	
If more than two parties are in the joint venture	nlease attach an o	ditional signature sheet
n more man two parties are in the joint venture	,, picase allacii all al	annonal signature sheet.

## **Return with Bid**



Electronic Bid Bond ID#

# Division of Highways Proposal Bid Bond

(Effective November 1, 1992)

	Item No.	
	Letting Date	
NOW ALL MEN BY THESE PRESENTS, That W	e	
s PRINCIPAL, and		
		as SURETY, are
n Article 102.09 of the "Standard Specifications for	ATE OF ILLINOIS in the penal sum of 5 percent of the total bid price, or for t Road and Bridge Construction" in effect on the date of invitation for bids, who ILLINOIS, for the payment of which we bind ourselves, our heirs, execu	he amount specified ichever is the lesser
	LIGATION IS SUCH, that whereas, the PRINCIPAL has submitted a bid propert of Transportation, for the improvement designated by the Transportation E	
and as specified in the bidding and contract docu- lifter award by the Department, the PRINCIPAL search of the required insurance con- performance of such contract and for the prompt pour the PRINCIPAL to make the required DBE sub- popertment the difference not to exceed the penal-	accept the bid proposal of the PRINCIPAL; and if the PRINCIPAL shall, with ments, submit a DBE Utilization Plan that is accepted and approved by the hall enter into a contract in accordance with the terms of the bidding and erages and providing such bond as specified with good and sufficient substant of labor and material furnished in the prosecution thereof; or if, in the hission or to enter into such contract and to give the specified bond, the PRI by hereof between the amount specified in the bid proposal and such larger a form the work covered by said bid proposal, then this obligation shall be null	Department; and if, contract documents urety for the faithful e event of the failure NCIPAL pays to the imount for which the
aragraph, then Surety shall pay the penal sum to ayment within such period of time, the Departme xpenses, including attorney's fees, incurred in any	the PRINCIPAL has failed to comply with any requirement as set forth in the the Department within fifteen (15) days of written demand therefor. If Surety in may bring an action to collect the amount owed. Surety is liable to the Experiment in which it prevails either in whole or in part.  IPAL and the said SURETY have caused this instrument to be signed by	y does not make ful
neir respective officers this da	y of A.D.,	
PRINCIPAL	SURETY	
(Company Name)	(Company Name)	
dy.	Ву:	
(Signature & Title)	(Signature of Attorney-in-Fac	ot)
	Notary Certification for Principal and Surety	
STATE OF ILLINOIS,		
County of		
	, a Notary Public in and for said County, do hereby	certify that
	and	
(Insert names	of individuals signing on behalf of PRINCIPAL & SURETY)	
	ame persons whose names are subscribed to the foregoing instrument on boson and acknowledged respectively, that they signed and delivered said instance forth.	
Given under my hand and notarial seal this	day of	A.D
My commission expires		
·	Notary Public	
narking the check box next to the Signature and T	oposal Bid Form, the Principal may file an Electronic Bid Bond. By signir tell line below, the Principal is ensuring the identified electronic bid bond has state of Illinois under the conditions of the bid bond as shown above.	

Company / Bidder Name

Signature and Title



#### **DBE Utilization Plan**

#### (1) Policy

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

#### (2) Obligation

Date

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

(3) Pro	ject and Bid Identification			
Complet	te the following information concerning the project and bid:			
Route		Total Bid		<del>_</del>
Section		Contract DBE Goal		
Project			(Percent)	(Dollar Amount)
County				
Letting [	Date			
Contrac	t No.			
Letting I	Item No.			
(4) Ass	surance			
	in my capacity as an officer of the undersigned bidder (or bidder my company: (check one)	ers if a joint venture), hereby	y assure the Dep	partment that on this
	Meets or exceeds contract award goals and has provided doo	cumented participation as fo	ollows:	
	Disadvantaged Business Participation percent			
	Attached are the signed participation statements, forms SBE use of each business participating in this plan and assuring the work of the contract.			
	Failed to meet contract award goals and has included good fa provided participation as follows:	ith effort documentation to r	neet the goals a	nd that my company has
	Disadvantaged Business Participation percent			
	The contract goals should be accordingly modified or waived. support of this request including good faith effort. Also attache required by the Special Provision evidencing availability and u business will perform a commercially useful function in the wo	ed are the signed participat se of each business particip	tion statements,	forms SBE 2025,
	Company	The "as read" Low Bidder is re	equired to comply with	h the Special Provision.
Ву		Submit only one utilization pla submitted in accordance with		
Title		Bureau of Small Business Ent	erprises	Local Let Projects

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

2300 South Dirksen Parkway

Springfield, Illinois 62764

Submit forms to the

Local Agency

	Illinois Department of Transportation		D	BE Participatio	n Statement	
Subcontract	or Registration	Letting				
Participation	on Statement		It	tem No.		
(1) Instructi	ons		C	Contract		
be submitte	ust be completed for each disadvantaged busine d in accordance with the special provision and w pace is needed complete an additional form for the	ill be attac				
(2) Work						
Pay Item No.	Description		Quantity	Unit Price	Total	
	<u> </u>			Total		
For any of the above items which are partial pay items, specifically describe the work and subcontract dollar amount:  (4) Commitment  The undersigned certify that the information included herein is true and correct, and that the DBE firm listed below has agreed to perform a commercially useful function in the work of the contract item(s) listed above and to execute a contract with the prime contractor. The undersigned further understand that no changes to this statement may be made without prior approval from the Department's Bureau of Small Business Enterprises and that complete and accurate information regarding actual work performed on this project and the payment therefore must be provided to the Department.						
	Signature for Prime Contractor		·	nature for DBE Firm		
Contact		Contac				
		Phone				
Firm Name		Firm N	ame			
Address _		Addres	ss			
City/State/Z	ip	City/St	ate/Zip			

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

WC \_\_\_\_\_

## PROPOSAL ENVELOPE



# **PROPOSALS**

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

Item No.	Item No.	Item No.

#### Submitted By:

Name:	
Address:	
Phone No.	

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

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

#### **NOTICE**

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

# CONTRACTOR OFFICE COPY OF CONTRACT SPECIFICATIONS

#### NOTICE

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

Contract No. 76E70 ST CLAIR County Section DIST 8 ITS 2011-3 Route FAI 64 District 8 Construction Funds



## SUBCONTRACTOR DOCUMENTATION

Public Acts 96-0795 and 96-0920, enacted substantial changes to the provisions of the Illinois Procurement Code (30 ILCS 500). Among the changes are provisions affecting subcontractors. The Contractor awarded this contract will be required as a material condition of the contract to implement and enforce the contract requirements applicable to subcontractors approved in accordance with article 108.01 of the Standard Specifications for Road and Bridge Construction.

If the Contractor seeks approval of subcontractors to perform a portion of the work, and approval is granted by the Department, the Contractor shall provide a copy of the subcontract to the Chief Procurement Officer within 20 calendar days after execution of the subcontract.

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

#### **RETURN WITH SUBCONTRACT**

## STATE ETHICAL STANDARDS GOVERNING SUBCONTRACTORS

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.

The certifications hereinafter made by the subcontractor are each a material representation of fact upon which reliance is placed should the Department approve the subcontractor. The chief procurement officer may terminate or void the subcontract approval if it is later determined that the bidder or subcontractor rendered a false or erroneous certification.

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

#### A. Bribery

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, or subcontracting under such a contract, as a result of a conviction under this Section of any employee or agent of the business if the employee or agent is no longer employed by the business and:
  - (1) the business has been finally adjudicated not guilty; or
  - (2) the business demonstrates to the governmental entity with which it seeks to contract, or which is signatory to the contract to which the subcontract relates, and that entity finds that the commission of the offense was not authorized, requested, commanded, or performed by a director, officer, or high managerial agent on behalf of the business as provided in paragraph (2) of subsection (a) of Section 5-4 of the Criminal Code of 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, and every subcontract subject to Section 20-120 of the Procurement Code shall contain a certification by the contractor or the subcontractor, respectively, that the contractor or subcontractor is not barred from being awarded a contract or subcontract under this Section and acknowledges that the chief procurement officer may declare the related contract void if any certifications required by this Section are false. A contractor who makes a false statement, material to the certification, commits a Class 3 felony.
- 2. The contractor or subcontractor certifies that it is not barred from being awarded a contract under Section 50.5.

#### 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, or enter into a subcontract, from the date of conviction until 5 years after the date of completion of the sentence for that felony, unless no person held responsible by a prosecutorial office for the facts upon which the conviction was based continues to have any involvement with the business.

2. Certification. Every bid submitted to and contract executed by the State and every subcontract subject to Section 20-120 of the Procurement Code shall contain a certification by the bidder or contractor or subcontractor, respectively, that the bidder, contractor, or subcontractor is not barred from being awarded a contract or subcontract under this Section and acknowledges that the chief procurement officer may declare the related contract void if any of the certifications required by this Section are false.

#### **RETURN WITH SUBCONTRACT**

### C. Debt Delinquency

1. The Illinois Procurement Code provides:

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

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

#### D. Prohibited Bidders, Contractors and Subcontractors

1. The Illinois Procurement Code provides:

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

The bidder or contractor or subcontractor, respectively, certifies in accordance with 30 ILCS 500/50-10.5 that no officer, director, partner or other managerial agent of the contracting business has been convicted of a felony under the Sarbanes-Oxley Act of 2002 or a Class 3 or Class 2 felony under the Illinois Securities Law of 1953 or if in violation of Subsection (c) for a period of five years from the date of conviction.. Every bid submitted to and contract executed by the State and every subcontract subject to Section 20-120 of the Procurement Code shall contain a certification by the bidder, contractor, or subcontractor, respectively, that the bidder, contractor, or subcontractor is not barred from being awarded a contract or subcontract under this Section and acknowledges that the chief procurement officer shall declare the related contract void if any of the certifications completed pursuant to this Section are false.

#### E. Section 42 of the Environmental Protection Act

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

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

Name of Subcontracting Company	
Authorized Officer	Date

#### RETURN WITH SUBCONTRACT

#### SUBCONTRACTOR DISCLOSURES

#### I. DISCLOSURES

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

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

#### B. Financial Interests and Conflicts of Interest

1. Section 50-35 of the Illinois Procurement Code provides that all subcontracts with a total value of \$25,000 or more from subcontractors identified in Section 20-120 of the Illinois Procurement Code, shall be accompanied by disclosure of the financial interests of the subcontractor. This disclosed information for the subcontractor, will be maintained as public information subject to release by request pursuant to the Freedom of Information Act, filed with the Procurement Policy Board, and shall be incorporated as a material term of the Prime Contractor's contract. Furthermore, pursuant to this Section, the Procurement Policy Board may recommend to allow or void a contract or subcontract based on a potential conflict of interest.

The financial interests to be disclosed shall include ownership or distributive income share that is in excess of 5%, or an amount greater than 60% of the annual salary of the Governor, of the subcontracting entity or its parent entity, whichever is less, unless the subcontractor is a publicly traded entity subject to Federal 10K reporting, in which case it may submit its 10K disclosure in place of the prescribed disclosure. If a subcontractor is a privately held entity that is exempt from Federal 10K reporting, but has more than 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.

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

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

2. <u>Disclosure Forms</u>. Disclosure Form A is attached for use concerning the individuals meeting the above ownership or distributive share requirements. 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.

#### C. Disclosure Form Instructions

#### Form A Instructions for Financial Information & Potential Conflicts of Interest

If the subcontractor is a publicly traded entity subject to Federal 10K reporting, the 10K Report may be submitted to meet the requirements of Form A. If a subcontractor is a privately held entity that is exempt from Federal 10K reporting, but has more than 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 subcontractor is not subject to Federal 10K reporting, the subcontractor must determine if any individuals are required by law to complete a financial disclosure form. To do this, the subcontractor should answer each of the following questions. A "YES" answer indicates Form A must be completed. If the answer to each of the following questions is "NO", then the NOT APPLICABLE STATEMENT on the second page of Form A must be signed and dated by a person that is authorized to execute contracts for the subcontracting company. Note: These questions are for assistance only and are not required to be completed.

1.	Does anyone in your organization have a direct or beneficial ownership share of greater than 5% of the bidding entity or parent entity? YES NO
2.	Does anyone in your organization have a direct or beneficial ownership share of less than 5%, but which has a value greater than 60% of the annual salary of the Governor? YES NO
3.	Does anyone in your organization receive more than 60% of the annual salary of the Governor of the subcontracting entity's or parent entity's distributive income? YES NO
	(Note: Distributive income is, for these purposes, any type of distribution of profits. An annual salary is not distributive income.)
4.	Does anyone in your organization receive greater than 5% of the subcontracting entity's or parent entity's total distributive income, but which is less than 60% of the annual salary of the Governor? YES NO
	(Note: Only one set of forms needs to be completed <u>per person per subcontract</u> even if a specific individual would require a yes answer to more than one question.)
	answer to any of these questions requires the completion of Form A. The subcontractor must determine each individual in the acting entity or the subcontracting entity's parent company that would cause the questions to be answered "Yes". Each form must be

subcontracting entity or the subcontracting entity's parent company that would cause the questions to be answered "Yes". Each form must be signed and dated by 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 subcontractor is responsible for the accuracy of any information provided.

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

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

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

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

#### ILLINOIS DEPARTMENT OF TRANSPORTATION

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

Subcontractor Name		
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). Subcontractors desiring to enter into a subcontract of a State of Illinois contract must disclose the financial information and potential conflict of interest information as specified in this Disclosure Form. This information shall become part of the publicly available contract file. This Form A must be completed for subcontracts with a total value of \$25,000 or more, from subcontractors identified in Section 20-120 of the Illinois Procurement Code, and for all open-ended contracts. A publicly traded company may submit a 10K disclosure (or equivalent if applicable) in satisfaction of the requirements set forth in Form A. See **Disclosure Form Instructions.** 

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

#### DISCLOSURE OF FINANCIAL INFORMATION

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

NAME:			
ADDRESS			
Type of own	ership/distributable income share	<b>)</b> :	
		Dortnorobin	other: (explain on separate sheet):
stock	sole proprietorship	Partnership	other. (explain on separate sheet).
	sole proprietorship of ownership/distributable income s		Other: (explain on separate sheet).

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

3.	salary exceeds 60% of the annual salary of the Governor, are you (i) more than 7 1/2% of the total distributable income of your fit corporation, or (ii) an amount in excess of 100% of the annual salary	entitled to receive rm, partnership, association or
4.	. If you are currently appointed to or employed by any agency of the salary exceeds 60% of the annual salary of the Governor, are you or minor children entitled to receive (i) more than 15 % in the agincome of your firm, partnership, association or corporation, or (ii) the salary of the Governor?	and your spouse gregate of the total distributable
	employment of spouse, father, mother, son, or daughter, including previous 2 years.	
If	your answer is yes, please answer each of the following questions.	YesNo
1.	. Is your spouse or any minor children currently an officer or employ Board or the Illinois Toll Highway Authority?	vee of the Capitol Development YesNo
2.	. Is your spouse or any minor children currently appointed to or emptof Illinois? If your spouse or minor children is/are currently agency of the State of Illinois, and his/her annual salary exceannual salary of the Governor, provide the name of your spouse a of the State agency for which he/she is employed and his/her annual salary of the State agency for which he/she is employed and his/her annual salary of the State agency for which he/she is employed and his/her annual salary of the State agency for which he/she is employed and his/her annual salary of the State agency for which he/she is employed and his/her annual salary of the State agency for which he/she is employed and his/her annual salary of the State agency for which he/she is employed and his/her annual salary of the State agency for which he/she is employed and his/her annual salary of the State agency for which he/she is employed and his/her annual salary of the State agency for which he/she is employed and his/her annual salary of the State agency for which he/she is employed and his/her annual salary of the State agency for which he/she is employed and his/her annual salary of the State agency for which he/she is employed and his/her annual salary of the State agency for which he/she is employed and his/her annual salary of the State agency for which he/she is employed and his/her annual salary of the State agency for which he/she is employed and his/her annual salary of the State agency for which he/she is employed and his/her annual salary of the State agency for which he/she is employed and his/her annual salary of the State agency for which he/she is employed and his/her annual salary of the State agency for which he/she is employed and his/her annual salary of the State agency for which he/she is employed and his/her annual salary of the State agency for which he/she is employed and his/her annual salary of the State agency for which he/she is employed and his/her annual salary of the State agency for which he/she is employed and his/her	appointed to or employed by any eeds 60% of the nd/or minor children, the name
3.	. If your spouse or any minor children is/are currently appointed to State of Illinois, and his/her annual salary exceeds 60% of the annual of 7/1/07) are you entitled to receive (i) more then 7 1/2% of the firm, partnership, association or corporation, or (ii) an amount annual salary of the Governor?	nual salary of the Governor, e total distributable income of your
4.	. If your spouse or any minor children are currently appointed to or State of Illinois, and his/her annual salary exceeds 60% of the annuare you and your spouse or minor children entitled to receive (i aggregate of the total distributable income of your firm, partnersh (ii) an amount in excess of two times the annual salary of the Government.	ual salary of the Governor, ) more than 15 % in the ip, association or corporation, or
unit of	ve status; the holding of elective office of the State of Illinois, the gor f local government authorized by the Constitution of the State of Illing currently or in the previous 3 years.	vernment of the United States, any
	ionship to anyone holding elective office currently or in the previous or daughter.	2 years; spouse, father, mother, YesNo
Ameri of the	intive office; the holding of any appointive government office of the Sica, or any unit of local government authorized by the Constitution of State of Illinois, which office entitles the holder to compensation in scharge of that office currently or in the previous 3 years.	the State of Illinois or the statutes
	onship to anyone holding appointive office currently or in the previour daughter.	s 2 years; spouse, father, mother, YesNo
(g) Emplo	oyment, currently or in the previous 3 years, as or by any registered	lobbyist of the State government. YesNo

(h)	Relationship to anyone who is or was a registered lobbyist in the previous 2 years; spouse, father, mother, son, or daughter.  YesNo
(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
3.	Communication Disclosure.
Se en su	close the name and address of each lobbyist and other agent of the bidder or offeror who is not identified in ction 2 of this form, who is has communicated, is communicating, or may communicate with any State officer of ployee concerning the bid or offer. This disclosure is a continuing obligation and must be promptly oplemented for accuracy throughout the process and throughout the term of the contract. If no person is ntified, enter "None" on the line below:
	Name and address of person(s):

**4. Debarment Disclosure.** For each of the persons identified under Sections 2 and 3 of this form, disclose whether any of the following has occurred within the previous 10 years: debarment from contracting with any governmental entity; professional licensure discipline; bankruptcies; adverse civil judgments and administrative

findings; and criminal felony convictions. This disclosure is a continuing obligation and must be promptly supplemented for accuracy throughout the procurement process and term of the contract. If no person is identified, enter "None" on the line below: Name of person(s): Nature of disclosure: **APPLICABLE STATEMENT** This Disclosure Form A is submitted on behalf of the INDIVIDUAL named on previous page. Under penalty of perjury, I certify the contents of this disclosure to be true and accurate to the best of my knowledge. Completed by: Signature of Individual or Authorized Officer Date NOT APPLICABLE STATEMENT Under penalty of perjury, I have determined that no individuals associated with this organization meet the criteria that would require the completion of this Form A. This Disclosure Form A is submitted on behalf of the SUBCONTRACTOR listed on the previous page. Signature of Authorized Officer Date

### ILLINOIS DEPARTMENT OF TRANSPORTATION

# Form B Subcontractor: Other Contracts & Procurement Related Information Disclosure

Subcontractor 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 subcontracts with a total value of \$25,000 or more, from subcontractors identified in Section 20-120 of the Illinois Procurement Code, and for all open-ended contracts.				
DISCLOSURE OF OTHER CONTRA	CTS, SUBCONTRACTS, AND PRO	OCUREMENT RELATED INFORMATION		
1. Identifying Other Contracts & Procurement Related Information. The SUBCONTRACTOR shall identify whether it has any pending contracts, subcontracts, including leases, bids, proposals, or other ongoing procurement relationship with any other State of Illinois agency:  Yes No  If "No" is checked, the subcontractor 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 FOLLO	WING STATEMENT MUST BE CH	ECKED		
•	Signature of Authorized Officer	Date		

## 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., April 29, 2011. 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. 76E70 ST CLAIR County Section DIST 8 ITS 2011-3 Route FAI 64 District 8 Construction Funds

This project consists of removing and replacing the existing dynamic message sign along with its span mounted attached conduit and controller cabinet located on Interstate 64 near Caseyville.

- 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

Gary Hannig, Secretary

### INDEX FOR SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS

#### Adopted January 1, 2011

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

ERRATA Standard Specifications for Road and Bridge Construction (Adopted 1-1-07) (Revised 1-1-11)

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22		Temporary Modular Glare Screen System (Eff. 1-1-00) (Rev. 1-1-07)	
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24		Work Zone Public Information Signs (Eff. 9-1-02) (Rev. 1-1-07)	
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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, 2007, 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 FAI Route 64 (I-64); Section Dist 8 ITS 2011-3; St. Clair County; Contract No. 76E70 and in case of conflict with any part or parts of said Specifications, the said Special Provisions shall take precedence and shall govern.

#### **LOCATION OF PROJECT**

The project location is WB I-64 MP10.8 at Station 466+75 on sign structure 8S082I064L010.8.

#### **DESCRIPTION OF PROJECT**

This work shall consist of:

- Removing the existing dynamic message sign 006410.8W.01S along with its span mounted attached conduit and controller cabinet as described in the REMOVE EXISTING ITS EQUIPMENT special provision and removing cables between the dynamic message sign and the controller cabinet, as described in Article 895.05 of the Standard Specifications,
- 2. Re-using the existing conduit attached to the sign support,
- 3. Re-using the existing conduit between the sign support and the controller foundation,
- 4. Re-using the existing service installation and its conduit and cables to the controller foundation.
- 5. Installing a CONTROLLER CABINET TYPE III, SPECIAL, as described in the these special provisions.
- 6. Installing a TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN, as described in these special provisions and
- 7. Relocating a cellular modem from the existing controller cabinet, as described in the RELOCATE EXISTING ITS EQUIPMENT TYPE A special provision.

#### MONTHLY LABOR SUMMARY AND ACTIVITY REPORTING SYSTEM

Effective: 1-1-1995 Revised June 2001

I. Monthly Labor Summary Report, Form SBE 148

The <u>prime contractor and each first and second tier sub-contractor</u>, (hereinafter referred to as "subcontractor") shall submit a certified Monthly Labor Summary Report directly to the District Engineer.

This report is in lieu of submittal of the Monthly Workforce Analysis Report, Form SBE 956.

This report must be received in District Eight no later than the tenth day of the next month.

This Report shall be submitted by the prime contractor and each subcontractor, for each consecutive month, from the start, to the completion of their work on the contract.

The data source for this Report will be a summation of all personnel and hours worked on each subject contract for the month based on weekly payrolls for that month.

The Monthly Labor Summary Report is required to be submitted in one of the following formats:

- a.) For contractors having IDOT contracts valued in the aggregate at \$250,000 or less, the report may be typed or clearly handwritten using Form SBE 148 for submittal to the District Engineer for District Eight.
- b.) For contractors having IDOT contracts valued in the aggregate at more than \$250,000, the report must be submitted in a specific "Fixed Length Comma Delimited ASCII Text File Format". The subject file format is detailed on the next page. Submittal of this file may be by 3.5 inch disk, modem, or by e-mail.
- II. Monthly Contract Activity Report, Form SBE 248

The prime contractor and each subcontractor shall submit a monthly report directly to the District Engineer reflecting their contract activity on all Illinois Department of Transportation contracts they have in force in District Eight.

This report shall be submitted for each consecutive month, from the start, to the completion of all contracts in District Eight.

The report must be received in the District Office no later than the tenth day of the next month.

Monthly Labor Summary and Activity Reporting System Codes and Formats

Indicated below for your reference are the Employee Codes and File Formats required for this system.

I.) Monthly Labor Summary Report, Form SBE 148

The following employee codes are to be used to identify each individual on the Summary Report:

- 1. Gender: M Male F Female
- 2. Ethnic Group: 1 White 2 Black 3 Hispanic
   4 American Indian/Alaskan Native 5 Asian/Pacific Islander
- 3. Work Classification: OF Official SU Supervisor FO Foremen CL Clerical CA Carpenter EO Operator ME Mechanic TD Truck Driver IW Ironworker PA Painter OT Other EL Electrician PP Pinefitter TE Technical LA Laborator T

EL - Electrician PP - Pipefitter TE - Technical LA - Laborer

**CM** - Cement Mason

4. Employee Status: O - Owner Operator J - Journeyman
 C - Company A - Apprentice T - Trainee

Specific "Fixed Length Comma Delimited ASCII File Format"

Order	Field Name	Type	<u>Size</u>
1	Contractor Number	Α	4
2	Contractor Reference Number	Α	6
3	Contract Number	Α	5
4	Period (07/28/2000)	D	10
5	SSN (111-11-1111)	Α	11
6	Name	Α	40
7	Gender	Α	1
8	Ethnic Group	Α	1
9	Work Classification	Α	1
10	Employee Status	Α	1
11	Total Hours (0000060.00)	N	10

File Name Conventions: (Contractor Number + Report Month/Year).Txt i.e. 20001298.Txt

#### II.) Monthly Contract Activity Report, Form SBE 248

The following activity codes are to be used to identify the contractor's contract status each month on the Monthly Activity Report, Form SBE 248:

A. Contract Status: 1 - Not Started 2 - Active 3 - No Work 4 - Suspended 5 - Complete

Failure to comply with this special provision may result in the withholding of payments to the contractor, and/or cancellation, termination, or suspension of the contract in whole or part.

Compliance with this Special Provision shall be considered incidental to the cost of the contract and no additional compensation will be allowed for any costs incurred.

All prime and subcontractors having contracts in the aggregate exceeding \$250,000 must provide a "Fixed Length Comma Delimited ASCII File" for approval prior to the start of construction.

This Special Provision must be included in each subcontract agreement.

The Department of Transportation is requesting disclosure of information necessary to accomplish the statutory purpose as outlined under 23CFR part 230 and 41CFR part 60.4 and the Illinois Human Rights Act. Disclosure of this information is REQUIRED. Failure to comply with this special provision may result in the withholding of payments to the contractor, and/or cancellation, termination, or suspension of the contract in whole or part.

Compliance with this Special Provision shall be considered incidental to the cost of the contract and no additional compensation will be allowed for any costs incurred.

This Special Provision must be included in each subcontract agreement.

#### TRAFFIC CONTROL PLAN

Effective: July 12, 1993 Revised: May 12, 1997

Traffic control shall be in accordance with 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 of 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:

701001 701006 701101 701106 701400 701406 701446 701901

In addition, the following Special Provision(s) will also govern traffic control for this project:

CONSTRUCTION AND MAINTENANCE SIGN SUPPORTS
TEMPORARY CLOSURE OF ALL LANES
TRAFFIC CONTROL AND PROTECTION, STANDARD 701406
TRAFFIC CONTROL AND PROTECTION, STANDARD 701446
FAILURE TO OPEN TRAFFIC LANES TO TRAFFIC FOR PEAK PERIODS

#### **CONSTRUCTION AND MAINTENANCE SIGN SUPPORTS**

Effective: April 21, 1981 Revised: November 1, 2006

This work shall be done according to Section 1106 of the Standard Specifications and Highway Standard 701901 except as herein modified.

All construction signs mounted on permanent support for use in temporary traffic control having an area of 10 square feet (1 square meter) or more shall be mounted on two 4 in x 4 in (100 mm x 100 mm) or two 4 in x 6 in (100 mm x 150 mm) wood posts.

Type A metal post (two for each sign) conforming to Article 1006.29 of the Standard Specifications may be used in lieu of wood posts. Type A metal posts used for these signs may be unfinished.

This work shall not be paid for separately; but shall be considered included in the cost of the traffic control items in this contract.

#### TEMPORARY CLOSURE OF ALL LANES

The Contractor will be permitted to temporarily close all lanes to traffic on WB I-64 provided the following traffic control requirements are met:

- 1. Acquire 2 weeks prior approval from the Resident Engineer and use of the Department's specified Changeable Message Sign's special messages.
- 2. Work will be permitted during specified times described in the LANE RESTRICTIONS SCHEDULE in the plans only, limited to periods less than 15 minutes, with an 1 hour interval or per the Engineer's directive before a subsequent closure.

3. Provide two (2) flaggers for the work site.

The Department will acquire the services of the Illinois State Police to facilitate the lane closures and re-openings.

#### TRAFFIC CONTROL AND PROTECTION, STANDARD 701406

A truck mounted attenuator (TMA) shall be required for crew protection during traffic control and protection required under Standard 701406.

The truck should have an actual weight of no less that 11,000 pounds and no greater than 26,000 pounds or as recommended by the TMA manufacturer. The truck should be positioned to allow a roll-ahead distance as follows (or as recommended by the TMA manufacturer):

Stationary operation – 100 ft. Moving operation – 160 ft.

The TMA shall also have a Type C (48" X 96" (min.)) arrow board attached

Note: When utilizing in a stationary work operation, the truck should be in neutral and the brakes engaged.

A Variable Message Sign board shall be placed in advance of closure of the lanes as directed by the Engineer.

The cost to pay for traffic control and protection required under Standard 701406 and the requirements(s) described above shall be included in the contract lump sum price for TRAFFIC CONTROL AND PROTECTION, STANDARD 701406.

#### TRAFFIC CONTROL AND PROTECTION, STANDARD 701446

A truck mounted attenuator (TMA) shall be required for crew protection during traffic control and protection required under Standard 701446.

The truck should have an actual weight of no less that 11,000 pounds and no greater than 26,000 pounds or as recommended by the TMA manufacturer. The truck should be positioned to allow a roll-ahead distance as follows (or as recommended by the TMA manufacturer):

Stationary operation – 100 ft. Moving operation – 160 ft.

The TMA shall also have a Type C (48" X 96" (min.)) arrow board attached

Note: When utilizing in a stationary work operation, the truck should be in neutral and the brakes engaged.

A Variable Message Sign board shall be placed in advance of closure of the lanes as directed by the Engineer.

The cost to pay for traffic control and protection required under Standard 701446 and the requirements(s) described above shall be included in the contract lump sum price for TRAFFIC CONTROL AND PROTECTION, STANDARD 701446.

#### FAILURE TO OPEN TRAFFIC LANES TO TRAFFIC FOR PEAK PERIODS

The Contractor is required to open the road to traffic at certain specified times described in the LANE RESTRICTIONS SCHEDULE in the plans. Should the Contractor fail to completely open and keep open the lanes to traffic, as described elsewhere in these Special Provisions, he shall be liable to the Department in the amount of \$1000.00 for each and every 15 minute interval or portion thereof, that a lane is blocked outside the allowable time limitations. No provisions of this clause shall be construed as a penalty but as liquidated and ascertained damages. Such damages may be deducted by the Department from any monies due the Contractor. These damages shall apply during the contract time and during any extensions of the contract time.

#### STATUS OF UTILITIES TO BE ADJUSTED

#### NO UTILITIES TO BE ADJUSTED

The above represents the best information of the Department and is only included for the convenience of the bidder. The applicable provisions of Sections 102, 103, and Articles 105.07 and 107.20 of the Standard Specifications for Road and Bridge Construction shall apply.

If any utility adjustment or removal has not been completed when required by the Contractor's operation, the Contractor should notify the Engineer in writing. A request for an extension of time will be considered to the extent the Contractor's operations were affected.

#### MAINTENANCE OF EXISTING ELECTRICAL DEVICES

Effective: Unknown Revised: November 1, 2006

This work shall be performed according to the Articles 801.10 and 801.11, and as modified herein.

The existing electrical devices which lie within the construction limits of this project will continue to be the maintenance responsibility of the Illinois Department of Transportation. Electrical devices are defined to mean highway lighting installations, traffic signals, flashing beacons, sign truss illumination units, changeable message signs, ITS, motorist aid call boxes, dewatering pumps, speed monitoring devices, traffic volume count stations, wrong-way movement detectors, following-too-close monitors, ice/fog detectors or any such devices or facilities the Department may have to maintain.

Any damage or malfunctions of these devices, observed by the Contractor, shall be reported immediately to the Department.

If it is determined by the Engineer that the Contractor is responsible for damage of any type to above-mentioned existing electrical devices, including underground wiring, as a result of negligence or poor workmanship, the Contractor shall be responsible for the repair of these facilities. These repairs shall be accomplished by whatever method the Department deems necessary. In the event the repairs are not made by the Contractor, the Contractor shall be required to reimburse the Department for such repairs within 60 days of receiving written notification of said damage.

The Department will continue to maintain the existing electrical devices until such time as the Contractor removes these devices, if required by this Contract. Any new, rebuilt, or modernized equipment installed as a requirement of this Contract shall be the maintenance responsibility of the Contractor until such time as this equipment is final inspected and found to be installed in a satisfactory manner by the Department. Existing individual equipment not involved with the work of this Contract will continue to be the maintenance responsibility of the Department.

#### REMOVE EXISTING ITS EQUIPMENT

This item consists of removing the existing ITS equipment, as shown on the plans. The Contractor shall be responsible for repairing or replacing any items damaged during the process to the satisfaction of the Engineer. Upon approval of the Engineer, the Contractor shall remove the following ITS equipment:

- A from 006410.8W.01S sign housing to the address mentioned below:
  - a. All Mother boards,
  - b. 15 volt Power supplies,
  - c. Daughter boards and
  - d. Line SIA cards
- B from controller cabinet to the address mentioned below:
  - a. 170 controller with 470 IB module,
  - b. Mux/Demux card,
  - c. line card and
  - d. UPS
- C the controller cabinet to the address mentioned below

The DMS sign housing and sign structure span mounted attached conduit shall become the property of the Contractor and shall be disposed of according to Article 202.03.

To facilitate removal of the dynamic message sign, the Contractor may, at his option, remove the complete horizontal section of the overhead sign structure. After installing the new dynamic message sign according to the special provision for Truss Mounted LED Dynamic Message Sign, the Contractor shall reinstall the horizontal section of the overhead sign structure and attached message sign according to Section 733

The removed equipment shall remain the property of the State of Illinois. Upon removal of the existing ITS equipment specified above, the Contractor shall deliver such equipment to the Illinois Department of Transportation, Regional Complex, 1102 Eastport Plaza Drive, Collinsville, Illinois 62234, ITS Equipment Room #120B. The location of any interim storage facility, prior to equipment delivery, shall be indoors and approved by the Engineer.

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

#### **CONTROLLER CABINET TYPE III, SPECIAL**

The cabinet shall be in accordance with the applicable portions of Section 863 of the Standard Specifications.

The TYPE III CABINET shall be a NEMA Type 3R (66"H X 24"W X 30"L) with (i) front and rear doors and (ii) four (4) shelves including one (1) for future use.

#### The cabinet shall have:

- 1. Two (2) Power panel surge protection (EDCO SHA-1250 or approved equal) (one (1) per phase)
- 2. One (1) Surge protection (Model ACP100 BWN3 or approved equal)
- 3. Two (2) GFCI receptacles
- 4. Four (4) circuit breakers (two (2) 15 Amp single pole, one (1) 15 Amp double pole and one (1) 20 Amp double pole main)
- 5. Single point ground
- 6. Heater lamp(s)
- 7. Fluorescent lamp(s)
- 8. Door locks & keys in accordance with the Article 1085.47(3)c (cabinet door shall be fitted with a number 2 Corbin lock)
- 9. Cabinet fan, thermostat and filtered vent
- 10. Uninterruptible power supply
- 11. Four shelves, one of which shall be a slide out, laptop computer work tray mounted on ball bearing glides
- 12. Environmentally hardened sign controller (paid for separately per the TRUSS MOUNTED CHANGEABLE MESSAGE SIGN" pay item)
- 13. RS-232 plug-in connection for laptop computer
- 14. RS-232 cable, 4 (minimum) foot long to connect the laptop computer to the sign controller
- 15. Cellular modem (paid for separately per the "CELLULAR MODEM" pay item)

Modifications to the panel and terminal facilities shall be made to the cabinet to meet the operating requirements of (i) the manufacturer of surveillance camera equipment, (ii) the field hardened controller equipment, and (iii) utility companies.

The cost of equipment housed inside the cabinet shall be included in the pay items TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN and CELLULAR MODEM.

The cabinet shall be configured as similar to the existing modified cabinets as practical.

This work shall be paid for at the contract unit price each for CONTROLLER CABINET TYPE III, SPECIAL.

#### RELOCATE EXISTING ITS EQUIPMENT TYPE A

This item consists of relocating the existing ITS equipment, as shown on the plans. The Contractor shall be responsible for repairing or replacing any items damaged during the process to the satisfaction of the Engineer. Upon approval of the Engineer, the Contractor shall relocate the existing:

 0064 MP10.8 cellular modem complete with power supply and conductors for the DMS controller from the existing controller cabinet to the proposed 0064 MP10.8 controller cabinet

The location of any interim storage facility, prior to equipment relocation, shall be indoors and approved by the Engineer.

This work will be paid for at the contract unit price each for RELOCATE EXISTING ITS EQUIPMENT TYPE A, which price shall be payment in full for relocating all of the above-listed equipment as specified above.

#### TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN

#### GENERAL REQUIREMENTS

Equipment to be furnished at the dynamic message sign (DMS) field site shown in the plans shall include, but not be limited to the following:

CONTROLLER CABINET TYPE III, SPECIAL housed LED DMS controller, all necessary electronics and communications hardware for a fully functional LED DMS, all necessary power cables, data cables and pull rope between the sign and LED DMS controller, and required LED DMS mounting hardware.

The sign shall be designed for a minimum life of 20 years.

The DMS shall be compatible with the Department's existing Gigabit Ethernet over single-mode fiber network. It shall communicate without error for all of the applicable National Transportation for Intelligent Transportation System Protocol (NTCIP) standards for DMS and, thus, be compliant with all applicable NTCIP standards for DMS. The DMS shall be compatible with the Department's existing Advanced Traffic Management System (ATMS) software and shall support all mandatory objects of all mandatory conformance groups of NTCIP for DMS. All costs associated with compatibility testing and coordination will not be paid for separate, and shall be included in the cost of the DMS.

#### LED DYNAMIC MESSAGE SIGN (DMS)

The LED DMS shall enable the display of text, consisting of a string of alphanumeric and other characters. Each character shall be formed by a matrix of luminous pixels. The matrix of a standard character shall consist of 35 pixels over 5 columns and 7 rows. Each LED DMS shall be minimum 27 pixel high x 125 pixel wide, full matrix and capable of displaying three lines of text using a standard 5 wide x 7 high font size. Each line shall be capable of displaying a minimum of 10 alphanumeric characters with 2 blank pixels spacing between each 5 x 7 character for maximum readability and a minimum of 14 alphanumeric characters with only one blank pixel between each character. All display elements and modules shall be solid state. No mechanical or electromechanical elements or shutters shall be used.

All characters, symbols, and digits shall be 18" nominal character size and shall be clearly visible and legible at a distance of 1100' within a minimum 30 degree cone of vision centered around the optical axis of the pixel.

The signs shall be capable of displaying the following:

- A static message
- A flashing message
- Alternating messages, either flashing or static

The changing from one message to another shall be instantaneous.

All field equipment shall remain fully functional over an ambient temperature range of -40° F to +149°F with relative humidity of up to 95%. All field equipment enclosures shall be designed to withstand the effects of sand, dust, and hose-directed water. All connections shall be watertight.

The size of the sign, along with other dimensions and configuration details of the sign covered by this specification, can be seen in Table 1.2 below:

TABLE 1.2: SPECIFIC SIGN DIMENSIONS / REQUIREMENTS		
Sign type:	Walk-in Access	
Matrix type:	Full	
Nominal character height:	18.0 inches	
No. lines:	3	
LED manufacturer/part number (if applicable):	Agilent(Avado) HLMP-EL30-STKDD or Agilent(Avado) HLMP-EL33	
LED color/wavelength:	Amber / 592 <i>n</i> m	
LED viewing angle:	30°	
LED pixel brightness:	40 Cd @ 25mA	
Display (H x W): Display Module (H x W):	27 x 125 minimum (full matrix) 7 x 5 120/240 +12/-23 VAC, 60 Hz, single	
Power Service:	phase; 40 amps/leg (2 legs required)	
Power consumption range:	3 - 18 Amps (@120VAC)	
Maximum Width:	30 feet, 8 inches	
Maximum Height:	8 feet, 6 inches	
Maximum Depth:	37 inches	
Approximate weight range:	4000 – 5200 lbs	
Sign Controller Location:	Ground-mounted	

#### **SUBMITTALS**

The intent of this section is to summarize all the submittals required in the specifications. If a submittal is inadvertently omitted from this summary, but is included in another section of the specification, the DMS Manufacturer is still required to submit the information.

Submittal Description	Time Requirements	Department's Action
Experience	Include in Proposal	Review/Score
References	Include in Proposal	Review/Score
Factory Acceptance Test	After award and 60 days	Review/Approve or Reject
(FAT) procedures	before test	
Factory Acceptance Test	After award and 30 days	Determine if a Rep. will
dates	before test	attend
Factory Acceptance Test	14 days after FAT	Review/Approve or Reject
results		· · · · · · · · · · · · · · · · · · ·
Stand Alone Test (SAT)	After award and 60 days	Review/Approve or Reject
procedures	before test	
Stand-Alone Test dates	After sign is installed	Determine if a Rep. will attend
Stand-Alone Test results	14 days after SAT	Review/Approve or Reject
System Test Procedures	After award and 60 days before test	Review/Approve or Reject
System Test dates	7 days before test	Determine if a Rep. will attend
System Test results	14 days after system test	Review/Approve or Reject
90 day test procedures	After award and 60 days before test	Review/Approve or Reject
NTCIP Testing	Prepare to have done for Short-listed Manufacturers	Perform test and score results
Shop Drawing Submittals	Within 15 days of award of	Review/Accept or Reject
	contract	within 15 days of receipt
Sign Truss Details	Within 15 days of award of	Review/Accept or Reject
	contract	within 15 days of receipt
Operator's Manuals	After installation and before final payment	Keep for future reference
Software Manuals	After installation and before final payment	Keep for future reference
Maintenance Manuals	After installation and before final payment	Keep for future reference
As-Builts	After installation and before final payment	Keep for future reference
DMS Weight (if over 5000	Within 15 days of award,	Review/Accept or Reject
lbs) and size (if over spec	part of Shop Drawing	within 15 days of receipt
amounts)	submittal	
DMS Housing Fascia	Within 15 days of award,	Review/Accept or Reject
-	part of Shop Drawing submittal	within 15 days of receipt
Declaration of version of	Within 15 days of award,	Review/Accept or
NTCIP Standards,	part of Shop Drawing	Reject within 15 days
compliance, etc.	submittal	of receipt

Declaration of compliance of NTCIP 1101	Within 15 days of award, part of Shop Drawing submittal	Review/Accept or Reject within 15 days of receipt
Declaration of compliance of NTCIP 1201	Within 15 days of award, part of Shop Drawing submittal	Review/Accept or Reject within 15 days of receipt
Declaration of compliance of NTCIP 1203	Within 15 days of award, part of Shop Drawing submittal	Review/Accept or Reject within 15 days of receipt
Declaration of compliance of NTCIP 2001	Within 15 days of award, part of Shop Drawing submittal	Review/Accept or Reject within 15 days of receipt
Declaration of compliance of NTCIP 2101	Within 15 days of award, part of Shop Drawing submittal	Review/Accept or Reject within 15 days of receipt
Declaration of compliance of NTCIP 2102	Within 15 days of award, part of Shop Drawing submittal	Review/Accept or Reject within 15 days of receipt
Declaration of compliance of NTCIP 2104	Within 15 days of award, part of Shop Drawing submittal	Review/Accept or Reject within 15 days of receipt
Declaration of compliance of NTCIP 2201	Within 15 days of award	Review/Accept or Reject within 15 days of receipt
Agenda for training session	30 days before training	Review and comment
Certification, Warranty and/or Guarantee	Upon final acceptance, or sooner	Keep on file

The DMS Manufacturer shall also submit any additional documentation not previously described, but required by specification and necessary to fully describe the DMS and associated equipment including complete technical information, photographs, instruction manuals, security provisions, etc.

The DMS Manufacturer will be required to complete the sign mounting bracket structural details and the sign mounting bracket structural calculations. The miscellaneous members and hardware shall be furnished by the DMS Manufacturer.

#### QUALIFICATIONS FOR THE DMS MANUFACTURER

The DMS Manufacturer shall submit the references as specified below. Reference data shall include current name and address of organization, and the current name and telephone number of an individual from the organization who can be contacted to verify system operation, as well as date of system installation.

#### **EXPERIENCE REQUIREMENTS**

The DMS Manufacturer shall submit at least two references, preferably from other state departments of transportation, that are successfully operating a highway LED full matrix DMS system, supplied by this manufacturer under the current corporate name, which otherwise meets this specification, for a period of no less than two years.

The LED DMS systems submitted shall be full-matrix and able to display at least 3 lines of 25 characters per line, 18" characters and have walk-in access housings.

#### REFERENCES

The DMS Manufacturer shall submit three references, preferably from other state departments of transportation, that are successfully operating a multi-unit, multi-lane state or interstate highway, permanently-mounted, overhead dynamic message sign system supplied by this manufacturer under the current corporate name, for a period of no less than five years.

#### ISO 9001:2000 REQUIREMENTS

The company that designs and manufactures the LED DMS shall be currently ISO 9001:2000 certified as of the bid date for this project. The scope of this company's ISO 9001:2000 certification shall be for the manufacturing of Dynamic Message Sign Systems. The facility where this company actually designs and manufactures the LED DMS parts shall be ISO 9001:2000 certified. This company, this scope and the address of this facility shall all be listed on the ISO 9001:2000 certificate. This ISO 9001:2000 certificate shall be provided with the bid. The name, phone number and address of both the Authorized ISO 9001:2000 Registrar that certified this company and the Authorized ISO 9001:2000 Accreditation Body that accredited this Registrar shall be provided with the bid. ISO 9002 and ISO 9003 certifications are not adequate and do not meet this requirement. The Department will evaluate the company's submittals for quality assurance and determine if the quality control/quality assurance requirements are met.

#### MATERIAL REQUIREMENTS GENERAL

All materials furnished, assembled, fabricated or installed under this item shall be new, corrosion resistant and in strict accordance with the details shown in the plans and as detailed in this specification. All details and functionality listed in this specification will be thoroughly inspected and tested by the department. Failure to meet all details and functionality detailed in this specification shall be grounds for rejection of the equipment.

The equipment design and construction shall utilize the latest available techniques with a minimum number of different parts, subassemblies, circuits, cards and modules to maximize standardization and commonalty. The equipment shall be designed for ease of maintenance. All component parts shall be readily accessible for inspection and maintenance. Test points shall be provided for checking essential voltages.

The sign shall be designed for a minimum life of 20 years.

The sign shall be designed and constructed so as to present a clean and neat appearance. Poor workmanship shall be cause for rejection of the sign.

All cables shall be securely clamped/tied in the sign housing. No adhesive attachments will be allowed.

The performance of the sign shall not be impaired due to continuous vibration caused by wind, traffic or other factors. This includes the visibility and legibility of the display.

The DMS hardware, along with the sign controller hardware, software and firmware, shall support all DMS functionality described throughout the remaining specification sections.

The DMS assembly shall be listed by an accredited 3<sup>rd</sup> party testing organization for conformance to Underwriters Laboratories (UL) standards 48 (Standard for Electric Signs) and 1433 (Control Centers for Changing Message Signs). Proof of this conformance shall be provided with submittal materials.

#### **ELECTRONIC MATERIALS AND COMPONENTS**

All electronic components, except printed circuit boards, shall be commercially available, easily accessible, replaceable and individually removable using conventional electronics repair methods. All electronic assemblies shall meet or exceed IPC 610A workmanship standards.

#### PRINTED CIRCUIT BOARDS

Each pixel shall have a device attached to the printed circuit board (PCB) to hold and protect the LEDs. These devices shall:

- 1. Hold the LEDs perpendicular to the display modules within 0.5 degree,
- 2. Prevent the LEDs from being crushed or bent during handling,
- 3. Protect the LEDs from damage when the display module is laid on the front surface (the side that the LED lamps are located),
- 4. Not put any stress on the LEDs due to differentials of expansion and contraction between the device and the LEDs over the herein specified temperature range,
- 5. Not become loose or fall off during handling or due to vibrations,
- 6. Not block airflow over the leads of the LEDs.
- 7. Securely hold each LED while allowing a gap between the device and a minimum of 95% of the body of each LED for airflow,
- 8. Not block the light output of the LEDs at the required viewing angle,
- 9. Be black in color to maximize contrast.

The LEDs shall be protected from the outside environmental conditions, including moisture, snow, ice, wind, dust, dirt and UV rays.

Printed Circuit Board (PCB) design shall be such that components may be removed and replaced without damage to boards, traces or tracks.

Only FR-4 0.062 inch minimum thickness material shall be used. Inter component wiring shall be copper clad track having a minimum weight of 2 ounces per square foot with adequate cross section for current to be carried. Jumper wires will not be permitted, except from plated-through holes to component. The maximum number of jumper wires allowed per circuit board is two.

All Printed Circuit Boards (PCBs), except for the power supply PCBs, UPS PCBs, modem PCBs and sign controller PCBs, shall be completely conformal coated with a silicone resin conformal coat.

All PCBs shall be finished with a solder mask and a component identifier silk screen.

#### **COMPONENTS**

All external screws, nuts, and locking washers shall be stainless steel. No self-tapping screws shall be used. All parts shall be made of corrosion resistant materials, such as plastic, stainless steel, aluminum or brass. All materials used in construction shall be resistant to fungus growth and moisture deterioration.

Dissimilar metals shall be separated by an inert dielectric material without compromising any intended electrical grounding functions.

#### **CAPACITORS**

The DC and AC voltage ratings as well as the dissipation factor of a capacitor shall exceed the worst case design parameters of the circuitry by 50%.

A capacitor which can be damaged by shock or vibration shall be supported mechanically by a clamp or fastener.

Capacitor encasements shall be resistant to cracking, peeling and discoloration.

#### RESISTORS

Any resistor shall not be operated in excess of 50% of its power rating.

#### SEMICONDUCTOR DEVICES

All transistors, integrated circuits, and diodes shall be a standard type listed by EIA and clearly identifiable.

#### CONNECTORS

All PCB edge connectors and cable connectors, except for those found in the power supply, UPS, modem and sign controller, shall be base plated with nickel and finished with 30 microinches of gold.

#### MECHANICAL COMPONENTS

All external screws, nuts, and locking washers shall be stainless steel. No self-tapping external screws shall be used. All parts shall be made of corrosion resistant materials, such as plastic, stainless steel or aluminum. All materials used in construction shall be resistant to fungus growth and moisture deterioration. Dissimilar metals shall be separated by an inert dielectric material.

#### DMS HOUSING

#### **GENERAL CONSTRUCTION**

The sign shall be designed and constructed so as to present a clean and neat appearance. Poor quality work shall be cause for rejection of the sign. The equipment within the sign housing shall be protected from moisture, dust, dirt and corrosion. The sign shall be constructed of aluminum alloy 3003-H14, 5052-H32, or an approved equal which shall not be less than 1/8 inch thick. Framing structural members shall be made of aluminum alloy 6061-T6, 6063-T5, or approved equal. Seams shall be continuously welded by an inert gas process. The sign shall be designed for a minimum life of 20 years.

The sign enclosures shall be capable of withstanding wind loadings of 120 mph without permanent deformation.

The performance of the signs shall not be impaired due to continuous vibration caused by wind, traffic or other factors. This includes the visibility and legibility of the display.

The presence of ambient magnetic or electromagnetic fields, including those created by any components of the system, shall have no deleterious effect on the performance of the system. The system shall not conduct or radiate signals which will adversely affect other electrical or electronic equipment including, but not limited to, other control systems, data processing equipment, audio, radio and industrial equipment.

#### Walk-in Housing

Walk-in housing dimension shall not exceed 8'6" tall, 30'-8" wide, and 37"deep. The total weight added to the sign structure shall be no greater than 5200 pounds.

The walk-in housing dimensions and total weight shall be as shown in this specification or in the plans. The walk-in housing shall protect all internal components from rain, ice, dust, and corrosion in accordance with NEMA enclosure Type 3R standards as described in NEMA Standards Publication 2501997, Enclosures for Electrical Equipment (1000 Volts Maximum).

The sign housing shall be engineered and P.E. certified to 2001 AASHTO and NCHRP Report 411 specifications for AASHTO basic wind speeds. The sign housing shall also be engineered and P.E. certified to withstand group loading combinations as outlined in 2001 AASHTO including: sign weight, repair personnel and equipment, ice and wind loads, and shall also meet strength requirements for truck-induced gusts as specified in NCHRP Report 412. The sign housing shall be engineered to withstand snow loading (40 PSF) for applicable geographical regions.

Inside the sign housing, all 120 VAC service lines shall be independently protected by a thermomagnetic circuit breaker at the housing entry point. All 120 VAC wiring shall be located in conduit, pull boxes, raceways or control cabinets. No 120 VAC wiring shall be exposed to the inside or outside of the sign housing. The sign housing shall not be considered as a raceway or control cabinet.

#### Exterior Housing Panel

The exterior housing, door and end panels shall be 3003-H14, 5052-H32 or approved equal aluminum alloy sheet, 1/8 inch minimum thickness.

The number of seams in the top housing panel shall be kept to a minimum. All seams in the top housing panel shall be continuously welded.

All exterior seams and joints shall be continuously welded by an inert gas process.

The exterior housing panel material shall be stitch welded to the internal structural members to form a unitized structure.

#### Interior Structure

The interior structural members shall be 6061-T6, 6063-T5, or approved equal aluminum alloy with 3/16 inch minimum wall thickness.

#### Mounting

The housing shall be designed to accommodate mounting on the rear vertical plane only.

The angular alignment of the sign housing shall be designed to optimize the viewing angle based on the sign location and 4-lane configuration as shown in the plans.

#### Housing Face

The internal structural members shall be extruded aluminum and shall accommodate both display module mounting and air distribution. They shall retain the display modules in a manner to facilitate easy and rapid removal of each display module without disturbing adjacent display modules.

The external fascia panels shall be extruded aluminum and shall be designed to keep heat conduction to a minimum between the exterior surfaces and the interior components. They shall incorporate provisions for retaining and sealing the modular lens panels and have a closed cell resilient gasket. They shall be finished with a matte black, KYNAR 500, or approved equal, and be removable from within the main sign housing. The external fascia perimeter panels shall be a minimum of 12" wide. The external fascia panels shall be thermally isolated from the rest of the sign housing. There shall be a minimum amount of metal contact between the external fascia panels and the rest of the sign housing.

The lens panel assembly shall be modular in design, interchangeable without misalignment of the lens panel and the LED pixels and removable from within the main sign housing.

The lens panel aluminum mask shall be 0.040" minimum thickness and panel interiors contain 0.236-inch-polycarbonate sheeting. It shall be perforated to provide an aperture for each pixel on the display modules. Each aperture shall be as small as possible, without blocking the LED light output at the required viewing angle.

The lens panel clear glazing shall be 90% UV opaque, non-breakable, polycarbonate GE LEXAN XL, ¼" minimum thickness and clear in color shall be laminated to the inside surface of the lens panel aluminum mask using an acrylic foam tape joining system, 3M Scotch VHB, or approved equal, to form the lens panel assembly.

#### Surface Finish

The face shall be finished with a matte black, factory applied PVDF resin. All other exterior and all interior surfaces shall be a natural aluminum mill finish. No painted surfaces will be allowed.

#### Accessibility

A three-point lockable aluminum access door shall be provided at each end of the housing as shown in the plans to enable easy access to the walk-in housing. This shall make it possible for a single maintenance person to easily access the display modules.

This access door shall be 2032 mm X 610 mm (6'-8" X 2'-0") minimum. The door shall be fitted with a handle operated locking mechanism, closed cell neoprene gasket and a stainless steel hinge.

The locking mechanism shall be a heavy-duty, industrial-strength, three-point, deadbolt, center-case lock with a zinc finish. There shall be a handle on both the inside and the outside of the door. These handles shall be heavy-duty, industrial-strength with a zinc finish on the inside handle and a chrome-plated finish on the outside handle. The outside handle shall be padlockable.

Included in the door assembly shall be a device to hold the door open at 90 degrees

#### INTERNAL WALKWAY

The sign housing shall have a continuous 455 mm (18-inch) wide walkway extending the full length of the sign. The walkway shall be made of 3 mm (1/8 inch) diamond tread 6061-J6 or 3003-H22 aluminum. All edges of the walkway grating must be finished to eliminate sharp edges or protrusions.

The sign housing shall be a minimum of 863 mm (2' 10") wide to allow adequate room inside the sign housing for maintenance personnel. There shall be 455 mm (18 inches) of clear area between all equipment along the entire length of the sign housing from the 455 mm (18-inch) walkway up to 1829 mm (6 feet) above the 455 mm (18-inch) walkway.

#### **VENTILATION SYSTEM**

The ventilation system shall be sufficiently cool both the display modules and the sign housing interior.

The sign housing shall have a minimum of two (2) exhaust ports. Each exhaust port shall be filtered and protected by an aluminum screened louver assembly, or other conformable method. The exhaust filters shall be sized for the required air volume.

The ventilation system shall have a minimum of two (2) blowers and shall exchange the DMS air volume to sufficiently cool the interior of the sign.

The filters shall be 1" thick, permanent, reusable, filters. These filters shall be easily removable from within the sign housing without the use of tools. Each sign shall include a complete set of replacement filters.

The internal housing temperature shall be automatically verified on command from the DMS Client software and existing IDOT ATMS software. Any over temperature condition shall cause an error message to be sent to the DMS Client software and existing IDOT ATMS software when the sign controller is polled.

The ventilation system shall be designed to keep the internal DMS air temperature from exceeding +140° F, even when the outdoor ambient temperature is as high as +115° F.

The ventilation system shall be activated by temperature sensors.

Temperature sensors shall be continuously measured and monitored by the sign controller. A temperature greater than a user selectable critical temperature shall cause the sign message to go to blank and an error message shall be sent to the DMS Client software and existing ATMS software automatically. The DMS Client software, existing ATMS software and personnel on site with laptop computer at local control box position shall have the ability to read all temperature measurements from the sign controller.

When the sign reaches a temperature of 130° F, it shall cut the LED intensity to half of its normal brightness to keep the sign from reaching the critical temperature and shutting down.

The temperature sensors shall have an accuracy of +/-3° F and a range from -40° F to +150° F.

The ventilation system shall be equipped with a manual override timer to provide ventilation for service personnel. The timer shall have a maximum "on" time of two (2) hours.

#### INTERNAL LIGHTING AND ELECTRICAL OUTLETS

The sign housing shall be furnished with four 100 watt incandescent lights with heavy duty fixtures. The lamps shall be spaced evenly above the walkway and shall be fitted with protective guards. The light switch shall be located near the door.

The sign housing shall be equipped with two 15 amp 120V (+/- 10%) grounded GFCI protected duplex electrical receptacles to accommodate inspection and maintenance requirements. One of these receptacles shall be located at each end of the sign housing. Additionally, the sign housing shall be equipped with sufficient and readily available power source in order to accommodate a fiber optic modem and all other necessary communications equipment required to transmit data from the sign to nearest controller cabinet with fiber optic communications for the backbone. The sign housing and display panel shall be designed to minimize any visible internal light from the outside of the DMS when the internal DMS lighting is on during nighttime maintenance activities.

#### ANTI-CONDENSATION/DEFOG/DEFROST

An effective, field-proven defogging and anti-condensation system shall be incorporated into the overall functionality of the sign. The face shall be heated to prevent fogging, frost and condensation.

A humidity sensor shall be provided and monitored by the sign controller from zero percent to 100 percent relative humidity in 1 percent or fewer increments. The sensor shall operate and survive from 0 percent to 100 percent relative humidity. The sensor shall have an accuracy that is better than +/- five percent relative humidity.

The sign controller shall read the internal temperature sensors, external ambient temperature sensor and the humidity sensor. The sign controller shall use these readings in an algorithm that turns on the heater and/or the fans at the appropriate times to reduce both frost on the face of the sign and condensation on the display modules and other electronic circuitry.

#### BASE BOARD HEATERS

Baseboard heaters shall be included in the sign housing. These heaters shall be capable of remote start up in anticipation of winter field service.

#### LAPTOP SHELF

The interior of the sign shall include a fold-down shelf for a laptop computer.

#### **DISPLAY MODULES**

#### GENERAL

Display modules consisting of nominal 18" high characters shall be assembled to form the specified full matrix message configuration. These circuit boards shall be designed and constructed to allow a single service technician to troubleshoot, isolate, remove, and replace these boards with minimal impact to the overall operation of the sign.

All LED boards shall be fully interchangeable and not require any address switches or adjustment when interchanged or placed in service. Module addressing, where required, shall be accomplished in the connector. The DMS Manufacturer shall document all LED testing for color so that replacement LED boards shall match existing amber color.

Pixel status and diagnostics shall include string failure, pixel failure and failed pixel location (line, module, row and column numbers). Replacement of a complete display module shall be possible using only simple hand tools. Interconnection of modules shall be through connectors only. All connectors shall be keyed to preclude improper hookups.

The display modules shall be approximately 3/4" behind the lens panel assembly.

#### LED AND PIXEL CHARACTERISTICS

Each pixel shall be a maximum of 1-3/8" in diameter. The LEDs in each pixel shall be clustered to maximize long range visibility. The average light intensity of the LEDs in each pixel shall be 3 candela minimum. All pixels in the sign shall have equal color and on-axis intensity. All pixels shall have a minimum on-axis intensity of 40 candela @ 20 mA forward current, with an overbright capability of 60 cd.

All pixels in all signs in this project, including the spare parts, shall have equal color and on-axis intensity. The pixel strings shall be powered from a regulated DC power source and the LED current shall be maintained at the LED manufacturer's specified nominal operating current to maximize life of the pixel. The failure of an LED in one string within a pixel shall not affect the operation of any other string or pixel. Pixel power drawn from the DC supplies shall not exceed 1.5 W per pixel, including the driving circuitry.

The LEDs shall be individually mounted directly to a printed circuit board and shall be easily replaceable and individually removable using conventional electronics repair methods.

#### DISPLAY MODULE CHARACTERISTICS

All display modules shall be mechanically, electrically, and optically interchangeable within the sign. Each display module shall contain a connector for power and a connector for controls and data.

The display module contains the control and memory elements and provides the signals to switch the LED pixels. All LED boards and driver boards shall be fully interchangeable and shall not require any manual addressing switches or adjustment when interchanged or placed in service. The driver board shall contain the solid state electronics necessary to control pixel data and read pixel status. A diagnostic indicator shall be included on each daughter board to provide visual indication of the operational status of the LED module.

LED drive circuitry supports a minimum refresh rate of 100 frames per second and is able to support 255 intensity levels.

These pixels shall be arranged uniformly, capable of displaying an 18" dot matrix character. All LEDs shall be individually and directly mounted to the LED circuit board to form the LED board. The LED board shall also hold the supporting control electronics and have an extruded aluminum frame. The display modules shall be mounted to the display face in a manner that facilitates easy and rapid removal of each display module without disturbing adjacent display modules. Replacement of a complete display module shall be possible without the use of any tools.

Failure of any LED in the pixel shall not affect the ability to control any other pixel and remaining LEDs in that pixel.

All LEDs shall be mounted so that their mechanical axis is normal +/-1.00° to the face of the sign to ensure brightness uniformity over the face of the sign. The sign manufacturer shall propose a method, acceptable to the Engineer, to test the LEDs in the display modules to ensure they meet these criteria.

There shall be a power distribution system that connects each display module to all power supplies and minimizes the voltage drop over the face of the sign.

The LEDs shall be protected from the outside environmental conditions, including, but not limited to, moisture, snow, ice, wind, dust, dirt, and UV rays.

Pixel brightness shall be controlled by pulse width modulation of the DC current with an adjustable duty cycle of 2.0% to 99.9% in 0.5% or finer increments. The operational status of the LEDs in each pixel shall be tested and then transmitted to the DMS Client software, existing ATMS software, or laptop computer on site at local control box location. The pixel status test shall distinguish the difference between full-out, and fully stuck on pixels. A list of defective pixels shall be provided, listing x coordinate (from left hand edge of sign), y coordinate (measured down from the top of the sign) and the failure type (stuck on or stuck off) for each defective pixel. Pixels shall be arranged as such so that coordinate (1,1) is in the upper left corner and coordinate (125,27) is in the lower right corner.

The state of the LEDs (full on, or off) in each pixel of the sign shall be read by the sign controller when it is polled or when a message is downloaded from the DMS Client software, existing ATMS software, or laptop computer on site at local control box location, and shall allow the DMS Client software or laptop computer on site at local control box location show the actual message that is visibly displayed on the sign in a WYSIWYG format, including any full-out or fully stuck on pixels.

All printed circuit boards, except the LED circuit board, shall be conformal coated. The LED board shall be conformal coated except at the pixels. All printed circuit boards, including the LED circuit board, shall have a solder mask and a component identifier silk screen. The display modules shall be assembled in a full matrix configuration.

#### CHARACTERS DISPLAYED

The sign shall be capable of displaying ASCII characters 32 through 126 and the following characters at any location in the message line:

```
"A" thru "Z"- All upper case letters.

"0" thru "9"- All decimal digits.

Space (i.e., ASCII code 0x20).

Punctuation marks shown in brackets [.,!?-''" / ()]

Special characters shown in brackets [# & * +< >]

3 pixel wide dash
```

The display modules shall be rectangular, and shall have an identical vertical and horizontal pitch between pixels. The pitch shall be no greater than 2 3/4".

The separation between the last column of one display module and the first column of the next shall be equal to the horizontal distance between the columns of a single display module.

The characters shall be legible under all light conditions at a distance of 1100' within a 30° degree cone of vision centered around the optical axis of the pixel.

The sign shall be the proper brightness in all lighting conditions for optimum legibility. It shall be bright enough to have a good target value, but not to the point where the pixels bloom, especially in low ambient light level conditions, as determined by the Department ITS Engineer, or those acting in his/her behalf.

The brightness and color of each pixel shall be uniform over the entire face of the sign within the fifteen degree cone of vision from 1100' to 200' in all lighting conditions. Non-uniformity of brightness or color over the face of the sign under these conditions shall be cause for rejection of the sign.

#### **DISPLAY MATRIX**

The DMS shall be a full-matrix configuration. A matrix with a minimum of  $27 \times 125$  pixels must be supplied. The operator shall be able to display normal  $(5 \times 7)$ , compressed  $(4 \times 7)$ , expanded  $(6 \times 7)$  or double stroke  $(7 \times 7)$  character fonts. Font access privileges shall be assigned by the system supervisor.

#### LED DC POWER

Power to the LED display shall be provided by industrial-grade switching power supplies manufactured by Lambda (model number LZS1000) or a pre-approved equivalent. The power supplies shall have an efficiency of 75%. The voltage to the LED modules and associated electronics shall not exceed 25 VDC. The power supplies shall be redundant. The power supplies shall be paralleled in a Diode-OR configuration such that one supply may completely fail and the sign will still be supplied with enough power to run 50% of all pixels at 100% duty cycle at 149° F. Functioning supplies must current share to within 10%. The combined effect of line (95 to 135 VAC) and load (10% to 100%) on the power supplies be 80% greater at 120 VAC 50% to 100% of maximum load. The power supplies shall have a power factor of 0.95 or greater at 120 VAC from 50% to 100% of maximum load.

The power supplies shall be continuously monitored for proper operation by the sign controller. If the voltage drops below its nominal operating value, an error message shall be generated and transmitted to the DMS Client software, existing ATMS software, or laptop computer on site at local control box location automatically.

#### PHOTOELECTRIC SENSOR DEVICES

The sign shall incorporate a means of changing the brightness level provided by the LEDs automatically in response to ambient lighting conditions as detected by photo-electric sensors, and remotely in response to commands received from the central computer system. The photo-electric sensors shall be positioned to sense in three (3) directions. A minimum of sixteen (16) settings shall be used to control the brightness level. The lowest settings shall be for night use. The highest settings shall be for over bright control. The middle settings shall be for normal day time use allowing for variable light levels. Photo-electric sensors shall be provided integral to the DMS. These devices shall direct the sign controller unit to modify the intensity of the light produced by the pixel elements. The mounting devices for the photo-electric sensors shall allow full adjustment of the sensor orientation. The photo-electric sensors shall be located such that they are easily accessible for maintenance.

#### **ENVIRONMENTAL BEHAVIOR**

The signs shall be capable of operating without any decrease in performance over an ambient temperature range of -40° F to +149° F with a relative humidity of up to 95%.

#### MAIN POWER SUPPLY AND ENERGY DISTRIBUTION

The sign and its controller shall be designed for use on the following:

Power line Voltage - 120/240 VAC Nominal, single-phase power, 40 amperes per leg - the system shall operate within a voltage range of 95VAC to 135VAC.

Frequency - 60Hz +/- 3Hz

Under normal operation, the drop in voltage between no load and full load of the sign and its controller shall not exceed 10% of the nominal voltage. The system shall be protected by transient suppression devices including, MOVS, RIS and spark gap arrestor.

The system shall report any power failures to the main controller when system power returns.

Power protection shall be provided by a thermal magnetic circuit breaker associated with a 5 mA ground fault circuit interruption (GFI) device. A GFI device shall protect all service outlets.

The sign shall have a 40 A two-pole (common trip) main, 120/240 VAC, single phase, four wire load center with 20 circuit capability. Each circuit in the sign shall be powered from a separate circuit breaker. The power cables shall be as required by the NEC for acceptable voltage drop to supply AC power to the sign. The power required for sign operation shall not exceed 7000 watts for the sign housing to include fans, heaters, sign controller, communication equipment and all pixels illuminated at 100% brightness.

#### SURGE PROTECTION

The system power shall be protected by two (2) stages of transient voltage suppression devices including MOVS and spark gap arrestor. Tripping of each stage (or both if tripped simultaneously) of the surge protection shall cause the sign controller to call central and report the error condition (for dialup operation) or report the error condition to central on the next poll (for multi-drop operation). There shall be an option that is either enabled or disabled and is selected and downloaded from the central controller to the sign controller.

When this option is enabled, tripping of both stages of surge protection shall prevent power from reaching any components of the sign until the surge protection has been replaced. When this option is disabled, the sign will continue to function normally after both stages of surge protection are tripped. Communication lines shall be protected by two (2) stages of transient voltage suppression devices including MOVS and spark gap arrestor. Tripping of each stage (or both if tripped simultaneously) of the surge protection shall cause the sign controller to call central and report the error condition (for dialup operation) or report the error condition to central on the next poll (for multi-drop operation). There shall be an option that is either enabled or disabled and is selected and downloaded from the central controller to the sign controller. When this option is enabled, tripping of both stages of surge protection shall disconnect the communication lines until the surge protection has been replaced. When this option is disabled, the sign will continue to function normally after both stages of surge protection are tripped.

#### UNINTERRUPTIBLE POWER SUPPLY (UPS)

A UPS shall be provided to allow the sign controller to notify the DMS Client software or existing ATMS software (if available) when an improper power condition at the DMS persists for longer than a user selectable "short power loss time".

The UPS shall meet the following minimum specifications:

- 1. Line Transient Protection: Passes ANSI/IEEE C.62.41/C.62.45 Cat A&B
- 2. Safety Compliance: Satisfies US / CSA En50091-1 regulations.
- 3. Capacity: Must be able to operate controller & modem for 10 minutes
- 4. Voltage Nominal: 120VAC
- 5. Voltage Range: 92-135 VAC
- 6. Transfer time: <150 ms typical
- 7. Battery: Sealed, maintenance-free lead acid
- 8. Battery recharge time: 2-8 hours; must be temperature-compensated
- 9. Over current protection:
  - a. UPS automatic shutdown if overload exceeds 110% of nominal for 3 minutes.
  - b. Communications:
  - c. RS-232 Interface (monitor, control and calibrate), DB-9 connection
- 10. Front panel display indicators: Fault, Test, Low Battery, On Battery, On Line
- 11. Operating temperature range: -37°C to +74°C

(NOTE: The UPS shall be mounted and operated in a manner to meet the temperature range requirements of the DMS as outlined in Section 2.5 (-40°C to 74°C (-40°F to 165°F) with a relative humidity of up to 100% condensing).

#### SIGN CONTROLLER UNIT (SCU)

The sign controller shall include a minimum of two 2 serial communications I/O ports; one (1) RS-232, one (1) RS-485; one (1) Ethernet port and one (1) fiber optic communications port (or fully tested compatible serial to fiber device).

The sign controller shall be programmed to receive NTCIP-compliant sign control commands from the central controller (DMS client software or existing ATMS) or laptop computer, transmit NTCIP-compliant responses as requested to the central controller (DMS client software or existing ATMS) or laptop computer, monitor sign and message status and control sign operation and message displays.

The controller will have power-up and auto-restart capabilities with a programmable default message (including a blank message) when recovering from a power off condition. A hardware watch dog circuit will be utilized to provide automatic reset to the controller and the modem. The DMS client software and existing ATMS software (if applicable) shall be capable of remotely commanding a controller and modem reset.

The sign controller shall be capable of being controlled from the Departments existing DMS control software, Skyline NTCIP Version 1.15, existing ATMS developed by the Delcan Corporation or the laptop computer. The DMS and sign controller functionality must be in compliance with all mandatory NTCIP objects for DMS. All integration necessary with the Delcan Corporation software for complete NTCIP compliance and functionality as described within this document shall be included in the cost of this contract. Bidders may contact Mr. Joseph Brahm at 847-925-0120 for any questions.

#### GENERAL

The sign controller shall be programmed to receive sign control commands from the master controller, transmit responses as requested to the master controller and control sign operation and message displays.

The sign controller shall be able to receive and send messages and data via IEEE 802.3 (Ethernet), fiber optic modem, and cellular CDPD, CDMA or GSM/GPRS. Transmission speed shall be a minimum of 9.6 kbps. A test pattern shall be provided in the DMS controller.

The sign controller shall be designed for fail-safe prevention of improper information display in the case of a system malfunction. Failure of any sign shall not affect operation of any other sign in the system. The sign controller shall consist, but not be limited to, the following:

Local control panel status indicators, including:

- 1. power on/off
- 2. communication status with the electronics in the walk-in housing
- 3. sign display power supply status
- 4. controller address
- 5. Power supply module
- 6. Central processor module
- 7. Input/output circuits

The sign controller shall have power-up and auto-restart capabilities with automatic sign blanking when recovering from a power-off condition. A watch-dog circuit shall be utilized to provide automatic shut down of the sign in the event of power or sign controller failure.

Connections from the controller shall be accomplished via industry standard, keyed type connectors with a retaining mechanism.

#### DISPLAY SYSTEM HARDWARE

The sign controller shall communicate with the display modules via the system interface circuit consisting of data bus drivers and line address decoders. Communication and control lines between the sign controller and the system interface circuits shall be surge protected.

The following shall be mounted inside the ground mounted cabinet housing:

- 1. Sign controller
- 2. Fiber optic modem/Ethernet to fiber modem
- 3. IEEE 802.11b wireless access point for remote communication to sign controller from ground elevation
- 4. Display system interface circuits
- 5. Display modules
- 6. Power supplies
- 7. Local/remote control switch and LED indicator
- 8. RS-232 (or Ethernet) plug-in connection for the laptop computer
- 9. S-232 cable (or CAT 5 Ethernet cable) a minimum of 4' long to connect the laptop computer to the sign controller
- 10. Uninterruptible power supply
- 11. Work space for the laptop computer
- 12. Communication equipment and transient voltage surge suppressors (TVSS)
- 13. Type I duty rating 2 step ladder. Ladder shall be mounted so that it does not interfere with the workspace available in the housing and be easily removed for use.

#### SIGN CONTROLLER COMMUNICATION INTERFACE

The sign controller shall be able to communicate with the DMS Client software, existing ATMS software, or laptop computer on site at local control box location using event-driven operation. Upon any status changes initiated either remotely or locally to the DMS controller, controller shall automatically update the DMS Client software and existing ATMS software. It shall be possible for a maintenance technician to connect a laptop computer to the remote control port, either from ground level outside the sign at the local control box, or from within the sign's walk-in housing, and carry out all operations that could be carried out by the central computer. Connection of a laptop without disconnecting the sign controller shall be accomplished with additional control ports. The sign and sign controller shall also be capable of remote communication access via IEEE 802.11b from existing Department laptops for remote control, programming and diagnostics. The sign manufacturer shall test and ensure compatibility with the existing IEEE 802.11b communications cards installed in two Department laptops. The sign manufacturer shall set up and configure appropriate security measures for all IEEE 802.11b hardware provided to ensure a secure network.

The DMS Manufacturer shall provide all required modems. The DMS equipment shall be able to support connection to Department's nearest single-mode fiber optic communications backbone controller cabinet location for remote control, programming and diagnostics by way of Ethernet over fiber optic cable.

For Ethernet operations, each controller shall be assigned a unique controller ID, a 4 bit IP Network Address determined by working with the Department to ensure the address is consistent with the established IP system. The IP address shall also be used to ensure that SNMP Trap messages are able to identify the originating sign.

## SIGN CONTROLLER FUNCTIONS

The sign controller shall be controlled from the DMS client software, existing ATMS software or the laptop computer, which shall specify the appropriate display. The sign controller and its software shall perform the following functions:

- 1. Display a message, including:
- 2. Static messages
- 3. Flashing messages
- 4. Alternating messages
- 5. Double brush stroke messages for maximum legibility
- 6. Full-Matrix type displays

It shall be possible to separately vary the flashing and alternating frequency. The flashing frequency shall vary between one-half and five seconds in one tenth second increments. The alternating frequency shall vary between one-half and five seconds in one-tenth second increments.

It shall be possible to flash any character or set of characters in a static or alternating message. In the case of alternating message, the flashing period shall be a submultiple of the alternating on time it is associated with.

## Report errors and failures, including:

Data transmission error
Receipt of invalid data
Communications failure recovery
AC power failure
Power recovery
Pixel status
Fan status
Temperature status
Power Supply status

The sign controller shall issue an SNMP trap under the following conditions:

Power Supply Failure – when the AC power supply at a DMS has failed.

Power Restoration - whenever it detects restoration of AC power at the sign controller.

Temperature Limit – Whenever internal DMS temperature initially exceeds a programmed safety limit. A new trap will not be issued until the temperature once again falls below the safety limit and then exceeds it.

Door Open – Whenever the door of the DMS housing or the door of the controller cabinet is opened.

## Message and status monitoring:

The sign controller shall transmit a return message to the DMS client software and existing ATMS software whenever it receives a valid request for status. The return message shall contain the following:

Address of the sign controller
Actual message that is visibly displayed on the sign on an individual pixel basis
Current sign illumination level
Error and failure reports
Temperature readings
Power supply operational status
Origin of display message transmission (laptop, manual, central, etc)

Beacon status (for possible future enhancement)
Uninterruptible power supply status

The sign controller shall blank any message displayed in the event of power or sign controller failure. Also, in the event of power failure the sign controller shall immediately access the modems and notify the master controller of AC failure.

The sign shall normally display single stroke (5 X 7) characters, compressed (4 X 7), expanded (6 X 7) or double-stroke (7 X 7) character fonts. Each font shall be fully customizable, and modifications to a font may be downloaded to the sign controller from the DMS client software and existing ATMS software or laptop computer at any time without any software or hardware modifications. The sign shall be capable of displaying a different font and character spacing on each line.

The sign controller shall monitor the photo cell circuits in the sign and convert the measured light intensity into the desired pixel brightness. The photo circuit readings shall be correlated with a brightness table in the sign controller. The brightness table shall have a minimum of 255 brightness levels. Automatic adjustment of the LED driving waveform duty cycle shall occur in small enough increments so that brightness of the sign changes smoothly, with no perceivable brightness change between adjacent levels. The brightness levels shall be adjustable from the DMS client software.

The operational status of each pixel in the sign shall be automatically tested once a day and tested when a pixel test is required from the DMS client software and existing ATMS software or laptop computer. A list of defective pixels shall then be transmitted to the DMS client software and existing ATMS software or laptop computer and logged into the log file, listing pixel status, module number, column number and pixel number. This pixel status test shall distinguish the difference between full out and fully stuck on pixels. This test shall not affect the displayed message for more than 0.5 seconds.

When the sign controller is polled and when a message is downloaded from the DMS client software and existing ATMS software or laptop computer, each pixel in the sign shall be read and its current state for the current displayed message, and shall be returned to the DMS client software and existing ATMS software to show either on a laptop computer or the controller itself, the actual message that is visibly displayed on the sign on an individual pixel basis in a WYSIWYG format.

The operational status of the fans shall have the ability to be automatically tested once a day and tested on command from the DMS client software and existing ATMS software or laptop computer. Any failure shall cause an error message to be sent to the DMS client software, existing ATMS software or laptop computer when the sign controller is polled by the DMS client software, existing ATMS software or laptop computer.

Temperature sensors shall be continuously measured and monitored by the sign controller. A temperature greater than a user selectable critical temperature shall cause the sign message to go to blank and an error message shall be sent to the DMS client software and existing ATMS software or laptop computer when the sign controller is polled by the DMS client software, existing ATMS software or laptop computer. This user selectable critical temperature shall be capable of being changed by the DMS client software, existing ATMS software (if available) or laptop computer. The DMS client software and existing ATMS software (if available) and laptop computers shall have the ability to read all temperature measurements from the sign controller.

When the sign reaches an internal temperature of 130° F, it shall cut the LED intensity to half of its normal brightness to keep the sign from reaching the critical temperature and shutting down.

When the display time of a message has expired, the controller shall set the sign to neutral. A sign is considered to be neutral when the sign is blank.

In the event of a communications failure with the DMS client software or existing ATMS software, the sign controller shall set the sign to neutral after a user-defined number of minutes (1 to 60) unless communications have been restored within this period. This function shall apply only when the sign controller is in the Master Control mode.

All LED module power supplies shall be continuously monitored by the sign controller. A low voltage reading shall cause an error message to be sent to the DMS client software, existing ATMS software or laptop computer when the sign controller is polled by the DMS client software, existing ATMS software or laptop computer.

There shall be no perceivable flicker or ghosting of the pixels during sign erasure and writing periods.

Message additions, deletions and changes in the sign controller shall be made from either the DMS client software, existing ATMS software or the laptop computer.

In the event of an AC power loss, all non-volatile memory shall be retained for a minimum of 30 days. AC power failure shall cause the sign controller to notify the DMS client software and existing ATMS software and display an error message on the DMS client software and existing ATMS software CRT. For cellular operation, the sign controller shall immediately access the modem to notify the DMS client software and existing ATMS of the AC power failure.

Failure of any sign shall not affect the operation of any other sign in the system.

The sign controller internal time clock shall ensure that a message is taken down at the correct time, even in the event of communications loss.

The sign controller shall maintain its internal clock during power outages of less than 4 hours and display the proper message when power is restored.

The sign controller shall be able to put a self-updating time, temperature and/or date display on the sign.

# MODES OF OPERATION

The mode of operation shall determine which level of control governs the DMS message selection. These two modes can change be an automatic function of the DMS system and controller. The two modes of operation shall be:

Master- the DMS Master Controller (the DMS client software or existing IDOT ATMS software) determines the appropriate message or test pattern.

Local - the sign controller keypad or laptop computer is used to determine the appropriate message or test pattern.

## SAFETY OF OPERATION

All DMS Equipment shall meet all of the requirements in Section 3.2.4 "Power Interruption" of the National Electrical Manufacturers Association (NEMA) Standard TSI for Traffic Control Systems.

All DMS Equipment shall meet all of the requirements in Section 2.1.6 "Transients, Power Service" of NEMA Standard TS1.

In the event of a communications failure with the DMS client software or existing IDOT ATMS software, the sign controller shall set the sign to neutral after a defined number of minutes, unless communications have been restored within this period (whatever the remaining display time).

The function described above shall apply only when the sign controller is in the Master Controller Mode.

## **DESCRIPTION OF THE VARIOUS COMMANDS**

As a minimum, the following commands shall be available at the sign controller:

- 1. Display command from the DMS client software and existing ATMS (Master Control Mode).
- 2. Display command from the laptop computer (Local Control Mode).
- 3. Sign Status request This command shall provide a report concerning the:
- 4. Sign appearance (lit, blank or neutral)
- 5. Status of pixel, fan, temperature and power supply
- 6. Mode of the displayed message (local/master)
- 7. Status of the photoelectric sensors
- 8. Light output level (minimum of 255 user defined levels)
- 9. Sign number, location, or ID
- 10. Pixel status request This command shall provide a current indication of the status of all the pixels.
- 11. Light output switching command (minimum of 255 user defined levels)
- 12. "Blank sign" command
- 13. Sign off command (set to neutral state)
- 14. Echo command This command shall provide a report concerning the message currently displayed by the controller (pixels on, display parameters, remaining display time, font used, character spacing).
- 15. Any commands/functions detailed elsewhere in this specification.

# SIGN TO SIGN CONTROLLER CABINET INTERCONNECTION

Cables and pull rope between the sign and CONTROLLER CABINET TYPE III, SPECIAL shall be provided for operation of the sign. These cables shall terminate using CHAMP IDC type connectors. Power and signal cables shall be in separate conduits.

## DMS REPLACEMENT PART ALLOWANCE

A total allowance of \$10,000 shall be included in the material cost of replacement parts for the DMS on this contract. The Contractor shall submit a list of recommended replacement parts with associated unit costs and quantity within 90 days after award.

The Contractor shall allow in the contract bid the allocated allowance amount as described above, and said amount shall be included under this Special Provision. The amount stated above is for material only. No other related costs associated with the purchase, delivery, and other related overhead costs shall be included in the above amount. The material and overhead costs associated with this item shall be included in the pay item TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN.

#### TECHNICAL ASSISTANCE

The DMS manufacturer's technical representative shall provide on-site technical assistance in following areas:

- 1. Sign to structure installation
- 2. Controller cabinet installation
- 3. Sign housing to ground control cabinet cable termination
- 4. Initial sign turn on and stand alone test

The initial powering up of the sign(s) shall not be executed without the permission of the DMS manufacturer's technical representative.

Special or proprietary cables shall be provided by the DMS Manufacturer to the installation contractor.

## **TESTING REQUIREMENTS**

The Department has the right to require performance testing of materials and equipment not previously tested and approved. If technical data are not considered adequate for approval, samples may be requested for testing.

The DMS Manufacturer shall provide five (5) copies of all factory acceptance tests, stand-alone, system test and 90 day test procedures and data forms for the Department's approval at least 60 calendar days prior to the day the tests are to begin. The test procedures shall include the sequence in which the tests will be conducted. The test procedures shall have the Department's approval prior to submission of equipment for tests.

The DMS Manufacturer shall perform the factory acceptance tests, stand-alone and system test. The DMS Manufacturer shall furnish data forms containing all of the data taken, as well as quantitative results for all tests. The data forms shall be signed by an authorized representative (company official) of the equipment manufacturer. At least one (1) copy of the data forms shall be sent to the Department within 14 days of the test's conclusion.

The Department reserves the right to have a representative to witness all tests. The results of each test shall be compared with the requirements specified herein. Failure to conform to the requirements of any test shall be counted as a defect, and the equipment shall be subject to rejection by the Department. Rejected equipment may be offered again for a retest, provided that all non-compliances have been corrected and retested by the DMS Manufacturer and evidence thereof submitted to the Department.

Each of the tests on all or one type of equipment must be completed within five (5) working days of each other. Any delays in performing all these tests may result in the DMS Manufacturer paying the additional costs of providing the Department's representatives for the additional testing time.

Final inspection and acceptance of equipment shall be made after installation at the designated location as shown on the installation plans.

The DMS Manufacturer shall be responsible for providing the test fixtures and test instruments for all the tests.

The Stand-Alone and System Tests are separate tests, however, they may be performed by the DMS Manufacturer during the same visit.

Consequences of Test Failures: If any unit fails to pass its test, the unit shall be corrected or another unit substituted in its place and the test successfully repeated.

If a unit has been modified as a result of a test failure, a report shall be prepared and delivered to the Department prior to shipment of the unit. The report shall describe the nature of the failure and the corrective action taken.

If a failure pattern develops, the Department may direct that design and construction modifications be made to all units at no additional cost or extension of the contract period.

# FACTORY ACCEPTANCE TESTS (FAT)

The DMS Manufacturer shall be responsible for conducting demonstration tests on all units at a DMS's Manufacturer's facility. These tests shall be performed on each unit supplied. The Department shall be notified a minimum of 30 calendar days before the start of tests. At a minimum, all equipment shall have passed the following individual tests:

## **EXAMINATION OF PRODUCT**

Each DMS unit shall be examined carefully to verify that the materials, design, construction, markings and quality of work comply with the requirements of these project specifications.

#### CONTINUITY TESTS

The wiring shall be checked to determine conformance with the requirements of the appropriate paragraphs in these project specifications.

#### **OPERATIONAL TEST**

Each DMS unit shall be operated long enough to permit equipment temperature stabilization, and to check and record an adequate number of performance characteristics to ensure compliance with the requirements of these project specifications.

## NTCIP TEST

A NTCIP test shall be performed at the DMS Manufacturer's facility. The Department may elect to perform and/or witness this test. The specifics of this FAT shall be proposed by the DMS Manufacturer to the Department for approval. The Department encourages the DMS Manufacturer to use the testing methods as described herein, but understands your company may not have the license to test the described software.

### STAND-ALONE TESTS

The DMS Manufacturer shall conduct an approved stand-alone test of the equipment installation at the field site. The test shall, as a minimum, exercise all stand-alone (non-network) functional operations of the field equipment with all of the equipment installed as per the contract documents.

Approved data forms shall be completed and turned over to the Department as the basis for review and rejection or acceptance. At least 30 working days notice shall be given prior to all tests to permit the Department to observe each test.

### SYSTEM TESTS

The DMS provided shall be compatible with the Department's existing Advanced Traffic Management System (ATMS) software. The DMS Manufacturer shall provide the latest version of Skyline Products NTCIP DMS Client and Server software. The Department currently uses Skyline Products NTCIP DMS Version 1.15.00. The DMS shall also be compatible with the latest version of Skyline Products NTCIP DMS Client and Server software. All costs associated with compatibility testing and coordination with the Department's existing ATMS vendor, Delcan Corporation and existing DMS vendor's client/server software, Skyline Products, will not be paid for separate and shall be included in the cost of the DMS.

The DMS Manufacturer shall conduct approved DMS system tests on the field equipment with the DMS manufacturer's software and the Department's existing Advanced Traffic Management System software and equipment for comparison. The Department shall be notified a minimum of seven (7) calendar days before the start of tests. The tests shall, as a minimum, exercise all remote control functions and display the return status codes from the controller and all standard mandatory NTCIP functions for a minimum of 72 hours. Approved data forms for both the DMS manufacturer's software and Department's existing ATMS software shall be completed and turned over to the Department as the basis for review and for rejection or acceptance.

#### 72 HOURS AND 90 DAYS TEST

After the installation of the DMS system is completed and the successful completion of the System Test, the DMS system shall be subjected to one continuous 72-hour full operating test prior to a 90 day test period. The test shall consist primarily of exercising all control, monitor and communications functions of the field equipment by the central equipment.

The 90 days test period shall commence on the first day after the successful completion of the approved 72-hour continuous full operating test period.

During the 90 days test period, downtime, due to mechanical, electrical and/or other malfunctions, shall not exceed five (5) working days. The Engineer may extend the 90 days test period by a number of days equal to the downtime in excess of five (5) working days.

The Engineer will furnish the DMS vendor with a letter of approval stating the first day of the 90 days test period.

## NTCIP STANDARDS TESTING

The Department and DMS Manufacturer shall test the DMS system for NTCIP compliance using Intelligent Devices Inc. (IDI) Device Tester. Any differences in the interpretation of the newly developed NTCIP Standards shall be decided by the NTCIP Joint Standards Committee.

The DMS manufacturer shall be responsible for ensuring that the DMS equipment complies with the NTCIP Standards as specified herein. The NTCIP field testing will be completed no later than 30 calendar days after the installation of the DMS.

#### NTCIP REQUIREMENTS

### A. Definitions

The following terms shall apply within the scope of this specification:

DMS – A Dynamic Message Sign, includes the sign display, controller, cabinet, and other associated field equipment.

FSORS – Full Standardized Object Range Support.

Full Standardized object Range Support – Support for, and proper implementation of all valid values of an object as defined within the object's OBJECT\_TYPE macro in the NTCIP standard; this is defined in two distinct sub-requirements. (1) If ACCESS of the object is read-write, a Management System shall be able to set the object to any valid value as defined by SYNTAX and DESCRIPTION fields (except that the value of 'other' need not be supported when such a value is defined) and the indicated functionality shall be provided. (2) The value indicated by the object (e.g. in response to a get), regardless of the access shall reflect the current conditions per the rules specified in the object's

## DESCRIPTION.

Management System – A computer system used to control an NTCIP component. This includes any laptop software used for field control as well as the central software.

NTCIP Component – A DMS or management system.

NTCIP System – A management plus the various ASCs and DMSs controlled by the management system.

Response Time – The time to prepare and begin transmission of a complete response containing the requested application layer information. This is measured as the time from receipt of the closing flag of the request to the transmission of the opening flag of the response when the device has immediate access to transmit.

### B. References.

Each DMS component shall support the most recent version of these standards, including all Recommended or Approved Amendments, currently in effect. The most recent versions of these standards and known Amendments are shown below. In many cases, the standards are more widely known by its original NEMA assigned number; in these cases the NEMA number is also identified. The content of the NEMA standard is identical to the NTCIP standard. It is the ultimate responsibility of the Manufacturer to monitor NTCIP actives to discover any recent documents.

## **NTCIP Standards**

NTCIP 1101-NTCIP 1101:1997 (NEMA TS 3.2-1996) Simple Transportation Management Framework Amendment #1 Dated November 2, 1998

NTCIP 1201-NTCIP 1201:1997 (NEMA TS 3.4-1996) Global Object Definitions Amendment #1 Dated November 2, 1998

NTCIP 1203-NTCIP 1203:1997 (NEMA TS 3.6-1997) Object Definitions for Dynamic Message Signs

NTCIP 2001-NTCIP 2001: 2000 (NEMA TS-3.3) Class B Profile Amendment #1 Dated Unknown

NTCIP 2101-NTCIP 2101: 2000 (NEMA TS 3.PMP232-2000) Subnet Profile for PMPP over RS-232

NTCIP 2102-NTCIP 2102V01.03: (Draft)
Point-to Point Protocol using RS 232 Subnet work Profile
NTCIP 2104 NTCIP 2104 v01.10
National Transportation Communications for ITS Protocol Ethernet Subnet work Profile

NTCIP 2201-NTCIP 2201 Transportation Profile

NTCIP 2301-NTCIP 2301: 2000 (NEMA TS 3.STMF) Application Profile

C. General Requirements

### 1. Subnet Level

Each serial port on each NTCIP Component shall support NTCIP 2102 over a dial-up connection with a external modem with data rates of 28.8 kbps, 19.2 kbps, 14.4 kbps, 9600 bps, 2400bps, 1200 bps, 600 bps and 300bps. The NTCIP Component shall be capable to make outgoing and receive incoming calls as necessary and support the following modem command sets:

- Hayes AT Command Set
- MNP5
- MNP10
- V.42bis

Each serial port on each NTCIP Component shall support NTCIP 2102 over a null-modem connection with data rates of 19.2 kbps, 14.4 kbps, 9600 bps, 4800 bps, 2400 bps, 1200 bps, 600 bps and 300 bps.

Each serial port on each NTCIP Component shall support NTCIP 2101 with data rates of 9600 bps, 4800 bps, 2400 bps, 1200 bps, 600 bps and 300 bps.

NTCIP Components may support additional Subnet Profiles at the Manufacturer's option. At any one time, only one Subnet Profile shall be active on a given serial port of the NTCIP Component.

The NTCIP Component shall be configurable to allow the field technician to activate the desired Subnet Profile and shall provide a visual indication of the currently selected Subnet Profile.

## 2. Transport Level

Each NTCIP Component shall comply with NTCIP 2201 The transport layer shall be a NULL layer. NTCIP Components may support additional Transportation Profiles at the Manufacturer's option. Response datagram's shall use the same Transport Profile used in the request. Each NTCIP Component shall support receipt of datagram's conforming to any of the identified Transport Profiles at any time.

## 3. Application Level

Each NTCIP Component shall comply with NTCIP 1101 and shall meet the requirements for conformance Level 1.

Each NTCIP Component shall support STMP traps.

An NTCIP Component may support additional Application Profiles at the Manufacturer's option. Responses shall use the sand Application Profile used by the request. Each NTCIP Component shall support the receipt of the Application data packets at any time allowed by the subject standards.

## 4. Information Level

Each NTCIP Component shall provide full Standardized Object Range Support of all objects required by this specification unless otherwise indicated below. The maximum response time for any object shall be 200 milliseconds.

The DMS shall support all mandatory objects of all Conformance Groups as defined in NTCIP 1201 and NTCIP 1203. The section below, Modified Object Ranges for Mandatory Objects, indicated the modified object requirements of these mandatory objects.

Modified Object Ranges for Mandatory Objects

Object: Module Table Entry

Reference: NTCIP 1201 Clause 2.2.3

Requirement: Shall contain at least one row with module Type equal to 3 (software). The module make shall specify the name of the Manufacturer, the module model shall specify the Manufacturer" name of the component and the model version shall indicate the model version number of the component

Object: Max Group Address

Reference: NTCIP 1201 Clause 2.7.1 Requirement: Shall be at least 1

Object: Community Name Address Reference: NTCIP 1201 Clause 2.8.2 Requirement: Shall be at least 3

Object: dms Num Permanent Msg

Reference: NTCIP 1203 Clause 2.6.1.1.1.1

Requirement: Shall be at least 1\*

Object: dms changeable Msg

Reference: NTCIP 1203 Clause 2.6.1.1.1.3

Requirement: Shall be at least 21

Object: dms Free Changeable Memory Reference: NTCIP 1203 Clause 2.6.1.1.1.4

Requirement: Shall be at least 20 when no message is stored

Object: dms Message Multi String

Reference: NTCIP 1203 Clause 2.6.1.1.1.8.3

Requirement: The DMS shall support any valid MULTI string containing any subset of those MULTI tags listed in the Required Multi Tags

section.

Object: dms Control Mode

Reference: NTCIP 1203 Clause 2.7.1.1.1.1

Requirement: The DMS shall support any valid MULTI string containing any subset of those MULTI tags listed in the Required Multi Tags

section.

\* The Permanent Messages shall display the content shown below in Content of Permanent Messages.

## Content of Permanent Messages

1 - Permanent Message #1 shall blank the display (ie. consist of an empty MULTI string). It shall have a run-time priority of one (1),

Required Multi Tags

Code: f1, Feature: field 1 – time (12hr) Code: f2, Feature: field 2 – time (24hr) Code: f8, Feature: field 8 - day of month Code: f9, Feature: field 9 - month

Code: f10, Feature: field 10 – 2 digit year Code: f11, Feature: field 11 – 4 digit year

Code: fl (and/fl), Feature: flashing text on a line by line basis with flash rates controllable in 0.1

second increments Code: fo, Feature: font

Code: jl2, Feature: justification – line- left Code: jl3, Feature: justification – line-center Code: jl4, Feature: justification – line-right Code: jl5, Feature: justification – line-full Code: jp2, Feature: justification – page - top Code: jp3, Feature: justification – page -middle Code: jp4, Feature: justification – page -bottom

Code: mv, Feature: moving text Code: nl, Feature: new line

Code: np, Feature: new page, up to 2 instances in a message (ie., up to 3 pages/frames in a

message counting first page)

Code: pt, Feature: page times controllable in 0.1 second increments

The NTCIP Component shall also implement all mandatory objects of the following optional conformance groups.

- (a) Time Management, as defined in NTCIP 1201
- (b) Time base Event Schedule, as defined in NTCIP 1201.

The following list indicates the modified object requirements of the conformance group.

Modified Object Ranges for the Time base Event Schedule Conformance Group

Object: max time base schedule entries Reference: NTCIP 1201 clause 2.4.3.1 Project Requirements: Shall be at least 28

Object: max day plans

Reference: NTCIP 1201 clause 2.4.4.1 Project Requirements: Shall be at least 20

Object: max day plan events

Reference: NTCIP 1201 clause 2.4.4.2 Project Requirements: Shall be at least 10

- (c) Report, as defined in NTCIP 1201.
- (d) PMPP
- (e) The following list indicates the modified object requirements for this conformance group.

Modified Object Ranges for the Report Conformance Group

Object: max event log configs

Reference: NTCIP 1201 Clause 2.5.1 Project Requirement: Shall be at least 50

Object: Event configuration Mode Reference: NTCIP 1201 Clause 2.4.3.1

Requirement: The NTCIP Component shall support the following event configuration: on change greater than value smaller than value.

Object: Max event log size

Reference: NTCIP 1201 Clause 2.5.3 Requirement: Shall be at least 200

Object: Max event classes

Reference: NTCIP 1201 Clause 2.5.5 Requirement: Shall be at least 7

(f) Font Configuration, as defined in the NTCIP 1203.

The following list indicated the modified object requirements for this conformance group.

Modified Object Ranges for the Font Configuration Conformance Group

Object: num Fonts

Reference: NTCIP 1203 Clause 2.4.1.1.1.1

Requirement: Shall be at least 8

Object: max Font Characters

Reference: NTCIP 1203 Clause 2.4.1.1.1.3

Requirement: Shall be at least 255

Upon delivery, the first three font sets shall be configured in accordance with ASCII character set for the following characters:

- "A" thru "Z" in both upper and lower cases
- "0" thru "9" all decimal digits
- · A blank or space
- Eight (8) directional arrows
- Punctuation marks, such as . , ! ? '"
- Other characters, such as # & \* / () [] < >
- (g) DMS configuration, as defined in NTCIP 1203
- (h) Multi Configuration, as defined in the NTCIP 1203.

The following list indicates the modified object requirements for this conformance group.

Modified Object Ranges for the MULTI Configuration Conformance Group

Object: default Background color

Reference: NTCIP 1203 Clause 2.5.1.1.1.1

Requirement: The DMS shall support the following background colors: black

Object: default foreground color

Reference: NTCIP 1203 Clause 2.5.1.1.1.2

Requirement: The DMS shall support the following foreground colors: Amber

Object: Default flash on

Reference: NTCIP 1203 Clause 2.5.1.1.1.3

Requirement: The DMS shall support the full range of these objects.

Object: Default flash off

Reference: NTCIP 1203 Clause 2.5.1.1.1.4

Requirement: The DMS shall support the full range of these objects.

Object: default justification line

Reference: NTCIP 1203 Clause 2.5.1.1.1.6

Requirement: The DMS shall support the following forms of line justification:

leftcenterright

Object: default justification page

Reference: NTCIP 1203 Clause 2.5.1.1.1.7

Requirement: The DMS shall support the following forms of page justification:

topmiddlebottom

Object: default page on time

Reference: NTCIP 1203 Clause 2.5.1.1.1.8

Requirement: The DMS shall support the full range of these objects with step

sizes no larger than 0.5 seconds

Object: default page off time

Reference: NTCIP 1203 Clause 2.5.1.1.1.9

Requirement: The DMS shall support the full range of these objects with step

sizes no larger than 0.5 seconds

Object: default character set

Reference: NTCIP 1203 Clause 2.5.1.1.1.10

Requirement: The DMS shall support the following character sets: eight bit

- (i) Multi Error Configuration, as defined in NTCIP 1203
- (j) Illumination/Brightness Control, as defined in NTCIP 1203.

The following list indicates the modified object requirements for the conformance group.

Modified Object Ranges for Illumination/Brightness Control Conformance Group

Object: dms illum control

Reference: NTCIP 1203 Clause 2.8.1.1.1.1

Requirement: The DMS shall support the following illumination control modes:

photocell timer manual

Object: Dms illum num bright levels

Reference: NTCIP 1203 Clause 2.8.1.1.1.4

Requirement: Shall be at least 16

(k) Scheduling as defined in the NTCIP 1203. The following text indicates the modified object requirements for this conformance group.

Modified Object Ranges for Scheduling Conformance Group

Object: num action table entries

Reference: NTCIP 1203 Clause 2.9.1.1.1.1

Requirement: Shall be at least 200

- (I) Sign Status, as defined in NTCIP 1203
- (m) Status Error, as defined in NTCIP 1203
- (n) Pixel Error Status, as defined in NTCIP 1203
- (o) Power Status, as defined in the NTCIP 1203

The NTCIP Component shall also implement the following optional objects:

Object: global set ID parameter Reference: NTCIP 1201 Clause 2.2.1

Requirement: FSORS

Object: event config log OID

Reference: NTCIP 1201 Clause 2.5.4.7

Requirement: FSORS

Object: event config action

Reference: NTCIP 1201 Clause 2.5.4.8

Requirement: FSORS

Object: event class description

Reference: NTCIP 1201 Clause 2.5.6.4

Requirement: FSORS

Object: default flash on

Reference: NTCIP 1203 Clause 2.5.1.1.1.3

Requirement: The DMS shall support the full range of these objects with step

size no larger than 0.5 seconds

Object: default flash off

Reference: NTCIP 1203 Clause 2.5.1.1.1.4

Requirement: The DMS shall support the full range of these objects with step

size no larger than 0.5 seconds.

Object: dms SW reset

Reference: NTCIP 1203 Clause 2.7.1.1.1.2

Requirement: FSORS

Object: dms message time remaining Reference: NTCIP 1203 Clause 2.7.1.1.1.4

Requirement: FSORS

Object: dms short power recovery message Reference: NTCIP 1203 Clause 2.7.1.1.1.8

Requirement: FSORS

Object: dms long power recovery message Reference: NTCIP 1203 Clause 2.7.1.1.1.9

Requirement: FSORS

Object: dms short power loss time

Reference: NTCIP 1203 Clause 2.7.1.1.1.10

Requirement: FSORS

Object: dms reset message

Reference: NTCIP 1203 Clause 2.7.1.1.1.11

Requirement: FSORS

Object: dms communication loss message Reference: NTCIP 1203 Clause 2.7.1.1.1.12

Requirement: FSORS

Object: dms time comm. loss

Reference: NTCIP 1203 Clause 2.7.1.1.1.13

Requirement: FSORS

Object: dms end duration message

Reference: NTCIP 1203 Clause 2.7.1.1.1.15

Requirement: FSORS

Object: dms memory mgmt

Reference: NTCIP 1203 Clause 2.7.1.1.1.16

Requirement: The DMS shall support the following Memory Management Modes:

clear changeable messages clear volatile messages

Object: dms multi other error description Reference: NTCIP 1203 Clause 2.7.1.1.1.20

Requirement: If the vendor implements any vendor-specific MULTI tags, the DMS shall provide meaningful error messages with in the object whenever one of these tags generates an error.

Object: dms illume light output status Reference: NTCIP 1203 Clause 2.8.1.1.1.9

Requirement: FSORS

Object: watchdog failure count

Reference: NTCIP 1203 Clause 2.11.1.1.5

Requirement: FSORS

Object: dms stat door open

Reference: NTCIP 1203 Clause 2.11.1.1.6

Requirement: FSORS

Object: fan failure

Reference: NTCIP 1203 Clause 2.11.1.1.1.8

Requirement: FSORS

Object: fan test activation

Reference: NTCIP 1203 Clause 2.11.1.1.1.9

Requirement: FSORS

Object: temp min ctrl cabinet

Reference: NTCIP 1203 Clause 2.11.4.1.1.1

Requirement: FSORS

Object: temp max ctrl cabinet

Reference: NTCIP 1203 Clause 2.11.4.1.1.2

Requirement: FSORS

Object: temp min sign housing

Reference: NTCIP 1203 Clause 2.11.4.1.1.5

Requirement: FSORS

Object: temp max sign housing

Reference: NTCIP 1203 Clause 2.11.4.1.1.6

Requirement: FSORS

#### MAINTENANCE SERVICES

The installation contractor shall provide complete maintenance services for the entire DMS assembly until the final acceptance. All labor, travel, replacement parts and associated costs necessary to maintain the DMS assembly shall be included in the contract at no additional cost to the Department.

The installation contractor shall correct all failures in the DMS assembly within 48 hours of notification from the Department until final acceptance. A failure of a sign installation shall be defined as the inability of the sign to function as per these specifications. A failure shall also be defined as the sign becoming unreadable or illegible as determined by the Department.

## FINAL SYSTEM ACCEPTANCE

Final system acceptance will be defined as when all work and materials provided have been furnished and completely installed by the DMS Manufacturer, and all parts of the work have been approved and accepted by the Department and the Dynamic Message Sign System has been operated continuously and successfully for 90 calendar days with no more than 5 calendar days downtime due to mechanical, electrical and/or other malfunctions, as specified herein.

The warranty period, as specified in herein, will begin upon final acceptance.

## **AS-BUILT DOCUMENTATION**

The DMS Manufacturer shall provide to the Department the following documentation of the complete installed equipment prior to final payment. Sufficient documentation shall be provided to reflect "as-built" conditions and to facilitate operation, maintenance, modification, and expansion of the system or any of its individual components.

Manufacturer supplied documentation which covers the intent of this requirement may be used, subject to the approval of the Department:

The DMS Manufacturer shall prepare and submit the following detailed drawings for each sign:

- the DMS character set as detailed herein,
- all non-catalog or custom-made components,
- sign housing assembly details, including the component location details and a layout of all the display elements, complete with dimensions,
- sign housing structural details, including member details, support mechanism details required for installation of the DMS onto the sign truss, welding details, and miscellaneous hardware details; complete with dimensions and sizes,
- sign mounting bracket structural details, including miscellaneous members and hardware required to attach the DMS to the sign truss; complete with dimensions and sizes, and
- wiring schematics.

### **OPERATOR'S MANUALS**

A manual containing a general description and detailed operating and installation instructions shall be provided for each different type or model of equipment. One (1) copy of the manual shall be provided and kept in the sign cabinet. An additional ten (10) copies of the manual shall be submitted to the Department for each model of equipment. An additional copy of the manual shall be submitted to the Department on CD for each model of equipment. The manual shall include the following information:

- 1. A general description of the equipment including all information necessary to describe the basic use or function of the system components. This shall include a general block diagram presentation of the equipment. Where auxiliary equipment is required, tabular charts shall be included, listing such equipment. These charts shall include the nomenclature physical and electrical characteristics and functions of the auxiliary equipment unless such information is contained elsewhere in an associated manual. In the latter case, a reference shall be made to the location of the information pertaining to the auxiliary equipment.
- 2. The theory of operation of the system components in a clear, concise manner supported by simplified schematics, logic, data flow diagrams, one-function diagrams, etc. Timing and waveform diagrams and voltage levels shall be shown as required. A logical development shall be used starting with a system block level and proceeding to a circuit analysis. Circuit analysis shall be detailed whenever circuits are not normally found in standard textbooks. The application of new theoretical concepts shall be fully described. Where the design allows operation in a number of different modes, an operational description of each mode shall be included.
- 3. In simple, clear language, the routine of operation, from necessary preparations for placing the equipment into operation, to securing the equipment after operation. This section shall contain appropriate illustrations, with the sequence of operations presented in tabular form wherever feasible. This section shall also contain a list of applicable test instruments, aids and tools required in the performance of necessary measurements and technique of each system component. In addition, set-up test, and calibration procedures shall be described.

4. Schematic diagrams shall be complete and accurate as required to supplement the text material and to allow the books to be a self-contained technical information source. Maximum size of these diagrams should be limited to allow their use in close proximity of the equipment, in the classroom, etc., part reference symbols, test voltages, waveforms, and other aids to understanding of the circuit's function shall be included on the diagrams. Test voltages, waveforms, and other aids to understanding of the circuit's function may be shown on both the simplified schematics and other drawings (as required in the above sections) on theory of operation, or maintenance or on the schematic diagrams required for this section. The overall scope of information shall not be less, however, than that stated for the schematic diagrams.

### SOFTWARE MANUALS

The DMS Manufacturer shall provide manuals and data for the computer software system and components thereof. One (1) copy of the manual shall be provided and kept in the sign cabinet. Ten (10) additional copies of the manual shall be submitted to the Department for each version of software. One (1) copy of the manual shall be provided on CD. As software is upgraded, updated versions of the manual shall be provided. This submittal shall include the following:

- 1. Software user's manuals shall be supplied. Include instructions for performing a backup of all software and message libraries.
- 2. Manufacturer's documentation (including schematics) for all plug in circuit cards used in the microcomputer chassis.
- 3. Computer program logic in flowchart form.
- 4. Narrative descriptions of programs and input/output formats.
- 5. Two (2) copies of source programs, for master and sign controller software, shall be provided on CD-ROM. The Department shall have the right to duplicate the sign controller software as needed for use in controlling signs under its' jurisdiction.
- 6. The DMS Manufacturer's NTCIP MIB (Management Information Base) shall be provided to the Department.
- 7. Warranty information.
- 8. Preventive maintenance and maintenance information.

### MAINTENANCE MANUALS

A manual containing a general description and detailed maintenance instructions shall be provided for each different type or model of equipment. One (1) copy of the manual shall be provided and kept in the sign cabinet. An additional ten (10) copies of the manual shall be submitted to the Department for each model of equipment. One (1) copy of the manual shall be provided on CD. The manual shall include the following information:

- 1. The manufacturer's recommended procedures and checks necessary for preventive maintenance. This shall be specified for pre-operation, weekly, monthly, quarterly, semi-annual, annual, and "as required" checks as necessary to assure reliable equipment operation. Specifications, including tolerances, for all electrical, mechanical, and other applicable measurement, adjustments, or both, shall be listed. The DMS Manufacturer shall provide the Department with a sample preventive maintenance schedule.
- Data necessary for isolation and repair of failures or malfunctions, assuming the maintenance technicians to be capable of analytical reasoning using the information provided above. Accuracies, limits, and tolerances for all electrical, physical or other applicable measurements shall be described.

General instructions shall be included for disassembly, overhaul, and reassembly, including shop specifications or performance requirements.

- 3. Detailed instructions shall be given only where failure to follow special procedures would result in damage to the equipment, improper operation, or danger to operating or maintenance personnel.
- 4. The parts list shall contain all information required to describe the characteristics of the individual parts, as required for identification. It shall include a list of all equipment within a group and list of all assemblies, subassemblies, and replacement parts of units. The tabular arrangement shall be in alphanumerical order of the schematic reference symbols and shall give the associated description, manufacturer's name, and part number. A table of contents or some other convenient means, e.g., appropriate grouping, shall be provided for the purpose of identifying major components, assemblies, etc.

## FINAL DOCUMENTATION OF ALL HARDWARE AND SOFTWARE

Final documentation shall reflect all field changes and software modifications and shall be provided before final payment is made.

The DMS Manufacturer shall coordinate and take the lead on this effort with the installation contractor.

This documentation shall include drawings of conduit layouts, cable diagrams, wiring lists, cabinet layouts, wiring diagrams and schematics for all elements of the communications system. This shall also include detailed drawings identifying by cable type, color code and function, the routing of all conductors (pairs) in the communications system.

Four (4) copies of each As-Built installation shall be delivered to the Department. Copies shall go to:

- 1. Resident Construction Engineer
- 2. Maintenance supervisor
- 3. ITS Engineer
- 4. One will be left in the DMS

Drawings left in the DMS shall be attached to the door with stainless steel fasteners and protected from weather with a waterproof enclosure.

## **TRAINING**

Operational and maintenance training for the entire system shall be provided to designated personnel during installation, testing and debugging. This training shall be provided through practical demonstrations, seminars and other related technical procedures. Training shall be limited to a maximum of eight (8) people and shall be provided at a time and location approved by the Department. The training shall include, but not be limited to, the following:

- 1. "Hands-on" operation of all sign control hardware
- 2. Explanation of all system commands, their function and usage
- 3. Insertion of data

- 4. Required preventative maintenance procedures
- 5. Servicing procedures
- 6. System "troubleshooting" or problem identification procedures

A minimum of eight (8) hours of instruction shall be provided for the operational and maintenance procedures for the system.

The DMS Manufacturer shall submit an agenda for the training and one complete set of training material (manual and schematic) along with the qualification of proposed instructors) to the Department for approval at least 30 calendar days before the training is to begin. The Department will review material and approve or request changes.

The DMS Manufacturer shall record the entire training on DVD and shall provide DVD's to the Department for later use.

The training session(s) shall be conducted at a facility provided by the Department, after the completion of all system integration tests. The schedule of the training sessions shall be established by the DMS Manufacturer with the approval of the Department.

## WARRANTY

The equipment and parts furnished for the dynamic message sign system shall be new, of the latest model, fabricated under high quality standards.

Equipment and parts furnished for the dynamic message sign system shall be warranted by the manufacturer to be free from defects in assembly or fabrication and materials for a minimum of two (2) years from the date of final acceptance. If component manufacture's warranties are for a longer period, they shall apply. Any parts or equipment found to be defective and/or determined to be a failure in design, materials and workmanship during the warranty period shall be replaced free of charge.

The Department shall be furnished with a certification stating that the equipment, parts, and material are covered by a warranty. Company contact information and warranty dates should be clearly shown.

All manufacturer's warranties and guarantees for the dynamic message sign system shall be transferred to the Department on the date of final acceptance.

Replacement parts covered in the section shall be shipped within one week of the Department notifying the DMS Manufacturer of a failed part or operational problem.

## **BASIS OF PAYMENT**

The work performed and materials furnished in accordance with this Item and measured will be paid for at the contract unit price each for TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN. This price shall be full compensation for furnishing, placing and testing all materials and equipment, and for all tools, labor, equipment, hardware, operational software package(s), supplies, support, personnel training, shop drawing and documentation necessary to complete the work.

### **WARRANTY**

The Contractor shall warranty all materials and workmanship including labor for a period of two (2) years after the completion and acceptance of the installation of the items included in the following pay items:

CONTROLLER CABINET TYPE III, SPECIAL TRUSS MOUNTED LED DYANAMIC MESSAGE SIGN

unless other warranty requirements prevail.

The Contractor shall obtain from the manufacturers, warranties for all electronic and mechanical equipment. These warranties shall be transferred to the Department or other maintaining agencies upon the completion and acceptance of the project. The manufacturer shall warrant the equipment and all parts thereof against any defects of design, workmanship, and materials, and guarantee to promptly repair or replace, free of charge, any item that has become defective for reasons not proven to have been caused by negligence on the part the user or acts of a third party during the warranty period.

The warranty period shall begin when the Contractor completes all construction obligations related to this item and when the components for this item have been accepted, which shall be documented as the final completion date in the construction status report. This warranty shall include repair and/or replacement of all failed components via a factory authorized depot repair service. All items sent to the depot for repair shall be returned within two weeks of the date of receipt at the facility. The depot location shall be in the United States. Repairs shall not require more than two (2) weeks from date of receipt and the provider of the warranty shall be responsible for all return shipping costs. The depot maintainer designated for each component shall be authorized by the original manufacturer to supply this service.

A warranty certificate shall be supplied for each component from the designated depot repair site indicating the start and end dates of the warranty. The certificate shall be supplied at the conclusion of the system acceptance test and shall be for a minimum of two (2) years after that point. The certificate shall name the Department as the recipient of the service. The Department shall have the right to transfer this service to other private parties who may be contracted to perform overall maintenance of the system.

This is not a pay item and no additional compensation shall be allowed.

# APPROVAL OF PROPOSED BORROW AREAS, USE AREAS, AND/OR WASTE AREAS (BDE)

Effective: November 1, 2008 Revised: November 1, 2010

Replace the first paragraph of Article 107.22 of the Standard Specifications with the following:

"All proposed borrow areas, including commercial borrow areas; use areas, including, but not limited to temporary access roads, detours, runarounds, plant sites, and staging and storage areas; and/or waste areas are to be designated by the Contractor to the Engineer and approved prior to their use. Such areas outside the State of Illinois shall be evaluated, at no additional cost to the Department, according to the requirements of the state in which the area lies; and approval by the authority within that state having jurisdiction for such areas shall be forwarded to the Engineer. Such areas within Illinois shall be evaluated as described herein.

A location map delineating the proposed borrow area, use area, and/or waste area shall be submitted to the Engineer for approval along with an agreement from the property owner granting the Department permission to enter the property and conduct cultural and biological resource reconnaissance surveys of the site for archaeological resources, threatened or endangered species or their designated essential habitat, wetlands, prairies, and savannahs. The type of location map submitted shall be a topographic map, a plat map, or a 7.5 minute quadrangle map. Submittals shall include the intended use of the site and provide sufficient detail for the Engineer to determine the extent of impacts to the site. The Engineer will initiate cultural and biological resource reconnaissance surveys of the site, as necessary, at no cost to the Contractor. The Engineer will advise the Contractor of the expected time required to complete all surveys. If the proposed area is within 150 ft (45 m) of the highway right-of-way, a topographic map of the proposed site will be required as specified in Article 204.02."

# **CONSTRUCTION AIR QUALITY – DIESEL RETROFIT (BDE)**

Effective: June 1, 2010

The reduction of emissions of particulate matter (PM) for off-road equipment shall be accomplished by installing retrofit emission control devices. The term "equipment" refers to diesel fuel powered devices rated at 50 hp and above, to be used on the jobsite in excess of seven calendar days over the course of the construction period on the jobsite (including rental equipment).

Contractor and subcontractor diesel powered off-road equipment assigned to the contract shall be retrofitted using the phased in approach shown below. Equipment that is of a model year older than the year given for that equipment's respective horsepower range shall be retrofitted:

Effective Dates	Horsepower Range	Model Year
June 1, 2010 1/	600-749	2002
	750 and up	2006
June 1, 2011 2/	100-299	2003
	300-599	2001
	600-749	2002
	750 and up	2006
June 1, 2012 2/	50-99	2004
	100-299	2003
	300-599	2001
	600-749	2002
	750 and up	2006

<sup>1/</sup> Effective dates apply to Contractor diesel powered off-road equipment assigned to the contract.

The retrofit emission control devices shall achieve a minimum PM emission reduction of 50 percent and shall be:

<sup>2/</sup> Effective dates apply to Contractor and subcontractor diesel powered off-road equipment assigned to the contract.

- a) Included on the U.S. Environmental Protection Agency (USEPA) Verified Retrofit
   Technology List (<a href="http://www.epa.gov/otaq/retrofit/verif-list.htm">http://www.epa.gov/otaq/retrofit/verif-list.htm</a>), or verified by the
   California Air Resources Board (CARB) (<a href="http://www.arb.ca.gov/diesel/verde/verdev.htm">http://www.arb.ca.gov/diesel/verde/verdev.htm</a>);
   or
- b) Retrofitted with a non-verified diesel retrofit emission control device if verified retrofit emission control devices are not available for equipment proposed to be used on the project, and if the Contractor has obtained a performance certification from the retrofit device manufacturer that the emission control device provides a minimum PM emission reduction of 50 percent.

Note: Large cranes (Crawler mounted cranes) which are responsible for critical lift operations are exempt from installing retrofit emission control devices if such devices adversely affect equipment operation.

Diesel powered off-road equipment with engine ratings of 50 hp and above, which are unable to be retrofitted with verified emission control devices or if performance certifications are not available which will achieve a minimum 50 percent PM reduction, may be granted a waiver by the Department if documentation is provided showing good faith efforts were made by the Contractor to retrofit the equipment.

Construction shall not proceed until the Contractor submits a certified list of the diesel powered off-road equipment that will be used, and as necessary, retrofitted with emission control devices. The list(s) shall include (1) the equipment number, type, make, Contractor/rental company name; and (2) the emission control devices make, model, USEPA or CARB verification number, or performance certification from the retrofit device manufacturer. Equipment reported as fitted with emissions control devices shall be made available to the Engineer for visual inspection of the device installation, prior to being used on the jobsite.

The Contractor shall submit an updated list of retrofitted off-road construction equipment as retrofitted equipment changes or comes on to the jobsite. The addition or deletion of any diesel powered equipment shall be included on the updated list.

If any diesel powered off-road equipment is found to be in non-compliance with any portion of this special provision, the Engineer will issue the Contractor a diesel retrofit deficiency deduction.

Any costs associated with retrofitting any diesel powered off-road equipment with emission control devices shall be considered as included in the contract unit prices bid for the various items of work involved and no additional compensation will be allowed. The Contractor's compliance with this notice and any associated regulations shall not be grounds for a claim.

# **Diesel Retrofit Deficiency Deduction**

When the Engineer determines that a diesel retrofit deficiency exists, a daily monetary deduction will be imposed for each calendar day or fraction thereof the deficiency continues to exist. The calendar day(s) will begin when the time period for correction is exceeded and end with the Engineer's written acceptance of the correction. The daily monetary deduction will be \$1,000.00 for each deficiency identified.

The deficiency will be based on lack of diesel retrofit emissions control.

If a Contractor accumulates three diesel retrofit deficiency deductions for the same piece of equipment in a contract period, the Contractor will be shutdown until the deficiency is corrected. Such a shutdown will not be grounds for any extension of the contract time, waiver of penalties, or be grounds for any claim.

# CONSTRUCTION AIR QUALITY - DIESEL VEHICLE EMISSIONS CONTROL (BDE)

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

<u>Diesel Vehicle Emissions Control</u>. The reduction of construction air emissions shall be accomplished by using cleaner burning diesel fuel. The term "equipment" refers to any and all diesel fuel powered devices rated at 50 hp and above, to be used on the project site in excess of seven calendar days over the course of the construction period on the project site (including any "rental" equipment).

All equipment on the jobsite, with engine ratings of 50 hp and above, shall be required to: use Ultra Low Sulfur Diesel fuel (ULSD) exclusively (15 ppm sulfur content or less).

Diesel powered equipment in non-compliance will not be allowed to be used on the project site, and is also subject to a notice of non-compliance as outlined below.

The Contractor shall submit copies of monthly summary reports and include certified copies of the ULSD diesel fuel delivery slips for diesel fuel delivered to the jobsite for the reporting time period, noting the quantity of diesel fuel used.

If any diesel powered equipment is found to be in non-compliance with any portion of this specification, the Engineer will issue the Contractor a notice of non-compliance and identify an appropriate period of time, as outlined below under environmental deficiency deduction, in which to bring the equipment into compliance or remove it from the project site.

Any costs associated with bringing any diesel powered equipment into compliance with these diesel vehicle emissions controls shall be considered as included in the contract unit prices bid for the various items of work involved and no additional compensation will be allowed. The Contractor's compliance with this notice and any associated regulations shall also not be grounds for a claim.

<u>Environmental Deficiency Deduction</u>. When the Engineer is notified, or determines that an environmental control deficiency exists, he/she will notify the Contractor in writing, and direct the Contractor to correct the deficiency within a specified time period. The specified time-period, which begins upon Contractor notification, will be from 1/2 hour to 24 hours long, based on the urgency of the situation and the nature of the deficiency. The Engineer shall be the sole judge regarding the time period.

The deficiency will be based on lack of repair, maintenance and diesel vehicle emissions control.

If the Contractor fails to correct the deficiency within the specified time frame, a daily monetary deduction will be imposed for each calendar day or fraction thereof the deficiency continues to exist. The calendar day(s) will begin when the time period for correction is exceeded and end with the Engineer's written acceptance of the correction. The daily monetary deduction will be \$1,000.00 for each deficiency identified.

If a Contractor or subcontractor accumulates three environmental deficiency deductions in a contract period, the Contractor will be shutdown until the deficiency is corrected. Such a shutdown will not be grounds for any extension of contract time, waiver of penalties, or be grounds for any claim.

# **CONSTRUCTION AIR QUALITY - IDLING RESTRICTIONS (BDE)**

Effective: April 1, 2009

Idling Restrictions. The Contractor shall establish truck-staging areas for all diesel powered vehicles that are waiting to load or unload material at the jobsite. Staging areas shall be located where the diesel emissions from the equipment will have a minimum impact on adjacent sensitive receptors. The Department will review the selection of staging areas, whether within or outside the existing highway right-of-way, to avoid locations near sensitive areas or populations to the extent possible. Sensitive receptors include, but are not limited to, hospitals, schools, residences, motels, hotels, daycare facilities, elderly housing and convalescent facilities. Diesel powered engines shall also be located as far away as possible from fresh air intakes, air conditioners, and windows. The Engineer will approve staging areas before implementation.

Diesel powered vehicle operators may not cause or allow the motor vehicle, when it is not in motion, to idle for more than a total of 10 minutes within any 60 minute period, except under any of the following circumstances:

- 1) The motor vehicle has a gross vehicle weight rating of less than 8000 lb (3630 kg).
- 2) The motor vehicle idles while forced to remain motionless because of on-highway traffic, an official traffic control device or signal, or at the direction of a law enforcement official.
- 3) The motor vehicle idles when operating defrosters, heaters, air conditioners, or other equipment solely to prevent a safety or health emergency.
- 4) A police, fire, ambulance, public safety, other emergency or law enforcement motor vehicle, or any motor vehicle used in an emergency capacity, idles while in an emergency or training mode and not for the convenience of the vehicle operator.
- 5) The primary propulsion engine idles for maintenance, servicing, repairing, or diagnostic purposes if idling is necessary for such activity.
- 6) A motor vehicle idles as part of a government inspection to verify that all equipment is in good working order, provided idling is required as part of the inspection.
- 7) When idling of the motor vehicle is required to operate auxiliary equipment to accomplish the intended use of the vehicle (such as loading, unloading, mixing, or processing cargo; controlling cargo temperature; construction operations, lumbering operations; oil or gas well servicing; or farming operations), provided that this exemption does not apply when the vehicle is idling solely for cabin comfort or to operate non-essential equipment such as air conditioning, heating, microwave ovens, or televisions.
- 8) When the motor vehicle idles due to mechanical difficulties over which the operator has no control.
- 9) The outdoor temperature is less than 32 °F (0 °C) or greater than 80 °F (26 °C).

When the outdoor temperature is greater than or equal to 32 °F (0 °C) or less than or equal to 80 °F (26 °C), a person who operates a motor vehicle operating on diesel fuel shall not cause or allow the motor vehicle to idle for a period greater than 30 minutes in any 60 minute period while waiting to weigh, load, or unload cargo or freight, unless the vehicle is in a line of vehicles that regularly and periodically moves forward.

The above requirements do not prohibit the operation of an auxiliary power unit or generator set as an alternative to idling the main engine of a motor vehicle operating on diesel fuel.

<u>Environmental Deficiency Deduction</u>. When the Engineer is notified, or determines that an environmental control deficiency exists based on non-compliance with the idling restrictions, he/she will notify the Contractor, and direct the Contractor to correct the deficiency.

If the Contractor fails to correct the deficiency a monetary deduction will be imposed. The monetary deduction will be \$1,000.00 for each deficiency identified.

## **DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION (BDE)**

Effective: September 1, 2000 Revised: January 1, 2011

<u>FEDERAL OBLIGATION</u>. The Department of Transportation, as a recipient of federal financial assistance, is required to take all necessary and reasonable steps to ensure nondiscrimination in the award and administration of contracts. Consequently, the federal regulatory provisions of 49 CFR part 26 apply to this contract concerning the utilization of disadvantaged business enterprises. For the purposes of this Special Provision, a disadvantaged business enterprise (DBE) means a business certified by the Department in accordance with the requirements of 49 CFR part 26 and listed in the Illinois Unified Certification Program (IL UCP) DBE Directory.

STATE OBLIGATION. This Special Provision will also be used by the Department to satisfy the requirements of the Business Enterprise for Minorities, Females, and Persons with Disabilities Act, 30 ILCS 575. When this Special Provision is used to satisfy state law requirements on 100 percent state-funded contracts, the federal government has no involvement in such contracts (not a federal-aid contract) and no responsibility to oversee the implementation of this Special Provision by the Department on those contracts. DBE participation on 100 percent state-funded contracts will not be credited toward fulfilling the Department's annual overall DBE goal required by the US Department of Transportation to comply with the federal DBE program requirements.

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

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

OVERALL GOAL SET FOR THE DEPARTMENT. As a requirement of compliance with 49 CFR part 26, the Department has set an overall goal for DBE participation in its federally assisted contracts. That goal applies to all federal-aid funds the Department will expend in its federally assisted contracts for the subject reporting fiscal year. The Department is required to make a good faith effort to achieve the overall goal. The dollar amount paid to all approved DBE companies performing work called for in this contract is eligible to be credited toward fulfillment of the Department's overall goal.

CONTRACT GOAL TO BE ACHIEVED BY THE CONTRACTOR. This contract includes a specific DBE utilization goal established by the Department. The goal has been included because the Department has determined that the work of this contract has subcontracting opportunities that may be suitable for performance by DBE companies. This determination is based on an assessment of the type of work, the location of the work, and the availability of DBE companies to do a part of the work. The assessment indicates that, in the absence of unlawful discrimination, and in an arena of fair and open competition, DBE companies can be expected to perform **0.00%** 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 only award this contract to a bidder who makes a good faith effort to meet this goal of DBE participation in the performance of the work. A bidder makes a good faith effort for award consideration if either of the following is done in accordance with the procedures set forth in this Special Provision:

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

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

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

- (a) The bidder shall submit a Disadvantaged Business Utilization Plan on Department forms SBE 2025 and 2026 with the bid.
- (b) The Utilization Plan shall indicate that the bidder either has obtained sufficient DBE participation commitments to meet the contract goal or has not obtained enough DBE participation commitments in spite of a good faith effort to meet the goal. The Utilization Plan shall further provide the name, telephone number, and telefax number of a responsible official of the bidder designated for purposes of notification of plan approval or disapproval under the procedures of this Special Provision.
- (c) The Utilization Plan shall include a DBE Participation Commitment Statement, Department form SBE 2025, for each DBE proposed for the performance of work to achieve the contract goal. For bidding purposes, submission of the completed SBE 2025 forms, signed by the DBEs and faxed to the bidder will be acceptable as long as the original is available and provided upon request. All elements of information indicated on the said form shall be provided, including but not limited to the following:
  - (1) The names and addresses of DBE firms that will participate in the contract;
  - (2) A description, including pay item numbers, of the work each DBE will perform;

- (3) The dollar amount of the participation of each DBE firm participating. The dollar amount of participation for identified work shall specifically state the quantity, unit price, and total subcontract price for the work to be completed by the DBE. If partial pay items are to be performed by the DBE, indicate the portion of each item, a unit price where appropriate and the subcontract price amount;
- (4) DBE Participation Commitment Statements, form SBE 2025, signed by the bidder and each participating DBE firm documenting the commitment to use the DBE subcontractors whose participation is submitted to meet the contract goal;
- (5) If the bidder is a joint venture comprised of DBE companies and non-DBE companies, the plan must also include a clear identification of the portion of the work to be performed by the DBE partner(s); and,
- (6) If the contract goal is not met, evidence of good faith efforts.

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

- (a) The following is a list of types of action that the Department will consider as part of the evaluation of the bidder's good faith efforts to obtain participation. These listed factors are not intended to be a mandatory checklist and are not intended to be exhaustive. Other factors or efforts brought to the attention of the Department may be relevant in appropriate cases, and will be considered by the Department.
  - (1) Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBE companies that have the capability to perform the work of the contract. The bidder must solicit this interest within sufficient time to allow the DBE companies to respond to the solicitation. The bidder must determine with certainty if the DBE companies are interested by taking appropriate steps to follow up initial solicitations.
  - (2) Selecting portions of the work to be performed by DBE companies in order to increase the likelihood that the DBE goals will be achieved.

This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the prime Contractor might otherwise prefer to perform these work items with its own forces.

- (3) Providing interested DBE companies with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.
- (4) a. Negotiating in good faith with interested DBE companies. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBE companies that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBE companies to perform the work.
  - b. A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBE companies is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also, the ability or desire of a bidder to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Bidders are not, however, required to accept higher quotes from DBE companies if the price difference is excessive or unreasonable.
- (5) Not rejecting DBE companies as being unqualified without sound reasons based on a thorough investigation of their capabilities. The bidder's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the bidder's efforts to meet the project goal.
- (6) Making efforts to assist interested DBE companies in obtaining bonding, lines of credit, or insurance as required by the recipient or Contractor.
- (7) Making efforts to assist interested DBE companies in obtaining necessary equipment, supplies, materials, or related assistance or services.
- (8) Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, state, and federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBE companies.
- (b) If the Department determines that the apparent successful bidder has made a good faith effort to secure the work commitment of DBE companies to meet the contract goal, the Department will award the contract provided that it is otherwise eligible for award.

If the Department determines that the bidder has failed to meet the requirements of this Special Provision or that a good faith effort has not been made, the Department will notify the responsible company official designated in the Utilization Plan that the bid is not responsive. The notification shall include a statement of reasons for the determination.

(c) The bidder may request administrative reconsideration of a determination adverse to the bidder within the five working days after receipt of the notification date of the determination by delivering the request to the Department of Transportation, Bureau of Small Business Enterprises, Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764 (Telefax: (217)785-1524). Deposit of the request in the United States mail on or before the fifth business day shall not be deemed delivery. The determination shall become final if a request is not made and delivered. A request may provide additional written documentation and/or argument concerning the issues raised in the determination statement of reasons, provided the documentation and arguments address efforts made prior to submitting the bid. The request will be forwarded to the Department's Reconsideration Officer. The Reconsideration Officer will extend an opportunity to the bidder to meet in person in order to consider all issues of documentation and whether the bidder made a good faith effort to meet the goal. After the review by the Reconsideration Officer, the bidder will be sent a written decision within ten working days after receipt of the request for reconsideration, explaining the basis for finding that the bidder did or did not meet the goal or make adequate good faith efforts to do so. A final decision by the Reconsideration Officer that a good faith effort was made shall approve the Utilization Plan submitted by the bidder and shall clear the contract for award. A final decision that a good faith effort was not made shall render the bid not responsive.

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

- (a) DBE as the Contractor: 100 percent goal credit for that portion of the work performed by the DBE's own forces, including the cost of materials and supplies. Work that a DBE subcontracts to a non-DBE does not count toward the DBE goals.
- (b) DBE as a joint venture Contractor: 100 percent goal credit for that portion of the total dollar value of the contract equal to the distinct, clearly defined portion of the work performed by the DBE's own forces.
- (c) DBE as a subcontractor: 100 percent goal credit for the work of the subcontract performed by the DBE's own forces, including the cost of materials and supplies, excluding the purchase of materials and supplies or the lease of equipment by the DBE subcontractor from the prime Contractor or its affiliates. Work that a DBE subcontractor in turn subcontracts to a non-DBE does not count toward the DBE goal.

- (d) DBE as a trucker: 100 percent goal credit for trucking participation provided the DBE is responsible for the management and supervision of the entire trucking operation for which it is responsible. At least one truck owned, operated, licensed, and insured by the DBE must be used on the contact. Credit will be given for the following:
  - (1) The DBE may lease trucks from another DBE firm, including an owner-operator who is certified as a DBE. The DBE who leases trucks from another DBE receives credit for the total value of the transportation services the lessee DBE provides on the contract.
  - (2) The DBE may also lease trucks from a non-DBE firm, including from an owneroperator. The DBE who leases trucks from a non-DBE is entitled to credit only for the fee or commission it receives as a result of the lease arrangement.
- (e) DBE as a material supplier:
  - (1) 60 percent goal credit for the cost of the materials or supplies purchased from a DBE regular dealer.
  - (2) 100 percent goal credit for the cost of materials or supplies obtained from a DBE manufacturer.
  - (3) 100 percent credit for the value of reasonable fees and commissions for the procurement of materials and supplies if not a regular dealer or manufacturer.

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

- (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) The Contractor must notify and obtain written approval from the Department's Bureau of Small Business Enterprises prior to replacing a DBE or making any change in the participation of a DBE. Approval for replacement will be granted only if it is demonstrated that the DBE is unable or unwilling to perform. The Contractor must make every good faith effort to find another certified DBE subcontractor to substitute for the original 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 original DBE, to the extent needed to meet the contract goal.

- (c) Any deviation from the DBE condition-of-award or contract specifications must be approved, in writing, by the Department. The Contractor shall notify affected DBEs in writing of any changes in the scope of work which result in a reduction in the dollar amount condition-of-award to the contract.
- (d) In addition to the above requirements for reductions in the condition of award, additional requirements apply to the two cases of Contractor-initiated work substitution proposals. Where the contract allows alternate work methods which serve to delete or create underruns in condition of award DBE work, and the Contractor selects that alternate method or, where the Contractor proposes a substitute work method or material that serves to diminish or delete work committed to a DBE and replace it with other work, then the Contractor must demonstrate one of the following:
  - (1) That the replacement work will be performed by the same DBE (as long as the DBE is certified in the respective item of work) in a modification of the condition of award; or
  - (2) That the DBE is aware that its work will be deleted or will experience underruns and has agreed in writing to the change. If this occurs, the Contractor shall substitute other work of equivalent value to a certified DBE or provide documentation of good faith efforts to do so; or
  - (3) That the DBE is not capable of performing the replacement work or has declined to perform the work at a reasonably competitive price. If this occurs, the Contractor shall substitute other work of equivalent value to a certified DBE or provide documentation of good faith efforts to do so.
- (e) Where the revision includes work committed to a new DBE subcontractor, not previously involved in the project, then a Request for Approval of Subcontractor, Department form BC 260A, must be signed and submitted.
- (f) If the commitment of work is in the form of additional tasks assigned to an existing subcontract, than a new Request for Approval of Subcontractor shall not be required. However, the Contractor must document efforts to assure that the existing DBE subcontractor is capable of performing the additional work and has agreed in writing to the change.
- (g) 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. The Contractor shall notify the Bureau of Small Business Enterprises of any termination for reasons other than convenience, and shall obtain approval for inclusion of the substitute DBE in the Utilization Plan. If good faith efforts following a termination of a DBE for cause are not successful, the Contractor shall contact the Bureau of Small Business Enterprises and provide a full accounting of the efforts undertaken to obtain substitute DBE participation. The Bureau of Small Business Enterprises will evaluate the good faith efforts in light of all circumstances surrounding the performance status of the contract, and determine whether the contract goal should be amended.
- (h) The Contractor shall maintain a record of payments for work performed to the DBE participants.

The records shall be made available to the Department for inspection upon request. After the performance of the final item of work or delivery of material by a DBE and final payment therefore to the DBE by the Contractor, but not later than thirty calendar days after payment has been made by the Department to the Contractor for such work or material, the Contractor shall submit a DBE Payment Agreement on Department form SBE 2115 to the Regional Engineer. If full and final payment has not been made to the DBE, the DBE Payment Agreement shall indicate whether a disagreement as to the payment required exists between the Contractor and the DBE or if the Contractor believes that the work has not been satisfactorily completed. If the Contractor does not have the full amount of work indicated in the Utilization Plan performed by the DBE companies indicated in the Utilization Plan and after good faith efforts are reviewed, the Department may deduct from contract payments to the Contractor the amount of the goal not achieved as liquidated and ascertained damages. The Contractor may request an administrative reconsideration of any amount deducted as damages pursuant to subsection (j) of this part.

- (i) 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.
- (j) Notwithstanding any other provision of the contract, including but not limited to Article 109.09 of the Standard Specifications, the Contractor may request administrative reconsideration of a decision to deduct the amount of the goal not achieved as liquidated damages. A request to reconsider shall be delivered to the Contract Compliance Section and shall be handled and considered in the same manner as set forth in paragraph (c) of "Good Faith Effort Procedures" of this Special Provision, except a final decision that a good faith effort was not made during contract performance to achieve the goal agreed to in the Utilization Plan shall be the final administrative decision of the Department.

## **EQUIPMENT RENTAL RATES (BDE)**

Effective: August 2, 2007 Revised: January 2, 2008

Replace the second and third paragraphs of Article 105.07(b)(4)a. of the Standard Specifications with the following:

"Equipment idled which cannot be used on other work, and which is authorized to standby on the project site by the Engineer, will be paid for according to Article 109.04(b)(4)."

Replace Article 109.04(b)(4) of the Standard Specifications with the following:

"(4) Equipment. Equipment used for extra work shall be authorized by the Engineer. The equipment shall be specifically described, be of suitable size and capacity for the work to be performed, and be in good operating condition. For such equipment, the Contractor will be paid as follows.

a. Contractor Owned Equipment. Contractor owned equipment will be paid for by the hour using the applicable FHWA hourly rate from the "Equipment Watch Rental Rate Blue Book" (Blue Book) in effect when the force account work begins. The FHWA hourly rate is calculated as follows.

FHWA hourly rate = (monthly rate/176) x (model year adj.) x (Illinois adj.) + EOC

Where: EOC = Estimated Operating Costs per hour (from the Blue Book)

The time allowed will be the actual time the equipment is operating on the extra work. For the time required to move the equipment to and from the site of the extra work and any authorized idle (standby) time, payment will be made at the following hourly rate: 0.5 x (FHWA hourly rate - EOC).

All time allowed shall fall within the working hours authorized for the extra work.

The rates above include the cost of fuel, oil, lubrication, supplies, small tools, necessary attachments, repairs, overhaul and maintenance of any kind, depreciation, storage, overhead, profits, insurance, and all incidentals. The rates do not include labor.

The Contractor shall submit to the Engineer sufficient information for each piece of equipment and its attachments to enable the Engineer to determine the proper equipment category. If a rate is not established in the Blue Book for a particular piece of equipment, the Engineer will establish a rate for that piece of equipment that is consistent with its cost and use in the industry.

b. Rented Equipment. Whenever it is necessary for the Contractor to rent equipment to perform extra work, the rental and transportation costs of the equipment plus five percent for overhead will be paid. In no case shall the rental rates exceed those of established distributors or equipment rental agencies.

All prices shall be agreed to in writing before the equipment is used."

## LIQUIDATED DAMAGES (BDE)

Effective: April 1, 2009 Revised: April 1, 2011

Revise the table in Article 108.09 of the Standard Specifications to read:

"Schedule of Deductions for Each Day of Overrun in Contract Time			
Original Contract Amount		Daily Charges	
From More Than	To and Including	Calendar Day	Work Day
\$ 0	\$ 100,000	\$ 475	\$ 675
100,000	500,000	750	1,050
500,000	1,000,000	1,025	1,425
1,000,000	3,000,000	1,275	1,725
3,000,000	6,000,000	1,425	2,000
6,000,000	12,000,000	2,300	3,450
12,000,000	And over	5,800	8,125"

# NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM / EROSION AND SEDIMENT CONTROL DEFICIENCY DEDUCTION (BDE)

Effective: April 1, 2007 Revised: November 1, 2009

Revise Article 105.03(a) of the Standard Specifications to read:

"(a) National Pollutant Discharge Elimination System (NPDES) / Erosion and Sediment Control Deficiency Deduction When the Engineer is notified or determines an erosion and/or sediment control deficiency(s) exists, or the Contractor's activities represents a violation of the Department's NPDES permits, the Engineer will notify and direct the Contractor to correct the deficiency within a specified time. The specified time, which begins upon notification to the Contractor, will be from 1/2 hour to 1 week based on the urgency of the situation and the nature of the work effort required. The Engineer will be the sole judge.

A deficiency may be any lack of repair, maintenance, or implementation of erosion and/or sediment control devices included in the contract, or any failure to comply with the conditions of the Department's NPDES permits. A deficiency may also be applied to situations where corrective action is not an option such as the failure to participate in a jobsite inspection of the project, failure to install required measures prior to initiating earth moving operations, disregard of concrete washout requirements, or other disregard of the NPDES permit.

If the Contractor fails to correct a deficiency within the specified time, a daily monetary deduction will be imposed for each calendar day or portion of a calendar day until the deficiency is corrected to the satisfaction of the Engineer. The calendar day(s) will begin with notification to the Contractor and end with the Engineer's acceptance of the correction. The base value of the daily monetary deduction is \$1000.00 and will be applied to each location for which a deficiency exists. The value of the deficiency deduction assessed for each infraction will be determined by multiplying the base value by a Gravity Adjustment Factor provided in Table A. Except for failure to participate in a required jobsite inspection of the project prior to initiating earthmoving operations which will be based on the total acreage of planned disturbance at the following multipliers: <5 Acres: 1; 5-10 Acres: 2; >10-25 Acres: 3; >25 Acres: 5. For those deficiencies where corrective action was not an option, the monetary deduction will be immediate and will be valued at one calendar day multiplied by a Gravity Adjustment Factor.

Table A							
Deficiency Deduction Gravity A	djustment Fa	ctors					
Types of Violations	Soil Disturbed and Not Permanently Stabilized At Time of Violation						
	< 5 Acres	5 - 10 Acres	>10 - 25 Acres	> 25 Acres			
Failure to Install or Properly Maintain BMP	0.1 - 0.5	0.2 - 1.0	0.5 - 2.5	1.0 - 5			
Careless Destruction of BMP	0.2 - 1	0.5 - 2.5	1.0 - 5.	1.0 - 5			
Intrusion into Protected Resource	1.0 - 5	1.0 - 5	2.0 - 10	2.0 - 10			
Failure to properly manage Chemicals, Concrete Washouts or Residuals, Litter or other Wastes	0.2 - 1	0.2 - 1	0.5 - 2.5	1.0 - 5			
Improper Vehicle and Equipment Maintenance, Fueling or Cleaning	0.1 - 0.5	0.2 - 1	0.2 - 1	0.5 - 2.5			
Failure to Provide or Update Written or Graphic Plans Required by SWPPP	0.2 - 1	0.5 - 2.5	1.0 - 5	1.0 - 5			
Failure to comply with Other Provisions of the NPDES Permit	0.1 - 0.5	0.2 - 1	0.2 - 1	0.5 - 2.5"			

# **NIGHTTIME WORK ZONE LIGHTING (BDE)**

Effective: November 1, 2008

<u>Description</u>. This work shall consist of furnishing, installing, maintaining, moving, and removing lighting for nighttime work zones. Nighttime shall be defined as occurring shortly before sunset until after sunrise.

<u>Materials</u>. The lighting shall consist of mobile and/or stationary lighting systems as required herein for the specific type of construction. Mobile lighting systems shall consist of luminaires attached to construction equipment or moveable carts. Stationary lighting systems shall consist of roadway luminaires mounted on temporary poles or trailer mounted light towers at fixed locations. Some lighting systems, such as balloon lights, may be adapted to both mobile and stationary applications.

Equipment. The Contractor shall furnish an illuminance meter for use by the Engineer. The meter shall have a digital display calibrated to NIST standards, shall be cosine and color corrected, and shall have an accuracy of  $\pm$  five percent. The sensor shall have a level indicator to ensure measurements are taken in a horizontal plane.

# **CONSTRUCTION REQUIREMENTS**

<u>General</u>. At the preconstruction conference, the Contractor shall submit the type(s) of lighting system to be used and the locations of all devices.

Before nighttime construction may begin, the lighting system shall be demonstrated as being operational.

<u>Nighttime Flagging</u>. The requirements for nighttime flagging shall be according to Article 701.13 of the Standard Specifications and the glare control requirements contained herein.

Lighting System Design. The lighting system shall be designed to meet the following.

- (a) Lighting Levels. The lighting system shall provide a minimum of 5 foot candles (54 lux) throughout the work area. For mobile operations, the work area shall be defined as 25 ft (9 m) in front of and behind moving equipment. For stationary operations, the work area shall be defined as the entire area where work is being performed.
  - Lighting levels will be measured with an illuminance meter. Readings will be taken in a horizontal plane 3 ft (1 m) above the pavement or ground surface.
- (b) Glare Control. The lighting system shall be designed and operated so as to avoid glare that interferes with traffic, workers, or inspection personnel. Lighting systems with flood, spot, or stadium type luminaires shall be aimed downward at the work and rotated outward no greater than 30 degrees from nadir (straight down). Balloon lights shall be positioned at least 12 ft (3.6 m) above the roadway.
  - As a large component of glare, the headlights of construction vehicles and equipment shall not be operated within the work zone except as allowed for specific construction operations. Headlights shall never be used when facing oncoming traffic.
- (c) Light Trespass. The lighting system shall be designed to effectively light the work area without spilling over to adjoining property.

When, in the opinion of the Engineer, the lighting is disturbing adjoining property, the Contractor shall modify the lighting arrangement or add hardware to shield the light trespass.

<u>Construction Operations</u>. The lighting design required above shall be provided at any location where construction equipment is operating or workers are present on foot. When multiple operations are being carried on simultaneously, lighting shall be provided at each separate work area.

The lighting requirements for specific construction operations shall be as follows.

- (a) Installation or Removal of Work Zone Traffic Control. The required lighting level shall be provided at each truck and piece of equipment used during the installation or removal of work zone traffic control. Headlights may be operated in the work zone.
- (b) Milling and Paving. The required lighting level shall be provided by mounting a minimum of one balloon light to each piece of mobile construction equipment used in the work zone. This would include milling machines, mechanical sweepers, material transfer devices, spreading and finishing machines, and rollers; but not include trucks used to transport materials and personnel or other vehicles that are continuously moving in and out of the work zone. The headlights of construction equipment shall not be operated within the work zone.
- (c) Patching. The required lighting level shall be provided at each patching location where work is being performed.
- (d) Pavement Marking and Raised Reflective Pavement Marker Removal/Installation. The striping truck and the attenuator/arrow board trucks may by operated by headlights alone; however, additional lighting may be necessary for the operator of the striping truck to perform the work.
  - For raised reflective pavement marker removal and installation and other pavement marking operations where workers are on foot, the required lighting level shall be provided at each truck and piece of equipment.
- (e) Layout, Testing, and Inspection. The required lighting level shall be provided for each active area of construction layout, material testing, and inspection. The work area shall be defined as 15 ft (7.6 m) in front and back of the individual(s) performing the tasks.

<u>Basis of Payment</u>. This work will be paid for at the contract lump sum price for NIGHTTIME WORK ZONE LIGHTING.

### PAYMENTS TO SUBCONTRACTORS (BDE)

Effective: June 1, 2000 Revised: January 1, 2006

Federal regulations found at 49 CFR §26.29 mandate the Department to establish a contract clause to require Contractors to pay subcontractors for satisfactory performance of their subcontracts and to set the time for such payments.

State law also addresses the timing of payments to be made to subcontractors and material suppliers.

Section 7 of the Prompt Payment Act, 30 ILCS 540/7, requires that when a Contractor receives any payment from the Department, the Contractor shall make corresponding, proportional payments to each subcontractor and material supplier performing work or supplying material within 15 calendar days after receipt of the Department payment. Section 7 of the Act further provides that interest in the amount of two percent per month, in addition to the payment due, shall be paid to any subcontractor or material supplier by the Contractor if the payment required by the Act is withheld or delayed without reasonable cause. The Act also provides that the time for payment required and the calculation of any interest due applies to transactions between subcontractors and lower-tier subcontractors and material suppliers throughout the contracting chain.

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

When progress payments are made to the Contractor according to Article 109.07 of the Standard Specifications, the Contractor shall make a corresponding payment to each subcontractor and material supplier in proportion to the work satisfactorily completed by each subcontractor and for the material supplied to perform any work of the contract. The proportionate amount of partial payment due to each subcontractor and material supplier throughout the contracting chain shall be determined by the quantities measured or otherwise determined as eligible for payment by the Department and included in the progress payment to the Contractor. Subcontractors and material suppliers shall be paid by the Contractor within 15 calendar days after the receipt of payment from the Department. The Contractor shall not hold retainage from the subcontractors. These obligations shall also apply to any payments made by subcontractors and material suppliers to their subcontractors and material suppliers; and to all payments made to lower tier subcontractors and material suppliers throughout the contracting chain. Any payment or portion of a payment subject to this provision may only be withheld from the subcontractor or material supplier to whom it is due for reasonable cause.

This Special Provision does not create any rights in favor of any subcontractor or material supplier against the State or authorize any cause of action against the State on account of any payment, nonpayment, delayed payment, or interest claimed by application of the State Prompt Payment Act. The Department will not approve any delay or postponement of the 15 day requirement except for reasonable cause shown after notice and hearing pursuant to Section 7(b) of the State Prompt Payment Act. State law creates other and additional remedies available to any subcontractor or material supplier, regardless of tier, who has not been paid for work properly performed or material furnished. These remedies are a lien against public funds set forth in Section 23(c) of the Mechanics Lien Act, 770 ILCS 60/23(c), and a recovery on the Contractor's payment bond according to the Public Construction Bond Act, 30 ILCS 550.

### POST MOUNTING OF SIGNS (BDE)

Effective: January 1, 2011

Revise the second paragraph of Article 701.14 of the Standard Specifications to read:

"Post mounted signs shall be a breakaway design. The sign shall be within five degrees of vertical. Two posts shall be used for signs greater than 16 sq ft (1.5 sq m) in area or where the height between the sign and the ground exceeds 7 ft (2.1 m)."

# PUBLIC CONVENIENCE AND SAFETY (BDE)

Effective: January 1, 2000

Add the following paragraph after the fourth paragraph of Article 107.09 of the Standard Specifications.

"On weekends, excluding holidays, roadways with Average Daily Traffic of 25,000 or greater, all lanes shall be open to traffic from 3:00 P.M. Friday to midnight Sunday except where structure construction or major rehabilitation makes it impractical."

### **SELECTION OF LABOR (BDE)**

Effective: July 2, 2010

Revise Section I of Check Sheet #5 of the Recurring Special Provisions to read:

### "I. SELECTION OF LABOR

The Contractor shall comply with all Illinois statutes pertaining to the selection of labor.

# EMPLOYMENT OF ILLINOIS WORKERS DURING PERIODS OF EXCESSIVE UNEMPLOYMENT

Whenever there is a period of excessive unemployment in Illinois, which is defined herein as any month immediately following two consecutive calendar months during which the level of unemployment in the State of Illinois has exceeded five percent as measured by the United States Bureau of Labor Statistics in its monthly publication of employment and unemployment figures, the Contractor shall employ at least 90 percent Illinois laborers. "Illinois laborer" means any person who has resided in Illinois for at least 30 days and intends to become or remain an Illinois resident.

Other laborers may be used when Illinois laborers as defined herein are not available, or are incapable of performing the particular type of work involved, if so certified by the Contractor and approved by the Engineer. The Contractor may place no more than three of his/her regularly employed non-resident executive and technical experts, who do not qualify as Illinois laborers, to do work encompassed by this contract during period of excessive unemployment.

This provision applies to all labor, whether skilled, semi-skilled, or unskilled, whether manual or non-manual."

#### SUBCONTRACTOR MOBILIZATION PAYMENTS (BDE)

Effective: April 2, 2005 Revised: April 1, 2011

To account for the preparatory work and operations necessary for the movement of subcontractor personnel, equipment, supplies, and incidentals to the project site and for all other work or operations that must be performed or costs incurred when beginning work approved for subcontracting according to Article 108.01 of the Standard Specifications, the Contractor shall make a mobilization payment to each subcontractor.

This mobilization payment shall be made at least 14 days prior to the subcontractor starting work.

The amount paid shall be equal to 3 percent of the amount of the subcontract reported on form BC 260A submitted for the approval of the subcontractor's work.

The mobilization payment to the subcontractor is an advance payment of the reported amount of the subcontract and is not a payment in addition to the amount of the subcontract; therefore, the amount of the advance payment will be deducted from future progress payments.

This provision shall be incorporated directly or by reference into each subcontract approved by the Department.

## TRUCK MOUNTED/TRAILER MOUNTED ATTENUATORS (BDE)

Effective: January 1, 2010

Revise Article 701.03(k) of the Standard Specifications to read:

"(k) Truck Mounted/Trailer Mounted Attenuators .......1106.02"

Revise Article 701.15(h) of the Standard Specifications to read:

"(h) Truck Mounted/Trailer Mounted Attenuators (TMA). TMA units shall have a roll ahead distance in the event of an impact. The TMA shall be between 100 and 200 ft (30 and 60 m) behind the vehicle ahead or the workers. This distance may be extended by the Engineer.

TMA host vehicles shall have the parking brake engaged when stationary.

The driver and passengers of the TMA host vehicle should exit the vehicle if the TMA is to remain stationary for 15 minutes or more in duration."

Revise Article 1106.02(g) of the Standard Specifications to read:

"(g) Truck Mounted/Trailer Mounted Attenuators. The attenuator shall be a NCHRP 350 approved unit for Test Level 3. Test Level 2 may be used as directed by the Engineer for normal posted speeds less than or equal to 45 mph."

## **UTILITY COORDINATION AND CONFLICTS (BDE)**

Effective: April 1, 2011

Revise Article 105.07 of the Standard Specifications to read:

"105.07 Cooperation with Utilities. The Department reserves the right at any time to allow work by utilities on or near the work covered by the contract. The Contractor shall conduct his/her work so as not to interfere with or hinder the progress or completion of the work being performed by utilities. The Contractor shall also arrange the work and shall place and dispose of the materials being used so as not to interfere with the operations of utility work in the area.

The Contractor shall cooperate with the owners of utilities in their removal and rearrangement operations so work may progress in a reasonable manner, duplication or rearrangement of work may be reduced to a minimum, and services rendered by those parties will not be unnecessarily interrupted.

The Contractor shall coordinate with any planned utility adjustment or new installation and the Contractor shall take all precautions to prevent disturbance or damage to utility facilities. Any failure on the part of the utility owner, or their representative, to proceed with any planned utility adjustment or new installation shall be reported promptly by the Contractor to the Engineer."

Revise the first sentence of the last paragraph of Article 107.19 of the Standard Specifications to read:

"When the Contractor encounters unexpected regulated substances due to the presence of utilities in unanticipated locations, the provisions of Article 107.40 shall apply; otherwise, if the Engineer does not direct a resumption of operations, the provisions of Article 108.07 shall apply."

Revise Article107.31 of the Standard Specification to read:

#### "107.31 Reserved."

Add the following four Articles to Section 107 of the Standard Specifications:

- "107.37 Locations of Utilities within the Project Limits. All known utilities existing within the limits of construction are either indicated on the plans or visible above ground. For the purpose of this Article, the limits of proposed construction are defined as follows:
  - (a) Limits of Proposed Construction for Utilities Paralleling the Roadway.
    - (1) The horizontal limits shall be a vertical plane, outside of, parallel to, and 2 ft (600 mm) distant at right angles from the plan or revised slope limits.
      - In cases where the limits of excavation for structures are not shown on the plans, the horizontal limits shall be a vertical plane 4 ft (1.2 m) outside the edges of structure footings or the structure where no footings are required.
    - (2) The upper vertical limits shall be the regulations governing the roadbed clearance for the specific utility involved.
    - (3) The lower vertical limits shall be either the top of the utility at the depth below the proposed grade as prescribed by the governing agency or the limits of excavation, whichever is less.
  - (b) Limits of Proposed Construction for Utilities Crossing the Roadway in a Generally Transverse Direction.
    - (1) Utilities crossing excavations for structures that are normally made by trenching such as sewers, underdrains, etc. and all minor structures such as manholes, inlets, foundations for signs, foundations for traffic signals, etc., the limits shall be the space to be occupied by the proposed permanent construction, unless otherwise required by the regulations governing the specific utility involved.
    - (2) For utilities crossing the proposed site of major structures such as bridges, sign trusses, etc., the limits shall be as defined above for utilities extending in the same general direction as the roadway.

It is understood and agreed that the Contractor has considered in the bid all of the permanent and temporary utilities in their present and/or adjusted positions as indicated in the contract. It is further understood the actual location of the utilities may be located anywhere within the tolerances provided in 220 ILCS 50/2.8 or Administrative Code Title 92 Part 530.40(c), and the proximity of some utilities to construction may require extraordinary measures by the Contractor to protect those utilities.

No additional compensation will be allowed for any delays, inconveniences, or damages sustained by the Contractor due to the presence of or any claimed interference from known utility facilities or any adjustment of them, except as specifically provided in the contract.

**107.38 Adjustments of Utilities within the Project Limits.** The adjustment of utilities consists of the relocation, removal, replacement, rearrangements, reconstruction, improvement, disconnection, connection, shifting, new installation, or altering of an existing utility facility in any manner.

Utilities which are to be adjusted shall be adjusted by the utility owner or the owner's representative or by the Contractor as a contract item. Generally, arrangements for adjusting known utilities will be made by the Department prior to project construction; however, utilities will not necessarily be adjusted in advance of project construction and, in some cases, utilities will not be removed from the proposed construction limits as described in Article 107.37. When utility adjustments must be performed in conjunction with construction, the utility adjustment work will be indicated in the contract.

The Contractor may make arrangements for adjustment of utilities indicated in the contract, but not scheduled by the Department for adjustment, provided the Contractor furnishes the Department with a signed agreement with the utility owner covering the adjustments to be made. The cost of any such adjustments shall be the responsibility of the Contractor.

107.39 Contractor's Responsibility for Locating and Protecting Utility Property and Services. At points where the Contractor's operations are adjacent to properties or facilities of utility companies, or are adjacent to other property, damage to which might result in considerable expense, loss, or inconvenience, work shall not be commenced until all arrangements necessary for the protection thereof have been made.

Within the State of Illinois, a State-Wide One Call Notice System has been established for notifying utilities. Outside the city limits of the City of Chicago, the system is known as the Joint Utility Locating Information for Excavators (JULIE) System. Within the city limits of the City of Chicago the system is known as DIGGER. All utility companies and municipalities which have buried utility facilities in the State of Illinois are a part of this system.

The Contractor shall call JULIE (800-892-0123) or DIGGER (312-744-7000), a minimum of 48 hours in advance of work being done in the area, and they will notify all member utility companies involved their respective utility should be located.

For utilities which are not members of JULIE or DIGGER, the Contractor shall contact the owners directly. The plan general notes will indicate which utilities are not members of JULIE or DIGGER.

The following table indicates the color of markings required of the State-Wide One Call Notification System.

Utility Service	Color				
Electric Power, Distribution and Transmission	Safety Red				
Municipal Electric Systems	Safety Red				
Gas Distribution and Transmission	High Visibility Safety Yellow				
Oil Distribution and Transmission	High Visibility Safety Yellow				
Telephone and Telegraph System	Safety Alert Orange				
Community Antenna Television Systems	Safety Alert Orange				
Water Systems	Safety Precaution Blue				
Sewer Systems	Safety Green				
Non-Potable Water and Slurry Lines	Safety Purple				
Temporary Survey	Safety Pink				
Proposed Excavation	Safety White (Black when snow is on the ground)				

The State-Wide One Call Notification System will provide for horizontal locations of utilities. When it is determined that the vertical location of the utility is necessary to facilitate construction, the Engineer may make the request for location from the utility after receipt of notice from the Contractor. If the utility owner does not field locate their facilities to the satisfaction of the Engineer, the Engineer will authorize the Contractor in writing to proceed to locate the facilities in the most economical and reasonable manner, subject to the approval of the Engineer, and be paid according to Article 109.04.

The Contractor shall be responsible for maintaining the excavations or markers provided by the utility owners.

The Contractor shall take all necessary precautions for the protection of the utility facilities. The Contractor shall be responsible for any damage or destruction of utility facilities resulting from neglect, misconduct, or omission in the Contractor's manner or method of execution or nonexecution of the work, or caused by defective work or the use of unsatisfactory materials. Whenever any damage or destruction of a utility facility occurs as a result of work performed by the Contractor, the utility company will be immediately notified. The utility company will make arrangements to restore such facility to a condition equal to that existing before any such damage or destruction was done.

In the event of interruption of utility services as a result of accidental breakage or as a result of being exposed or unsupported, the Contractor shall promptly notify the proper authority and shall cooperate with the said authority in the restoration of service. If water service is interrupted, repair work shall be continuous until the service is restored. No work shall be undertaken around fire hydrants until provisions for continued service have been approved by the local fire authority.

**107.40 Conflicts with Utilities.** Except as provided hereinafter, the discovery of a utility in an unanticipated location will be evaluated according to Article 104.03. It is understood and agreed that the Contractor has considered in the bid all facilities not meeting the definition of a utility in an unanticipated location and no additional compensation will be allowed for any delays, inconveniences, or damages sustained by the Contractor due to the presence of or any claimed interference from such facilities.

When the Contractor discovers a utility in an unanticipated location, the Contractor shall not interfere with said utility, shall take proper precautions to prevent damage or interruption of the utility, and shall promptly notify the Engineer of the nature and location of said utility.

- (a) Definition. A utility in an unanticipated location is defined as an active or inactive utility, which is either:
  - (1) Located underground and (a) not shown in any way in any location on the contract documents; (b) not identified in writing by the Department to the Contractor prior to the letting; or (c) not located relative to the location shown in the contract within the tolerances provided in 220 ILCS 50/2.8 or Administrative Code Title 92 Part 530.40(c); or
  - (2) Located above ground or underground and not relocated as provided in the contract.

Service connections shall not be considered to be utilities in unanticipated locations.

- (b) Compensation. Compensation will not be allowed for delays, inconveniences, or damages sustained by the Contractor from conflicts with facilities not meeting the above definition; or if a conflict with a utility in an unanticipated location does not cause a shutdown of the work applicable to the utility or a documentable reduction in the rate of progress exceeding the limits set herein. The provisions of Article 104.03 notwithstanding, compensation for delays caused by a utility in an unanticipated location will be paid according to the provisions of this Article governing minor and major delays or reduced rate of production which are defined as follows:
  - (1) Minor Delay. A minor delay occurs when the Contractor's operation is completely stopped by a utility in an unanticipated location for more than two hours, but not to exceed three weeks.
  - (2) Major Delay. A major delay occurs when the Contractor's operation is completely stopped by a utility in an unanticipated location for more than three weeks.
  - (3) Reduced Rate of Production Delay. A reduced rate of production delay occurs when the contractor's rate of production decreases by more than 25 percent and lasts longer than seven days.
- (c) Payment. Payment for Minor, Major and Reduced Rate of Production Delays will be made as follows.
  - (1) Minor Delay. Labor idled which cannot be used on other work will be paid for according to Article 109.04(b)(1) and (2) for the time between start of the delay and the minimum remaining hours in the work shift required by the prevailing practice in the area.

Equipment idled which cannot be used on other work will be paid for according to Article 109.04(b)(4). The length of time paid for will be the time between start of delay and eight hours working time from start of shift being worked.

For delays exceeding the initial shift, excluding Saturdays, Sundays, and holidays, Contractor-owned equipment idled by the delay which cannot be used on other work and remaining at the work site, will be paid at one-half the rate permitted in Article 109.04(b)(4) using a maximum eight hours per day for computation purposes.

Equipment rented from an independent source will be paid at rates being paid by the Contractor plus move-in move-out costs, but the total amount paid will not exceed three weeks rental.

(2) Major Delay. Labor will be the same as for a minor delay.

Equipment will be the same as for a minor delay, except Contractor-owned equipment will be limited to three weeks plus the cost of move-out to either the Contractor's yard or another job, whichever is less. Rental equipment may be paid for longer than three weeks provided the Contractor presents adequate support to the Department (including lease agreement) to show retaining equipment on the job is the most economical course to follow and in the public interest.

(3) Reduced Rate of Production Delay. The Contractor will be compensated for the reduced productivity for labor and equipment time in excess of the 25 percent threshold for that portion of the delay in excess of seven days. Determination of compensation will be in accordance with Article 104.02, except labor and material additives will not be permitted.

Whether covered by (1), (2) or (3) above, additional traffic control required as a result of the operation(s) delayed will be paid for according to Article 109.04 for the total length of the delay.

If the delay is clearly shown to have caused work, which would have otherwise been completed, to be done after material or labor costs have increased, such increases may be paid. Payment for materials will be limited to increased cost substantiated by documentation furnished by the Contractor. Payment for increased labor rates will include those items in Article 109.04(b)(1) and (2), except the 35 percent and ten percent additives will not be permitted. On a working day contract, a delay occurring between November 30 and May 1, when work has not started, will not be considered as eligible for payment of measured labor and material costs.

Project overhead (not including interest) will be allowed when all progress on the contract has been delayed, and will be calculated as 15 percent of the delay claim.

(d) Other Obligations of Contractor. Upon payment of a claim under this provision, the Contractor shall assign subrogation rights to the Department for the Department's efforts of recovery from any other party for monies paid by the Department as a result of any claim under this Provision. The Contractor shall fully cooperate with the Department in its efforts to recover from another party any money paid to the Contractor for delay damages under this Provision."

# WORKING DAYS (BDE)

Effective: January 1, 2002

The Contractor shall complete the work within **15** working days.

## ILLINOIS DEPARTMENT OF LABOR

# PREVAILING WAGES FOR ST. CLAIR COUNTY EFFECTIVE APRIL 2011

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 <a href="http://www.state.il.us/agency/idol/">http://www.state.il.us/agency/idol/</a> 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.

# **Saint Clair County Prevailing Wage for April 2011**

Trade Name	RG	TYP	С	Base	FRMAN	*M-F>8	OSA	OSH	H/W	Pensn	Vac
Trng	==	===	=	=====	=====	=====	===	===	====	====	=====
===== AGDEGEOG ADE GEN		DI D		27 000	20 200	1 -	1 -	2 0	F 2F0	0 050	0 000
ASBESTOS ABT-GEN 0.800		BLD		27.800	28.300	1.5	1.5	2.0	5.350	9.850	0.000
ASBESTOS ABT-MEC		BLD		28.710	29.710	1.5	1.5	2.0	6.400	2.500	0.000
0.000 BOILERMAKER 0.350		BLD		31.500	34.000	1.5	1.5	2.0	6.820	11.43	1.500
BRICK MASON		BLD		28.290	30.110	1.5	1.5	2.0	7.250	9.430	2.000
CARPENTER		ALL		33.230	34.730	1.5	1.5	2.0	6.050	5.750	0.000
0.350 CEMENT MASON 0.200		ALL		30.250	31.250	1.5	1.5	2.0	8.000	10.35	0.000
CERAMIC TILE FNSHER 0.440		BLD		25.390	0.000	1.5	1.5	2.0	5.650	5.110	0.000
ELECTRIC PWR EQMT OP		ALL		34.000	0.000	1.5	2.0	2.0	5.170	9.520	0.000
0.260 ELECTRIC PWR GRNDMAN		ALL		25.380	0.000	1.5	2.0	2.0	3.860	7.110	0.000
0.190 ELECTRIC PWR LINEMAN		ALL		39.090	40.980	1.5	2.0	2.0	5.940	10.95	0.000
0.290 ELECTRIC PWR TRK DRV		ALL		27.750	0.000	1.5	2.0	2.0	4.220	7.770	0.000
0.210 ELECTRICIAN 0.540		ALL		36.300	38.480	1.5	1.5	2.0	6.720	7.440	0.000
ELECTRONIC SYS TECH		BLD		29.920	31.670	1.5	1.5	2.0	3.200	7.400	0.000
ELEVATOR CONSTRUCTOR 0.000		BLD		42.195	47.470	2.0	2.0	2.0	10.53	10.71	2.530
FLOOR LAYER		BLD		28.930	29.680	1.5	1.5	2.0	6.050	5.750	0.000
0.350 GLAZIER		BLD		31.680	0.000	2.0	2.0	2.0	9.020	10.30	2.540
0.310 HT/FROST INSULATOR		BLD		36.260	37.260	1.5	1.5	2.0	7.150	10.46	0.000
0.500 IRON WORKER		ALL		30.350	32.350	1.5	1.5	2.0	6.360	11.85	0.000
0.420 LABORER	N	ALL		27.300	27.800	1.5	1.5	2.0	5.350	9.850	0.000
0.800 LABORER	S	ALL		25.650	26 150	1 5	1 5	2 0	E 1E0	11.40	0 000
0.800	B	АПП									
MACHINIST 0.000		BLD		43.160	45.160	1.5	1.5	2.0	7.640	8.700	0.000
MARBLE FINISHERS		BLD		25.390	0.000	1.5	1.5	2.0	5.650	5.110	0.000
MARBLE MASON 0.500		BLD		28.290	30.110	1.5	1.5	2.0	7.250	9.430	2.000
MILLWRIGHT		ALL		33.230	34.730	1.5	1.5	2.0	6.050	5.750	0.000
OPERATING ENGINEER		BLD	1	32.000	35.000	1.5	1.5	2.0	8.050	15.50	0.000
OPERATING ENGINEER		BLD	2	30.870	35.000	1.5	1.5	2.0	8.050	15.50	0.000
OPERATING ENGINEER		BLD	3	26.390	35.000	1.5	1.5	2.0	8.050	15.50	0.000
1.000 OPERATING ENGINEER		BLD	4	26.450	35.000	1.5	1.5	2.0	8.050	15.50	0.000

1.000	DID E 26 120	35.000 1.5	1.5 2.0 8.050 15.50 0.000
OPERATING ENGINEER 1.000	BLD 5 20.120	35.000 1.5	1.5 2.0 8.050 15.50 0.000
OPERATING ENGINEER	BLD 6 32.550	35.000 1.5	1.5 2.0 8.050 15.50 0.000
1.000			
OPERATING ENGINEER	BLD 7 32.850	35.000 1.5	1.5 2.0 8.050 15.50 0.000
1.000	0 00 100	25 000 1 5	1 5 0 0 0 050 15 50 0 000
OPERATING ENGINEER 1.000	BLD 8 33.130	35.000 1.5	1.5 2.0 8.050 15.50 0.000
OPERATING ENGINEER	BLD 9 34.000	35 000 1 5	1.5 2.0 8.050 15.50 0.000
1.000	שם אוני ל שםם	33.000 1.3	1.5 2.0 0.050 15.50 0.000
OPERATING ENGINEER	HWY 1 30.500	33.500 1.5	1.5 2.0 8.050 15.50 0.000
1.000			
OPERATING ENGINEER	HWY 2 29.370	33.500 1.5	1.5 2.0 8.050 15.50 0.000
1.000	HWY 3 24.890	22 500 1 5	1.5 2.0 8.050 15.50 0.000
OPERATING ENGINEER 1.000	HWY 3 24.890	33.500 1.5	1.5 2.0 8.050 15.50 0.000
OPERATING ENGINEER	HWY 4 24.950	33.500 1.5	1.5 2.0 8.050 15.50 0.000
1.000			
OPERATING ENGINEER	HWY 5 24.620	33.500 1.5	1.5 2.0 8.050 15.50 0.000
1.000	6 21 050	22 500 1 5	1 5 0 0 0 050 15 50 0 000
OPERATING ENGINEER 1.000	HWY 6 31.050	33.500 1.5	1.5 2.0 8.050 15.50 0.000
OPERATING ENGINEER	HWY 7 31.350	33.500 1.5	1.5 2.0 8.050 15.50 0.000
1.000			
OPERATING ENGINEER	HWY 8 31.630	33.500 1.5	1.5 2.0 8.050 15.50 0.000
1.000	0 20 500	22 500 1 5	1 5 0 0 0 050 15 50 0 000
OPERATING ENGINEER 1.000	HWY 9 32.500	33.500 1.5	1.5 2.0 8.050 15.50 0.000
PAINTER	BLD 29.250	30.750 1.5	1.5 2.0 4.950 7.920 0.000
0.550			
PAINTER	HWY 30.450	31.950 1.5	1.5 2.0 4.950 7.920 0.000
0.550	DID 20 0E0	21 750 1 5	1 5 2 2 4 252 7 222 2 222
PAINTER OVER 30FT 0.550	BLD 30.250	31.750 1.5	1.5 2.0 4.950 7.920 0.000
PAINTER PWR EQMT	BLD 30.250	31.750 1.5	1.5 2.0 4.950 7.920 0.000
0.550			
PAINTER PWR EQMT	HWY 31.450	32.950 1.5	1.5 2.0 4.950 7.920 0.000
0.550	377 22 020	24 520 1 5	1 5 0 0 6 050 5 750 0 000
PILEDRIVER 0.350	ALL 33.230	34.730 1.5	1.5 2.0 6.050 5.750 0.000
	BLD 33.350	35.350 1.5	1.5 2.0 6.440 7.750 0.000
0.600			
	BLD 34.500	37.000 1.5	1.5 2.0 7.200 5.300 0.000
0.575	DID 30 0E0	21 250 1 5	1.5 2.0 8.000 8.250 0.000
PLASTERER 0.050	BLD 30.250	31.250 1.5	1.5 2.0 8.000 8.250 0.000
	BLD 34.650	37.150 1.5	1.5 2.0 5.900 6.100 0.000
0.400			
	BLD 34.500	37.000 1.5	1.5 2.0 7.200 5.300 0.000
0.575 ROOFER	DID 20 6E0	30.650 1.5	1.5 2.0 7.650 6.650 0.000
0.200	BLD 28.650	30.030 1.3	1.5 2.0 7.850 8.850 0.000
SHEETMETAL WORKER	ALL 31.390	32.890 1.5	1.5 2.0 6.430 6.490 1.890
0.360			
SPRINKLER FITTER	BLD 37.230	40.230 2.0	2.0 2.0 8.050 9.700 0.000
0.850	DID 21 040	0 000 1 5	1 5 2 0 5 650 1 040 0 000
TERRAZZO FINISHER 0.070	BLD 31.240	0.000 1.5	1.5 2.0 5.650 1.940 0.000
TERRAZZO MASON	BLD 32.530	32.830 1.5	1.5 2.0 5.650 4.980 0.000
0.070			
TRUCK DRIVER	ALL 1 29.600	0.000 1.5	1.5 2.0 9.050 4.500 0.000

0.250											
TRUCK 0.250	DRIVER	ALL 2	2	30.020	0.000	1.5	1.5	2.0	9.050	4.500	0.000
	DRIVER	ALL 3	3	30.230	0.000	1.5	1.5	2.0	9.050	4.500	0.000
0.250											
	DRIVER	ALL 4	4	30.490	0.000	1.5	1.5	2.0	9.050	4.500	0.000
0.250											
TRUCK	DRIVER	ALL 5	5	31.280	0.000	1.5	1.5	2.0	9.050	4.500	0.000
0.250											
TRUCK	DRIVER	0&C	1	23.680	0.000	1.5	1.5	2.0	9.050	4.500	0.000
0.250											
TRUCK	DRIVER	0&C 2	2	24.020	0.000	1.5	1.5	2.0	9.050	4.500	0.000
0.250											
TRUCK	DRIVER	0&C	3	24.180	0.000	1.5	1.5	2.0	9.050	4.500	0.000
0.250											
TRUCK	DRIVER	0&C 4	4	24.390	0.000	1.5	1.5	2.0	9.050	4.500	0.000
0.250											
TRUCK	DRIVER	0&C !	5	25.020	0.000	1.5	1.5	2.0	9.050	4.500	0.000
0.250											

#### 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**

ST. CLAIR COUNTY

LABORERS (NORTH) - The area bounded by Route 159 to a point south of Fairview Heights and west-southwest to Route 3 at Monroe County line.

PLUMBERS & PIPEFITTERS (SOUTHEAST) - That part of the county bordered by Rt. 50 on the North and West including Belleville.

PLUMBERS (NORTHWEST) - Towns of Aloraton, Brooklyn, Cahokia, Caseyville, Centreville, Dupo, East Carondelet, E. St. Louis, Fairview Heights, French Village, National City, O'Fallon, Sauget, and Washington Park.

The following list is considered as those days for which holiday rates of wages for work performed apply: New Years Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day and Veterans Day in some classifications/counties. 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. 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/mold and hazardous materials from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold and hazardous 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 AND MARBLE FINISHER

The handling, at the building site, of all sand, cement, tile, marble or stone and all other materials that may be used and installed by [a] tile layer or marble mason. In addition, the grouting, cleaning, sealing, and mixing on the job site, and all other work as required in assisting the setter. 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

Installation, service and maintenance of low-voltage systems which utilizes the transmission and/or transference of voice, sound, vision, or digital for commercial, education, security and entertainment purposes for the following: TV monitoring and surveillance, background/foreground music, intercom and telephone interconnect, field programming, inventory control systems, microwave transmission, multi-media, multiplex, radio page, school, intercom and sound burglar alarms and low voltage master clock systems.

Excluded from this classification are energy management systems, life safety systems, supervisory controls and data acquisition systems not intrinsic with the above listed systems, fire alarm systems, nurse call systems and raceways exceeding fifteen feet in length.

#### OPERATING ENGINEER - BUILDING

GROUP I. Cranes, Dragline, Shovels, Skimmer Scoops, Clamshells or Derrick Boats, Pile Drivers, Crane-Type Backhoes, Asphalt Plant Operators, Concrete Plant Operators, Dredges, Asphalt Spreading Machines, All Locomotives, Cable Ways or Tower Machines, Hoists, Hydraulic Backhoes, Ditching Machines or Backfiller, Cherrypickers, Overhead Cranes, Roller - Steam or Gas, Concrete Pavers, Excavators, Concrete Breakers, Concrete Pumps, Bulk Cement Plants, Cement Pumps, Derrick-Type Drills, Boat Operators, Motor Graders or Pushcats, Scoops or Tournapulls, Bulldozers, Endloaders or Fork Lifts, Power Blade or Elevating Graders, Winch Cats, Boom or Winch Trucks or Boom Tractors, Pipe Wrapping or Painting Machines, Asphalt Plant Engineer, Journeyman Lubricating Engineer, Drills (other than Derrick Type), Mud Jacks, or

Well Drilling Machines, Boring Machines or Track Jacks, Mixers, Conveyors (Two), Air Compressors (Two), Water Pumps regardless of size (Two), Welding Machines (Two), Siphons or Jets (Two), Winch Heads or Apparatuses (Two), Light Plants (Two), All Tractors regardless of size (straight tractor only), Fireman on Stationary Boilers, Automatic Elevators, Form Grading Machines, Finishing Machines, Power Sub-Grader or Ribbon Machines, Longitudinal Floats, Distributor Operators on Trucks, Winch Heads or Apparatuses (One), Mobil Track air and heaters (two to five), Heavy Equipment Greaser, Relief Operator, Assistant Master Mechanic and Heavy Duty Mechanic, self-propelled concrete saws of all types and sizes with their attachments, gob-hoppers, excavators all sizes, the repair and greasing of all diesel hammers, the operation and set-up of bidwells, water blasters of all sizes and their clutches, hydraulic jacks where used for hoisting, operation of log skidders, iceolators used on and off of pipeline, condor cranes, bow boats, survey boats, bobcats and all their attachments, skid steer loaders and all their attachments, creter cranes, batch plants, operator (all sizes), self propelled roto mills, operation of conveyor systems of any size and any configuration, operation, repair and service of all vibratory hammers, all power pacs and their controls regardless of location, curtains or brush burning machines, stump cutter machines, Nail launchers when mounted on a machine or self-propelled, operation of con-cover machines, and all Operators except those listed below).

#### GROUP II. Assistant Operators.

GROUP III. Air Compressors (One), Water Pumps, regardless of Size (One), Waterblasters (one), Welding Machine (One), Mixers (One Bag), Conveyor (One), Siphon or Jet (One), Light Plant (One), Heater (One), Immobile Track Air (One), and Self Propelled Walk-Behind Rollers.

GROUP IV. Asphalt Spreader Oilers, Fireman on Whirlies and Heavy Equipment Oilers, Truck Cranes, Dredges, Monigans, Large Cranes - (Over 65-ton rated capacity) Concrete Plant Oiler, Blacktop Plant Oiler, and Creter Crane Oiler (when required).

GROUP V. Oiler.

GROUP VI. Operators on equipment with Booms, including jibs, 100 feet and over, and less than 150 feet long.

GROUP VII. Operators on equipment with Booms, including jibs, 150 feet and over, and less than 200 feet long.

GROUP VIII. Operators on Equipment with Booms, including jibs, 200 feet and over; Tower Cranes; and Whirlie Cranes.

GROUP IX. Master Mechanic

OPERATING ENGINEERS - Highway

GROUP I. Cranes, Dragline, Shovels, Skimmer Scoops, Clamshells or Derrick Boats, Pile Drivers, Crane-Type Backhoes, Asphalt Plant Operators, Concrete Plant Operators, Dredges, Asphalt Spreading Machines, All Locomotives, Cable Ways or Tower Machines, Hoists, Hydraulic Backhoes, Ditching Machines or Backfiller, Cherrypickers, Overhead Cranes, Roller - Steam or Gas, Concrete Pavers, Excavators, Concrete Breakers, Concrete Pumps, Bulk Cement Plants, Cement Pumps, Derrick-Type Drills, Boat Operators, Motor Graders or Pushcats, Scoops or Tournapulls, Bulldozers, Endloaders or Fork Lifts, Power Blade or Elevating Graders, Winch Cats, Boom or Winch Trucks or Boom Tractors,

Pipe Wrapping or Painting Machines, Asphalt Plant Engineer, Journeyman Lubricating Engineer, Drills (other than Derrick Type), Mud Jacks, Well Drilling Machines, Boring Machines, Track Jacks, Mixers, Conveyors (Two), Air Compressors (Two), Water Pumps regardless of size (Two), Welding Machines (Two), Siphons or Jets (Two), Winch Heads or Apparatuses (Two), Light Plants (Two), All Tractors regardless of size (straight tractor only), Fireman on Stationary Boilers, Automatic Elevators, Form Grading Machines, Finishing Machines, Power Sub-Grader or Ribbon Machines, Longitudinal Floats, Distributor Operators on Trucks, Winch Heads or Apparatuses (One), Mobil Track air and heaters (two to five), Heavy Equipment Greaser, Relief Operator, Assistant Master Mechanic and Heavy Duty Mechanic, self-propelled concrete saws of all types and sizes with their attachments, gob-hoppers, excavators all sizes, the repair and greasing of all diesel hammers, the operation and set-up of bidwells, water blasters of all sizes and their clutches, hydraulic jacks where used for hoisting, operation of log skidders, iceolators used on and off of pipeline, condor cranes, bow boats, survey boats, bobcats and all their attachments, skid steer loaders and all their attachments, creter cranes, batch plants, operator (all sizes), self propelled roto mills, operation of conveyor systems of any size and any configuration, operation, repair and service of all vibratory hammers, all power pacs and their controls regardless of location, curtains or brush burning machines, stump cutter machines, Nail launchers when mounted on a machine or self-propelled, operation of con-cover machines, and all Operators (except those listed below).

GROUP II. Assistant Operators.

GROUP III. Air Compressors (One), Water Pumps, regardless of Size (One), Waterblasters (one), Welding Machine (One), Mixers (One Bag), Conveyor (One), Siphon or Jet (One), Light Plant (One), Heater (One), Immobile Track Air (One), and Self Propelled Walk-Behind Rollers.

GROUP IV. Asphalt Spreader Oilers, Fireman on Whirlies and Heavy Equipment Oilers, Truck Cranes, Dredges, Monigans, Large Cranes - (Over 65-ton rated capacity) Concrete Plant Oiler, Blacktop Plant Oiler, and Creter Crane Oiler (when required).

GROUP V. Oiler.

GROUP VI. Operators on equipment with Booms, including jibs, 100 feet and over, and less than 150 feet long.

GROUP VII. Operators on equipment with Booms, including jibs, 150 feet and over, and less than 200 feet long.

GROUP VIII. Operators on Equipment with Booms, including jibs, 200 feet and over; Tower Cranes; and Whirlie Cranes.

GROUP IX. Mechanic

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, vactor 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.

#### TERRAZZO FINISHER

The handling of all materials used for Mosaic and Terrazzo work including preparing, mixing by hand, by mixing machine or transporting of pre-mixed materials and distributing with shovel, rake, hoe, or pail, all kinds of concrete foundations necessary for Mosaic and Terrazzo work, all cement terrazzo, magnesite terrazzo, Do-O-Tex terrazzo, epoxy matrix ter-razzo, exposed aggregate, rustic or rough washed for exterior or interior of buildings placed either by machine or by hand, and any other kind of mixture of plastics composed of chips or granules when mixed with cement, rubber, neoprene, vinyl, magnesium chloride or any other resinous or chemical substances used for seamless flooring systems, and all other building materials, all similar materials and all precast terrazzo work on jobs, all scratch coat used for Mosaic and Terrazzo work and sub-bed, tar paper and wire mesh (2x2 etc.) or lath. The rubbing, grinding, cleaning and finishing of same either by hand or by machine or by terrazzo resurfacing equipment on new or existing floors. When necessary finishers shall be allowed to assist the mechanics to spread sand bed, lay tarpaper and wire mesh (2x2 etc.) or lath. The finishing of cement floors where additional aggregate of stone is added by spreading or sprinkling on top of the finished base, and troweled or rolled into the finish and then the surface is ground by grinding machines.

#### 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 217-782-1710 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.