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

PREQUALIFICATION

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

REQUESTS FOR AUTHORIZATION TO BID

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

WHO CAN BID?

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

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

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

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

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

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

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

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

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

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

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

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

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

WHO SHOULD BE CALLED IF ASSISTANCE IS NEEDED?

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

ADDENDUMS AND REVISIONS TO THE PROPOSAL FORMS

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

121

BIDDERS NEED NOT RETURN THE ENTIRE PROPOSAL

See instructions inside front cover)

1121 01111 212
Proposal Submitted By
Name
Address
City

Letting June 17, 2005

NOTICE TO PROSPECTIVE BIDDERS

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

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



Springfield, Illinois 62764

Contract No. 62859
WILL County
Section G-R-I-4
District 1 Construction Funds
Route FAP 607

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

Prepared by

S

Checked by

INSTRUCTIONS

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

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

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

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

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

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

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

WHO SHOULD BE CALLED IF ASSISTANCE IS NEEDED?

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



PROPOSAL

TO THE DEPARTMENT OF TRANSPORTATION

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

Contract No. 62859
WILL County
Section G-R-I-4
Route FAP 607
District 1 Construction Funds

Pinion gear and rock replacement on the structure carrying U.S. Route 30/52 (Cass Street) over the Des Plaines River in Joliet.

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.

BD 353A (Rev. 11/2001)

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

	Amount o	of Bid	Proposal <u>Guaranty</u>		Amount o	Proposal of Bid <u>Guaranty</u>
Up to		\$5,000	\$150	\$2,000,000	to	\$3,000,000\$100,000
\$5,000	to	\$10,000	\$300	\$3,000,000	to	\$5,000,000 \$150,000
\$10,000	to	\$50,000	\$1,000	\$5,000,000	to	\$7,500,000 \$250,000
\$50,000	to	\$100,000	\$3,000	\$7,500,000	to	\$10,000,000 \$400,000
\$100,000	to	\$150,000	\$5,000	\$10,000,000	to	\$15,000,000 \$500,000
\$150,000	to	\$250,000	\$7,500	\$15,000,000	to	\$20,000,000 \$600,000
\$250,000	to	\$500,000	. \$12,500	\$20,000,000	to	\$25,000,000\$700,000
\$500,000	to	\$1,000,000	. \$25,000	\$25,000,000	to	\$30,000,000 \$800,000
\$1,000,000	to	\$1,500,000	. \$50,000	\$30,000,000	to	\$35,000,000 \$900,000
\$1,500,000	to	\$2,000,000	. \$75,000	over		\$35,000,000 \$1,000,000

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

If a combination bid is submitted,	the proposal guaranties which	accompany the individual	proposals making up the	combination will be consi-	dered 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.

County

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

BD 354 (Rev. 11/2001)

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

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

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

Schedule of Combination Bids

Combination		Combinatio	Combination Bid			
No.	Sections Included in Combination	Dollars	Cents			

- 7. SCHEDULE OF PRICES. The undersigned bidder submits herewith, in accordance with the rules and instructions, a schedule of prices for the items of work for which bids are sought. The unit prices bid are in U.S. dollars and cents, and all extensions and summations have been made. The bidder understands that the quantities appearing in the bid schedule are approximate and are provided for the purpose of obtaining a gross sum for the comparison of bids. If there is an error in the extension of the unit prices, the unit prices shall govern. Payment to the contractor awarded the contract will be made only for actual quantities of work performed and accepted or materials furnished according to the contract. The scheduled quantities of work to be done and materials to be furnished may be increased, decreased or omitted as provided elsewhere in the contract.
- 8. **CERTIFICATE OF AUTHORITY.** The undersigned bidder, if a business organized under the laws of another State, assures the Department that it will furnish a copy of its certificate of authority to do business in the State of Illinois with the return of the executed contract and bond. Failure to furnish the certificate within the time provided for execution of an awarded contract may be cause for cancellation of the award and forfeiture of the proposal guaranty to the State.

ILLINOIS DEPARTMENT OF TRANSPORTATION SCHEDULE OF PRICES CONTRACT NUMBER - 62859

State Job # - C-91-036-05

 PPS NBR 0-00845-1032
 Project Number
 Route

 County Name WILL FAP 607

County Name - WILL- Code - 197 - District - 1 - -

Section Number - G-R-I-4

Item Number	Pay Item Description	Unit of Measure	Quantity	х	Unit Price	=	Total Price
X0322467	TEMP INFO SIGN LN CLS	SQ FT	48.000				
X0323343	MECHANICAL WORK	L SUM	1.000				
67000400	ENGR FIELD OFFICE A	CAL MO	3.000				
67100100	MOBILIZATION	L SUM	1.000				
70102550	TR CONT-PROT TEMP DET	EACH	1.000				

CON	ITD	ACT	NII	IR/	IBER
COL	M I L	ACI	INC	JΙV	IDEN

62859

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. By execution of the Proposal Signature Sheet, the bidder indicates that each of the mandated assurances has been read and understood, that each certification is made and understood, and that each disclosure requirement has been understood and completed.
- **C.** In addition to all other remedies provided by law, failure to comply with any assurance, failure to make any disclosure or the making of a false certification shall be grounds for termination of the contract and the suspension or debarment of the bidder.

II. ASSURANCES

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

B. Felons

1. The Illinois Procurement Code provides:

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

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

C. Conflicts of Interest

1. The Illinois Procurement Code provides in pertinent part:

Section 50-13. Conflicts of Interest.

- (a) Prohibition. It is unlawful for any person holding an elective office in this State, holding a seat in the General Assembly, or appointed to or employed in any of the offices or agencies of state government and who receives compensation for such employment in excess of 60% of the salary of the Governor of the State of Illinois, or who is an officer or employee of the Capital Development Board or the Illinois Toll Highway Authority, or who is the spouse or minor child of any such person to have or acquire any contract, or any direct pecuniary interest in any contract therein, whether for stationery, printing, paper, or any services, materials, or supplies, that will be wholly or partially satisfied by the payment of funds appropriated by the General Assembly of the State of Illinois or in any contract of the Capital Development Board or the Illinois Toll Highway authority.
- (b) Interests. It is unlawful for any firm, partnership, association or corporation, in which any person listed in subsection (a) is entitled to receive (i) more than 7 1/2% of the total distributable income or (ii) an amount in excess of the salary of the Governor, to have or acquire any such contract or direct pecuniary interest therein.
- (c) Combined interests. It is unlawful for any firm, partnership, association, or corporation, in which any person listed in subsection (a) together with his or her spouse or minor children is entitled to receive (i) more than 15%, in the aggregate, of the total distributable income or (ii) an amount in excess of 2 times the salary of the Governor, to have or acquire any such contract or direct pecuniary interest therein.
- (d) Securities. Nothing in this Section invalidates the provisions of any bond or other security previously offered or to be offered for sale or sold by or for the State of Illinois.
- (e) Prior interests. This Section does not affect the validity of any contract made between the State and an officer or employee of the State or member of the General Assembly, his or her spouse, minor child or any combination of those persons if that contract was in existence before his or her election or employment as an officer, member, or employee. The contract is voidable, however, if it cannot be completed within 365 days after the officer, member, or employee takes office or is employed.

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

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

D. Negotiations

1. The Illinois Procurement Code provides in pertinent part:

Section 50-15. Negotiations.

- (a) It is unlawful for any person employed in or on a continual contractual relationship with any of the offices or agencies of State government to participate in contract negotiations on behalf of that office or agency with any firm, partnership, association, or corporation with whom that person has a contract for future employment or is negotiating concerning possible future employment.
- 2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-15, and that the bidder has no knowledge of any facts relevant to the kinds of acts prohibited therein.

E. Inducements

1. The Illinois Procurement Code provides:

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

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

F. Revolving Door Prohibition

1. The Illinois Procurement Code provides:

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

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

G. Reporting Anticompetitive Practices

1. The Illinois Procurement Code provides:

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

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

H. Confidentiality

1. The Illinois Procurement Code provides:

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

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

I. Insider Information

1. The Illinois Procurement Act provides:

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

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

III. CERTIFICATIONS

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

B. Bribery

1. The Illinois Procurement Code provides:

Section 50-5. Bribery.

- (a) Prohibition. No person or business shall be awarded a contract or subcontract under this Code who:
 - (1) has been convicted under the laws of Illinois or any other state of bribery or attempting to bribe an officer or employee of the State of Illinois or any other state in that officer's or employee's official capacity; or
 - (2) has made an admission of guilt of that conduct that is a matter of record but has not been prosecuted for that conduct.
- (b) Businesses. No business shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of the business if the employee or agent is no longer employed by the business and:
 - (1) the business has been finally adjudicated not guilty; or
 - (2) the business demonstrates to the governmental entity with which it seeks to contract, and that entity finds that the commission of the offense was not authorized, requested, commanded, or performed by a director, officer, or high managerial agent on behalf of the business as provided in paragraph (2) of subsection (a) of Section 5-4 of the Criminal Code of 1961.
- (c) Conduct on behalf of business. For purposes of this Section, when an official, agent, or employee of a business committed the bribery or attempted bribery on behalf of the business and in accordance with the direction or authorization of a responsible official of the business, the business shall be chargeable with the conduct.
- (d) Certification. Every bid submitted to and contract executed by the State shall contain a certification by the contractor that the contractor is not barred from being awarded a contract or subcontract under this Section. A contractor who makes a false statement, material to the certification, commits a Class 3 felony.
- 2. The bidder certifies that it is not barred from being awarded a contract under Section 50.5.

C. Educational Loan

- 1. Section 3 of the Educational Loan Default Act provides:
- § 3. No State agency shall contract with an individual for goods or services if that individual is in default, as defined in Section 2 of this Act, on an educational loan. Any contract used by any State agency shall include a statement certifying that the individual is not in default on an educational loan as provided in this Section.
- 2. The bidder, if an individual as opposed to a corporation, partnership or other form of business organization, certifies that the bidder is not in default on an educational loan as provided in Section 3 of the Act.

D. Bid-Rigging/Bid Rotating

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

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

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

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

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

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

E. International Anti-Boycott

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

F. Drug Free Workplace

- 1. The Illinois "Drug Free Workplace Act" applies to this contract and it is necessary to comply with the provisions of the "Act" if the contractor is a corporation, partnership, or other entity (including a sole proprietorship) which has 25 or more employees.
- 2. The bidder certifies that if awarded a contract in excess of \$5,000 it will provide a drug free workplace by:
- (a) Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance, including cannabis, is prohibited in the contractor's workplace; specifying the actions that will be taken against employees for violations of such prohibition; and notifying the employee that, as a condition of employment on such contract, the employee shall abide by the terms of the statement, and notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction.
- (b) Establishing a drug free awareness program to inform employees about the dangers of drug abuse in the workplace; the contractor's policy of maintaining a drug free workplace; any available drug counseling, rehabilitation, and employee assistance programs; and the penalties that may be imposed upon employees for drug violations.
- (c) Providing a copy of the statement required by subparagraph (1) to each employee engaged in the performance of the contract and to post the statement in a prominent place in the workplace.
- (d) Notifying the Department within ten (10) days after receiving notice from an employee or otherwise receiving actual notice of the conviction of an employee for a violation of any criminal drug statute occurring in the workplace.
- (e) Imposing or requiring, within 30 days after receiving notice from an employee of a conviction or actual notice of such a conviction, an appropriate personnel action, up to and including termination, or the satisfactory participation in a drug abuse assistance or rehabilitation program approved by a federal, state or local health, law enforcement or other appropriate agency.
- (f) Assisting employees in selecting a course of action in the event drug counseling, treatment, and rehabilitation is required and indicating that a trained referral team is in place.
- (g) Making a good faith effort to continue to maintain a drug free workplace through implementation of the actions and efforts stated in this certification.

G. Debt Delinquency

1. The Illinois Procurement Code provides:

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

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

H. Sarbanes-Oxley Act of 2002

1. The Illinois Procurement Code provides:

Section 50-60(c).

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

I. ADDENDA

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

J. Section 42 of the Environmental Protection Act

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

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

In accordance with the provisions of Section 30-22 (6) of the Illinois Procurement Code, the bidder certifies that it is a participant. either as an individual or as part of a group program, in the approved apprenticeship and training programs applicable to each type of work or craft that the bidder will perform with its own forces. The bidder further certifies for work that will be performed by subcontract that each of its subcontractors submitted for approval either (a) is, at the time of such bid, participating in an approved, applicable apprenticeship and training program; or (b) will, prior to commencement of performance of work pursuant to this contract, begin participation in an approved apprenticeship and training program applicable to the work of the subcontract. The Department, at any time before or after award, may require the production of a copy of each applicable Certificate of Registration issued by the United States Department of Labor evidencing such participation by the contractor and 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

IV. DISCLOSURES

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

B. Financial Interests and Conflicts of Interest

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

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

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

2. <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 or incorporated by reference.**

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

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

The Department has retained the Form A disclosures submitted by all bidders responding to these requirements for the April 24, 1998 or any subsequent letting conducted by the Department. The bidder has the option of submitting the information again or the bidder may sign the following certification statement indicating that the information previously submitted by the bidder is, as of the date of signature, current and accurate. The Certification must be signed and dated by a person who is authorized to execute contracts for the bidding company. Before signing this certification, the bidder should carefully review its prior submissions to ensure the Certification is correct. If the Bidder signs the Certification, the Bidder should proceed to Form B instructions.

CERTIFICATION STATEMENT

ac	I have determined that the Form A disclosure information previously submitted is current and accurate, and all forms are hereby incorporated by reference in this bid. Any necessary additional forms or amendments to previously submitted forms are attached to this bid.							
-	(Bidding Company)							
-	Name of Authorized Repre	esentative (type or print)	Title of Authorized Repre	esentative (type or print)				
		Signature of Author	prized Representative	Date				

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

D.

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

1.	Does anyone in your organization have a direct or beneficial ownership share of greater than 5% of the bidding entity or parent entity? YES NO
2.	Does anyone in your organization have a direct or beneficial ownership share of less than 5%, but which has a value greater than \$90,420.00? YES NO
3.	Does anyone in your organization receive more than \$90,420.00 of the bidding entity's or parent entity's distributive income? (Note: Distributive income is, for these purposes, any type of distribution of profits. An annual salary is not distributive income.) YES NO
4.	Does anyone in your organization receive greater than 5% of the bidding entity's or parent entity's total distributive income, but which is less than \$90,420.00? YES NO
	(Note: Only one set of forms needs to be completed <u>per person per bid</u> even if a specific individual would require a yes answer to more than one question.)
bidding e authorize	answer to any of these questions requires the completion of Form A. The bidder must determine each individual in the bidding entity or the ntity's parent company that would cause the questions to be answered "Yes". Each form must be signed and dated by a person that is d to execute contracts for your organization. Photocopied or stamped signatures are not acceptable . The person signing can be, but have to be, the person for which the form is being completed. The bidder is responsible for the accuracy of any information provided.
If the ans a person	wer 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 that is authorized to execute contracts for your company.
bidding e	Identifying Other Contracts & Procurement Related Information Disclosure Form B must be completed for each bid submitted by the ntity. It must be signed by an individual who is authorized to execute contracts for the bidding entity. Note: Signing the NOT INBLE STATEMENT On Form A does not allow the bidder to ignore Form B. Form B must be completed, signed and dated or the bidder considered nonresponsive and the bid will not be accepted.
ongoing	er shall identify, by checking Yes or No on Form B, whether it has any pending contracts (including leases), bids, proposals, or other procurement relationship with any other (non-IDOT) State of Illinois agency. If "No" is checked, the bidder only needs to complete the box on the bottom of Form B. If "Yes" is checked, the bidder must do one of the following:
agency p attached and are r	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 ending contracts, leases, bids, proposals, and other ongoing procurement relationships. These items may be listed on Form B or on an sheet(s). Do not include IDOT contracts. Contracts with cities, counties, villages, etc. are not considered State of Illinois agency contracts to be included. Contracts with other State of Illinois agencies such as the Department of Natural Resources or the Capital Development ust be included. Bidders who submit Affidavits of Availability are suggested to use Option II.
"See Afficagency p	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 davit of Availability" which indicates that the Affidavit of Availability is incorporated by reference and includes all non-IDOT State of Illinois ending contracts, leases, bids, proposals, and other ongoing procurement relationships. For any contracts that are not covered by the f Availability, the bidder must identify them on Form B or on an attached sheet(s). These might be such things as leases.
Bidders	Submitting More Than One Bid
	ubmitting multiple bids may submit one set of forms consisting of all required Form A disclosures and one Form B for use with all bids. dicate in the space provided below the bid item that contains the original disclosure forms and the bid items which incorporate the forms nce.
	e bid submitted for letting item contains the Form A disclosures or Certification Statement and the Form B closures. The following letting items incorporate the said forms by reference:

ILLINOIS DEPARTMENT OF TRANSPORTATION

Form A Financial Information & Potential Conflicts of Interest Disclosure

Contractor Name		
Legal Address		
City, State, Zip		
Telephone Number	Email Address	Fax Number (if available)
Disclosure of the information contained in the 30 ILCS 500). Vendors desiring to enter interest and potential conflict of interest information as the publicly available contract file. This Founded contracts. A publicly traded comparts action of the requirements set forth	to a contract with the State of Illinois as specified in this Disclosure Form rm A must be completed for bids in a pany may submit a 10K disclo	s must disclose the financial information. This information shall become part of in excess of \$10,000, and for all open sure (or equivalent if applicable) in Instructions.
1. Disclosure of Financial Information. terms of ownership or distributive income s \$90,420.00 (60% of the Governor's salary a separate Disclosure Form A for each inc FOR INDIVIDUAL (type or print informa NAME:	hare in excess of 5%, or an interest as of 7/1/01). (Make copies of this lividual meeting these requireme	which has a value of more than form as necessary and attach a
ADDRESS		
Type of ownership/distributable inco	me share:	
stock sole proprietorship % or \$ value of ownership/distributable i		other: (explain on separate sheet):
2. Disclosure of Potential Conflicts of In potential conflict of interest relationships ap and describe.		
(a) State employment, currently or in t		ractual employment of services. YesNo
If your answer is yes, please answe	er each of the following questions.	
 Are you currently an officer Highway Authority? 	r or employee of either the Capitol [Development Board or the Illinois Toll YesNo
currently appointed to or er	ed to or employed by any agency of the State % of the Governor's salary as of 7/	of Illinois, and your annual salary

agency for which you are employed and your annual salary.

3.	If you are currently appointed to or employed by any agency of the S salary exceeds \$90,420.00, (60% of the Governor's salary as of 7/1 (i) more than 7 1/2% of the total distributable income of your firm corporation, or (ii) an amount in excess of the salary of the Governor	/01) are you entitled to receive , partnership, association or
4.	If you are currently appointed to or employed by any agency of the S salary exceeds \$90,420.00, (60% of the Governor's salary as of 7/1 or minor children entitled to receive (i) more than 15 % in the aggrincome of your firm, partnership, association or corporation, or (ii) are the salary of the Governor?	/01) are you and your spouse egate of the total distributable
•	oyment of spouse, father, mother, son, or daughter, including contractious 2 years.	ctual employment services
If your ans	wer is yes, please answer each of the following questions.	YesNo
1.	Is your spouse or any minor children currently an officer or employee Board or the Illinois Toll Highway Authority?	e of the Capitol Development YesNo
2.	Is your spouse or any minor children currently appointed to or emplo of Illinois? If your spouse or minor children is/are currently appagency of the State of Illinois, and his/her annual salary exceed Governor's salary as of 7/1/01) provide the name of your spouse a of the State agency for which he/she is employed and his/her annual	pointed to or employed by any ds \$90,420.00, (60 % of the nd/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 \$90,420.00, (60% as of 7/1/01) are you entitled to receive (i) more then 71/2% of the to firm, partnership, association or corporation, or (ii) an amount in Governor?	% of the salary of the Governor tal distributable income of your
4.	If your spouse or any minor children are currently appointed to or endestate of Illinois, and his/her annual salary exceeds \$90,420.00, (60% 7/1/01) are you and your spouse or minor children entitled to recapgregate of the total distributable income of your firm, partnership, (ii) an amount in excess of 2 times the salary of the Governor?	of the Governor's salary as of eive (i) more than 15 % in the
		YesNo
unit of	ve status; the holding of elective office of the State of Illinois, the gover local government authorized by the Constitution of the State of Illinois currently or in the previous 3 years.	
	onship to anyone holding elective office currently or in the previous 2 yr daughter.	years; spouse, father, mother, YesNo
Ameri of the	ntive office; the holding of any appointive government office of the Staca, or any unit of local government authorized by the Constitution of the State of Illinois, which office entitles the holder to compensation in exceptange of that office currently or in the previous 3 years.	he State of Illinois or the statutes
` '	onship to anyone holding appointive office currently or in the previous 2 daughter.	2 years; spouse, father, mother, YesNo
(g) Emplo	byment, currently or in the previous 3 years, as or by any registered lob	obyist of the State government. YesNo

(h) Relationship to a son, or daughter.	nyone who is or was a registered lobbyist in the previous 2 years; spou YesNo	
committee regist	ployment, currently or in the previous 3 years, by any registered electered with the Secretary of State or any county clerk of the State of Illinor registered with either the Secretary of State or the Federal Board of Ele	ois, or any political ections.
last 2 years by ar county clerk of th	nyone; spouse, father, mother, son, or daughter; who was a compensative registered election or re-election committee registered with the Secrete State of Illinois, or any political action committee registered with either	etary of State or any er the Secretary of
		-
	APPLICABLE STATEMENT	
This Disclosure Fo	rm A is submitted on behalf of the INDIVIDUAL named on previous	page.
Completed by:		
	Name of Authorized Representative (type or print)	
Completed by:		
	Title of Authorized Representative (type or print)	
Completed by:		
	Signature of Individual or Authorized Representative	Date
	NOT APPLICABLE STATEMENT	
	that no individuals associated with this organization meet the crite tion of this Form A.	ria that would
This Disclosure Fo	rm A is submitted on behalf of the CONTRACTOR listed on the pre	vious page.
	Name of Authorized Representative (type or print)	
	Title of Authorized Representative (type or print)	
	Signature of Authorized Representative	Date

ILLINOIS DEPARTMENT OF TRANSPORTATION

Form B Other Contracts & Procurement Related Information Disclosure

		Disclosure	
Contractor Name			
Legal Address			
City, State, Zip			
Telephone Number	Email Address	Fax Number (if available)	
CS 500). This information sh	all become part of the publicly availab		
DISCLOSURE O	F OTHER CONTRACTS AND PROC	UREMENT RELATED INFORMA	ATION
pending contracts (including leading leading leading leading section)	eases), bids, proposals, or other ongo No	ng procurement relationship with	
descriptive information such a			
Legal Address City, State, Zip			
	Name of Authorized Representation	ve (type or print)	
	Title of Authorized Representativ	e (type or print)	
	Signature of Authorized Rep	resentative	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. 62859
WILL County
Section G-R-I-4
Route FAP 607
District 1 Construction Funds

DART LIDENTIE	CATION								Distr	ict 1	Cons	tructio	า Fu	nds	1			
PART I. IDENTIFICATION Don't Human Rights #										-4.								
	Duration of Project:																	
Name of Bidder: _																		
PART II. WORKFO A. The undersigned which this contract we projection including a	d bidder ha	as analyz e perform	ed mir ed, an	d for th d fema	ne locati	ons fro	m whic	h the b	idder re	cruits	employe	ees, and he	ereby	subm	its the fol	lowir con	ng workfo	n orce
		TOT	AL Wo	rkforce	Projec	tion for	Contra	ıct						(CURREN			ES .
				MIN	ORITY I	EMPLO	YEES			TR	AINEES	;					RACT	
JOB CATEGORIES		TAL OYEES	BL	ACK	HISP			HER OR.	APPI TIC	REN-	ON T	HE JOB INEES			TAL OYEES		MINO	ORITY OYEES
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OFFICIALS (MANAGERS)																		
SUPERVISORS																		
FOREMEN																		
CLERICAL																		
EQUIPMENT OPERATORS																		
MECHANICS																		
TRUCK DRIVERS																		
IRONWORKERS																		
CARPENTERS																		
CEMENT MASONS																		
ELECTRICIANS PIPEFITTERS,																-		
PLUMBERS																		
PAINTERS LABORERS,																		
SEMI-SKILLED																		
LABORERS, UNSKILLED																		
TOTAL																		
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EMPLOYEES IN	_	TAL OYEES	BL/	ACK	HISP	ANIC		THER NOR.										
TRAINING	М	F	М	F	М	F	М	F	1									
APPRENTICES																		

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

ON THE JOB TRAINEES

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

Note: See instructions on the next page

BC 1256 - Pg 1 (Rev. 3/98) IL 494-0454

Contract No. 62859
WILL County
Section G-R-I-4
Route FAP 607
District 1 Construction Funds

PART II. WORKFORCE PROJECTION - continued

B.		led in "Tot the unders							al nur	mber o	of nev	v hire	es the	at wou	ıld be	e emp	loyed	in the
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	be	indersigne recruited	from	the	area	in w	vhich	the	con	tract	proje	ect	is I	located	d; ;	and/o	· (nu	mber)
						_ new	hires	would	be red	cruited	from	the a	area i	n whic	h the	e bidd	er's pri	ncipal
	office	or base of	operation	on is lo	ocated.													
C.		led in "Tota signed bid															irectly	by the
	The u	ındersigne	d bidder	estim	ates tha	at (num	ber)										perso	ns will
	be dir	ectly employed by su	oyed by	the p	rime co	ntracto	r and	that (r	umbe	er)						pe	rsons v	will be
PART	III. AFF	IRMATIVI	E ACTIC	N PL	AN													
A.	utiliza in any comm (geard utiliza	indersigne tion project job cated nencement ed to the tion are co epartment	tion incl gory, and of work complet orrected.	uded ud in the k, deviction standard	under P ne even velop ar ages o h Affirm	ART II t that th nd subi f the c	is det he un mit a contra	ermine dersig writte ct) wh	ed to be ned be n Affir ereby	e an i idder i mativo defici	under is awa e Acti iencie	utiliza arded on P s in	tion of this lan it mino	of mind contra ncludin rity an	ority point or ity or i	persor e/she speci fema	ns or w will, p fic time le emp	omen rior to etable bloyee
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Instruc	tions:	All tables m	nust includ	e subco	ntractor p	ersonne	l in add	lition to p	orime co	ontracto	r perso	nnel.						
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Table I	3 -	Include all currently er		curren	tly emplo	yed that v	will be a	allocated	d to the	contrac	t work	includi	ng any	/ appren	tices a	and on-	the-job t	rainees
Table (C -	Indicate the	e racial bre	akdowr	n of the to	tal appre	ntices a	and on-t	ne-job t	rainees	shown	in Tab	le A.					

Contract No. 62859
WILL County
Section G-R-I-4
Route FAP 607
District 1 Construction Funds

PROPOSAL SIGNATURE SHEET

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

	Firm Name	
(IF AN INDIVIDUAL)		
	Firm Name	
(IF A CO-PARTNERSHIP)		
,		
		Name and Address of All Members of the Firm:
_		
-		
	Corporate Name	
	ву	Signature of Authorized Representative
		Typed or printed name and title of Authorized Representative
(IF A CORPORATION)		
(IF A JOINT VENTURE, USE THIS SECTION	Attest	Signature
FOR THE MANAGING PARTY AND THE SECOND PARTY SHOULD SIGN BELOW)		Signature
observation of sold sign below,	Ducilious / ludious	
	Corporate Name	
	Ву	
		Signature of Authorized Representative
		Typed or printed name and title of Authorized Representative
(IF A JOINT VENTURE)	Δttest	
	Autost	Signature
	Business Address	
If more than two parties are in the joint venture	e nlease attach an ac	Iditional signature sheet



Division of Highways Proposal Bid Bond

(Effective November 1, 1992)

	Item No.
	Letting Date
KNOW ALL MEN BY THESE PRESENTS, That We	
_	
as PRINCIPAL, and	
Article 102.09 of the "Standard Specifications for Road and Br	as SURETY, are LLINOIS in the penal sum of 5 percent of the total bid price, or for the amount specified in ridge Construction" in effect on the date of invitation for bids, whichever is the lesser sum, well ayment of which we bind ourselves, our heirs, executors, administrators, successors and assigns.
	ON IS SUCH, That Whereas, the PRINCIPAL has submitted a bid proposal to the STATE OF for the improvement designated by the Transportation Bulletin Item Number and Letting Date
the bidding and contract documents, submit a DBE Utilization PRINCIPAL shall enter into a contract in accordance with the coverages and providing such bond as specified with good and labor and material furnished in the prosecution thereof; or if, in into such contract and to give the specified bond, the PRINCIP	bid proposal of the PRINCIPAL; and if the PRINCIPAL shall, within the time and as specified in Plan that is accepted and approved by the Department; and if, after award by the Department, the terms of the bidding and contract documents including evidence of the required insurance sufficient surety for the faithful performance of such contract and for the prompt payment of the event of the failure of the PRINCIPAL to make the required DBE submission or to enter PAL pays to the Department the difference not to exceed the penalty hereof between the amount the Department may contract with another party to perform the work covered by said bid, it shall remain in full force and effect.
paragraph, then Surety shall pay the penal sum to the De	e PRINCIPAL has failed to comply with any requirement as set forth in the preceding epartment within fifteen (15) days of written demand therefor. If Surety does not make may bring an action to collect the amount owed. Surety is liable to the Department for a litigation in which it prevails either in whole or in part.
In TESTIMONY WHEREOF, the said PRINCIP officers this day of	PAL and the said SURETY have caused this instrument to be signed by their respectiveA.D.,
PRINCIPAL	SURETY
(Company Name)	(Company Name)
By:	Ву:
(Signature & Title)	(Signature of Attorney-in-Fact)
No	otary Certification for Principal and Surety
STATE OF ILLINOIS, COUNTY OF	
I,	, a Notary Public in and for said County, do hereby certify that
(Insert names of indiv	riduals signing on behalf of PRINCIPAL & SURETY)
	ersons whose names are subscribed to the foregoing instrument on behalf of in person and acknowledged respectively, that they signed and delivered said d purposes therein set forth.
Given under my hand and notarial seal this	_ day of, A.D
My commission expires	
	Notary Public
	id Form, the Principal may file an Electronic Bid Bond. By signing below the Principal secuted and the Principal and Surety are firmly bound unto the State of Illinois under the
Electronic Bid Bond ID# Company/Bidder Name	Signature and Title

PROPOSAL ENVELOPE



PROPOSALS

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

Item No.	Item No.	Item No.

Submitted By:

Name:	
Address:	
Phone No.	

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

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

NOTICE

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

CONTRACTOR OFFICE COPY OF CONTRACT SPECIFICATIONS

NOTICE

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

Contract No. 62859
WILL County
Section G-R-I-4
Route FAP 607
District 1 Construction Funds



Illinois Department of Transportation

NOTICE TO BIDDERS

- 1. TIME AND PLACE OF OPENING BIDS. Sealed proposals for the improvement described herein will be received by the Department of Transportation at the Harry R. Hanley Building, 2300 South Dirksen Parkway, in Springfield, Illinois until 10:00 o'clock a.m., June 17, 2005. All bids will be gathered, sorted, publicly opened and read in the auditorium at the Department of Transportation's Harry R. Hanley Building shortly after the 10:00 a.m. cut off time.
- **2. DESCRIPTION OF WORK**. The proposed improvement is identified and advertised for bids in the Invitation for Bids as:

Contract No. 62859
WILL County
Section G-R-I-4
Route FAP 607
District 1 Construction Funds

Pinion gear and rock replacement on the structure carrying U.S. Route 30/52 (Cass Street) over the Des Plaines River in Joliet.

- 3. INSTRUCTIONS TO BIDDERS. (a) This Notice, the invitation for bids, proposal and letter of award shall, together with all other documents in accordance with Article 101.09 of the Standard Specifications for Road and Bridge Construction, become part of the contract. Bidders are cautioned to read and examine carefully all documents, to make all required inspections, and to inquire or seek explanation of the same prior to submission of a bid.
 - (b) State law, and, if the work is to be paid wholly or in part with Federal-aid funds, Federal law requires the bidder to make various certifications as a part of the proposal and contract. By execution and submission of the proposal, the bidder makes the certification contained therein. A false or fraudulent certification shall, in addition to all other remedies provided by law, be a breach of contract and may result in termination of the contract.
- 4. AWARD CRITERIA AND REJECTION OF BIDS. This contract will be awarded to the lowest responsive and responsible bidder considering conformity with the terms and conditions established by the Department in the rules, Invitation for Bids and contract documents. The issuance of plans and proposal forms for bidding based upon a prequalification rating shall not be the sole determinant of responsibility. The Department reserves the right to determine responsibility at the time of award, to reject any or all proposals, to readvertise the proposed improvement, and to waive technicalities.

By Order of the Illinois Department of Transportation

Timothy W. Martin, Secretary

BD 351 (Rev. 01/2003)

ROUTE: FAP 607 (US 30 / US 52) SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

INDEX FOR SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS

Adopted March 1, 2005

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

ERRATA Standard Specifications for Road and Bridge Construction (Adopted 1-1-02) (Revised 3-1-05)

SUPPLEMENTAL SPECIFICATIONS

Sta. Sp		<u>ge No.</u>
101	Definition of Terms	1
105	Control of Work	2
205	Embankment	3
251	Mulch	4
281	Riprap	5
282	Filter Fabric for Use With Riprap	8
285	Concrete Revetment Mats	10
311	Granular Subbase	14
351	Aggregate Base Course	15
440	Removal of Existing Pavement and Appurtenances	16
442	Pavement Patching	17
449	Removal and Replacement of Preformed Elastomeric Compression Joint Seal	18
481	Aggregate Shoulders	19
501		20
	Removal of Existing Structures	_
503	Concrete Structures	21
505	Steel Structures	22
506	Cleaning and Painting Metal Structures	25
508	Reinforcement Bars	26
512	Piling	27
540	Box Culverts	28
589	Elastic Joint Sealer	30
602	Catch Basin, Manhole, Inlet, Drainage Structures and Valve Vault	
	Construction, Adjustment and Reconstruction	31
603	Adjusting Frames and Grates of Drainage and Utility Structures	32
610	Shoulder Inlets with Curb	33
665	Woven Wire Fence	34
669	Removal and Disposal of Regulated Substances	35
671	Mobilization	36
702	Work Zone Traffic Control Devices	37
1003	Fine Aggregates	38
1004	Coarse Aggregate	39
1005	Stone, Concrete Blocks and Broken Concrete for Erosion Protection,	00
1000	Sediment Control and Rockfill	42
1006	Metals	46
1007	Timber and Preservative Treatment	49
		50
1012	Hydrated Lime	
1020	Portland Cement Concrete	51
1021	Concrete Admixtures	58
1022	Concrete Curing Materials	59
1024	Nonshrink Grout	61
1041	Brick	63
1043	Precast Reinforced Concrete Manhole Sections and Adjusting Rings	64
1056	Preformed Flexible Gaskets and Mastic Joint Sealer for Sewer and Culvert Pipe	66
1059	Elastic Joint Sealers	67
1060	Waterproofing Materials	68
1069	Pole and Tower	69
1070	Foundation and Breakaway Devices	70
1077	Post and Foundation	72

ROUTE: FAP 607 (US 30 / US 52) SECTION: G-R-I-4

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

1080	Fabric Materials	73
	Materials For Planting	76
	Elastomeric Bearings	77
	Overhead Sign Structures	78
1103	Portland Cement Concrete Equipment	79

ROUTE: FAP 607 (US 30 / US 52) SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

RECURRING SPECIAL PROVISIONS

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

CHE	CK		E NO.
1		State Required Contract Provisions All Federal-aid Construction Contracts (Eff. 2-1-69) (Rev. 10-1-83)	80
2		Subletting of Contracts (Federal-aid Contracts) (Eff. 1-1-88) (Rev. 5-1-93)	
		EEO (Eff. 7-21-78) (Rev. 11-18-80)	83
4	Χ	Specific Equal Employment Opportunity Responsibilities NonFederal-aid Contracts	
		(Eff. 3-20-69) (Rev. 1-1-94)	
5	Χ	Required Provisions - State Contracts (Eff. 4-1-65) (Rev. 4-1-93)	
6		Reserved	105
7		Asphalt Quantities and Cost Reviews (Eff. 7-1-88)	
8		National Pollutant Discharge Elimination System Permit (Eff. 7-1-94) (Rev. 1-1-03)	107
9		Haul Road Stream Crossings, Other Temporary Stream Crossings and In-Stream Work Pads	
		(Eff. 1-2-92) (Rev. 1-1-98)	108
10		Construction Layout Stakes Except for Bridges (Eff. 1-1-99) (Rev. 1-1-02)	
11		Construction Layout Stakes (Eff. 5-1-93) (Rev. 1-1-02)	
12		Use of Geotextile Fabric for Railroad Crossing (Eff. 1-1-95) (Rev. 1-1-97)	
13		Asphaltic Emulsion Slurry Seal and Fibrated Asphaltic Emulsion Slurry Seal (Eff. 8-1-89) (Rev. 2-1-97)	117
14		Bituminous Surface Treatments Half-Smart (Eff. 7-1-93) (Rev. 1-1-97)	123
15		Quality Control/Quality Assurance of Bituminous Concrete Mixtures (Eff. 1-1-00) (Rev. 3-1-05)	129
16		Subsealing of Concrete Pavements (Eff. 11-1-84) (Rev. 2-1-95)	148
17		Bituminous Surface Removal (Cold Milling) (Eff. 11-1-87) (Rev. 10-15-97)	
18		Resurfacing of Milled Surfaces (Eff. 10-1-95)	154
19		PCC Partial Depth Bituminous Patching (Eff. 1-1-98)	155
20		Patching with Bituminous Overlay Removal (Eff. 10-1-95) (Rev. 7-1-99)	
21		Reserved	
22		Protective Shield System (Eff. 4-1-95) (Rev. 1-1-03)	160
23		Polymer Concrete (Eff. 8-1-95) (Rev. 3-1-05)	162
24		Controlled Low-Strength Material (CLSM) (Eff. 1-1-90) (Rev. 3-1-05)	164
25		Pipe Underdrains (Eff. 9-9-87) (Rev. 1-1-98)	169
26		Guardrail and Barrier Wall Delineation (Eff. 12-15-93) (Rev. 1-1-97)	170
27		Bicycle Racks (Eff. 4-1-94) (Rev. 1-1-97)	
28		Reserved	
29		Reserved	
30		Reserved	
31		Night Time Inspection of Roadway Lighting (Eff. 5-1-96)	
32		Reserved	
33		English Substitution of Metric Bolts (Eff. 7-1-96)	
34		English Substitution of Metric Reinforcement Bars (Eff. 4-1-96) (Rev. 1-1-03)	183
35		Polymer Modified Emulsified Asphalt (Eff. 5-15-89) (Rev. 1-1-04)	. 185
36		Corrosion Inhibitor (Eff. 3-1-80) (Rev. 7-1-99)	
37		Quality Control of Concrete Mixtures at the Plant-Single A (Eff. 8-1-00) (Rev. 1-1-04)	
38		Quality Control of Concrete Mixtures at the Plant-Double A (Eff. 8-1-00) (Rev. 1-1-04)	
39		Traffic Barrier Terminal Type 1, Special (Eff. 8-1-94) (Rev. 1-1-03)	
40 41		Reserved	
41		Segregation Control of Bituminous Concrete (Eff. 7-15-97)	
42		Reserved	
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COUNTY: WILL CONTRACT NO. 62859

TABLE OF CONTENTS

LOCATION OF IMPROVEMENT	1
DESCRIPTION OF IMPROVEMENT	1
MAINTENANCE OF ROADWAYS	1
TRAFFIC CONTROL PLAN	2
TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	2
TEMPORARY INFORMATION SIGNING FOR LANE CLOSURES	3
CLEANING AND PAINTING CONTACT SURFACE AREAS OF EXISTING STEEL STRUCTURES	5
MECHANICAL WORK	10
CONSTRUCTION DETAILS	34
CLEANING AND PAINTING NEW METAL STRUCTURES	38
DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION (BDE)	45
FLAGGER VESTS (BDE)	
PARTIAL PAYMENTS (BDE)	53
PAYMENTS TO SUBCONTRACTORS (BDE)	54
PERSONAL PROTECTIVE EQUIPMENT (BDE)	
TRAFFIC CONTROL DEFICIENCY DEDUCTION (BDE)	55
WORK ZONE TRAFFIC CONTROL DEVICES (BDE)	
WORKING DAYS (BDE)	57
SUBCONTRACTOR MOBILIZATION PAYMENTS (BDE)	57
STEEL COST ADJUSTMENT (BDE)	58

ROUTE: FAP 607 (US 30 / US 52)

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

STATE OF ILLINOIS

SPECIAL PROVISIONS

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction," adopted January 1, 2002, the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways," and the "Manual of Test Procedures for Materials" in effect on the date of invitation for bids, and the Supplemental Specifications and Recurring Special Provisions indicated on the Check Sheet included herein which apply to and govern the construction of FAP Route 607 (U.S. 30/U.S. 52); SECTION G-R-I-4; COUNTY: WILL; CONTRACT: 62859; and in case of conflict with any part or parts of said Specifications, the said Special Provisions shall take precedence and shall govern.

ROUTE: US 30 / US 52 (FAP 607) SECTION G-R-I-4 COUNTY: WILL CONTRACT NO.: 62859

LOCATION OF IMPROVEMENT

This improvement is located on the bascule bridge carrying US 30/ US 52 (Cass Street) westbound over the Des Plaines River within the City of Joliet in Will County.

DESCRIPTION OF IMPROVEMENT

This improvement consists of pinion and rack replacement and all incidental or collateral work necessary to complete the improvement as shown on the plans and as described here in.

MAINTENANCE OF ROADWAYS

Effective: September 30, 1985 Revised: November 1, 1996

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

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

ROUTE: FAP 607 (US 30 / US 52)

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

TRAFFIC CONTROL PLAN

Effective: September 30, 1985 Revised: October 1, 1995

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

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

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

STANDARDS: 701301 & 702001

DETAILS: Detour Plan Detail

SPECIAL PROVISIONS: Traffic Control and Protection for Temporary Detour

Temporary Information Signing for Lane Closures

Traffic Control Deficiency Deduction Work Zone Traffic Control Devices

Flagger Vests

Personal Protective Equipment

TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR

Effective: September 1, 1995 Revised: January 1, 1997

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

Furnishing, erecting, maintaining and removing traffic control devices along detour routes, in accordance with the details shown in the plans, will be paid for at the contract unit price each for TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR.

ROUTE: FAP 607 (US 30 / US 52)

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

TEMPORARY INFORMATION SIGNING FOR LANE CLOSURES

Effective: Nov. 5, 2001 Revised: April 16, 2004

<u>Description.</u> This work shall consist of furnishing, installing, maintaining, relocating for various states of construction and eventually removing temporary informational signs. This also includes the Advanced Warning Sign for use on arterial roads as described herein. These signs may be ground mounted, mounted on temporary stands, truss mounted, bridge mounted or overlaid sign panels which cover portions of existing signs.

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

	<u>ltem</u>	Article/Section	
(a)	Sign Base (Notes 1 & 2)	1090	
(b)	Sign Face (Note 3)	1091	
(c)	Sign Legends	1092	
(d)	Sign Supports	1093	
(e)	Overlay Panels (Note 4)	1090.02	
Note 1.	The Contractor may use 16mm (5/8 inch) instead thick plywood.	of 19mm (3/4 inch)	
Note 2.	Type A sheeting can be used on the plywood base.		
Note 3.	All sign faces shall be Type A except all orange signs shall meet the requirements of Article 1084.02(b).		
Note 4.	The overlay panels shall be 2mm (0.08 inch) thick.		

GENERAL CONSTRUCTION REQUIREMENTS

<u>Installation</u>. The sign sizes and legend sizes shall be verified by the Contractor prior to fabrication.

Signs which are placed along the roadway and/or within the construction zone shall be installed according to the requirements of Article 702.05 and Article 720.04. The signs shall be 2.1m (7 ft.) above the near edge of the pavement and shall be a minimum of 600mm (2 ft.) beyond the edge of pavement. A minimum of three (3) posts shall be used.

The attachment of temporary signs to existing sign structures or sign panels shall be approved by the Engineer. Any damage to the existing signs due to the Contractor's operations shall be repaired or signs replaced, as determined by the Engineer, at the Contractor's expense.

Signs which are placed on overhead bridge structures shall be fastened to the handrail with stainless steel bands. These signs shall rest on the concrete parapet where possible. The Contractor shall furnish mounting details for approval by the Engineer.

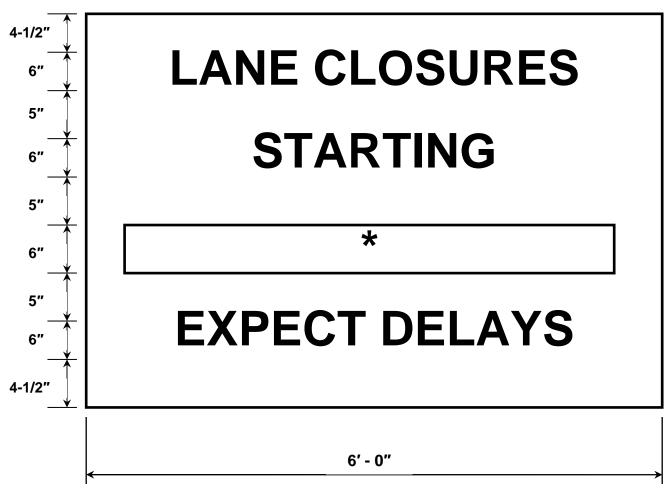
<u>Method Of Measurement</u>: This work shall be measured for payment in square meters (square feet) edge to edge (horizontally and vertically).

All hardware, posts, supports, bases for ground mounted signs, connections, which are required for mounting these signs will be included as part of this pay item.

ROUTE: FAP 607 (US 30 / US 52) SECTION: G-R-I-4

COUNTY: WILL CONTRACT NO. 62859

<u>Basis Of Payment.</u> This work shall be paid for at the contract unit price per square meter (square foot) for TEMPORARY INFORMATION SIGNING FOR LANE CLOSURES, which price shall be full compensation for all labor, equipment and materials required for performing the work as herein specified.



^{*}CONTRACTOR SHALL PROVIDE DATE FOR START OF LANE CLOSURE AND SHALL ERECT SIGNS A MINIMUM OF ONE (1) WEEK IN ADVANCE OF THE START OF THE WORK.

(CONTRACTOR MAY PROVIDE OVERLAY SIGN PANEL FOR DATE.)

ADVANCED WARNING SIGN DETAIL FOR ARTERIAL TRAFFIC

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

CLEANING AND PAINTING CONTACT SURFACE AREAS OF EXISTING STEEL STRUCTURES

Effective: June 30, 2003 Revised: February 7, 2005

<u>Description.</u> This work shall consist of the surface preparation and painting of existing steel structures in areas that will be in contact with new steel.

The existing steel at primary connections (faying surfaces) shall be prepared, and primed as specified herein prior to connecting new structural steel to the existing structure.

The existing steel at secondary connections shall be prepared, and if bare metal is exposed, primed as specified herein prior to connecting new structural steel to the existing structure.

<u>General.</u> The existing coatings shall be assumed to contain lead and may also contain other toxic metals. Any plans that may be furnished for the work, and any dimensions or other information given regarding a structure, are only for the purpose of assisting bidders in determining the type and location of steel to be cleaned and painted. It is the responsibility of the Contractor to verify this information and the accuracy of the information provided shall in no way affect the price bid for structural steel.

<u>Materials.</u> The Bureau of Materials and Physical Research has established a list of all products that have met preliminary requirements. Each batch of material must be tested and approved before use.

The paint materials shall meet the requirements of the following articles of the Standard Specification:

<u>Item</u> <u>Article</u>

a) Organic Zinc Rich Primer (Note 1)

b) Aluminum Epoxy Mastic 1008.25

Note 1:These material requirements shall be according to the Special Provision for the Organic Zinc-Rich Paint System.

Submittals:

- a) Manufacturer's application instructions and product data sheets. Copies of the paint manufacturer's application instructions and product data sheets shall be furnished to the Engineer at the field site before steel cleaning begins.
- b) Waste Management Plan. The Waste Management Plan shall address all aspects of waste handling, storage, testing, hauling and disposal. Include the names, addresses, and a contact person for the proposed licensed waste haulers and disposal facilities. Submit the name and qualifications of the laboratory proposed for Toxicity Characteristic Leaching Procedure (TCLP) analysis.

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

c) Quality Control (QC) Program. The QC Program shall identify the following; the instrumentation that will be used, a schedule of required measurements and observations, procedures for correcting unacceptable work, and procedures for improving surface preparation and painting quality as a result of quality control findings.

Construction Requirements. The Contractor shall perform first line, in process QC inspections. The Contractor shall implement the submitted and accepted QC Program to insure that the work accomplished complies with these specifications. The designated Quality Control inspector shall be onsite full time during any operations that affect the quality of the coating system (e.g., surface preparation, coating mixing and application, and evaluations between coats and upon completion of the work). The Contractor shall provide artificial lighting in areas where natural light is inadequate, as determined by the Engineer, to allow proper cleaning, inspection, and painting. Illumination for inspection shall be at least 325 LUX (30 foot candles). Illumination for cleaning and priming, including the working platforms, access, and entryways shall be at least 215 LUX (20 foot candles).

The Contractor shall be responsible for any damage caused to persons, vehicles, or property, except as indemnified by the Response Action Contractor Indemnification Act. Whenever the intended purposes of the protective devices are not being accomplished, as determined by the Engineer, work shall be immediately suspended until corrections are made. Painted surfaces damaged by any Contractor's operation shall be removed and repainted, as directed by the Engineer, at the Contractor's expense.

<u>Weather Conditions.</u> Surfaces to be primed after cleaning shall remain free of moisture and other contaminants. The Contractor shall control his/her operations to insure that dust, dirt, or moisture does not come in contact with surfaces cleaned prior to painting. Surfaces painted shall be protected until the coating is sufficiently cured to protect itself from damage.

Restrictions on ambient conditions shall be as per the coating manufacturer's written specifications.

<u>Surface Preparation:</u> Prior to making connections or painting, all loose abrasives, paint, and residue shall be contained, collected, removed from the surface area and properly disposed of as specified later in this specification.

Painted surfaces of new steel damaged by abrasive blasting or by the Contractor's operations shall be repainted, as directed by the Engineer, at the Contractor's expense.

a) Primary Connections. Primary connections shall be defined as faying (contact) surfaces of high-strength bolted splices in main, load-carrying members, end diaphragms, end crossframes, and other areas specifically noted in plans (such as cross-frame connections on curved girders, etc.). These will typically occur where existing splices are replaced or new splices are added.

The surfaces of existing steel in all areas that will be in direct contact with new steel shall be prepared according to SSPC-SP15, Commercial Grade Power Tool Cleaning using vacuum-shrouded power tools equipped with HEPA filtration. The surface preparation shall remove all rust, mill scale, and existing paint from the contact surface. At the Contractors option, vacuum blast cleaning according to SSPC-SP6, Commercial Blast Cleaning may be substituted for SSPC-SP15 at no additional cost to the Department. The surface profile for primary connection surfaces shall be 38 to 90 microns (1.5 to 3.5 mils).

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

b) **Secondary Connections.** Secondary connections shall be defined as all surface areas of existing members that will be in contact with new steel except as previously defined as primary connections.

These surfaces of existing steel in all areas that will be in direct contact with new steel shall be prepared according to SSPC-SP3, Power Tool Cleaning using vacuum-shrouded power tools equipped with HEPA filtration. The surface preparation shall remove all loose rust, loose mill scale, and loose, checked, alligatored and peeling paint from the contact surface. At the Contractors option, vacuum blast cleaning according to SSPC-SP6, Commercial Blast Cleaning or SSPC-SP15, Commercial Grade Power Tool Cleaning may be substituted for SSPC-SP3 at no additional cost to the Department. The surface profile for abrasive blast cleaning and Commercial Grade Power Tool Cleaning shall be 38 to 90 microns (1.5 to 3.5 mils).

<u>Painting.</u> The manufacturer's written instructions shall be followed for paint storage, mixing, thinning, application, ambient conditions, and drying times between coats. The surface shall be free of dirt, dust, and debris prior to the application of any coat. The coatings shall be applied as a continuous film of uniform thickness free of defects including, but not limited to, runs, sags, overspray, dryspray, pinholes, voids, skips, misses, and shadow-through. Defects such as runs and sags shall be brushed out immediately during application.

The Engineer will approve surface preparation prior to priming.

- a) For Primary connections the surface of the prepared steel cleaned to bare metal shall be primed with an organic zinc rich primer between 90 and 125 microns (3.5 and 5.0 mils) dry film thickness.
- b) For Secondary Connections the surface of the prepared steel cleaned to bare metal shall be painted with one coat of epoxy mastic between 125 microns to 180 microns (5 to 7 mils) in thickness. Areas not cleaned to bare metal need not be painted.

The primer shall cure according to the manufacturers instructions prior to connecting new structural steel to the existing structure.

The surrounding coating at each prepared location shall be feathered for a minimum distance of 40 mm (1½ in.) to achieve a smooth transition between the prepared areas and the existing coating.

<u>Collection, Temporary Storage, Transportation and Disposal of Waste.</u> The Contractor and the Department are considered to be co-generators of the waste.

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

The Contractor is responsible for all aspects of waste collection, testing and identification, handling, storage, transportation, and disposal according to these specifications and all applicable Federal, State, and Local regulations. The Contractor shall provide for Engineer review and acceptance a Waste Management Plan that addresses all aspects of waste handling, storage, and testing, and provides the names, addresses, and a contact person for the proposed licensed waste haulers and disposal facilities. The Department will not perform any functions relating to the waste other than provide EPA identification numbers, provide the Contractor with the emergency response information, the emergency response telephone number required to be provided on the manifest, and to sign the waste manifest. The Engineer will obtain the identification numbers from the state and federal environmental protection agencies for the bridge(s) to be painted and furnish those to the Contractor.

All surface preparation/paint residues shall be collected daily and deposited in all-weather containers supplied by the Contractor as temporary storage. The storage area shall be secure to prevent unauthorized entry or tampering with the containers. Acceptable measures include storage within a fully enclosed (e.g., fenced in) and locked area, within a temporary building, or implementing other reasonable means to reduce the possibility of vandalism or exposure of the waste to the public or the environment (e.g., securing the lids or covers of waste containers and roll-off boxes). Waste shall not be stored outside of the containers. Waste shall be collected and transferred to bulk containers taking extra precautions as necessary to prevent the suspension of residues in air or contamination of surrounding surfaces. Precautions may include the transfer of the material within a tarpaulin enclosure. Transfer into roll-off boxes shall be planned to minimize the need for workers to enter the roll-off box.

No residues shall remain on uncontained surfaces overnight. Waste materials shall not be removed through floor drains or by throwing them over the side of the bridge. Flammable materials shall not be stored around or under any bridge structures.

The all-weather containers shall meet the requirements for the transportation of hazardous materials and as approved by the Department. Acceptable containers include covered roll-off boxes and 55-gallon drums (17H). The Contractor shall insure that no breaks and no deterioration of these containers occurs and shall maintain a written log of weekly inspections of the condition of the containers. A copy of the log shall be furnished to the Engineer upon request. The containers shall be kept closed and sealed from moisture except during the addition of waste. Each container shall be permanently identified with the date that waste was placed into the container, contract number, hazardous waste name and ID number, and other information required by the IEPA.

The Contractor shall have each waste stream sampled for each project and tested by TCLP and according to EPA and disposal company requirements. The Engineer shall be notified in advance when the samples will be collected. The samples shall be collected and shipped for testing within the first week of the project, with the results due back to the Engineer within 10 days. The costs of testing shall be considered included in this work. Copies of the test results shall be provided to the Engineer prior to shipping the waste.

The existing paint removed, together with the surface preparation media (e.g. abrasive) shall be handled as a hazardous waste, regardless of the TCLP results. The waste shall be transported by a licensed hazardous waste transporter, treated by an IEPA permitted treatment facility to a non-hazardous special waste and disposed of at an IEPA permitted disposal facility in Illinois.

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

The treatment/disposal facilities shall be approved by the Engineer, and shall hold an IEPA permit for waste disposal and waste stream authorization for this cleaning residue. The IEPA permit and waste stream authorization must be obtained prior to beginning cleaning, except that if necessary, limited paint removal will be permitted in order to obtain samples of the waste for the disposal facilities. The waste shall be shipped to the facility within 90 days of the first accumulation of the waste in the containers. When permitted by the Engineer, waste from multiple bridges in the same contract may be transported by the Contractor to a central waste storage location(s) approved by the Engineer in order to consolidate the material for pick up, and to minimize the storage of waste containers at multiple remote sites after demobilization. Arrangements for the final waste pickup shall be made with the waste hauler by the time blast cleaning operations are completed or as required to meet the 90 day limit stated above.

The Contractor shall submit a waste accumulation inventory table to the Engineer no later than the 5th day of the month. The table shall show the number and size of waste containers filled each day in the preceding month and the amount of waste shipped that month, including the dates of shipments.

The Contractor shall prepare a manifest supplied by the IEPA for off-site treatment and disposal before transporting the hazardous waste off-site. The Contractor shall prepare a land ban notification for the waste to be furnished to the disposal facility. The Contractor shall obtain the handwritten signature of the initial transporter and date of the acceptance of the manifest. The Contractor shall send one copy of the manifest to the IEPA within two working days of transporting the waste off-site. The Contractor shall furnish the generator copy of the manifest and a copy of the land ban notification to the Engineer. The Contractor shall give the transporter the remaining copies of the manifest.

All other project waste shall be removed from the site according to Federal, State and Local regulations, with all waste removed from the site prior to final Contractor demobilization.

The Contractor shall make arrangements to have other hazardous waste, which he/she generates, such as used paint solvent, transported to the Contractor's facility at the end of each day that this waste is generated. These hazardous wastes shall be manifested using the Contractor's own generator number to a treatment or disposal facility from the Contractor's facility. The Contractor shall not combine solvents or other wastes with cleaning residue wastes. All waste streams shall be stored in separate containers.

The Contractor is responsible for the payment of any fines and undertaking any clean up activities mandated by State or federal environmental agencies for improper waste handling, storage, transportation, or disposal.

Contractor personnel shall be trained in the proper handling of hazardous waste, and the necessary notification and clean up requirements in the event of a spill. The Contractor shall maintain a copy of the personnel training records at each bridge site.

It is understood and agreed that the cost of all work outlined above, unless otherwise specified, has been included in the bid, and no extra compensation will be allowed.

<u>Basis of Payment:</u> This work will be considered included in the cost of "Furnishing and Erecting Structural Steel", "Erecting Structural Steel", or "Structural Steel Repair", as applicable, according to the Standard Specifications, unless otherwise specified on the plans.

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

MECHANICAL WORK

Effective: February 6, 2001 Revised: April 14, 2005

Description:

This work shall consist of furnishing all labor, materials and equipment necessary for the removal and replacement of the components for the northeast rack and pinion, as indicated on the plans. Included in this work shall be the furnishing and installation of the racks, pinion, pinion shaft, keys, bushings housings, fasteners, chocks and miscellaneous items necessary to perform the work as indicated on the plans.

All parts furnished by the Contractor shall be new, and shall be as shown on the plans or an approved equal. In cases where a substitution is proposed, it will be the responsibility of the Contractor to prove equality of the substitution with these contract plans. The Contractor will also provide, at no additional cost, whatever engineering analysis, and design modifications as may be necessitated by his proposed substitution.

The Engineer shall consider value engineering alternatives to plan designs submitted by the Contractor, including alignment, positioning of shafting and bearings, premachining bore holes in column plates and pinion shaft end plates, positioning by tack welding, and other assembly techniques; however, all alternatives are subject to Engineer approval.

INTENT:

The Northeast pinion is misaligned with the Northeast rack axially, and radially. Radial misalignment is the primary cause of the damage to the rack and pinion teeth. Radial misalignment will be corrected by boring for the main pinion shaft bearings at the center of rotation of the bascule span and adjusting the elevation of the rack with tapered and flat shims placed under the individual rack sections. The pinion will be adjusted axially by installing thrust collars and washers on the pinion shaft. The "bascule span center of rotation" is defined as the line through the main pinion shafts located at the center of the theoretical tread radii.

The existing Northeast pinion and the four existing Northeast rack sections are being replaced since they have visible signs of severe tooth damage. The existing Northeast main pinion bearing housing may no longer have a driving fit with the existing structural plates. In addition, the existing hole in the structural plates for the main pinion bearing housing may not be round. Some of the structural plates shall be replaced. The hole in the new and existing structural plates must be line bored to ensure the hole is round. A new main pinion bearing housing must be made to have an FN1 fit with the newly bored hole through the new and existing structural plates. Both bronze bushings that support the pinion shaft may have been damaged by the misalignment and warrant replacement. Replacement of the Northeast pinion shaft is required because damage is suspected. Since the position of the pinion shaft may change, the alignment of the northeast open gearing, bearings and shafting, and machinery brake may need to be adjusted.

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

General Requirements

Α.	Construction	Requirements
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- 1. The Contractor shall take all necessary safety measures to protect the public and the waterways from any falling debris, materials, tools or equipment during all field operations, as approved by the Engineer including but not limited to safety netting, protective shields, special work platforms, temporary lighting and the like.
- 2. The Contractor shall submit to the Engineer for approval the procedures, equipment, and methods to be used for this work. The procedures and methods shall be approved before the work begins.
- 3. Removal and disposal of all designated existing structural components, regardless of type and material, shall conform to applicable provisions of the Standard Specifications, and Engineer's direction.
- 4. The removed rack sections, pinion, and shaft are to be salvaged and delivered to the Illinois Department of Transportation. The remainder of removed items become the property of the Contractor, unless specified elsewhere in the Contract Documents or the Contract Drawings.
- 5. All work, including but not limited to fabrication, storage, inspection, transportation, erection and connections shall be in accordance with the provisions of the Standard Specifications, and Engineer's directions.
- 6. The Contractor shall verify all dimensions in the field prior to ordering and fabrication in order to ensure proper installation.
 - 7. Shop drawings for all replacement items shall be prepared, approved and distributed in accordance with the provisions of the Standard Specifications. The shop drawing submission shall include the name of the fabricator and the fabricator's technical specifications. Shop drawings shall indicate confirmation of Field Dimensions.
 - 8. No material or equipment shall be ordered or fabricated prior to the approval by the Engineer of shop drawings, fabrication procedures and specifications.
- 9. In the event any new or existing materials are damaged during this work, due to Contractor's operations, the Contractor shall repair or replace the damaged new or existing materials in a manner satisfactory to the Engineer, at no additional cost to IDOT.

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

B. Machinery Scope

- 1. The machinery is comprised of but not limited to the following major elements:
 - a. Pinion Shaft (1)
 - b. Pinion (1)
 - c. 16 tooth rack section (2)
 - d. 15 tooth rack section (2)
 - e. Cast steel main pinion bearing housing and bronze bushing OR One piece main pinion bearing bronze centrifugal casting (1)
 - f. Bronze bushing for smaller diameter end of pinion shaft (1)
 - g. New fasteners, flange angles, and structural plates for the small end pinion shaft bearing connection
 - h. New structural plates for the large end pinion shaft bearing connection and fasteners
 - i. A split collar and thrust washers for the small end of the pinion shaft

2. The following shall also be included in the work:

- a. Any apparatus, appliance, material, labor or service either shown on the plans or noted in the Specifications.
- b. Any incidental apparatus, appliance, material, labor, service of a minor nature, necessary to make the work complete in all respects, and ready for operation, even if not particularly shown on the plans or specified.
- c. Small details not shown on the plans or specified, but which are necessary for the proper and complete installation and operation of the work.
- d. Detailed field measurements of the elevations and relative positions of the existing pinions, racks, treads and tracks. A reference line shall be established through the centers of the pinions and the alignment of the pinion shafts to the reference line and of the reference line to the structure shall be established with a resolution of 1/64". The Contractor may use separate plates or pedestals adjacent to the existing rack supports to establish such reference lines, and the Contractor is permitted to make them permanent parts of the bridge.
- e. The pinion shaft small end bearing shall be removed from the bridge, transported to a machine shop where a new bushing shown on the plans shall be installed in the housing. The bearing shall be reinstalled on the bridge after boring and facing the new structural plates for the bearing.
- f. A collar for preventing axial movement of the pinion shaft shall be designed, fabricated and installed on the inboard end of the pinion shaft. Thrust washers shall be furnished and installed on the pinion shaft at the inboard side of the small end bearing to adjust the axial position of the shaft.

COUNTY: WILL CONTRACT NO. 62859

g. Replace structural plates at the northeast pinion shaft large end bearing. This shall include replacing the outermost and innermost 3/8" plates with 1" plates, the inner 3/8" fill plate in kind, and the outer 1/2" fill plate in kind.

- h. The contractor shall furnish and install a ½" ASTM A709 Grade 36 plate to replace the deformed mounting plate and (2) 5/8" ASTM A709 Grade 36 plates to replace existing in kind for the pinion shaft small end bearing (ASTM A709 Grade 50 can be utilized where Grade 36 is specified). The plates shall be retained by at least eight 7/8" diameter ASTM A325 high strength fasteners independent of the bolts through the bearing housing. The Contractor shall furnish and install as needed a ½" shim pack for alignment of the new ½" plate.
- i. Line bore new plates for northeast main pinion shaft bearing insertion, large and small ends, at the center of the east leaf bascule rotation. The bore holes may be rough machined to near diameter by the fabricator before installation and final line boring. The same operation shall include spot facing the interface between the new structural plates and bearing housing flanges (back facing as shown on the plans shall also be performed during this operation for washer and nut seats). Line boring and line facing of the structural steel plates shall correct the pinion misalignment and provide an FN-1 shrink fit with the bearing housings. The new plates shall be pre-machined to near final diameter to minimize material removal in the field.
- j. Realign the rest of the northeast machinery according to the Engineer. Maximum misalignment at the reducer output shaft gear coupling is 0.070" parallel and 3/4 degree angular. Misalignments greater than these values will de-rate the coupling. The Contractor shall provide shims, if necessary, to facilitate realignment of the machinery to provide proper alignment and even bearing.
- 3. All items shall be paid for under the Lump Sum work item.

C. Procedure:

- 1. The Contractor shall measure the difference in relative elevation and forward displacement between the northeast and southeast pinion through the pinion bores. The contractor shall measure the axial position of all bearings, and gears mounted on and mating with the gears mounted on the pinion shaft. The Contractor shall submit his proposed method of measurement and plan of measurements to be obtained prior to performing the measurements. The Contractor may obtain these measurements by optical, laser, or mechanical methods, or any combination of these methods, and submit the results to the Engineer.
- 2. Prepare and submit all shop drawings and other required submittals, obtain acceptance of the Engineer for all submittals.
- 3. Fabricate components except for final machining.

COUNTY: WILL CONTRACT NO. 62859

4. Close bridge to highway and pedestrian traffic.

- 5. Place rolling lift spans in the fully raised position and chock the east leaf. The chocking devices shall consist of oak, laminated with steel plates, which are both bolted and glued together with epoxy adhesives. The chocks shall have the same ramp radius as those of the tread plates.
- 6. Unseat large diameter gear from pinion shaft. The bore of the large diameter gear may need to be refinished so that it seats properly on the new pinion shaft.
- 7. Remove and retain pinion and pinion shaft.
- 8. Modify new pinion shaft diameter in appropriate section to provide a 0.005" to 0.006" interference shrink fit with the existing gear bore.
- 9. Locate position of keyway slots on new pinion shaft to match keyway slot positions on existing gear.
- 10. Install new pinion on new pinion shaft in shop.
- 11. Remove and retain existing main pinion bearing housing/bushing assembly from post. Remove and retain bearing housing/bushing assembly that supports the smaller diameter end of the pinion shaft. The existing structural plates and angles to be replaced shall be removed. The new angles and structural plates at the small end of the pinion shaft shall be installed. Transfer mark all bolt hole centers to one of two new 1" plates for the large end bearing location. Remove marked 1" plate and drill undersized holes on marks. Clamp and tack weld all new plates to the existing gusset and web plates and final drill, ream, and countersink as shown on the contract plans, using the pre-drilled 1" plate as a template, for bolts shown on the contract plans. After installation of the bolts, the tack weld used to temporarily hold the new plates shall be ground out.
- 12. Rough bore either at fabricator's shop or on site and line bore to final dimension all new structural plates on center of bascule span rotation. The "bascule span center of rotation" is defined as the line through the main pinion shafts located at the center of the theoretical tread radii. Because the tread plates are not perfect circles, the elevation of the pinion centers to the rack pitch lines or top lands shall be equal on both sides of the east leaf, and perpendicular to the long axes of the racks. Line bore to final dimension after the center of rotation is firmly defined. The line bore center shall be theoretically within 0.030" of the bascule leaf center of rotation. The line bore center elevation shall be within 0.005" of the theoretical vertical distance to the pitch line or top land of the first (river side) segment of the rack assembly. The alignment between the small and large end line bores shall be within parallel offset of 0.010".
- 13. As part of Article AA.1.b, the Contractor shall clearly present his method for establishing the bascule span center of rotation and how to achieve the required accuracy for line boring. This method shall be submitted to the Engineer for approval. The following is a brief suggested procedure:

COUNTY: WILL CONTRACT NO. 62859

a. A fixed reference shall be established on a parallel reference platform adjacent to the Southeast rack at 0° (bridge in locked position).

- b. Position a laser or other optical instrument to establish a horizontal line (X-axis) through the center line of the Southeast pinion shaft and perpendicular to the Southeast rack long axis (Z-axis).
- c. This horizontal X-axis, which is the center line of the pinion, shall be 8.783" ±0.002" from the top land of the Southeast rack teeth. The Contractor may establish a second reference platform adjacent and parallel to the NE rack for convenience.
- d. This line shall become the center for boring of the new pinion column plate on the NE side at 0° (bridge in locked position).
- e. The Contractor shall fabricate a fixture or jig to verify that the gearset preceding the Northeast rack and pinion has the correct center distance as measured to the established centerline. The measured variation shall be submitted to the Engineer for approval prior to line boring.
- 14. Remove existing bronze bushing from removed small bearing housing. Drill and tap housing for new thrust bushing bolts, and install new bronze bushing.
- 15. Verify existing hole center within 0.005" in structural plates, bore rough new hole concentric with span rotation within 0.030" to provide FN-1 fit with the large and small end bearing housings. Mill the face of new structural plates where the bearing housings contact the structural plates and as shown on the plans. This applies to the new main pinion bearing and to the existing small diameter bearing with the new bushing.
- 16. After boring of new bushing hole, or installation of plates with premachined rough bores, verify the new hole diameters in the existing structural plates, final finish the outside diameter of the new large end bearing housing. Reverify dimensions, then insert the new large and small end bearings for FN1 fits with their respective structural plates. This is accomplished by cooling the new main pinion bearing housing or solid bronze housing and bearing in subfreezing media for insertion into the plate bores. Drill and ream for bearing housing flange mounting bolts. Install bearing housing flange mounting bolts, main pinion, shaft and gear.
- 17. Use temporary bolts to pull bearing housings into place during shrink fit. If the steel housing is used, it is recommended that the housing be cooled at least 70°F below ambient. This temperature difference could be achieved using dry ice. The one piece bronze bearing should be cooled to at least 43°F below ambient, which can be achieved using methyl alcohol with cubes of dry ice.
- 18. For fit up of the bearing housing or one piece bronze bearing to the structural plates, use 1 1/8" and 7/8" ASTM A325 bolts respectively for the large and small end housings with hardened washers to force the bearing against the structural plates. Tighten bolts to 200 ft-lbs and then relax to permit expansion. When the bearing, structural plates and bolts reach ambient, tighten the bolts to 300 ft-lbs. Drill and ream for final 1 ¼" turned bolts one at a time.

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

19. Remove and retain all four rack sections.

- 20. Install four new rack sections with 1/16" to 1/8" undersized ASTM A325 temporary bolts.
- 21. Install new pinion shaft with new pinion attached.
- 22. Fit existing large diameter gear onto pinion shaft.
- 23. Axially align pinion with new rack sections.
- 24. Align rack segments. A round, ground 2 ½" dia extension bar with 3" of 4 ½ UNC threads shall be screwed into the pinion shaft to determine the approximate center, within ± 0.005", of the rack's Z-axis. This line will determine how the individual rack elements shall be adjusted by shimming them to best match with the pinion's pitch line with respect to a level reference plate. Total backlash between the rack and pinion shall be between 0.050" and 0.070". Adjust rack as directed by the Engineer.
- 25. Align remaining northeast machinery including open gearing, associated shafting and bearings, and brake as necessary.
 - a. The contractor shall submit a detailed alignment procedure for the existing machinery affected by the new rack and pinion location for the Engineer's approval. This procedure shall include the magnitude of the proposed realignment for each component. All affected gearsets shall be realigned such that the realigned total backlash is within 0.005" of existing, the realigned tip-to-root clearance is within 0.005" of existing, and the required face contact percentage is no less than 5% below existing.
 - b. As realignment takes place, shaft bearings shall be shifted to accommodate RC6 fits with their journals' full length. New mounting turned bolts shall be provided at a diameter approved by the Engineer to fit existing holes, which will be reamed to provide an LC6 fit.
 - c. The northeast machinery brake and pads shall also be realigned with its brake wheel. Turned mounting bolts shall be provided at a diameter approved by the Engineer to fit existing holes, which will be reamed to provide an LC6 fit.
- 26. Test operate the bascule leaf through the full normal operating angle using 1/16" to 1/8" undersized temporary rack bolts and hardened washers as per ASTM F436. Make necessary adjustments to the rack location and repeat test operation until approved by the Engineer. Drill and ream for final turned mounting bolts. Measure temporary shims and submit to Engineer for approval. Fabricate and install permanent full bearing tapered shims.
- 27. Deliver all retained bridge components to the location specified by IDOT.

COUNTY: WILL CONTRACT NO. 62859

MATERIALS

A. General

- 1. All materials shall be as called out on the Contract Drawings and as indicated in the Specifications.
- 2. The current issue of all material specifications and standards shall be those in effect on the date of the bid for this project.
- 3. All materials furnished for machinery work shall be new except as noted, clean, and free of defects.
- 4. Material on the Contract Drawings not covered by Material Specifications shall be commercially available material acceptable to the Engineer.

B. Existing Shop Drawings

1. The Shop Drawings are available at the Illinois Department of Transportation Field Office at 105 Bridge St., in Joliet, Illinois. The Contractor shall familiarize himself with the Record Shop Drawings prior to submitting his shop drawings.

C. Codes and Standards

- 1. Work under this pay item shall comply with, but not be limited to, all applicable requirements of the following codes and standards; their abbreviations used in this Specification are as shown:
 - Association of State American Highway and Transportation a. Officials, Standard Specifications for Movable BridgesAASHTO American Gear Manufacturers AssociationAGMA b. American Iron and Steel Institute......AISI C. d. American Society for Testing and MaterialsASTM e. f. Steel Structures Painting CouncilSSPC Illinois Department of Transportation......IDOT g.
- 2. The work shall meet the requirements of all other codes and standards as specified elsewhere and in these Specifications. Where codes and standards are mentioned for any pay item, the intent is to call particular attention to them; it is not intended that any other applicable codes and standards shall be assumed to be omitted if not mentioned.
- 3. Particular attention is directed to Division IV, Part 4.1.10 of the AASHTO Standard, which requires tests of the span operating machinery. All such tests shall be performed by the Contractor, in addition to other testing requirements specified herein.

COUNTY: WILL CONTRACT NO. 62859

D. Rules, Regulations and Ordinances

 Work shall comply with all applicable Federal, State and Local rules, regulations, and ordinances. The Contractor shall include in the cost of this item all work necessary to obtain permits and approvals of authorities and agencies having jurisdiction, as required.

2. In the event of a conflict between these Specifications and the above mentioned codes, standards, rules, regulations, and ordinances, the most stringent requirement shall apply. All machinery and machined components shall be fabricated, built, machined and constructed in accordance with both AASHTO Standards and general industrial machine practice. If any contention of interpretation of AASHTO Standards arises, the accepted machine practices as described in Machinery's Handbook (26th or later editions) shall prevail. The Engineer shall have final decision making authority in matters regarding engineering contention.

E. Basis of Machinery Design

- 1. The design of new machinery shall conform to the applicable requirements of AASHTO Standard Specifications for Movable Highway Bridges, 1988.
- 2. The design of the operating machinery is based upon the electric motors operating at 600 rpm and a maximum torque not exceeding 150% of rated full load torque.

F. Operating Parameters

 The amount of tooth face contact between the rack and pinion shall be measured using the procedure outlined in Appendix D of AGMA Standard 2000-A88. Tooth contact must occur in 65% of the intended tooth contact area at all bascule operating angles.

G. Measurement and Verification

- 1. Dimensions indicated on the Contract Drawings are nominal and are intended for guidance only. All variations from the nominal dimensions on the Contract Drawings shall be noted on the shop drawings.
- 2. The Contractor shall verify all dimensions of the existing bridge machinery to remain, existing remaining structure and foundation which will relate to the new machinery, and then shall record them on the shop drawings.

H. Shop Assembly

- 1. The Contractor shall remove the bearing housing that supports the small end of the pinion shaft for purposes of shop removal of the old bushing and shop installation of the new bushing.
- 2. Shop assembly shall be made prior to shipment to verify the fit and performance of the various parts. The following assemblies shall be assembled in a shop, tested and shipped as assemblies as described herein:

COUNTY: WILL CONTRACT NO. 62859

a. Pinion on pinion shaft with an FN-2 fit, including gib keys and set screw

- b. If used, the new bronze bushing in the new cast steel housing with an FN-2 fit and countersunk bolts
- c. The new bronze bushing in the existing small end bearing housing with an FN2 fit and countersunk thrust bushing bolts.

I. Qualifications

- 1. Products used in the work under this item shall be produced by manufacturers regularly engaged in the manufacture of the specified products. All metallic products shall be manufactured in the United States. All steel products used on this work shall be of domestic origin, and shall be completely melted, processed, manufactured and assembled in the United States in accordance with 30 ILCS 565/3-4, the Steel Products Procurements Act. Exceptions shall be certified in conformance with 30 ILCS 565/4(2)
- The Contractor and Fabricator(s) shall use an adequate number of skilled, trained, and experienced machinists and millwrights for the fabrication and shop testing of the bridge operating machinery. Machinists and millwrights shall be thoroughly familiar with the specified requirements and methods for the proper execution of the work.

J. Substitutions

 If any departures from the Contract Drawings or these Specifications are deemed necessary by the Contractor, details of such departures and the reasons therefor shall be submitted as soon as practicable to the Engineer for review. No such departures shall be made without approval by the Engineer.

K. Fits and Finishes

Unless otherwise specified in these Special Provisions or on the Contract plans, the following fits and surface finishes for machinery parts shall be in accordance with ANSI B4.1, Preferred Limits and Fits for Cylindrical Parts and ANSI B46.1, Surface Texture. Surface finishes are given as the roughness height in microinches; if additional limits are required for waviness and lay, they will be specified by the Engineer.

ROUTE: FAP 607 (US 30 / US 52) SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

<u>Part</u>	<u>Fit</u>	<u>Finish</u>
Machinery base on steel		250
Machinery base on masonry		500
Shaft journals	RC6	8
Journal bushing	RC6	16
Split bushing in base	LC1	125
Solid bushing in base (to 1/4 in.		
[6.4mm] wall)	FN1	63
Solid bushing in base(over ¼ in.		
[6.4]mm wall)	FN2	63
Hubs on shafts (to 2 in. [50.8mm]		
bore)	FN2	32
Hubs on shafts (over 2 in.		
[50.8mm] bore)	FN2	63
Hubs on main trunnions	FN3	63
Turned bolts in finished holes	LC6	63
Sliding bearings	RC6	32
Center discs		32
Keys and keyways	LC4	63
Machinery parts in fixed contact		125
Teeth of open spur gears:		
Under 1 in. (25.4mm) circular		
pitch		32
1 in. to 1 ¾ in. (25.4 to 44.5mm)		
circular pitch		63
Over 1 ¾ in. (44.5mm) circular		
pitch		125

The above fits for cylindrical parts shall also apply to the major dimensions of non-cylindrical parts.

L. Guarantee and Warranties

- 1. The Contractor shall obtain and assign to IDOT or the agency or authority having jurisdiction over the bridge, all manufacturer's warranties or guarantees on all equipment, material or products furnished for or installed as part of the work.
- 2. The Contractor shall warrant the satisfactory in-service operation of the mechanical equipment, materials, products, and related components. This warranty shall extend for a minimum period of one-year following the date of final acceptance of the Project

M. Ferrous Metals

1. Ferrous Metals shall be furnished in the following forms:

COUNTY: WILL CONTRACT NO. 62859

- a. Steel Forgings
- b. Steel Castings
- c. Structural Steel Shapes and Plates
- d. Steel Bars, Hot-Rolled and Cold-Rolled
- e. Steel Sheets
- f. Cold-formed Rectangular Steel Tubing
- g. Hot-Rolled Pipe and Tubing
- 2. Brinell or Rockwell hardness tests shall be made and recorded on inspection reports of all steel parts for which hardness values are specified on the Contract Drawings or required by the applicable material specifications.
- 3. All rough-machined forgings supplied to the Contractor or sub-contractor shall be homogeneous, free of voids, large inclusions, seams, forging laps, cracks or internal shrinkage cavities or other injurious defects. Forging stock shall be derived from blooms, continuously-cast bars or ingots which have sustained a reduction in cross-sectional area by a factor of 3 or more by hot working. The forgings shall have a fine grain size of ASTM 5 or greater. Forgings shall be hot worked at known forging temperature ranges established for the specified alloy grade, such as those listed in the American Society for Metals Heat Treater's Guide or other authoritative reference. Forgings shall be ordered in sizes with sufficient machining allowance for machining to final dimensions. Forgings shall be ultrasonically tested in accordance with ASTM A388. Charpy V-notch and tensile specimens shall taken from forging prolongations in the longitudinal direction as per ASTM A668. Any defects found in the forging shall be repaired only when feasible, and repair procedures shall be submitted for approval by the Engineer.
- 4. All steel castings shall be free of cracks, cold shuts, shrink holes, blowholes, sand pockets and porosity. All steel castings shall be cleaned free of loose sand and scale. All irregularities shall be removed. All unfinished edges of castings shall be neatly cast with rounded corners and all inside angles shall have adequate fillets consistent with good foundry practice. All surfaces requiring finish shall have adequate material allowance for machining to finish dimensions. Bolt holes in steel castings shall be drilled through the solid material. All bolt holes through castings shall be spot faced for bolt heads, nuts or washers. Bolted surfaces shall be machined to attain proper fixed contact after bolt tightening. Castings, which show or develop cracks, flaws, or other defects during hammering or from any other cause, shall be rejected in accordance with the requirements of , ASTM A148 or ASTM 781. The steel casting shall be thermally stress-relieved after shakeout, cleaning and rough grinding, by slowly heating at 100°F/hour to 1100°F, holding for 1 hour, then slowly cooling at 100°F/hour until 600°F, when it will be air cooled in still air. Charpy impact and tensile bars may be taken from the casting or from separately cast test bars as per ASTM A781. Castings shall be ultrasonically tested in accordance with ASTM A609. Maximum tolerable internal flaw size shall be 3/8" in the long direction or diameter. Any defects found in the casting shall be repaired only when feasible, and repair procedures shall be submitted for approval by the Engineer.

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

Rust

Guard

N. Non-Ferrous Metals

- 1. Copper-based bronze alloy castings shall be centrifugally cast per ASTM B271 to rough or nominal dimensions, and machined to final dimensions. Castings shall be free of voids, porosity, gas entrapment, cracks, shrinkage, or other injurious defects. They shall be subject to the same restrictions on casting quality as specified previously for steel castings. The non-machined areas shall have a fine, shot-blasted finish. Machined and ground areas shall be protected before shipment to prevent any damage or contamination during shipping. Test bars for tensile and impact tests shall be taken either from the actual casting, or from castings in separate molds from the same heat as described in ASTM B208. Castings shall be ultrasonically inspected in the same manner as per ASTM A388, except that cast bronze calibration blocks shall be used. tolerable internal flaw size for the bronze castings shall be 7/16" for the bronze collar bearing, and 1/4" for the bronze bearing insert. Any defects found in the casting shall be repaired only when feasible, and repair procedures shall be submitted for approval by the Engineer.
- 2. Brinell or Rockwell hardness tests shall be made and recorded on inspection reports of all bronze castings for which hardness values are specified by the applicable material specifications.

Ο. Coatings

Rust-inhibiting coatings for temporary protection of machined surfaces shall be 1. as manufactured by one of the following companies, or approval equal:

E.F. Houghton & Company, RustVeto344. a. Valley Forge, PA Cosomoline 1058 Sanchem, Inc. Chicago, IL No-Ox-Id "A", Special "X" b. A.W. Chesterton Company Heavy-Duty Stoneham, MA

d. Texaco, Houston, TX Metal Protective Oil L.

Ρ. Painting

1. The Contractor shall apply paint as specified in the Special Provision for Cleaning and Painting contained in the Contract Documents. The following machinery components shall be field painted after final assembly and alignment:

- Sections of pinion shaft that are not in bearing journals a.
- New cast steel bearing housing, if used b.
- Existing cast steel bearing housing that supports the small end of the C. pinion shaft
- d. Machinery guard covering the large diameter gear on the pinion shaft
- New mounting plates and locking collar on pinion shaft assembly e.

> COUNTY: WILL CONTRACT NO. 62859

Q. Materials Requirements

1. The pinion shaft shall be made of ASTM A668 Class G steel, and shall conform to the requirements and chemical composition of ASTM A322 Grade 8620, and also shall have a Charpy V-notch toughness of 25 Ft-Lbs at 40°F.

- 2. Each of the four rack sections shall be made of ASTM A516 Grade 70 steel, 149 180 BHN, and shall have a Charpy V-notch toughness of 25 Ft-Lbs at 40°F.
- 3. Gib keys shall be made of ASTM A29 Grade 8620 steel, and shall have a Charpy V-notch toughness of 15 Ft-Lbs at 40°F.
- 4. Tapered rack shims shall be made of ASTM A36 hot rolled steel plate and shall have an impact toughness requirement of 15 ft-lbs at 40°F. Flat rack shims shall be ASTM A240, Type 304 Stainless Steel sheet.
- 5. Bushings for supporting the pinion shaft shall be made of ASTM B22 Grade C90500 bronze and shall have an impact toughness requirement of 15 ft-lbs at 40°F.
- 6. The one piece bronze bearing casting shall be made of ASTM B271 Grade C92200 bronze and shall have an impact toughness requirement of 15 ft-lbs at 40°F, if used
- 7. The steel bearing housing shall be an ASTM A148 Grade 80-50 cast steel, or alternately but equivalent in dimensions and properties, API 5L line pipe with a complete-penetration welded ASTM A709 Grade 50 plate collar, or machined from 24" rough turned AISI 1040 forging rounds. All must have an impact toughness of 15 ft-lbs at 40°F. The Contractor shall submit drawings and fabrication procedures, including thermal stress relief of weldments, for approval by the Engineer if alternates to castings are used, if the steel housing is used
- 8. The pinion shall be made of ASTM A668 Class H forged steel, 200-235 BHN, and shall have a Charpy V-notch toughness of 25 Ft-Lbs at 40°F.
- 9. With respect to the impact toughness values cited above, a minimum of three Charpy V-notch test bars shall be tested for each type of component, of which only one bar may be less than the minimum value, and it shall not fall below ½ of the minimum. The three values represent an average V-notch impact toughness. Retests are permitted for material that failed and are subsequently re-heat-treated. All re-submitted sample bars shall meet or exceed the minimum required impact toughness value. Charpy V-notch impact testing shall be done in accordance with ASTM A370.

COUNTY: WILL CONTRACT NO. 62859

R. Bearings and Bushings

1. The Contractor shall choose to provide either the two piece, cast steel and bronze main pinion bearing or the one piece, bronze main pinion bearing and submit his choice to the Engineer in writing prior to bridge demolition.

- 2. Bearing housing and bushings material shall conform to the requirements specified elsewhere in this specification
- 3. The steel bearing housing or one piece bronze bearing shall be shrunk-fit into the bored structural steel plates with an ANSI B4.1 FN-1 fit.
- 4. Elevations of the center of the two east pinions must be provided by the Contractor to the Engineer before the start of any bridge demolition or machining of any new parts. The elevations shall be taken from two locations, one from the base of the track plate, and the other from the top land of the first (river side) rack segment.
- 5. The Contractor shall line bore the new and existing structural plates that the main pinion bearing housing passes through. The Engineer shall determine the location of the center of the new bore based on the relative locations of the two east pinions and other alignment and tracking data provided by the Contractor. The center of the new bore may or may not be coincident with the existing center of the hole passing through the structural plates.
- 6. The Contractor shall face the existing structural steel plates where the bearing housings and associated mounting nuts contact the structural plates to a finish of 125 micro-inches. The outer edge of the face must extend at least one half inch beyond the outer edge of the bearing housing mounting flange.
- 7. All bearings shall be fitted to the housing as indicated on the Contract Drawings. The surface between the bushing and housing shall be accurately machined. All bushings shall fit the inside bore of the housing with an ANSI B4.1 Class FN-2 fit and shall fit the shaft journals with an ANSI B4.1 Class RC6 fit.
- 8. Bearings shall be provided with double spiral grease grooves intersecting centrally in each bushing. All grease grooves shall conform to the geometry shown on the drawings. Each point of intersection shall have a drilled grease port for lubrication, for purging or cleanout, depending on location. See Section W.
- Holes shall be drilled into the vertical faces of the bearing housings as specified on the Contract Drawings for attaching slings for installation of the bearings into the existing structural plates.

COUNTY: WILL CONTRACT NO. 62859

S. Pinion Shaft

1. The distance between the new pinion shaft end connections may vary slightly from the distance shown on the contract drawings due to final alignment considerations. As a result, the required length of the pinion shaft may vary from the expected lengths. The Contractor is hereby reminded that all dimensions shall be field verified and included on shop drawings as per paragraph A, "Construction Requirements."

- 2. The pinion shaft shall be of material specified elsewhere in this specification, and shall be tested for the required mechanical properties, and test certificates shall be furnished to the Engineer
- 3. The shaft shall be accurately finish machined, round, smooth and straight and when turned to different diameters shall have smooth rounded transition fillets at the shoulders. The shaft shall be free of camber, with a longitudinal parallelism runout of ±0.005" when slowly turned on a lathe or spindle points. The shaft shall run without vibration, noise, or chatter at all speeds, up to and including the maximum operating speed.
- 4. Both ends of the shaft shall have a suitable 60-degree lathe center, with clearance hole, at the exact center. The pinion side shall have its ID threaded to accommodate the reference position shaft, see Procedure, Item 24.
- 5. Where the Contract Drawings require steps in the shaft, fillets shall be blended smoothly to adjacent diameters and the fillets shall have a minimum radius of 1/8 inch and surfaces shall have an ANSI B46.1 maximum roughness of 32 microinches, unless otherwise shown on the drawings.
- 6. All journal bearing areas on the shaft shall be accurately turned, ground and polished without tool marks or scratches on the journal surface of adjoining shoulder fillets. Surface finish of shaft journals shall have an ANSI B46.1 maximum roughness of 8 micro-inches, unless a finer finish is indicated in the Contract Drawings.

T. Fasteners

- 1. The following requirements for bolts, nuts, cap screws and washers shall apply, except where otherwise called for herein or on the plans.
- 2. All bolts for connecting machinery parts shall be finished body high-strength turned bolts as shown on the plans.
- 3. High-strength bolts shall meet the requirements of ASTM A449 or A325, and conform to the tolerances of ANSI B18.2.1 for Finished Hex Bolts. Nuts shall be ASTM A563M, Grade B or A. Unless otherwise indicated on the plans, holes for high-strength bolts shall not be more than 0.010 inches larger than the actual diameter of the body of the bolt. Two (2) hardened washers complying with the requirements of ASTM F436 shall be furnished with each high-strength bolt. All A449 or A325 high strength bolts connecting machinery to structural steel shall have the following clearances:

COUNTY: WILL CONTRACT NO. 62859

Nominal Bolt Diameter (D)	<u>Diametral Clearance (C)</u>
D <u><</u> 1 in.	$C \leq 0.010 \text{ in.}$
1 in. < D ≤ 1 ¼ in.	$C \leq 0.011$ in.
1 ¼ in. < D	$C \leq 0.012 \text{ in.}$

- 4. When using A449 bolts, these clearances can in general be met by drilling the hole to the exact nominal bolt diameter.
- 5. The Contractor shall have on site a set of micrometers and bore micrometers capable of measuring bolt and bore diameters. The Contractor shall check that bolt clearances meet specifications before assembly.
- 6. Turned bolts shall meet the requirements of ASTM A449, with the body of the bolts finished to 63 micro inch or better, and as specified in AASHTO. Threads for bolts, nuts and cap screws shall conform to the unified thread standards, coarse thread series with a Class 2A tolerance for bolts and Class 2B tolerance for nuts, in accordance with ANSI B1.1, unless otherwise specified. Turned bolts shall have turned shanks, cut threads and finished washer-faced, hexagonal Turned bolts shall be designated by their nominal thread size. All finished shanks for turned bolts, cap screws, and studs shall be 1/16 inch larger in diameter than the diameter of the thread, which shall determine the head and nut dimensions. The shanks of all turned bolts, cap screws, and studs shall have a Class LC6 fit in holes reamed for the body diameter, in accordance with ANSI Unless otherwise noted, bolt holes in machinery parts required for connecting to supporting steelwork shall be reamed together with supporting structural steel, either during assembly or at erection, after the parts are correctly assembled and aligned. Positive type locking shall be provided. Double nuts are preferred. Where double nuts are used, heavy hex and jam nuts shall be used. Alternate locking methods shall be submitted to the Engineer for approval.
- 7. The dimensions of countersunk hexagon socket-head cap screws shall conform to ANSI B18.3, and the screws shall be made of heat-treated alloy steel, zinc or nickel plated and furnished with a self-locking nylon pellet embedded in the threaded section. Set screws shall be of the headless safety type, shall have threads of the coarse thread series, and shall have cup points. Set screws shall neither be used to transmit torsion nor as the fastening or stop for any equipment that contributes to the stability or operation of the Bridge.
- 8. Unless otherwise noted on the Contract Drawings, all threads for bolts, nuts, and cap screws shall conform to the coarse thread series and shall have a Class 2 tolerance for bolts and nuts or Class 2A tolerance for bolts and Class 2B tolerance for nuts in accordance with the ANSI B1.1, "Unified Screw Threads."
- 9. The threads of all mounting bolts shall be coated with anti-seize compound before assembly of the nuts to prevent corrosion or galling and to facilitate future removal if necessary.

COUNTY: WILL
CONTRACT NO. 62859

10. Anti-seize compounds shall be as manufactured by the following companies, or approved equal:

Huron Industries, Port Huron, MI Fel-Pro, Inc., Skokie, IL SPS Technologies Unbrako, Jenkintown, PA Neolube #1 #C-670

- 11. Positive locks of an approved type shall be furnished for all nuts. If lock washers are used for securing screws or nuts, they shall be made of tempered steel and shall conform to the SAE regular dimensions and shall meet the SAE material requirements for temper and toughness.
- 12. Torque specifications shall be provided by the Contractor, and shall vary with the type and size of fastener and the nature of nut-locking devices employed.

U. Pinion and Rack Sections

- 1. The hub of the pinion shall be finished on both faces and polished where the hub face performs the function of a collar to prevent axial shaft movement.
- 2. In order to obtain the required fit between the pinion and shaft, the Contractor may furnish the cold finished shaft 1/16 inch larger than the nominal diameter specified and shall turn the ends to the required dimension for the pinion for proper fit.
- 3. The pinion and rack sections shall be machined, cut or hobbed from solid steel conforming to specifications mentioned elsewhere in this document. The sides and top lands of the pinion and rack sections shall be finished and the pitch circle shall be scribed on both sides 1/32 inch deep with a V-pointed tool. The working surfaces of all teeth shall be true to the proper profile, accurately spaced on the true pitch circle, smooth and free from tool marks. Machining burrs shall be removed from all edges of the teeth and the top edges of all teeth shall be rounded to 1/32 inch radius. Except as otherwise provided herein or indicated on the Contract Drawings, the pinion and rack sections shall be cut and mounted to meet the requirement for accuracy of AGMA Standard 390.03 Gear Classifications Manual for the specified class, with an AGMA Quality Number 8 or better.
- 4. Rack sections shall be accurately machined at their ends such that pitch is maintained between sections with equivalent accuracy as required by AGMA Quality Number 8.

V. Keys and Keyways

1. Keys and keyways shall conform to the dimensions of ANSI B17.1, Keys and Keyseats, for square and rectangular parallel keys. Unless otherwise specified, keys shall fit keyseats with an ANSI B4.1 Class FN1 fit.

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

W. Lubrication of the Main Pinion Bearing

- 1. The main pinion bearing shall be fitted for pressure lubrication by installation of a 1/4 inch NPT standard industrial giant button head lubrication fitting. The lubrication fittings shall be located as shown on the Contract Drawings.
- 2. Lubrication fittings shall be manufactured by one of the following companies, or approval equal:
 - a. Stewart Warner Alemite Corp., Charlotte, NC
 - b. Lincoln, Inc., St. Louis, MO
 - c. M. Brown Fitting Specialists, Inc., New York, NY
 - d. Auto Vehicle Parts Company, Covington, KY
- 3. The Contractor shall furnish two grease guns suitable for the lubrication fittings furnished.

X. Machinery Guards

- 1. Machinery guards shall not be required for the main racks and pinions.
- The existing machinery guard covering the large diameter gear on the pinion shaft shall be repainted according to the specifications outlined elsewhere in this document. The Contractor shall reassemble the guard using new hardware, including, but not limited to, new hinges, new bolts and new acrylic viewing window.

Y. Machinery Shims

- 1. Horseshoe and partial shims shall not be used.
- 2. Shims shall be shown and fully dimensioned and detailed on the shop drawings. Shims with open side or U-shaped holes for bolts will not be permitted.
- 3. Plastic or other non-metallic shims will not be permitted.
- 4. Machinery shims required in Machinery Scope Items 2h and 2j for alignment of equipment shall be stainless steel ASTM A240 Type 304 or Type 316, neatly trimmed to the dimensions of the assembled parts and drilled for all bolts that pass through the shims. In general, sufficient varying thickness shall be furnished to secure 0.010" variations of the shim allowance plus one shim equal to the full allowance.

Z. Submittals

- 1. The Contractor shall submit the following procedures for acceptance by the Engineer:
 - a. Locating and drilling all holes and providing specified fit between holes and bolts.

COUNTY: WILL CONTRACT NO. 62859

- b. Method of locating new pinion shaft center prior to line boring.
- c. Method of line boring and spot facing.
- d. Method of installing bearings in structural plates and achieving the specified fits.
- e. Method of locating and securing the pinion shaft axially.
- f. Method of match marking existing components to be removed and reinstalled so that they are reinstalled in their original position and orientation.
- g. All gear information and calculations shall be submitted in their entirety. This information shall include, but not be limited to, the following material test reports, heat treatment documentation and gear strength and durability calculations in accordance with current AGMA standards.
- h. Alignment of northeast machinery associated with the rack and pinion realignment (i.e. gearing, shafting, etc.).
- i. A detailed project schedule from Notice to Job Completion. The Initial Project Schedule shall be submitted as a formal submission. After approval of the Initial Project Schedule, the Contractor shall maintain and make available to the Engineer an updated schedule upon request. Please note, that several of the required components are large custom items and it is anticipated that their procurement time may require as many as 210 calendar days.

AA. Material Requirements

- 1. Complete material and hardness certifications shall be submitted for the pinion, pinion shaft and rack sections.
- 2. Test, initial field start-up, and a one (1) year supply of lubricant shall be furnished by the Contractor. Approved lubricants shall have an operating temperature range of -15°F to 125°F. The gear and bearing lubricant used, with the exception of the rack and pinion lubricant, shall be one of the following, or approved equal:
 - a. Jet Lube 202 Moly-Lith, Houston, TX
 - b. Pennwalt 81-EP-2, King of Prussia, PA
 - c. Mobil Mobilux EP-2, New York, NY

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

d. Tech-Lube T-800-S, Islip, NY

The rack and pinion lubricant used shall be one of the following, or approved equal:

- a. Exxon Oil Co. Dynagear, Fairfax, VA
- b. Mobil Mobiltac MILLIMETERS, Fairfax, VA
- c. Shell Oil Corp. Cardium Fluid M, Rock Island, IL

BB. Shop Inspection and Testing

- 1. Visual inspection of the shop-assembled machinery shall be made by, and shop tests shall be witnessed by, a designated representative of IDOT and the Engineer. The Contractor shall give not less than ten (10) working days notice to the Engineer of the beginning of work at foundries, forge, and machine shops so that inspection may be provided. No materials shall be cast, forged, or machined before the Engineer has been notified per the above.
- he Contractor shall furnish all facilities for the inspection of material and workmanship in the foundries, forge, and machine shops.
- he Inspector shall have the authority to reject any material or work that does not meet or fulfill the standards or quality requirements of the plans, specifications or these Special Provisions.
- 4. Inspection at the foundries, forge, and machine shops is intended as a means of facilitating the work and avoiding errors. It is expressly understood that inspection does not relieve the Contractor from responsibility in regard to imperfect material or substandard work and the necessity for replacing defective materials or upgrading inferior quality work that are delivered to the job site.
- nless otherwise provided, the Contractor shall furnish without additional charge material test coupons, samples or specimens as required, and all labor, testing machines, tools, and equipment necessary to prepare the specimens and to make the physical tests and chemical analyses required by the material specification for the particular product. Copies of all test reports and chemical analyses shall be furnished to the Engineer.
- 6. The Contractor shall furnish the Engineer with a copy of all orders covering work performed by subcontractors or suppliers.
- 7. The acceptance of any material or finished parts by the Engineer shall not prevent their subsequent rejection if later found to be defective. Rejected material and workmanship shall be replaced or made acceptable by the Contractor at no additional cost to IDOT.

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

CC. Delivery and Storage

1. Protection for Shipment

Coating

All finished metal surfaces and unpainted metal surfaces that could be damaged by corrosion shall be coated with the rust-inhibiting preservative as soon as practicable after finishing. This coating shall be removed from all surfaces to be lubricated immediately prior to lubrication for operation and from all surfaces prior to painting after installation. All shims shall be coated prior to shipment with the rust-inhibiting preservative, and immediately before installation this coating shall be wiped from the shims that are used.

b. Handling and Shipping

All machinery parts shall be completely protected from weather, dirt, and all other injurious conditions during manufacture, shipment, and while awaiting installation. All shaft journals that are shipped disassembled from their bearings shall be protected during shipment and before installation by coating with rust-inhibiting preservative and in addition, by packing in oil-soaked cloth secured in place by burlap and covered with heavy metal thimbles or heavy timber lagging securely attached with steel strapping. Every precaution shall be taken to insure that journal surfaces will not be damaged during shipment. Assembled units and large parts shall be mounted on skids or otherwise crated for protection during handling, shipment and storage. Mounting hardware and other small parts shall be bagged and securely attached to the assemblies with which they shall be installed. Each assembly and part shall be tagged with the part number corresponding to the designation used on the approved shop drawing.

c. Protection for Storage

All machinery parts shall be completely protected from weather, dirt, and all other injurious conditions while awaiting installation. The Engineer shall approve the methods and materials used for protection. The Contractor shall submit in advance an outline of the methods and materials to be used for this purpose. No machinery shall be stored outdoors. All equipment shall be properly protected per the manufacturer's recommendation when stored prior to installation or activation.

DD. Packaging and Delivery of Removed Parts

- 1. Removed parts shall be protected for shipment and prolonged storage by coating, wrapping and boxing in uniform size wooden boxes of substantial construction.
- 2. All removed parts shall be durably tagged or marked with a clear identification using the designation used on the approved shop drawing.
- 3. Boxes of spare parts shall be clearly marked on the outside to show their contents.
- 4. Spare parts shall be delivered to a suitable location specified by IDOT.

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

EE. Shop Drawings

1. The Contractor shall prepare shop drawings in accordance with the requirements for shop drawings specified in IDOT Standard Specifications, and the requirements herein.

- 2. Shop drawings shall show all parts completely detailed and dimensioned. Reproduction of the Contract Drawings shall not be used as base sheets for assembly or erection drawings.
- 3. Materials and material specifications shall be stated for each part. Where ASTM or any other standard specifications are used, the applicable numbers of such specifications shall be given.
- 4. Required finish machining shall be shown including grade of finish in accordance with ANSI B46.1, Surface Texture, and dimensional tolerances and allowances for specific fits in accordance with ANSI B4.1, Preferred Limits and Fits for Cylindrical Parts for components dimensioned in customary in-lb units. Precision components dimensioned in metric units shall only be provided with the concurrence of the Engineer.
- 5. The fits and finishes shall conform to the requirements of the AASHTO Standard Specifications for Movable Bridges, and to any additional requirements indicated on the Contract Drawings and in this Specification.
- 6. Shop drawings shall show all external dimensions and clearances necessary for installation and operation of all new bridge machinery.
- 7. The Contractor shall furnish complete assembly drawings or diagrams showing each part contained therein and the manufacturer's part number assigned to each part. The drawings or diagrams shall be sufficient to enable complete disassembly and reassembly of the assemblies described herein. In the event that any part is modified in any manner from the way it is described or delivered by its original manufacturer, the Contractor shall furnish a drawing which details each modification and the part shall be assigned a unique part number to assure the furnishing of replacement parts modified in similar fashion.
- 8. Certified prints of each manufactured assembly shall be furnished. Certified prints are manufacturer's drawing of proprietary products where mounting dimensions, ratings, and any other required properties are shown and manufacturer certifies their correctness for this specific project. In addition to identifying and describing each part, they shall show:
 - a. Dimensions of all principal parts comprising the assembly.
 - b. Certified external dimensions, which affect clearances and are required for installation, including tolerances.
 - c. Capacity and normal operating ratings.
 - d. Recommended lubrication, including location, lubrication fittings and provisions for adding, changing and checking the level of lubricants.
 - e. Inspection openings, seals and vents.
 - f. Details or description of all fasteners required to mount the assembly.

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

- g. Gross weight.
- h. Name of the bridge, and location.
- i. Certified prints shall be signed and dated by an officer of the manufacturing company.
- 9. Complete shop bills of materials shall be made for all machinery parts. If the bills are not shown on the shop drawings, prints of the bills shall be furnished for approval in the same manner as specified for the shop drawings.
- 10. The computed weight of each piece of machinery shall be stated on the shop drawings upon which it is detailed or billed.
- 11. Complete assembly and erection drawings shall be furnished. These drawings shall give part numbers, match marks, locational lugs or posts, and other essential dimensions for locating each part or assembled unit with respect to the bridge structure or foundation.
- 12. Each shop drawings shall be given a suitable title to describe the assembly or parts detailed thereon, and the complete project name, contract number and structure number 099-0101 shall identify each drawing.
- 13. Lubrication charts shall be prepared and submitted as shop drawings.
- 14. It is the Contractor's responsibility to manufacture and install stable functioning machinery. Review and approval of shop drawings by the Engineer does not relieve the Contractor of this responsibility.

FF. Submittal Review

- 1. The Contractor shall submit the required shop drawings (including all pertinent field measurements and procedures) for machinery items to the Engineer for review within 60 calendar days after the date of award of the Contract.
- 2. The Contractor shall submit to the Engineer for his approval six (6) prints of all shop drawings. In case of correction or rejection, the Contractor shall resubmit six (6) prints of shop drawings until drawings are approved. No materials shall be ordered prior to the approval of the shop drawings; and no work shall be done until the shop drawings therefor have been approved. After approval of the shop drawings, the Contractor shall obtain the proper "Approved" stamps on his shop drawings and shall supply the Engineer with up to six prints of the approved shop drawings.

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

CONSTRUCTION DETAILS

A. Closure of the Bridge

- 1. There will be one 14-calendar day period permitted in which the bascule span may be closed to roadway traffic and blocked and braced in the open position for replacement of the bridge operating machinery, as detailed on the Contract Plans, without interfering with marine traffic, subject to Coast Guard approval.
- 2. The Contractor shall not implement the traffic detour provided on the Maintenance of Traffic drawings nor close the bridge to traffic until all materials and machinery required to complete the work on the bascule span have been fabricated and delivered to the bridge site, or is easily accessible.
- 3. The blocking and bracing system to hold the bridge in the open position shall be designed to resist all wind loads as specified in the AASHTO Standard Specifications for Movable Bridges, 1988, and any other superimposed construction loads. The Contractor shall submit to the Engineer for approval design calculations for the bracing system prepared and signed by a Structural Engineer registered in Illinois.
- In addition to the 14-calendar day closure, the bascule span may be non-operational and closed to roadway traffic and blocked and braced in the open position for up to four three-day weekends, subject to Coast Guard approval, for aligning the northeast pinion. A three-day weekend shall mean from 10:00 PM Friday until 5:00 AM Tuesday.

B. Qualifications, Personnel and Facilities

- 1. The Contractor shall use an adequate number of skilled, trained, and experienced machinists and millwrights for the installation and testing of the bridge operating machinery. Machinists and millwrights shall be thoroughly familiar with the specified requirements and methods for the proper execution of the work. Qualifications and prior experience resumes of millwrights and field machinists shall be submitted for approval prior to commencing any on-site work by these personnel.
- 2. The Contractor shall provide supervising personnel and Engineers with experience in the design and installation of machinery for at least three previous movable bridge projects, and with previous experience in replacing drive machinery components on at least three bascule bridges.
- 3. The Contractor, or subcontractors designated by the Contractor, shall provide adequate plant and all tools, instruments and facilities required for the performance of the personnel engaged in the execution of the specific work.

COUNTY: WILL CONTRACT NO. 62859

C. Disposal

1. All existing parts of the bridge machinery which are dismantled, and are no longer required for assembly as part of the machinery rehabilitation, shall become the property of the Contractor, with the exception of the rack sections, pinion and pinion shaft, which shall be prepared for storage as outlined elsewhere in this document and delivered to IDOT.

D. Field Installation

- The Contractor shall submit a detailed procedure for dismantling and rehabilitating the existing machinery, and installing and testing new machinery. A detailed procedure for installing the rack and rack bolts, main pinion bearing housing and bolts, and adjusting the axial and transverse alignment of the pinion with the rack shall be included. Procedures shall be consistent with the construction staging. Procedures for securing the bascule in the open position shall also be submitted.
- 2. All parts of the machinery shall be assembled and erected in accordance with erection marks and matchmarks or alignment pins. Before final drilling or reaming all parts shall be precisely adjusted for correct alignment by means of shims or collars furnished for each part and securely clamped. After final alignment and bolting, all parts shall operate smoothly, quietly, and without perceptible vibration.
- 3. Except for main pinion bearing bolts, bolt holes in supporting structural steel for connecting machinery bases shall be drilled from solid metal after final alignment of the machinery unless otherwise indicated on the Contract Drawings. Erection holes, subdrilled ¼ inch undersize for undersize temporary bolts, may be used for erection and alignment of the machinery. (Temporary holes for rack alignment shall be 1/16" to 1/8" undersized.) When the machinery is aligned in its final position, the undersize holes used for temporary bolts shall then be drilled and reamed full size and full-size bolts installed to complete the installation. If further adjustment is required, slotted holes in the rack support plates may be proposed by the Contractor if warranted.
- 4. ASTM A449 bolts shall be torqued to the same tension required for A325 bolts in structural steel as required by the Engineer. The Contractor shall submit a list of fasteners associated with particular components. All structural and machinery bolts shall require locking by approved methods, such as double-nutting, lock nuts, castellated nuts or locking compounds. Bolt torques shall not exceed 80% of the yield strength of the fasteners. Unless indicated otherwise, torques shall be so indicated on the shop or erection drawings.
- 5. All surfaces in contact with bolt heads and nuts shall be clean and free of grease and paint prior to bolt installation.
- 6. After erection is complete and prior to the Contractor's inspection, all machinery components shall be lubricated with the lubricants listed on the lubrication charts.

COUNTY: WILL CONTRACT NO. 62859

7. The Contractor shall perform the initial application of lubricant at machinery installation and all subsequent lubrication applications required prior to turning over the bridge to IDOT.

E. Contractor's Inspection

- 1. After erection is completed, before the bridge is operated, the Contractor shall make a thorough inspection to insure that all gears are clean and free of obstruction, that all parts are properly aligned and adjusted as closely as practicable (without actual operation), and that all bolts are properly tightened.
- 2. Inspection of tightened fasteners shall be in accordance with Engineer-approved torque tables. The Contractor's inspection shall also verify that field painting has been performed as specified herein. Touch-up painting shall be performed to correct all painting defects found during this inspection.
- 3. The Contractor's inspection shall also verify that all machinery components have been lubricated as specified herein.
- 4. The Engineer, during his final inspection before machinery testing shall accompany the Contractor. On the basis of the results of this inspection, the Engineer shall determine whether the bridge is ready for testing

F. Field Testing

- When the mechanical machinery and electrical equipment is ready for testing the Engineer shall arrange a test schedule. The Contractor shall keep available a complete crew of machinists and millwrights for a minimum of four consecutive working days and a minimum of eight working days total for the project in order to make all tests, adjustments and corrections required.
- 2. The Contractor shall prepare a field testing procedure, which shall be submitted to the Engineer for review. No testing shall be scheduled or performed until the Engineer has approved the testing procedure.
- 3. When the machinery is ready for field testing, the operating machinery shall be driven by the main electrical system through at least ten complete cycles. Power and current drawn by each span drive motor shall be automatically recorded on a strip chart moving at the rate of 10 inches per minute or faster, or an approved equivalent electronic data acquisition device. The accuracy of the measurement device shall be within ± 5 amperes. Each rotation of an intermediate shaft shall be recorded on the chart by an event marker to define the span opening angle. The recording shall be made for complete cycles of opening and closing. The number of cycles during which measurements will be recorded shall be established by the Engineer.

COUNTY: WILL CONTRACT NO. 62859

4. During the test runs, the entire operating machinery shall be inspected to determine whether everything is in proper working order and fully meets the requirements of the Contract Drawings and the operating parameters outlined in these Specifications. The temperature rise of all electrical components shall not exceed design ratings. The Contractor or its subcontractors shall attach peak temperature recording devices on all motors, speed reducers and bearings during trial acceptance for verification purposes. If any tests show that any components are defective or inadequate, or function improperly, the Contractor shall make all corrections, adjustments, or replacements required before the final acceptance at no additional cost.

G. Defective Materials and Workmanship

- 1. All machinery rejected during inspection and testing shall be removed from the site and replaced without additional cost to IDOT.
- 2. Delays resulting from the rejection of material, equipment or work shall not be the basis of any claim by the Contractor.
- The Contractor at no additional cost to IDOT shall correct all defects found in the
 work resulting from faulty material, components, workmanship, or installation.
 IDOT reserves the right to make necessary corrections with its own forces and
 charge the resulting costs to the Contractor.

BASIS OF PAYMENT

- 1. The lump sum price bid for MECHANICAL WORK shall include the cost of furnishing all labor, materials, machinery, plant, testing, adjusting, cleaning, temporary supports and equipment, temporary operation and maintenance and equipment required including all necessary incidentals for the work herein described, and on the Contract Plans, for a complete installation of the bridge operating machinery, ready for operation.
- 2. The lump sum price bid shall include all items indicated for this specification, unless otherwise noted.
- 3. No payment will be made for repair of, or replacement of, damaged material, which was made necessary due to the Contractor's operations.
- 4. Shop and field inspection and all necessary shop and field tests required by the State, shall be included in the lump sum price bid.
- 5. No additional payment will be made for any work done by the Contractor as part of the one-year guarantee as specified herein.
- 6. The Contractor shall agree that the detailed breakdown shall not become effective until it has been approved by the Engineer, who shall have the authority to revise the breakdown as, in his judgment, may be required to make the various components of work conform to their true value. The approved detailed breakdown shall be used as a basis for payment and it can be made monthly.

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

Partial payments subject to retainage will be made for MECHANICAL WORK as follows:

- a. Twenty-five percent (25%) will be paid after all new components have been fabricated, shop tested, delivered to the site and properly stored.
- b. An additional fifteen percent (15%) will be paid after demolition is completed.
- c. Twenty percent (20%) will be paid after construction is completed.
- d. An additional thirty percent (30%) will be paid after all field testing, inspection and operational requirements are met.
- e. Remainder shall be paid upon completion of the project.

CLEANING AND PAINTING NEW METAL STRUCTURES

Effective Date: September 13, 1994 Revised Date: March 30, 2005

<u>Description.</u> The material and construction requirements that apply to cleaning and painting new structural steel shall be according to the applicable portion of Sections 506 of the Standard Specifications except as modified herein. The three coat paint system shall be the system as specified on the plans and as defined herein.

<u>Materials.</u> All materials to be used on an individual structure shall be produced by the same manufacturer. The Bureau of Materials and Physical Research has established a list of all products that have met preliminary requirements. Each batch of material must be tested and approved by that bureau before use.

The paint materials shall meet the requirements of the following articles of the Standard Specification:

<u>Item</u>	<u>Article</u>
(a) Inorganic Zinc-Rich Primer	1008.22
(b) Waterborne Acrylic	1008.24
(c) Aluminum Epoxy Mastic	1008.25
(d) Organic Zinc-Rich Primer (Note 1)	

- (a) Organic Zinc-Rich Primer (Note 1)
 (e) Epoxy Intermediate (Note 1)
- (f) Aliphatic Urethane (Note 1)

Note 1: These material requirements shall be according to the Special Provision for the Organic Zinc-Rich Paint System.

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

<u>Submittals.</u> At least 30 days prior to beginning field painting, the Contractor shall submit for the Engineer's review and acceptance, the following applicable plans, certifications and information for completing the field work. Field painting can not proceed until the submittals are accepted by the Engineer. Qualifications, certifications and QC plans for shop cleaning and painting shall be available for review by the QA Inspector.

a) Contractor/Personnel Qualifications. Except for miscellaneous steel items such as bearings, side retainers, expansion joint devices, and other items allowed by the Engineer, or unless stated otherwise in the contract, the shop painting Contractors shall be certified to perform the work as follows: the shop painting Contractor shall possess AISC Sophisticated Paint Endorsement or SSPC-QP3 certification. Evidence of current qualifications shall be provided.

Personnel managing the shop and field Quality Control program(s) for this work shall possess a minimum classification as a National Association of Corrosion Engineers (NACE) Coating Inspector Technician, or shall provide evidence of successful inspection of 3 projects of similar or greater complexity and scope that have been completed in the last 2 years. Copies of the certification and/or experience shall be provided.

The personnel performing the QC tests for this work shall be trained in coatings inspection and the use of the testing instruments. Documentation of training shall be provided.

- b) Quality Control (QC) Program. The shop and field QC Programs shall identify the following; the instrumentation that will be used, a schedule of required measurements and observations, procedures for correcting unacceptable work, and procedures for improving surface preparation and painting quality as a result of quality control findings. The field program shall incorporate the IDOT Quality Control Daily Report form, as supplied by the Engineer.
- c) Field Cleaning and Painting Inspection Access Plan. The inspection access plan for use by Contractor QC personnel for ongoing inspections and by the Engineer during Quality Assurance (QA) observations.
- d) Surface Preparation/Painting Plan. The surface preparation/painting plan shall include the methods of surface preparation and type of equipment to be utilized for solvent cleaning, abrasive blast cleaning, washing, and power tool cleaning. The plan shall include the manufacturer's names of the materials that will be used, including Product Data Sheets and Material Safety Data Sheets (MSDS).

A letter or written instructions from the coating manufacturer shall be included, indicating the required drying time for each coat at the minimum, normal, and maximum application temperatures before the coating can be exposed to temperatures or moisture conditions that are outside of the published application parameters.

<u>Field Quality Control (QC) Inspections.</u> The Contractor shall perform first line, in process QC inspections of each phase of the work. The Contractor shall implement the submitted and accepted QC Program to insure that the work accomplished complies with these specifications. The Contractor shall use the IDOT Quality Control Daily Report form supplied by the Engineer to record the results of quality control tests. The completed reports shall be turned into the Engineer before work resumes the following day.

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

The Contractor shall have available at the shop or on the field site, all of the necessary inspection and testing equipment. The equipment shall be available for the Engineer's use when requested.

<u>Field Quality Assurance (QA) Observations</u>. The Engineer will conduct QA observations of any or all phases of the work. The Engineer's observations in no way relieve the Contractor of the responsibility to provide all necessary daily QC inspections of his/her own and to comply with all requirements of this Specification.

The Engineer has the right to reject any work that was performed without adequate provision for QA observations.

The Engineer will issue a Non-Conformance Report when cleaning and painting work is found to be in violation of the specification requirements, and is not corrected to bring it into compliance before proceeding with the next phase of work.

<u>Inspection Access and Lighting.</u> The Contractor shall facilitate the Engineer's observations as required, including allowing ample time to view the work. The Contractor shall furnish, erect and move scaffolding or other mechanical equipment to permit close observation of all surfaces to be cleaned and painted. This equipment shall be provided during all phases of the work. Examples of acceptable access structures include:

- Mechanical lifting equipment, such as, scissor trucks, hydraulic booms, etc.
- Platforms suspended from the structure comprised of trusses or other stiff supporting members and including rails and kick boards.
- Simple catenary supports are permitted only if independent life lines for attaching a fall arrest system according to Occupational Safety and Health Administration (OSHA) regulations are provided.

When the surface to be inspected is more than 1.8 m (6 ft) above the ground or water surface, the Contractor shall provide the Engineer with a safety harness and a lifeline according to OSHA regulations. The lifeline and attachment shall not direct the fall into oncoming traffic. The Contractor shall provide a method of attaching the lifeline to the structure independent of the inspection facility or any support of the platform. When the inspection facility is more than 800 mm (2 1/2 ft) above the ground, the Contractor shall provide an approved means of access onto the platform.

The Contractor shall provide artificial lighting in areas where natural light is inadequate, as determined by the Engineer, to allow proper cleaning, inspection, and painting. Illumination for inspection shall be at least 325 LUX (30 foot candles). Illumination for cleaning and painting, including the working platforms, access, and entryways shall be at least 215 LUX (20 foot candles).

<u>Construction Requirements.</u> The Contractor shall be responsible for any damage caused to persons, vehicles, or property, except as indemnified by the Response Action Contractor Indemnification Act. Whenever the intended purposes of the protective devices are not being accomplished, as determined by the Engineer, work shall be immediately suspended until corrections are made. Painted surfaces damaged by any Contractor's operation shall be removed and repainted, as directed by the Engineer, at the Contractor's expense.

COUNTY: WILL CONTRACT NO. 62859

The Contractor shall comply with the provisions of the Illinois Environmental Protection Act. Paint drips, spills, and overspray are not permitted to escape into the air or onto any other surfaces or surrounding property not intended to be painted. Containment shall be used to control paint drips, spills, and overspray, and shall be dropped and all equipment secured when sustained wind speeds of 64 kph (40 mph) or greater occur, unless the containment design necessitates action at lower wind speeds. The contractor shall evaluate project-specific conditions to determine the specific type and extent of containment needed to control the paint emissions and shall submit a plan for containing or controlling paint debris (droplets, spills, overspray, etc.) to the Engineer for approval prior to starting the work. Approval shall not relieve the Contractor of their ultimate responsibility for controlling paint debris from escaping the work zone.

<u>Surface and Weather Conditions</u>. Surfaces to be painted after cleaning shall remain free of moisture and other contaminants. The Contractor shall control his/her operations to insure that dust, dirt, or moisture does not come in contact with surfaces cleaned or painted that day.

The surface temperature shall be at least 3°C (5°F) above the dew point during final surface preparation operations. The paint manufacturers' published literature shall be followed for specific temperature, dew point, and humidity restrictions during the application of each coat.

The Contractor shall monitor temperature, dew point, and humidity every 4 hours during surface preparation and coating application in the specific areas where the work is being performed. The frequency of monitoring shall increase if weather conditions are changing. The Engineer has the right to reject any work that was performed under unfavorable weather conditions. Rejected work shall be removed, recleaned, and repainted at the Contractor's expense.

<u>Seasonal Restrictions on Field Cleaning and Painting.</u> Field cleaning and painting work shall be accomplished between April 15 and October 31 unless authorized otherwise by the Engineer in writing.

Inorganic Zinc-rich/ Waterborne Acrylic Paint system. This system shall be for shop and field application of the coating system, shop application of the intermediate and top coats will not be allowed.

In the shop, all structural steel designated to be painted shall be given one coat of inorganic zinc rich primer. In the field, before the application of the intermediate coat, the prime coat and any newly installed fasteners shall be spot solvent cleaned per SSPC-SP 1 and all surfaces pressure washed to remove dirt, oil, lubricants, oxidation products, and foreign substances. Washing shall involve the use of potable water at a pressure between 7 MPa (1000 psi) and 34 MPa (5000 psi) and according to "Low Pressure Water Cleaning" of SSPC-SP12. Paint spray equipment shall not be used to perform the water cleaning. All damaged shop primed areas shall then be spot cleaned per SSPC-SP3 and spot primed with aluminum epoxy mastic. The structural steel shall then receive one full intermediate coat and one full topcoat of waterborne acrylic paint.

a) Paint drips, spills, and overspray must be controlled. If containment is used to control paint drips, spills, and overspray, the containment shall be dropped and all equipment secured when sustained wind speeds of 64 kph (40 mph) or greater occur. When the protective coverings need to be attached to the structure, they shall be attached by bolting, clamping, or similar means. Welding or drilling into the structure is prohibited unless approved by the Engineer in writing.

COUNTY: WILL CONTRACT NO. 62859

b) Coating Dry Film Thickness (dft), measured according to SSPC-PA2:

Zinc Primer: 75 microns (3 mils) min., 150 microns (6 mils) max. Epoxy Mastic: 125 microns (5 mils) min., 180 microns (7 mils) max. Intermediate Coat: 50 microns (2 mils) min., 100 microns (4 mils) max.

Topcoat: 50 microns (2 mils) min., 100 microns (4 mils) max.

The total dry film thickness, excluding the spot areas touched up with epoxy mastic, shall be between 180 and 355 microns (7 and 14 mils).

- c) The pressure washing requirement above may be waived if the QC and QA Inspectors verify the primed surfaces have not been contaminated.
- d) Damage to the paint system shall be spot cleaned using SSPC-SP3. The cleaned areas shall be spot painted with a penetrating sealer as recommended by the manufacturer, which shall overlap onto the existing topcoat. Then the aluminum epoxy mastic shall be spot applied not to go beyond the area painted with the sealer. The acrylic intermediate and topcoat shall be spot applied to the mastic with at least a 150 mm (6 inch) overlap onto the existing topcoat.

Organic Zinc-Rich/ Epoxy/ Urethane Paint System. This system shall be for full shop application of the coating system, all contact surfaces shall be masked off prior to application of the intermediate and top coats.

Additional Surface Preparation. In addition to the requirements of Section 3.2.9 of the AASHTO/AWS D1.5M/D1.5:2002 Bridge Welding Code (breaking thermal cut corners of stress carrying members), rolled and thermal cut corners to be painted with organic zinc primer shall be broken if they are sharper than a 1.5 mm (1/16 in.) radius. Corners shall be broken by a single pass of a grinder or other suitable device at a 45° angle to each adjoining surface prior to final blast cleaning, so the resulting corner approximates a 1.5 mm (1/16 in.) or larger radius after blasting. Surface anomalies (burrs, fins, deformations) shall also be treated to meet this criteria before priming.

In the shop, all structural steel designated to be painted shall be given one coat of organic zinc rich primer. Before the application of the intermediate coat, the prime coat and any newly installed fasteners shall be spot solvent cleaned per SSPC-SP 1 and all surfaces pressure washed to remove dirt, oil, lubricants, oxidation products, and foreign substances. Washing shall involve the use of potable water at a pressure between 7 MPa (1000 psi) and 34 MPa (5000 psi) and according to "Low Pressure Water Cleaning" of SSPC-SP12. Paint spray equipment shall not be used to perform the water cleaning. All damaged shop primed areas shall then be spot cleaned per SSPC-SP3, and the structural steel shall then receive one full intermediate coat of epoxy and one full topcoat of aliphatic urethane.

(a) Paint drips, spills, and overspray must be controlled. If containment is used to control paint drips, spills, and overspray, the containment shall be dropped and all equipment secured when sustained wind speeds of 64 kph (40 mph) or greater occur. When the protective coverings need to be attached to the structure, they shall be attached by bolting, clamping, or similar means. Welding or drilling into the structure is prohibited unless approved by the Engineer in writing.

COUNTY: WILL CONTRACT NO. 62859

(b) Coating Dry Film Thickness (dft), measured according to SSPC-PA2:
 organic Zinc Primer: 75 microns (3 mils) min., 125 microns (5 mils) max.
 Aluminum Epoxy Mastic: 125 microns (5 mils) min., 180 microns (7 mils) max.
 Epoxy Intermediate Coat: 75 microns (3 mils) min., 150 microns (6 mils) max.
 Aliphatic Urethane Top Coat: 65 microns (2.5 mils) min., 100 microns (4 mils) max.

- (c) The total dry film thickness, excluding the spot areas touched up with epoxy mastic, shall be between 215 and 375 microns (8.5 and 15 mils).
- (d) When specified on the plans or as requested by the Contractor, and approved by the Engineer, the epoxy intermediate and aliphatic urethane top coats shall be applied in the shop. All faying surfaces of field connections shall be masked off after priming and shall not receive the intermediate or top coats in the shop. The intermediate and top coats for field connections shall be applied, in the field, after erection of the structural steel is completed. The pressure washing requirement above may be waived if the QC and QA Inspectors verify the primed surfaces have not been contaminated.
- (e) Erection and handling damage to the shop applied system shall be spot cleaned using SSPC-SP3. The surrounding coating at each repair location shall be feathered for a minimum distance of 40 mm (1 1/2 in.) to achieve a smooth transition between the prepared areas and the existing coating. The existing coating in the feathered area shall be roughened to insure proper adhesion of the repair coats. The areas cleaned to bare metal shall be spot painted with aluminum epoxy mastic. The intermediate and finish coat shall be spot applied to with at least a 150 mm (6 inch) overlap onto the existing finish coat.

Aluminum Epoxy Mastic/ Waterborne Acrylic Paint system. This system shall be for shop or field application of the entire coating system.

Before priming with aluminum epoxy mastic the steel the surfaces to be primed shall be prepared according to SSPC SP6 for Commercial Blast Cleaning. In the field, before the application of the intermediate coat, the prime coat and any newly installed fasteners shall be spot solvent cleaned per SSPC-SP 1 and all surfaces pressure washed to remove dirt, oil, lubricants, oxidation products, and foreign substances. Washing shall involve the use of potable water at a pressure between 7 MPa (1000 psi) and 34 MPa (5000 psi) and according to "Low Pressure Water Cleaning" of SSPC-SP12. Paint spray equipment shall not be used to perform the water cleaning. All damaged shop primed areas shall then be spot cleaned per SSPC-SP3 and spot primed with aluminum epoxy mastic. The structural steel shall then receive one full intermediate coat of aluminum epoxy mastic and one full topcoat of waterborne acrylic paint.

d) Paint drips, spills, and overspray must be controlled. If containment is used to control paint drips, spills, and overspray, the containment shall be dropped and all equipment secured when sustained wind speeds of 64 kph (40 mph) or greater occur. When the protective coverings need to be attached to the structure, they shall be attached by bolting, clamping, or similar means. Welding or drilling into the structure is prohibited unless approved by the Engineer in writing.

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

e) Coating Dry Film Thickness (dft), measured according to SSPC-PA2: Epoxy Mastic Primer: 125 microns (5 mils) min., 180 microns (7 mils) max. Epoxy Mastic Intermediate Coat: 125 microns (5 mils) min., 180 microns (7 mils) max. Acrylic Topcoat: 50 microns (2 mils) min., 100 microns (4 mils) max.

The total dry film thickness, excluding the spot areas touched up with epoxy mastic, shall be between 300 and 460 microns (12 and 18 mils).

- f) The pressure washing requirement above may be waived if the QC and QA Inspectors verify the primed surfaces have not been contaminated.
- d) Damage to the paint system shall be spot cleaned using SSPC-SP3. The cleaned areas shall be spot painted with a penetrating sealer as recommended by the manufacturer, which shall overlap onto the existing topcoat. Then the aluminum epoxy mastic shall be spot applied not to go beyond the area painted with the sealer. The acrylic topcoat shall be spot applied to the mastic with at least a 150 mm (6 inch) overlap onto the existing topcoat.

The paint manufacturer's product data sheets shall be available for QA review in the shop and submitted to the Engineer prior to start of field work and the requirements as outlined in the data sheets shall be followed.

Special Instructions.

Painting Date/System Code. At the completion of the work, the Contractor shall stencil in contrasting color paint the date of painting the bridge, the painting Contractors name, and the paint type code from the Structure Information and Procedure Manual for the system used. The letters shall be capitals, not less than 50 mm (2 in.) and not more than 75 mm (3 in.) in height.

The stencil shall contain the following wording "PAINTED BY (insert the name of the painting Contractor)" and shall show the month and year in which the painting was completed, followed by "CODE S" for the Inorganic Zinc/ Acrylic System, "CODE X" for the Organic Zinc/ Epoxy/ Urethane System and "CODE U" for the Aluminum Epoxy Mastic/ Acrylic System all stenciled on successive lines. This information shall be stenciled on the cover plate of a truss end post near the top of the railing, or on the outside face of an outside stringer near both ends of the bridge facing traffic, or at some equally visible surface designated by the Engineer.

<u>Method of Measurement.</u> Shop cleaning and painting new structures will not be measured for payment. Field cleaning and painting will not be measured for payment except when performed under a contract that contains a separate pay item for this work.

Basis of Payment. This work will be paid for according to Article 506.07.

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION (BDE)

Effective: September 1, 2000 Revised: June 1, 2004

<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. This Special Provision will also be used by the Department to satisfy the requirements of the Business Enterprise for Minorities, Females, and Persons with Disabilities Act, 30 ILCS 575. For the purposes of this Special Provision, a disadvantaged business enterprise (DBE) means a business certified by the Department in accordance with the requirements of 49 CFR part 26 and listed in the DBE Directory or most recent addendum.

<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 federally-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate.

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

CONTRACT GOAL TO BE ACHIEVED BY THE CONTRACTOR. This contract includes a specific DBE utilization goal established by the Department. The goal has been included because the Department has determined that the work of this contract has subcontracting opportunities that may be suitable for performance by DBE companies. This determination is based on an assessment of the type of work, the location of the work, and the availability of DBE companies to do a part of the work. The assessment indicates that, in the absence of unlawful discrimination, and in an arena of fair and open competition, DBE companies can be expected to perform 35.00 % of the work. This percentage is set as the DBE participation goal for this contract. Consequently, in addition to the other award criteria established for this contract, the Department will award this contract to a bidder who makes a good faith effort to meet this goal of DBE participation in the performance of the work. A bidder makes a good faith effort for award consideration if either of the following is done in accordance with the procedures set forth in this Special Provision:

(a) The bidder documents that firmly committed DBE participation has been obtained to meet the goal; or

COUNTY: WILL CONTRACT NO. 62859

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

<u>BIDDING PROCEDURES</u>. Compliance with the bidding procedures of this Special Provision is required prior to the award of the contract and the failure of the as-read low bidder to comply will render the bid nonresponsive.

- (a) In order to assure the timely award of the contract, the as-read low bidder must submit a Disadvantaged Business Utilization Plan on Department form SBE 2026 within seven (7) working days after the date of letting. To meet the seven (7) day requirement, the bidder may send the Plan by certified mail or delivery service within the seven (7) working day period. If a question arises concerning the mailing date of a Plan, the mailing date will be established by the U.S. Postal Service postmark on the original certified mail receipt from the U.S. Postal Service or the receipt issued by a delivery service. It is the responsibility of the as-read low bidder to ensure that the postmark or receipt date is affixed within the seven (7) working days if the bidder intends to rely upon mailing or delivery to satisfy the submission day requirement. The Plan is to be submitted to the Department of Transportation, Bureau of Small Business Enterprises. Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764 (Telefax: (217)785-1524). It is the responsibility of the bidder to obtain confirmation of telefax delivery. The Department will not accept a Utilization Plan if it does not meet the seven (7) day submittal requirement, and the bid will be declared nonresponsive. In the event the bid is declared nonresponsive due to a failure to submit a Plan or failure to comply with the bidding procedures set forth herein, the Department may elect to cause the forfeiture of the penal sum of the bidder's proposal quaranty, and may deny authorization to bid the project if re-advertised for bids. The Department reserves the right to invite any other bidder to submit a Utilization Plan at any time for award consideration or to extend the time for award.
- (b) The Utilization Plan shall indicate that the bidder either has obtained sufficient DBE participation commitments to meet the contract goal or has not obtained enough DBE participation commitments in spite of a good faith effort to meet the goal. The Utilization Plan shall further provide the name, telephone number and telefax number of a responsible official of the bidder designated for purposes of notification of plan approval or disapproval under the procedures of this Special Provision.
- (c) The Utilization Plan shall include a DBE Participation Commitment Statement, Department form SBE 2025, for each DBE proposed for the performance of work to achieve the contract goal. The signatures on these forms must be original signatures. All elements of information indicated on the said form shall be provided, including but not limited to the following:

COUNTY: WILL CONTRACT NO. 62859

- (1) The name and address of each DBE to be used;
- (2) A description, including pay item numbers, of the commercially useful work to be done by each DBE;
- (3) The price to be paid to each DBE for the identified work specifically stating the quantity, unit price and total subcontract price for the work to be completed by the DBE. If partial pay items are to be performed by the DBE, indicate the portion of each item, a unit price where appropriate and the subcontract price amount;
- (4) A commitment statement signed by the bidder and each DBE evidencing availability and intent to perform commercially useful work on the project; and
- (5) If the bidder is a joint venture comprised of DBE firms and non-DBE firms, the plan must also include a clear identification of the portion of the work to be performed by the DBE partner(s).
- (d) The contract will not be awarded until the Utilization Plan submitted by the bidder is approved. The Utilization Plan will be approved by the Department if the Plan commits sufficient commercially useful DBE work performance to meet the contract goal. The Utilization Plan will not be approved by the Department if the Plan does not commit sufficient DBE performance to meet the contract goal unless the bidder documents that it made a good faith effort to meet the goal. The good faith procedures of Section VIII of this special provision apply. If the Utilization Plan is not approved because it is deficient in a technical matter, unless waived by the Department, the bidder will be notified and will be allowed no less than a five (5) working day period in order to cure the deficiency.

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

- (a) DBE as the Contractor: 100% goal credit for that portion of the work performed by the DBE's own forces, including the cost of materials and supplies. Work that a DBE subcontracts to a non-DBE firm does not count toward the DBE goals.
- (b) DBE as a joint venture Contractor: 100% goal credit for that portion of the total dollar value of the contract equal to the distinct, clearly defined portion of the work performed by the DBE's own forces.

COUNTY: WILL CONTRACT NO. 62859

(c) DBE as a subcontractor: 100% goal credit for the work of the subcontract performed by the DBE's own forces, including the cost of materials and supplies, excluding the purchase of materials and supplies or the lease of equipment by the DBE subcontractor from the prime contractor or its affiliates. Work that a DBE subcontractor in turn subcontracts to a non-DBE firm does not count toward the DBE goal.

- (d) DBE as a trucker: 100% goal credit for trucking participation provided the DBE is responsible for the management and supervision of the entire trucking operation for which it is responsible. At least one truck owned, operated, licensed and insured by the DBE must be used on the contact. Credit will be given for the full value of all such DBE trucks operated using DBE employed drivers. Goal credit will be limited to the value of the reasonable fee or commission received by the DBE if trucks are leased from a non-DBE company.
- (e) DBE as a material supplier:
 - (1) 60% goal credit for the cost of the materials or supplies purchased from a DBE regular dealer.
 - (2) 100% goal credit for the cost of materials or supplies obtained from a DBE manufacturer.
 - (3) 100% credit for the value of reasonable fees and commissions for the procurement of materials and supplies if not a regular dealer or manufacturer.

GOOD FAITH EFFORT PROCEDURES. If the bidder cannot obtain sufficient DBE commitments to meet the contract goal, the bidder must document in the Utilization Plan the good faith efforts made in the attempt to meet the goal. This means that the bidder must show that all necessary and reasonable steps were taken to achieve the contract goal. Necessary and reasonable steps are those which could reasonably be expected to obtain sufficient DBE participation. The Department will consider the quality, quantity and intensity of the kinds of efforts that the bidder has made. Mere *pro forma* efforts are not good faith efforts; rather, the bidder is expected to have taken those efforts that would be reasonably expected of a bidder actively and aggressively trying to obtain DBE participation sufficient to meet the contract goal.

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

COUNTY: WILL
CONTRACT NO. 62859

- (2) Selecting portions of the work to be performed by DBE companies in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the prime contractor might otherwise prefer to perform these work items with its own forces.
- (3) Providing interested DBE companies with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.
- (4) a. Negotiating in good faith with interested DBE companies. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBE companies that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBE companies to perform the work.
 - b. A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBE companies is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also, the ability or desire of a prime contractor to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Prime contractors are not, however, required to accept higher quotes from DBE companies if the price difference is excessive or unreasonable.
- (5) Not rejecting DBE companies as being unqualified without sound reasons based on a thorough investigation of their capabilities. The contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the contractor's efforts to meet the project goal.
- (6) Making efforts to assist interested DBE companies in obtaining bonding, lines of credit, or insurance as required by the recipient or contractor.
- (7) Making efforts to assist interested DBE companies in obtaining necessary equipment, supplies, materials, or related assistance or services.

ROUTE: FAP 607 (US 30 / US 52) SECTION: G-R-I-4 COUNTY: WILL

CONTRACT NO. 62859

(8) Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, state, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBE companies.

- (b) If the Department determines that the Contractor has made a good faith effort to secure the work commitment of DBE companies to meet the contract goal, the Department will award the contract provided that it is otherwise eligible for award. If the Department determines that a good faith effort has not been made, the Department will notify the bidder of that preliminary determination by contacting the responsible company official designated in the Utilization Plan. The preliminary determination shall include a statement of reasons why good faith efforts have not been found, and may include additional good faith efforts that the bidder could take. The notification will designate a five (5) working day period during which the bidder shall take additional efforts. The bidder is not limited by a statement of additional efforts, but may take other action beyond any stated additional efforts in order to obtain additional DBE commitments. The bidder shall submit an amended Utilization Plan if additional DBE commitments to meet the contract goal are secured. If additional DBE commitments sufficient to meet the contract goal are not secured, the bidder shall report the final good faith efforts made in the time allotted. All additional efforts taken by the bidder will be considered as part of the bidder's good faith efforts. If the bidder is not able to meet the goal after taking additional efforts, the Department will make a pre-final determination of the good faith efforts of the bidder and will notify the designated responsible company official of the reasons for an adverse determination.
- (c) The bidder may request administrative reconsideration of a pre-final determination adverse to the bidder within the five (5) working days after the notification date of the determination by delivering the request to the Department of Transportation, Bureau of Small Business Enterprises, Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764 (Telefax: (217)785-1524). Deposit of the request in the United States mail on or before the fifth business day shall not be deemed delivery. The pre-final determination shall become final if a request is not made and delivered. A request may provide additional written documentation and/or argument concerning the issue of whether an adequate good faith effort was made to meet the contract goal. In addition, the request shall be considered a consent by the bidder to extend the time for award. The request will be forwarded to the Department's Reconsideration Officer. The Reconsideration Officer will extend an opportunity to the bidder to meet in person in order to consider all issues of whether the bidder made a good faith effort to meet the goal. After the review by the Reconsideration Officer, the bidder will be sent a written decision within ten (10) working days after receipt of the request for reconsideration, explaining the basis for finding that the bidder did or did not meet the goal or make adequate good faith efforts to do so. A final decision by the Reconsideration Officer that a good faith effort was made shall approve the Utilization Plan submitted by the bidder and shall clear the contract for award. A final decision that a good faith effort was not made shall render the bid nonresponsive.

COUNTY: WILL CONTRACT NO. 62859

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

- (a) No amendment to the Utilization Plan may be made without prior written approval from the Department's Bureau of Small Business Enterprises. All requests for amendment to the Utilization Plan shall be submitted to the Department of Transportation, Bureau of Small Business Enterprises, Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764. Telephone number (217) 785-4611. Telefax number (217) 785-1524.
- (b) All work indicated for performance by an approved DBE shall be performed, managed and supervised by the DBE executing the Participation Statement. The Contractor shall not terminate for convenience a DBE listed in the Utilization Plan and then perform the work of the terminated DBE with its own forces, those of an affiliate or those of another subcontractor, whether DBE or not, without first obtaining the written consent of the Bureau of Small Business Enterprises to amend the Utilization Plan. If a DBE listed in the Utilization Plan is terminated for reasons other than convenience, or fails to complete its work on the contract for any reason, the Contractor shall make good faith efforts to find another DBE to substitute for the terminated DBE. The good faith efforts shall be directed at finding another DBE to perform at least the same amount of work under the contract as the DBE that was terminated, but only to the extent needed to meet the contract goal or the amended contract goal. The Contractor shall notify the Bureau of Small Business Enterprises of any termination for reasons other than convenience, and shall obtain approval for inclusion of the substitute DBE in the Utilization Plan. If good faith efforts following a termination of a DBE for cause are not successful, the Contractor shall contact the Bureau and provide a full accounting of the efforts undertaken to obtain substitute DBE participation. The Bureau will evaluate the good faith efforts in light of all circumstances surrounding the performance status of the contract, and determine whether the contract goal should be amended.

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

(c) The Contractor shall maintain a record of payments for work performed to the DBE participants. The records shall be made available to the Department for inspection upon request. After the performance of the final item of work or delivery of material by a DBE and final payment therefor to the DBE by the Contractor, but not later than thirty (30) calendar days after payment has been made by the Department to the Contractor for such work or material, the Contractor shall submit a DBE Payment Report on Department form SBE 2115 to the District Engineer. If full and final payment has not been made to the DBE, the Report shall indicate whether a disagreement as to the payment required exists between the Contractor and the DBE or if the Contractor believes that the work has not been satisfactorily completed. If the Contractor does not have the full amount of work indicated in the Utilization Plan performed by the DBE companies indicated in the Plan, the Department will deduct from contract payments to the Contractor the amount of the goal not achieved as liquidated and ascertained damages.

(d) The Department reserves the right to withhold payment to the Contractor to enforce the provisions of this Special Provision. Final payment shall not be made on the contract until such time as the Contractor submits sufficient documentation demonstrating achievement of the goal in accordance with this Special Provision or after liquidated damages have been determined and collected.

FLAGGER VESTS (BDE)

Effective: April 1, 2003 Revised: April 1, 2005

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

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

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

"(6) Nighttime Flagging. The flagger station shall be lit by additional overhead lighting other than streetlights. The flagger shall be equipped with a fluorescent orange, fluorescent yellow/green, or a combination of fluorescent orange and fluorescent yellow/green garment meeting the requirements of the American National Standards Institute specification ANSI/ISEA 107-1999 for Conspicuity Class 3 garments."

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

PARTIAL PAYMENTS (BDE)

Effective: September 1, 2003

Revise Article 109.07 of the Standard Specifications to read:

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

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

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

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

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

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

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

PAYMENTS TO SUBCONTRACTORS (BDE)

Effective: June 1, 2000 Revised: September 1, 2003

Federal regulations found at 49 CFR §26.29 mandate the Department to establish a contract clause to require Contractors to pay subcontractors for satisfactory performance of their subcontracts no later than 30 days from the receipt of each payment made to the Contractor.

State law addresses the timing of payments to be made to subcontractors. Section 7 of the Prompt Payment Act, 30 ILCS 540/7, generally requires that when a Contractor receives any payment from the Department, the Contractor is required to make corresponding, proportional payments to each subcontractor performing work within 15 calendar days after receipt of the state payment. Section 7 of the State Prompt Payment Act further provides that interest in the amount of 2% per month, in addition to the payment due, shall be paid to any subcontractor by the Contractor if the payment required by the Act is withheld or delayed without reasonable cause. The Act also provides that the time for payment required and the calculation of any interest due applies to transactions between subcontractors and lower-tier subcontractors throughout the contracting chain.

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

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

This Special Provision does not create any rights in favor of any subcontractor against the State of Illinois or authorize any cause of action against the State of Illinois on account of any payment, nonpayment, delayed payment or interest claimed by application of the State Prompt Payment Act. The Department will neither determine the reasonableness of any cause for delay of payment nor enforce any claim to payment, including interest. Moreover, the Department will not approve any delay or postponement of the 15 day requirement. State law creates remedies available to any subcontractor or material supplier, regardless of tier, who has not been paid for work properly performed or material furnished. These remedies are a lien against public funds set forth in Section 23(c) of the Mechanics Lien Act, 770 ILCS 60/23(c), and a recovery on the Contractor's payment bond in accordance with the Public Construction Bond Act, 30 ILCS 550.

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

PERSONAL PROTECTIVE EQUIPMENT (BDE)

Effective: July 1, 2004

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

TRAFFIC CONTROL DEFICIENCY DEDUCTION (BDE)

Effective: April 1, 1992 Revised: January 1, 2005

To ensure a prompt response to incidents involving the integrity of work zone traffic control, the Contractor shall provide a telephone number where a responsible individual can be contacted 24 hours-a-day.

When the Engineer is notified, or determines a traffic control deficiency exists, he/she will notify and direct the Contractor to correct the deficiency within a specified time. The specified time, which begins upon notification to the Contractor, will be from 1/2 hour to 12 hours based upon the urgency of the situation and the nature of the deficiency. The Engineer shall be the sole judge.

A deficiency may be any lack of repair, maintenance, or non-compliance with the traffic control plan. A deficiency may also be applied to situations where corrective action is not an option such as the use of non-certified flaggers for short term operations; working with lane closures beyond the time allowed in the contract; or failure to perform required contract obligations such as traffic control surveillance.

If the Contractor fails to correct a deficiency within the specified time, a daily monetary deduction will be imposed for each calendar day or fraction thereof the deficiency exists. The calendar day(s) will begin with notification to the Contractor and end with the Engineer's acceptance of the correction. The daily monetary deduction will be either \$1,000 or 0.05 percent of the awarded contract value, whichever is greater. For those deficiencies where corrective action was not an option this monetary deduction will be immediate.

In addition, if the Contractor fails to respond, the Engineer may correct the deficiency and the cost thereof will be deducted from monies due or which may become due the Contractor. This corrective action will in no way relieve the Contractor of his/her contractual requirements or responsibilities.

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

WORK ZONE TRAFFIC CONTROL DEVICES (BDE)

Effective: January 1, 2003 Revised: November 1, 2004

Add the following to Article 702.01 of the Standard Specifications:

"All devices and combinations of devices shall meet the requirements of the National Cooperative Highway Research Program (NCHRP) Report 350 for their respective categories. The categories are as follows:

Category 1 includes small, lightweight, channelizing and delineating devices that have been in common use for many years and are known to be crashworthy by crash testing of similar devices or years of demonstrable safe performance. These include cones, tubular markers, flexible delineators and plastic drums with no attachments. Category 1 devices shall be crash tested and accepted or may be self-certified by the manufacturer.

Category 2 includes devices that are not expected to produce significant vehicular velocity change but may otherwise be hazardous. These include drums and vertical panels with lights, barricades and portable sign supports. Category 2 devices shall be crash tested and accepted for Test Level 3.

Category 3 includes devices that are expected to cause significant velocity changes or other potentially harmful reactions to impacting vehicles. These include crash cushions, truck mounted attenuators and other devices not meeting the definitions of Category 1 or 2. Category 3 devices shall be crash tested and accepted for either Test Level 3 or the test level specified.

Category 4 includes portable or trailer-mounted devices such as arrow boards, changeable message signs, temporary traffic signals and area lighting supports. Currently, there is no implementation date set for this category and it is exempt from the NCHRP 350 compliance requirement.

The Contractor shall provide a manufacturer's self-certification letter for each Category 1 device and an FHWA acceptance letter for each Category 2 and Category 3 device used on the contract. The letters shall state the device meets the NCHRP 350 requirements for its respective category and test level, and shall include a detail drawing of the device."

Delete the third, fourth and fifth paragraphs of Article 702.03(b) of the Standard Specifications.

Delete the third sentence of the first paragraph of Article 702.03(c) of the Standard Specifications.

Revise the first sentence of the first paragraph of Article 702.03(e) of the Standard Specifications to read:

"Drums shall be nonmetallic and have alternating reflectorized Type AA or Type AP fluorescent orange and reflectorized white horizontal, circumferential stripes."

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

Add the following to Article 702.03 of the Standard Specifications:

"(h) Vertical Barricades. Vertical barricades may be used in lieu of cones, drums or Type II barricades to channelize traffic."

Delete the fourth paragraph of Article 702.05(a) of the Standard Specifications.

Revise the sixth paragraph of Article 702.05(a) of the Standard Specifications to read:

"When the work operations exceed four days, all signs shall be post mounted unless the signs are located on the pavement or define a moving or intermittent operation. When approved by the Engineer, a temporary sign stand may be used to support a sign at 1.2 m (5 ft) minimum where posts are impractical. Longitudinal dimensions shown on the plans for the placement of signs may be increased up to 30 m (100 ft) to avoid obstacles, hazards or to improve sight distance, when approved by the Engineer. "ROAD CONSTRUCTION AHEAD" signs will also be required on side roads located within the limits of the mainline "ROAD CONSTRUCTION AHEAD" signs."

Delete all references to "Type 1A barricades" and "wing barricades" throughout Section 702 of the Standard Specifications.

WORKING DAYS (BDE)

Effective: January 1, 2002

The Contractor shall complete the work within 35 working days.

SUBCONTRACTOR MOBILIZATION PAYMENTS (BDE)

Effective: April 2, 2005

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

This mobilization payment shall be made at least 14 days prior to the subcontractor starting work. The amount paid shall be equal to 3 percent of the amount of the subcontract reported on form BC 260A submitted for the approval of the subcontractor's work.

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

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

STEEL COST ADJUSTMENT (BDE)

Effective: April 2, 2004 Revised: July 1, 2004

<u>Description</u>. At the bidder's option, a steel cost adjustment will be made to provide additional compensation to the Contractor or a credit to the Department for fluctuations in steel prices. The bidder must indicate on the attached form whether or not steel cost adjustments will be part of this contract. This attached form shall be submitted with the bid. Failure to submit the form shall make this contract exempt of steel cost adjustments.

<u>Types of Steel Products.</u> An adjustment will be made for fluctuations in the cost of steel used in the manufacture of the following items:

Metal Piling (excluding temporary sheet piling) Structural Steel Reinforcing Steel

Other steel materials such as dowel bars, tie bars, mesh reinforcement, guardrail, steel traffic signal and light poles, towers and mast arms, metal railings (excluding wire fence), frames and grates, and other miscellaneous items will be subject to a steel cost adjustment when the pay item they are used in has a contract value of \$10,000 or greater.

<u>Documentation</u>. Sufficient documentation shall be furnished to the Engineer to verify the following:

- (a) Evidence that increased or decreased steel costs have been passed on to the Contractor.
- (b) The dates and quantity of steel, in kg (lb), shipped from the mill to the fabricator.
- (c) The quantity of steel, in kg (lb), incorporated into the various items of work covered by this special provision. The Department reserves the right to verify submitted quantities.

Method of Adjustment. Steel cost adjustments will be computed as follows:

SCA = Q X D

Where: SCA = steel cost adjustment, in dollars

Q = quantity of steel incorporated into the work, in kg (lb)

D = price factor, in dollars per kg (lb)

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

 $D = CBP_M - CBP_L$

Where: $CBP_M =$ The average of the Consumer Buying Price indices for Shredded Auto

Scrap (Chicago) and No. 1 Heavy Melt (Chicago) as published by the American Metal Market (AMM) for the day the steel is shipped from the mill. The indices will be converted from dollars per ton to dollars per kg (lb).

CBP_L = The average of the Consumer Buying Price indices for Shredded Auto Scrap (Chicago) and No. 1 Heavy Melt (Chicago) as published by the AMM

for the day the contract is let. The indices will be converted from dollars per ton to dollars per kg (lb)

ton to dollars per kg (lb).

The unit masses (weights) of steel that will be used to calculate the steel cost adjustment for the various items are shown in the attached table.

No steel cost adjustment will be made for any products manufactured from steel having a mill shipping date prior to the letting date.

If the Contractor fails to provide the required documentation, the method of adjustment will be calculated as described above; however, the CBP_M will be based on the date the steel arrives at the job site. In this case, an adjustment will only be made when there is a decrease in steel costs.

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

Percent Difference = $\{(CBP_L - CBP_M) \div CBP_L\} \times 100$

Steel cost adjustments will be calculated by the Engineer and will be paid or deducted when all other contract requirements for the steel items are satisfied. Adjustments will only be made for fluctuations in the cost of the steel as described herein. No adjustment will be made for changes in the cost of manufacturing, fabrication, shipping, storage, etc.

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

Attachment

Metal Piling (excluding temporary sheet piling) Furnishing Metal Pile Shells 305 mm (12 in.), 3.80 mm (0.179 in.) wall thickness) Furnishing Metal Pile Shells 305 mm (12 in.), 6.35 mm (0.250 in.) wall thickness) Furnishing Metal Pile Shells 305 mm (12 in.), 6.35 mm (0.250 in.) wall thickness) Furnishing Metal Pile Shells 356 mm (14 in.), 6.35 mm (0.250 in.) wall thickness) Furnishing Metal Pile Shells 356 mm (14 in.), 6.35 mm (0.250 in.) wall thickness) Guardrail Steel See plans for weights See plans for weights See plans for weights See plans for we
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Light Pole, Tenon Mount and Twin Mount, 13.5 m – 16.5 m (45 - 55 ft) 31 kg/m (21 lb/ft)
Light Dole :://Moot Arm 0 m 45 2 m /20 50 ft)
Light Pole Wiviast Affil, 9 fit = 15.2 fit (30 - 50 ft)
Light Pole w/Mast Arm, 16.5 m – 18 m (55 - 60 ft) 28 kg/m (19 lb/ft)
Light Tower w/Luminaire Mount, 24 m – 33.5 m (80 - 110 ft) 46 kg/m (31 lb/ft)
Light Tower w/Luminaire Mount, 36.5 m – 42.5 m (120 - 140 ft) 97 kg/m (65 lb/ft)
Light Tower w/Luminaire Mount, 45.5 m – 48.5 m (150 - 160 ft) 119 kg/m (80 lb/ft)
Metal Railings (excluding wire fence)
Steel Railling, Type SM 95 kg/m (64 lb/ft)
Steel Railing, Type S-1 58 kg/m (39 lb/ft)
Steel Railing, Type T-1 79 kg/m (53 lb/ft)
Steel Bridge Rail 77 kg/m (52 lb/ft)
Frames and Grates
Frame 115 kg (250 lb)
Lids and Grates 70 kg (150 lb)

SECTION: G-R-I-4 COUNTY: WILL CONTRACT NO. 62859

RETURN WITH BID

ILLINOIS DEPARTMENT OF TRANSPORTATION

OPTION FOR STEEL COST ADJUSTMENT

The bidder shall submit this form with his/her bid. Failure to submit the form shall make this contract exempt of steel cost adjustments. After award, this form, when submitted shall become part of the contract.

Contract No.:		_
Company Name:		
Contractor's Option:		
Is your company opting	g to include this spec	cial provision as part of the contract plans?
Yes	□ No	
Signaturo:		Dato:

ILLINOIS DEPARTMENT OF LABOR

PREVAILING WAGES FOR WILL COUNTY EFFECTIVE JUNE 2005

The Prevailing rates of wages are included in the Contract proposals which are subject to Check Sheet #5 of the Supplemental Specifications and Recurring Special Provisions. The rates have been ascertained and certified by the Illinois Department of Labor for the locality in which the work is to be performed and for each craft or type of work or mechanic needed to execute the work of the Contract. As required by Prevailing Wage Act (820 ILCS 130/0.01, et seq.) and Check Sheet #5 of the Contract, not less than the rates of wages ascertained by the Illinois Department of Labor and as revised during the performance of a Contract shall be paid to all laborers, workers and mechanics performing work under the Contract. Post the scale of wages in a prominent and easily accessible place at the site of work.

If the Illinois Department of Labor revises the prevailing rates of wages to be paid as listed in the specification of rates, the contractor shall post the revised rates of wages and shall pay not less than the revised rates of wages. Current wage rate information shall be obtained by visiting the Illinois Department of Labor web site at http://www.state.il.us/agency/idol/ or by calling 312-793-2814. It is the responsibility of the contractor to review the rates applicable to the work of the contract at regular intervals in order to insure the timely payment of current rates. Provision of this information to the contractor by means of the Illinois Department of Labor web site satisfies the notification of revisions by the Department to the contractor pursuant to the Act, and the contractor agrees that no additional notice is required. The contractor shall notify each of its subcontractors of the revised rates of wages.

Will County Prevailing Wage for June 2005

Trade Name				Base	FRMAN					Pensn	Vac	Trng
	==		=									
ASBESTOS ABT-GEN		ALL		29.000					6.310	3.440		
ASBESTOS ABT-MEC		BLD			24.800				3.640			
BOILERMAKER		BLD			40.140				6.920			
BRICK MASON		BLD			35.260		1.5		5.650			
CARPENTER		ALL			37.020		2.0		4.650			
CEMENT MASON		ALL			33.650		2.0		5.200			
CERAMIC TILE FNSHER		BLD		25.450	0.000				5.000			
COMMUNICATION TECH		BLD			29.720				6.760			
ELECTRIC PWR EQMT OP		ALL			39.550				6.570			
ELECTRIC PWR GRNDMAN		ALL			39.550				5.130			
ELECTRIC PWR LINEMAN		ALL			39.550				6.570			
ELECTRICIAN		BLD			37.070				6.260			
ELEVATOR CONSTRUCTOR		BLD			43.870		2.0			3.420		
GLAZIER		BLD			31.000		2.0		6.090			
HT/FROST INSULATOR		BLD			33.400				7.260			
IRON WORKER	N	ALL			30.650				6.440			
IRON WORKER	S	ALL			31.350		2.0		6.020			
LABORER		ALL			29.750		1.5		6.310			
LATHER		ALL			37.020		2.0		4.650			
MACHINIST		BLD			36.290				3.200			
MARBLE FINISHERS		ALL		25.050	0.000		1.5		5.220			
MARBLE MASON		BLD			35.260		1.5		5.650			
MILLWRIGHT		ALL	1		37.020		2.0		4.650			
OPERATING ENGINEER					41.600		2.0		6.050			
OPERATING ENGINEER					41.600				6.050			
OPERATING ENGINEER					41.600				6.050			
OPERATING ENGINEER					41.600		2.0		6.050			
OPERATING ENGINEER					42.700 42.700				6.050			
OPERATING ENGINEER OPERATING ENGINEER					42.700				6.050			
OPERATING ENGINEER OPERATING ENGINEER					42.700		1.5		6.050			
OPERATING ENGINEER OPERATING ENGINEER		HWY			39.800		1.5		6.050			
OPERATING ENGINEER OPERATING ENGINEER		HWY			39.800		1.5		6.050			
OPERATING ENGINEER		HWY			39.800				6.050			
OPERATING ENGINEER					39.800		1.5		6.050			
OPERATING ENGINEER					39.800				6.050			
PAINTER		ALL	_		36.110				5.550			
PAINTER SIGNS		BLD			28.240				2.600			
PILEDRIVER		ALL			37.020				4.650			
PIPEFITTER		BLD			37.000				6.410			
PLASTERER		BLD			32.500				5.240			
PLUMBER		BLD			37.000				4.600			
ROOFER		BLD			33.950				5.470			
SHEETMETAL WORKER		BLD		33.680	35.680	1.5			5.950			
SPRINKLER FITTER		BLD			36.500				7.000			
STONE MASON		BLD		32.050	35.260	1.5			5.650			
TERRAZZO FINISHER		BLD		26.200	0.000				5.750			
TERRAZZO MASON		BLD		30.050	32.550	1.5	1.5	2.0	5.750	6.150	0.000	0.120
TILE MASON		BLD		31.000	34.000	2.0	1.5	2.0	5.000	5.350	0.000	0.180
TRAFFIC SAFETY WRKR		HWY		22.800	24.400	1.5	1.5	2.0	3.078	1.875	0.000	0.000
TRUCK DRIVER					32.590		1.5	2.0	5.830	3.680	0.000	0.000
TRUCK DRIVER					32.590		1.5	2.0	5.830	3.680	0.000	0.000
TRUCK DRIVER					32.590				5.830			
TRUCK DRIVER			4		32.590				5.830			
TUCKPOINTER		BLD		33.500	34.500	1.5	1.5	2.0	4.210	5.840	0.000	0.400

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

WILL COUNTY

IRONWORKERS (SOUTH) - That part of the county South of a diagonal line through Braidwood and Goodenow.

The following list is considered as those days for which holiday rates of wages for work performed apply: New Years Day, Memorial/Decoration Day, Fourth of July, Labor Day, Veterans Day, Thanksgiving Day, Christmas Day. Generally, any of these holidays which fall on a Sunday is celebrated on the following Monday. This then makes work performed on that Monday payable at the appropriate overtime rate for holiday pay. Common practice in a given local may alter certain days of celebration such as the day after Thanksgiving for Veterans Day. If in doubt, please check with IDOL.

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

The grouting, cleaning, and polishing of all classes of tile, whether for interior or exterior purposes, all burned, glazed or unglazed products; all composition materials, granite tiles, warning detectable tiles, cement tiles, epoxy composite materials, pavers, glass, mosaics, fiberglass, and all substitute materials, for tile made in tile-like units; all mixtures in tile like form of cement, metals, and other materials that are for and intended for use as a finished floor surface, stair treads, promenade roofs, walks, walls, ceilings, swimming pools, and all other places where tile is to form a finished interior or exterior. The mixing of all setting mortars including but not limited to thin-set mortars, epoxies, wall mud, and any other sand and cement mixtures or adhesives when used in the preparation,

installation, repair, or maintenance of tile and/or similar materials. The handling and unloading of all sand, cement, lime, tile, fixtures, equipment, adhesives, or any other materials to be used in the preparation, installation, repair, or maintenance of tile and/or similar materials. Ceramic Tile Finishers shall fill all joints and voids regardless of method on all tile work, particularly and especially after installation of said tile work. Application of any and all protective coverings to all types of tile installations including, but not be limited to, all soap compounds, paper products, tapes, and all polyethylene coverings, plywood, masonite, cardboard, and any new type of products that may be used to protect tile installations, Blastrac equipment, and all floor scarifying equipment used in preparing floors to receive tile. The clean up and removal of all waste and materials. All demolition of existing tile floors and walls to be re-tiled.

COMMUNICATIONS TECHNICIAN

Installation, operation, inspection, maintenance, repair and service of radio, television, recording, voice, sound and vision production and reproduction, telephone and telephone interconnect, facsimile, equipment and appliances used for domestic, commercial, educational and entertainment purposes, pulling of wire through conduit but not the installation of conduit.

MARBLE FINISHER

Loading and unloading trucks, distribution of all materials (all stone, sand, etc.), stocking of floors with material, performing all rigging for heavy work, the handling of all mateiral that may be needed for the installation of such materials, building of scaffolding, polishing if needed, patching, waxing of material if damaged, pointing up, caulking, grouting and cleaning of marble, holding water on diamond or Carborundum blade or saw for setters cutting, use of tub saw or any other saw needed for preparation of material, drilling of holes for wires that anchor material set by setters, mixing up of molding plaster for installation of material, mixing up thin set for the installation of material, mixing up of sand to cement for the installatin of material and such other work as may be required in helping a Marble Setter in the handling of all material in the erection or installation of interior marble, slate, travertine, art marble, serpentine, alberene stone, blue stone, granite and other stones (meaning as to stone any foreign or domestic materials as are specified and used in building interiors and experiors and customarily known as stone in the trade), carrara, sanionyx, vitrolite and similar opaque glass and the laying of all marble tile, terrazzo tile, slate tile and precast tile, steps, risers treads, base, or any other materials that may be used as substitutes for any of the aforementioned materials and which are used on interior and experior which sare installed in a similar manner.

TRAFFIC SAFETY - work associated with barricades, horses and drums used to reduce lane usage on highway work, the installation and removal of temporary lane markings, and the installation and removal of temporary road signs.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION
Class 1. Two or three Axle Trucks. A-frame Truck when used for
transportation purposes; Air Compressors and Welding Machines,
including those pulled by cars, pick-up trucks and tractors;
Ambulances; Batch Gate Lockers; Batch Hopperman; Car and Truck
Washers; Carry-alls; Fork Lifts and Hoisters; Helpers; Mechanics
Helpers and Greasers; Oil Distributors 2-man operation; Pavement

Breakers; Pole Trailer, up to 40 feet; Power Mower Tractors; Self-propelled Chip Spreader; Skipman; Slurry Trucks, 2-man operation; Slurry Truck Conveyor Operation, 2 or 3 man; Teamsters; Unskilled dumpman; and Truck Drivers hauling warning lights, barricades, and portable toilets on the job site.

- Class 2. Four axle trucks; Dump Crets and Adgetors under 7 yards; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnapulls or Turnatrailers when pulling other than self-loading equipment or similar equipment under 16 cubic yards; Mixer Trucks under 7 yeards; Ready-mix Plant Hopper Operator, and Winch Trucks, 2 Axles.
- Class 3. Five axle trucks; Dump Crets and Adgetors 7 yards and over; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnatrailers or turnapulls when pulling other than self-loading equipment or similar equipment over 16 cubic yards; Explosives and/or Fission Material Trucks; Mixer Trucks 7 yards or over; Mobile Cranes while in transit; Oil Distributors, 1-man operation; Pole Trailer, over 40 feet; Pole and Expandable Trailers hauling material over 50 feet long; Slurry trucks, 1-man operation; Winch trucks, 3 axles or more; Mechanic--Truck Welder and Truck Painter.
- Class 4. Six axle trucks; Dual-purpose vehicles, such as mounted crane trucks with hoist and accessories; Foreman; Master Mechanic; Self-loading equipment like P.B. and trucks with scoops on the front.

OPERATING ENGINEERS - BUILDING

- Class 1. Mechanic; Asphalt Plant; Asphalt Spreader; Autograde; Backhoes with Caisson attachment; Batch Plant; Benoto; Boiler and Throttle Valve; Caisson Rigs; Central Redi-Mix Plant; Combination Back Hoe Front End-loader Machine; Compressor and Throttle Valve; Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Paver; Concrete Placer; Concrete Placing Boom; Concrete Pump (Truck Mounted); Concrete Tower; Cranes, All; Cranes, Hammerhead; Cranes, (GCI and similar Type); Creter Crane; Crusher, Stone, etc.; Derricks, All; Derricks, Traveling; Formless Curb and Gutter Machine; Grader, Elevating; Grouting Machines; Highlift Shovels or Front Endloader 2-1/4 yd. and over; Hoists, Elevators, outside type rack and pinion and similar machines; Hoists, one, two and three Drum; Hoists, Two Tugger One Floor; Hydraulic Backhoes; Hydraulic Boom Trucks; Hydro Vac (and similar equipment); Locomotives, All; Motor Patrol; Pile Drivers and Skid Rig; Post Hole Digger; Pre-Stress Machine; Pump Cretes Dual Ram; Pump Cretes; Squeeze Cretes-screw Type Pumps; Raised and Blind Hole Drill; Roto Mill Grinder; Scoops - Tractor Drawn; Slip-form Paver; Straddle Buggies; Tournapull; Tractor with Boom and Side Boom; Trenching Machines.
- Class 2. Bobcat (over 3/4 cu. yd.); Boilers; Brick Forklift; Broom, All Power Propelled; Bulldozers; Concrete Mixer (Two Bag and Over); Conveyor, Portable; Forklist Trucks; Greaser Engineer; Highlift Shovels or Front Endloaders under 2-1/4 yd.; Hoists, Automatic; Hoists, inside Freight Elevators; Hoists, Sewer Dragging Machine; Hoists, Tugger Single Drum; Laser Screed; Rock Drill (self-propelled); Rock Drill (truck mounted); Rollers, All; Steam Generators; Tractors, All; Tractor Drawn Vibratory Roller; Winch Trucks with "A" Frame.
- Class 3. Air Compressor; Combination Small Equipment Operator; Generators; Heaters, Mechanical; Hoists, Inside Elevators (Rheostat Manual Controlled); Hydraulic Power Units (Pile Driving, Extracting, and Drilling); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Pumps, Well Points; Welding Machines (2 through 5); Winches, 4 small Electric Drill Winches; Bobcat (up to and including 3/4 cu.

Class 4. Bobcats and/or other Skid Steer Loaders; Oilers; and Brick Forklift.

OPERATING ENGINEERS - FLOATING

- Class 1. Craft foreman (Master Mechanic), diver/wet tender, engineer (hydraulic dredge).
- Class 2. Crane/backhoe operator, mechanic/welder, assistant engineer (hydraulic dredge), leverman (hydraulic dredge), and diver tender.
- Class 3. Deck equipment operator (machineryman), maintenance of crane (over 50 ton capacity) or backhoe (96,000 pounds or more), tug/launch operator, loader, dozer and like equipment on barge, breakwater wall, slip/dock or scow, deck machinery, etc.
- Class 4. Deck equipment operator (machineryman/fireman), (4 equipment units or more) and crane maintenance 50 ton capacity and under or backhoe weighing 96,000 pounds or less, assistant tug operator.

OPERATING ENGINEERS - HEAVY AND HIGHWAY CONSTRUCTION Class 1. Craft Foreman; Asphalt Plant; Asphalt Heater and Planer Combination; Asphalt Heater Scarfire; Asphalt Spreader; Autograder/GOMACO or other similar type machines; ABG Paver; Backhoes with Caisson attachment; Ballast Regulator; Belt Loader; Caisson Rigs; Car Dumper; Central Redi-Mix Plant; Combination Backhoe Front Endloader Machine, (1 cu. yd. Backhoe Bucket or over or with attachments); Concrete Breaker (Truck Mounted): Concrete Conveyor; Concrete Paver over 27E cu. ft.; Concrete Placer; Concrete Tube Float; Cranes, all attachments; Cranes, Hammerhead, Linden, Peco & Machines of a like nature; Crete Crane; Crusher, Stone, etc.; Derricks, All; Derrick Boats; Derricks, Traveling; Dowell machine with Air Compressor; Dredges; Field Mechanic-Welder; Formless Curb and Gutter Machine; Gradall and Machines of a like nature; Grader, Elevating; Grader, Motor Grader, Motor Patrol, Auto Patrol, Form Grader, Pull Grader, Subgrader; Guard Rail Post Driver Mounted; Hoists, One, Two and Three Drum; Hydraulic Backhoes; Backhoes with shear attachments; Mucking Machine; Pile Drivers and Skid Rig; Pre-Stress Machine; Pump Cretes Dual Ram; Rock Drill - Crawler or Skid Rig; Rock Drill - Truck Mounted; Roto Mill Grinder; Slip-Form Paver; Soil Test Drill Rig (Truck Mounted); Straddle Buggies; Hydraulic Telescoping Form (Tunnel); Tractor Drawn Belt Loader (with attached pusher - two engineers); Tractor with Boom; Tractaire with Attachments; Trenching Machine; Truck Mounted Concrete Pump with Boom; Raised or Blind Hole; Drills (Tunnel Shaft); Underground Boring and/or Mining Machines; Wheel Excavator; Widener (APSCO).

Class 2. Batch Plant; Bituminous Mixer; Boiler and Throttle Valve; Bulldozers; Car Loader Trailing Conveyors; Combination Backhoe Front Endloader Machine (less than 1 cu. yd. Backhoe Bucket or over or with attachments); Compressor and Throttle Valve; Compressor, Common Receiver (3); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 7S Series to and including 27 cu. ft.; Concrete Spreader; Concrete Curing Machine, Burlap Machine, Belting Machine and Sealing Machine; Concrete Wheel Saw; Conveyor Muck Cars (Haglund or Similar Type); Drills, All; Finishing Machine - Concrete; Greaser Engineer; Highlift Shovels or Front Endloader; Hoist - Sewer Dragging Machine; Hydraulic Boom Trucks (All Attachments); Hydro-Blaster; All Locomotives, Dinky; Pump Cretes; Squeeze Cretes-Screw Type Pumps, Gypsum Bulker and Pump; Roller, Asphalt; Rotory Snow Plows; Rototiller, Seaman, etc., self-propelled;

Scoops - Tractor Drawn; Self-Propelled Compactor; Spreader - Chip - Stone, etc.; Scraper; Scraper - Prime Mover in Tandem (Regardless of Size); Tank Car Heater; Tractors, Push, Pulling Sheeps Foot, Disc, Compactor, etc.; Tug Boats.

Class 3. Boilers; Brooms, All Power Propelled; Cement Supply Tender; Compressor, Common Receiver (2); Concrete Mixer (Two Bag and Over); Conveyor, Portable; Farm-Type Tractors Used for Mowing, Seeding, etc.; Fireman on Boilers; Forklift Trucks; Grouting Machine; Hoists, Automatic; Hoists, All Elevators; Hoists, Tugger Single Drum; Jeep Diggers; Pipe Jacking Machines; Post-Hole Digger; Power Saw, Concrete Power Driven; Pug Mills; Rollers, other than asphalt; Seed and Straw Blower; Steam Generators; Stump Machine; Winch Trucks with "A" Frame; Work Boats; Tamper - Form-Motor Driven.

Class 4. Air Compressor; Combination - Small Equipment Operator; Directional Boring Machine; Generators; Heaters, Mechanical; Hydraulic Power Unit (Pile Driving, Extracting, or Drilling); Hydro-Blaster; Light Plants, All (1 through 5); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Pumps, Well Points; Tractaire; Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 5. Bobcats (all); Brick Forklifts; Oilers.

TERRAZZO FINISHER

The handling of sand, cement, marble chips, and all other materials that may be used by the Mosaic Terrazzo Mechanic, and the mixing, grinding, grouting, cleaning and sealing of all Marble, Mosaic, and Terrazzo work, floors, base, stairs, and wainscoting by hand or machine, and in addition, assisting and aiding Marble, Masonic, and Terrazzo Mechanics.

Other Classifications of Work:

For definitions of classifications not otherwise set out, the Department generally has on file such definitions which are available. If a task to be performed is not subject to one of the classifications of pay set out, the Department will upon being contacted state which neighboring county has such a classification and provide such rate, such rate being deemed to exist by reference in this document. If no neighboring county rate applies to the task, the Department shall undertake a special determination, such special determination being then deemed to have existed under this determination. If a project requires these, or any classification not listed, please contact IDOL at 618/993-7271 for wage rates or clarifications.

LANDSCAPING

Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscape plantsman and landscape laborer is covered by the existing classification of laborer. The work performed by landscape operators (regardless of equipment used or its size) is covered by the classifications of operating engineer. The work performed by landscape truck drivers (regardless of size of truck driven) is covered by the classifications of truck driver.