

RETURN WITH BID

LETTING DATE April 29, 2005

ITEM NUMBER 1A

Proposal Submitted By

Name

Address

City/State

Zip Code

Telephone Number

FEIN Number

FAX Number

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

NOTICE TO PROSPECTIVE BIDDERS

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

PROPOSAL COVER SHEET



AIRPORT St. Louis Regional

MUNICIPAL DESIGNATION Bethalto

COUNTY DESIGNATION Madison

ILLINOIS PROJECT NO. ALN-3355

PLEASE MARK THE APPROPRIATE BOX BELOW:

A Bid Bond is included.

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

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.

HOW MANY PROPOSALS SHOULD PROSPECTIVE BIDDERS REQUEST?: Prospective bidders should, prior to submitting their initial request for plans and proposals, determine their needs and request the total number of plans and proposals needed for each item requested. There will be a nonrefundable charge of \$15 for each set of plans and specifications issued.

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 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 plans and proposals	217/782-7806



PROPOSAL

1. Proposal of _____

for the improvement officially known as:

- (a) St. Louis Regional Airport
- (b) The proposed improvement shown in detail on the plans issued by the Department schedule and detail sheets included herein, includes, in general, the following described work:

Construct T-hangar entrance road.

TO THE DEPARTMENT OF TRANSPORTATION

2. The plans for the proposed work are those issued by the Department of Transportation to cover the work described above.

The specifications are those prepared by the Department of Transportation, Division of Aeronautics and designated as “Standard Specifications for Construction of Airports,” adopted January, 1985, the “Supplemental Specifications and Recurring Special Provisions,” adopted July 1, 2004 and the “Special Provisions” thereto, adopted and in effect on the date of invitation for bids.

3. **COMPLETION TIME/LIQUIDATED DAMAGES.** It being understood and agreed that the completion within the time limit is an essential part of the contract, the bidder agrees to complete the work within 51 calendar days, unless additional time shall be granted by the Engineer in accordance with the provisions of the specifications. In case of failure to complete the work on or before the time named herein, or within such extra time as may have been allowed by extensions, the bidder agrees that the Department of Transportation shall withhold from such sum as may be due him/her under the terms of this contract, the costs, as set forth below, which costs shall be considered and treated not as a penalty but as damages due to the State from the bidder by reason of the failure of the bidder to complete the work within the time specified in the contract. The following Schedule of Deductions supersedes the table given in Section 60-09 of the Division’s Standard Specifications for Construction of Airports.

Schedule of Deductions for Each
 Day of Overrun in Contract Time

<u>Original Contract Amount</u>		<u>Daily Charge</u>
<u>From More Than</u>	<u>To and Including</u>	<u>Calendar Day</u>
\$ 0	\$ 25,000	\$ 300
25,000	100,000	375
100,000	500,000	550
500,000	1,000,000	725
1,000,000	2,000,000	900
2,000,000	3,000,000	1,100
3,000,000	5,000,000	1,300
5,000,000	7,500,000	1,450
7,500,000	10,000,000	1,650

A daily charge shall be made for every day shown on the calendar beyond the specified contract time in calendar days.

RETURN WITH BID

4. **ASSURANCE OF EXAMINATION AND INSPECTION/WAIVER.** The undersigned further declares that he/she has carefully examined the proposal, plans, specifications, supplemental and applicable recurring special provisions, form of contract and contract bonds, 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.

5. **EXECUTION OF CONTRACT AND CONTRACT BONDS.** 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 bonds 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 and guaranteeing payment in full all bills and accounts for materials and labor used in the construction of the work.

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

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

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

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

The amount of the proposal guaranty check is _____ \$(_____). If this proposal is accepted and the undersigned shall fail to execute contract bonds 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 bonds; otherwise, the bid bond shall become void or the proposal guaranty check shall be returned to the undersigned.

RETURN WITH BID

(e) The plans and Special Provisions for each separate contract shall be construed separately for all requirements, except as described in paragraphs (a) through (d) listed above.

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

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

Schedule of Combination Bids

Combination No.	Sections Included in Combination	Combination Bid	
		Dollars	Cents

8. **SCHEDULE OF PRICES.** The undersigned submits herewith his/her schedule of prices covering the work to be performed under this contract; he/she understands that he/she must show in the schedule the unit prices (with no more than two decimal places, i.e. \$25.35, not \$25.348) for which he/she proposes to perform each item of work, that the extensions must be made by him/her, and that if not so done his/her proposal may be rejected as irregular.

The undersigned further agrees that the unit prices submitted herewith are for the purpose of obtaining a gross sum, and for use in computing the value of additions and deductions; that if there is a discrepancy between the gross sum bid and that resulting from the summation of the quantities multiplied by their respective unit prices, the latter shall govern.

STATE JOB #- - - -

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF PRICES
 CONTRACT NUMBER - SR083

ECMS002 DTGECM03 ECMR003 PAGE 1
 RUN DATE - 04/07/05
 RUN TIME - 183313

COUNTY NAME	CODE	DIST	AIRPORT NAME	FED PROJECT	ILL PROJECT
MADISON	119	08	ST. LOUIS REGIONAL	- - -	AL-N -3355

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
AR106511	TYPE A AREA LGHT POLE W/1 FIXTURE	EACH	4.000 X		=		
AR108658	3/C #8 600 V UG CABLE IN UD	L.F.	804.000 X		=		
AR110014	4" DIRECTIONAL BORE	L.F.	48.000 X		=		
AR110502	2-WAY CONCRETE ENCASED DUCT	L.F.	28.000 X		=		
AR150510	ENGINEER'S FIELD OFFICE	L.S.	1.000 X		=		
AR150530	TRAFFIC MAINTENANCE	L.S.	1.000 X		=		
AR152410	UNCLASSIFIED EXCAVATION	C.Y.	2,675.000 X		=		
AR156510	SILT FENCE	L.F.	640.000 X		=		
AR156511	DITCH CHECK	EACH	9.000 X		=		
AR156520	INLET PROTECTION	EACH	3.000 X		=		
AR156521	HEADWALL PROTECTION	EACH	6.000 X		=		
AR162508	CLASS E FENCE 8'	L.F.	303.000 X		=		
AR162605	CLASS E GATE-5'	EACH	1.000 X		=		
AR162724	ELECTRICAL GATE 24'	EACH	1.000 X		=		
AR162900	REMOVE CLASS E FENCE	L.F.	360.000 X		=		

ST. LOUIS REGIONAL
MADISON

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF PRICES
CONTRACT NUMBER - SR083

ECMS002 DTGECM03 ECMR003 PAGE 2
RUN DATE - 04/07/05
RUN TIME - 183313

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
AR201610	BITUMINOUS BASE COURSE	TON	621.000 X		=		
AR209510	CRUSHED AGGREGATE BASE COURSE	TON	933.000 X		=		
AR401610	BITUMINOUS SURFACE COURSE	TON	294.000 X		=		
AR401910	REMOVE & REPLACE BIT. PAVEMENT	S.Y.	35.000 X		=		
AR501604	4" PCC SIDEWALK	S.F.	422.000 X		=		
AR501910	REMOVE & REPLACE PCC PAVEMENT	S.Y.	81.000 X		=		
AR602510	BITUMINOUS PRIME COAT	GAL.	630.000 X		=		
AR603510	BITUMINOUS TACK COAT	GAL.	270.000 X		=		
AR620520	PAVEMENT MARKING-WATERBORNE	S.F.	643.000 X		=		
AR701515	15" RCP, CLASS IV	L.F.	412.500 X		=		
AR701518	18" RCP, CLASS IV	L.F.	53.000 X		=		
AR701900	REMOVE PIPE	L.F.	480.000 X		=		
AR705546	6" NON PERFORATED UNDERDRAIN	L.F.	50.000 X		=		
AR705548	8" NON PERFORATED UNDERDRAIN	L.F.	190.000 X		=		
AR751411	INLET-TYPE A	EACH	3.000 X		=		

ST. LOUIS REGIONAL
MADISON

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF PRICES
CONTRACT NUMBER - SR083

ECMS002 DTGECM03 ECMR003 PAGE 3
RUN DATE - 04/07/05
RUN TIME - 183313

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
AR751540	MANHOLE 4'	EACH	1.000 X		=		
AR751900	REMOVE INLET	EACH	1.000 X		=		
AR752412	PRECAST REINFORCED CONC. FES 12"	EACH	6.000 X		=		
AR752415	PRECAST REINFORCED CONC. FES 15"	EACH	1.000 X		=		
AR752418	PRECAST REINFORCED CONC. FES 18"	EACH	2.000 X		=		
AR754210	CONCRETE CURB	L.F.	79.000 X		=		
AR760506	6" DUCTILE IRON WATER MAIN	L.F.	12.000 X		=		
AR760508	8" DUCTILE IRON WATER MAIN	L.F.	447.000 X		=		
AR760716	16" STEEL CASING	L.F.	60.000 X		=		
AR760800	FIRE HYDRANT	EACH	1.000 X		=		
AR760861	8" X 8" TAPPING VALVE & SLEEVE	EACH	1.000 X		=		
AR760965	RELOCATE FIRE HYDRANT	EACH	1.000 X		=		
AR901510	SEEDING	ACRE	1.800 X		=		
AR908510	MULCHING	ACRE	1.800 X		=		
AR910200	ROADWAY SIGN	EACH	3.000 X		=		

ST. LOUIS REGIONAL
MADISON

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF PRICES
CONTRACT NUMBER - SR083

ECMS002 DTGECM03 ECMR003 PAGE 4
RUN DATE - 04/07/05
RUN TIME - 183313

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
AR910410	PARKING BLOCK	EACH	8.000 X			=	
						TOTAL \$	

NOTE:

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

RETURN WITH BID

THE PRECEDING SCHEDULE OF PRICES MUST BE

COMPLETED AND RETURNED.

RETURN WITH BID

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

I. GENERAL

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

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

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

II. ASSURANCES

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

B. Felons

1. The Illinois Procurement Code provides:

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

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

RETURN WITH BID

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 \$145,877.00 Sixty percent of the salary is \$87526.20.

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

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.

RETURN WITH BID

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, offers, contractors, proposers, or employees of the State, a notice of the relevant facts shall be transmitted to the Attorney General and the chief procurement officer.

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

H. Confidentiality

1. The Illinois Procurement Code provides:

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

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

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I. Insider Information

1. The Illinois Procurement Act provides:

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

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

III. CERTIFICATIONS

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

B. Bribery

1. The Illinois Procurement Code provides:

Section 50-5. Bribery.

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

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

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

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

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

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

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

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

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

RETURN WITH BID

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.

RETURN WITH BID

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.

RETURN WITH BID

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. 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.

J. Apprenticeship and Training Certification

In accordance with the provisions of Section 30-22 (6) of the Illinois Procurement Code, the bidder certifies that it is a participant, either as an individual or as part of a group program, in the approved apprenticeship and training programs applicable to each type of work or craft that the bidder will perform with its own forces. The bidder further certifies for work that will be performed by subcontract that each of its subcontractors submitted for approval either (a) is, at the time of such bid, participating in an approved, applicable apprenticeship and training program; or (b) will, prior to commencement of performance of work pursuant to this contract, begin participation in an approved apprenticeship and training program applicable to the work of the subcontract. The Department, at any time before or after award, may require the production of a copy of each applicable Certificate of Registration issued by the United States Department of Labor evidencing such participation by the contractor and each of its subcontractors. Unless otherwise directed in writing by the Department, applicable apprenticeship and training programs are those that have been approved and registered with the United States Department of Labor. The bidder shall list in the space below, the official name of the program sponsor holding the Certificate of Registration for all of the types of work or crafts in which the bidder is a participant and that will be performed with the bidder's forces. Types of work or craft work that will be subcontracted may be indicated as to be subcontracted.

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

RETURN 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. The disclosure shall include the names, addresses, and dollar or proportionate share of ownership of each person making the disclosure, their instrument of ownership or beneficial relationship, and notice of any potential conflict of interest resulting from the current ownership or beneficial interest of each person making the disclosure having any of the relationships identified in Section 50-35 and on the disclosure form.

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

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

C. Disclosure Form Instructions

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

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

CERTIFICATION STATEMENT

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

(Bidding Company)

Name of Authorized Representative (type or print)

Title of Authorized Representative (type or print)

Signature of Authorized Representative

Date

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

If the bidder is a publicly traded entity subject to Federal 10K reporting, the 10K Report may be submitted to meet the requirements of Form A. If a bidder is 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 \$87,526.20? YES _____ NO _____
3. Does anyone in your organization receive more than \$87,526.20 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 \$87,526.20? YES _____ NO _____

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

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

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

Form B: Identifying Other Contracts & Procurement Related Information Disclosure Form B must be completed for each bid submitted by the bidding entity. It must be signed by an individual who is authorized to execute contracts for the bidding entity. *Note: Signing the NOT APPLICABLE STATEMENT on Form A does not allow the bidder to ignore Form B. Form B must be completed, signed and dated or the bidder may be considered nonresponsive and the bid will not be accepted.*

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

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

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

D. Bidders Submitting More Than One Bid

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

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

**ILLINOIS DEPARTMENT
OF TRANSPORTATION**

**Form A
Financial Information &
Potential Conflicts of Interest
Disclosure**

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

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

DISCLOSURE OF FINANCIAL INFORMATION

1. Disclosure of Financial Information. The individual named below has an interest in the BIDDER (or its parent) in terms of ownership or distributive income share in excess of 5%, or an interest which has a value of more than \$87,526.20 (60% of the Governor’s salary as of 10/1/2000). **(Make copies of this form as necessary and attach a separate Disclosure Form A for each individual meeting these requirements)**

FOR INDIVIDUAL (type or print information)	
NAME:	_____
ADDRESS	_____
Type of ownership/distributable income share:	
stock _____	sole proprietorship _____
partnership _____	other: (explain on separate sheet): _____
% or \$ value of ownership/distributable income share: _____	

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

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

(b) State employment of spouse, father, mother, son, or daughter, including contractual employment for services in the previous 2 years.
 Yes _____ No _____

(c) Elective status; the holding of elective office of the State of Illinois, the government of the United States, any unit of local government authorized by the Constitution of the State of Illinois or the statutes of the State of Illinois currently or in the previous 3 years.
 Yes _____ No _____

(d) Relationship to anyone holding elective office currently or in the previous 2 years; spouse, father, mother, son, or daughter
 Yes _____ No _____

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

Yes _____ No _____

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

Yes _____ No _____

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

Yes _____ No _____

(h) Relationship to anyone who is or was a registered lobbyist in the previous 2 years; spouse, father, mother, son, or daughter.

Yes _____ No _____

(i) Compensated employment, currently or in the previous 3 years, by any registered election or reelection committee registered with the Secretary of State or any county clerk of the State of Illinois, or any political action committee registered with either the Secretary of State or the Federal Board of Elections.

Yes _____ No _____

(j) Relationship to anyone; spouse, father, mother, son, or daughter; who was a compensated employee in the last 2 years by any registered election or re-election committee registered with the Secretary of State or any county clerk of the State of Illinois, or any political action committee registered with either the Secretary of State or the Federal Board of Elections.

Yes _____ No _____

APPLICABLE STATEMENT

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

Completed by:

Name of Authorized Representative (type or print)

Completed by:

Title of Authorized Representative (type or print)

Completed by:

Signature of Individual or Authorized Representative

Date

NOT APPLICABLE STATEMENT

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

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

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**

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

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

DISCLOSURE OF OTHER CONTRACTS AND PROCUREMENT RELATED INFORMATION

1. Identifying Other Contracts & Procurement Related Information. The BIDDER shall identify whether it has any pending contracts (including leases), bids, proposals, or other ongoing procurement relationship with any other State of Illinois agency: Yes _____ No _____

If “No” is checked, the bidder only needs to complete the signature box on the bottom of this page.

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

THE FOLLOWING STATEMENT MUST BE SIGNED

Name of Authorized Representative (type or print)	

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

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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.



PART I. IDENTIFICATION

Human Rights

Bid Number: _____ Duration of Project: _____

Name of Bidder: _____

PART II. WORKFORCE PROJECTION

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

TABLE A

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

TABLE B

CURRENT EMPLOYEES TO BE ASSIGNED TO CONTRACT			
TOTAL EMPLOYEES		MINORITY EMPLOYEES	
M	F	M	F

TABLE C

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

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

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

Note: See instructions on page 2

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PART II. WORKFORCE PROJECTION - continued

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

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

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

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

PART III. AFFIRMATIVE ACTION PLAN

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

Company _____ Telephone Number _____

Address _____

NOTICE REGARDING SIGNATURE

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

<p>Signature: _____ Title: _____ Date: _____</p>
--

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

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

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

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

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CERTIFICATIONS REQUIRED BY STATE AND/OR FEDERAL LAW. The bidder is required by State and/or Federal law to make the below certifications and assurances as a part of the proposal and contract upon award. It is understood by the bidder that the certifications and assurances made herein are a part of the contract.

By signing the Proposal Signature Sheet, the bidder certifies that he/she has read and completed each of the following certifications and assurances, that required responses are true and correct and that the certified signature of the Proposal Signature Sheet constitutes an endorsement and execution of each certification and assurance as though each was individually signed:

A. NPDES CERTIFICATION

In accordance with the provisions of the Illinois Environmental Protection Act, the Illinois Pollution Control Board Rules and Regulations (35 Ill. Adm. Code, Subtitle C, Chapter I), and the Clean Water Act, and the regulations thereunder, this certification is required for all construction contracts that will result in the disturbance of five or more acres total land area.

The undersigned bidder certifies under penalty of law that he/she understands the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR100000) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

The Airport Owner or its Agent will:

- 1) prepare, sign and submit the Notice of Intent (NOI)
- 2) conduct site inspections and complete and file the inspection reports
- 3) submit Incidence of Non-Compliance (ION) forms
- 4) submit Notice of Termination (NOT) form

Prior to the issuance of the Notice-to-Proceed, for each erosion control measure identified in the Storm Water Pollution Prevention Plan, the contractor or subcontractor responsible for the control measure(s) must sign the above certification (forms to be provided by the Department).

B. NON-APPROPRIATION CLAUSE

By submitting a bid/proposal under this solicitation the offeror certifies that he/she understands that obligations of the State will cease immediately without penalty or further payment being required in any fiscal year the Illinois General Assembly fails to appropriate or otherwise make available sufficient funds for this contract.

- C. Contractor is not delinquent in the payment of any debt to the State (or if delinquent has entered into a deferred payment plan to pay the debt), and Contractor acknowledges the contracting state agency may declare the contract void if this certification is false (30 ILCS 500/50-11, effective July 1, 2002).

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NOTICE TO BIDDERS

1. **TIME AND PLACE OF OPENING BIDS.** Sealed proposals for the improvement described herein will be received by the Department of Transportation at the Harry R. Hanley Building, 2300 South Dirksen Parkway in Springfield, Illinois until 10:00 o'clock a.m., April 29, 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, shown in detail on the plans issued by the Department includes, in general, the following described work:

Construct T-hangar entrance road.
3. **INSTRUCTIONS TO BIDDERS.** (a) This Notice, the invitation for bids, proposal and award shall, together with all other documents in accordance with Article 10-15 of the Illinois Standard Specifications for Construction of Airports, 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 proposal 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.
5. **PRE-BID CONFERENCE.** There will be a pre-bid conference held at N/A at the St. Louis Regional Airport administration building. For engineering information, contact William Murray of Hanson Professional Services, Inc. at (217) 785-2450.
6. **DISADVANTAGED BUSINESS POLICY.** The DBE goal for this contract is 23.0%.
7. **SPECIFICATIONS AND DRAWINGS.** The work shall be done in accordance with the Illinois Standard Specifications for Construction of Airports, the Illinois Division of Aeronautics Supplemental Specifications and Recurring Special Provisions, the Special Provisions dated December 15, 2004 and the Construction Plans dated December 15, 2004 as approved by the Department of Transportation, Division of Aeronautics.

RETURN WITH BID

- 8. MINIMUM WAGE RATES.** The Contractor will be required to pay the Minimum Wages in accordance with the included Schedule of Minimum Wage Rates.
- 9. RIGHTS TO INVENTIONS.** All rights to inventions and materials generated under this contract are subject to Illinois law and to regulations issued by the FAA and the Sponsor of the Federal grant under which this contract is executed. Information regarding these rights is available from the FAA and the Sponsor.
- 10. TERMINATION OF CONTRACT.**
1. The Sponsor may, be written notice, terminate this contract in whole or in part at any time, either for the Sponsor's convenience or because of failure to fulfill the contract obligations. Upon receipt of such notice services shall be immediately discontinued (unless the notice directs otherwise) and all materials as may have been accumulated in performing this contract, whether completed or in progress, delivered to the Sponsor.
 2. If the termination is for the convenience of the Sponsor, an equitable adjustment in the contract price shall be made, but no amount shall be allowed for anticipated profit on unperformed services.
 3. If the termination is due to failure to fulfill the Contractor's obligations, the Sponsor may take over the work and prosecute the same to completion by contract or otherwise. In such case, the Contractor shall be liable to the Sponsor for any additional cost occasioned to the Sponsor thereby.
 4. If, after notice of termination for failure to fulfill contract obligations, it is determined that the Contractor had not so failed, the termination shall be deemed to have been effected for the convenience of the Sponsor. In such event, adjustment in the contract price shall be made as provided in paragraph 2 of this clause.
 5. The rights and remedies of the sponsor provided in this clause are in addition to any other rights and remedies provided by law or under this contract.
- 11. VETERAN'S PREFERENCE.** The Contractor shall comply with the Veterans Preference Act (330 ILCS 55/0.01 et seq.).

RETURN WITH BID

12. BIDDING REQUIREMENTS AND BASIS OF AWARD. When alternates are included in the proposal, the following shall apply:

a. Additive Alternates

- (1) Bidders must submit a bid for the Base Bid and for all Additive Alternates.
- (2) Award of this contract will be made to the lowest responsible qualified bidder computed as follows:

The lowest aggregate amount of (i) the Base Bid plus (ii) any Additive Alternate(s) which the Department elects to award.

The Department may elect not to award any Additive Alternates. In that case, award will be to the lowest responsible qualified bidder of the Base Bid.

b. Optional Alternates

- (1) Bidders must submit a bid for the Base Bid and for either Alternate A or Alternate B or for both Alternate A and Alternate B.
- (2) Award of this contract will be made to the lowest responsible qualified bidder computed as follows:

The lower of the aggregate of either (i) the Base Bid plus Alternate A or (ii) the Base Bid plus Alternate B.

13. CONTRACT TIME. The Contractor shall complete all work within the specified contract time. Any calendar day extension beyond the specified contract time must be fully justified, requested by the Contractor in writing, and approved by the Engineer, or be subject to liquidated damages.

The contract time for this contract is 51 calendar days and is based on anticipated notice-to-proceed date of June 10, 2005.

14. INDEPENDENT WEIGHT CHECKS. The Department reserves the right to conduct random unannounced independent weight checks on any delivery for bituminous, aggregate or other pay item for which the method of measurement for payment is based on weight. The weight checks will be accomplished by selecting, at random, a loaded truck and obtaining a loaded and empty weight on an independent scale. In addition, the department may perform random weight checks by obtaining loaded and empty truck weights on portable scales operated by department personnel.

15. GOOD FAITH COMPLIANCE. The Illinois Department of Transportation has made a good faith effort to include all statements, requirements, and other language required by federal and state law and by various offices within federal and state governments whether that language is required by law or not. If anything of this nature has been left out or if additional language etc. is later required, the bidder/contractor shall cooperate fully with the Department to modify the contract or bid documents to correct the deficiency. If the change results in increased operational costs, the Department shall reimburse the contractor for such costs as it may find to be reasonable.

RETURN WITH BID

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 4 of this Proposal, and that the contract will be executed in accordance with the rules of the Department if an award is made on this bid.

Firm Name _____

(IF AN INDIVIDUAL)

Signature of Owner _____

Business Address _____

Firm Name _____

By _____

(IF A CO-PARTNERSHIP)

Business Address _____

Name and Address of All Members of the Firm:

Corporate Name _____

By _____

Corporate Seal

Attest _____

President

(IF A CORPORATION)

Business Address _____

Corporate Secretary

Name of Corporate Officers:

President Corporate Secretary Treasurer

NOTARY CERTIFICATION

STATE OF ILLINOIS,

ALL SIGNATURES MUST BE NOTARIZED

COUNTY OF _____

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

_____ AND _____

(Insert names of individual(s) signing on behalf of bidder)

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

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

My commission expires _____ (Seal)

Notary Public



Return with Bid

Division of Aeronautics
Proposal Bid Bond
(Effective January 1, 2002)

Item No. 1A
Letting Date: April 29, 2005

Airport: St. Louis Regional Airport
Ill. Proj. No. ALN-3355
Fed. Proj. No.

KNOW ALL MEN BY THESE PRESENTS. that we, as PRINCIPAL, and as SURETY are held and firmly bound unto the, hereinafter called the SPONSOR, in the penal sum of 5 percent of the total bid price or of the amount specified in Section 6, PROPOSAL GUARANTEE of the Proposal Document, whichever is the lesser sum, well and truly to be paid unto the said SPONSOR, for the payment of which we bind ourselves, our heirs, executors, administrators, successors, and assigns.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the PRINCIPAL has submitted a Bid Proposal to the SPONSOR through its AGENT, the State of Illinois, Department of Transportation, Division of Aeronautics, for the improvement designated by the Transportation Bulletin Item Number and Letting Date indicated above;

NOW, THEREFORE, if the SPONSOR through its AGENT shall accept the Bid Proposal of the PRINCIPAL; and if PRINCIPAL shall within the time and as specified in the Bidding and Contract Documents, submit the DBE Utilization Plan that is acceptable and approved by the AGENT, and if after the award, the PRINCIPAL shall enter into a contract in accordance with the terms of the Bidding and Contract Documents including evidence of insurance coverage's and providing such bond as specified with good and sufficient surety for the faithful performance of such contract and for prompt payment of labor and material furnished in the prosecution thereof; or if, in the event of the failure of the PRINCIPAL to make the required DBE submission or to enter into such contract and to give the specified bond, the PRINCIPAL pays to the SPONSOR the difference not to exceed the penalty hereof between the amount in the Bid Proposal and such larger amount for which the SPONSOR may contract with another party to perform the work covered by said Proposal Document, then, this obligation to be void; otherwise to remain in full force and effect.

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

IN WITNESS WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by

their respective officers this day of A.D., 20.

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

Notary Certification for Principal and Surety

State of Illinois)
) ss:
County of)

I, a Notary Public in and for said County, do hereby certify that and (Insert names of individuals signing on behalf of PRINCIPAL & SURETY)

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

Given under my hand and notary seal this day of A.D., 20

My commission expires (Notary Public)

In lieu of completing the above section of the Proposal Bid Form, the PRINCIPAL may file an Electronic Bid Bond. By signing below, the PRINCIPAL is ensuring the identified electronic bid bond has been executed and the PRINCIPAL and SURETY are firmly bound to the SPONSOR through its AGENT under the conditions of the Bid Bond as shown above.

Electronic Bid Bond ID# Company/Bidder Name Signature and Title
Form D.E. (Rev. 12-2001)



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

Engineer of Design and Environment - Room 323
Illinois Department of Transportation
2300 South Dirksen Parkway
Springfield, Illinois 62764

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.



Illinois Department of Transportation

PAYROLLS

The Contractor will submit weekly a certified copy of all payrolls to the Illinois Department of Transportation, Division of Aeronautics. The certification will affirm that the payrolls are correct and complete, that the wage rates contained therein are not less than the minimum rates determined by the Department of Labor, State of Illinois, for the employees in question as prescribed in this Contract, and that the classification set forth for each laborer or mechanic conforms to the work he performs. The Contractor will make his employment records available for inspection by authorized representatives of the Illinois Department of Transportation, Division of Aeronautics, and will permit such representatives to interview employees during working hours on the job.

Payroll records will be maintained during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records will contain the name and address of each such employee, his correct classification, rate of pay, daily and weekly number of hours worked, deductions made and actual wages paid.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
Division of Aeronautics

REQUIRED PROVISIONS - STATE CONTRACTS

Effective April 1, 1965
Revised January 2, 1973

I. SELECTION OF LABOR

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

II. EQUAL EMPLOYMENT OPPORTUNITY

In the event of the Contractor's noncompliance with any provisions of this Equal Employment Opportunity Clause, the Illinois Fair Employment Practices Act or the Fair Employment Practices Commission's Rules and Regulations for Public Contracts, the Contractor may be declared nonresponsible and therefore ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations, and the contract may be canceled or avoided in whole or in part, and such other sanctions or penalties may be imposed or remedies invoked as provided by statute or regulation.

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

- (1) That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin or ancestry; and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.
- (2) That, if it hires additional employees in order to perform this contract or any portion hereof, it will determine the availability (in accordance with the Commission's Rules and Regulations for Public Contracts) of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.
- (3) That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, national origin or ancestry.
- (4) That it will send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the Contractor's obligations under the Illinois Fair Employment Practices Act and the Commission's Rules and Regulations for Public Contracts. If any such labor organization or representative fails or refuses to cooperate with the Contractor in its efforts to comply with such Act and Rules and Regulations, the Contractor will promptly so notify the Illinois Fair Employment Practices Commission and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations thereunder.
- (5) That it will submit reports as required by the Illinois Fair Employment Practices Commission's Rules and Regulations for Public Contracts, furnish all relevant information as may from time to time be requested by the Commission or the contracting agency, and in all respects comply with the Illinois Fair Employment Practices Act and the Commission's Rules and Regulations for Public Contracts.
- (6) That it will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency and the Illinois Fair Employment Practices Commission for purposes of investigation to ascertain compliance with the Illinois Fair Employment Practices Act and the Commission's Rules and Regulations for Public Contracts.
- (7) That it will include verbatim or by reference the provisions of paragraphs 1 through 7 of this clause in every performance subcontract as defined in Section 2.10(b) of the Commission's Rules and Regulations for Public Contracts so that such provisions will be binding upon every subcontractor; and that it will also so include the provisions or paragraphs 1, 5, 6 and 7 in every supply subcontract as defined in Section 2.10(a) of the Commission's Rules and Regulations for Public Contracts so that such provisions will be binding upon every such subcontractor. In the same manner as with other provisions of this contract, the Contractor will be liable for compliance with applicable provisions of this clause by all its subcontractors; and further it will promptly notify the contracting agency and the Illinois Fair Employment Practices Commission in the event any subcontractor fails or refuses to comply therewith. In addition, no Contractor will utilize any subcontractor declared by the Commission to be nonresponsible and therefore ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

CONSTRUCTION CONTRACT PROCUREMENT POLICIES

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SECTION 1

PROPOSAL REQUIREMENTS AND CONDITIONS

1-01 ADVERTISEMENT (Notice to Bidders). The State of Illinois shall publish the advertisement at such places and at such times as are required by local law or ordinances. The published advertisement shall state the time and place for submitting sealed proposals; a description of the proposed work; instructions to bidders as to obtaining proposal forms, plans, and specifications; proposal guaranty required; and the Owner's right to reject any and all bids.

For Federally assisted contracts the advertisement shall conform to the requirements of local laws and ordinances pertaining to letting of contracts and, in addition, shall conform to the requirements of the appropriate parts of the Federal Aviation Regulations applicable to the particular contract being advertised.

1-02 PREQUALIFICATION OF BIDDERS.

- (a) When the awarding authority is the State of Illinois, each prospective bidder, prior to being considered for issuance of any proposal forms will be required to file, on forms furnished by the Department, an experience questionnaire and a confidential financial statement in accordance with the Department's Instructions for Prequalification of Contractors. The Statement shall include a complete report of the prospective bidder's financial resources and liabilities, equipment, past record and personnel, and must be submitted at least thirty (30) days prior to the scheduled opening of bids in which the Contractor is interested.

After the Department has analyzed the submitted "Contractor's Statement of Experience and Financial Condition" and related information and has determined appropriate ratings, the Department will issue to the Contractor a "Certificate of Eligibility". The Certificate will permit the Contractor to obtain proposal forms and plans for any Department of Transportation letting on work which is within the limits of the Contractor's potential as indicated on his "Certificate of Eligibility", subject to any limitations due to present work under contract or pending award as determined from the Contractor's submitted "Affidavit of Availability". Bidders intending to consistently submit proposals shall submit a "Contractor's Statement of Experience and Financial Condition" at least once a year. However, prequalification may be changed during that period upon the submission of additional favorable reports or upon reports of unsatisfactory performance.

Before a proposal is issued, the prospective bidder will be required to furnish an "Affidavit of Availability" indicating the location and amount of all uncompleted work under contract, or pending award, either as principal or subcontractor, as well as a listing of all subcontractors and value of work sublet to others. The prospective bidder may be requested to file a statement showing the amount and condition of equipment which will be available.

Before an award is made, the bidder may be required to furnish an outline of his plans for conducting the work.

- (b) When the awarding authority for contract construction work is the County Board of a county; the Council, the City Council, or the President and Board of Trustees of a city, village or town, each prospective bidder, in evidence of his competence, shall furnish the awarding authority as a prerequisite to the release of proposal forms by the awarding authority, a certified or photostatic copy of a "Certificate of Eligibility" issued by the Department of Transportation, in accordance with Section 1-02(a).

The two low bidders must file within 24 hours after the letting a sworn affidavit, in triplicate, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work, using the blank form made available for this affidavit. One copy shall be filed with the awarding authority and two copies with the District Highway Office.

1-03 CONTENTS OF PROPOSAL FORMS. Upon request, the Department will furnish the prequalified bidders a proposal form. This form will state the location and description of the contemplated construction and will show the estimate of the various quantities and kinds of work to be performed or materials to be furnished, and will have a schedule of items for which unit bid prices are invited. The proposal form will state the time in which work must be completed, the amount of the proposal guaranty, labor requirements, and date, time and place of the opening of proposals. The form will also include any special provisions or requirements which vary from or are not contained in these specifications.

All papers bound with or attached to the proposal form are considered a part thereof and must not be detached or altered when the proposal is submitted. Any addenda officially issued by the Department, will be considered a part of the proposal whether attached or not.

For Federally assisted contracts, the proposal shall conform to the requirements of local laws and ordinances pertaining to letting of contracts and, in addition, shall conform to the requirements of the appropriate parts of the Federal Aviation Regulations pertaining to the particular contract being let.

1-04 ISSUANCE OF PROPOSAL FORMS. The Department shall refuse to issue a proposal form for any of the following reasons:

- (a) Lack of competency and adequate machinery, plant and other equipment, as revealed by the financial statement and experience questionnaires required under Section 1-02(a).
- (b) Uncompleted work which, in the judgment of the Department, might hinder or prevent the prompt completion of additional work if awarded.
- (c) False information provided on a bidder's "Affidavit of Availability".
- (d) Failure to pay, or satisfactorily settle, all bills due for labor and material on former contracts in force at the time of issuance of proposal forms.
- (e) Failure to comply with any prequalification regulations of the Department.
- (f) Default under previous contracts.
- (g) Unsatisfactory performance record as shown by past work for the Department, judged from the standpoint of workmanship and progress.
- (h) When the Contractor is suspended from eligibility to bid at a public letting where the contract is awarded by, or require approval of, the Department.
- (i) When any agent, servant, or employee of the prospective bidder currently serves as a member, employee, or agent of a governmental body that is financially involved in the proposed work.
- (j) When any agent, servant, or employee of the prospective bidder has participated in the preparation of plans or specifications for the proposed work.

1-05 INTERPRETATION OF QUANTITIES IN BID SCHEDULE. An estimate of quantities of work to be done and materials to be furnished under these specifications is given in the proposal. It is the result of careful calculations and is believed to be correct. It is given only as a basis for comparison of proposals and the award of the contract. The Owner does not expressly or by implication agree that the actual quantities involved will correspond exactly therewith; nor shall the bidder plead misunderstanding or deception because of such estimates of quantities, or of the character, location, or other conditions pertaining to the work. Payment to the Contractor will be made only for the actual quantities of work performed or materials furnished in accordance with the plans and specifications. It is understood that the quantities may be increased or decreased as provided in the subsection titled ALTERATION OF WORK AND QUANTITIES of Section 20 of the Illinois Standard Specifications for Construction of Airports without in any way invalidating the unit bid prices.

1-06 EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE. The bidder is expected to carefully examine the site of the proposed work, the proposal, plans, specifications, and contract forms. He shall satisfy himself as to the character, quality, and quantities of work to be performed, materials to be furnished, and as to the requirements of the proposed contract. The submission of a proposal shall be prima facie evidence that the bidder has made such examination and is satisfied as to the conditions to be encountered in performing the work and as to the requirements of the proposed contract, plans, and specifications.

Boring logs, underground utilities and other records of subsurface investigations and tests are available for inspection of bidders. It is understood and agreed that such subsurface information, whether included in the plans, specifications, or otherwise made available to the bidder, was obtained and is intended for the Owner's design and estimating purposes only. Such information has been made available for the convenience of all bidders. It is further understood and agreed that each bidder is solely responsible for all assumptions, deductions, or conclusions which he may make or obtain from his examination of the boring logs and other records of subsurface investigations and tests that are furnished by the Owner.

1-07 PREPARATION OF THE PROPOSAL. The bidder shall submit his proposal on the form furnished by the Department. The proposal shall be executed property, and bids shall be made for all items indicated in the proposal form, except that when alternate bids are asked, a bid on more than one alternate for each item is not required, unless otherwise provided. The bidder shall indicate, in figures, a unit price for each of the separate items called for in the proposal; he shall show the products of the respective quantities and unit prices in the column provided for that purpose, and the gross sum shown in the place indicated in the proposal shall be the summation of said products. All writing shall be with ink or typewriter, except the signature of the bidder which shall be written with ink.

If the proposal is made by an individual, his name and business address shall be shown. If made by a firm or partnership, the name and business address of each member of the firm or partnership shall be shown. If made by a corporation, the proposal shall show the names, titles, and business address of the president, secretary, and treasurer, and the seal of the corporation shall be affixed and attested by the secretary.

The proposal shall be issued to a prequalified bidder in the same name and style as the financial statement used for prequalification and shall be submitted in like manner.

1-08 REJECTION OF PROPOSALS. The Department reserves the right to reject proposals for any of the conditions in Article 1-04 or for any of the following reasons:

- (a) More than one proposal for the same work from an individual, firm, partnership, or corporation under the same or different names.
- (b) Evidence of collusion among bidders.
- (c) Unbalanced proposals in which the prices for some items are obviously out of proportion to the prices for other items.
- (d) If the proposal does not contain a unit price for each pay item listed except in the case of authorized alternate pay items or lump sum pay items.
- (e) If the proposal is other than that furnished by the Department; or if the form is altered or any part thereof is detached.
- (f) If there are omissions, erasures, alterations, unauthorized additions, conditional or alternate bids, or irregularities of any kind which may tend to make the proposal incomplete, indefinite, or ambiguous as to its meaning.
- (g) If the bidder adds any provisions reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.
- (h) If the proposal is not accompanied by the proper proposal guaranty.
- (i) If the proposal is prepared with other than ink or typewriter.
- (j) If the proposal is submitted in any other name other than that to whom it was issued by the Department.

1-09 PROPOSAL GUARANTY. Each Proposal shall be accompanied by either a bid bond on the Department of Transportation, Division of Aeronautics form contained in the proposal, executed by a corporate surety company satisfactory to the Department or by a bank cashier's check or a properly certified check for not less than 5 percent of the amount bid.

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

1-10 DELIVERY OF PROPOSALS. Each proposal should be submitted in a special envelope furnished by the Department. The blank spaces on the envelope shall be filled in correctly to clearly indicate its contents. When an envelope other than the special one furnished by the Department is used, it shall be of the same general size and shape and be similarly marked to clearly indicate its contents. When sent by mail, the sealed proposal shall be addressed to the Department at the address and in care of the official in whose office the bids are to be received. All proposals shall be filed prior to the time and place specified in the Notice to Bidders. Proposals received after the time for opening of bids will be returned to the bidder unopened.

1-11 WITHDRAWAL OF PROPOSALS. Permission will be given a bidder to withdraw a proposal if he makes his request in writing or by telegram before the time for opening proposals. If a proposal is withdrawn, the bidder will not be permitted to resubmit this proposal at the same letting. With the approval of the Engineer, a bidder may withdraw a proposal and substitute a new proposal prior to the time of opening bids.

1-12 PUBLIC OPENING OF PROPOSALS. Proposals will be opened and read publicly at the time and place specified in the Notice to Bidders. Bidders, their authorized agents, and other interested parties are invited to be present.

1-13 DISQUALIFICATION OF BIDDERS. A bidder shall be considered disqualified for any of the following reasons:

- (a) Submitting more than one proposal from the same partnership, firm, or corporation under the same or different name.
- (b) Evidence of collusion among bidders. Bidders participating in such collusion shall be disqualified as bidders for any future work of the Owner.
- (c) If the bidder is considered to be in "default" for any reason specified in the Subsection 1-04 titled ISSUANCE OF PROPOSAL FORMS of this section.

1-14 WORKER'S COMPENSATION INSURANCE. Prior to the approval of his contract by the Division, the Contractor shall furnish to the Division certificates of insurance covering Worker's Compensation, or satisfactory evidence that this liability is otherwise taken care of in accordance with Section 4.(a) of the "Worker's Compensation Act of the State of Illinois" as amended.

SECTION 2

AWARD AND EXECUTION OF CONTRACT

2-01 CONSIDERATION OF PROPOSALS. After the proposals are publicly opened and read, they will be compared on the basis of the summation of the products obtained by multiplying the estimated quantities shown in the proposal by the unit bid prices. In the event of a discrepancy between unit bid prices and extensions, the unit bid price shall govern.

Until the award of a contract is made, the Owner reserves the right to reject a bidder's proposal for any of the following reasons:

- (a) If the proposal is irregular as specified in the subsection titled REJECTION OF PROPOSALS of Section 1.
- (b) If the bidder is disqualified for any of the reasons specified in the subsection titled DISQUALIFICATION OF BIDDERS of Section 1.

In addition, until the award of a contract is made, the Owner reserves the right to reject any or all proposals; waive technicalities, if such waiver is in the best interest of the Owner and is in conformance with applicable State and Local laws or regulations pertaining to the letting of construction contracts; advertise for new proposals; or proceed with the work otherwise.

2-02 AWARD OF CONTRACT. The award of contract will be made within 60 calendar days after the opening of proposals to the lowest responsible and qualified bidder whose proposal complies with all the requirements prescribed. The successful bidder will be notified by letter, that his bid has been accepted, and that he has been awarded the contract.

If a contract is not awarded within 60 days after the opening of proposals, a bidder may file a written request with the Division for the withdrawal of his bid and the Division will permit such withdrawal.

For Federally assisted contracts, unless otherwise specified in this subsection, no award shall be made until the FAA has concurred in the Owner's recommendation to make such award and has approved the Owner's proposal contract to the extent that such concurrence and approval are required by Federal Regulations.

2-03 CANCELLATION OF AWARD. The Division reserves the right to cancel the award without liability to the bidder at any time before a contract has been fully executed by all parties and is approved by the Owner in accordance with the subsection titled APPROVAL OF CONTRACT of this section. The Division at the time of cancellation will return the proposal guaranty.

2-04 RETURN OF PROPOSAL GUARANTY. The proposal guaranties of all except the two lowest bidders will be returned promptly after the proposals have been checked, tabulated, and the relation of the proposals established. Proposal guaranties of the two lowest bidders will be returned as soon as the Construction Contract, Performance Bonds, and Payment Bonds of the successful bidder have been properly executed and approved.

If any other form of proposal guaranty is used, other than a bid bond, a bid bond may be substituted at the Contractor's option.

2-05 REQUIREMENT OF PERFORMANCE AND PAYMENT BONDS. The successful bidder for a contract, at the time of the execution of the contract, shall deposit with the Division separate performance and payment bonds each for the full amount of the contract. The form of the bonds shall be that furnished by the Division, and the sureties shall be acceptable to the Division.

2-06 EXECUTION OF CONTRACT. The successful bidder shall sign (execute) the Contract and shall return the signed Contract to the Owner (Sponsor) for signature (execution) and subsequently return all copies to the Division. The fully executed surety bonds specified in the subsection title REQUIREMENTS OF PERFORMANCE AND PAYMENT BONDS of this section will be forwarded to the Division within 15 days of the date mailed or otherwise delivered to the successful bidder. If the Contract and Bonds are mailed, special handling is recommended.

If the bidder to whom award is to be made is a corporation organized under the laws of a State other than Illinois, the bidder shall furnish the Division a copy of the corporation's certificate of authority to do business in the State of Illinois with the return of the executed contract and bond. Failure to furnish such evidence of a certificate of authority within the time required will be considered as just cause for the annulment of the award and the forfeiture of the proposal guaranty to the State, not as a penalty, but in payment of liquidated damages sustained as a result of such failure.

2-07 APPROVAL OF CONTRACT. Upon receipt of the contract and bonds that have been executed by the successful bidder, the Owner shall complete the execution of the contract in accordance with local laws or ordinances, and return the contract to the Division for approval and execution by the Division. Delivery of the fully executed contract to the Contractor shall constitute the Department's approval to be bound by the successful bidder's proposal and the terms of the contract.

2-08 FAILURE TO EXECUTE CONTRACT. If the contract is not executed by the Division within 15 days following receipt from the bidder of the properly executed contracts and bonds, the bidder shall have the right to withdraw his bid without penalty.

Failure of the successful bidder to execute the contract and file acceptable bonds within 15 days after the contract has been mailed to him shall be just cause for the cancellation of the award and the forfeiture of the proposal guaranty which shall become the property of the State, not as a penalty, but as liquidation of damages sustained.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DIVISION OF AERONAUTICS

The requirements of the following provisions written for Federally-assisted construction contracts, including all goals and timetables and affirmative action steps, shall also apply to all State-funded construction contracts awarded by the Illinois Department of Transportation.

NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.

2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

APPENDIX A

The following goal for female utilization in each construction craft and trade shall apply to all Contractors holding Federal and federally assisted construction contracts and subcontracts in excess of \$10,000. The goal is applicable to the Contractor's total on-site construction workforce, regardless of whether or not part of that workforce is performing work on a Federal, federally assisted or nonfederally related construction contract or subcontract.

AREA COVERED (STATEWIDE)

Goals for Women apply nationwide.

GOAL

	Goal (percent)
Female Utilization.....	... 6.9

APPENDIX B

Until further notice, the following goals for minority utilization in each construction craft and trade shall apply to all Contractors holding Federal and federally-assisted construction contracts and subcontracts in excess of \$10,000. to be performed in the respective geographical areas. The goals are applicable to the Contractor's total on-site construction workforce, regardless of whether or not part of that workforce is performing work on a Federal, federally-assisted or nonfederally related construction contract or subcontract.

<u>Economic Area</u>	<u>Goal (percent)</u>
056 Paducah, KY:	
Non-SMSA Counties -	5.2
IL - Hardin, Massac, Pope	
KY - Ballard, Caldwell, Calloway, Carlisle, Crittenden,	
Fulton, Graves, Hickman, Livingston, Lyon, McCracken, Marshall	

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<u>Economic Area</u>	<u>Goal (percent)</u>
080 Evansville, IN:	
Non-SMSA Counties -	3.5
IL - Edwards, Gallatin, Hamilton, Lawrence, Saline, Wabash, White	
IN - Dubois, Knox, Perry, Pike, Spencer	
KY - Hancock, Hopkins, McLean, Mublenberg, Ohio, Union, Webster	
081 Terre Haute, IN:	
Non-SMSA Counties -	2.5
IL - Clark, Crawford	
IN - Parke	
083 Chicago, IL:	
SMSA Counties:	19.6
1600 Chicago, IL -	
IL - Cook, DuPage, Kane, Lake, McHenry, Will	
3740 Kankakee, IL -	9.1
IL - Kankakee	
Non-SMSA Counties	18.4
IL - Bureau, DeKalb, Grundy, Iroquois, Kendall, LaSalle, Livingston, Putnam	
IN - Jasper, Laporte, Newton, Pulaski, Starke	
084 Champaign - Urbana, IL:	
SMSA Counties:	
1400 Champaign - Urbana - Rantoul, IL -	7.8
IL - Champaign	
Non-SMSA Counties -	4.8
IL - Coles, Cumberland, Douglas, Edgar, Ford, Piatt, Vermilion	
085 Springfield - Decatur, IL:	
SMSA Counties:	
2040 Decatur, IL -	7.6
IL - Macon	
7880 Springfield, IL -	4.5
IL - Mendard, Sangamon	
Non-SMSA Counties	4.0
IL - Cass, Christian, Dewitt, Logan, Morgan, Moultrie, Scott, Shelby	
086 Quincy, IL:	
Non-SMSA Counties	3.1
IL - Adams, Brown, Pike	
MO - Lewis, Marion, Pike, Ralls	
087 Peoria, IL:	
SMSA Counties:	
1040 Bloomington - Normal, IL -	2.5
IL - McLean	

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APPENDIX B (CONTINUED)

<u>Economic Area</u>	<u>Goal (percent)</u>
6120 Peoria, IL - IL - Peoria, Tazewell, Woodford	4.4
Non-SMSA Counties - IL - Fulton, Knox, McDonough, Marshall, Mason, Schuyler, Stark, Warren	3.3
088 Rockford, IL: SMSA Counties: 6880 Rockford, IL - IL - Boone, Winnebago	6.3
Non-SMSA Counties - IL - Lee, Ogle, Stephenson	4.6
098 Dubuque, IA: Non-SMSA Counties - IL - JoDaviess IA - Atlamakee, Clayton, Delaware, Jackson, Winnesheik WI - Crawford, Grant, Lafayette	0.5
099 Davenport, Rock Island, Moline, IA - IL: SMSA Counties: 1960 Davenport, Rock Island, Moline, IA - IL - IL - Henry, Rock Island IA - Scott	4.6
Non-SMSA Counties - IL - Carroll, Hancock, Henderson, Mercer, Whiteside IA - Clinton, DesMoines, Henry, Lee, Louisa, Muscatine MO - Clark	3.4
107 St. Louis, MO: SMSA Counties: 7040 St. Louis, MO - IL - IL - Clinton, Madison, Monroe, St. Clair MO - Franklin, Jefferson, St. Charles, St. Louis, St. Louis City	14.7
Non-SMSA Counties - IL - Alexander, Bond, Calhoun, Clay, Effingham, Fayette, Franklin, Greene, Jackson, Jasper, Jefferson, Jersey, Johnson, Macoupin, Marion, Montgomery, Perry, Pulaski, Randolph, Richland, Union, Washington, Wayne, Williamson MO - Bollinger, Butler, Cape Girardeau, Carter, Crawford, Dent, Gasconade, Iron, Lincoln, Madison, Maries, Mississippi, Montgomery, Perry, Phelps, Reynolds, Ripley, St. Francois, St. Genevieve, Scott, Stoddard, Warren, Washington, Wayne	11.4

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These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally assisted) performed in the covered area. If the Contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the Contractor also is subject to the goals for both its federally involved and nonfederally involved construction.

The Contractor's compliance with Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the provisions and specifications set forth in its federally assisted contracts, and its efforts to meet the goals established for the geographical area where the contract resulting from this solicitation is to be performed. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Illinois Division of Aeronautics will provide written notification to the Director of the Office of Federal Contract Compliance Programs within 10 working days of award of any construction contract and/or subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. This notification will list the name, address and telephone number of the subcontractor; employer identification number; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the contract is to be performed.

4. As used in this Notice, and in the contract resulting from this solicitation, the "covered area" is the entire State of Illinois for the goal set forth in APPENDIX A and the county or counties in which the work is located for the goals set forth in APPENDIX B.

STANDARD FEDERAL EQUAL EMPLOYMENT
OPPORTUNITY CONSTRUCTION CONTRACT
SPECIFICATIONS (EXECUTIVE ORDER 11246)

1. As used in these specifications:
 - a) "Covered area" means the geographical area described in the solicitation from which this contract resulted;
 - b) "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;
 - c) "Employer identification number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941;
 - d) "Minority" includes:
 - (i) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
 - (ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race);
 - (iii) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
 - (iv) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).
2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000. the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.

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3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or Subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or Subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.
4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7a through p of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered Construction Contractors performing construction work in geographical areas where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. Goals are published periodically in the Federal Register in notice form, and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting officers. The Contractor is expected to make substantially uniform progress toward its goals in each craft during the period specified.
5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.
6. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.
7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:
 - a) Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working as such sites or in such facilities.
 - b) Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
 - c) Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractors may have taken.

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- d) Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
- e) Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7b above.
- f) Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreements; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- g) Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with onsite supervisory personnel such as Superintendents, General Foreman, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
- h) Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
- i) Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
- j) Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's workforce.
- k) Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
- l) Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
- m) Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
- n) Ensure that all facilities and company activities are nonsegregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
- o) Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction Contractors and suppliers, including circulation of solicitations to minority and female Contractor associations and other business associations.

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- p) Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a through p). The efforts of a Contractor association, joint Contractor-union, Contractor-community, or other similar group of which the Contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7a through p of these Specifications provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female workforce participation makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.
 9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specified minority group of women is underutilized).
 10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.
 11. The Contractor shall not enter into any Subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
 12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
 13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.
 14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy his requirement, Contractors shall not be required to maintain separate records.
 15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

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ANNUAL EEO-1 REPORT TO JOINT REPORTING COMMITTEE AS REQUIRED AT

41 CFR 60-1.7(a)

Any Contractor having a Federal contract of \$50,000 or more and 50 or more employees is required to file annual compliance reports on Standard Form 100 (EEO-1) with the Joint Reporting Committee in accordance with the instructions provided with the form. The Contractor will provide a copy of such a report to the contracting agency within 30 days after the award of a contract.

The Contractor shall require its subcontractors to file an SF 100 within 30 days after award of the subcontract if (1) it is not exempt from the provisions of these regulations in accordance with 60-1.5, (2) has 50 or more employees, (3) first tier subcontractor, and (4) has a subcontract amounting to \$50,000 or more.

Subcontractors below the first tier which perform construction work at the site of construction shall be required to file such a report if (1) it is not exempt from the provisions of these regulations in accordance with 60-1.5, (2) has 50 or more employees and has a subcontract amounting to \$50,000 or more.

The SF 100 is available at the following address:

Joint Reports Committee
EEOC - Survey Division
1801 "L" Street N.W.
Washington, D.C. 20750

Phone (202) 663-4968

DISADVANTAGED BUSINESS POLICY

I. NOTICE

This proposal contains the special provision entitled "Required Disadvantaged Business Participation." Inclusion of this Special Provision in this contract satisfies the obligations of the Department of Transportation under federal law as implemented by 49 CFR 23 and under the Illinois "Minority and Female Business Enterprise Act."

II. POLICY

It is public policy that the businesses defined in 49 CFR Part 23 shall have the maximum opportunity to participate in the performance of contracts financed in whole or in part with State or Federal funds. Consequently, the requirements of 49 CFR Part 23 apply to this contract.

III. OBLIGATION

The Contractor agrees to ensure that the businesses defined in 49 CFR Part 23 have the maximum opportunity to participate in the performance of this contract. In this regard, the Contractor shall take all necessary and reasonable steps, in accordance with 49 CFR Part 23, to ensure that the said businesses have the maximum opportunity to compete for and perform portions of this contract. The Contractor shall not discriminate on the basis of race, color, national origin, or sex in the selection and retention of subcontractors, including procurement of materials and leases of equipment.

The Contractor shall include the above Policy and Obligation statements of this Special Provision in every subcontract, including procurement of materials and leases of equipment.

IV. DBE/WBE CONTRACTOR FINANCE PROGRAM

On contracts where a loan has been obtained through the DBE/WBE Contractor Finance Program, the Contractor shall cooperate with the Department by making all payments due to the DBE/WBE Contractor by means of a two-payee check payable to the Lender (Bank) and the Borrower (DBE/WBE Contractor).

V. BREACH OF CONTRACT

Failure to carry out the requirements set forth above and in the Special Provision shall constitute a breach of contract and may result in termination of the contract or liquidated damages as provided in the special provision.

(Rev. 9/21/92)

State of Illinois
Department of Transportation

SPECIAL PROVISION
FOR
DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION

- I. FEDERAL OBLIGATION: The Department of Transportation, as a recipient of federal financial assistance, is required to take all necessary and reasonable steps to ensure nondiscrimination in the award and administration of contracts. Consequently, the federal regulatory provisions of 49 CFR part 26 apply to this contract concerning the utilization of disadvantaged business enterprises. This Special Provision will also be used by the Department to satisfy the requirements of the Business Enterprise for Minorities, Females, and Persons with Disabilities Act, 30 ILCS 575. For the purposes of this Special Provision, a disadvantaged business enterprise (DBE) means a business certified by the Department in accordance with the requirements of 49 CFR part 26 and listed in the DBE Directory or most recent addendum.
- II. CONTRACTOR ASSURANCE: The Contractor makes the following assurance and agrees to include the assurance in each subcontract that the Contractor signs with a subcontractor:
- The contractor, subrecipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of federally-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate.
- III. 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 is 22.77% of 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 this 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.
- IV. 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 23.0% of the work. This percentage is set as the DBE participation goal for this contract. Consequently, in addition to the other award criteria established for this contract, the Department will award this contract to a bidder who makes a good faith effort to meet this goal of DBE participation in the performance of the work. A bidder makes a good faith effort for award consideration if either of the following is done in accordance with the procedures set forth in this Special Provision:
- A. The bidder documents that firmly committed DBE participation has been obtained to meet the goal; or
- B. The bidder documents that a good faith effort has been made to meet the goal, even though the effort did not succeed in obtaining enough DBE participation to meet the goal.

- V. DBE LOCATOR REFERENCES: Bidders may consult the DBE Directory as a reference source for DBE companies certified by the Department. In addition, the Department maintains a letting and item specific DBE locator information system whereby DBE companies can register their interest in providing quotes on particular bid items advertised for letting. Information concerning DBE companies willing to quote work for particular contracts may be obtained by contacting the Department's Bureau of Small Business Enterprises at telephone number (217)785-4611, or by visiting the Department's web site at www.dot.state.il.us.
- VI. BIDDING PROCEDURES: Compliance with the bidding procedures of this Special Provision is required prior to the award of the contract and the failure of the as-read low bidder to comply will render the bid nonresponsive.
- A. In order to assure the timely award of the contract, the as-read low bidder must submit a Disadvantaged Business Utilization Plan on Department form SBE 2026 within seven (7) working days after the date of letting. To meet the seven (7) day requirement, the bidder may send the Plan by certified mail or delivery service within the seven (7) working day period. If a question arises concerning the mailing date of a Plan, the mailing date will be established by the U.S. Postal Service postmark on the original certified mail receipt from the U.S. Postal Service or the receipt issued by a delivery service. It is the responsibility of the as-read low bidder to ensure that the postmark or receipt date is affixed within the seven (7) working days if the bidder intends to rely upon mailing or delivery to satisfy the submission day requirement. The Plan is to be submitted to the Department of Transportation, Bureau of Small Business Enterprises, Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764 (Telefax: (217) 785-1524). It is the responsibility of the bidder to obtain confirmation of telefax delivery. The Department will not accept a Utilization Plan if it does not meet the seven (7) day submittal requirement, and the bid will be declared nonresponsive. In the event the bid is declared nonresponsive due to a failure to submit a Plan or failure to comply with the bidding procedures set forth herein, the Department may elect to cause the forfeiture of the penal sum of the bidder's proposal guaranty, and may deny authorization to bid the project if re-advertised for bids. The Department reserves the right to invite any other bidder to submit a Utilization Plan at any time for award consideration or to extend the time for award.
- B. The Utilization Plan shall indicate that the bidder either has obtained sufficient DBE participation commitments to meet the contract goal or has not obtained enough DBE participation commitments in spite of a good faith effort to meet the goal. The Utilization Plan shall further provide the name, telephone number and telefax number of a responsible official of the bidder designated for purposes of notification of plan approval or disapproval under the procedures of this Special Provision.
- C. The Utilization Plan shall include a DBE Participation Commitment Statement, Department form SBE 2025, for each DBE proposed for the performance of work to achieve the contract goal. The signatures on these forms must be original signatures. All elements of information indicated on the said form shall be provided, including but not limited to the following:
1. The name and address of each DBE to be used;
 2. A description, including pay item numbers, of the commercially useful work to be done by each DBE;
 3. The price to be paid to each DBE for the identified work specifically stating the quantity, unit price and total subcontract price for the work to be completed by the DBE. If partial pay items are to be performed by the DBE, indicate the portion of each item, a unit price where appropriate and the subcontract price amount;
 4. A commitment statement signed by the bidder and each DBE evidencing availability and intent to perform commercially useful work on the project; and
 5. If the bidder is a joint venture comprised of DBE firms and non-DBE firms, the plan must also include a clear identification of the portion of the work to be performed by the DBE partner(s).

D. The contract will not be awarded until the Utilization Plan submitted by the bidder is approved. The Utilization Plan will be approved by the Department if the Plan commits sufficient commercially useful DBE work performance to meet the contract goal. The Utilization Plan will not be approved by the Department if the Plan does not commit sufficient DBE performance to meet the contract goal unless the bidder documents that it made a good faith effort to meet the goal. The good faith procedures of Section VIII of this special provision apply. If the Utilization Plan is not approved because it is deficient in a technical matter, unless waived by the Department, the bidder will be notified and will be allowed no less than a five (5) working day period in order to cure the deficiency.

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

A. DBE as the Contractor: 100% goal credit for that portion of the work performed by the DBE's own forces, including the cost of materials and supplies. Work that a DBE subcontracts to a non-DBE firm does not count toward the DBE goals.

B. DBE as a joint venture Contractor: 100% goal credit for that portion of the total dollar value of the contract equal to the distinct, clearly defined portion of the work performed by the DBE's own forces.

C. DBE as a subcontractor: 100% goal credit for the work of the subcontract performed by the DBE's own forces, including the cost of materials and supplies. Work that a DBE subcontractor in turn subcontracts to a non-DBE firm does not count toward the DBE goal.

D. DBE as a trucker: 100% goal credit for trucking participation provided the DBE is responsible for the management and supervision of the entire trucking operation for which it is responsible. At least one truck owned, operated, licensed and insured by the DBE must be used on the contract. Credit will be given for the full value of all such DBE trucks operated using DBE employed drivers. Goal credit will be limited to the value of the reasonable fee or commission received by the DBE if trucks are leased from a non-DBE company.

E. DBE as a material supplier:

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

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

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

(b) A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBE companies is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also, the ability or desire of a prime contractor to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Prime contractors are not, however, required to accept higher quotes from DBE companies if the price difference is excessive or unreasonable.
 5. Not rejecting DBE companies as being unqualified without sound reasons based on a thorough investigation of their capabilities. The contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the contractor's efforts to meet the project goal.
 6. Making efforts to assist interested DBE companies in obtaining bonding, lines of credit, or insurance as required by the recipient or contractor.
 7. Making efforts to assist interested DBE companies in obtaining necessary equipment, supplies, materials, or related assistance or services.
 8. Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, state, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBE companies.
- B. If the Department determines that the Contractor has made a good faith effort to secure the work commitment of DBE companies to meet the contract goal, the Department will award the contract provided that it is otherwise eligible for award. If the Department determines that a good faith effort has not been made, the Department will notify the bidder of that preliminary determination by contacting the responsible company official designated in the Utilization Plan. The preliminary determination shall include a statement of reasons why good faith efforts have not been found, and may include additional good faith efforts that the bidder could take. The notification will

designate a five (5) working day period during which the bidder shall take additional efforts. The bidder is not limited by a statement of additional efforts, but may take other action beyond any stated additional efforts in order to obtain additional DBE commitments. The bidder shall submit an amended Utilization Plan if additional DBE commitments to meet the contract goal are secured. If additional DBE commitments sufficient to meet the contract goal are not secured, the bidder shall report the final good faith efforts made in the time allotted. All additional efforts taken by the bidder will be considered as part of the bidder's good faith efforts. If the bidder is not able to meet the goal after taking additional efforts, the Department will make a pre-final determination of the good faith efforts of the bidder and will notify the designated responsible company official of the reasons for an adverse determination.

- C. The bidder may request administrative reconsideration of a pre-final determination adverse to the bidder within the five (5) working days after the notification date of the determination by delivering the request to the Department of Transportation, Division of Aeronautics, 1 Langhorne Bond Drive, Capital Airport, Springfield, IL 62707-8415 (Telefax: 217-785-4533). 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.

IX. 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 Division of Aeronautics. All requests for amendment to the Utilization Plan shall be submitted to the Department of Transportation, Division of Aeronautics, 1 Langhorne Bond Drive, Capital Airport, Springfield, IL 62707-8415. Telephone number (217) 785-8514. Telefax number (217) 785-4533.
- 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 Division of Aeronautics 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 Division and provide a full accounting of the efforts undertaken to obtain substitute DBE participation. The Division will evaluate the good faith efforts in light of all circumstances surrounding the performance status of the contract, and determine whether the contract goal should be amended.

- C. The Contractor shall maintain a record of payments for work performed to the DBE participants. The records shall be made available to the Department for inspection upon request. After the performance of the final item of work or delivery of material by a DBE and final payment therefor to the DBE by the Contractor, but not later than thirty (30) calendar days after payment has been made by the Department to the Contractor for such work or material without regard to any retainage withheld by the Department, the Contractor shall submit a DBE Payment Report on Department form SBE 2115 to the Division's Chief 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.

WORKERS' COMPENSATION INSURANCE

Prior to the execution of his construction contract by the Illinois Department of Transportation, Division of Aeronautics, hereinafter referred to as "Division", the Contractor shall furnish to the Division certificates of insurance covering Workers' Compensation, or satisfactory evidence that this liability is otherwise taken care of in accordance with Section 4.(a) of the "Workers' Compensation Act of the State of Illinois" as amended.

Such insurance, or other means of protection as herein provided, shall be kept in force until all work to be performed under the terms of the contract has been completed and accepted in accordance with the specifications, and it is hereby understood and agreed that the maintenance of such insurance or other protection, until acceptance of the work by the Division is a part of the contract. Failure to maintain such insurance, cancellation by the Industrial Commission of its approval of such other means of protection as might have been elected, or any other act which results in lack of protection under the said "Workers' Compensation Act" may be considered as a breach of the contract.

SPECIAL PROVISION FOR DOMESTIC SOURCE FOR STEEL

Control of Materials: All steel products, as defined by the Illinois Steel Products Procurement Act, incorporated into this project shall be manufactured or produced in the United States and, in addition, shall be domestically fabricated. The Contractor shall obtain from the steel producer and/or fabricator, in addition to the mill analysis, a certification that all steel products meet these domestic source requirements.

SECTION III

ST. LOUIS REGIONAL AIRPORT

ALTON, ILLINOIS

T-HANGAR ENTRANCE ROAD

ILLINOIS PROJECT NO. ALN-3355

Prepared By:



December 15, 2004

RECURRING SPECIAL PROVISIONS

The following RECURRING SPECIAL PROVISIONS indicated by an “X” are Applicable to this contract and are included by reference:

<u>Check Sheet</u>	<u>No.</u>	<u>Item No.</u>	<u>Page No.</u>
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	2	AR106000 Apron Lighting	160
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	6	AR150560 Temporary Threshold	170
	7	AR152540 Soil Stabilization Fabric	173
X	8	AR156000 Erosion Control	175
	9	AR156513 Separation Fabric	180
	10	AR156540 Riprap	182
X	11	AR201001 Bituminous Base Course-Method I	185
	12	AR201002 Bituminous Base Course-Method II	193
	13	AR201661 Clean & Seal Bituminous Cracks	208
	14	AR201663 Sand Mix Crack Repair	211
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	19	AR401640 Bituminous Pavement Grooving	247
	20	AR401650 Bituminous Pavement Milling	250
	21	AR401655 Butt Joint Construction	252
	22	AR401900 Remove Bituminous Pavement	254
	23	AR501001 Portland Cement Concrete-Pavement Method I	256
	24	AR501001 Portland Cement Concrete-Pavement Method II	272
	25	AR501001 Portland Cement Concrete-Pavement Method III	293
	26	AR501115 Crack and Seat Pavement	315
	27	AR501540 PCC Pavement Grooving	318
	28	AR501550 PCC Pavement Milling	321
	29	AR501900 Remove PCC Pavement	323
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SUPPLEMENTAL SPECIFICATIONS

The following SUPPLEMENTAL SPECIFICATIONS are Applicable to this contract and are included by reference:

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AR603510	Bituminous Tack Coat	62
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AR620520	Pavement Marking-Waterborne	77
AR701515	15" RCP, Class IV	105
AR701518	18" RCP, Class IV	105
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FOREWORD

These Special Provisions, together with applicable Standard Specifications, Rules and Regulations, Contract Requirements for Airport Improvement Projects, Payroll Requirements and Minimum Wage Rates, which are hereto attached or which by reference are herein incorporated, cover the requirements of the State of Illinois, Department of Transportation (IDOT), Division of Aeronautics (Division) for the following improvement project at the St. Louis Regional Airport, Alton, Illinois including:

SCOPE OF WORK

This project shall consist of the construction of an access road to the existing T-hangars, installation of 8-in. waterline and constructing two detention ponds, and all associated work to complete the project.

GOVERNING SPECIFICATIONS AND RULES AND REGULATIONS

The Standard Specifications for Construction of Airport, Illinois Department of Transportation, Division of Aeronautics, adopted January, 1985 and the Supplemental Specifications and Recurring Special Provisions, adopted July 1, 2004, shall govern the project, except as otherwise revised or noted in these Special Provisions. All references to IDOT Specifications refer to Standard Specifications for Road and Bridge Construction, Illinois Department of Transportation, adopted January 1, 2002, as revised. In the event of inconsistencies between the Standard Specifications and the Special Provisions, the Special Provisions shall govern.

DIVISION I

SECTION 10 **DEFINITION OF TERMS**

10-54 Resident Engineer. Revise the first sentence as follows:

“The representative of the Owner, whether employed directly by the Owner or employed by an engineering firm retained by the Owner, to observe, document, and test the work and acting under the supervision of the Project Engineer.”

SECTION 30 **CONTROL OF WORK**

30-08 Authority and Duties of the Resident Engineer. Revise this section as follows:

“As the direct representative of the Owner, the Resident Engineer has immediate charge of inspecting and monitoring the construction project. The Resident Engineer is authorized to inspect and/or perform tests to all or any part of the work and to the materials or manufacturer of materials to be used. The Resident Engineer is not authorized to revoke, alter, or waive any provision to the contract. The Resident Engineer is not authorized to issue instructions contrary to the Plans and Specifications. The Resident Engineer is not authorized to direct or supervise the Contractor or his Subcontractors.

The Resident Engineer is authorized to notify the Contractor or his representative of any failure of the work or materials to conform to the requirements of the contract documents, to recommend to the Engineer or Owner that non-conforming materials or work be rejected, and to recommend to the Engineer or Owner suspension of any work in question until the Engineer can make a decision on its acceptability.”

30-09 Duties of the Inspector. Revise this section to read as follows:

“The Resident Engineer and his staff will be authorized to inspect all work being performed and materials being incorporated into the project. Such inspection may extend to all or any part of the work and to the preparation, fabrication, or manufacture of materials to be used. The Resident Engineer and his staff will not be authorized to alter or waiver the provisions of the contract nor will they be authorized to issue instructions contrary to the Plans and Specifications or to direct the Contractor's work.”

30-10 Inspection of the Work. Revise the third paragraph to read as follows:

“Any work performed or materials incorporated without inspection by an authorized representative of the Engineer may be ordered removed and replaced by the Engineer at the Contractor's own expense.”

SECTION 40 **CONTROL OF MATERIALS**

40-04 Plant Inspection. Add the following to this section:

“The Resident Engineer shall have full access to the Contractors’ plant and QC/QA lab facilities for purpose of inspection of the manufacturing operation and quality control testing. For a project that includes the manufacture of bituminous concrete, the Engineer shall have use of the Contractors’ lab for acceptance testing of the cores.”

SECTION 50
LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC

50-10 Barricades, Warning Signs and Hazard Markings. Add the following paragraphs to this section:

The Contractor will notify the Airport Manager seven (7) days in advance of the commencement of work. The Contractor will provide the Engineer with a proposed schedule of his proposed construction sequences. The Project Engineer must review and approve this schedule before any construction begins.

The Contractor will be responsible for placing barricades at the locations shown on the Construction Plans or as directed by the Airport Manager. It will be the Contractor's responsibility to furnish and maintain the barricades, equipped with red steady-burning or red flashing lights, throughout the duration of this project.”

50-12 Protection and Restoration of Property. Add the following paragraphs to this section:

“The Contractor shall take special care when working in the vicinity of existing airport lighting systems so as not to damage them. Should the Contractor damage any of the lighting systems, he shall immediately repair or replace them, and make any necessary repairs to place them in working order. The cost of equipment and making the repairs will be the responsibility of the Contractor. If during the course of construction it is necessary to interrupt any light circuits, temporary cables shall be installed, as needed, to make the circuit operational.

Active pavement areas shall be kept broom clean at all times.

The Contractor shall maintain the premises in reasonably clean condition and shall not allow any sizeable accumulation of rubbish on the premises.

He shall leave the premises in broom clean condition upon completion of the project.

The Contractor shall take every precaution against fire.”

50-21 Environmental Protection. Add the following to this section:

“The Contractor will be required to minimize air pollution from dust by watering disturbed areas at whatever frequency is necessary in order to control the creation of airborne dust. The furnishing and distribution of the water will be considered as an incidental item to the contract, and no additional compensation will be allowed.”

SPECIAL CONSIDERATION SECTION
ADD THE FOLLOWING SPECIAL SECTIONS
HAUL ROUTE AND EQUIPMENT PARKING

The Contractor will use only the designated haul route and equipment parking area shown on Sheet No. 3. The Contractor's men and equipment shall not traverse outside the designated work areas to other locations on the airport. The designated haul route will be the only vehicular access to the construction site.

Because of the high requirements for airport security and safety, the following requirements must be adhered to:

All employees of the Contractor shall park their personal vehicles in the designated equipment parking and storage area. The Contractor will transport the workers from the parking areas to the work area. Only Contractor vehicles will be allowed outside of the proposed equipment storage and parking areas.

The Contractor will restore the haul route and equipment parking area upon completion of the project.

Failure to use the prescribed haul route and equipment parking area or adhere to the safety requirements will result in the suspension of work.

CONTRACTOR IDENTIFICATION

The Contractor shall be responsible for providing the workers with some type of tag or garment to identify the person as being part of the construction crew.

SCHEDULING OF OPERATIONS

The Contractor will be required to submit a project work schedule to the State of Illinois, Division of Aeronautics, and to the Resident Engineer showing proposed sequences of work.

In the event that other construction projects are in progress at the airport at the same time as this project, the Contractor will be required to cooperate with all other Contractors and the Airport Manager in the coordination of the work.

The Contractor shall not be entitled to any extra compensation due to delays or inconveniences caused by said necessary methods, procedures, and measures to protect air traffic.

SITE INSPECTION

The Contractor shall be responsible for an on-site inspection prior to submitting a bid on this project. Upon receipt of a bid, it shall be assumed that the Contractor is fully familiar with the construction site.

ITEM AR106511
TYPE A AREA LIGHT POLE W/1 FIXTURE

DESCRIPTION

This item shall consist of the furnishing and installation of roadway light poles with one (1) fixture per pole along the proposed T-Hangar access road, complete, in-place, in accordance with the details shown on the Construction Plans.

Included in this item shall be all excavation, backfilling, and restoration required for the construction of the concrete foundation, the furnishing of all materials (including forms) necessary for the concrete foundations, including anchor bolts, reinforcing, and conduit, the furnishing and installation of the light pole, light fixtures, ballasts, lamps, mounting bracket, ground rod, connections and ground wire, all wiring from the pole base to the respective light fixtures, fusing, and surge arresters, all electrical connections, the T-Hangar access road lighting controller, the testing of the installation, and all other incidentals necessary to place the lights in operation to the satisfaction of the Resident Engineer. The cable in unit duct or conduit from the lighting controller to the light poles will be paid for under Item AR108658.

MATERIALS

Steel: All steel used in the construction of this item shall be domestically produced, and the Contractor shall provide the Resident Engineer a statement certifying to this fact.

Luminaires: The pole shall have a shoebox-type architectural area light with appropriate arms and adapters to mount on the pole. The luminaire shall be a 250-watt, metal halide lamp with a quad-voltage (120/208/240/277 VAC) ballast. The luminaries will have IES Type "2" roadway segmented optics and shall have a dark bronze finish. Luminaires shall be UL-listed and be suitable for use in wet locations. **Luminaires shall additionally be IP-64 or IP-65 rated.** Luminaires shall be Lithonia Model Number, as indicated on the fixture schedule on the Plans, or an approved equivalent. Each luminaire's ballast shall have individual double-fuse kits and surge arresters installed at the base of the pole. Fuses shall be the size and type, as recommended by the respective luminaire manufacturer. All luminaires will be equipped with all hardware necessary for mounting to the pole, as indicated by the details on the Plans.

Lamps: All lamps shall be 250-watt, metal halide, as detailed on the Plans. One spare lamp shall be provided for each luminaire. Lamps shall be installed by the Contractor, just prior to testing the system, to reduce the possibility of breakage. Broken lamps shall be replaced at no additional cost to the contract. Spare lamps shall be turned over to the Airport Manager.

Ballasts: Ballasts shall be operable at 120/208/240/277 VAC, 1 phase, 60 Hz, and be capable of starting the lamps indicated herein down to a temperature of -20°F. Ballasts shall be of the high power factor constant wattage autotransformer type. Ballasts shall be an integral, but easily replaceable, part of the luminaire.

Light Poles: The proposed roadway light poles shall be 30 ft tall, round, tapered steel, hollow core with anchor-base mounting. The poles shall be provided with a handhole located approximately 18 in. above the pole base. The handhole shall include cover and ground lug and shall be of adequate size to permit access for splicing wires and installing and maintaining an in-line fuse and surge arrester in the pole base. Minimum size of the handhole shall be 4 in. by 6.5 in. Anchor bolts, nuts, washers, and bolt circle presswood template shall be included with each pole. Pole and luminaire assembly shall withstand steady 100 mph winds with 1.3 gust factor, with an EPA of 17.5 ft². The minimum wall thickness shall be 7 gauge and shall be increased, as necessary, to satisfy the design loading requirements. Poles shall be suitable for mounting the fixture, as detailed on the Plans. The poles shall be equipped with a vibration-dampener. Poles shall have a dark bronze painted finish to match luminaires.

The poles shall be Lithonia model number, as specified in the fixture schedule on the Plans with vibration-dampener, or an approved equal.

Contractor shall be responsible to verify compatibility of the lighting system luminaires, support brackets, and poles.

Light Pole Foundations: Foundations shall be as detailed on the Plans. Reinforcing steel shall be installed, as detailed on the Plans.

Anchor bolts shall be supplied by the pole manufacturer, and shall be installed according to his recommendations for the respective pole. Anchor bolts shall be “L” shaped and shall be a minimum 1.25 in. diameter, 42 in. long with 6-in. ell (hook), unless otherwise recommended by the pole manufacturer. Anchor bolts shall conform to the pole manufacturer’s recommendations.

The poles shall be erected vertically on a concrete foundation. The Contractor shall furnish and install leveling and locking nuts and required washers for mounting and plumbing the poles on the anchor bolts. All of the above hardware shall be galvanized steel. After the entire assembly has been aligned and plumbed, a grout mixture shall be forced under the base casting so that after curing, the grout will be in contact with the bottom of the base at all points. The anchor bolts and installation template shall be furnished with the poles.

Contractor shall coordinate the installation of one 2-in. galvanized rigid steel conduit elbow for power cable entrance, and one 3/4-in. or 1-in. schedule 40 or 80 PVC conduit for the grounding electrode conductor entrance.

Concrete foundation, construction, and materials shall conform to the applicable sections of Item 610 Structural Portland Cement Concrete of the Specifications. **The concrete mix design must be approved by the Division of Aeronautics prior to installation.**

Luminaire Fusing: Luminaire fusing shall be provided at the handhole at the base of the light pole. Fuses shall be the size and type as recommended by the luminaire manufacturer for the respective light fixture, and shall be installed in double-pole, in-line fuse holders, Bussmann HEY, or equivalent. Each luminaire shall be provided with separate individual fusing. Wiring runs from the base of the pole to the fixtures shall be #10 THWN minimum.

Lightning Arrester for Pole Lights: An AC surge protector shall be furnished and installed in the base of each light pole and wired in series with each respective light fixture's circuit. Surge protectors shall be suitable for use on a 240 VAC, 1 phase, 2 wire system with ground. Surge protectors shall be Edco, Inc. of Florida, Model SHA 2403 or Ditek, Model DTK-DL240. Install per manufacturer's directions.

Ground Rods: Ground rods shall be 3/4-in. diameter by 10-ft long, UL-listed, copper-clad, ground rods with 10-mil. minimum copper coating. Connections to ground rods shall be exothermic weld, Cadweld by Erico Products, Inc., Solon, Ohio or Thermoweld by Continental Industries, Inc., Tulsa, Oklahoma.

Galvanized rigid Steel Conduit: All galvanized, rigid steel conduit and couplings shall conform to Federal Specification WW-C-581 and conform to Item 110; conduit and fittings shall also conform to the requirements of UL 6 and UL 514B.

Schedule 40 PVC Conduit: Schedule 40 PVC conduit shall comply with Item 110 and the following: Conduit shall be Schedule 40 PVC, 90°C, UL-rated, or approved equal. Material shall comply with NEMA Specification TC-2 (Conduit), (Fittings UL-514), and UL-651 (Standard for rigid non-metallic conduit). The conduit and fittings shall carry a UL label (on each 10 ft length of conduit and stamped or molded on every fitting). Conduit and fittings shall be identified for type and manufacturer and shall be traceable to location of plant and date manufactured. The markings shall be legible and permanent. The conduit shall be made from polyvinyl chloride C-300 compound that includes inert modifiers to improve weather ability, heat distortion. Clean, reworked material, generated by the manufacturer's own conduit production, may be used by the same manufacturer, provided the end products meet the requirements of this Specification. The conduit and fittings shall be homogenous plastic material free from visible cracks, holes, or foreign inclusions. The conduit bore shall be smooth and free of blisters, nicks, or other imperfections which could mar conductors or cables. Conduit fittings and cement shall be produced by the same manufacturer to assure system integrity and shall be Carlon Plus 40 conduit or equal.

T-Hangar Access Road Lighting Controller: The T-Hangar access road lighting control panel shall be as detailed on the Plans and as specified herein, and shall include the following described equipment (installed complete and operational):

- A. UL-listed NEMA 4 stainless steel control panel enclosure adequately sized to hold the respective components and equipment. Include legend plates labeled "T-HANGAR ACCESS ROAD LIGHTING CONTROLLER", "120/240 VAC, 1 PHASE, 3 WIRE", and "CAUTION DISCONNECT POWER BEFORE SERVICING".

- B. Terminal Blocks: Terminal blocks for power and control wiring shall be 600-Volt, with Amperage ratings in conformance with NEC Table 310-16 using 75°C wires for the respective wire lug range, box lug type, Square D Class 9080, Type G, or approved equal.
- C. Lighting Contactor: Lighting contactor shall be 30-Amp, 4-pole, electrically-held contactor suitable for lighting loads, with 120 VAC, 60 Hz coil, Square D Class 8903, Type SMO3V02, or approved equal.
- D. Fusing: Fusing for control wiring shall be 10-Amp, 600 VAC, Bussmann Catalog Number FNQ-R-10, or approved equal, with fuse blocks with box lug terminals, sized as required for the respective application. Include hardware for mounting. Provide one box (5 minimum quantity) of each type and size of fuse, upon completion of the job for use as spares.
- E. Control wiring shall be sized as required per NEC, minimum #14 AWG Type MTW, THW, or THWN copper. Internal power wiring shall be sized, as required per NEC, minimum #10 AWG Type THW, RHW, USE, THWN, or XHHW copper.
- F. Photocell: Photocell shall be rated 2000-watts at 120 VAC, with off delay, and -40°C to 60°C operating temperature range, Tork Model Number 2101, Intermatic Model Number K4121M, or approved equal. Provide mounting hardware, junction box, and water-tight hubs for interface to lighting controller enclosure. Verify photocell is suitable for the respective application. Adjust mounting height where applicable for proper operation.
- G. Equipment Grounding Bar: Provide a grounding bar mounted and bonded inside the panel enclosure, adequately sized to accommodate all ground conductors to or from the lighting controller panel.
- H. Selector Switch: Three-position maintained "Hand-Off-Auto" selector switch, heavy-duty, water-tight/oil-tight (NEMA 4/13), Square D Class 9001, Type KS43FBH13, or equal. Include legend plate labeled "AUTO-OFF-ON". Mount selector switch on panel interior with mounting bracket.
- I. Legend Plates: Legend plates shall be weatherproof and abrasion-resistant, phenolic materials. Lettering shall be black on white background, unless otherwise noted.

CONSTRUCTION METHODS

General: The Contractor shall furnish and install all materials necessary for complete installation of the roadway light pole and fixture, as stipulated in this Special Provision and as shown on the Plans.

The complete installation and wiring shall be done in a neat, workmanlike manner. The complete installation and wiring shall be done in a neat, workmanlike manner. All electrical work shall comply with the requirements of the National Electrical Code (most current issue in force) and all other applicable local codes, laws, ordinances, and requirements in force. Electrical equipment shall be installed in conformance with the respective manufacturer's directions and recommendations for the respective application. Any installations, which void the UL listing, ETL listing (or other third party listing), and/or the manufacturer's warranty of a device, shall not be permitted.

Contractor shall keep a copy of the latest National Electrical Code (NFPA 70) in force on site at all times during construction for use as a reference.

Contractor shall coordinate work and any power outages with the Airport Manager and the Resident Engineer. Any shutdown of existing systems shall be scheduled with and approved by the Airport Manager prior to shutdown.

Installation of Roadway Lights: The Contractor shall furnish and install all necessary wire to make electrical connections between the light fixtures and the ballast terminals, and the ballast terminal and the feeder cables.

The concrete foundations to support the light poles shall each conform with the dimensions and details shown on the Plans and each be provided with four anchor bolts (1.25 in. rd. x 42 in. long with 6-in. eyes/hooks, or as per the respective pole manufacturer's requirements), one or two 2.5-in. galvanized, rigid steel conduit elbows for power cable entrance, and one 3/4-in. or 1-in. schedule 40 or 80 PVC conduit for the grounding electrode conductor entrance. The Contractor shall furnish and install leveling and locking nuts and required washers for mounting and plumbing the pole. All mounting hardware shall be galvanized steel. After the entire assembly has been aligned and plumbed, a grout mixture shall be forced under the base casting so that after curing, the grout will be in contact with the bottom of the base at all points. The Contractor will be required to form the foundations to the lines and grades shown on the Plans or established by the Resident Engineer in the field. The anchor bolts and conduit elbows shall be secured in proper position and alignment prior to pouring concrete and extreme care should be exercised during pouring and finishing of concrete so as not to displace the anchor bolts and the conduit elbow. The conduit elbows imbedded in the concrete foundations shall be oriented so as to face the direction of the underground cable serving the light.

All exposed edges of the concrete foundations shall have a 3/4 in. bevel.

The Contractor shall bond each pole to a ground rod with a #6 AWG bare-stranded, copper grounding, electrode conductor. The equipment ground wire run with power conductors to the pole shall also be bonded to the pole. Include a #10 THWN equipment ground wire with the branch circuit conductors from the base of the pole to each light fixture. The resistance to ground of any part of the ground system shall not exceed 10 Ohms.

The installation shall be tested in operation as a completed unit prior to acceptance. Tests shall include resistance, voltage, and current readings, as required by the Resident Engineer. The Contractor shall furnish all testing equipment. Tests shall be conducted as directed by the Resident Engineer and shall be to his satisfaction. The Contractor shall be responsible for all equipment and materials furnished under this contract and for equipment and conduit in-place, which will be connected to the new equipment, and any equipment or materials found to be defective or damaged shall be replaced by the Contractor at his own expense.

Installation of Lighting Controller: Lighting controller shall be located and installed, as detailed on the Plans. Provide hot-dipped, galvanized steel, strut support with corrosion-resisting hardware to mount the lighting controller enclosure. All conduit entries into the lighting controller enclosure shall have NEMA 4 hubs UL-listed for the respective enclosure to maintain the NEMA 4 rating of the enclosure.

BASIS OF PAYMENT

This item will be paid for at the contract unit price bid per each roadway light, which price and payment shall constitute full compensation for furnishing and installing the light pole with fittings, metal halide luminaires with lamps, ballasts, brackets, and braces; for all excavation, backfilling, and restoration required for the construction of the concrete foundations; for furnishing all materials, including forms necessary for construction of the concrete foundations complete with anchor bolts and conduit elbows; for furnishing and installing the grounding system, lightning arrester, and fusing, for all wiring (except "feeder" cable); for making all electrical connections; for testing the installation; and for all other incidentals necessary to place the lights in operation to the satisfaction of the Resident Engineer.

The lighting controller shall be considered incidental to the cost of the Type A Area Light Pole with 1 Fixture and shall not be paid for separately.

The cable in unit duct or conduit from the lighting control center to the roadway light poles will be paid for under Item AR108658.

Payment will be made under:

Item AR106511 Type A Area Lght Pole w/1 Fixture - per each

ITEM 108
INSTALLATION OF UNDERGROUND CABLE FOR AIRPORTS

DESCRIPTION

108-1.1. Add the following to this section:

“This item of work shall consist of the installation of cable for the T-Hangar access road lighting at the locations shown on the Plans and in accordance with these Specifications. This item shall include “cable in unit duct” where noted on the Plans and specified herein.”

MATERIAL

108-2.1 General. Add the following.

“All cable shall be UL-listed, as suitable for installed application.”

108-2.2 Cable. Revise this section to read as follows:

“THWN Wire – Cable shall be 1/C sized, as indicated on the Plans. Cable shall comply with Underwriters’ Laboratories Standard UL-83 and shall be UL-listed as VW-1. Conductor shall be soft-annealed, uncoated copper and shall comply with ASTM B3 and B8. Insulation shall be rated for 600V. Insulation shall be polyvinyl-chloride conforming to Underwriters’ Laboratories requirements for Type THW. The outer covering shall be nylon conforming to Underwriters’ Laboratories for type THHN or THWN. Cable shall be UL-listed and marked THWN. Power and control wiring shall be Rome Building Wire, Type THWN, or approved equal.

XLP-USE Wire – Cable shall comply with UL Standard 44, UL Standard 854, and Federal Specification A-A-59544. Conductor shall be concentric strand soft copper, conforming to ASTM B8 and Underwriters’ Laboratories Standard UL44 for Rubber Insulated Wires. Insulation shall be rated for 600V. Insulation shall be cross-linked polyethylene conforming to Underwriter’s Laboratories Requirements for Type USE-2 insulation. Cable shall be UL-listed and marked USE-2. Cable shall be Southwire Company or Rome Cable Corporation, Type USE or approved equal.

Item AR108658, 3/C #8 600 V UG Cable in UD shall consist of 3-1/C #8 AWG, XLP-USE, 600-volt cable in unit duct (1-in. or sized larger, as required per NEC).”

108-2.3 Bare Copper Wire (Counterpoise). Delete this section.

108-2.4 Cable Connections. Add the following to this section:

“All below grade splices shall be installed in splice cans. Splice cans shall be L-867, Class I, Size B (12-in. diameter), 24-in. deep with 1/2 in. thick steel cover. Larger size splice cans shall be provided, as applicable, for specific equipment applications or manufacturer’s recommendations, and/or where detailed on the Plans. Splice cans located in areas subject to heavy aircraft or vehicle loading shall be L-868 type. The Engineer shall approve all splice locations before work commences.”

108-2.6 Unit Duct. Standard sizes of smooth wall, polyethylene duct shall conform to the dimensional requirements specified below:

<u>Nominal Duct Size</u>	<u>Nominal Inside Diameter</u>	<u>Nominal Standard Wall</u>	<u>Nominal Outside Diameter*</u>
3/4”	0.910”	0.070”	1.050”
1”	1.145”	0.085”	1.315”
1-1/4”	1.440”	0.110”	1.660”
1-1/2”	1.650”	0.125”	1.900”
2”	2.065”	0.155”	2.375”
2-1/2”	2.449”	0.213”	2.875”
3”	3.048”	0.226”	3.500”
4”	4.000”	0.250”	4.500”

* Dimensions include allowance for duct eccentricity.

CONSTRUCTION METHODS

108-3.1 General. Add the following to this section:

“The cable quantities as shown on the Construction Plans are based on straight-line measurement and 6 ft of entry cable per light. All other cable lengths, such as slack or waste, will not be measured for payment.

If the Contractor wishes to lay cable on a line other than that shown on the Plans, he shall obtain approval of the Resident Engineer before doing so. Any additional cable needed because of such change will be at the Contractor’s expense.

Only cable in unit duct may be plowed.

Care shall be taken so as not to damage any existing circuits. Any existing circuits damaged shall be immediately repaired to the satisfaction of the Engineer and/or the respective utility or owner where applicable. Any repairs of existing cables will be considered incidental to the contract and no additional compensation will be allowed.”

108-3.2 Installation in Duct or Conduit. Add the following to this section:

“The proposed cable and unit duct shall be factory assembled and delivered to the site on reels.

The unit duct will be run continuous through all ducts and conduits unless shown otherwise on the Plans.”

108-3.3 Trenching. Add the following to this section:

“Cable trenches shall be excavated to a minimum depth of 24 in. below the finished grade. Cable plowing shall be done at a minimum depth of 24 in. below the finished grade. Cable installed in cultivated fields shall be installed a minimum of 42 in. below grade. Where shown otherwise on the Plans or specified herein, cable trenches and/or cable plowing shall be at depths greater than 24 in. below finished grade.”

108-3.4 Installation in Trenches. Add the following:

“Any and all trenches will be backfilled to a smooth grade to the satisfaction of the Resident Engineer. Areas disturbed during the installation of the proposed cable, which are not completed before the contract seeding operations, will be fertilized and seeded. The fertilizing and seeding will be completed in accordance with Item 901, but will be incidental to this pay item.”

108-3.8 Splicing. Delete paragraphs (b) and (e). Add the following:

“Splices will be allowed in new circuits only at splice cans. Splices of multi-conductor control cable and/or telephone communications cable will not be allowed.

In-line connections for existing cables cut during construction shall be repaired with the cast splice kit. The Contractor shall have a minimum of two (2) splice kits on the job site at all times for emergency repairs. Splice markers shall be installed over each splice in cables not to be abandoned. Cast splice kits shall be specified in paragraph (a) of Item 108-2.4.”

108-3.10 Testing. Add the following.

“(g) All testing shall be performed in the presence of the Resident Engineer. All cables found to be defective due to installation methods shall be replaced by the Contractor at his expense.”

108-3.11 Plowing-in of Cable in Unit Duct.

NOTICE: Plowing-in of unit duct does not relieve the Contractor of responsibility for repairing damage to existing cables cut as a result of the Contractor's operations, as described in Paragraph 108-3.1. Extreme care must be taken to locate all existing circuits in the working limits of the plowing operations before commencing the operation. The Contractor shall have the option of trenching-in cables as described in Paragraph 108-3.3, 108-3.4, 108-3.5, and 108-3.6 in lieu of plowing-in any sections so noted on the Plans – at no additional cost or time to the contract.

If the Contractor elects to plow the cable in unit duct into place, his plowing operation must conform to the following requirements:

The forward moving speed of the plow shall be between 15 and 40 ft per minute. The plow shall be wide enough to freely allow the unit duct to pass through it but not exceed the overall width of two in.

The unit duct shall be inserted into the plow in a manner that will not cause the unit duct to bind, pull or break. The unit duct shall be installed so that it is possible to withdraw a cable and pull in a new one. Sweeping long radius bends shall be used. Any run with a kink or short radius bend will be rejected. The cable in unit duct shall be installed continuous between lights without any splices in cable or unit duct. The holes for the transformer bases or at locations of cable termination shall be dug before the plowing operation is commenced. A method approved by the Engineer shall be used to prevent the walls of the holes from collapsing due to tractor and plow wheels.

The unit duct may be unreeled along the proposed cable route before plowing or the unit duct reels may be mounted on the tractor. In the latter case, unreeling of the unit duct shall not cause excessive tension on the cable.

After the tractor and the plow are positioned at the beginning of the run, sufficient unit duct slack shall be pulled through the throats. Then the plow shall be lowered into the hole, and the unit duct shall be hand-held for the start of plowing. At each equipment hole, the plow shall be stopped (movement and vibration), raised, and the required amount of slack shall be hand-pulled. Care shall be taken during the operation that the unit duct, at the entrance into the equipment hole, shall not be pulled from the specified depth. Plowing shall be continued by lowering the plow, starting it, and holding the unit duct by hand until it is firmly held by the ground.

The plow shall not be backed onto the unit duct.

When an underground obstruction is encountered, the plow shall be lifted out of the ground. The obstruction shall be removed by hand digging. An opening shall be hand dug around the unit duct down to the depth of the unit duct and large enough to lower the plow, then the plow shall be lowered into the opening. While this is being done, the unit duct shall be pulled back into the throat by hand to prevent

kinks or sharp bends. In no case shall the unit duct be bent sharper than 3 ft radius, or be subjected to excessive tension.

After installation of unit duct by plowing, the disturbed earth at the surface shall be leveled and, if necessary, compacted by a device approved by the Engineer.

Ends of cable shall be taped immediately after cutting to prevent moisture from entering the cable. Where the cable is not expected to be connected for at least 72 hours, the tape shall also be varnished.

To identify routing of the unit duct, immediately after plowing, stakes shall be installed every 200 ft along straight runs and at each curve. Later, these stakes shall be replaced by regular concrete cable markers. Concrete markers shall be placed in areas not used for agricultural purposes (plowed fields).

Plow operators shall be experienced and qualified by schooling and/or by sufficient on the job, training under an experienced operator. Proof of such qualification shall be required from the Contractor.

108-3.12 Locating of Existing Underground Utilities and Cables.

The location, size, and type of material of existing underground utilities indicated on the Plans are not represented as being accurate, sufficient, or complete. Neither the owner nor the Engineer assumes any responsibility whatever in respect to the accuracy, completeness, or sufficiency of the information. There is no guarantee, either expressed or implied, that the locations, size, and type of material of existing underground utilities indicated are representative of those to be encountered in the construction. It shall be the Contractor's responsibility to determine the actual location of all such facilities, including service connections to underground utilities. Prior to construction, the Contractor shall notify the utility companies of his operational plans and shall obtain from the respective utility companies detailed information and assistance relative to the location of their facilities and the working schedule of the companies for removal or adjustment, where required. In the event an unexpected utility interference is encountered during construction, the Contractor shall immediately notify the utility company of jurisdiction. The Engineer shall also be immediately notified. Any such mains and services shall be restored to service at once and paid for by the Contractor at no additional cost to the Contract.

It should be noted that all FAA control and communications cables shall be located by the FAA. All utility cables and lines shall be located by the respective utility. Contact JULIE (Joint Utility Location Information for Excavation) for utility information, phone: 1-800-892-0123. Also, contact the Airport Manager and/or respective airport personnel for assistance in locating underground airport cables and/or utilities.

Contractor shall locate and mark all existing cables within ten (10) ft of proposed excavating/trenching area. Any cables found interfering with proposed excavation or cable/trenching shall be hand-dug and exposed. Any damaged cables shall be immediately repaired to the satisfaction of the Engineer at the Contractor's expense. The Engineer and Owner shall be notified immediately if any cables are damaged.

Payment for locating and marking underground utilities and cables will not be paid for separately, but shall be considered incidental to the plowing/trenching of unit duct.

BASIS OF PAYMENT

108-5.1. Payment will be made at the contract unit price per lin. ft of cable, completed and accepted by the Engineer. This price shall be full compensation for furnishing all materials and for all preparation, assembly, and installation of these materials; and for all excavation and backfilling; and for all labor, equipment, tools, and incidentals necessary to complete this item.

Payment will be made under:

Item AR108658 3/C #8 600 V UG Cable in UD - per lin. ft

ITEM AR110014
4" DIRECTIONAL BORE

DESCRIPTION

This item of work shall consist of the installation of all proposed ducting as shown on the Construction Plans.

110-2.1 General. The duct to be directional bored or concrete encased shall be 4-in. Schedule 40 PVC Conduit or 4-in. HDPE (High Density Polyethylene) duct. All materials for these items shall be in accordance with the FAA Standard Specification 110 "Equipment and Materials."

110-2.5 Steel Conduit. Replace this section with the following:

"Rigid Steel Conduit and fittings shall be hot-dipped, galvanized, UL-listed, produced in accordance with UL Safety Standard #6 and ANSI C80.1."

110-2.7 Plastic Conduit. Add to this section:

"Conduits for directional boring and concrete encased shall be Schedule 40 PVC, UL-listed, rated for 90 deg. C cable conforming to NEMA Standard TC-2 and UL 651 and suitable for directional boring installation or HDPE (High Density Polyethylene), UL-listed, conforming to NEMA Standard TC-7 and UL 651B and suitable for directional boring installation. Per NEC 300.5 (K), raceways installed using directional boring equipment shall be approved for the purpose. Provide manufacturer's literature confirming the respective duct is suitable for directional boring with the respective shop drawing submittal."

CONSTRUCTION METHODS

110-3.1 General. Add to this section:

"Underground ducts installed by directional boring or trenching method shall be installed in a manner that will not damage any existing underground utilities and shall not disturb or damage the respective pavement or roadway surface. Ducts shall be directional bored and trenched at the locations shown on the Construction Plans. The ducts will be bored at a minimum depth of 30 in. below the bottom of the pavement it is being bored under. The two-way concrete encased duct bank shall be constructed according to plan details. The concrete shall be in accordance to specification AR610 Structural Portland Cement Concrete. Ducts installed under paved areas and roadways shall extend a minimum of 3 ft beyond the respective pavement or roadway surface. A pull wire will be left in the conduit if it is to be left vacant. The ends of the conduit will be sealed with approved plugs."

The Contractor will determine if there is a conflict between the installation of the proposed electrical duct and the existing utilities. He will make all necessary adjustments in depth of installation to avoid any and all proposed underground improvements.”

METHOD OF MEASUREMENT

110-4.1. The quantity of conduit to be paid for shall be the number of lin. ft of ducts of the particular type installed and measured in-place, complete and accepted by the Resident Engineer.

BASIS OF PAYMENT

110-5.1. Payment will be made at the contract unit price per each type and size of conduit, completed and accepted. This price shall be full compensation for furnishing all materials and for all preparation, assembly, and installation of these materials; for all sawing and pavement removal; and for all excavation and backfilling with aggregate backfill, earth backfill and concrete; and for all labor, equipment, tools, and incidentals necessary to complete this item.

Payment will be made under:

- Item AR110014 4” Directional Bore - per lin. ft
- Item AR110502 2-Way Concrete Encased Duct – per lin. ft

AR150530
TRAFFIC MAINTENANCE

DESCRIPTION

This item of work shall consist of providing temporary traffic signs and barricades at the construction site to warn motorists of the construction area. The barricades will be lighted, marked, and flagged so that they are plainly visible night or day to the vehicle drivers. The barricades will be standard highway barricades with a flashing red light. The barricades will require weighting down by sand bags. The placement locations for barricades are directly adjacent to the work area on the roadway. The barricades spacing will be 15 ft center to center. The barricades are to be in-place when construction activities are within 10 ft of the roadway pavement edge, or when a drop off from the pavement edge exceeds 3 in. within 5 ft of the edge of pavement. When construction activities are within 10 ft of the roadway pavement edge, a flagger is required.

The temporary traffic signs will be placed at the locations detailed on the Proposed Traffic Control Plan sheet in the Construction Plans.

CONSTRUCTION METHODS

Prior to the commencement of the work in the roadway area to remove the concrete median, concrete curbing, replacement of roadway pavement, and construction of the access road adjacent to the roadway, the temporary signs and barricades will be in-place. Whenever construction personnel or equipment is on or adjacent to Airline Drive, the Contractor will provide a flag person to control traffic.

The temporary signs will remain in-place until the construction is completed, with exception of the flagger sign which will be in-place only when the flagger is present. The Contractor will maintain the temporary signs and place them and take them up as many times as required to complete the work.

BASIS OF PAYMENT

Payment will be made at the contract unit price per lump sum for providing, maintaining, and removing temporary signs, and barricades, and providing flaggers when required by this Specification for the project work on the roadway and adjacent to the roadway. The price shall be full compensation for furnishing and installation of all equipment and materials; maintenance; for all labor and incidentals necessary to complete this item of work.

Payment will be made under:

Item AR150530 Traffic Maintenance - per lump sum

ITEM AR156511
DITCH CHECK

DESCRIPTION

This item of work shall consist of placing and maintaining straw bales to form ditch checks in accordance with the details shown on the Construction Drawings as partial implementation of a Stormwater Pollution Prevention Plan. The measures of the plan and locations of the ditch checks are shown on the Construction Drawings and shall be constructed in accordance with the Illinois Environmental Protection Agency (IEPA) Standards and Specifications for soil erosion and sediment control and these Special Provisions.

CONSTRUCTION METHODS

The Contractor shall furnish, install, and maintain the straw bales required for the ditch checks at the locations shown on the Construction Drawings. The ditch checks shall be inspected frequently and replaced or repaired, as needed, to the satisfaction of the Resident Engineer throughout the project duration. Replacement of a ditch check will not warrant compensation for an additional ditch check. Once a stand of grass is established and accepted by the Engineer, the Contractor shall remove the straw bale ditch checks and dispose them off the airport property.

METHOD OF MEASUREMENT

The quantity of ditch checks to be paid for shall be the number of ditch checks constructed, as specified and accepted by the Resident Engineer.

BASIS OF PAYMENT

Payment will be made at the contract unit bid price for Ditch Checks. This price shall be full compensation for furnishing the required materials and constructing the ditch checks to the details shown and the Specifications herein, for maintaining and replacing the ditch checks as needed for the duration of the project, and their removal once an acceptable stand of grass has been established on the site.

Payment will be made under:

Item AR156511 Ditch Check - each

ITEM AR156520
INLET PROTECTION

DESCRIPTION

This item of work shall consist of inlet protection as implementation of a Stormwater Pollution Prevention Plan.

The measures of the Plan are shown on the Construction Plans and shall be constructed in accordance with the Illinois Environmental Protection Agency (IEPA) Standards and Specifications for soil erosion and sediment control.

MATERIALS

Silt Fence. The proposed silt fence fabric shall consist of woven or non-woven filaments of polypropylene, polyester, or polyethylene. Non-woven fabric may be needle-punched, heat-bonded, resin-bonded, or combination thereof. The filaments in the silt fence fabric must be dimensionally stable (i.e., to each other), resistant to delamination, and must be free from any chemical treatment or coating that might significantly reduce porosity and permeability. The fabric shall be resistant to ultraviolet radiation. The fabric shall comply with the following physical properties:

Physical Properties (English)	Ground Stabilization	Silt Filter Fence Fabric
Grab tensile strength (lbs) - ASTM D 4632	200 (min.) ^{1/}	200 (min.) ^{1/}
Grab elongation @ break (%) – ASTM D 4632	12 (min.) ^{1/}	12 (min.) ^{1/}
Burst strength (psi) – ASTM D 751	250 (min.) ^{2/}	250 (min.) ^{2/}
Trapezoidal tear strength (lbs) ASTM D 4533	75 ^{2/}	-----
Width (ft)	-----	3.5 (min.)
Weight (oz/sq yd.) - ASTM D 3776	4.0 (min.)	4.0 (min.)
Equivalent opening size (EOS) Sieve No. - Corps of Engrs. CS-02215	-----	30 (min.)(non-woven) ^{2/} 50 (min.)(woven) ^{2/}

Physical Properties (Metric)	Ground Stabilization	Silt Filter Fence Fabric
Grab tensile strength (N) - ASTM D 4632	900 (min.) ^{1/}	900 (min.) ^{1/}
Grab elongation @ break (%) – ASTM D 4632	12 (min.) ^{1/}	12 (min.) ^{1/}
Burst strength (kPa) – ASTM D 751	1720 (min.) ^{2/}	1720 (min.) ^{2/}
Trapezoidal tear strength (N) ASTM D 4533	335 ^{2/}	-----
Width (m)	-----	1 (min.)
Weight (g/m ²) - ASTM D 3776	135 (min.)	135 (min.)
Equivalent opening size (EOS) Sieve No. - Corps of Engrs. CS-02215	-----	600 µm (min.) (non-wov.) ^{2/} 300 µm (min.)(woven) ^{2/}

1/ For woven fabric, test results shall be referenced to orientation with warp or weave, whichever the case may be. Both woven and non-woven fabric shall be tested wet.

- 2/ Test results may be obtained by manufacturer's certification.

CONSTRUCTION METHODS

Inlet Protection. The existing and proposed storm sewer inlets within the work area shall have silt fence fabric placed around them, as detailed on the Construction Plans. The inlet protection will be removed once a stand of grass has been established on the site.

BASIS OF PAYMENT

Payment will be made at the contract unit bid price for Inlet Protection. This price shall be full compensation for furnishing required material and constructing inlet protection as a proposed erosion control measure, maintaining the inlet protection for the duration of the project and its removal once a stand of grass has been established on the site.

Payment will be made under:

Item AR156520 Inlet Protection - per each

ITEM AR156521
HEADWALL PROTECTION

DESCRIPTION

This item of work shall consist of placing and maintaining straw bales and silt fence to protect headwalls from silt in accordance with the details shown on the Construction Drawings as a partial implementation of a Stormwater Pollution Prevention Plan. The measures of the plan and the locations of the headwall protection are shown in the Construction Plans and shall be constructed in accordance with the Illinois Environmental Protection Agency (IEPA) Standards and Specifications for soil erosion and sediment control and these Special Provisions.

MATERIALS

Erosion Control Fence. The proposed silt fence fabric shall consist of woven or non-woven filaments of polypropylene, polyester, or polyethylene. Non-woven fabric may be needle-punched, heat-bonded, resin-bonded, or combination thereof. The filaments in the silt fence fabric must be dimensionally stable (i.e., to each other), resistant to delamination, and must be free from any chemical treatment or coating that might significantly reduce porosity and permeability. The fabric shall be resistant to ultraviolet radiation. The fabric shall comply with the following physical properties:

Physical Properties (English)	Ground Stabilization	Silt Filter Fence Fabric
Grab tensile strength (lbs) - ASTM D 4632	200 (min.) ^{1/}	200 (min.) ^{1/}
Grab elongation @ break (%) – ASTM D 4632	12 (min.) ^{1/}	12 (min.) ^{1/}
Burst strength (psi) - ASTM D 751	250 (min.) ^{2/}	250 (min.) ^{2/}
Trapezoidal tear strength (lbs) ASTM D 4533	75 ^{2/}	-----
Width (ft)	-----	3.5 (min.)
Weight (oz/sq yd.) - ASTM D 3776	4.0 (min.)	4.0 (min.)
Equivalent opening size (EOS) Sieve No. - Corps of Engrs. CS-02215	-----	30 (min.)(non-woven) ^{2/} 50 (min.)(woven) ^{2/}

Physical Properties (Metric)	Ground Stabilization	Silt Filter Fence Fabric
Grab tensile strength (N) - ASTM D 4632	900 (min.) ^{1/}	900 (min.) ^{1/}
Grab elongation @ break (%) – ASTM D 4632	12 (min.) ^{1/}	12 (min.) ^{1/}
Burst strength (kPa) - ASTM D 751	1720 (min.) ^{2/}	1720 (min.) ^{2/}
Trapezoidal tear strength (N) ASTM D 4533	335 ^{2/}	-----
Width (m)	-----	1 (min.)
Weight (g/m ²) - ASTM D 3776	135 (min.)	135 (min.)
Equivalent opening size (EOS) Sieve No. - Corps of Engrs. CS-02215	-----	600 µm (min.) (non-wov.) ^{2/} 300 µm (min.)(woven) ^{2/}

1/ For woven fabric, test results shall be referenced to orientation with warp or weave, whichever the case may be. Both woven and non-woven fabric shall be tested wet.

2/ Test results may be obtained by manufacturer's certification.

CONSTRUCTION METHODS

The Contractor shall furnish, install, and maintain the straw bales and silt fence required for the headwall protection at the locations shown on the Construction Drawings. The headwall protection shall be inspected frequently and straw bales replaced or repaired as needed to the satisfaction of the Resident Engineer throughout the duration of the project. Replacement of straw bales or silt fence is considered incidental to the headwall protection, and no additional compensation will be allowed. Once a stand of grass is established and accepted by the Engineer, the Contractor shall remove the straw bales and silt fence and remove them from the airport property.

METHOD OF MEASUREMENT

The quantity of headwall protection to be paid for shall be the number of headwall protection constructed, as detailed and specified and accepted by the Resident Engineer.

BASIS OF PAYMENT

Payment will be made at the contract unit bid price for Headwall Protection. This price shall be full compensation for furnishing the required materials and constructing the headwall protection to the details shown and the Specifications herein, for maintaining and replacing the straw bales and silt fence as needed for the duration of the project, and their removal, once an acceptable stand of grass has been established on the site.

Payment will be made under:

Item AR156521 Headwall Protection – per each

ITEM AR162724
ELECTRIC GATE –24’

DESCRIPTION

This item shall consist of furnishing and installing an electric slide gate in accordance with these Specifications and at the location shown on the Construction Plans. This item will include all labor, equipment, and materials required to put the proposed electric slide gate in proper working order. This item shall include coordination with the serving electric utility company and the Airport Manager. This item shall also include furnishing and installing the service breaker, the distribution panelboard with all circuit breakers, surge arresters/protectors, safety switch, conduits, wire, and all other electrical equipment, as detailed the Plans and specified herein, necessary for the completion of the gate operator system, as detailed on the Construction Plans and within the Specifications. Cable and conduits related to the electric service and feeder to the distribution panelboard and/or control wiring for the gate operator shall be paid for under Item AR162724.

The gate operator system for the 24-ft clear opening gate shall include the following features:

- New slide gate with operating hardware, gate operator, heater, controller, and detector amplifiers.
- New card access control station to match the existing Stanley Electronics card readers located at the airport.
- The gate shall be a card access entry/free exit gate. Include 250 cards with card reader.
- The gate shall have an automatic closing feature activated by an adjustable timer. Safety loops shall be provided at both sides of the gate to delay the closing of the gate in the event that it detects that the vehicle has not yet passed through the gate. The inner loop shall also provide automatic opening to exit upon detection of a vehicle.
- Power for the gate operator shall be from a new electric service, located on an existing T-Hangar building. Contractor shall furnish a new 60-Amp, 2-pole, 120/240 VAC service breaker in the existing available meter center base and a new distribution panelboard as detailed on the Plans. Contractor shall coordinate new electric service with the serving electric utility company (Illinois Power Company) and the Airport Manager.
- Controls and associated control wiring shall be as shown on the Plans and detailed herein.
- Include surge protection on the gate operator and associated control systems.

MATERIALS

All equipment and materials used in the construction shall be in accordance with the Specifications and detailed instructions as furnished by the manufacturer. The Contractor shall furnish shop drawings for approval before ordering material for the following system components.

- Slide Gate
- Hydraulic Operator
- Controller
- Card Station w/250 Cards (sequentially numbered)
- Detector Amplifiers
- Safety Loops
- Power Source
- Power Wiring
- Control Wiring
- Heater
- Additional controls, as detailed herein

Gate. Gate construction shall comply with ASTM F1184. The gate frame shall be fabricated from 6063-T6 aluminum alloy extrusions or 6061-T6 structural grade aluminum alloy tubing. The gate shall be metal framed manufactured of aluminum, with cross bracing, and covered with chain link fence fabric, sliding-gate, cantilever-type, capable of spanning the prescribed clear opening, **8 ft** in height and have an enclosed roller assembly to be protected from freezing rain and snow. Fabric shall be 2-in. diamond mesh steel wire, interwoven, minimum 9 gauge thick, top selvage knuckle end closed, bottom selvage twisted tight barbed or knuckle end closed. Fittings, sleeves, bands, clips, rail ends, tension bars, fasteners, and additional miscellaneous fittings shall be galvanized steel. Gate posts shall be fabricated from round galvanized steel pipe with outside dimensions and minimum weight according to ASTM F 1184 for Type II Gate Opening Width: Over 12 ft but not over 30 ft. Gate shall be a Fortress Heavy Duty Cantilever Slide Gate as manufactured by Tymetal Corporation, 2566 State Route 40, Greenwich, New York 12834, Phone: 1-800-328-4283 or 518-692-9930, Fax: 518-692-9404, or approved equal.

Gate Operator. The hydraulic operator shall be equipped with a minimum one (1) horsepower electric motor capable of operating cantilever gate up to 45 ft in overall length weighing up to 1,000 lbs. with a drive rail draw force requirement of no less than 300 lbs. at a preset speed of approximately 1 ft per second, to close the prescribed opening. Gate operators shall be properly sized for the respective gate furnished. Gate operators shall be equipped with a heater to allow operation within a temperature range of -40°F to +149°F ambient temperature, in rain, snow, sun, and high humidity. The operator shall consist of the motor starter and all relays required from the operation outlined herein. The operator and components shall be factory assembled and wired so as to require only field connections of the card reader, loops, and system power supply. The operator housing shall be weatherproof, fabricated from steel with a corrosion resistant, powder coated paint finish and shall completely enclose the motor and electrical components of the unit. Appropriate time delays shall be incorporated for safe gate operation.

Gates shall close automatically after an extensive adjustable delay period, unless manually disabled. The gate operator shall be UL-listed or ETL-listed to have met requirements of UL 325, (Fourth Edition), Standard for Safety for Door, Drapery, Gate, Louver and Window Operators and Systems and the applicable requirements of UL-991 (Second Edition), Standard for Tests for Safety-Related Controls Employing Solid State Design. The proposed gate operator shall be B & B ARMR Model LXL-15vp or approved equal. Supply voltage for the gate operator shall be 240 VAC, 1 phase, 2-wire with ground.

Include AC secondary surge arrester at the point of the input power connection to the gate operator. Secondary surge arrester shall be UL-listed and shall be suitable for 240 VAC, 1 phase, 2 wire with ground system originating from a 120/240 VAC, 1 phase, 3 wire system, line to line, and line to ground protection modes with a surge current maximum rating of 100,000 Amps 8 x 20 microsecond wave per mode, Ditek Corporation, Model DTK-120/240 CM PLUS, or equal. Surge arresters shall have a lifetime product replacement warranty.

The gate operator foundation will be a minimum of 48 in. depth, to the dimensions recommended by the manufacturer. Foundation shall be constructed with Item 610 Structural Portland Cement Concrete. Anchor bolts shall be per the gate operator manufacturer's requirements. The concrete must have strength of 3,000 psi after 14 days.

Card Station. Card station shall match the existing card readers used at this airport, to ensure compatibility with the existing card types. Contractor shall ensure compatibility between the gate operator control voltages, the card reader input voltage, and the respective control interface. Contractor shall include interfacing relays and/or transformers as applicable. Card station shall be surface mount housing with appropriate adapters and hardware to install on a gooseneck type pedestal. The card station shall be constructed as detailed on the Construction Plans and in accordance to the manufacturer's Specifications. The concrete foundation for the reader shall be a minimum of 48 in. below ground level and to the dimensions recommended by the manufacturer. The concrete shall have the same requirements of the gate operator foundation. Card station shall be the same type as the existing card reader units located at the airport. The existing card readers at this airport are Stanley Electronics, Card Reader Plus with fiber optic programming. In the event that the respective card reader is not available, contact the Airport Manager for further direction and/or alternate model. Coordinate card types and programming with the Airport Manager.

Include low voltage line protector on the card reader. Low voltage line protector shall be suitable for use on the respective control voltage system used in the card reader, AC or DC protection modes (as applicable) on all lines with a surge current maximum rating of 3,000 Amps. Low voltage line protector for 12 VDC, 24 VDC, or 24 VAC applications shall be Ditek Corporation, Model DTK-4LVLP-CR, or approved equal.

Detector Amplifiers. Detector amplifiers shall consist of digital design units capable of automatic tuning, pulse and presence outputs, excellent stability and accuracy, with long-term reliability. The device shall be 100 percent solid-state construction, with plug-in and plug-out circuits for rapid repair. The unit shall constantly monitor the frequency of the loop, and compare and adjust automatically for changes, such as

loop aging, moisture, mechanical deterioration, and foreign bodies in the loop area. Detector amplifiers shall contain lightning protection and be capable of total loop isolation. Amplifiers shall be mounted in or on the outside of the gate controller housing. Weatherproof enclosures, when required, shall be of NEMA-4 design. The amplifiers shall be capable of stable operation and automatic tuning over a range of minus 40°F to plus 180°F. Loop detectors shall be selective as to direction of travel of vehicle with respect to the instantaneous position of the gate, i.e., close loops will activate system only with gate in open or opening state. Open loop will activate gate only with gate in closed or closing state. Detector amplifiers shall be Model B Series as manufactured by Reno A&E, 4655 Aircenter Circle, Reno, Nevada 89502, Phone: 775-826-2020, Fax: 775-826-9191, or an approved equal. Contractor shall verify the selected loop detector is suitable for the respective gate installation.

Loop detector wiring shall be as specified by the manufacturer furnishing the detector amplifiers.

Power Source. Power for the gate operator shall be from a new electric service and 120/240 VAC, 1 phase, 3 wire distribution panelboard located on an existing T-Hangar, as detailed on the Plans. Power to the gate operator will be 240 VAC, single phase with equipment ground wire as detailed on the Plans and in accordance to the gate operator's manufacturer's recommendations. The Contractor will be responsible for providing all necessary material for the installation of the respective electric service and distribution panelboard, and the power and control wiring from the from the gate operator to the card reader, and from the gate operator to the detector loops. The 240 VAC branch circuit power wiring from the distribution panelboard to the gate operator shall be paid for under Item AR108658. It will also be the Contractor's responsibility to locate, identify and protect all existing utilities. Any damage to these utilities will be immediately repaired at the Contractor's own expense.

Control Wiring. Control wires between devices shall be copper, Type THWN, No. 14 minimum, color coded and tagged with wire markers for easy identification.

Induction loop feed wires shall be copper, No. 12 minimum, Twin-Twisted-Shielded, meeting the State of Illinois, Department of Transportation, Specifications.

Induction loop wire shall be copper, with Teflon insulation, meeting all the requirements of manufacturer of the Detector Amplifier specified above.

Wire shall be as manufactured by General Cable, Inc., Anaconda, or an approved equal.

1 in. Galvanized Rigid Steel conduit will be required for all control wires from outside the pavement area to the operator, from the card reader to the operator, and from the operator to the loops.

Electric Utility Service Breaker. Furnish and install a new service breaker in the existing meter center, as detailed on the Plans. New service breaker shall be 60-Amp, 2-pole, with 10,000 AIC at 120/240 VAC and compatible with the existing meter center. Based on field data, the existing meter center appears to be a Siemens Catalog Number WMM6U. Contractor shall field verify the existing meter center and confirm the appropriate service breaker suitable for use with the respective meter center.

Panelboard. Panelboard bus structure and main lugs or main circuit breaker shall have current ratings, as shown on the Plans. Such ratings shall be in accordance with UL Standard 67. Bus bar connections to the branch circuit breakers shall be the “distributed phase” or phase sequence type. All current carrying parts of copper bus structures shall be plated to prevent corrosion. The panelboard bus assembly shall be enclosed in a steel cabinet suitable for the respective location. Panelboards shall be provided with bolt-on circuit breakers of size, type, and ratings as detailed on the Plans. Contractor shall confirm and adjust circuit breaker amperage trip ratings as required for the respective equipment or device being fed, in accordance with the respective equipment manufacturer’s recommendation and NEC. Breakers shall be 1- or 2-pole with an integral crossbar to assure simultaneous opening of all poles in multiple circuit breakers. Breakers shall have an over-center, trip-free, toggle-type operating mechanism with quick-make, quick-break action and positive handle indication. Handles shall have “ON,” “OFF,” and “TRIPPED” positions. Circuit breakers shall be UL-listed in accordance with UL Standard 489 and shall be rated 120/240 volts AC, 1-phase 3-wire. A circuit directory frame and card with a clear plastic cover shall be provided on door interior. Circuit directory shall be typed indicating each branch circuit of the load center or panelboard. Revise directory to reflect circuiting changes as required. All new panelboards shall be UL-listed and bear the UL label. Panelboards shall be furnished with an equipment ground bar(s) and a separate insulated neutral bus.

Safety Switch. Furnish and install a safety switch for the respective gate operator as detailed on the Plans and specified herein. Safety switches shall be heavy-duty, UL-listed, with amperage, voltage, number of poles, and type (fusible or not fusible), and accessories as detailed on the Plans. Safety switches shall be pad lockable in the off position. Include ground lugs or grounding kits with all safety switches. Safety switches located outdoors, or in damp areas shall be in NEMA 3R and 12 or NEMA 4X enclosures without knockouts. Safety switches located in hazardous classified areas shall be UL-listed or FM approved as suitable for the respective location. Safety switches shall be as manufactured by Square D, or equivalent.

Fuses. Fuses shall be the size and type as shown on the Plans. Fuses shall be manufactured by Bussmann or Littlefuse. Furnish two additional fuses of each size and type used on the project, for use as spares.

Ground Fault Circuit Interrupter Receptacles. Receptacles with ground fault circuit interrupters shall be provided and installed where noted on the Plans. Ground fault circuit interrupter receptacles shall be rated 120 VAC, 60 HZ, 20 Amps, specifications grade with NEMA 5-20R receptacle configuration and a trip threshold of 5 ± 1 milliamps. Ground fault circuit interrupter receptacles shall be UL Class A ground fault interrupter receptacle units complying with and tested in accordance with UL Standard No. 943. Ground fault circuit interrupter shall be as manufactured by Leviton, or equal, include junction boxes of surface-mount FS design as manufactured by Appleton, Crouse-Hinds, or equal, and industrial grade rain-tight, NEMA 3R (while outlet is in use, as well as when not in use), UL-listed, FS box mountable, weather-proof covers, TayMac Corporation Catalog No. 20550, or equal.

Galvanized Rigid Steel Conduit. All galvanized rigid steel conduit and couplings shall conform to Federal Specification WW-C-581 and conform to Item 110; conduit and fittings shall also conform to the requirements of UL 6 and UL 514B.

Liquid-Tight Flexible Metal Conduit. Liquid-tight flexible metal conduit shall consist of polyvinyl jacket over flexible hot dip galvanized steel tubing. The flexible conduit shall be completely sealed from liquids, dust, dirt, and fumes, and be resistant to oil, gasoline, grease, and abrasion. Jacket shall also be sunlight resistant. Liquid-tight flexible metal conduit shall be UL-listed, suitable for use as a grounding conductor, and comply with Article 350 of the 2002 NEC. Liquid-tight flexible metal conduit shall be Anaconda Sealtite Type UA as manufactured by Ananmet Electrical Inc., 1000 Broadway East, Mattoon, IL 61938-0039, Liguatite Type LA as manufactured by Liguatite 222 W. Central Ave., Roselle, IL 60172, or approved equal.

Schedule 40 PVC Conduit. Schedule 40 PVC conduit shall comply with Item 110 and the following: Conduit shall be Schedule 40 PVC, 90°C, UL-rated or approved equal. Material shall comply with NEMA Specification TC-2 (Conduit), (Fittings UL-514), and UL-651 (Standard for rigid non-metallic conduit). The conduit and fittings shall carry a UL label (on each 10 ft length of conduit and stamped or molded on every fitting). Conduit and fittings shall be identified for type and manufacturer and shall be traceable to location of plant and date manufactured. The markings shall be legible and permanent. The conduit shall be made from polyvinyl chloride C-300 compound that includes inert modifiers to improve weather ability, heat distortion. Clean reworked material, generated by the manufacturer's own conduit production, may be used by the same manufacturer, provided the end products meet the requirements of this Specification. The conduit and fittings shall be homogenous plastic material free from visible cracks, holes, or foreign inclusions. The conduit bore shall be smooth and free of blisters, nicks, or other imperfections which could mar conductors or cables. Conduit fittings and cement shall be produced by the same manufacturer to assure system integrity and shall be Carlon Plus 40 conduit or equal.

Junction and Pull Boxes. Unless otherwise noted on the Plans, all junction boxes shall be 16-gauge minimum construction. Surface mounted exterior junction and pull boxes located in non-hazardous, non-classified areas, shall be NEMA 4X stainless steel or aluminum, Hoffman, or approved equal. Flush-mounted exterior boxes located in non-hazardous, non-classified areas, in floors, walkways, and walls shall be NEMA 4, cast aluminum, Crouse-Hinds, Hubbell-Killark, or approved equal, and shall be supplied with asphalt paint applied to all surfaces imbedded in concrete. All junction and pull boxes installed in classified hazardous areas (Class 1, Division 1 or 2, Group D) shall be NEMA 7 and shall comply with applicable provisions of the NEC including, but not limited to, Articles 500 and 501. Junction and pull boxes shall be sized as required for conductors and splices and per 2002 NEC Article 314. Boxes shall be UL-listed. Special boxes made to suit conditions shall be used to accommodate the respective application or where required by National Electrical Code even though they might not be indicated on the drawings.

Ground Rods. Ground rods for electrical installations shall be 3/4-in. diameter by 10-ft long, UL-listed, copper-clad with 10-mil. minimum copper coating. Ground rods for fence grounding shall be 5/8-in. diameter by 8-ft long, UL-listed, copper-clad with 10-mil. minimum copper coating.

Legend Plates. Legend plates shall be required for all safety switches, individual circuit breakers, disconnects, etc. Legend plates shall be provided to identify the equipment controlled, the power source, the voltage system, and the function of each device. Legend plates shall be weatherproof and abrasion resistant phenolic material. Lettering shall be black letters on a white background, unless otherwise noted.

Shop Drawings. Shop drawings are required for the electric gate. **Note: Shop drawings that are submitted that do not include all of the following listed requirements will be rejected and will require resubmittal. Contractor shall use the following as a check list and shall verify all information noted below is included with the respective electric gate shop drawing prior to submitting the shop drawing for review. Shop drawing shall be clear and legible. Copies that are illegible will be rejected.** Contractor shall submit sufficient copies of shop drawings to meet the needs of his personnel, Subcontractor personnel, and equipment suppliers, plus 4 copies to be retained by the Project Engineer. Shop drawings shall include the following information:

1. Cut Sheets and Specifications for the slide gate including manufacturer's name, address, and phone number, drawing of the gate with dimensions, detail of the enclosed roller assembly, gate post requirements, gate frame material, and details on the fence fabric.
2. Cut sheets and Specifications for the gate operator. Include manufacturer's name, address, phone number, gate operator model number, gate operator UL listing or ETL listing, gate load capability and drive rail force requirements, traveling speed, housing data, input voltage, motor horsepower rating, full load amperage requirements, manufacturer's recommended wiring requirements, and respective options, (heater option, etc.).
3. Include information, specifications, and cut sheets for the surge suppressor included with the gate operator.
4. Provide data sheets for the card station. Include manufacturer's name and model number for the card reader. Include information for the low voltage line protector that is required to be included with each card reader that requires a power supply.
5. Provide data sheets for the detector amplifiers with manufacturer's name and model number. Include lightning protection on the detector amplifiers.
6. Provide data sheets on the loop/lead-in cables.

7. Provide cut sheets, specification sheets, and manufacturer and respective model numbers for the respective service breaker to be installed in the existing meter center.
8. Provide cut sheets, information, manufacturer's catalog numbers, etc. for the 120/240 VAC, 1 phase, 3 wire panelboard with information and catalog numbers for all circuit breakers, ground bar, number of circuit breaker spaces, and enclosure rating and details.
9. Provide cut sheets, specifications, information, manufacturer's catalog number, for the surge arrester to be installed at the panelboard.
10. Provide cut sheets, information, voltage rating, amperage rating, manufacturer's catalog number, fuse size and manufacturer catalog number, and options for the 30-amp, 2-pole, 240 VAC, UL-listed, heavy-duty safety switch in a NEMA 3R (rain-tight) and NEMA 12 (dust-tight) enclosure that is for the gate operator.
11. Provide a cut sheet for galvanized, rigid steel conduit.
12. Provide a cut sheet for Schedule 40 PVC conduit.
13. Provide a cut sheet for UL-listed, liquid-tight, flexible metal conduit.
14. Provide a cut sheet for THWN conductors.
15. Provide cut sheets with manufacturer's name, catalog number, dimensions, material, and UL listing for each type and size of ground rod used with the gate operator.

CONSTRUCTION METHODS

Airport Security. The Contractor will place barricades across the gate opening whenever the proposed gate cannot be closed at the end of the construction day.

Splices. Splices, where allowed, shall be the resin encapsulating type, suitable for direct burial, and be as manufactured by 3-M, Burndy, or equal.

Materials Furnished by the Contractor. All materials used in the work shall meet the requirements of the respective Specifications, and no material shall be used until it has been approved by the Project Engineer by means of shop drawings. All materials not otherwise specifically indicated shall be furnished by the Contractor. All materials furnished by the Contractor shall be new.

Storage of Materials. Materials shall be so stored as to insure the preservation of their quality and fitness for the work. When considered necessary, they shall be placed on wooden platforms or other hard, clean surfaces and not on the ground, and they shall be placed under cover. Stored materials shall

be located so as to facilitate prompt inspection. Private property shall not be used for storage purposes without the written permission of the Owner or lessee.

Manufacturer's Directions. Manufactured articles, material, and equipment shall be applied, installed, connected, erected, used, cleaned, and conditioned, as directed by the manufacturer unless herein specified to the contrary.

Cutting and Patching. The Contractor shall do all necessary cutting and patching of the pavement that may be required by the Drawings and Specifications to complete the structure. He shall restore all such cut or patched areas as directed by the Resident Engineer. Cutting of existing structures that may endanger the work, adjacent property, workmen or the public shall not be done unless approved by the Owner and under his direction.

Clean Up. The Contractor shall remove from the Owner's property and from all public and private property, all temporary structures, rubbish, and waste materials resulting from his operation or caused by his employees, and shall remove all surplus materials, leaving the site smooth, clean, and true to line and grade.

Guaranty Period. Neither the final certificate of payment nor any provision in the contract, not partial or entire use of the improvements embraced in this contract by the Owner or the public shall constitute an acceptance of work not done in accordance with the contract, or relieve the Contractor of liability in respect to any express warranties or responsibility for faulty materials or workmanship. The Contractor shall promptly remedy any defects in the work and pay any damage to other work resulting therefrom which shall appear within a period of twelve (12) months from the date of final acceptance of the work. The Owner shall give notice of defective materials and work with reasonable promptness.

The guarantee applies to equipment furnished, as well as to all other work and materials.

Electric Slide Gate Construction. The Contractor shall install the electric slide gate as detailed on the Construction Plans and in accordance with the manufacturer's directions. The Contractor will be responsible for the construction of any and all concrete bases for the proposed gate operator and card reader.

Gate Control Equipment. Installation of all electrical equipment and all gate control equipment shall be in conformance with the requirements of the National Electrical Code (most current issue in force), the respective equipment manufacturer's directions, and in strict accordance with the requirements of all local authorities having jurisdiction. All card stations, operators, and controllers shall be grounded to prevent shock. All concrete work required, and the precise locations for the installation of the gate controller/operator, gate card reader, and induction loops, shall be coordinated with the manufacturer's shop drawings.

New loop detector wiring shall be as specified by the manufacturer furnishing the detector amplifiers.

The induction loops shall be equipped with appropriate equipment to operate properly for large trucks and not have a tendency to close the gate onto vehicles parked in the gate opening.

Induction loops shall be installed in saw-cut grooves in the road surface; such grooves of length, width, and depth as required by the manufacturer of the loop control equipment.

Loop wires shall be held in-place in the asphalt pavement by covering slot with a sealer such as #E707 by Bondo, or #491 HP by Euclid Chemical Company or an approved equal.

Electrical General. The Contractor shall furnish and install all electrical materials necessary for complete and operational installation of the gate operator, as stipulated in the respective item and as shown on the Plans. The complete installation and wiring shall be done in a neat, workmanlike manner. All electrical work shall comply with the requirements of the National Electrical Code (most current issue in force), the respective equipment manufacturer's directions, and all other applicable local codes, laws, ordinances, and requirements in force. Electrical equipment shall be installed in conformance with the respective manufacturer's directions and recommendations for the respective application. Any installations which void the UL listing, ETL listing, (or other third party listing), and/or the manufacturer's warranty of a device shall not be permitted.

Per NEC 513, aircraft hangars are classified as a Class 1, Division 2, Group D hazardous location for a level of 18 in. above the floor for the entire area of the hangar. The area in the vicinity of the aircraft is also a Class 1, Division 2, Group D hazardous location with boundaries as noted in NEC 513. All electrical installations in the hangar shall conform to the applicable sections of NEC 500, 501, and 513 in addition to the other applicable sections of NEC. Where electrical equipment is installed in a classified hazardous location, it shall be suitable for use in the respective classified hazardous location. Where possible, avoid installation of electrical equipment, raceways, and wiring in the classified hazardous areas of aircraft hangars.

The Contractor should examine the proposed site to evaluate the complexity of the work.

Contractor shall coordinate work and any power outages to buildings located on the airport with the Airport Manager and/or the respective building personnel.

Contractor shall confirm that the power to each gate operator rated for 240 VAC, single-phase is 240 VAC, single-phase, 2-wire with ground and that each phase to ground is 120 VAC. **Do not connect a high leg of a 240/120 VAC, 3-phase, 4-wire system to a gate operator that is rated for 240 VAC, single-phase power.**

Splices in conductors will be allowed only within the specified junction boxes or splice cans. Only splices between loop lead-in wires and the Twin-Twisted-Shielded conductors are approved. Circuit conductors for power wiring shall be continuous from source of power to connected device (from the respective panelboard or load center to the safety switch at the gate operator).

The Contractor shall be responsible for furnishing and setting all anchor bolts required to install his equipment.

Where concrete mounting pads are required for equipment mounting, the Contractor shall furnish all concreting and form work necessary to complete the installation.

Where electrical equipment is located on damp or wet walls or locations as directed, it shall be “stand-off” mounted ½ in. from the wall in a manner so that the rear of the equipment is freely exposed to the surrounding air. The Resident Engineer shall approve the method of mounting before equipment is mounted.

Installation of Panelboards. Panelboards shall be thoroughly inspected for physical damage, proper alignment, anchorage, and grounding. The exterior finish shall be inspected for blemishes, nicks, and bare spots, and touched up as required using matching touch-up paint. Inspections shall be made for proper installation and tightness of connections for circuit breakers. Install panelboards as shown on the Plans and in accordance with NEMA PB1.1. Install panelboards plumb. Provide filler plates for unused spaces in panelboards. Provide typed circuit directory to identify each branch circuit in the panelboard. Revise directory to reflect circuiting changes as required. Provide legend plates for all panelboards to identify the area and/or equipment controlled by the panelboard, the power source, and the voltage system. Legend plates shall be weatherproof and abrasion-resistant, phenolic material. Lettering shall be black on white background. Panelboards shall be thoroughly tested after installation and connection to respective loads.

Installation of Service Circuit Breakers. Install circuit breakers in meter centers in conformance with the respective manufacturer’s directions. Connect only one wire/cable to each breaker terminal. Update circuit directory to identify the respective device fed by each new circuit breaker. Provide legend plates to identify the respective breaker.

Installation of Safety Switches: All safety switches shall be provided with appropriate mounting hardware and strut support. Strut support shall be hot-dipped, galvanized steel strut support, Unistrut P-1000 HG, or approved equal. Provide zinc rich paint applied to field cuts of strut support to minimum the potential for corrosion per the respective strut support manufacturer’s recommendation. All hardware shall be corrosion resistant. Mount safety switches securely in accordance with the manufacturer’s recommendations/instructions and as required for the respective application. Feeder or branch circuit wiring for the gate operator shall be routed from the power source to the safety switch first and then on to the gate operator. Inspect all safety switches for proper operation, tight and secure connections, and correctness. All safety switch enclosures shall be bonded to the ground with a ground lug or bar and ground wire. Field cut holes in safety switch enclosures to accommodate conduit entrances. Where safety switches are provided with concentric knockouts, and the respective conduit does not use the largest knockout, install a grounding bushing with ground wire connections between the bushing and the ground bus. Do not use safety switch enclosures for a splice box or for a pull box. Do not route control wires or other circuit wiring through a safety switch. Where splices are required or other control circuit wires are installed in the respective conduit to a safety switch, provide a separate

junction box to accommodate the splices and/or other circuit conductors. Provide NEMA 4 hubs for all conduit entries into safety switch enclosures that are rated NEMA 4, 4X to maintain NEMA 4, 4X rating. Provide weatherproof abrasion resistant, engraved legend plates for each safety switch noting the device served, the power source, and the voltage system.

Conduit Installation: Cable in unit duct and/or conduit for the gate operator power shall be direct bury 24 in. minimum below finished grade. Cable in conduit below roadways and walks shall be minimum 24 in. deep. Installation of cable in unit duct and/or conduit shall conform to Item 108. Installation of conduit shall conform to Item 110, as detailed on the Plans and as specified herein.

All conduit(s) under walks shall be pushed.

Conduit size and fill requirements shall comply with Appendix C, conduit fill tables, of the NEC. It should be noted these are minimum requirements and larger conduit sizes or smaller fill requirements shall be used whenever specified or detailed on the drawings.

Liquid-tight flexible conduit shall be provided as a connection between each motor junction box (or any other piece of equipment subject to movement or vibration) and the rigid conduit system.

Ream conduits only after threads are cut. Cut joints square to butt solidly into couplings. Where necessary to join two pieces of conduit, and it is impossible to use standard couplings, use 3-piece malleable iron conduit coupling. The use of running thread is prohibited. This applies to all rigid conduit installations, underground or otherwise.

Make all joints in steel underground conduit water-tight with approved joint compound. Temporarily plug conduit openings to exclude water, concrete, or any foreign materials during construction. Clean conduit runs before pulling in conductors.

A run of conduit between outlet and outlet, between fitting and fitting, or between outlet and fitting shall not contain more than the equivalent of four quarter bends, including bends immediately at an outlet or fitting.

Where conduits enter a box or fitting, provide a steel locknut and an insulated metallic bushing. Use this method to terminate conduit in panels, pull boxes, safety switches, etc.

Provide NEMA four hubs for all conduit entries into enclosures rated NEMA 4, 4X to maintain NEMA 4, 4X rating.

Do not run conduit below or adjacent to water piping.

Run exposed conduits parallel with walls and at right angles to the building lines, not diagonally. Make bends and turns with pull boxes or cadmium plated or hot-dipped, galvanized, malleable iron fittings and covers.

Installation of Junction and Pull Boxes: Use only screws, bolts, washers, etc. fabricated from rust-resisting metals for the supporting of boxes. Install pull boxes in runs of conduit such that a total of 360 degrees in bends is not exceeded. Junction boxes shall be installed at all points in conduit runs where taps or splices are located. Boxes required by code or need which are not detailed on the Plans shall be considered incidental to the respective work item and will not be paid for separately.

Grounding Requirements: Grounding shall conform to the following as applicable: The Contractor shall furnish and install all grounding shown on the Plans and/or as may be necessary or required to make a complete grounding system as required by the latest National Electrical Code (NFPA 70) in force. The reliability of the grounding system is dependent on careful, proper installation and choice of materials. Improper preparation of surfaces to be joined to make an electrical path, loose joints, or corrosion can introduce impedance that will seriously impair the ability of the ground path to protect personnel and equipment and to absorb transients that can cause noise in communications circuits. The following functions are particularly important to ensure a reliable ground system:

- a. All products associated with the grounding system shall be UL-listed and labeled.
- b. All bolted or mechanical connections shall be coated with a corrosion preventative compound before joining, Dearborn Chemical Company "No-Oxide A" compound or equal.
- c. Metallic surfaces to be joined shall be prepared by the removal of all non-conductive material, per 2002 National Electrical Code Article 250-12.
- d. Raceway fittings shall be made up tight to provide a permanent low impedance path for all circuits.
- e. Furnish and install ground rods at all locations where shown on the Plans or specified herein. Ground rods for electrical installations shall be 3/4-in. diameter by 10-ft long, UL-listed, copper-clad with 10-mil. minimum copper coating. Ground rods for fence grounding shall be 5/8-in. diameter by 8-ft long, UL-listed, copper-clad with 10-mil. minimum copper coating. Top of ground rods shall be a minimum of 30 in. below finish grade unless otherwise noted on the Plans. Ground rods shall be spaced as detailed on the Plans and in no case spaced less than one rod length apart. All connections to ground rods and/or ground rings shall be made with exothermic weld type connectors, Cadweld by Erico Products, Inc., Solon, Ohio, (Phone 1-800-248-9353), or Thermoweld by Continental Industries, Inc., Tulsa, Oklahoma (Phone 918-663-1440). Exothermic weld connections shall be installed in conformance with the respective manufacturer's directions using molds as required for each respective application. Bolted connections will not be permitted at ground rods or at buried grounding electrode conductors. Grounding electrode conductors shall be bare stranded copper sized, as detailed on the Plans.
- f. All connections, located above grade, between the different types of grounding conductors shall be made using UL-listed, double-compression, crimp-type connectors or UL-listed, bolted,

- ground connectors. For ground connections to enclosures, cases and frames of electrical equipment not supplied with ground lugs, the Contractor shall drill required holes for mounting a bolted ground connector. All bolted ground connectors shall be Burndy, Thomas and Betts, or equal. Tighten connections to comply with tightening torques in UL Standard 486A to assure permanent and effective grounding.
- g. All metal equipment enclosures, conduits, cabinets, boxes, receptacles, motors, etc. shall be bonded to the respective grounding system. Provide grounding bushings at all conduits entering service entrance equipment (meter bases, service disconnects, service panelboards, etc.) and distribution panels or load centers and ground wire from bushing to ground bus in the respective service entrance equipment or distribution panel.
- h. The equipment ground wire from equipment shall not be smaller than allowed by 2002 NEC Table 250-122 "Minimum Size Conductors or Grounding Raceway and Equipment." When conductors are adjusted in size to compensate for voltage drop, equipment-grounding conductors shall be adjusted proportionately according to circular mil. area. All equipment ground wires shall be copper either bare or insulated green in color. Where the equipment grounding conductors are insulated, they shall be identified by the color green and shall be the same insulation type as the phase conductors.
- i. Bond the main electrical service neutral to ground at the main service disconnect. Bond the service neutral to ground at one location only per the National Electrical Code. A grounding connection shall not be made to any neutral circuit conductor on the load side of the service disconnecting means, except as permitted by 2002 NEC 250-24.
- j. All exterior metal conduit, where not electrically continuous because of manholes, handholes, non-metallic junction boxes, etc., shall be bonded to all other metal conduit in the respective duct run, and at each end, with a copper bonding jumper sized in conformance with 2002 NEC 250-102. Where metal conduits terminate in an enclosure (such as a motor control center, switchboard, etc.) where there is not electrical continuity with the conduit and the respective enclosure, provide a bonding jumper from the respective enclosure ground bus to the conduit sized per 2002 NEC 250-102.
- k. Furnish and install a 5/8 in. diameter, 8 ft long, UL-listed, copper-clad, ground rod near the gate post on each side of gate as detailed on the Plans. Top of each ground rod shall be buried 30 in. below grade. Bond each respective gate post to the respective ground rod with a #6 AWG (minimum) bare stranded copper conductor using exothermic weld connects to the gate post and the ground rod.

Electric Service Entrance. Contractor shall furnish and install electric service entrance as detailed on the Plans and specified herein. As part of the service entrance work, the Contractor shall coordinate with the serving utility (Illinois Power Company, Decatur, Illinois, Phone 1-800-755-5000) the installation of metering in the existing meter center to provide 120/240 VAC, single-phase, 3-wire service for the

respective distribution panelboard. **The respective Airport Authority/IDOT Division of Aeronautics shall pay for all associated electric utility company charges required to provide electric service to the respective distribution panelboard. The Contractor is not responsible for electric utility company charges associated with the proposed electric service to the distribution panelboard.** The Contractor shall coordinate the new electric service with the serving electric utility company and the Airport Manager. The service entrance shall include, but not be limited to, all service entrance equipment, labor and materials as detailed on the Plans and specified herein, in order to provide a complete and operational electrical system.

Illinois Power: Major work items to be performed by Illinois Power (not in contract) shall be as follows:

1. The furnishing of power for a 120/240 VAC, single-phase, 3-wire secondary service sufficient to handle the loads for a 60-Amp service.
2. The furnishing and installing of the meter.
3. Illinois Power shall retain the right to review and approve drawings prior to installation.

Contractor: Major work items to be performed by the Contractor (in contract) shall be as follows: (all work, labor, equipment, and materials shall be as detailed on the Plans specified herein, and per the serving electric utility's requirements, where applicable).

1. Furnishing and installing a 60-Amp, 2-pole, service breaker with 10,000 AIC at 120/240 VAC that is compatible with the existing meter center.
2. Verifying all requirements with serving electric utility.
3. Coordinating the electric service entrance work and billing arrangements with the serving electric utility company and the Airport Manager.
4. Additional work as required by the serving electric utility and as required to provide a complete and operational electric service entrance system.

Testing: The Contractor shall make at his own expense any tests of equipment, wiring, or insulation deemed necessary by any inspection department or by the Contractor Officer and shall provide all apparatus, meters, materials, and labor required to make such tests.

The Contractor shall test and demonstrate to the satisfaction of the Engineer the following:

- a. That all power and control circuits are continuous and free from short circuits.
- b. That all circuits are free from unspecified grounds.

- c. That the insulation resistance to ground of all ungrounded conductors of multiple circuits is not less than 50 megohms.

- d. That all circuits are properly connected in accordance with applicable wiring diagrams.
- e. Test and adjust gate operator, controls, safety devices/features, hardware, and other operable components. Confirm that all circuits operate properly.
- f. Interrupt power to the gate operator and confirm that the gate does not open upon restoration of power. The gate operator shall not activate for a power interruption as it does for a card reader signal input.
- g. Train the designated owner's personnel on procedures for operation, starting, stopping, troubleshooting, servicing, and maintaining equipment.
- h. All tests shall be recorded, stating the wire circuit reading, date, and field conditions.

METHOD OF MEASUREMENT

The quantity of this item to be furnished and installed shall be measured for payment as a unit price per each for the electric gate and shall include all materials, equipment, cable, conduit, grounding, labor, utility coordination, tools, connections, and other incidentals as required to perform the specified work and testing the unit for satisfactory operation. The quantity of 3/C #8 XLP-USE, in unit duct will be paid for under Item AR108658. All other wiring associated with the gate operator system shall be incidental to Item AR162724 Electric Gate-24', and no additional compensation will be made. The quantity of 4-in. duct installed by directional boring method shall be paid for under Item AR110014. All other conduit associated with the electric gate shall be incidental to Item AR162724 Electric Gate-24', and no additional compensation will be made.

BASIS OF PAYMENT

Payment will be made at the contract unit price per each for the electric gate and shall be full compensation for all materials, labor, and equipment required to perform the specified work and testing the units for satisfactory operation, and no additional compensation will be allowed.

Payment will be made under:

Item AR162724 Electric Gate-24' – per each

ITEM AR401910
REMOVE & REPLACE BITUMINOUS PAVEMENT

DESCRIPTION

This item shall consist of full depth removal and replacement of bituminous pavement sections within the construction limits for the drainage pipe installations and inlet removal and replacement. The pavement areas removed shall be replaced with 6 in. of bituminous base course material, and 2 in. of bituminous surface course material. The pavement area to be removed and replaced is identified on the Plans. The existing pavement is comprised of approximately 4 in. of bituminous material and aggregate base course material.

MATERIALS

Bituminous Material. The bituminous base course material will comply with item AR201610 for materials and construction methods. The Bituminous surface course material will comply with item AR401610 for materials and construction methods.

CONSTRUCTION METHODS

The areas to be replaced shall be sawed full depth and the material excavated to a depth that a suitable subgrade is identified and accepted by the Resident Engineer. All loose material will be removed and the bottom tamped. The excavated material will be removed from the airport site and disposed of at the Contractor's expense. The bituminous surface and base course material will be placed in lifts of 3 in. maximum compacted thickness. The bituminous material will be compacted to a minimum density of 91 percent of the maximum theoretical specific gravity.

METHOD OF MEASUREMENT

The quantity of removed and replaced bituminous pavement to be paid for shall be the number of sq. yds. completed, accepted, and measured in-place by the Resident Engineer.

BASIS OF PAYMENT

This item of work will be paid for at the contract unit bid price per sq. yd. to remove and replace bituminous pavement, which price shall be full compensation for all sawing, removal, disposal of waste material, placing bituminous surface and base material for furnishing all materials, labor, equipment, and incidentals necessary to complete this item of work.

Payment will be made under:

Item AR401910 Remove & Replace Bit. Pavement - per sq. yd.

ITEM AR501604
4" PCC SIDEWALK

DESCRIPTION

Work under this item shall consist of the construction of a concrete sidewalk on a granular subbase constructed in accordance with these Specifications and conforming to the lines and grades as shown on the Construction Plans. The sidewalk shall be at the width shown on the Plans and 4 in. thick.

MATERIALS

Materials shall conform to the following requirements:

Concrete. The concrete shall be in accordance with Item 610. Ready mixed concrete or transit mixed concrete will be permitted if used within sixty (60) minutes after the initial adding of water to the dry mixture.

Coarse Aggregate. The coarse aggregate shall meet the requirements of Item 610.

Cement. The cement shall be air-entraining Portland cement. The air content shall be from 5 percent to 7 percent, and the slump from 1-1/2 in. to 2-1/2 in.

Expansion Joints. Pre-molded joint material for expansion joints shall meet the requirements of AASHO M33.

Granular Subbase. The granular subbase shall be a gravel material approved by the Project Engineer.

CONSTRUCTION METHODS

Subbase Preparation. A 4-in. granular bedding will be placed on the compacted subgrade. The cost of the subbase preparation shall be incidental to the bid price per sq. ft of sidewalk.

Placing. The forms, mixing, placing, finishing, and curing of concrete shall conform to the requirements of the Specifications for 610 Structural Portland Cement concrete and to the following requirements:

Where the concrete sidewalk meets the existing and new bituminous pavements, the edge of the pavements will be sawed vertical to create a smooth surface to abut the surfaces.

The concrete shall be tamped and spaded until it is consolidated and mortar entirely covers and forms the top surface. The surface of the concrete shall be floated smooth and edges rounded.

The concrete shall be placed with dummy grooved joints spaced not more than 4 ft apart.

The finished surface of the proposed sidewalk will have a light broom finish.

Forms shall not be removed until 24 hours after the concrete has been placed. Minor defects shall be repaired with mortar containing one part cement and two parts aggregate.

The operations of depositing, compacting, and finishing the item shall be conducted so as to build a satisfactory structure. If any section of concrete is found to be porous, other than minor defects which may be plastered or is otherwise defective, it shall be removed and replaced by the Contractor without additional compensation.

Cleaning and Restoration of Site. After the construction of the sidewalk is completed, the Contractor shall dispose of all surplus material, dirt, and rubbish. The Contractor shall restore all disturbed areas to their original condition. After all work is completed, the Contractor shall remove all tools and equipment, leaving the entire site free, clear, and in good condition. Performance of the work described in this section will be considered incidental and will be paid for under the contract unit price for sidewalk.

METHOD OF MEASUREMENT

The concrete sidewalk will be measured in sq. ft in accordance with the dimensions shown on the Plans or as ordered by the Project Engineer.

BASIS OF PAYMENT

The accepted quantities of concrete sidewalk will be paid for at the contract unit price per sq. ft, completed in-place.

Payment will be made under:

Item AR501604 4" PCC Sidewalk - per sq. ft

ITEM AR501910
REMOVE & REPLACE PCC PAVEMENT

DESCRIPTION

This item of work shall consist of concrete pavement removal and replacement. The roadway median concrete pavement and concrete curbs as shown on sheet 6 of the Construction Plans will be removed and disposed of off the airport site. The roadway pavement to be removed is approximate 8-in. PCC concrete. The thickness of the island median pavement is unknown. Where the existing concrete to be removed abuts the pavement to remain in-place, the concrete will be sawed full depth. All removal areas will be marked in the field by the Resident Engineer. The median pavement and adjacent roadway curb and pavement removed will be replaced with 610 Structural Portland Cement Concrete. The pavement thickness and aggregate base material thickness is specified on sheet 6 in the Construction Plans.

MATERIALS

Concrete. The concrete used for this item shall be 610 Structural Portland Cement Concrete in conformance with the Illinois Division of Aeronautics "Standard Specifications for Construction of Airports" and the Special Provisions. The concrete shall obtain a minimum of 3,200 psi before applying any equipment or vehicle loads on top of the surface. The Contractor may submit a mix design with recent substantiating test data, or he may submit a mix design generated by the Illinois Division of Highways with recent substantiating test data for approval consideration. The mix design shall be submitted to the Illinois Division of Aeronautics, Materials Section for approval a minimum of two (2) weeks prior to beginning work on this item.

Dowels. The dowel bars shall be 3/4 in. in diameter, 18 in. in length, and spaced 12 in. on center. The dowel bars shall be round bars conforming to the requirements of AASHTO M 227M, grades 70 through 80, and painted with red oxide or zinc chromate one-coat shop paint. The dowel bars will be anchored into the existing concrete using a chemical adhesive.

Chemical Adhesive. The chemical adhesive resin system shall consist of a 2-part, fast setting resin and filler/hardener, and must be on the Illinois Department of Transportation's most recent Approved Chemical Adhesives List (The latest list is available through the Materials Section of the Division of Aeronautics). The adhesive shall be mixed in accordance with the manufacturer's instructions. After drilling, the hole shall be blown out with compressed air to remove any dust. The hole shall also be dry before installing the dowels. The adhesive shall be injected into the hole in a manner that fills from the back of the hole to approximately one third of its depth.

Curing Compound. The curing compound shall be an emulsion white curing compound approved by the Illinois Department of Transportation.

CONSTRUCTION METHODS

The areas to be replaced shall be sawed full depth and the material excavated to a depth that a suitable subgrade is identified and accepted by the Resident Engineer. All loose material will be removed and the bottom tamped. The excavated material will be removed from the airport site and disposed of at the Contractor's expense. The Contractor will drill holes and set the dowels at the required spacing. However, if the Resident Engineer determines certain sections of the existing concrete are not structurally sound for the installation of the dowels, the dowels will be omitted in those areas. The concrete will be vibrated in-place and finished flush with the top of the existing pavement. Curing compound shall be applied to the finished surface. Barricades and/or traffic cones shall be placed around the pavement repair areas until the concrete has obtained the required strength.

METHOD OF MEASUREMENT

The quantity of removed and replaced concrete pavement to be paid for shall be the number of sq. yds. completed, accepted, and measured in-place by the Resident Engineer.

BASIS OF PAYMENT

This item of work will be paid for at the contract unit bid price per sq. yd. to remove and replace concrete pavement, which price shall be full compensation for all sawing, removal, disposal of waste material, placing the dowels and concrete; for furnishing all materials, labor, equipment, and incidentals necessary to complete this item of work.

Payment will be made under:

Item AR501910 Remove & Replace PCC Pavement - per sq. yd.

ITEM AR751900
REMOVE INLET

GENERAL

701-1.0 General. The Type A inlet shown on the Proposed Drainage Plan in the Construction Plans will be removed and disposed of off site. The approximate depth of the structure is 4 ft from the flowlines to the top of the structure.

CONSTRUCTION METHODS

701-2.0 Construction Method. The inlet will be separated from the down stream flow pipe in such a manner as to not damage the pipe to remain in-place. The inlet and waste material, as a result of removing the inlet, will be disposed off the airport site. Sawing of pavement, pavement removal and replacement, inlet replacement, and backfilling will be paid for by other items of work.

BASIS OF PAYMENT

701-3.0. Payment will be made at the contract unit price per each inlet removed and disposed of off site. This price shall be full compensation for furnishing all materials; for all preparation and excavation; for installing these materials; for backfill material; and for all labor, equipment, tools, and incidentals necessary to complete this item.

Payment will be made under:

Item AR751900 Remove Inlet – per each

ITEM AR752
CONCRETE CULVERTS, HEADWALLS, AND MISCELLANEOUS
DRAINAGE AND STRUCTURES

DESCRIPTION

752-1.1. Add the following:

“This item shall consist of furnishing and installing precast, reinforced concrete end sections of the diameter specified. The end sections for the 6-in and 8-in. PVC pipe will be in accordance to Illinois Department of Transportation; Highways, Standard Drawing 601101. The end section for the 12-in. and 18-in. RCP will be in accordance to Illinois Department of Transportation; Highways, Standard 542301.”

METHOD OF MEASUREMENT

752-4.1. Add the following:

“The end sections for the 6-in. and 8-in. diameter PVC pipe will be measured as precast, reinforced concrete, flared end section 12 in. – per each.”

BASIS OF PAYMENT

752-5.1. Payment will be made under:

Item AR752412 Precast Reinforced Concrete FES 12” – per each
Item AR752415 Precast Reinforced Concrete FES 15” – per each
Item AR752418 Precast Reinforced Concrete FES 18” – per each

Standard 601101

Standard 542301

ITEM AR760
6" & 8" DUCTILE IRON WATER MAIN

DESCRIPTION

This item shall consist of furnishing and installing 6-in. and 8-in. ductile iron pipe at the locations and to the grades as shown on the Construction Plans. Also included as a part of this item shall be trench excavation, thrust blocks, cradle construction, mechanical joints, (bends, tees), granular and earth backfill, 4-in. pipe bedding, plugs, testing, and disinfecting.

All bends and tees required to maintain the designated horizontal and vertical pipe alignment will be considered as an incidental item to the 6-in. and 8-in. ductile iron pipe, and no additional compensation will be allowed. For 6-in. and 8-in. water main and appurtenances, trench excavation, backfilling with earth excavation and granular backfill, 4-in. pipe bedding, compacting, and wasting off-site excess earth material shall be considered as incidental work items to the 6-in. and 8-in. ductile iron water main.

GENERAL

Specification references made herein for manufactured pipe and fittings refer to designations for American Water Works Association (AWWA), as they are effective on the date of call for bids.

Copies of these publications may be obtained at nominal cost from the American Water Works Association, 6666 West Quincy Avenue, Denver, Colorado.

All materials, pipe installation, construction methods, pressure testing, and disinfecting will be completed in accordance with the Standard Specifications for Water & Sewer Main Construction in Illinois, current edition, and the Village of Bethalto, except as modified by the Plans and the Standard Specification for Construction of Airports and the Special Provisions.

All ductile iron water line pipe shall be supplied with a location wire. The wire will be 12 Ga. Insulated, solid copper wire. All splices shall be telegraph tied with a rubber tape seal. The placement of the wire shall conform to Village of Bethalto's standard drawing number 9.

METHOD OF MEASUREMENT

The quantity of 6-in. and 8-in. ductile iron water main pipe to be paid for shall be the number of lin. ft of pipe installed, completed, and accepted.

BASIS OF PAYMENT

Payment will be made at the contract unit price bid for 6-in. and 8-in. ductile iron water main pipe. This price shall be full compensation for furnishing all materials, labor, equipment, and tools required to install pipe, thrust blocks, testing, make connections; fittings, cradles, backfilling, bedding, location wire, disinfecting, and for all incidentals necessary to complete this item of work.

Payment will be made under:

Item AR760506 6" Ductile Iron Water Main - per lin. ft

Item AR760508 8" Ductile Iron Water Main - per lin. ft

ITEM AR760716
16" STEEL CASING

DESCRIPTION

This item of work shall consist of furnishing and placing steel casing pipe for the water main at the locations and to the elevations shown on the Construction Plans.

MATERIALS

The waterline casing will be 16-in. steel, type 4, seamless casing pipe. The pipe shall meet the requirements of ASTM 589-89A, Type A, black, butt welded.

CONSTRUCTION METHODS

This work item shall consist of placing the 16-in. steel casing pipe at the locations shown on the Construction Plans. The Contractor shall excavate a suitable trench along the water line centerline. The casing pipe will be placed so that the end of the pipe is a minimum perpendicular distance of 10 ft from the adjacent storm or sanitary sewer. The water pipe placed inside the casing pipe will be paid for under item AR760508 8" Ductile Iron Water Main. The backfilling for the casing pipe will be completed as detailed for trench backfill for waterline pipe as detailed in the Construction Plans. The ends of the casing pipes are to be sealed and water-tight.

METHOD OF MEASUREMENT

The quantity of steel casing to be paid for shall be the number of lin. ft of pipe installed, completed, and accepted.

BASIS OF PAYMENT

Payment will be made at the contract unit price per lin. ft of pipe of the class and size designated. This price shall be full compensation for furnishing all materials; for all preparation and excavation; for installing these materials; for granular bedding and backfill materials; and for all labor, equipment, tools, and incidentals necessary to complete this item.

Payment will be made under:

Item AR760716 16" Steel Casing - per lin. ft

ITEM AR760800
FIRE HYDRANT

DESCRIPTION

These Specifications are to be used in conjunction with the AWWA Standard C502 for fire hydrants for ordinary water works service. The hydrants shall be furnished completed with valves, valve boxes, ductile iron feeder pipe, and tees. The hydrant installation and details will be in accordance to the Village of Bethalto's standard drawing numbers 9 and 10.

GENERAL

The hydrants, valves, valve boxes, connections, testing, construction details and methods, and painting shall be completed in accordance with the Standard Specifications for Water & Sewer Main Construction in Illinois current edition, the Village of Bethalto Specifications, and the Special Provisions stated on the Plans.

METHOD OF MEASUREMENT

The number of valved fire hydrants to be paid for shall be the number of hydrants installed and accepted by the Resident Engineer.

BASIS OF PAYMENT

Payment will be made at the contract unit bid price for valved fire hydrants, including an adjacent 6-in. valve and valve box, and the 6-in. ductile iron pipe between the exterior valve and the hydrant. This price shall be full compensation for furnishing all labor, equipment, materials, and tools necessary to excavate, install and backfill; and for all incidentals necessary to complete this item.

Payment will be made under:

Item AR760800 Fire Hydrant - per each

Exhibit D

Exhibit F

ITEM AR760861
TAPPING VALVE & SLEEVE

DESCRIPTION

This item of work will consist of the installation of a MJ tapping valves and sleeves. The sizes and locations of the tapping valves are shown on the Plans. A valve box will be provided with each of the valves. The tapping valve will allow for a connection to existing water lines while under pressure. The tapping sleeve and valve will be rated for 200 PSI water working pressure.

CONSTRUCTION METHODS

The Contractor will notify the Village of Bethalto's Engineer prior to making a connection to the existing water line. The Contractor is required to expose the existing water line for the connection to verify the outside wall diameter prior to ordering the tapping valves. The thrust blocks and backfilling will be identical to that shown on drawing number 10 for the fire hydrant detail.

METHOD OF MEASUREMENT

The number of tapping valves and sleeves to be paid for shall be the number installed and accepted by the Resident Engineer.

BASIS OF PAYMENT

Payment will be made at the contract unit price bid for each MJ tapping valve and sleeve valve completed and in-place. This price shall be full compensation for furnishing all materials, including the tapping valve and valve box, and for all preparation, excavation, backfilling, and placing of the materials; and for all labor, equipment, tools, and incidentals necessary to complete the structure.

Payment will be made under:

Item AR760861 8" x 8" Tapping Valve & Sleeve- per each

ITEM AR760965
RELOCATED FIRE HYDRANT

DESCRIPTION

Once the existing 6-in. and 8-in. water main is taken out of service, the Contractor will disconnect the hydrants that are noted for removal from the existing water line without damage to the hydrants. The removed hydrant and valve and valve box will be installed into the installed water line at the location detailed on the Plans.

CONSTRUCTION METHODS

The holes that remain as a result of the hydrants removal will be filled. Existing thrust blocks and aggregate for the hydrants can remain in-place. For hydrants located in pavement areas, the holes will be filled with a CA-6 material and compacted and a pavement placed over the aggregate material similar to the adjacent pavement. For hydrants located in turf areas, the holes will be filled with soil material and compacted, graded, and seeded according to the Specifications seeding requirements.

The hydrant installation and details will be in accordance to the Village of Bethalto's standard drawing numbers 9 and 10. The hydrants, valves, valve boxes, connections, testing, construction details and methods, and painting shall be completed in accordance with the Standard Specifications for Water & Sewer Main Construction in Illinois current edition, the Village of Bethalto Specifications, and the Special Provisions stated on the Plans.

METHOD OF MEASUREMENT

The number of hydrants relocated to be paid for will be the number removed and relocated and accepted by the Resident Engineer.

BASIS OF PAYMENT

Payment will be made at the contract unit price bid for each relocated fire hydrant, and work completed and accepted by the Resident Engineer. This price shall be full compensation for all materials and for all preparation, removal, back filling, transporting, and for all labor, equipment, tools, and incidentals necessary to complete the relocation.

Payment will be made under:

Item AR760965 Relocate Fire Hydrant - per each

ITEM AR910200
ROADWAY SIGN

DESCRIPTION

This item of work shall consist of installing roadway signs on Airline Drive and proposed access road to the T-hangars, as shown on the Construction Plans and as determined by the Village of Bethalto Engineering Department. The proposed signs shall consist of the following:

- 1 Do Not Enter
- 1 Keep Right
- 1 Stop Sign

CONSTRUCTION METHODS

The Contractor shall install the proposed signs at the locations shown on the Construction Plans and in compliance with the Federal Highway Administrations' Manual on Uniform Traffic Control Devices, as well as the Illinois Department of Transportations' Standard Specifications for Traffic Control Items. In the event of a conflict in construction requirements or procedures, the more stringent policy will govern.

METHOD OF MEASUREMENT

The quantity of signs to be paid for shall be the number of signs installed and accepted by the Resident Engineer.

BASIS OF PAYMENT

Payment will be made at the contract unit bid price for signs per each; payment shall constitute full compensation for furnishing all materials, equipment, labor, and all incidentals necessary to complete the item of work.

Payment will be made under:

Item AR910200 Roadway Sign – per each

ITEM AR910410
PARKING BLOCK

DESCRIPTION

This item of work shall consist of furnishing and installing concrete parking blocks, as shown on the Construction Plans. The blocks shall be painted and anchored to the pavement with a smooth steel pin.

MATERIALS

Parking blocks shall be standard, manufactured, formed concrete parking blocks with a minimum of two anchor holes provided.

CONSTRUCTION METHODS

The pointed, smooth, steel pins shall be driven through the holes provided into the proposed pavement to anchor the blocks. Bars shall be driven flush with the top of the concrete block. No damaged or cracked parking blocks will be accepted.

PAINTING

The parking blocks will be painted yellow in color with yellow highway traffic paint.

METHOD OF MEASUREMENT

The quantity of concrete parking blocks to be paid for shall be the number of each furnished, installed, anchored, and accepted by the Resident Engineer.

BASIS OF PAYMENT

Payment will be made at the contract unit price bid for parking blocks. This price shall be full compensation for furnishing all labor, equipment, and tools necessary to install and anchor the blocks, provide parking blocks, painting, and for all incidentals necessary to complete this item of work.

Payment will be made under:

Item AR910410 Parking Block - per each

ILLINOIS DEPARTMENT OF LABOR

PREVAILING WAGES FOR MADISON COUNTY EFFECTIVE APRIL 1, 2005

These Prevailing rates of wages are included in this Contract proposal which is 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 this Contract, not less than the rates of wages ascertained by the Illinois Department of Labor and as revised during the performance of the Contract shall be paid to all laborers, workers and mechanics performing work under the Contract. Post this 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 this 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.

Madison County Prevailing Wage for April 2005

Trade Name Trng	RG	TYP	C	Base	FRMAN	*M-F>8	OSA	OSH	H/W	Pensn	Vac
ASBESTOS ABT-GEN 0.500	NW	ALL		22.250	22.750	1.5	1.5	2.0	4.600	6.300	0.000
ASBESTOS ABT-GEN 0.500	SE	ALL		22.400	22.900	1.5	1.5	2.0	4.750	6.000	0.000
ASBESTOS ABT-MEC 0.000		BLD		24.010	25.010	1.5	1.5	2.0	2.920	4.320	0.000
BOILERMAKER 0.210		BLD		27.000	29.500	1.5	1.5	2.0	7.020	10.21	0.000
BRICK MASON 0.370		BLD		24.970	26.590	1.5	1.5	2.0	4.100	7.400	2.000
CARPENTER 0.350		ALL		29.030	30.530	1.5	1.5	2.0	4.450	3.250	0.000
CEMENT MASON 0.100		ALL		25.450	26.200	1.5	1.5	2.0	4.850	7.250	0.000
CERAMIC TILE FNSHER 0.250		BLD		21.750	0.000	1.5	1.5	2.0	4.600	3.850	0.000
ELECTRIC PWR EQMT OP 0.140	NW	ALL		27.580	33.960	1.5	2.0	2.0	5.150	6.070	0.000
ELECTRIC PWR EQMT OP 0.150	SE	ALL		29.820	35.940	1.5	2.0	2.0	4.120	7.450	0.000
ELECTRIC PWR GRNDMAN 0.090	NW	ALL		18.810	33.960	1.5	2.0	2.0	5.150	4.140	0.000
ELECTRIC PWR GRNDMAN 0.110	SE	ALL		22.260	35.940	1.5	2.0	2.0	3.080	5.570	0.000
ELECTRIC PWR LINEMAN 0.160	NW	ALL		32.020	33.960	1.5	2.0	2.0	5.150	7.040	0.000
ELECTRIC PWR LINEMAN 0.170	SE	ALL		34.280	35.940	1.5	2.0	2.0	4.740	8.570	0.000
ELECTRIC PWR TRK DRV 0.100	NW	ALL		20.520	33.960	1.5	2.0	2.0	5.150	4.520	0.000
ELECTRIC PWR TRK DRV 0.120	SE	ALL		24.340	35.940	1.5	2.0	2.0	3.370	6.080	0.000
ELECTRICIAN 0.200	NW	ALL		29.040	31.040	1.5	1.5	2.0	5.150	6.520	0.000
ELECTRICIAN 0.460	SE	ALL		30.570	32.400	1.5	1.5	2.0	4.740	5.800	0.000
ELECTRONIC SYS TECH 0.460	NW	BLD		22.990	24.490	1.5	1.5	2.0	5.150	3.640	0.000
ELECTRONIC SYS TECH 0.450	SE	BLD		22.610	24.110	1.5	1.5	2.0	2.800	3.180	1.750
ELEVATOR CONSTRUCTOR 0.000		BLD		32.700	36.790	2.0	2.0	2.0	7.275	3.420	1.960
FLOOR LAYER 0.330		BLD		25.220	25.970	1.5	1.5	2.0	4.450	3.250	0.000
GLAZIER 0.160		BLD		28.730	0.000	2.0	2.0	2.0	7.150	5.920	2.300
HT/FROST INSULATOR 0.000		BLD		28.790	29.790	1.5	1.5	2.0	4.250	7.360	0.000
IRON WORKER 0.420		ALL		24.540	26.040	1.5	1.5	2.0	5.710	7.750	0.000

LABORER 0.500	NW ALL	21.750	22.250	1.5	1.5	2.0	4.600	6.300	0.000
LABORER 0.500	SE ALL	21.900	22.400	1.5	1.5	2.0	4.750	6.000	0.000
MACHINIST 0.000	BLD	33.230	34.980	2.0	2.0	2.0	3.200	3.600	2.290
MARBLE FINISHERS 0.250	BLD	21.750	0.000	1.5	1.5	2.0	4.600	3.850	0.000
MARBLE MASON 0.370	BLD	24.970	26.590	1.5	1.5	2.0	4.100	7.400	2.000
MILLWRIGHT 0.350	ALL	29.030	30.530	1.5	1.5	2.0	4.450	3.250	0.000
OPERATING ENGINEER 1.000	ALL 1	24.650	25.780	1.5	1.5	2.0	5.600	9.900	0.000
OPERATING ENGINEER 1.000	ALL 2	23.520	25.780	1.5	1.5	2.0	5.600	9.900	0.000
OPERATING ENGINEER 1.000	ALL 3	19.040	25.780	1.5	1.5	2.0	5.600	9.900	0.000
OPERATING ENGINEER 1.000	ALL 4	19.100	25.780	1.5	1.5	2.0	5.600	9.900	0.000
OPERATING ENGINEER 1.000	ALL 5	18.770	25.780	1.5	1.5	2.0	5.600	9.900	0.000
OPERATING ENGINEER 1.000	ALL 6	25.200	25.780	1.5	1.5	2.0	5.600	9.900	0.000
OPERATING ENGINEER 1.000	ALL 7	25.500	25.780	1.5	1.5	2.0	5.600	9.900	0.000
OPERATING ENGINEER 1.000	ALL 8	25.780	25.780	1.5	1.5	2.0	5.600	9.900	0.000
PAINTER 0.350	BLD	23.800	24.800	1.5	1.5	2.0	3.900	5.150	0.000
PAINTER 0.350	HWY	25.000	26.000	1.5	1.5	2.0	3.900	5.150	0.000
PAINTER OVER 30FT 0.350	BLD	24.800	25.800	1.5	1.5	2.0	3.900	5.150	0.000
PAINTER PWR EQMT 0.350	BLD	24.800	25.800	1.5	1.5	2.0	3.900	5.150	0.000
PAINTER PWR EQMT 0.350	HWY	26.000	27.000	1.5	1.5	2.0	3.900	5.150	0.000
PILEDRIIVER 0.350	ALL	29.030	30.530	1.5	1.5	2.0	4.450	3.250	0.000
PIPEFITTER 0.000	N BLD	29.000	30.250	2.0	2.0	2.0	5.350	4.950	0.000
PIPEFITTER 0.400	S BLD	28.000	30.000	1.5	1.5	2.0	5.200	6.840	0.000
PLASTERER 0.250	BLD	25.300	26.300	1.5	1.5	2.0	4.850	6.750	0.000
PLUMBER 0.000	N BLD	29.000	30.250	2.0	2.0	2.0	5.350	4.950	0.000
PLUMBER 0.300	S BLD	29.200	31.700	1.5	1.5	2.0	4.550	4.700	0.000
ROOFER 0.200	BLD	25.250	27.250	1.5	1.5	2.0	5.200	5.300	0.000
SHEETMETAL WORKER 0.120	ALL	26.470	27.720	1.5	1.5	2.0	5.750	4.310	1.580
SPRINKLER FITTER 0.400	BLD	31.080	33.080	2.0	2.0	2.0	5.900	5.850	0.000

TERRAZZO FINISHER 0.000	BLD	29.550	0.000	1.5	1.5	2.0	0.000	0.000	0.000
TERRAZZO MASON 0.000	BLD	29.050	29.350	1.5	1.5	2.0	0.000	3.750	0.000
TRUCK DRIVER 0.000	ALL 1	24.385	0.000	1.5	1.5	2.0	6.500	2.850	0.000
TRUCK DRIVER 0.000	ALL 2	24.785	0.000	1.5	1.5	2.0	6.500	2.850	0.000
TRUCK DRIVER 0.000	ALL 3	24.985	0.000	1.5	1.5	2.0	6.500	2.850	0.000
TRUCK DRIVER 0.000	ALL 4	25.235	0.000	1.5	1.5	2.0	6.500	2.850	0.000
TRUCK DRIVER 0.000	ALL 5	25.985	0.000	1.5	1.5	2.0	6.500	2.850	0.000
TRUCK DRIVER 0.000	O&C 1	19.508	0.000	1.5	1.5	2.0	6.500	2.850	0.000
TRUCK DRIVER 0.000	O&C 2	19.828	0.000	1.5	1.5	2.0	6.500	2.850	0.000
TRUCK DRIVER 0.000	O&C 3	19.988	0.000	1.5	1.5	2.0	6.500	2.850	0.000
TRUCK DRIVER 0.000	O&C 4	20.188	0.000	1.5	1.5	2.0	6.500	2.850	0.000
TRUCK DRIVER 0.000	O&C 5	20.788	0.000	1.5	1.5	2.0	6.500	2.850	0.000

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

MADISON COUNTY

ELECTRICIANS AND ELECTRIC SYSTEMS TECHNICIAN (NORTHWEST) - Townships of Godfrey, Foster and Wood River, and the western one mile of Moro, Ft. Russell and Edwardsville, south to the north side of Hwy. 66 and west to the Mississippi River. This includes SIU-Edwardsville Dental Facility and Alton Mental Health Hospital.

ELECTRICIANS AND ELECTRIC SYSTEMS TECHNICIAN (SOUTHEAST) - Remainder

of county not covered by ELECTRICIANS AND ELECTRIC SYSTEMS TECHNICIAN (NW) including SIU-Edwardsville Main Campus.

LABORERS (NORTHWEST) - That area northwest of a diagonal line running from the Mississippi River at the intersection of the waterway known as Wood River at Maple Island, northeast through the highway intersection of Illinois Routes 3 and 143 and following the boundary of Alton/East Alton, then preceding northeast to the county line at a point approximately one mile west of Illinois Route 159.

PLUMBERS AND PIPEFITTERS (SOUTH) - That part of the county South of a line between Mitchell and Highland including the town of Glen Carbon.

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

Oil and chip resealing (O&C) means the application of road oils and liquid asphalt to coat an existing road surface, followed by application of aggregate chips or gravel to coated surface, and subsequent rolling of material to seal the surface.

EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material/mold and hazardous materials from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold and hazardous materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close future date.

ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical systems are to remain.

CERAMIC TILE FINISHER AND MARBLE FINISHER

The handling, at the building site, of all sand, cement, tile, marble or stone and all other materials that may be used and installed by [a] tile layer or marble mason. In addition, the grouting, cleaning, sealing, and mixing on the job site, and all other work as required in assisting the setter. The term "Ceramic" is used for naming the classification only and is in no way a limitation of the product handled. Ceramic takes into consideration most hard tiles.

COMMUNICATIONS TECHNICIAN

Installing telephones; installing, testing, and troubleshooting voice circuits, installing station sets, including blocks and associated wiring; responsible for cross connects in IDF's (wiring closets); programming PBX switches and associated peripheral equipment; moving,

adding, changing activities for customer owned PBX locations; and, installing voice trunks for various local exchange carriers. All work associated with these system installations will be included except: (1) the installation of protective metallic conduit; and (2) 120 volt AC (or higher) power wiring and associated hardware. With respect to the pulling of telephone wire, said work is not to include work associated with new construction or major renovation (substantially altering existing fixed structural floor plans), but not to include altering free standing office partitions. Nothing in this definition shall be construed as including work historically performed by persons properly classified as wiremen or telecommunication workers.

ELECTRONIC SYSTEMS TECHNICIAN

Installation, service and maintenance of low-voltage systems which utilizes the transmission and/or transference of voice, sound, vision, or digital for commercial, education, security and entertainment purposes for the following: TV monitoring and surveillance, background/foreground music, intercom and telephone interconnect, field programming, inventory control systems, microwave transmission, multi-media, multiplex, radio page, school, intercom and sound burglar alarms and low voltage master clock systems.

Excluded from this classification are energy management systems, life safety systems, supervisory controls and data acquisition systems not intrinsic with the above listed systems, fire alarm systems, nurse call systems and raceways exceeding fifteen feet in length.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION

Class 1. Drivers on 2 axle trucks hauling less than 9 ton. Air compressor and welding machines and brooms, including those pulled by separate units, truck driver helpers, warehouse employees, mechanic helpers, greasers and tiremen, pickup trucks when hauling materials, tools, or workers to and from and on-the-job site, and fork lifts up to 6,000 lb. capacity.

Class 2. Two or three axle trucks hauling more than 9 ton but hauling less than 16 ton. A-frame winch trucks, hydrolift trucks, vector trucks or similar equipment when used for transportation purposes. Fork lifts over 6,000 lb. capacity, winch trucks, four axle combination units, and ticket writers.

Class 3. Two, three or four axle trucks hauling 16 ton or more. Drivers on water pulls, articulated dump trucks, mechanics and working forepersons, and dispatchers. Five axle or more combination units.

Class 4. Low Boy and Oil Distributors.

Class 5. Drivers who require special protective clothing while employed on hazardous waste work.

TRUCK DRIVER - OIL AND CHIP RESEALING ONLY.

This shall encompass laborers, workers and mechanics who drive contractor or subcontractor owned, leased, or hired pickup, dump, service, or oil distributor trucks. The work includes transporting materials and equipment (including but not limited to, oils, aggregate

supplies, parts, machinery and tools) to or from the job site; distributing oil or liquid asphalt and aggregate; stock piling material when in connection with the actual oil and chip contract. The Truck Driver (Oil & Chip Resealing) wage classification does not include supplier delivered materials.

OPERATING ENGINEERS

GROUP I. Cranes, Dragline, Shovels, Skimmer Scoops, Clamshells or Derrick Boats, Pile Drivers, Crane-Type Backhoes, Asphalt Plant Operators, Concrete Plant Operators, Dredges, Asphalt Spreading Machines, All Locomotives, Cable Ways, or Tower Machines, Hoists, Hydraulic Backhoes, Ditching Machines or Backfiller, Cherrypickers, Overhead Cranes, Roller, Steam or Gas, Concrete Pavers, Excavators, Concrete Breakers, Concrete Pumps, Bulk Cement Plants, Cement Pumps, Derrick-Type Drills, Boat Operators, Motor Graders or Pushcats, Scoops or Tournapulls, Bulldozers, Endloaders or Fork Lifts, Power Blade or Elevating Graders, Winch Cats, Boom or Winch Trucks or Boom Tractors, Pipe Wrapping or Painting Machines, Asphalt Plant Engineer, Journeyman Lubricating Engineer, Drills (other than Derrick Type), Mud Jacks, or Well Drilling Machines, Boring Machines or Track Jacks, Mixers, Conveyors (Two), Air Compressors (Two), Water Pumps regardless of size (Two), Welding Machines (Two), Siphons or Jets (Two), Winch Heads or Apparatuses (Two), Light Plants (Two), Waterblasters (two), All Tractors regardless of size (straight tractor only), Fireman on Stationary Boilers, Automatic Elevators, Form Grading Machines, Finishing Machines, Power Sub-Grader or Ribbon Machines, Longitudinal Floats, Distributor Operators on Trucks, Winch Heads or Apparatuses (One), Mobil Track air and heaters (two to five), Heavy Equipment Greaser, Relief Operator, Assistant Master Mechanic and Heavy Duty Mechanic, all Operators (except those listed below).

GROUP II. Assistant Operators.

GROUP III. Air Compressors (One), Water Pumps, regardless of Size (One), Waterblasters (one), Welding Machine (One), Mixers (One Bag), Conveyor (One), Siphon or Jet (One), Light Plant (One), Heater (One), Immobile Track Air (One), and Self Propelled Walk-Behind Rollers.

GROUP IV. Asphalt Spreader Oilers, Fireman on Whirlies and Heavy Equipment Oilers, Truck Cranes, Dredges, Monigans, Large Cranes - (Over 65-ton rated capacity) Concrete Plant Oiler, Blacktop Plant Oiler, and Creter Crane Oiler (when required).

GROUP V. Oiler.

GROUP VI. Master Mechanics, Operators on equipment with Booms, including jibs, 100 feet and over, and less than 150 feet long.

GROUP VII. Operators on equipment with Booms, including jibs, 150 feet and over, and less than 200 feet long.

GROUP VIII. Operators on Equipment with Booms, including jibs, 200 feet and over; Tower Cranes; Whirlie Cranes; and Operator Foreman.

TERRAZZO FINISHER

The handling of all materials used for Mosaic and Terrazzo work

including preparing, mixing by hand, by mixing machine or transporting of pre-mixed materials and distributing with shovel, rake, hoe, or pail, all kinds of concrete foundations necessary for Mosaic and Terrazzo work, all cement terrazzo, magnesite terrazzo, Do-O-Tex terrazzo, epoxy matrix ter-razzo, exposed aggregate, rustic or rough washed for exterior or interior of buildings placed either by machine or by hand, and any other kind of mixture of plastics composed of chips or granules when mixed with cement, rubber, neoprene, vinyl, magnesium chloride or any other resinous or chemical substances used for seamless flooring systems, and all other building materials, all similar materials and all precast terrazzo work on jobs, all scratch coat used for Mosaic and Terrazzo work and sub-bed, tar paper and wire mesh (2x2 etc.) or lath. The rubbing, grinding, cleaning and finishing of same either by hand or by machine or by terrazzo resurfacing equipment on new or existing floors. When necessary finishers shall be allowed to assist the mechanics to spread sand bed, lay tarpaper and wire mesh (2x2 etc.) or lath. The finishing of cement floors where additional aggregate of stone is added by spreading or sprinkling on top of the finished base, and troweled or rolled into the finish and then the surface is ground by grinding machines.

Other Classifications of Work:

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