INSTRUCTIONS

ABOUT IDOT PROPOSALS: All proposals are potential bidding proposals. Each proposal contains all certifications and affidavits, a proposal signature sheet and a proposal bid bond.

PREQUALIFICATION

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

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.

REQUESTS FOR AUTHORIZATION TO BID

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

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

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

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

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

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

IDOT IS NOT RESPONSIBLE FOR ANY E-MAIL FAILURES.

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

Technical questions about downloading these files may be directed to Tim Garman at (217)524-1624 or Timothy.Garman@illinois.gov.

BID SUBMITTAL GUIDELINES AND CHECKLIST

In an effort to eliminate confusion and standardize the bid submission process the Contracts Office has created the following guidelines and checklist for submitting bids.

This information has been compiled from questions received from contractors and from inconsistencies noted on submitted bids. If you have additional questions please refer to the contact information listed below.

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

STANDARD GUIDELINES FOR SUBMITTING BIDS

- All pages should be single sided.
- Use the Cover Page that is provided in the Bid Proposal (posted on the IDOT Web Site) as the first page
 of your submitted bid. This page has the Item number in the upper left-hand corner and lines provided for
 your company name and address in the upper right-hand corner.
- Do not use report covers, presentation folders or special bindings and do not staple multiple times on left side like a book. Use only 1 staple in the upper left hand corner. Make sure all elements of your bid are stapled together including the bid bond or guaranty check (if required).
- Do not include any certificates of eligibility, your authorization to bid, Addendum Letters or affidavit of availability.
- Do not include the Subcontractor Documentation with your bid (pages 33-41). This documentation is required only after you are awarded the contract.
- Use the envelope cover sheet (provided with the proposal) as the cover for the proposal envelope.
- Do not rely on overnight services to deliver your proposal prior to 10 AM on letting day. It will not be read if it is delivered after 10 AM.
- Do not submit your Substance Abuse Prevention Program (SAPP) with your bid. If you are awarded the
 contract this form is to be submitted to the Division Construction Engineer at the pre-construction
 conference.

Use the following checklist to ensure completeness and the correct order in assembling your bid

☐ Illinois Office Affidavit (Not applicable to federally funded projects) Insert your affidavit after page 4 (if applicable).
□ Cover page (the sheet that has the item number on it) followed by your bid (the Pay Items). If you are using special software or CBID to generate your schedule of prices, do not include the blank schedule of prices.
□ Page 4 (Item 10) - Check "YES" if you will use a subcontractor(s). Include the subcontractor(s) name, address, general type of work to be performed and the dollar amount (if over \$50,000). If you will use subcontractor(s) but are uncertain who or the dollar amount; check "YES" but leave the lines blank.
□ Page 10 (Paragraph J) - Check "YES" or "NO" whether your company has any business in Iran.
□ Page 10 (Paragraph K) – (Not applicable to federally funded projects) List the Union Local Name and number or certified training programs that you have in place. Your bid will not be read if this is not completed. Do not include certificates with your bid. Keep the certificates in your office in case they are requested by IDOT.
□ Page 11 (Paragraph L) - A copy of your State Board of Elections certificate of registration is no longer required with your bid.
□ Page 11 (Paragraph M) – Indicate if your company has hired a lobbyist in connection with the job for which you are submitting the bid proposal.
□ Page 12 (Paragraph C) - This is a work sheet to determine if a completed Form A is required. It is not part of the form and you do not need to make copies for each Form A that is filled out.

□ Pages 14-17 (Form A) - One Form A (4 pages) is required for each applicable person in your company Copies of the Forms can be used and only need to be changed when the financial information changes. The certification signature and date must be original for each letting. Do not staple the forms together.
If you answered "NO" to all of the questions in Paragraph C (page 12), complete the first section (page 14) with your company information and then sign and date the Not Applicable statement on page 17.
□ Page 18 (Form B) - If you check "YES" to having other current or pending contracts it is acceptable to use the phrase, "See Affidavit of Availability on file". Ownership Certification (at the bottom of the page) — Check N/A is the Form A you submitted accounts for 100 percent of the company ownership. Check YES if any percentage of ownership falls outside of the parameters that require reporting on the Form A. Checking NO indicates that the Form A you submitted is not correct and you will be required to submit a revised Form A.
□ Pages 20-21 (Workforce Projection) - Be sure to include the Duration of the Project. It is acceptable to use the phrase "Per Contract Specifications".
□ Bid Bond - Submit your bid bond using the current Bid Bond Form provided in the proposal package. The Power of Attorney page should be stapled to the Bid Bond. If you are using an electronic bond, include your bid bond number on the form and attach the Proof of Insurance printed from the Surety 2000 Web Site.
□ Disadvantaged Business Utilization Plan and/or Good Faith Effort - The last item in your bid should be the DBE Utilization Plan (SBE 2026), followed by the DBE Participation Statement (SBE 2025) and supporting paperwork. If you have documentation for a Good Faith Effort, it should follow the SBE Forms.
The Bid Letting is now available in streaming Audio/Video from the IDOT Web Site. A link to the stream will be placed on the main page of the current letting on the day of the Letting. The stream will not begin until 10 AM The actual reading of the bids does not begin until approximately 10:20 AM.
Following the Letting, the As-Read Tabulation of Bids will be posted by the end of the day. You will find the link on the main page of the current letting.
QUESTIONS: pre-letting up to execution of the contract
Contractor/Subcontractor pre-qualification
QUESTIONS: following contract execution
Including Subcontractor documentation, payments217-782-3413 Railroad Insurance217-785-0275

36A

Proposal Submitted By	
Name	
Address	
City/State	9 Digit Zip Code
Telephone No.	Fax No.
Federal Employer Identification	on No. (FEIN)
Email Address	

Letting June 14, 2013

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.

BIDDERS NEED NOT RETURN THE ENTIRE PROPOSAL

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



Contract No. WA067
Waukegan Regional Airport
Waukegan, Illinois
Lake County
Illinois Project No. UGN-4190
SBG Project No. 3-17-0105-B55

For engineering information, contact Ronald M. Hudson, AICP of Hanson Professional Services, Inc. at (630) 990-3800.

FAA	rules	prohibit	the	use	of
escala	tion (clauses	for	mater	ials.
Theref	fore, the	e Division	of A	eronau	ıtics
canno	t offe	er any	mate	rial (cost
adjust	ment	provision	s for	proj	ects
that ut	tilize Fe	deral fund	ds.		

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



PROPOSAL

TO THE DEPARTMENT OF TRANSPORTATION

 Proposal of 	
Taxpayer Identification Number (Mandatory) _	
1 7	

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

Contract No. WA067 Waukegan Regional Airport Waukegan, Illinois Lake County Illinois Project No. UGN-4190 SBG Project No. 3-17-0105-B55

Construct Perimeter Fence, Phase 2

- 2. The undersigned bidder will furnish all labor, material and equipment to complete the above described project in a good workmanlike manner as provided in the contract documents provided by the Department of Transportation. This proposal will become part of the contract and the terms and conditions contained in the contract documents shall govern performance and payments.
- 3. 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 78 calendar days, unless additional time is 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.

	Schedule of Deducti Day of Overrun in C		
Original Con	tract Amount	Daily Cha	arges
From More Than	To and Including	Calendar Day	Work Day
\$ 0	\$ 100,000	\$ 475	\$ 675
100,000	500,000	750	1,050
500,000	1,000,000	1,025	1,425
1,000,000	3,000,000	1,275	1,725
3,000,000	6,000,000	1,425	2,000
6,000,000	12,000,000	2,300	3,450
12,000,000	And over	5,800	8,125

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

- 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, addenda, form of contract and contract bond, and special provisions, and that he/she has inspected in detail the site of the proposed work, and that he/she has familiarized themselves with all of the local conditions affecting the contract and the detailed requirements of construction, and understands that in making this proposal he/she waives all right to plead any misunderstanding regarding the same.
- 5. **EXECUTION OF CONTRACT AND CONTRACT BOND.** The undersigned further agrees to execute a contract for this work and present the same to the department within fifteen (15) days after the contract has been mailed to him/her. The undersigned further agrees that he/she and his/her surety will execute and present within fifteen (15) days after the contract has been mailed to him/her contract bond satisfactory to and in the form prescribed by the Department of Transportation, in the penal sum of the full amount of the contract, guaranteeing the faithful performance of the work in accordance with the terms of the contract.
- 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>A</u>	mount o	Propo of Bid Guara		Amount o	of Bid	Proposal <u>Guaranty</u>
Up to		\$5,000 \$15	50 \$2,000,000) to	\$3,000,000	\$100,000
\$5,000	to	\$10,000 \$30	00 \$3,000,000) to	\$5,000,000	\$150,000
\$10,000	to	\$50,000 \$1,00	00 \$5,000,000) to	\$7,500,000	\$250,000
\$50,000	to	\$100,000 \$3,00	00 \$7,500,000) to	\$10,000,000	\$400,000
\$100,000	to	\$150,000 \$5,00	00 \$10,000,000) to	\$15,000,000	\$500,000
\$150,000	to	\$250,000 \$7,50	00 \$15,000,000) to	\$20,000,000	\$600,000
\$250,000	to	\$500,000 \$12,50	00 \$20,000,000) to	\$25,000,000	\$700,000
\$500,000	to	\$1,000,000 \$25,00	00 \$25,000,000) to	\$30,000,000	\$800,000
\$1,000,000	to	\$1,500,000 \$50,00	00 \$30,000,000) to	\$35,000,000	\$900,000
\$1,500,000	to	\$2,000,000 \$75,00	00 ove	r	\$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.

-

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

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

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

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

Schedule of Combination Bids

Combination		Combination Bid Dollars Cents		
No.	Sections Included in Combination			

- 8. SCHEDULE OF PRICES. The undersigned submits herewith, in accordance with the rules and instructions, a schedule of prices for the items of work for which bids are sought. The unit prices bid are in U.S. dollars and cents, and all extensions and summations have been made. The bidder understands that the quantities appearing in the bid schedule are approximate and are provided for the purpose of obtaining a gross sum for the comparison of bids. If there is an error in the extension of the unit prices, the unit prices shall govern. Payment to the contractor awarded the contract will be made only for actual quantities of work performed and accepted or materials furnished according to the contract. The scheduled quantities of work to be done and materials to be furnished may be increased, decreased or omitted as provided elsewhere in the contract.
- 9. AUTHORITY TO DO BUSINESS IN ILLINOIS. Section 20-43 of the Illinois Procurement Code (the Code) (30 ILCS 500/20-43) provides that a person (other than an individual acting as a sole proprietor) must be a legal entity authorized to do business in the State of Illinois prior to submitting the bid.
- 10. The services of a subcontractor will be used.

Check box Check box	
	subcontractors with subcontracts with an annual value of more than \$50,000, the contract shall include their name, neral type of work to be performed, and the dollar allocation for each subcontractor. (30 ILCS 500/20-120)

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

STATE JOB #-

ILLINOIS DEPARTMENT OF TRANSPORTATION ECMS002 DTGECM03 ECMR003 PAGE SCHEDULE OF PRICES CONTRACT NUMBER - WA067

RUN DATE - 05/22/13 RUN TIME - 170106

COUNTY NAME CODE	DIST	AIRPORT NAME	FED PROJECT	ILL PROJECT
<u>LAKE 097</u>	01	WAUKEGAN REGIONAL	3-17-0105-B55	UG-N -4190

*** PART 1 ***

ITEM	DAY	UNIT OF		UNIT_PRIC		TOTAL PRIC	
NUMBER	PAY ITEM DESCRIPTION	<u>MEASURE</u> _	QUANTITY	DOLLARS	CENTS	<u>DOLLARS</u>	CTS
AR108051	POWER CABLE IN UNIT DUCT	L.F.	1,677.000	(=	 = 	
AR109535	ELECTRIC SERVCE ENTRANCE	L.S.	1.000	(
AR110014	4" DIRECTIONAL BORE	L.F.	70.000	(
AR119511	AIRPORT OBSTRUCTION LIGHT-SINGLE	EACH	4.000	(=======================================	 = 	
AR119512	AIRPORT OBSTRUCTION LIGHT-DOUBLE	EACH	3.000	(-	 : :	 -
AR150510	ENGINEER'S FIELD OFFICE	L.S.	1.000	(= 	
AR151450	CLEARING AND GRUBBING	ACRE	1.100	(= :	
AR152499	UNCLASSIFIED EXCAVATION (LS)	LS	1.000	(=		
AR156510	SILT FENCE	L.F.	3,500.000	(= = = = = = = = = = = = = = = = = = = =	 = 1	
AR156531	EROSION CONTROL BLANKET	S.Y.	1,900.000	(
AR156544	RIPRAP-GRADATION NO. 4	S.Y.	67.000	(=	 	
AR800944	CL. E FENCE 10' BARB W/2' BUR. GA	L.F.	5,367.000	(
AR800945	CLASS E FENCE 8' GALV	L.F.	749.000	(=======================================	 <u>-</u>	
AR800948	28' MANUAL SLIDING GATE GALV	EACH	1.000			=======================================	
AR800961	12" HDPE DRAIN. PIPE W/CONC. COLL	EACH	1.000 X	(=		
					I		I I

WAUKEGAN REGIONAL LAKE

ILLINOIS DEPARTMENT OF TRANSPORTATION ECMS002 DTGECM03 ECMR003 PAGE SCHEDULE OF PRICES

CONTRACT NUMBER - WA067

RUN DATE - 05/22/13 RUN TIME - 170106

ITEM		UNIT OF		UNIT PR		TOTAL PRIC	
NUMBER	PAY ITEM DESCRIPTION	MEASURE _	QUANTITY	<u>DOLLARS</u>	CENTS	DOLLARS	CTS
AR800969	SECONDARY POWER DISTRIBUTION	L.S.	1.000	 (=		1
AR800991	REMOVE FENCE	L.F.	6,575.000		<u> </u> <u> </u>		
AR901510	SEEDING	ACRE	4.400	 { 	====	<u> </u>	
AR905510	TOPSOILING (FROM ON SITE)	С.Ү.	130.000			~ 	
AR908510	MULCHING	ACRE	4.400		-		
				SUBTOTAL PA	_ \DT 1		_

***THE DEPARTMENT RESERVES THE RIGHT TO AWARD THIS CONTRACT ON THE ***BASIS OF ANY OF THE ALTERNATES OR COMBINATION THEREOF.

RUN DATE - 05/22/13 RUN TIME - 170106

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WAUKEGAN REGIONAL LAKE

ILLINOIS DEPARTMENT OF TRANSPORTATION ECMS002 DTGECM03 ECMR003 PAGE SCHEDULE OF PRICES CONTRACT NUMBER - WA067

*** PART 2 ALT A ***

ITEM	_				UNIT OF		UNIT PRI	CE	TOTAL PRIC	Έ
NUMBER_	P.	<u>AY ITEM</u>	DESCRIPTION	<u> </u>	<u>MEASURE</u>	QUANTITY	<u>DOLLARS</u>	CENTS	DOLLARS	CTS
AS800946	CL. E F	EN. 10'	W/O BARB :	2' BUR GA	L.F.	345.000	 	=	=	
AS800947	28' ELE	CTRICAL	SLIDING G	ATE GALV	EACH	1.000	 			
							F	.		

SUBTOTAL PART 2 ALT A \$

4

WAUKEGAN REGIONAL LAKE

ILLINOIS DEPARTMENT OF TRANSPORTATION SCHEDULE OF PRICES CONTRACT NUMBER - WA067

ECMS002 DTGECM03 ECMR003 PAGE RUN DATE - 05/22/13 RUN TIME - 170106

*** PART 2 ALT B ***

ITEM	DAY TIEM DECORPORATION	UNIT OF		UNIT_PR		TOTAL PRIC	
NUMBER	PAY ITEM DESCRIPTION	MEASURE	QUANTITY	<u> DOLLARS</u>	CENTS	DOLLARS	CTS
AT800962	CL. E FEN 10' W/O BARB 2' BUR VIN	L.F.	345.000	[(
AT800963	28' ELECTRICAL SLIDING GATE VINYL	EACH	1.000	\	= = = = = = = = = = = = = = = = = = = =		-
		<u> </u>	CUPTO	 			

CONTRACT - WA067

SUMMARY OF TOTAL ALTERNATES

DOLLARS CTS

TOTAL PART 1 \$

TOTAL PART 2 ALT A \$

TOTAL PART 2 ALT B \$

_	SUM	MARY OF	TO	ΓAL.	AL.	TERNATE GROUPINGS
						DOLLARS CTS
	TOTAL	PARTS	1&2	ALT	Α	\$
					_	
	TOTAL	PARTS	1&2	ALT	В	\$

NOTE:

*** PLEASE TURN PAGE FOR IMPORTANT NOTES ***

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WAUKEGAN REGIONAL LAKE

ILLINOIS DEPARTMENT OF TRANSPORTATION ECMS002 DTGECM03 ECMR003 PAGE SCHEDULE OF PRICES CONTRACT NUMBER - WA067

RUN DATE - 05/22/13 RUN TIME - 170106

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.

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

I. GENERAL

- **A.** Article 50 of the Code establishes the duty of all State CPOs, SPOs, and their designees to maximize the value of the expenditure of public moneys in procuring goods, services, and contracts for the State of Illinois and to act in a manner that maintains the integrity and public trust of State government. In discharging this duty, they are charged by law to use all available information, reasonable efforts, and reasonable actions to protect, safeguard, and maintain the procurement process of the State of Illinois.
- **B.** In order to comply with the provisions of Article 50 and to carry out the duty established therein, all bidders are to adhere to ethical standards established for the procurement process, and to make such assurances, disclosures and certifications required by law. Except as otherwise required in subsection III, paragraphs J-M, by execution of the Proposal Signature Sheet, the bidder indicates that each of the mandated assurances 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 the CPO to void the contract, and may result in the suspension or debarment of the bidder or subcontractor. If a false certification is made by a subcontractor, the contractor's submitted bid and the executed contract may not be declared void unless the contractor refuses to terminate the subcontract upon the States' request after a finding that the subcontractor's certification was false.

II. ASSURANCES

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

A. Conflicts of Interest

1. The Code provides in pertinent part:

Section 50-13. Conflicts of Interest.

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

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

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

B. Negotiations

1. The Code provides in pertinent part:

Section 50-15. Negotiations.

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

C. Inducements

1. The Code provides:

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

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

D. Revolving Door Prohibition

1. The Code provides:

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

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

E. Reporting Anticompetitive Practices

1. The Code provides:

Section 50-40. Reporting anticompetitive practices. When, for any reason, any vendor, bidder, contractor, CPO, SPO, 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 CPO.

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

F. Confidentiality

1. The Code provides:

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

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

G. Insider Information

1. The Code provides:

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

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

III. CERTIFICATIONS

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

A. Bribery

1. The Code provides:

Section 50-5. Bribery.

- (a) Prohibition. No person or business shall be awarded a contract or subcontract under this Code who:
 - (1) has been convicted under the laws of Illinois or any other state of bribery or attempting to bribe an officer or employee of the State of Illinois or any other state in that officer's or employee's official capacity; or
 - (2) has made an admission of guilt of that conduct that is a matter of record but has not been prosecuted for that conduct.
- (b) Businesses. No business shall be barred from contracting with any unit of State or local government, or subcontracting under such a contract, as a result of a conviction under this Section of any employee or agent of the business if the employee or agent is no longer employed by the business and:
 - (1) the business has been finally adjudicated not guilty; or
 - (2) the business demonstrates to the governmental entity with which it seeks to contract, or which is signatory to the contract which the subcontract relates, and that entity finds that the commission of the offense was not authorized, requested, commanded, or performed by a director, officer, or high managerial agent on behalf of the business as provided in paragraph (2) of subsection (a) of Section 5-4 of the Criminal Code of 1961.
- (c) Conduct on behalf of business. For purposes of this Section, when an official, agent, or employee of a business committed the bribery or attempted bribery on behalf of the business and in accordance with the direction or authorization of a responsible official of the business, the business shall be chargeable with the conduct.
- (d) Certification. Every bid submitted to and contract executed by the State, and every subcontract subject to Section 20-120 of the Code shall contain a certification by the contractor or the subcontractor, respectively, that the contractor or subcontractor is not barred from being awarded a contract or subcontract under this Section and acknowledges that the CPO may declare the related contract void if any certifications required by this Section are false. A contractor who makes a false statement, material to the certification, commits a Class 3 felony.
- 2. The contractor or subcontractor certifies that it is not barred from being awarded a contract under Section 50.5.

B. Felons

1. The Code provides:

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

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

C. <u>Debt Delinquency</u>

1. The Code provides:

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

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

D. Prohibited Bidders, Contractors and Subcontractors

1. The Code provides:

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

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

E. Section 42 of the Environmental Protection Act

The bidder or contractor or subcontractor, respectively, certifies in accordance with 30 ILCS 500/50-14 that the bidder, contractor, or subcontractor, is not barred from being awarded a contract or entering into a subcontract under this Section which prohibits the bidding on or entering into contracts with the State of Illinois or a State agency, or entering into any subcontract, that is subject to the Code by a person or business found by a court or the Pollution Control Board to have committed a willful or knowing violation of Section 42 of the Environmental Protection Act for a period of five years from the date of the order. The bidder or contractor or subcontractor, respectively, acknowledges that the CPO may declare the contract void if this certification is false.

F. Educational Loan

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

G. Bid-Rigging/Bid Rotating

- 1. Section 33E-11 of the Criminal Code of 1961 provides:
- § 33E-11. (a) Every bid submitted to and public contract executed pursuant to such bid by the State or a unit of local government shall contain a certification by the prime contractor that the prime contractor is not barred from contracting with any unit of State or local government as a result of a violation of either Section 33E-3 or 33E-4 of this Article. The State and units of local government shall provide the appropriate forms for such certification.
- (b) A contractor who makes a false statement, material to the certification, commits a Class 3 felony.

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

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

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

H. International Anti-Boycott

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

I. Drug Free Workplace

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

J. Disclosure of Business Operations in Iran

K.

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

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

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

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

Check the appropriate statement:
// Company has no business operations in Iran to disclose.
// Company has business operations in Iran as disclosed in the attached document.
Apprenticeship and Training Certification (Does not apply to federal aid projects)
In accordance with the provisions of Section 30-22 (6) of the Code, the bidder certifies that it is a participant, either as an individual or as participant, 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 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 are or all of its subcontractors. Applicable apprenticeship and training programs are those that have been approved and registered with the United States Department of Labor. The bidder shall list in the space below, the official name of the program sponsor holding the Certificate 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. Type of work or craft work that will be subcontracted shall be included and listed as subcontracted work. The list shall also indicate any type of work or craft job category that does not have an applicable apprenticeship or training program. The bidder is responsible for making a comple report and shall make certain that each type of work or craft job category that will be utilized on the project as reported on the Construction Employee Workforce Projection (Form BC-1256) and returned with the bid is accounted for and listed. NA-FEDERAL

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

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

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

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

The undersigned business entity certifies that it has registered as a business with the State Board of Elections and acknowledges a continuing duty to update the registration in accordance with the above referenced statutes. If the business entity is required to register, the CPO shall verify that it is in compliance on the date the bid or proposal is due. The CPO shall not accept a bid or proposal if the business entity is not in compliance with the registration requirements.

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

M. Lobbyist Disclosure

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

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

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

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

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

`	,				
	Bidder has not hired any person required to register pursuant to the Illinois Lobbyist Registration Act in connection with this contract.				
	Or				
☐ Bidder has hired the following persons required to register pursuant to the Illinois Lobbyist Registration Act in connecontract:					
Name	and address of person:				
All co	sts, fees, compensation, reimbursements and other remuneration paid to said person:				

IV. DISCLOSURES

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

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

B. Financial Interests and Conflicts of Interest

1. Section 50-35 of the Code provides that all bids of more than \$25,000 shall be accompanied by disclosure of the financial interests of the bidder. This disclosed information for the successful bidder, will be maintained as public information subject to release by request pursuant to the Freedom of Information Act, filed with the Procurement Policy Board, and shall be incorporated as a material term of the contract. Furthermore, pursuant to Section 5-5, the Procurement Policy Board may review a proposal, bid, or contract and issue a recommendation to void a contract or reject a proposal or bid based on any violation of the Code or the existence of a conflict of interest as provided in subsections (b) and (d) of Section 50-35.

The financial interests to be disclosed shall include ownership or distributive income share that is in excess of 5%, or an amount greater than 60% of the annual salary of the Governor, of the bidding entity or its parent entity, whichever is less, unless the contractor or bidder is a publicly traded entity subject to Federal 10K reporting, in which case it may submit its 10K disclosure in place of the prescribed disclosure. If a bidder is a privately held entity that is exempt from Federal 10K reporting, but has more than 200 shareholders, it may submit the information that Federal 10K companies are required to report, and list the names of any person or entity holding any ownership share that is in excess of 5%. The disclosure shall include the names, addresses, and dollar or proportionate share of ownership of each person making the disclosure, their instrument of ownership or beneficial relationship, and notice of any potential conflict of interest resulting from the current ownership or beneficial interest of each person making the disclosure having any of the relationships identified in Section 50-35 and on the disclosure form.

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

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

2. <u>Disclosure Forms</u>. Disclosure Form A is attached for use concerning the individuals meeting the above ownership or distributive share requirements. A separate Disclosure Form A must be submitted with the bid for each individual meeting the above requirements. In addition, a second form (Disclosure Form B) provides for the disclosure of current or pending procurement relationships with other (non-IDOT) state agencies and a total ownership certification. The forms must be included with each bid.

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

Form A Instructions for Financial Information & Potential Conflicts of Interest

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

1.	Does anyone in your organization have a direct or beneficial ownership share of greater than 5% of the bidding entity or parent entity? YES NO
2.	Does anyone in your organization have a direct or beneficial ownership share of less than 5%, but which has a value greater than 60% of the annual salary of the Governor? YES NO
3.	Does anyone in your organization receive more than 60% of the annual salary of the Governor of the bidding entity's or parent entity's distributive income? (Note: Distributive income is, for these purposes, any type of distribution of profits. An annual salary is not distributive income.) YESNO
4.	Does anyone in your organization receive greater than 5% of the bidding entity's or parent entity's total distributive income, but which is less than 60% of the annual salary of the Governor? YES NO

(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 <u>NOT APPLICABLE STATEMENT</u> of Form A must be signed and dated by a person that is authorized to execute contracts for your company.

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

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

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

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

Form A Financial Information & Potential Conflicts of Interest Disclosure

			Disclosure	
Contractor Name)			
Legal Address				
City, State, Zip				
Telephone Numb	per	Email Address	Fax Number (if available	e)
desiring to ent interest inform contract file. T traded compa forth in Form	er into a contract with the ation as specified in this his Form A must be complete.	State of Illinois must disciplisations of Illinois must disciplisation. This infleted for bids in excess of Sciosure (or equivalent if Instructions.	e Section 50-35 of the Codose the financial information ormation shall become para 25,000, and for all open-enapplicable) in satisfaction	on and potential conflict of rt of the publicly available ided contracts. A publicly
terms of owner annual salary of each individual FOR INDIVID	rship or distributive income	share in excess of 5%, or a pies of this form as necessinents)	pelow has an interest in the an interest which has a values arry and attach a separa	ue of more than 60% of the
NAME: ADDRESS	3			
	nership/distributable incom			
stock % or \$ valu	sole proprietorship e of ownership/distributable in	partnership come share:	other: (explain on sepa	arate sneet)
			ndicate which, if any, of the follottach additional pages and des	
, ,			cluding contractual employ Yes	
		each of the following quest		
1.	Are you currently an offic Highway Authority?	er or employee of either the	e Capitol Development Boar	rd or the Illinois State Toll Yes No

your annual salary.

2. Are you currently appointed to or employed by any agency of the State of Illinois? If you are currently appointed to or employed by any agency of the State of Illinois, and your annual salary exceeds 60% of the annual salary of the Governor, provide the name of the State agency for which you are employed and

3.	If you are currently appointed to or employed by any agency of the State salary exceeds 60% of the annual salary of the Governor, are you entitl of the total distributable income of your firm, partnership, association or excess of 100% of the annual salary of the Governor?	led to rec	eive (i) m	ore that	an 7 1/2%
4.	If you are currently appointed to or employed by any agency of the State salary exceeds 60% of the annual salary of the Governor, are you and yentitled to receive (i) more than 15 % in the aggregate of the total distribution partnership, association or corporation, or (ii) an amount in excess of two Governor?	your spou outable in	ise or mi come of	nor chi your fi	lldren rm,
. ,	te employment of spouse, father, mother, son, or daughter, including corevious 2 years.	ontractual Yes		nent fo	
If yo	our answer is yes, please answer each of the following questions.				
1.	Is your spouse or any minor children currently an officer or employee of or the Illinois State Toll Highway Authority?	the Capi	tal Devel Yes	•	nt Board No
2.	Is your spouse or any minor children currently appointed to or employed Illinois? If your spouse or minor children is/are currently appointed to or State of Illinois, and his/her annual salary exceeds 60% of the annual saname of your spouse and/or minor children, the name of the State agent and his/her annual salary.	r employe alary of th	ed by any ne Gover	agenonical and a display and a	cy of the ovide the
3.	If your spouse or any minor children is/are currently appointed to or empositive of Illinois, and his/her annual salary exceeds 60% of the annual sare you entitled to receive (i) more than 7 1/2% of the total distributable firm, partnership, association or corporation, or (ii) an amount in excess annual salary of the Governor?	alary of the	ne Gover of your		the
4.	If your spouse or any minor children are currently appointed to or employ State of Illinois, and his/her annual salary exceeds 60% of the annual sand your spouse or minor children entitled to receive (i) more than 15% aggregate of the total distributable income of your firm, partnership, ass (ii) an amount in excess of two times the salary of the Governor?	alary of th in the	ne Gover	nor, ar	e you
` '	ctive status; the holding of elective office of the State of Illinois, the any unit of local government authorized by the Constitution of the Staf Illinois currently or in the previous 3 years.	•	ois or th		utes of the
(d) Rel or dau	ationship to anyone holding elective office currently or in the previous 2 yahter	years; sp Yes		her, m	
Americ State	pointive office; the holding of any appointive government office of the Sta, or any unit of local government authorized by the Constitution of the Staff Illinois, which office entitles the holder to compensation in excessing of that office currently or in the previous 3 years.	State of III	nois or tlexpenses	ne stat	utes of the red in the
	ationship to anyone holding appointive office currently or in the previous 2 daughter.	2 years; s Yes		ther, r	
(g) Em	ployment, currently or in the previous 3 years, as or by any registered lob	obyist of t Yes		goverr No	

(h) Relationship to anyone who is or was a registered lobbyist son, or daughter.	Yes	· · · · · · · · · · · · · · · · · · ·
(i) Compensated employment, currently or in the previous 3 committee registered with the Secretary of State or any county committee registered with either the Secretary of State or the Federal	clerk of the State of Illinois,	
	Yes	No
(j) Relationship to anyone; spouse, father, mother, son, or dauglast 2 years by any registered election or re-election committed county clerk of the State of Illinois, or any political action committed the Federal Board of Elections.	ee registered with the Secre	etary of State or any Secretary of State or
3. Communication Disclosure.		
Disclose the name and address of each lobbyist and other agent of the lof this form, who has communicated, is communicating, or may concerning the bid or offer. This disclosure is a continuing obligation a throughout the process and throughout the term of the contract. If no per	mmunicate with any State and must be promptly supple	officer or employee emented for accuracy
Name and address of person(s):		

4. Debarment Disclosure. For each of the persons identified under Sections 2 and 3 of the of the following has occurred within the previous 10 years: debarment from contracting we professional licensure discipline; bankruptcies; adverse civil judgments and administrative convictions. This disclosure is a continuing obligation and must be promptly supplemented procurement process and term of the contract. If no person is identified, enter "None" on the	with any governmental entity; findings; and criminal felony for accuracy throughout the
Name of person(s):	
Nature of disclosure:	
APPLICABLE STATEMENT	
This Disclosure Form A is submitted on behalf of the INDIVIDUAL named on previous penalty of perjury, I certify the contents of this disclosure to be true and accurate to the knowledge.	
Completed by:	
Signature of Individual or Authorized Officer	Date
NOT APPLICABLE STATEMENT Under penalty of perjury, I have determined that no individuals associated with this org	nanization meet
the criteria that would require the completion of this Form A.	gamzation meet
This Disclosure Form A is submitted on behalf of the CONTRACTOR listed on the previous	ious page.
Signature of Authorized Officer	Date

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

Form B Other Contracts & Procurement Related Information Disclosure

Contractor Name			
Legal Address			
City, State, Zip			
Telephone Number	Email Address	Fax Number (if available)	
Disclosure of the information contained in This information shall become part of the in excess of \$25,000, and for all open-end DISCLOSURE OF OTHER 1. Identifying Other Contracts & P	publicly available contract file. The ded contracts. CONTRACTS AND PROCUREM	is Form B must be completed for bi	ds
has any pending contracts (including any other State of Illinois agency: \frac{1}{3} If "No" is checked, the bidder only needs	/es No		rith
2. If "Yes" is checked. Identify each surinformation such as bid or project num INSTRUCTIONS:	ch relationship by showing State	of Illinois agency name and other d	
THE FOLL	OWING STATEMENT MUST BE	CHECKED	
П			
Sie	gnature of Authorized Representative	Date	
Sie	gnature of Authorized Representative	Date	
Sie	gnature of Authorized Representative	Date	
Sie	gnature of Authorized Representative OWNERSHIP CERITIFICATION		
Please certify that the following statement of ownership.	OWNERSHIP CERITIFICATION	<u>N</u>	otal 100%
Please certify that the following statement of ownership.	OWNERSHIP CERITIFICATION is true if the individuals for all substitute is held by individuals receiving leading to the individuals receiving the individuals receiving the individuals receiving the individuals receiving the individuals received the individuals	N omitted Form A disclosures do not to ss than \$106,447.20 of the bidding	

SPECIAL NOTICE TO CONTRACTORS

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

CONSTRUCTION EMPLOYEE UTILIZATION PROJECTION

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



Contract No. WA067 Waukegan Regional Airport Waukegan, Illinois Lake County Illinois Project No. UGN-4190 SBG Project No. 3-17-0105-B55

PART I. IDENTIFIC	CATION															
Dept. Human Right	ts #						_ Dur	ation o	f Proje	ct:						
Name of Bidder: _																
PART II. WORKE A. The undersigned which this contract we projection including a	d bidder h ork is to b	as analyz e perform	ed mir ed, an	d for th d fema	ne locat	ions fro	m whi	ch the b	idder re	cruits	employe	ees, and he	reby subm	its the follo	wing workfontract:	n orce
		TOT	AL Wo		Projec	tion for	Contr	act						CURRENT I	MPLOYE	ES
															SSIGNED NTRACT	
JOB	ТС	TAL		MIN	ORITY	EMPLO		S ΓHER	APPI		AINEES On t	HE JOB	TC	OTAL	MINO	DRITY
CATEGORIES	_	OYEES	BL	ACK	HISP	ANIC	_	NOR.	TIC			INEES	_	OYEES		OYEES
OFFICIALO	M	F	М	F	M	F	M	F	М	F	М	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																
		BLE C							_	ſ		FOR I)FPARTN	MENT USE	ONLY	
EMPLOYEES	TOTAL Tr	raining Pro DTAL	ojectio T	n for C	ontract		*	THER	-			TORE	, LI TIKTI	ILIVI COL	OTVET	
IN		OYEES	BI.	ACK	HISE	PANIC		INOR.								
TRAINING	M	F	M	F	M	F	M	F								
APPRENTICES																
ON THE JOB TRAINEES																
	Other mino	rities are de	fined as	Asians	(A) or Na	tive Ame	ericans ((N).	_	L						
	Please spe	cify race of	each er	nployee	shown in	Other M	linorities	s column.						BC 1256	(Rev. 12/1	1/07)

Note: See instructions on page 2

Contract No. WA067 Waukegan Regional Airport Waukegan, Illinois Lake County Illinois Project No. UGN-4190 SBG Project No. 3-17-0105-B55

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

PART II. WORKFORCE PROJECTION - continued

В.		ed in "Total Employees" under Table A is the total number of new hires that would be en signed bidder is awarded this contract.	mployed in the event the
	area ir	ndersigned bidder projects that: (number) new hire no which the contract project is located; and/or (number) new hire no hire no hire new hire no hire new hire no hire new	s would be recruited from the new hires would be
C.		ed in "Total Employees" under Table A is a projection of numbers of persons to be emploas well as a projection of numbers of persons to be employed by subcontractors.	oyed directly by the undersigned
	The ur employ	ndersigned bidder estimates that (number) persons will be	persons will be directly employed by subcontractors.
PART	III. AFFII	RMATIVE ACTION PLAN	
A. B.	project and in and su wherel to app The ur and th	indersigned bidder understands and agrees that in the event the foregoing minority and feation included under PART II is determined to be an underutilization of minority persons of the event that the undersigned bidder is awarded this contract, he/she will, prior to complement a written Affirmative Action Plan including a specific timetable (geared to the complement of the contraction and the contraction are corrected. Such Affirm roval by the contracting agency and the Department of Human Rights . Indersigned bidder understands and agrees that the minority and female employee utilizate goals and timetable included under an Affirmative Action Plan if required, are deemed cations.	or women in any job category, mencement of work, develop letion stages of the contract) native Action Plan will be subject ution projection submitted herein,
Comp	any	Telephone Number	
Addre	ess		
		NOTICE REGARDING SIGNATURE	
		der's signature on the Proposal Signature Sheet will constitute the signing of this form. be completed only if revisions are required.	The following signature block
	Signatu	re: Title:	Date:
Instruc	ctions:	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 t (Table B) that will be allocated to contract work, and include all apprentices and on-the-job train should include all employees including all minorities, apprentices and on-the-job trainees to be en	ees. The "Total Employees" column
Table	В -	Include all employees currently employed that will be allocated to the contract work including any currently employed.	apprentices and on-the-job trainees
Table	C -	Indicate the racial breakdown of the total apprentices and on-the-job trainees shown in Table A.	

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ADDITIONAL FEDERAL REQUIREMENTS

In addition to the Required Contract Provisions for Federally funded airport construction contracts, all bidders make the following certifications.

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

В.	<u>CE</u>	RTIFICATION, EQUAL EMPLOYMENT OPPORTUNITY
	1.	Have you participated in any previous contracts or subcontracts subject to the equal opportunity clause? Yes No
	2.	If your answer is yes, have you filed with the Joint Reporting Committee, the Director of OFCC, any Federal agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements of those organizations? Yes No

Contract No. WA067 Waukegan Regional Airport Waukegan, Illinois Lake County Illinois Project No. UGN-4190 SBG Project No. 3-17-0105-B55

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)		
	Business Address	
	Firm Name	
(IF A CO-PARTNERSHIP)		
,		
	Name and Address of	All Members of the Firm:
	_	
	•	
	Corporate Name	
	,	Signature of Authorized Representative
(IF A CORPORATION)		Typed or printed name and title of Authorized Representative
	A.U 1	
(IF A JOINT VENTURE, USE THIS SECTION FOR THE MANAGING	Attest	Signature
PARTY AND THE SECOND PARTY SHOULD SIGN BELOW)	Business Address	
·		
	Corporate Name	
	Бу	Signature of Authorized Representative
(IF A JOINT VENTURE)		Typed or printed name and title of Authorized Representative
	Attest	Signature
		Signature
	Business Address	_
If more than two parties are in the joint ve	nture, please attach addition	onal signature sheet



Division of Aeronautics Proposal Bid Bond

Sponsor			Item No.	
IL Proj. No.	SBG Pr. No.		Letting Date	
KNOW ALL MEN BY THESE PRE	ESENTS, That We			
as PRINCIPAL, and				
			as SUR	ETY, are
	Suaranty of the Proposal Documen	it, whichever is the les	sum of 5 percent of the total bid price, or for th ser sum, well and truly to be paid unto said SF ors and assigns.	
SPONSOR through its AGENT, th		ransportation, Division	PRINCIPAL has submitted a bid proposal to th n of Aeronautics, for the improvement designal	
and as specified in the bidding an the award by AGENT on behalf of documents, including evidence of faithful performance of such contr the failure of the PRINCIPAL to m pays to the SPONSOR the differe	d contract documents, submit a D SPONSOR, the PRINCIPAL shall the required insurance coverages ract and for the prompt payment of the required DBE submission ence not to exceed the penalty her htract with another party to perform	BE Utilization Plan that I enter into a contract and providing such if labor and material for to enter into such eof between the amo	oposal of the PRINCIPAL; and if the PRINCIP at is accepted and approved by the AGENT; are in accordance with the terms of the bidding and bond as specified with good and sufficient sure urnished in the prosecution thereof; or if, in the contract and to give the specified bond, the Print specified in the bid proposal and such larger said bid proposal, then this obligation shall be	nd if, after d contract ety for the e event of RINCIPAL er amount
forth in the preceding paragraph, SURETY does not make full payn	then SURETY shall pay the penal nent within such period of time, th	sum to the SPONSO e AGENT may bring a	IPAL has failed to comply with any requirement R within fifteen (15) days of written demand the surface of the collect the amount owed. SURET do not not sufficient any litigation in which SPONSOR or AGEN	erefor. If Y is liable
In TESTIMONY WHEREOF	, the said PRINCIPAL and the sai	d SURETY have caus	ed this instrument to be signed by	
their respective officers	day of		A.D.,	
PRINCIPAL		SURETY		
(Company	Name)	-	(Company Name)	
Ву		Ву:		
	ature & Title)		(Signature of Attorney-in-Fact)	
	Notary Certificati	on for Principal and	Surety	
STATE OF ILLINOIS,				
County of				
l,		, a Notary Pub	lic in and for said County, do hereby certify that	t
		and		
	(Insert names of individuals sign	ning on behalf of PRII	ICIPAL & SURETY)	
	e this day in person and acknowle		ped to the foregoing instrument on behalf of PF at they signed and delivered said instrument as	
Given under my hand and r	notarial seal this	day of	A.D	
My commission expires				_ _
,			Notary Public	
marking the check box next to the	e Signature and Title line below, t	he Principal is ensuri	an Electronic Bid Bond. By signing the propage the identified electronic bid bond has been er the conditions of the bid bond as shown about	executed
Electronic Bid Bond ID#	Company / Bidder Nam	e	Signature and Title	

DBE Utilization Plan



(1) Policy

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

(2) Obligation

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

(3) Pro	ject and Bid Identification			
Complet	te the following information concerning the project and bid:			
Route	Waukegan Regional Airport	Total Bid		_
Section		Contract DBE Goal	9.4%	
Project	UGN-4190		(Percent)	(Dollar Amount)
County	Lake County			
Letting [Date			
Contrac	t No. <u>WA067</u>			
Letting I	tem No. <u>36A</u>			
(4) Ass	urance			
	in my capacity as an officer of the undersigned bidder (or bidding company: (check one) Meets or exceeds contract award goals and has provided do Disadvantaged Business Participation percer Attached are the signed participation statements, forms SBE use of each business participating in this plan and assuring the work of the contract. Failed to meet contract award goals and has included good for provided participation as follows: Disadvantaged Business Participation percent The contract goals should be accordingly modified or waived support of this request including good faith effort. Also attach required by the Special Provision evidencing availability and business will perform a commercially useful function in the work.	cumented participation as for at 2025, required by the Spector at each business will perfort aith effort documentation to reach a all information are the signed participations of each business participations.	ollows: ial Provision evid m a commercially meet the goals and required by the Stion statements, 1	lencing availability and y useful function in the and that my company has special Provision in forms SBE 2025,
By Title	Company	The "as read" Low Bidder is re Submit only one utilization pla submitted in accordance with Bureau of Small Business Ent 2300 South Dirksen Parkway Springfield, Illinois 62764	n for each project. The special provision. erprises	·

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



DBE Participation Statement

	or Registration	L	etting June 14, 2	013			
Participation			em No. 36A				
(1) Instructions Contract WA067				067			
be submitted	rm must be completed for each disadvantaged business participating in the Utilization Plan. This form shall mitted in accordance with the special provision and will be attached to the Utilization Plan form. If additional is needed complete an additional form for the firm.						
(2) Work							
Pay Item No.	Description	Quantity	Unit Price	Total			
			 Total				
	(3) Partial Payment Items For any of the above items which are partial pay items, specifically describe the work and subcontract dollar						
(4) Commitm	nent						
has agreed to execute a constatement management	gned certify that the information included herein is true to perform a commercially useful function in the work ontract with the prime contractor. The undersigned furtacy be made without prior approval from the Department and accurate information regarding actual work performance.	f the contract ite her understand t nt's Bureau of Sr	m(s) listed above hat no changes t nall Business Ent	and to o this erprises and			
	Signature for Prime Contractor	Sig	nature for DBE Firm				
Title	Title	e					
Date	Dat	e					
Contact	Cor	ntact					
Phone	Pho	one					
Firm Name	Firr	n Name					
Address	Add	dress					
City/State/Zip	p City	//State/Zip					
			E				
	nsportation is requesting disclosure of information that is necessary to accomplish the statutory purple of this information is REQUIRED . Failure to provide any information will result in the contract not beforms Management Center.		te and been WC				

SBE 2025 (Rev. 11/03.09)



PROPOSALS

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

Item No.	Item No.	Item No.

Submitted By:

Name:	
Address:	
Phone No.	

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

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

NOTICE

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

CONTRACTOR OFFICE COPY OF CONTRACT SPECIFICATIONS

NOTICE

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

Contract No. WA067
Waukegan Regional Airport
Waukegan, Illinois
Lake County
Illinois Project No. UGN-4190
SBG Project No. 3-17-0105-B55



SUBCONTRACTOR DOCUMENTATION

Public Acts 96-0795, 96-0920, and 97-0895 enacted substantial changes to the provisions of the Code (30 ILCS 500). Among the changes are provisions affecting subcontractors. The Contractor awarded this contract will be required as a material condition of the contract to implement and enforce the contract requirements applicable to subcontractors that entered into a contractual agreement with a total value of \$50,000 or more with a person or entity who has a contract subject to the Code and approved in accordance with Section 80-01 of the Illinois Standard Specifications for Construction of Airports.

If the Contractor seeks approval of subcontractors to perform a portion of the work, and approval is granted by the Department, the Contractor shall provide a copy of the subcontract to the Illinois Department of Transportation's CPO upon request within 15 calendar days after execution of the subcontract.

Financial disclosures required pursuant to Section 50-35 of the Code must be submitted for all applicable subcontractors. The subcontract shall contain the certifications required to be made by subcontractors pursuant to Article 50 of the Code. This Notice to Bidders includes a document incorporating all required subcontractor certifications and disclosures for use by the Contractor in compliance with this mandate. The document is entitled <u>State Required Ethical Standards Governing Subcontractors</u>.

STATE ETHICAL STANDARDS GOVERNING SUBCONTRACTORS

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

The certifications hereinafter made by the subcontractor are each a material representation of fact upon which reliance is placed should the Department approve the subcontractor. The CPO may terminate or void the contract approval if it is later determined that the bidder or subcontractor rendered a false or erroneous certification. If a false certification is made by a subcontractor the contractor's submitted bid and the executed contract may not be declared void unless the contractor refuses to terminate the subcontract upon the State's request after a finding that the subcontractor's certification was false.

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

A. Bribery

1. The Code provides:

Section 50-5. Bribery.

- (a) Prohibition. No person or business shall be awarded a contract or subcontract under this Code who:
 - (1) has been convicted under the laws of Illinois or any other state of bribery or attempting to bribe an officer or employee of the State of Illinois or any other state in that officer's or employee's official capacity; or
 - (2) has made an admission of guilt of that conduct that is a matter of record but has not been prosecuted for that conduct.
- (b) Businesses. No business shall be barred from contracting with any unit of State or local government, or subcontracting under such a contract, as a result of a conviction under this Section of any employee or agent of the business if the employee or agent is no longer employed by the business and:
 - (1) the business has been finally adjudicated not guilty; or
 - (2) the business demonstrates to the governmental entity with which it seeks to contract, or which is signatory to the contract to which the subcontract relates, and that entity finds that the commission of the offense was not authorized, requested, commanded, or performed by a director, officer, or high managerial agent on behalf of the business as provided in paragraph (2) of subsection (a) of Section 5-4 of the Criminal Code of 1961.
- (c) Conduct on behalf of business. For purposes of this Section, when an official, agent, or employee of a business committed the bribery or attempted bribery on behalf of the business and in accordance with the direction or authorization of a responsible official of the business, the business shall be chargeable with the conduct.
- (d) Certification. Every bid submitted to and contract executed by the State, and every subcontract subject to Section 20-120 of the Code shall contain a certification by the contractor or the subcontractor, respectively, that the contractor or subcontractor is not barred from being awarded a contract or subcontract under this Section and acknowledges that the CPO may declare the related contract void if any certifications required by this Section are false. A contractor who makes a false statement, material to the certification, commits a Class 3 felony.
- 2. The contractor or subcontractor certifies that it is not barred from being awarded a contract under Section 50.5.

B. Felons

1. The Code provides:

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

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

C. Debt Delinquency

1. The Code provides:

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

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

D. Prohibited Bidders, Contractors and Subcontractors

1. The Code provides:

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

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

E. Section 42 of the Environmental Protection Act

The bidder or contractor or subcontractor, respectively, certifies in accordance with 30 ILCS 500/50-14 that the bidder, contractor, or subcontractor, is not barred from being awarded a contract or entering into a subcontract under this Section which prohibits the bidding on or entering into contracts with the State of Illinois or a State agency, or entering into any subcontract, that is subject to the Code by a person or business found by a court or the Pollution Control Board to have committed a willful or knowing violation of Section 42 of the Environmental Protection Act for a period of five years from the date of the order. The bidder or contractor or subcontractor, respectively, acknowledges that the CPO may declare the contract void if this certification is false.

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

 Name of Subcontracting Company	
 Authorized Officer	
Addion26d Officer	Date

SUBCONTRACTOR DISCLOSURES

I. DISCLOSURES

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

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

B. Financial Interests and Conflicts of Interest

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

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

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

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

2. <u>Disclosure Forms</u>. Disclosure Form A is attached for use concerning the individuals meeting the above ownership or distributive share requirements. A separate Disclosure Form A must be submitted with the bid for each individual meeting the above requirements. In addition, a second form (Disclosure Form B) provides for the disclosure of current or pending procurement relationships with other (non-IDOT) state agencies and a total ownership certification. The forms must be included with each bid.

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

Form A Instructions for Financial Information & Potential Conflicts of Interest

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

1.	Does anyone in your organization have a direct or beneficial ownership share of greater than 5% of the bidding entity or parent entity? YES NO
2.	Does anyone in your organization have a direct or beneficial ownership share of less than 5%, but which has a value greater than 60% of the annual salary of the Governor? YES NO
3.	Does anyone in your organization receive more than 60% of the annual salary of the Governor of the subcontracting entity's or parent entity's distributive income? (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 subcontracting entity's or parent entity's total distributive income, but which is less than 60% of the annual salary of the Governor? YES NO
`	ote: Only one set of forms needs to be completed per person per subcontract even if a specific individual would require a yes answer to more an one question.)

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

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

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

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

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

Subcontractor Name				
Cabbonitable: Name				
Legal Address				
•				
City, State, Zip				
City, State, Zip				
Telephone Number	Email Address	Fax Number (if available)		
releptione realises	Email / Idai 600	rax rumbor (ii available)		

Disclosure of the information contained in this Form is required by the Section 50-35 of the Code (30 ILCS 500). Subcontractors desiring to enter into a subcontract of a State of Illinois contract must disclose the financial information and potential conflict of interest information as specified in this Disclosure Form. This information shall become part of the publicly available contract file. This Form A must be completed for subcontracts with a total value of \$50,000 or more, from subcontractors identified in Section 20-120 of the Code, and for all openended contracts. A publicly traded company may submit a 10K disclosure (or equivalent if applicable) in satisfaction of the requirements set forth in Form A. See Disclosure Form Instructions.

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

FOR INDIVIDUAL (type or print information)

DISCLOSURE OF FINANCIAL INFORMATION

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

	NAI	ME:			
	ADI	DRESS			
	Тур	e of ownership/distributable income shar	e:		
		k sole proprietorship r \$ value of ownership/distributable income s		other: (explain on separate sh	eet):
pot	ential o	sure of Potential Conflicts of Interest conflict of interest relationships apply. It describe.			_
(a)	State	employment, currently or in the previous		tual employment of services. S No	
	If you	r answer is yes, please answer each of t	the following questions.		
	1.	Are you currently an officer or employ Toll Highway Authority?	ee of either the Capitol De	evelopment Board or the Illinois Yes No	State
	2.	Are you currently appointed to or emp appointed to or employed by any ager of the annual salary of the Governor, and your annual salary	ncy of the State of Illinois,	and your annual salary exceeds	60%

(g)	Emplo	yment, currently or in the previous 3 years, as or by any registered lobbyist of the State government. Yes No
(f)		onship to anyone holding appointive office currently or in the previous 2 years; spouse, father, mother, r daughter. Yes No
(e)	Americ of the	ntive office; the holding of any appointive government office of the State of Illinois, the United States of ca, or any unit of local government authorized by the Constitution of the State of Illinois or the statutes State of Illinois, which office entitles the holder to compensation in excess of the expenses incurred in scharge of that office currently or in the previous 3 years. Yes No
(d)		onship to anyone holding elective office currently or in the previous 2 years; spouse, father, mother, r daughter. Yes No
(c)	unit of	ve status; the holding of elective office of the State of Illinois, the government of the United States, any local government authorized by the Constitution of the State of Illinois or the statutes of the State of currently or in the previous 3 years. Yes No
	4.	If your spouse or any minor children are currently appointed to or employed by any agency of the State of Illinois, and his/her annual salary exceeds 60% of the annual salary of the Governor, are you and your spouse or minor children entitled to receive (i) more than 15 % in the aggregate of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of 2 times the salary of the Governor? Yes No
	3.	If your spouse or any minor children is/are currently appointed to or employed by any agency of the State of Illinois, and his/her annual salary exceeds 60% of the annual salary of the Governor, are you entitled to receive (i) more than 7 1/2% of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of the salary of the Governor? Yes No
	2.	Is your spouse or any minor children currently appointed to or employed by any agency of the State of Illinois? If your spouse or minor children is/are currently appointed to or employed by any agency of the State of Illinois, and his/her annual salary exceeds 60% of the annual salary of the Governor, provide the name of your spouse and/or minor children, the name of the State agency for which he/she is employed and his/her annual salary.
	-	Is your spouse or any minor children currently an officer or employee of the Capitol Development Board or the Illinois State Toll Highway Authority? Yes No
(b)	the pre	employment of spouse, father, mother, son, or daughter, including contractual employment services in evious 2 years. Yes No answer is yes, please answer each of the following questions.
	4.	If you are currently appointed to or employed by any agency of the State of Illinois, and your annual salary exceeds 60% of the annual salary of the Governor, are you and your spouse or minor children entitled to receive (i) more than 15 % in the aggregate of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of two times the salary of the Governor? Yes No
	3.	If you are currently appointed to or employed by any agency of the State of Illinois, and your annual salary exceeds 60% of the annual salary of the Governor, are you entitled to receive (i) more than 7 1/2% of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of 100% of the annual salary of the Governor? 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
3.	Communication Disclosure.
this bid	close the name and address of each lobbyist and other agent of the bidder or offeror who is not identified in Section 2 of form, who has communicated, is communicating, or may communicate with any State officer or employee concerning the or offer. This disclosure is a continuing obligation and must be promptly supplemented for accuracy throughout the cess and throughout the term of the contract. If no person is identified, enter "None" on the line below:
١	Name and address of person(s):
-	

4. Debarment Disclosure. For each of the persons identified under Sections 2 and 3 of this the following has occurred within the previous 10 years: debarment from contracting professional licensure discipline; bankruptcies; adverse civil judgments and administrative convictions. This disclosure is a continuing obligation and must be promptly supplemente procurement process and term of the contract. If no person is identified, enter "None" on the line	with any governmental entity; findings; and criminal felony d for accuracy throughout the
Name of person(s):	
Nature of disclosure:	_
APPLICABLE STATEMENT This Disclosure Form A is submitted on behalf of the INDIVIDUAL named on pre	vieus page. Under
penalty of perjury, I certify the contents of this disclosure to be true and accurat knowledge.	
Completed by:	
Signature of Individual or Authorized Officer	Date
NOT APPLICABLE STATEMENT	
Under penalty of perjury, I have determined that no individuals associated with the criteria that would require the completion of this Form A.	his organization meet
This Disclosure Form A is submitted on behalf of the SUBCONTRACTOR listed	on the previous page.
Signature of Authorized Officer	Date

ILLINOIS DEPARTMENT OF TRANSPORTATION

Form B Subcontractor: Other Contracts & Procurement Related Information Disclosure

Subcontractor Name				
Legal Address				
City, State, Zip	City, State, Zip			
Telephone Number	Email Address	Fax Number (if available)		
Disclosure of the information contained in this Form is required by the Section 50-35 of the Code (30 ILCS 500). This information shall become part of the publicly available contract file. This Form B must be completed for subcontracts with a total value of \$50,000 or more, from subcontractors identified in Section 20-120 of the Code, and for all open-ended contracts.				
DISCLOSURE OF OTHER CONTRAC	TS, SUBCONTRACTS, AND PRO	CUREMENT RELATED INFORMATION		
1. Identifying Other Contracts & Procure any pending contracts, subcontracts, incluany other State of Illinois agency: If "No" is checked, the subcontractor only	ding leases, bids, proposals, or ot Yes No _	her ongoing procurement relationship with		
2. If "Yes" is checked. Identify each suc information such as bid or project numl INSTRUCTIONS:				
THE FOLLO	WING STATEMENT MUST BE CH	ECKED		
	Signature of Authorized Officer	Date		
OWNERSHIP CERITIFICATION				
Please certify that the following statement is of ownership.	strue if the individuals for all submit	ted Form A disclosures do not total 100%		
Any remaining ownership interest is parent entity's distributive income o		han \$106,447.20 of the bidding entity's or interest.		
☐ Yes ☐ No ☐ N/A (Form	A disclosure(s) established 100% of	ownership)		

Illinois Department of Transportation

NOTICE TO BIDDERS

- 1. TIME AND PLACE OF OPENING BIDS. Sealed proposals for the improvement described herein will be received by the Department of Transportation at the Harry R. Hanley Building, 2300 South Dirksen Parkway in Springfield, Illinois until 10:00 o'clock a.m., June 14, 2013. All bids will be gathered, sorted, publicly opened and read in the auditorium at the Department of Transportation's Harry R. Hanley Building shortly after the 10:00 a.m. cut off time.
- 2. DESCRIPTION OF WORK. The proposed improvement is identified and advertised for bids in the Invitation for Bids as:

Contract No. WA067 Waukegan Regional Airport Waukegan, Illinois Lake County Illinois Project No. UGN-4190 SBG Project No. 3-17-0105-B55

Construct Perimeter Fence, Phase 2

3. INSTRUCTIONS TO BIDDERS.

- (a) This Notice, the invitation for bids, proposal and letter of award shall, together with all other documents in accordance with Article 10-18 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 within 60 calendar days 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 <u>N/A</u> at the Waukegan Regional Airport administration building. For engineering information, contact Ronald M. Hudson, AICP of Hanson Professional Services, Inc. at (630) 990-3800.
- 6. DISADVANTAGED BUSINESS POLICY. The DBE goal for this contract is 9.4%.
- 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 May 17, 2013 and the Construction Plans dated May 17, 2013 as approved by the Department of Transportation, Division of Aeronautics.
- 8. 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.

9. 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 78 calendar days.

- 10. 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.
- 11. 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.

By Order of the Illinois Department of Transportation

Susan R. Shea, Ph.D., Director, Division of Aeronautics

ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF AERONAUTICS

REQUIRED CONTRACT PROVISIONS FOR FEDERALLY FUNDED AIRPORT CONSTRUCTION CONTRACTS

The work in this contract is included in the federal FAA Airport Improvement Program and is being undertaken and accomplished by the Illinois Department of Transportation, Division of Aeronautics and the Municipality, hereinafter called the Co-Sponsors, in accordance with the terms and conditions of a Grant Agreement between the Co-Sponsors and the United States, under the Airport and Airway Improvement Act of 1982 (Public Law 97-248; Title V, Section 501 et seq., September 3, 1982; 96 Stat. 671; codified at 49 U.S.C Section 2201 et seq.) and Part 152 of the Federal Aviation Regulations (14 CFR Part 152), pursuant to which the United States has agreed to pay a certain percentage of the costs of the Project that are determined to be allowable Project costs under the Act. The United States is not a party to this contract and no reference in this contract to FAA or representative thereof, or to any rights granted to the FAA or any representative thereof, or the United States, by the contract, makes the United States a party to this contract.

Consent of Assignment. The Contractor shall obtain the prior written consent of the Co-Sponsors to any proposed assignment of any interest in or part of this contract.

Provisions for all Construction Contracts

BUY AMERICAN PREFERENCE (Title 49 U.S.C., Chapter 501)

- (a) The Aviation Safety and Capacity Expansion Act of 1990 provides that preference be given to steel and manufactured products produced in the United States when funds are expended pursuant to a grant issued under the Airport Improvement Program (AIP).
- (b) Any and all steel products used in the performance of this contract by the Contractor, subcontractors, producers, and suppliers are required to adhere to the Illinois Steel Products Procurement Act, which requires that all steel items be of 100 percent domestic origin and manufacture. Any products listed under the Federal Aviation Administration's (FAA) nationwide approved list of "Equipment Meeting Buy American Requirements" shall be deemed as meeting the requirements of the Illinois Steel Products Procurement Act.
- (c) The successful bidder will be required to assure that only domestic steel and domestically manufactured products will be used by the Contractor, subcontractors, producers, and suppliers in the performance of this contract. The North American Free Trade Agreement (NAFTA) specifically excluded federal grant programs such as the AIP. Therefore, NAFTA does not change the requirement to comply with the Buy American requirement in the Act. Exceptions to this are for products, other than steel, that:
 - (1) the FAA has determined, under the Aviation Safety and Capacity Expansion Act of 1990, are not produced in the United States in sufficient and reasonably available quantities or of a satisfactory quality;
 - (2) the FAA has determined, under the Aviation Safety and Capacity Expansion Act of 1990, that domestic preference would be inconsistent with the public interest;
 - (3) the FAA has determined that inclusion of domestic material will increase the cost of the overall project contract by more than 25 percent; or
 - (4) the FAA has determined, under the Aviation Safety and Capacity Expansion Act of 1990,
 - the cost of components and subcomponents produced in the United States is more than 60 percent of the cost of all components of the facility or equipment, and
 - (ii) final assembly of the facility or equipment has occurred in the United States.

The FAA must grant waivers for any items that are included in these above exceptions. Bidders can review items already approved under the FAA nationwide approved list of "Equipment Meeting Buy American Requirements" on the FAA website, which do not require a specific FAA waiver.

All waivers are the responsibility of the Contractor, must be obtained prior to the Notice to Proceed, and must be submitted to the Division of Aeronautics for review and approval before being forwarded to the FAA. Any products used on the project that cannot meet the domestic requirement, and for which a waiver prior to the Notice to Proceed was not obtained, will be rejected for use and subject to removal and replacement with no additional compensation, and the contractor deemed non-responsive.

CIVIL RIGHTS ACT OF 1964, TITLE VI – CONTRACTOR CONTRACTUAL REQUIREMENTS (Title 49 CFR Part 21)

During the performance of this contract, the contractor, for itself, its assignees and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

- 1.1 Compliance with Regulations. The contractor shall comply with the Regulations relative to nondiscrimination in federally assisted programs of the Department of Transportation (hereinafter, "DOT") Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.
- 1.2 Nondiscrimination. The contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.
- 1.3 Solicitations for Subcontracts, Including Procurements of Materials and Equipment. In all solicitations either by competitive bidding or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin.
- 1.4 Information and Reports. The contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Co-Sponsors or the Federal Aviation Administration (FAA) to be pertinent to ascertain compliance with such Regulations, orders, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information, the contractor shall so certify to the Co-Sponsors or the FAA, as appropriate, and shall set forth what efforts it has made to obtain the information.
- 1.5 Sanctions for Noncompliance. In the event of the contractor's noncompliance with the nondiscrimination provisions of this contract, the Co-Sponsor shall impose such contract sanctions as it or the FAA may determine to be appropriate, including, but not limited to:
 - a. Withholding of payments to the contractor under the contract until the contractor complies, and/or
 - b. Cancellation, termination, or suspension of the contract, in whole or in part.
- 1.6 Incorporation of Provisions. The contractor shall include the provisions of paragraphs 1 through 5 in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations or directives issued pursuant thereto. The contractor shall take such action with respect to any subcontract or procurement as the Co-Sponsor or the FAA may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the contractor may request the Co-Sponsor to enter into such litigation to protect the interests of the Co-Sponsor and, in addition, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

AIRPORT AND AIRWAY IMPROVEMENT ACT OF 1982, SECTION 520 - GENERAL CIVIL RIGHTS PROVISIONS (Title 49 U.S.C. 47123)

The contractor assures that it will comply with pertinent statutes, Executive orders and such rules as are promulgated to assure that no person shall, on the grounds of race, creed, color, national origin, sex, age, or handicap be excluded from participating in any activity conducted with or benefiting from Federal assistance. This provision obligates the tenant/concessionaire/lessee or its transferee for the period during which Federal assistance is extended to the airport a program, except where Federal assistance is to provide, or is in the form of personal property or real property or interest therein or structures or improvements thereon. In these cases the provision obligates the party or any transferee for the longer of the following periods: (a) the period during which the property is used by the airport sponsor or any transferee for a purpose for which Federal assistance is extended, or for another purpose involving the provision of similar services or benefits or (b) the period during which the airport sponsor or any transferee retains ownership or possession of the property. In the case of contractors, this provision binds the contractors from the bid solicitation period through the completion of the contract. This provision is in addition to that required of Title VI of the Civil Rights Act of 1964.

LOBBYING AND INFLUENCING FEDERAL EMPLOYEES (Title 49 CFR Part 20)

The undersigned bidder certifies, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have paid or will be paid, by or behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an Officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying", in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

ACCESS TO RECORDS AND REPORTS (Title 49 CFR Part 18.36)

The Contractor shall maintain an acceptable cost accounting system. The Co-Sponsors, the FAA, and the Comptroller General of the United States shall have access to any books, documents, paper, and records of the Contractor which are directly pertinent to the specific contract for the purposes of making an audit, examination, excerpts, and transcriptions. The Contractor shall maintain all required records for three years after the Co-Sponsor makes final payment and all other pending matters are closed.

DISADVANTAGED BUSINESS ENTERPRISES (Title 49 CFR Part 26)

Contract Assurance (§26.13) - The contractor 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 DOT 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.

ENERGY CONSERVATION REQUIREMENTS (Title 49 CFR Part 18.36)

The contractor agrees to comply with mandatory standards and policies relating to energy efficiency that are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Public Law 94-163)

BREACH OF CONTRACT TERMS (Title 49 CFT Part 18.36)

Any violation or breach of terms of this contract on the part of the contractor or their subcontractors may result in the suspension or termination of this contract or such other action that may be necessary to enforce the rights of the parties of this agreement. The duties and obligations imposed by the Contract Documents and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law.

RIGHTS TO INVENTIONS (Title 49 CFR Part 18.36)

All rights to inventions and materials generated under this contract are subject to Illinois law and to regulations issued by the FAA and the Co-Sponsors of the Federal grant under which this contract is executed.

TRADE RESTRICTION CLAUSE (Title 49 CFR Part30)

The Contractor or subcontractor, by submission of an offer and/or execution of a contract, certifies that it:

- is not owned or controlled by one or more citizens or nationals of a foreign country included in the list of countries that discriminate against U.S. firms published by the Office of the United States Trade Representative (USTR);
- b. has not knowingly entered into any contract or subcontract for this project with a Contractor that is a citizen or national of a foreign country on said list, or is owned or controlled directly or indirectly by one or more citizens or nationals of a foreign country on said list.

c. has not procured any product nor subcontracted for the supply of any product for use on the project that is produced in a foreign country on said list.

Unless the restrictions of this clause are waived by the Secretary of Transportation in accordance with 49 CFR 30.17, no contract shall be awarded to a Contractor or subcontractor who is unable to certify to the above. If the Contractor knowingly procures or subcontracts for the supply of any product or service of a foreign country on the said list for use on the project, the Federal Aviation Administration may direct, through the Co-Sponsors, cancellation of the contract at no cost to the Government.

Further, the Contractor agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification without modification in each contract and in all lower tier subcontracts. The Contractor may rely upon the certification of a prospective subcontractor unless it has knowledge that the certification is erroneous.

The Contractor shall provide immediate written notice to the Co-Sponsors if the Contractor learns that its certification or that of a subcontractor was erroneous when submitted or has become erroneous by reason of changed circumstances. The subcontractor agrees to provide immediate written notice to the Contractor, if at any time it learns that its certification was erroneous by reason of changed circumstances.

This certification is a material representation of fact upon which reliance was placed when making the award. If it is later determined that the Contractor or subcontractor knowingly rendered an erroneous certification, the Federal Aviation Administration may direct, through this Co-Sponsor, cancellation of the contract or subcontract for default at no cost to the Government.

Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by this provision. The knowledge and information of a Contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

This certification concerns a matter within the jurisdiction of an agency of the United States of America and the making of false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code, Section 1001.

VETERAN'S PREFERENCE (Title 49 U.S.C. 47112)

In the employment of labor (except in executive, administrative, and supervisory positions), preference shall be given to Veterans of the Vietnam era and disabled veterans as defined in Section 515(c)(1) and (2) of the Airport and Airway Improvement Act of 1982. However, this preference shall apply only where the individuals are available and qualified to perform the work to which the employment relates.

Additional Provisions for Construction Contracts Exceeding \$2,000

DAVIS BACON LABOR PROVISIONS (Title 29 Part 5)

- (1) Minimum Wages.
 - (i) All laborers and mechanics employed or working upon the site of the work will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provision of paragraph (a)(1)(iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in paragraph 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: *Provided*, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph (a)(1)(ii) of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the Contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

- (ii)(A) The contracting officer shall require that any class of laborers or mechanics which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:
 - (1)The work to be performed by the classification requested is not performed by a classification in the wage determination; and

- (2) The classification is utilized in the area by the construction industry; and
- (3)The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.
- (B) If the Contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, D.C. 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.
- (C) In the event the Contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.
- (D) The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (1)(ii) (B) or (C) of this paragraph, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.
- (iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the Contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.
- (iv) If the Contractor does not make payments to a trustee or other third person, the Contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, *Provided*, That the Secretary of Labor has found, upon the written request of the Contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the Contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

(2) Withholding.

The Federal Aviation Administration shall upon its own action or written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the Contractor under this contract or any other Federal contract with the same prime Contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime Contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the Contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the (Agency) may, after written notice to the Contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

(3) Payrolls and basic records.

- (i) Payrolls and basic records relating thereto shall be maintained by the Contractor 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 shall contain the name, address, and social security number of each such work, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the Contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.
- (ii)(A) The Contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the Federal Aviation Administration if the agency is a party to the contract, but if the agency is not such a party, the Contractor will submit the payrolls to the applicant, sponsor, or owner, as the case may be, for transmission to the Federal Aviation Administration. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under paragraph 5.5(a)(3)(i) of Regulations, 29 CFR Part 5. This information may be submitted in any form desired. Optional Form WH-347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal Stock Number 029-005-00014-

- 1), U.S. Government Printing Office, Washington, D.C. 20402. The prime Contractor is responsible for the submission of copies of payrolls by all subcontractors.
- (B) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the Contractor, or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:
 - (1) That the payroll for the payroll period contains the information required to be maintained under paragraph (3)(i) above and that such information is correct and complete;
 - (2) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR Part 3;
 - (3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed as specified in the applicable wage determination incorporated into the contract.
- (C) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph (3)(ii)(B) of this section.
- (D) The falsification of any of the above certifications may subject the Contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 231 of Title 31 of the United States Code.
- (iii) The Contractor or subcontractor shall make the records required under paragraph (3)(i) of this section available for inspection, copying, or transcription by authorized representatives of the (write the name of the agency) or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the Contractor or subcontractor fails to submit the required records or to make them available, the Federal agency may, after written notice to the Contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

(4) Apprentices and Trainees

- (i) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State Apprenticeship Agency recognized by the Bureau, or if a person is employed in his or her first 90 days of probationary employment as a apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the Contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a Contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the Contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Bureau of Apprenticeship and Training, or a State Apprenticeship Agency recognized by the Bureau, withdraws approval of an apprenticeship program, the Contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.
- (ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration

shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ration permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contract will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

- (iii) Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR Part 30.
- (5) Compliance with Copeland Act Requirements.

The Contractor shall comply with the requirements of 29 CFR Part 3, which are incorporated by reference in this contract.

(6) Subcontracts.

The Contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR Part 5.5(a)(1) through (10) and such other clauses as the Federal Aviation Administration may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime Contractor shall be responsible for the compliance by an subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR Part 5.5.

(7) Contract Termination: Debarment.

A breach of these contract clauses paragraphs (1) through (10) of this section may be grounds for termination of the contract and for debarment as a Contractor and a subcontractor as provided in 29 CFR Part 5.12.

(8) Compliance with Davis-Bacon and Related Act Requirements.

All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by referenced in this contract.

(9) Disputes Concerning Labor Standards.

Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the Contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

- (10) Certification of Eligibility.
 - (i) By entering into this contract, the Contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the Contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
 - (ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
 - (iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

MINIMUM WAGES FOR FEDERAL AND FEDERALLY ASSISTED CONSTRUCTION CONTRACTS

This project is funded, in part, with Federal-aid funds and, as such, is subject to the provisions of the Davis-Bacon Act of March 3, 1931, as amended (46 Sta. 1494, as amended, 40 U.S.C. 276a) and of other Federal statutes referred to in a 29 CFR Part 1, Appendix A, as well as such additional statutes as may from time to time be enacted containing provisions for the payment of wages determined to be prevailing by the Secretary of Labor in accordance with the Davis-Bacon Act and pursuant to the provisions of 29 CFR Part 1. The prevailing rates and fringe benefits shown in the General Wage Determination Decisions issued by the U.S. Department of Labor shall, in accordance with the provisions of the foregoing statutes, constitute the minimum wages payable on Federal and federally assisted construction projects to laborers and mechanics of the specified classes engaged on contract work of the character and in the localities described therein.

General Wage Determination Decisions, modifications and supersedes decisions thereto are to be used in accordance with the provisions of 29 CFR Parts 1 and 5. Accordingly, the applicable decision, together with any modifications issued, must be made a part of every contract for performance of the described work within the geographic area indicated as required by an applicable DBRA Federal prevailing wage law and 29 CFR Part 5. The wage rates and fringe benefits contained in the General Wage Determination Decision shall be the minimum paid by contractors and subcontractors to laborers and mechanics.

NOTICE

The most current **General Wage Determination Decisions** (wage rates) are available on the IDOT web site. They are located on the Letting and Bidding page at http://www.dot.state.il.us/desenv/delett.html.

In addition, ten (10) days prior to the letting, the applicable Federal wage rates will be e-mailed to subscribers. It is recommended that all contractors subscribe to the Federal Wage Rates List or the Contractor's Packet through IDOT's subscription service.

PLEASE NOTE: if you have already subscribed to the Contractor's Packet you will automatically receive the Federal Wage Rates.

The instructions for subscribing are at http://www.dot.state.il.us/desenv/subsc.html.

If you have any questions concerning the wage rates, please contact IDOT's Chief Contract Official at 217-782-7806.

Additional Provisions for Construction Contracts Exceeding \$10,000

EQUAL EMPLOYMENT OPPORTUNITY - 41 CFR PART 60-1.4(b)

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

- 1. The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- 2. The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, or national origin.
- 3. The contractor will send to each labor union or representative of workers with which s/he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- 4. The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, as amended, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- 5. The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- 6. In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedure authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- 7. The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provision, including sanctions for noncompliance: *Provided, however,* that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency the contractor may request the United States to enter into such litigation to protect the interests of the United States.

CERTIFICATION OF NONSEGREGATED FACILITIES (41 CFR PART 60-1.8)

The federally-assisted construction contractor certifies that she or he does not maintain or provide, for his employees, any segregated facilities at any of his establishments and that she or he does not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The federally-assisted construction contractor certifies that she or he will not

maintain or provide, for his employees, segregated facilities at any of his establishments and that she or he will not permit his employees to perform their services at any location under his control where segregated facilities are maintained. The federally-assisted construction contractor agrees that a breach of this certification is a violation of the Equal Opportunity Clause in this contract.

As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms, and washrooms, restaurants and other eating areas, timeclocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directives or are, in fact, segregated on the basis of race, color, religion, or national origin because of habit, local custom, or any other reason. The federally-assisted construction contractor agrees that (except where she or he has obtained identical certifications from proposed subcontractors for specific time periods) she or he will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity Clause and that she or he will retain such certifications in his files.

NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION (Title 41 CFR Part 60-4.2)

- 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 contact or subcontract.

AREA COVERED (STATEWIDE)

Goals for Women apply nationwide.

GOAL

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.

Goal

Economic Area	(percent)
056 Paducah, KY: Non-SMSA Counties - IL - Hardin, Massac, Pope KY - Ballard, Caldwell, Calloway, Carlisle, Crittenden, Fulton, Graves, Hickman, Livingston, Lyon, McCracken, Marshall	5.2
080 Evansville, IN: Non-SMSA Counties - IL - Edwards, Gallatin, Hamilton, Lawrence, Saline, Wabash, White IN - Dubois, Knox, Perry, Pike, Spencer KY - Hancock, Hopkins, McLean, Mublenberg, Ohio, Union, Webster	3.5
081 Terre Haute, IN: Non-SMSA Counties - IL - Clark, Crawford IN - Parke	2.5

16	. 7	19.6
	740 Kankakee, IL - Kankakee	9.1
IL	on-SMSA Counties Bureau, DeKalb, Grundy, Iroquois, Kendall, LaSalle, Livingston, Putnam N - Jasper, Laporte, Newton, Pulaski, Starke	18.4
SI 14	mpaign - Urbana, IL: MSA Counties: 400 Champaign - Urbana - Rantoul, IL - ₋ - Champaign	7.8
	on-SMSA Counties - - Coles, Cumberland, Douglas, Edgar, Ford, Piatt, Vermilion	4.8
SI 20	ngfield - Decatur, IL: MSA Counties: 040 Decatur, IL - Macon	7.6
	880 Springfield, IL - ₋ - Mendard, Sangamon	4.5
	on-SMSA Counties Cass, Christian, Dewitt, Logan, Morgan, Moultrie, Scott, Shelby	4.0
086 Quin N	cy, IL: lon-SMSA Counties	3.1
	Adams, Brown, Pike IO - Lewis, Marion, Pike, Ralls	
10	ria, IL: MSA Counties: 040 Bloomington - Normal, IL - McLean	2.5
	120 Peoria, IL - Peoria, Tazewell, Woodford	4.4
	on-SMSA Counties - Fulton, Knox, McDonough, Marshall, Mason, Schuyler, Stark, Warren	3.3
68	kford, IL: MSA Counties: 880 Rockford, IL - L - Boone, Winnebago	6.3
	on-SMSA Counties - - Lee, Ogle, Stephenson	4.6
IL IA	uque, IA: lon-SMSA Counties - JoDaviess A - Atlamakee, Clayton, Delaware, Jackson, Winnesheik /I - 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	14.7
 MO - Franklin, Jefferson, St. Charles, St. Louis, St. Louis City 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 	11.4
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	

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.

EQUAL EMPLOYMENT OPPORTUNITY SPECIFICATION (Title 41 CFR Part 60-4.3)

- 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.
- 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.
 - 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.
 - 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 of 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.
- 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.
- 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.
- 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).

TERMINATION OF CONTRACT (Title 49 CFR Part 18.36)

- 1. The Co-Sponsor may, by written notice, terminate this contract in whole or in part at any time, either for the Co-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 Co-Sponsor.
- 2. If the termination is for the convenience of the Co-Sponsor, an equitable adjustment in the contract price shall be made, but no amount shall be allowed for anticipated profit on unperformed services.
- If the termination is due to failure to fulfill the Contractor's obligations, the Co-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 Co-Sponsor for any
 additional cost occasioned to the Co-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 Co-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 Co-Sponsor provided in this clause are in addition to any other rights and remedies provided by law or under this contract.

Additional Provisions for Construction Contracts Exceeding \$25,000

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION (Title 49 CFR Part 29)

Instructions for Certification

- 1. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.
- 2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such person from participation in this transaction.

- 3. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause of default.
- 4. The prospective primary participant shall provide immediate written notice to the department or agency to whom this proposal is submitted if at any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
- 5. The terms "covered transaction" "debarred" "suspended" "ineligible" "lower tier covered transaction" "participant" "person" "primary covered transaction" "principal" "proposal" and "voluntarily excluded" as used in this clause have the meaning set out in the Definitions and Coverage sections of the rules implementing Executive Order 12540. You may contact the department or agency to which this proposal is being submitted for assistance in obtaining a copy of those regulations.
- 6. The prospective primary participant agrees by submitting this proposal that should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction unless authorized by the department or agency entering into this transaction.
- 7. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion Lower Tier Transaction", provided by the department or agency entering into this covered transaction without modification in all lower covered transactions and in all solicitations for lower covered transactions.
- 8. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to check the Nonprocurement List (Tel. #).
- 9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
- 10. Except for transactions authorized under paragraph 8 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

<u>Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion</u> Primary Covered Transactions

- 1. The prospective primary participant certifies to the best of its knowledge and belief that it and its principals:
 - a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by an Federal department or agency;
 - b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain or performing a public (Federal, State or Local) transaction or contract under a public transaction: violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction or destruction of records, making false statements, or receiving stolen property;
 - c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
 - d. Have not within a three-period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
- 2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

EACH PRIME CONTRACTOR SHALL INSERT IN EACH SUBCONTRACT THE CERTIFICATION IN APPENDIX B, AND FURTHER, SHALL REQUIRE ITS INCLUSION IN ANY LOWER TIER SUBCONTRACT, PURCHASE ORDER, OR TRANSACTION THAT MAY IN TURN BE MADE.

Appendix B of 49 CFR Part 29

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Covered Transactions

This certification applies to subcontractors, material suppliers, vendors and other lower tier participants.

Instructions for Certification

- 1. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.
- 2. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.
- 3. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
- 4. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction, "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.
- 5. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.
- 6. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
- 7. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.
- 8. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
- 9. Except for transactions authorized under paragraph 5 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

<u>Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion</u> <u>Lower Tier Covered Transactions</u>

- 1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Additional Provisions for Construction Contracts Exceeding \$100,000

CONTRACT WORKHOURS AND SAFETY STANDARDS ACT REQUIREMENTS (Title 29 CFR Part 5)

(1) Overtime requirements:

No Contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers, mechanics, watchmen or guards (including apprentices and trainees described in paragraphs 5 and 6 above) shall require or permit any laborer, mechanic, watchman or guard in any workweek in which he/she is employed on such work, to work

in excess of 40 hours in such workweek unless such laborer, mechanic, watchman or guard receives compensation at a rate not less than one and one-half times his/her basic rate of pay for all hours worked in excess of 40 hours in such workweek.

(2) Violations: Liability for Unpaid Wages; Liquidated Damages:

In the event of any violation of the clause set forth in paragraph (1) above, the Contractor and any subcontractor responsible therefore shall be liable for the unpaid wages. In addition, such Contractor and subcontractor shall be liable to the United States (in case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer, mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1) above, in the sum of \$10.00 for each calendar day on which such employee was required or permitted to work in excess of the standard workweek of 40 hours without payment of the overtime wages required by the clause set forth in paragraph (1) above.

(3) Withholding for Unpaid Wages and Liquidated Damages.

The Federal Aviation Administration or the Co-Sponsor shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the Contractor or subcontractor under any such contract or any other Federal contract with the same prime Contractor, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime Contractor, such sums as may be determined to be necessary to satisfy any liabilities of such Contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2) above.

(4) Subcontracts.

The Contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1) through (4) and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime Contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1) through (4) of this section.

(5) Working Conditions.

No Contractor or subcontractor may require any laborer or mechanic employed in the performance of any contract to work in surroundings or under working conditions that are unsanitary, hazardous, or dangerous to his health or safety as determined under construction safety and health standards (29 CFR 1926) issued by Department of Labor.

CLEAN AIR AND WATER POLLUTION CONTROL (Title 49 CFR Part 18.36(i)(12))

In connection with the administration of the Clean Air Act and the Water Pollution Control Act with respect to Federal Grants, specific requirements have been imposed of any contract which is not exempt under the provisions of 40 CFR 15.5.

- (1) Any facility listed on the EPA List of Violating Facilities pursuant to Paragraph 15.20 of 40 CFR as of the date of the contract award will not be utilized in the performance of any non-exempt contract or subcontract.
- (2) The Contractor shall comply with all the requirements of Section 114 of the Clean Air Act, as amended, 42 USC 1857 et seq. and Section 308 of the Federal Water Pollution Control Act, as amended, 33 USC 1251 et seq. relating to inspection, monitoring, entry, reports and information, as well as all other requirements specified in Section 114 and Section 308 of the Air Act and Water Act, respectively, and all regulations and guidelines issued thereunder after the award of the contract.
- (3) Prompt notification shall be required prior to contract award to the awarding official by the Contractor who will receive the award of the receipt of any communication from the Director, Office of Federal Activities, U.S. Environmental Protection Agency, indicating that a facility to be utilized for the contract is under consideration to be listed on the EPA List of Violating Facilities.
- (4) The Contractor shall include or cause to be included the criteria and requirements in paragraphs 1 through 4 in any non-exempt subcontract and will take such action as the Government may direct as a means of enforcing such provisions.

ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF AERONAUTICS

REQUIRED CONTRACT PROVISIONS FOR STATE FUNDED AIRPORT CONSTRUCTION PROJECTS

The following provisions are State of Illinois requirements and are in addition to the REQUIRED CONTRACT PROVISIONS FOR FEDERALLY FUNDED AIRPORT CONSTRUCTION CONTRACTS

DISADVANTAGED BUSINESS POLICY

NOTICE: This proposal contains the special provision entitled "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."

<u>POLICY</u>: 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.

<u>OBLIGATION</u>: 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.

<u>DBE/WBE CONTRACTOR FINANCE PROGRAM:</u> 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).

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.

SPECIAL PROVISION FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION Revised: August 2. 2011

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

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

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

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

OVERALL GOAL SET FOR THE DEPARTMENT: As a requirement of compliance with 49 CFR part 26, the Department has set an overall goal for DBE participation in its federally assisted contracts. That goal applies to all federal-aid funds the Department will expend in its federally assisted contracts for the subject reporting fiscal year. The Department is required to make a good faith effort to

achieve the overall goal. The dollar amount paid to all approved DBE companies performing work called for in this contract is eligible to be credited toward fulfillment of the Department's overall goal.

CONTRACT GOAL TO BE ACHIEVED BY THE CONTRACTOR: This contract includes a specific DBE utilization goal established by the Department. The goal has been included because the Department has determined that the work of this contract has subcontracting opportunities that may be suitable for performance by DBE companies. This determination is based on an assessment of the type of work, the location of the work, and the availability of DBE companies to do a part of the work. The assessment indicates that, in the absence of unlawful discrimination, and in an arena of fair and open competition, DBE companies can be expected to perform 9.4% of the work. This percentage is set as the DBE participation goal for this contract. Consequently, in addition to the other award criteria established for this contract, the Department will only award this contract to a bidder who makes a good faith effort to meet this goal of DBE participation in the performance of the work. A bidder makes a good faith effort for award consideration if either of the following is done in accordance with the procedures set forth in this Special Provision:

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

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

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

- (a) The bidder shall submit a Disadvantaged Business Utilization Plan on Department forms SBE 2025 and 2026 with the bid.
- (b) The Utilization Plan shall indicate that the bidder either has obtained sufficient DBE participation commitments to meet the contract goal or has not obtained enough DBE participation commitments in spite of a good faith effort to meet the goal. The Utilization Plan shall further provide the name, telephone number and telefax number of a responsible official of the bidder designated for purposes of notification of plan approval or disapproval under the procedures of this Special Provision.
- (c) The Utilization Plan shall include a DBE Participation Commitment Statement, Department form SBE 2025, for each DBE proposed for the performance of work to achieve the contract goal. For bidding purposes, submission of the completed SBE 2025 forms, signed by the DBEs and faxed to the bidder will be acceptable as long as the original is available and provided upon request. All elements of information indicated on the said form shall be provided, including but not limited to the following:
 - (1) The name and address of DBE firms that will participate in the contract;
 - (2) A description, including pay item numbers, of the work each DBE will perform;
 - (3) The dollar amount of the participation of each DBE firm participating. The dollar amount of participation for identified work shall specifically state the quantity, unit price and total subcontract price for the work to be completed by the DBE. If partial pay items are to be performed by the DBE, indicate the portion of each item, a unit price where appropriate and the subcontract price amount;
 - (4) DBE Participation Commitment Statements, form SBE 2025, signed by the bidder and each participating DBE firm documenting the commitment to use the DBE subcontractors whose participation is submitted to meet the contract goal;
 - (5) If the bidder is a joint venture comprised of DBE companies and non-DBE companies, the plan must also include a clear identification of the portion of the work to be performed by the DBE partner(s); and,
 - (6) If the contract goal is not met, evidence of good faith efforts.

GOOD FAITH EFFORT PROCEDURE. The contract will not be awarded until the Utilization Plan submitted by the apparent successful bidder is approved. All information submitted by the bidder must be complete, accurate and adequately document that enough DBE participation has been obtained or document the good faith efforts of the bidder, in the event enough DBE participation has not been obtained, before the Department will commit to the performance of the contract by the bidder. The Utilization Plan will be approved by the Department if the Utilization Plan commits sufficient commercially useful DBE work performance to meet the contract goal or the bidder submits sufficient documentation of a good faith effort to meet the contract goal pursuant to 49 CFR part 26, Appendix A.

The Utilization Plan will not be approved by the Department if the Utilization Plan does not commit sufficient DBE participation to meet the contract goal unless the apparent successful bidder documented in the Utilization Plan that it made a good faith effort to meet the goal. This means that the bidder must show that all necessary and reasonable steps were taken to achieve the contract goal. Necessary and reasonable steps are those which, by their scope, intensity and appropriateness to the objective, could reasonably be

expected to obtain sufficient DBE participation, even if they were not successful. The Department will consider the quality, quantity, and intensity of the kinds of efforts that the bidder has made. Mere *pro forma* efforts, in other words, efforts done as a matter of form, are not good faith efforts; rather, the bidder is expected to have taken genuine efforts that would be reasonably expected of a bidder actively and aggressively trying to obtain DBE participation sufficient to meet the contract goal.

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

Also, the ability or desire of a bidder to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Bidders are not, however, required to accept higher quotes from DBE companies if the price difference is excessive or unreasonable.

- (5) Not rejecting DBE companies as being unqualified without sound reasons based on a thorough investigation of their capabilities. The bidder's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the bidder's efforts to meet the project goal.
- (6) Making efforts to assist interested DBE companies in obtaining bonding, lines of credit, or insurance as required by the recipient or Contractor.
- (7) Making efforts to assist interested DBE companies in obtaining necessary equipment, supplies, materials, or related assistance or services.
- (8) Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, state, and federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBE companies.
- (b) If the Department determines that the apparent successful bidder has made a good faith effort to secure the work commitment of DBE companies to meet the contract goal, the Department will award the contract provided that it is otherwise eligible for award. If the Department determines that the bidder has failed to meet the requirements of this Special Provision and that a good faith effort has not been made, the Department will notify the responsible company official designated in the Utilization Plan that the bid is not responsive. The notification shall include a statement of reasons why good faith efforts have not been found.
- (c) The bidder may request administrative reconsideration of a determination adverse to the bidder within the five working days after receipt of the notification date of the determination by delivering the request to the Department of Transportation, Bureau of Small Business Enterprises, Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764 (Telefax: (217)785-1524). Deposit of the request in the United States mail on or before the fifth business day shall not be deemed delivery. The determination shall become final if a request is not made and delivered. A request may provide additional written documentation and/or argument concerning the issues raised in the determination statement of reasons, provided the documentation and arguments address efforts made prior to submitting the bid. The request will be forwarded to

the Department's Reconsideration Officer. The Reconsideration Officer will extend an opportunity to the bidder to meet in person in order to consider all issues of whether the bidder made a good faith effort to meet the goal. After the review by the Reconsideration Officer, the bidder will be sent a written decision within ten working days after receipt of the request for reconsideration, explaining the basis for finding that the bidder did or did not meet the goal or make adequate good faith efforts to do so. A final decision by the Reconsideration Officer that a good faith effort was made shall approve the Utilization Plan submitted by the bidder and shall clear the contract for award. A final decision that a good faith effort was not made shall render the bid not responsive.

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

- (a) DBE as the Contractor: 100 percent goal credit for that portion of the work performed by the DBE's own forces, including the cost of materials and supplies. Work that a DBE subcontracts to a non-DBE does not count toward the DBE goals.
- (b) DBE as a joint venture Contractor: 100 percent goal credit for that portion of the total dollar value of the contract equal to the distinct, clearly defined portion of the work performed by the DBE's own forces.
- (c) DBE as a subcontractor: 100 percent goal credit for the work of the subcontract performed by the DBE's own forces, including the cost of materials and supplies, excluding the purchase of materials and supplies or the lease of equipment by the DBE subcontractor from the prime Contractor or its affiliates. Work that a DBE subcontractor in turn subcontracts to a non-DBE does not count toward the DBE goal.
- (d) DBE as a trucker: 100 percent goal credit for trucking participation provided the DBE is responsible for the management and supervision of the entire trucking operation for which it is responsible. At least one truck owned, operated, licensed, and insured by the DBE must be used on the contact. Credit will be given for the following:
 - (1) The DBE may lease trucks from another DBE firm, including an owner-operator who is certified as a DBE. The DBE who leases trucks from another DBE receives credit for the total value of the transportation services the lessee DBE provides on the contract.
 - (2) The DBE may also lease trucks from a non-DBE firm, including from an owner-operator. The DBE who leases trucks from a non-DBE is entitled to credit only for the fee or commission it receives as a result of the lease arrangement.
- (e) DBE as a material supplier:
 - (1) 60 percent goal credit for the cost of the materials or supplies purchased from a DBE regular dealer.
 - (2) 100 percent goal credit for the cost of materials or supplies obtained from a DBE manufacturer.
 - (3) 100 percent credit for the value of reasonable fees and commissions for the procurement of materials and supplies if not a regular dealer or manufacturer.

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

- (a) <u>NO AMENDMENT</u>. No amendment to the Utilization Plan may be made without prior written approval from the Department's Bureau of Small Business Enterprises. All requests for amendment to the Utilization Plan shall be submitted to the Department of Transportation, Bureau of Small Business Enterprises, Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764. Telephone number (217) 785-4611. Telefax number (217) 785-1524.
- (b) <u>TERMINATION OR REPLACEMENT</u>. The Contractor shall not terminate or replace a DBE listed on the approved Utilization Plan, or perform with other forces work designated for a listed DBE except as provided in the Special Provision.
- (c) <u>CHANGES TO WORK</u>. Any deviation from the DBE condition-of-award or contract plans, specifications, or special provisions must be approved, in writing, by the Department as provided elsewhere in the Contract. The Contractor shall notify affected

DBEs in writing of any changes in the scope of work which result in a reduction in the dollar amount condition-of-award to the contract. Where the revision includes work committed to a new DBE subcontractor, not previously involved in the project, then a Request for Approval of Subcontractor, Department form BC 260A, must be signed and submitted. If the commitment of work is in the form of additional tasks assigned to an existing subcontract, then a new Request for Approval of Subcontractor shall not be required. However, the Contractor must document efforts to assure that the existing DBE subcontractor is capable of performing the additional work and has agreed in writing to the change.

- (d) <u>ALTERNATIVE WORK METHODS</u>. In addition to the above requirements for reductions in the condition of award, additional requirements apply to the two cases of Contractor-initiated work substitution proposals. Where the contract allows alternate work methods which serve to delete or create underruns in condition of award DBE work, and the Contractor selects that alternate method or, where the Contractor proposes a substitute work method or material that serves to diminish or delete work committed to a DBE and replace it with other work, then the Contractor must demonstrate one of the following:
 - (1) That the replacement work will be performed by the same DBE (as long as the DBE is certified in the respective item of work) in a modification of the condition of award; or
 - (2) That the DBE is aware that its work will be deleted or will experience underruns and has agreed in writing to the change. If this occurs, the Contractor shall substitute other work of equivalent value to a certified DBE or provide documentation of good faith efforts to do so; or
 - (3) That the DBE is not capable of performing the replacement work or has declined to perform the work at a reasonably competitive price. If this occurs, the Contractor shall substitute other work of equivalent value to a certified DBE or provide documentation of good faith efforts to do so.
- (e) TERMINATION AND REPLACEMENT PROCEDURES. The Contractor shall not terminate or replace a DBE subcontractor listed in the approved Utilization Plan without prior written consent. This includes, but is not limited to, instances in which the Contractor seeks to perform work originally designated for a DBE subcontractor with its own forces or those of an affiliate, a non-DBE firm, or with another DBE firm. Written consent will be granted only if the Bureau of Small Business Enterprises agrees, for reasons stated in its concurrence document, that the Contractor has good cause to terminate or replace the DBE firm. Before transmitting to the Bureau of Small Business Enterprises any request to terminate and/or substitute a DBE subcontractor, the Contractor shall give notice in writing to the DBE subcontractor, with a copy to the Bureau, of its intent to request to terminate and/or substitute, and the reason for the request. The Contractor shall give the DBE five days to respond to the Contractor's notice. The DBE so notified shall advise the Bureau and the Contractor of the reasons, if any, why it objects to the proposed termination of its subcontract and why the Bureau should not approve the Contractor's action. If required in a particular case as a matter of public necessity, the Bureau may provide a response period shorter than five days.

For purposes of this paragraph, good cause includes the following circumstances:

- (1) The listed DBE subcontractor fails or refuses to execute a written contract;
- (2) The listed DBE subcontractor fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards. Provided, however, that good cause does not exist if the failure or refusal of the DBE subcontractor to perform its work on the subcontract results from the bad faith or discriminatory action of the prime contractor;
- (3) The listed DBE subcontractor fails or refuses to meet the prime Contractor's reasonable, nondiscriminatory bond requirements;
- (4) The listed DBE subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness;
- (5) The listed DBE subcontractor is ineligible to work on public works projects because of suspension and debarment proceedings pursuant to CFR Parts 180, 215 and 1200 or applicable state law;
- (6) You have determined that the listed DBE subcontractor is not a responsible contractor;
- (7) The listed DBE subcontractor voluntarily withdraws from the projects and provides to you written notice of its withdrawal;
- (8) The listed DBE is ineligible to receive DBE credit for the type of work required;
- (9) A DBE owner dies or becomes disabled with the result that the listed DBE contractor is unable to complete its work on the contract;
- (10) Other documented good cause that compels the termination of the DBE subcontractor. Provided, that good cause does not exist if the prime Contractor seeks to terminate a DBE it relied upon to obtain the contract so that the prime Contractor can self-perform the work for which the DBE contractor was engaged or so that the prime Contractor can substitute another DBE or non-DBE contractor after contract award.

When a DBE is terminated, or fails to complete its work on the contract for any reason the Contractor shall make a good faith effort to find another DBE to substitute for the original DBE to perform at least the same amount of work under the contract as the terminated DBE to the extent needed to meet the established contract goal.

- (f) PAYMENT RECORDS. The Contractor shall maintain a record of payments for work performed to the DBE participants. The records shall be made available to the Department for inspection upon request. After the performance of the final item of work or delivery of material by a DBE and final payment therefore to the DBE by the Contractor, but not later than thirty calendar days after payment has been made by the Department to the Contractor for such work or material, the Contractor shall submit a DBE Payment Agreement on Department form SBE 2115 to the Regional Engineer. If full and final payment has not been made to the DBE, the DBE Payment Agreement shall indicate whether a disagreement as to the payment required exists between the Contractor and the DBE or if the Contractor believes that the work has not been satisfactorily completed. If the Contractor does not have the full amount of work indicated in the Utilization Plan performed by the DBE companies indicated in the Utilization Plan and after good faith efforts are reviewed, the Department may deduct from contract payments to the Contractor the amount of the goal not achieved as liquidated and ascertained damages. The Contractor may request an administrative reconsideration of any amount deducted as damages pursuant to subsection (h) of this part.
- (g) <u>ENFORCEMENT</u>. 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.
- (h) <u>RECONSIDERATION</u>. Notwithstanding any other provision of the contract, including but not limited to Article 50-17 of the Standard Specifications, the Contractor may request administrative reconsideration of a decision to deduct the amount of the goal not achieved as liquidated damages. A request to reconsider shall be delivered to the Contract Compliance Section and shall be handled and considered in the same manner as set forth in paragraph (c) of "Good Faith Effort Procedures" of this Special Provision, except a final decision that a good faith effort was not made during contract performance to achieve the goal agreed to in the Utilization Plan shall be the final administrative decision of the Department.

SPECIAL PROVISION FOR SUBCONTRACTOR MOBILIZATION PAYMENTS Revised: April 1, 2011

To account for the preparatory work and the operations necessary for the movement of subcontractor personnel, equipment, supplies, and incidentals to the project site and for all other work or operations that must be performed or costs incurred when beginning work approved for subcontracting according to Section 80-01 of the Standard Specifications, the Contractor shall make a mobilization payment to each subcontractor.

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

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

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

SPECIAL PROVISION FOR PAYMENTS TO SUBCONTRACTORS Revised: January 1, 2006

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

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

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

When progress payments are made to the Contractor according to Article 90-07 of the Standard Specifications, the Contractor shall make a corresponding payment to each subcontractor and material supplier in proportion to the work satisfactorily completed by each subcontractor and for the material supplied to perform any work of the contract. The proportionate amount of partial payment due to

each subcontractor and material supplier throughout the contracting chain shall be determined by the quantities measured or otherwise determined as eligible for payment by the Department and included in the progress payment to the Contractor. Subcontractors and material suppliers shall be paid by the Contractor within 15 calendar days after the receipt of payment from the Department. The Contractor shall not hold retainage from the subcontractors. These obligations shall also apply to any payments made by subcontractors and material suppliers to their subcontractors and material suppliers; and to all payments made to lower tier subcontractors and material suppliers throughout the contracting chain. Any payment or portion of a payment subject to this provision may only be withheld from the subcontractor or material supplier to whom it is due for reasonable cause.

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

SPECIAL PROVISION FOR ADDITIONAL STATE REQUIREMENTS FOR FEDERAL-AID CONSTRUCTION CONTRACTS

Effective: February 1, 1969 Revised: January 1, 2010

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 Contractors 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.

SPECIAL PROVISION FOR 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 one or more acres total land area.

The 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 <u>each</u> 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).

State of Illinois Department of Transportation

SPECIAL PROVISION FOR SECTION 90 MEASUREMENT AND PAYMENT

This Special Provision amends the provisions of the Standard Specifications for Construction of Airports, adopted April 1, 2012 and shall be construed to be a part thereof, superseding any conflicting provisions thereof applicable to the work under the contract.

90-07 PARTIAL PAYMENTS.

DELETE: The entire section.

ADD: Partial payments will be made to the Contractor at least once each month as the work progresses. The payments will be based upon estimates, prepared by the Resident Engineer, of the value of the work performed and materials complete and in place in accordance with the contract, plans, and specifications. Such partial payments may also include the delivered actual cost of those materials stockpiled and stored in accordance with the Section 90-08 PAYMENT FOR MATERIALS ON HAND. From the amount of partial payment so determined, there shall be deducted an amount up to ten percent of the cost of the completed work which shall be retained until all conditions necessary for financial closeout of the project are satisfied. The amount of the estimate approved as due for payment will be vouchered by the Department and presented to the State Comptroller for payment. No amount less than \$1,000.00 will be approved for payment other than the final payment.

It is understood and agreed that the Contractor shall not be entitled to demand or receive partial payment based on quantities of work in excess of those provided in the proposal or covered by approved change orders, except when such excess quantities have been determined by the Engineer to be a part of the final quantity for the item of work in question.

No partial payment shall bind the Department to the acceptance of any materials or work in place as to quality or quantity. All partial payments are subject to correction at the time of final payment as provided in Section 90-09 ACCEPTANCE AND FINAL PAYMENT.

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

In accordance with 49 USC § 47111, the Department will not make payments totaling more than 90 percent of the contract until all conditions necessary for financial closeout of the project are satisfied.

90-10 TRUST AGREEMENT OPTION.

DELETE: The entire section.

SECTION III

SPECIAL PROVISIONS

WAUKEGAN NATIONAL AIRPORT (UGN) WAUKEGAN, LAKE COUNTY, ILLINOIS

CONSTRUCT PERIMETER FENCE, PHASE 2

SBG PROJECT NO. 3-17-0105-B55 ILLINOIS PROJECT NO. UGN-4190

May 17, 2013





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GENERAL

These Special Provisions, together with applicable Standard Specifications, Manuals, Policies, Memorandums, Worksheets, 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 Waukegan National Airport, Waukegan, Lake County, Illinois:

This Project is to extend the perimeter fencing and install gates at Waukegan National Airport including, among other

Construct Perimeter Fence, Phase 2

inci	dental work, the following items:
	Placement of temporary erosion control measures.
	Provide select grading of earth to re-grade fence line and construction of drainage and erosion control facilities.
	Install HDPE drainage pipe and riprap as permanent erosion control.
	Install chain -link fencing.
	Install electric vehicular sliding gates and manual vehicular sliding gates.
	Construct electrical power and control cabling and equipment. Install electric service entrance.
	Install Obstruction Lights.
	Topsoil, seed and mulch fence line and disturbed areas.

GOVERNING SPECIFICATIONS AND RULES AND REGULATIONS

The <u>Illinois Standard Specifications for Construction of Airports</u>, State of Illinois Department of Transportation, Division of Aeronautics, adopted April 1, 2012, as revised (Standard Specifications), shall govern the Project except as otherwise revised or noted in these Special Provisions dated May 17, 2013. All references to IDOT Specifications refer to <u>Standard Specifications for Road and Bridge Construction</u>, Illinois Department of Transportation, adopted January 1, 2012, as revised. Resolution of conflicts with any part or parts of said Specifications shall be in accordance with Section 50-03 of the Standard Specifications.

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ILLINOIS DEPARTMENT OF TRANSPORTATION, DIVISION OF AERONAUTICS MANUALS, POLICIES, MEMORANDUMS AND WORKSHEETS

The Illinois Department of Transportation, Division of Aeronautics, Manuals, Policies, Memorandums and Worksheets that are incorporated into this Project by reference are listed below. Also provided is a notation as to whether all or a portion of each applicable Manual, Policy, Memorandum and Worksheet has been modified by these Special Provisions.

	Manuals	
	<u>Title</u>	Modified by Special Provisions
	Airport Construction Documentation Manual (Updated 10/2012)	No
	Manual for Documentation 0f Airport Materials (Updated 4/01/2010	No
	Policies	
<u>No.</u>	<u>Title</u>	Modified by Special Provisions
07-21	Acceptance Procedure for Finely Divided Materials Used in Portland Cement Concrete and Other Applications	No
96-1	Item 610, Structural Portland Cement Concrete: Job Mix Formula Approval and Production Testing (Updated 4/01/2010)	No
2001-1	Requirements for Cold Weather Concreting (Updated 4/01/2010)	No
	Memorandums and Worksheets	
	<u>Title</u>	Modified by Special Provisions
	Cold Weather Concreting Plan	No

It is the Bidder's and Contractor's responsibility to review and incorporate into their bid and work, the requirements contained in these Manuals, Policies, Memorandums and Worksheets. Copies of each manual, policy, memorandum and worksheet can be found on the Illinois Division of Aeronautics webpage at http://www.dot.state.il.us/aero/aviamanual.html.

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DIVISION I

GENERAL PROVISIONS

SECTION 10

DEFINITION OF TERMS

The Work shall be provided in accordance with Section 10 of the Standard Specifications.

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ADVERTISEMENT, BIDDING, AWARD, AND CONTRACT EXECUTION

The Work shall be provided in accordance with Section 20 of the Standard Specifications.

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SCOPE OF WORK

Revise Section 40 of the Standard Specifications as follows:

<u>40-05</u> <u>MAINTENANCE OF TRAFFIC</u>. Add the following paragraphs:

"A Construction Staging Plan detailing the sequencing of the Contractor's Work throughout the Project shall be furnished to the Resident Engineer by the Contractor at the Pre-construction Conference for the review and approval of the Owner and Project Engineer. Any and all changes to the Construction Staging Plan that is subsequently approved that may be requested by the Contractor after project start must be approved by the Project Engineer and the Airport Owner. It shall be the Contractor's responsibility to provide sufficient advance notice of any proposed staging change to permit consideration and approval by the Project Engineer and the Airport Owner. The Contractor shall not be entitled to any extra compensation nor extension to the Contract time because of a staging change request nor for any time necessary in receiving the required approvals

"At the Pre-construction Conference, the Contractor shall provide a Contractor Coordination Plan that coordinates his Work with the work of his Subcontractors and the work of other contractors of other Airport projects.

"The Contractor shall not have access to any part of the active airfield (runways, taxiways or aprons) for any equipment or personnel without the approval of the Resident Engineer and the Airport Owner. Activities within the Airport Operations Area (AOA) are subject to federal access control. Because of the high requirements for airport security and safety, the following requirements <u>must be</u> adhered to:

- All employees of the Contractor shall park their personal vehicles in the designated equipment parking and storage area. Each person or vehicle entering the Contractor area shall do so in accordance with the policies and procedures of the Airport Owner. 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 be required to be in contact with Airport Operations. This will keep the Contractor in contact with Airport personnel and enable the Airport personnel to immediately contact the Contractor in case of an aeronautical emergency that would require action by the Contractor and/or his personnel.

"The Contractor shall erect and maintain, at no cost to the Contract, directional and informational signs for the Contractor's access routes at the existing construction entrance and for the Contractor's route within the Airport Operations Area, as noted on the Plans, or as directed by the Resident Engineer.

"The Contractor shall remain within the Construction Limits Line shown in the Plans. When outside these limits, all Contractor activities shall remain more than 200 feet from the centerline and 300 feet from the end of active Runway 14-32, and 250 feet from the centerline and 1,000 feet from the end of active Runway 5-23. For work near taxiways and aprons, the Contractor's personnel and equipment must remain at least 65.5 feet from active Category II taxiways and 93 feet from active Category III taxiways, 44.5 feet from active T-hangar taxilanes, and ten (10) feet from active aprons. When construction operations must be conducted within these separations, the pavement must be closed to aircraft activity by the Contractor by providing temporary barricades as shown in the Plans, and in the case of runway pavements, closed runway markers.

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"When working within the "Runway Impact Area" shown on Sheet 3, Site Plan and General Notes, of the Construction Plans, Runway 14-32 shall be closed to air traffic. Work within the Runway Impact Area shall be limited to: 1) daylight hours; 2) VFR (Visual Flight Rules) weather conditions; 3) maximum 12-foot equipment height; 4) maximum duration of eight (8) hours per day, and 5) the runway shall not be closed for more than three (3) consecutive days. The Contractor shall furnish five (5) days advance notice of any runway closing; whose closing shall be approved by the Airport Owner. The Airport Owner will coordinate the runway closures with the Waukegan Air Traffic Control Tower, and furnish Notices to Airmen (NOTAMs) and closed runway markers. The Airport Owner will de-energize airport/runway NAVAIDs, and airfield lighting power and control circuits when required by the Contractor's activities.

"The Contractor shall not proceed with work in the "Runway Impact Area" until after the required coordination, notices and closed runway designation have been completed and the changes to the airport power and control circuits have been made by the Airport Owner.

"Open trenches, excavations and stockpiled material at the construction site shall be delineated with the use of barricades during hours of restricted visibility and/or darkness. No open trenches shall be allowed within the Runway Safety Area (RSA) or the Taxiway Safety Area (TSA) when the runway or taxiway is open to air traffic (including overnight). The RSA is defined as 75 feet from the centerline and 300 feet from the end of Runway 14-32, and 250 feet from the centerline and 1,000 feet from the end of Runway 5-23. The TSA is measured at 39.5 feet from the Category II taxiway centerline and 59 feet from the Category III taxiway centerline, and 24.5 feet from the T-hangar taxilane centerline. No vertical drop of greater than 3-inches in height from pavement edge to earth grade or earth grade to earth grade within the RSA or TSA will be permitted when the runway or taxiway is open to air traffic. The Contractor will have steel plates on-site to allow for the rapid covering of trenches or earth drops in the event of unexpected work stoppages for weather or airport emergencies.

"The Contractor shall keep all of his equipment and personnel at least 15 feet from the edge of any active roadway or auto parking pavement. When his activities require working within 15 feet of the road/pavement edge, the Contractor shall provide for traffic control in accordance with IDOT Specifications (highway standards).

"Contractor's equipment shall extend no higher than 20 feet, except when working in the Runway Impact Area shown on Sheet 3, Site Plan and General Notes, of the Construction Plans, when a height of only 12 feet will be permitted.

"The Contractor must notify the Resident Engineer and the Airport Owner five (5) days in advance of any closing of Runway 14-32; such closing shall be as specified herein. The Contractor must notify the Resident Engineer and the airport Owner 72 hours in advance of any required partial or complete closing of any taxiway or apron. The date, time and scheduled duration of the closing must be approved by the Resident Engineer and the Airport Owner. The Contractor shall notify the Resident Engineer and Airport Owner 72 hours in advance of the Contractor's closing of other active roadways, airfield or roadway lighting circuits, or other Airport facilities.

"Closing of any runway by Contractor activities shall not be permitted in this Project, except as allowed in these Special Provisions.

"All work shall be completed in accordance with the approved Project Safety Plan, issued by the Illinois Division of Aeronautics.

"Failure to use these prescribed procedures or adhere to the safety requirements will result in the suspension of work."

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CONTROL OF WORK

Revise Section 50 of the Standard Specifications as follows:

50-12 LOAD RESTRICTIONS. Add the following:

"By submitting his bid, the Contractor acknowledges that the existing Airport pavements are of the "light-duty" type, requiring his consideration of construction vehicle weights. Any damage to existing Airport pavements shall be repaired by the Contractor at his own expense and to the satisfaction of the Airport Owner and the Resident Engineer.

"The Contractor shall acquaint himself with the load restrictions of all local streets, roadways and highways intended for use as access/haul roads.

The Contractor shall erect and maintain, at no cost to the Contract, directional and informational signs for the Contractor's access routes at the existing construction entrance and for the Contractor's route within the Airport Operations Area, as noted on the Plans or as directed by the Resident Engineer."

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CONTROL OF MATERIALS

Revise Section 60 of the Standard Specifications as follows:

<u>60-05</u> <u>RESIDENT ENGINEER'S FIELD OFFICE</u>. Add the following:

"The Contractor will be required to furnish and maintain a Resident Engineer's Field Office throughout the Project, in accordance with Item 150510 ENGINEER'S FIELD OFFICE."

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LEGAL REGULATIONS AND RESPONSIBILITY TO PUBLIC

The Work shall be provided in accordance with Section 70 of the Standard Specifications.

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PROSECUTION AND PROGRESS

The Work shall be provided in accordance with Section 60 of the Standard Specifications.

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MEASUREMENT AND PAYMENT

The Work shall be provided in accordance with Section 90 of the Standard Specifications.

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DIVISION II

PAVING CONSTRUCTION DETAILS

EARTHWORK

ITEM 150510

ENGINEER'S FIELD OFFICE

Revise Item 150510 of the Standard Specifications as follows:

CONSTRUCTION METHODS

<u>150-2.1</u> Add the following to the first paragraph:

"Should sanitary facilities that are an integral part of the office not be practicable, temporary toilet facilities shall be provided. The temporary facilities must be of a size to **permit use by access-challenged** persons. A **separate** facility for hand washing must also be available and maintained. Solid waste disposal consisting of two (2) waste baskets and an outside trash container of sufficient size to accommodate a weekly-provided pick-up shall be furnished."

Replace Item H. in the list of equipment to be furnished by the Contractor with the following:

"H. One (1) telephone, with touch tone, where available, and telephone answering machine connected to one dedicated phone line, or a cellular phone with voicemail, for exclusive use by the Resident Engineer."

Replace Item I. in the list of equipment to be furnished by the Contractor with the following:

"I. One dry process copy machine (including maintenance and operating supplies) capable of both collating and reproducing prints up to a Ledger Size (11" by 17"); the copier shall be interconnected with Items J. and N. to permit printing directly from the router and the scanner (a separate printer (with maintenance and operating supplies) may also be permitted)."

Replace Item J. in the list of equipment to be furnished by the Contractor with the following:

"J. One (1) Windows®-compatible scanner configured to operate with the wireless router furnished in this item (Item N. as added to the list of items to be furnished), and capable of producing images of documents sized up to 11 inch by 17 inch, for the exclusive use by the Resident Engineer."

Add the following to the list of equipment to be furnished by the Contractor:

- "N. Available for the exclusive use of the Resident Engineer, an Internet service connection using telephone DSL, cable broadband, or wireless (4G minimum speed) technology. Additionally, an 802.11g/n wireless router shall be provided, which will allow connection by the Resident Engineer and up to four engineer staff.
- "O. One (1) 800 watt, 0.8 cubic foot microwave oven.
- "P. Two (2) 28-quart wastebaskets with 8-gallon trash bags.

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"Q. One (1) first aid cabinet - fully equipped."

Delete Item K. in the list of equipment to be furnished by the Contractor.

BASIS OF PAYMENT

<u>150-3.1</u> Revise this Section to read:

"The building fully equipped as specified herein will be paid for at the Contract unit price per lump sum for Engineer's Field Office. This price shall include all utility costs and shall reflect the salvage value of the building, equipment, and furniture, which become the property of the Contractor after release by the Resident Engineer. All telephone calls within Area Code 847 and to Area Codes 217, 224, 312, 331, 630, 708, 773, 779, 815 and 847 shall be included in the cost of the Engineer's Field Office. The Resident Engineer shall reimburse the Contractor for all long distance calls outside of these area codes.

"Payment will be made under:

"Item AR150510 Engineer's Field Office - per lump sum."

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ITEM 151

CLEARING AND GRUBBING

Revise Item 151 of the Standard Specifications as follows:

CONSTRUCTION METHODS

<u>151-2.1</u> <u>GENERAL</u>. Add the following:

"Clearing and grubbing may be performed at any time during the calendar year but prior to any work under Item 152.

"Burning shall not be permitted under this Contract.

"In determining whether a tree shall be measured under "Clearing and Grubbing" or under "Remove Isolated Tree", the definition noted in the third paragraph of Section 151-1.1 of the Standard Specifications shall be used."

BASIS OF PAYMENT

151-4.1 Delete this Section.

151-4.2 Delete this Section.

151-4.3 Add the following:

"Payment will be made under:

"Item AR151450 Clearing and Grubbing - per acre."

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ITEM 152

EXCAVATION AND EMBANKMENT

Revise Item 152 of the Standard Specifications as follows:

Delete all references to measurement and/or payment for excavation by the cubic yard. Excavation furnished under this project shall be measured as a lump sum item.

152-1.1 DESCRIPTION. Revise the first paragraph to read:

"This item shall consist of all select excavation and embankment to furnish a smooth, graded fence line, as prescribed in Item 162, Chain-Link Fences, and for all earth cut, subgrade repair and preparation and material disposal for the installation of the riprap as shown in the Plans and prescribed in Item 156540, Riprap, and for installation of stone around the obstruction light locations, as detailed in the Plans."

Add the following:

"For the purposes of Excavation and Embankment in this Project, this item is to be constructed for aircraft weighing less than 60,000 pounds (Standard Proctor)."

<u>152-1.2</u> <u>CLASSIFICATION</u>. Delete the second paragraph.

Add the following:

"Earthwork cut as required in the Plans may result in an excess of material that cannot be incorporated into the work as fill material when constructing the lines and grades shown in the Plan. All such excess material shall be hauled off-airport at a location authorized by the State of Illinois to accept construction debris. All excess or unstable material shall be used elsewhere in the Work to the extent possible as permitted in the Contract specifications, before the material is hauled away from the Work and disposed of off-airport. Only material identified by the Resident Engineer for haul and disposal shall be hauled from the Work and disposed of at the off-site location. Loading, haul and spreading of the excess material to the on-site disposal site shall not be paid for separately, but shall be included in the Contract unit price for "Unclassified Excavation"."

CONSTRUCTION METHODS

152-2.2 EXCAVATION. Add the following to the fifth paragraph:

"Excess cut material not used in the final grades and shoulders of the Work shall be loaded, hauled and disposed of off-airport at a location authorized by the State of Illinois to accept construction debris. Only material identified by the Resident Engineer for haul and disposal shall be hauled from the Work and disposed of at the off-airport location."

Delete the eighth, ninth, tenth, eleventh and twelfth, thirteenth, and fourteenth paragraphs and Table 1. Replace with the following:

"Embankment furnished under this item shall be compacted as follows:

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"Prior to constructing the embankment, vegetation removal or topsoil stripping shall be performed at the embankment location. Cut material from on-site shall be placed in layers of 12 inches or less, and shaped to facilitate drainage and structural soundness. Compaction of the material shall be furnished by providing five (5) passes of a soil compactor or loaded construction equipment weighing at least 20,000 pounds, to the satisfaction of the Resident Engineer. The excavation/embankment site shall be left with neat lines and grades and sloped to drain. Final shaping shall be as directed by the Resident Engineer. Any vegetation removal or topsoil stripping required for placement at the stockpile location shall **not** be measured separately for payment, but shall be included in the Contract unit price for "Unclassified Excavation".

"The Contractor will not be allowed to haul any materials across existing pavements, except for pavement areas shown for removal in the Plans, or to cross areas designated by the Airport Owner as used for agriculture or which have been seeded under this or previous contracts."

152-2.3 BORROW EXCAVATION. Delete this Section.

Delete this Section.

Add:

152-3.1

<u>152-2.15</u> <u>DUST CONTROL WATERING</u>. This Work shall consist exclusively of the control of dust from construction operations and not for use in the compaction of earth embankment.

Dust shall be controlled by the regular, uniform application of sprinkled water to earth surfaces and shall be applied as directed by the Resident Engineer, in a manner meeting his approval. Dust control watering shall not be paid for separately but shall be considered incidental to this item.

METHOD OF MEASUREMENT

<u>152-3.2</u>	Delete this Section.
<u>152-3.3</u>	Delete this Section.
Add:	
<u>152-3.4</u>	All on-site cut and fill excavation, regardless of classification, including topsoil stripping and excess material disposal, shall not be measured separately for payment, but shall be furnished as a lump sum item.
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Dust control watering will not be measured for payment, but shall be considered incidental to the Contract items for earthwork."

BASIS OF PAYMENT

<u>152-4.1</u>	Delete this Section.
<u>152-4.2</u>	Delete this Section.
<u>152-4.3</u>	Delete this Section.
152- <i>4 4</i>	Delete this Section

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Add:

Payment will be made at the Contract unit price per lump sum for "Unclassified Excavation (LS)". This price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to satisfactorily complete the item.

Payment will be made under:

Item AR152499 Unclassified Excavation (LS) - per lump sum.

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ITEM 156000

EROSION CONTROL

Revise Item 156000 of the Standard Specifications as follows:

MATERIALS

156-2.1 SILT FENCE. Delete the first paragraph of this Section and replace with the following:

"This fence shall be of either a pre-fabricated type or shall be constructed in the field, and regardless of the fabrication method, shall be of materials meeting the dimensions and material requirements shown in the Plans. The fabric for silt fence shall be a woven fabric meeting the requirements of AASHTO M 288 for unsupported silt fence with less than 50 percent geotextile elongation."

Add:

<u>156-2.8</u> <u>EROSION CONTROL BLANKET</u>. Erosion Control Blanket shall be:

Knitted Straw Mat

Straw mat shall be made of a 100% straw-fiber matrix stitched with photodegradable thread between lightweight, photodegradable polypropylene top and bottom nets. Material shall not contain any weed seed or chemical additives. Straw mat shall be North American Green S150 or approved equal. The manufacturer shall furnish a certification with each shipment of blanket stating the number of rolls furnished and that the material complies with the requirements of this Special Provision and all Contract requirements for materials, including the Buy American Preferences Act (49 U.S.C. § 50101).

<u>STAKES FOR EROSION BLANKET</u>. The mat shall be secured with biodegradable stakes acceptable to the Engineer. Metal staples will not be allowed. Separate measurement of the stakes shall not be made, but shall be incidental to the erosion blanket.

CONSTRUCTION METHODS

Add:

EROSION CONTROL BLANKET. Within 24 hours from the time seeding has been performed, the erosion mat shall be placed. Prior to placing the mat, the areas to be covered shall be relatively free of all rocks or clods over 1-½ inches in diameter, and all sticks or other foreign material that will prevent the close contact of the mat or blanket with the seed bed. If as a result of a rain, the prepared seed bed becomes crusted or eroded, or if the eroded places, ruts or depressions exist for any reason, the Contractor will be required to rework the soil until it is smooth and to reseed such areas which are reworked. After the area has been properly shaped, fertilized and seeded, the mat shall be laid out flat, evenly and smoothly, without stretching the material.

The mat shall be laid in accordance with the manufacturer's recommendations. All ends and edges shall be tightly butted together.

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The mat shall be held in place by means of stakes. The stakes shall be driven at a 90-degree angle to the plane of the soil. Stakes shall be spaced not more than 3 feet apart in 3 rows for each strip, with a row along each edge and one row alternately spaced in the middle. All ends shall be fastened by stakes spaced 6 inches apart across the width.

Once turf growth has been established, all non-biodegradable components shall be removed by the Contractor. This would include any item that would interfere with the mowing of the new turf or which might damage mowing equipment. Furthermore, the Contractor shall fill with topsoil or smoothly grade any ruts or gullies that developed during the turf grow in period to the satisfaction of the Owner. This Work shall be considered incidental to this item.

METHOD OF MEASUREMENT

Add:

Erosion Control Blanket shall be the number of square yards of erosion mat installed, maintained, accepted, and removed and accepted by the Resident Engineer.

BASIS OF PAYMENT

Add:

Payment will be made at the Contract unit price per square yard for Erosion Control Blanket. This price shall be full compensation for furnishing all materials, for all preparation and installation of these materials, maintenance through the project, and the removal and disposal of all materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Add:

Payment will be made under:

Item AR156510 Silt Fence - per linear foot.

Item AR156531 Erosion Control Blanket - per square yard.

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ITEM 156540

RIPRAP

Revise Item 156540 of the Standard Specifications as follows:

DESCRIPTION

Delete this paragraph and replace with the following:

"This item shall consist of furnishing, transporting, and placing a protective course of stone (IDOT RR-4), minimum of 24 inches depth, laid as riprap on filter fabric, in the areas and at the locations shown on the Plans."

MATERIALS

<u>156-2.1</u> <u>RIPRAP</u>. Add the following:

"Stone for the riprap shall be Gradation RR-4, in accordance with IDOT Specifications."

CONSTRUCTION METHODS

Delete the first paragraph and replace with the following:

"Prior to the placement of the riprap material, The Contractor shall undercut the designated area 24-inches below finished grade. The undercut material may be used as embankment fill material if it meets the requirements of Item 152 Excavation and Embankment. The riprap shall be 24-inches total depth."

BASIS OF PAYMENT

156-5.1 Add the following:

"Payment will be made under:

"Item AR156544 Riprap-Gradation No. 4 - per square yard."

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ITEM 610

STRUCTURAL PORTLAND CEMENT CONCRETE

Revise Item 610 of the Standard Specifications as follows:

This item shall be provided in accordance with the Standard Specifications for Item 610, Structural Portland Cement Concrete.

BASIS OF PAYMENT

No direct payment will be made for structural Portland cement concrete. The cost of furnishing and installing structural concrete shall be considered incidental to the Contract unit prices for the respective pay items utilizing the concrete. These prices shall be full compensation for furnishing all materials and for all preparation, delivering and installation of these materials, and for all labor, equipment, tools and incidentals necessary to complete the item.

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DIVISION III

FENCING (WIRE FENCES)

ITEM 162

CHAIN-LINK FENCES

(Class E)

Revise Item 162 of the Standard Specifications as follows:

DESCRIPTION

162-1.1 Add the following:

"All metal materials used in the fencing and fencing materials shall be fabricated from steel made in the U. S. Contractor shall provide certification that the steel was 100 percent domestic-made steel, and that the fence materials were fabricated in the United States.

"Base Bid pay items are identified with the "AR" prefix in their number. The Bidder/Contractor shall also furnish alternate pricing for "AS" pay items (Alternate A - two items) and "AT" pay items (Alternate B - two items). In Alternate B, the specified length of chain-link fence shall have a vinyl-black coating instead of a galvanized only coating, and; the 28' electrical sliding gates shall be furnished with a black coating instead of galvanized. Unit prices for both of the "AS" and "AT" pay item numbers shall be furnished by each Bidder/Contractor. In addition to the Base Bid "AR" items, only one of the two Alternates - A (AS pay items) or B (AT pay items) - shall be awarded. Award of the alternates shall be as prescribed in the Bid Proposal documents."

MATERIALS

162-2.1 FABRIC. Add the following:

"For AS items, fabric shall be galvanized/coated. For AT items, fabric shall be vinyl-coated (black) over galvanized/coated."

162-2.3 <u>FENCE POSTS, POST TOPS AND EXTENSIONS, RAILS, GATES BRACES, STRETCHER BARS, AND CLIPS.</u> Add the following:

"Top rail shall be furnished for all fence under this item.

"Fence materials shall meet the specified requirements for 10-foot chain-link fence (posts for the 8-foot high lengths shall be of the same dimensions as that for the 10-foot fence) based upon the details shown in the Construction Plans for the various heights specified.

"Type C pipe may be used. The manufacturer shall furnish test results that indicate that the Type C pipe furnishes the same corrosive resistance as Type A and B pipe, tested in accordance with the materials standard for this item.

"For AT items, fence materials shall be vinyl-coated (black) over galvanized/coated.

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<u>MIRE TIES AND TENSION WIRE</u>. Add the following:

"For AT items, wire ties and tension wire shall be vinyl-coated (black) over galvanized/coated."

Add:

GATE CHAIN AND PADLOCKS. The Contractor shall furnish a new security chain and padlock for each swing or slide gate. Chain shall be 5/16-inch stainless steel cut into a three foot length, for Item AT800963, black vinyl coated. Padlock shall be solid brass body, corrosion resistant and ideal for harsh environments. Padlock dimensions shall be 2-inch shackle, 2-inch wide and 3/4-inch thick. Padlocks shall be keyed to match existing Airport padlock system. The Contractor shall coordinate the furnishing of these padlocks with the Airport Owner."

Add:

<u>CERTIFICATION AND SHOP DRAWINGS</u>. The Contractor shall submit shop drawings detailing all fence items to be furnished for approval by the Project Engineer. The Contractor shall provide a written certification that all fence materials used in the Work meet the Contract Documents.

CONSTRUCTION METHODS

162-3.1 CLEARING FENCE LINE. Add the following:

"All new fence shall be placed along a level, smooth, finished grade. The Contractor shall correct any irregularities in the ground's surface prior to installation of the fence where the irregular surface is located outside of the grading limits shown on the Plans. Also, the Contractor shall re-grade the existing ground where indicated on the Construction Plans to furnish the specified maximum fence elevation. The cost for this grading shall be paid under Item 152. This grading shall not be limited to, but shall be in addition to, the grading shown on the Plans or elsewhere specified."

<u>162-3.2</u> <u>INSTALLING POSTS</u>. Delete the first sentence of the last paragraph and replace with the following:

"All posts shall be set to the minimum depths below the existing ground line as detailed in the Plans. All fence post lengths shall consider the footing depths shown in the details. Concrete encasement shall extend an additional 6-inches below the post end."

Add the following:

"In paved areas, the post hole digging shall be completed so as to minimize any damage to pavements. Prior to the pouring of concrete, the pavement shall be neatly saw cut to the full depth of the asphalt or concrete and at a 24-inch square. Saw-cutting and pavement protection shall not be measured for payment but shall be included in the Contract unit price for new fence. Any damaged pavements shall be replaced by the Contractor to the satisfaction of the Resident Engineer and at no additional costs to the Contract. In existing paved areas and at swing or sliding gate openings, the additional 2-foot buried portion of the fence shall not be installed."

162-3.4 INSTALLING BRACES. Add the following:

"At terminal (end, corner and pull) and gate posts, the fabric shall be fastened to the post with stretcher bars and bands that extend below the existing ground to secure the 24 inches of buried fence fabric."

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<u>162-3.5</u> <u>INSTALLING FABRIC</u>. Add the following:

"Where shown in the Plans, the Contractor shall construct a trench of adequate width and depth (greater than 24 inches) to permit the installation of the fence fabric to extend 24 inches below the ground line. The fabric shall be smooth and even throughout the 24-inch depth. The trench shall be backfilled with excavated material and compacted to the satisfaction of the Resident Engineer. In existing paved areas and at swing or sliding gate openings, the additional 2-foot buried portion of the fence shall not be installed.

"The bottom tension wire shall be located 2 inches above the final ground line."

<u>162-3.6</u> <u>ELECTRICAL GROUNDS</u>. Add the following:

"The fence shall be bonded and grounded as detailed on the Plans. The ground wire connections to the fencing shall be with UL listed grounding connectors of cast bronze body and bronze or stainless steel bolts, nuts, and washers. Grounding connectors shall be sized and suitable for the respective application. Connections to ground rods shall be with UL listed grounding connectors suitable for direct burial in earth or exothermic weld type connectors, Cadweld by Erico Products, Inc., Solon, Ohio, (Phone 1-800-248-9353), Thermoweld by Continental Industries, Inc., Tulsa, Oklahoma (Phone 918-663-1440), or Ultraweld by Harger, Grayslake, Illinois (Phone 1-800-842-7437) or approved equal. Exothermic weld connections shall be installed in conformance with the respective manufacturer's directions using molds suitable for each respective application. Ground rods shall be 5/8-inch diameter by 8 feet long (minimum), UL-listed, copper-clad. Steel used to manufacture ground rods shall be 100 percent domestic steel. Include certification that ground rods are made with 100 percent domestic steel. The ground wire used to bond the fencing to the ground rod shall be #6 AWG bare solid copper conductor. The items furnished and installed in providing the specified grounding shall not be measured separately for payment, but shall be included in the Contract unit price for fencing."

162-3.9 EXISTING FENCE CONNECTIONS. Add the following:

"The furnishing and installing of new, additional or replacement terminal posts, line posts, end posts, fabric and brace spans and any other incidental modifications needed to provide an acceptable connection of the new fence to any existing fence, regardless of type of existing fence, as shown in the Plans or as directed by the Resident Engineer, shall not be paid separately, but shall be included in the Contract unit price for new fence."

162-3.11 FENCE AND GATE REMOVAL. Add the following:

"The fence to be removed shall be chain-link, architectural aluminum or steel, wooden, woven wire or any other fence type. The existing fence shall be removed completely, including posts and foundations.

"In turf areas, the existing posts shall be pulled and not cut off. All resulting holes in turf shall be filled and compacted to the satisfaction of the Resident Engineer. Turf areas disturbed by removal shall be restored in accordance with Item 901, except the areas will not be measured for payment.

"In paved areas, the existing posts shall be cut off and ground flush with the existing pavement surface. All resulting post holes in existing pavements shall be filled with an IDOT-approved nonshrink grout.

"All removed materials not accepted by the Airport Owner, shall be disposed of off airport property."

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Add:

LOCATE EXISTING UTILITIES. The location, size, and type of material of existing underground and/or aboveground utilities that may be 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 Owner's Representative and/or the Resident Engineer shall also be immediately notified. Any damage to such mains and services shall be restored to service at once and paid for by the Contractor at no additional cost to the Contract. All utility cables and lines shall be located by the respective utility.

Contact JULIE (Joint Utility Location Information for Excavators) for utility information, phone: 1-800-892-0123. Contact the FAA (Federal Aviation Administration) for assistance in locating FAA cables and utilities. Location of FAA power, control, and communication cables shall be coordinated with and/or located by the FAA. Also, contact Airport Director/Manager and Airport Personnel for assistance in locating underground Airport cables and/or utilities. Also, coordinate work with all aboveground utilities.

METHOD OF MEASUREMENT

162-4.3 Revise this Section to read:

"162-4.3 Fence Removal to be paid shall be the actual length of feet (including post widths) removed regardless of type (chain-link, architectural aluminum or steel, wooden, woven wire or other), except for the space occupied by gates.

BASIS OF PAYMENT

162-5.3 Revise this Section to read:

"162-5.3 Payment shall be made at the Contract unit price per linear foot for Fence Removal, as measured in Section 162-4.3. This price shall be full compensation for furnishing all materials and for all removals, restoration, including grading, backfilling, seeding and mulching, and disposal, and for all labor, equipment, tools, and incidentals necessary to complete this item."

Add:

Payment will be made under:

Item AR800944 CL. E Fence 10' BARB w/ 2' Bur. GALV - per linear foot.
Item AR800945 Class E Fence 8' BARB - per linear foot.
Item AR800991 Remove Fence - per linear foot.
CL. E Fen 10' w/o BARB 2' Bur. GALV - per linear foot.
Item AT800962 CL. E Fen 10' w/o BARB 2' Bur. VINYL - per linear foot.

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ITEM 800947

ELECTRICAL SLIDING GATE

DESCRIPTION

This item shall consist of furnishing and installing new electrical sliding gate (8 feet in height with a 28-foot clear opening, as detailed herein for the respective gate) in accordance with these Specifications and at the locations shown on the Construction Plans. This item will include all labor, equipment, and materials required to put the proposed electric sliding gate in proper working order. This item shall also include furnishing and installing all circuit breakers, surge arresters/protectors, disconnects, conduits, ducts, 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, conduits, and duct related to the electric feeder, branch circuits, and/or control wiring for each gate operator shall be incidental to the respective item of work for which it is being installed.

Gate fabric, posts, braces, fittings and related materials shall meet the requirements of Item 162. For Item AT800963 the fabric, gate posts, and related materials shall be vinyl-coated (black) over galvanized/coated in accordance with Item 162.

The electric gate system for each gate shall include the following features:

- A. New slide gate with operating hardware, gate operator, heater, controller, and detector amplifiers. Include associated concrete foundations.
- B. The gate shall be a keypad access control unit entry/free exit gate.
- C. 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.
- D. Provide twenty (20) remote control transmitter units for automatic gate operation. Coordinate frequencies with the Airport Manager.
- E. Power for the gate operator shall be from a 120/240 VAC, 1 phase, 3 wire panelboard as detailed on the Plans.
- F. Controls, safety devices, and associated control wiring shall be in accordance with the respective gate operator and/or equipment manufacturer's recommendations and detailed herein.
- G. Include surge protection on the gate operator and associated control systems.
- H. Contractor shall confirm and verify par numbers for respective materials and equipment to ensure they are correct and suitable for the respective application.
- I. Contractor shall examine the existing facility to determine the extent of the work.
- J. Engage a factory trained and authorized service representative to provide commissioning, start-up, testing, adjustments, calibration and checkout for each electrically operated gate.

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800947-1.2 REFERENCES.

- A. ANSI C80.1 Rigid Steel Conduit, Zinc Coated.
- B. ANSI C80.4 Fittings Rigid Metal Conduit and EMT.
- C. ASTM F 1184-05 Standard Specification for Industrial and Commercial Horizontal Slide Gates.
- D. ASTM F1043 Standard Specification for Strength and Protective Coatings on Steel Industrial Chain Link Fence Framework.
- E. ASTM F2200 Standard for Automated Vehicular Gate Construction.
- F. FAA AC No. 150/5370-2F (or most current issue) "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION".
- G. Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Adopted January 1, 2012.
- H. NEMA TC-2 Electrical Plastic Tubing and Conduit.
- I. NEMA TC-3 Fittings Rigid PVC Conduit and Tubing.
- J. NFPA 70 National Electrical Code (most current issue in force).
- K. NFPA 70E Standard for Electrical Safety in the Workplace.
- Use the Company of the
- M. UL Standard 6 Rigid Metal Conduit.
- N. UL 325, (Fourth Edition), Standard for Safety for Door, Drapery, Gate, Louver and Window Operators and Systems.
- O. UL Standard 651 Schedule 40 and 80 Rigid PVC Conduit.
- P. UL Standard 514B Conduit, Tubing and Cable Fittings.
- 800947-1.3 SHOP DRAWINGS. The Contractor shall furnish shop drawings for approval before ordering material and equipment for the following system components. 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. Separate shop drawings shall be prepared for each electric gate. Contractor shall submit sufficient copies of shop drawings to meet the needs of his personnel, sub-contractor personnel, and equipment suppliers plus four (4) copies to be retained by the Project Engineer. Shop drawings shall include the following information:

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- A. Certification of compliance with the AIP (Airport Improvement Program) Buy American Act Title 49 USC Section 50101 for all materials and equipment. Do not submit ARRA (American Recovery and Reinvestment Act) certification as a substitute for certification of compliance with the AIP Buy American Preferences. Shop drawings submitted without certification of compliance with the Airport Improvement Program Buy American Preferences or without certification of manufacture in the United States of America in accordance with the AIP Buy American Requirements will be rejected. See the FAA website at: http://www.faa.gov/airports/aip/buy_american/ for more information on the Airport Improvement Program Buy American Preferences requirements.
- B. In order to expedite the shop drawing review, inspection and/or testing of materials and equipment, the Contractor shall furnish complete statements to the Project Engineer as to the origin and manufacturer of all materials and equipment to be used in the work. Such statements shall be furnished promptly after execution of the Contract but, in all cases, prior to delivery of such materials and equipment.
- C. Certification that all steel used with the gate installation is manufactured from 100 percent domestic steel.
- D. Cut sheets and specifications for the cantilever slide gate.
- E. 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, audible beeper option, etc.).
- F. Cut sheets and specifications for the keypad access control station.
- G. Include information, specs, and cut sheets for the surge suppressor included with the gate operator.
- H. Provide data sheets for the detector amplifiers with manufacturer's name and model number. Include lightning protection on the detector amplifiers.
- I. Provide data sheets on the loop/lead-in cables.
- J. Provide cut sheets, information, voltage rating, amperage rating, manufacturer catalog number, fuse size and manufacturer catalog number, and options for the 30 amp, 3-pole, 600 VAC, UL listed heavy duty safety switch in a NEMA 4X stainless steel enclosure that is for the gate operator.
- K. Provide cut sheets for the Control Panel Enclosure/Junction Box.
- L. Provide cut sheets for the Remote control transmitters and radio receiver.
- M. Provide cut sheets for all types of conduit used with the electric gate (for example galvanized rigid steel conduit, Schedule 40 PVC conduit, and UL listed liquid tight flexible metal conduit). Include certification that steel conduits are made with 100 percent domestic steel.
- N. Provide shop drawing with cut sheets for the respective power circuit conductors and control circuit conductors.
- O. 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 electric gate installation. Include certification that ground rods are made with 100 percent domestic steel.

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P. Concrete mix design, per Item 610.

EQUIPMENT AND MATERIALS

- 800947-2.1 GENERAL. All equipment and materials used in the construction shall be in accordance with the Specifications and detailed instructions as furnished by the manufacturer.
- 800947-2.2 GATE. Gate shall be suitable for the respective application and in accordance with the respective gate manufacturer's recommendation for the respective application. Gate construction shall comply with ASTM F 1184 05 for Type II Cantilever Slide, Class 2 steel frame and aluminum frame gates using internal rollers. Metal pipe and tubing used in the gate construction shall be aluminum complying with ASTM F1043 for materials and protective coatings. The gate shall conform to ASTM F2200 Standard for Automated Vehicular Gate Construction. The gate shall be metal framed manufactured of aluminum, with cross bracing, sliding gate, cantilever type, capable of spanning the prescribed clear opening, 8 feet in height and have an enclosed roller assembly to be protected from freezing rain and snow. Gate shall have double tracks supported by gate posts on each side of the gate (interior and exterior). The gate frame shall be supported from the tracks by four, self aligning, 4 wheeled, sealed lubricant, ball bearing truck assemblies.

The gate shall be covered with chain link fence fabric; 2 inch 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. Drive rail shall be galvanized steel (or as recommended by the respective gate operator manufacturer) properly sized, designed, and suitable for use with the respective gate operator and in accordance with the respective gate operator's recommendation. All portions of the gate, frame, fabric, posts, braces, fasteners and miscellaneous items shall be galvanized. For Item AT800963 the fabric, gate posts, and related materials shall be vinyl-coated (black) over galvanized/coated in accordance with Item 162.

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 feet but not over 30 feet. Gate posts shall be minimum 4-inch O. D. (round) Schedule 40 weighing 9.11 lbs/foot. Gate shall be a Fortress Structural Slide Gate as manufactured by Tymetal Corporation, Schuylerville, NY, Phone: 1-800-328-4283 or 518-692-9930, Fax: 518-692-9404, or approved equal. For Item AT800963, gate posts shall be finished vinyl coated (black).

800947-2.3 GATE OPERATOR. The operator shall be complete with electric motor and factory-prewired motor controls, gear reduction unit, solenoid operated brake, clutch, and remote control operation. The gate must be closed and locked when not in use. A gate is considered locked when it is equipped with an electric opening or closing device that, when closed, prevents the gate from being opened by hand. During power outages, the lock must fail in the locked position. Provide hand-operated disconnect or mechanism for automatically engaging a sprocket chain operator and releasing brake for emergency manual operation. Include interlock device to automatically prevent motor from operating when emergency sprocket is engaged. The operator shall be equipped with a minimum 1.0 horsepower electric motor (larger motors will be required where recommended by the respective gate operator manufacturer for the respective size and type of gate) capable of operating a 33 foot (clear opening)/50 foot (overall length) cantilever gate weighing up to 1,700 pounds with a gate speed of approximately 1 foot per second, to close the prescribed opening. Gate operator shall be properly sized and compatible with the respective gate. 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 proximity card reader, loops, system power supply, and any other associated controls.

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The operator housing shall be fully enclosed, NEMA 3R, weather-resistant, hinged, lockable, 16-gauge (minimum) steel enclosure fabricated from stainless steel, or galvanized steel with a corrosion resistant, powder coated paint finish (black to match fence fabric). Appropriate time delays shall be incorporated for safe gate operation. Gate shall close automatically after an extensive adjustable delay period, unless manually disabled. Include audible beeper on the gate operator for indication of gate activation and movement. Gate operator shall be equipped with a heater to allow operation within a temperature range of minus 40 Deg F. to 149 Deg. F. ambient temperature, in rain, snow, sun, and high humidity. The gate operator shall be UL 325, (Fourth Edition) listed and suitable for Class III and Class IV applications. The gate operator shall include UL 325 entrapment protection sensors Type A - Inherent entrapment sensing system and Type E - inherent audio alarm to warn personnel of gate activation to comply with the requirements of UL 325 for a Class III usage application. The proposed operator shall be as Linear OSCO Model HSLG-121, or approved equal. Confirm proper model number with the manufacturer. Supply voltage for the gate operator will be 120/240 VAC, 1-phase, 3-wire with ground. Gate operators shall be rated for the respective voltage available at the site. Contractor shall confirm with the gate operator manufacturer that the respective gate operator he selects is rated suitable for the respective application, is suitable and compatible with the respective gate, and will operate properly on the respective power supply. Gate operators shall be rated for the respective voltage available at the site and shall properly operate on the respective nominal voltage system plus or minus 10 percent. Note the gate operator must also operate properly on standby engine generator power and shall not require manual reset due to transfer from utility power to standby generator power or back to utility power. The gate operator must not require manual reset for momentary power outages. Where a power outage occurs the gate operator shall automatically resume normal operation upon restoration of power.

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 suitable for UL 325 Usage Classes III and Class IV applications. The gate operator shall include UL 325 entrapment protection sensors Type A - Inherent entrapment sensing system and Type E- inherent audio alarm to warn personnel of gate activation to comply with the requirements of UL 325 for a Class III usage application.

All gate operators furnished on this project shall be by the same manufacturer.

Include AC surge protector/transient voltage surge suppressor at the point of the input power connection to the gate operator. AC surge protector shall be UL 1449 listed with a surge current rating of 40,000 Amps, suitable for 120/240 VAC, 1 phase, 3 wire plus ground system; Joslyn Model 1265-21, Lightning Protection Corp. Model LPC-11765U-13, Square D Catalog Number TVS120XR50S, or approved equal.

The gate operator foundation shall be a minimum of 48 in. depth, to the dimensions recommended by the manufacturer. Foundation shall be constructed of Class SI concrete. Anchor bolts shall be per the gate operator manufacturer's requirements. The concrete must have strength of 3,500 psi after 14 days.

800947-2.4 CARD READER UNIT. Keypad access control unit shall be capable of accepting up to 50 different 4 digit codes. Input operating voltage shall be 12 to 24 VAC or VDC (and/or compatible with the respective gate operator control voltage). Keypad access control unit shall be suitable for outdoor installation with a weatherproof housing and operating temperature range of 15 F to +160 F. Contractor shall ensure compatibility between the gate operator control voltages, the keypad access control unit input voltage and output contact ratings, and the respective control interface. Contractor shall include interfacing relays and/or transformers as applicable. Keypad access control unit shall be surface mount housing with appropriate adapters and hardware to install on a gooseneck type pedestal. The key pad and pedestal shall be powder-coated finish in black.

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The keypad access control unit shall be constructed as detailed on the Construction Plans and in accordance to the manufacturer's Specifications. Keypad access control unit shall be Model Advantage DKLP 19 50 Series as manufactured by American Access Systems, Inc., 7079 South Jordan Road, Unit 6, Englewood, CO 80112, Phone: 303-799-9757 or 1-800-541-5677, Fax: 303-799-9756, or approved equal.

The concrete foundation for the keypad unit shall be a minimum of 48 inches below ground level and to the dimensions recommended by the manufacturer. The concrete shall have the same requirements of the gate operator foundation.

Contractor shall ensure compatibility between the gate operator control voltages, the keypad access control unit input voltage and output contact ratings, and the respective control interface. Include 120 VAC, 15 Amp or 20 Amp specification grade simplex receptacle that is compatible with the respective power supply. Contractor shall include interfacing relays, transformers, power supplies, receptacles, control devices, and power and control wiring, as applicable. Contractor shall provide a NEMA 4X stainless steel enclosure to house the receptacle, transformer, and other associated controls. Where the gate operator housing control panel has adequate space, the components may be installed in that panel.

- <u>BO0947-2.5</u> <u>DETECTOR AMPLIFIERS.</u> 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 30 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. Contractor shall verify the selected loop detector is suitable for the respective gate installation.
- 800947-2.6 SECONDARY SAFETY DEVICES. The gate operator shall include UL 325 entrapment protection sensors Type A Inherent entrapment sensing system and Type E inherent audio alarm to warn personnel of gate activation to comply with the requirements of UL 325 for a Class III usage application.
- 800947-2.7 POWER SOURCE. Power for the gate operator shall be from a 120/240 VAC, 1 phase, 3 wire panelboard located as detailed on the Plans. Power to each gate operator shall be 120/240 VAC, 1 phase, 3 wire with ground and will be incidental to the respective electric slide gate installation. Note where the respective gate operator system requires a voltage system other than 120/240 VAC, 1 phase, 3 wire with ground, the Contractor shall be responsible to furnish and install the respective transformers and/or additional feeder cable conductors to accommodate the required voltage system. The power cable feeder circuit shall be sized in accordance with the gate operator manufacturer recommendations, and in accordance with National Electrical Code. Take in to account voltage drop for the respective cable length/run for the power source to the gate operator, and increase cable sizes to maintain a voltage drop of 5% or less, or in accordance with the gate operator manufacturer's recommendations. Include an equipment ground wire with the feeder circuit of the same size as the phase conductors. The Contractor will be responsible for providing all necessary material for the installation of electrical power and control wiring from the power source to the gate operator, from the gate operator to the key pad station, and from the gate operator to the detector loops. 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.

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800947-2.8 CONTROL WIRING. Control wiring for the gate operator system shall be as detailed on the Plans, as specified herein, and as recommended by the respective gate operator manufacturer's representative and shall conform to the applicable sections of National Electrical Code. Contractor shall furnish and install the type, size, number, and quantity of control wiring to provide a complete and operational system for the respective gate operator. Control wires between devices shall be Copper, Type THWN, No. 14 minimum, or as recommended by the respective equipment manufacturer, color coded and tagged with wire markers for easy identification. The control wiring between the card reader station and the gate operator shall include a #12 AWG THWN or XHHW Copper with green colored insulation equipment ground wire.

Induction loop feed wires shall be Copper, No. 12 minimum, Twin-Twisted-Shielded, meeting the State of Illinois, Department of Transportation, specifications and all the requirements of manufacturer of the respective Detector Amplifier furnished. Detector loop wires shall conform to the requirements Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Section 1079, DETECTOR LOOP, and all requirements of the manufacturer of the respective Detector Amplifier that is furnished.

One (1.0) - inch 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, from the photoelectric eye safety devices to the operator, and from the operator to the detector loops. All metal conduits entering the gate operator shall be bonded to the frame of the gate operator.

- 800947-2.9 REMOTE RECEIVER. The Contractor shall provide a remote receiver for each gate operator. Remote receiver shall have frequency as specified by the Airport Manager. Remote receiver shall have proper shielding to eliminate potential problems caused by stray radio frequency interference or noise. Remote receiver shall be high quality and capable of being activated by the respective transmitter at a distance of up to 100 feet. The Contractor is responsible to provide a properly operating receiver and transmitter pair for each gate operator. Antenna for receiver shall be mounted above the fence to ensure proper operation by remote transmitter from a distance of up to 100 feet. Include all support and mounting hardware for antenna.
- 800947-2.10 <u>REMOTE TRANSMITTERS</u>. The Contractor shall provide with the remote receiver, 20 remote transmitters for use by Airport or other authorized personnel. Remote transmitter shall be high quality and capable of activating the respective receiver at a distance of up to 100 feet. Coordinate programming of frequency with the Airport Manager.
- SAFETY SWITCHES. 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 4X stainless steel enclosures. 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, Eaton Cutler-Hammer, or equivalent. Safety switches shall be manufactured in the United States to comply with the "Buy American Act".
- 800947-2.12 <u>FUSES</u>. Fuses shall be UL listed, of the size and type as shown in the Plans. Fuses shall be properly sized and suitable for the respective equipment in accordance with the respective equipment manufacturer's recommendations and/or in accordance with the requirements of National Electrical Code for the respective motor/equipment. Fuses shall be manufactured by Bussmann, Littlefuse, or approved equal. Furnish two additional fuses of each size and type used on the project, for use as spares.

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- 800947-2.13 GALVANIZED RIGID STEEL CONDUIT. Galvanized rigid steel conduit (GRSC) shall be heavy wall hot dipped galvanized steel pipe bearing the UL label and conforming to UL 6 and ANSI Specification C80.1. Couplings, connectors, and fittings for rigid steel conduit shall be threaded galvanized steel or galvanized malleable iron specifically designed and manufactured for the purpose. All fittings shall be threaded type. Fittings shall conform to ANSI C80.4. Set screw type fittings are not acceptable. Steel used to manufacture conduits shall be 100 percent domestic steel. Contractor shall provide certification that the respective steel conduits used on this project are manufactured from 100 percent domestic steel.
- <u>800947-2.14</u> <u>LIQUID TIGHT FLEXIBLE METAL CONDUIT</u>. 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 NEC. **Liquid-tight, flexible metal conduit and associated fittings shall be UL-listed to meet the requirements of NEC 350.6**. Liquid-tight, flexible metal conduit shall be Anaconda Sealtite Type UA, as manufactured by Anamet Electrical Inc., 1000 Broadway Avenue East, Mattoon, Illinois 61938-0039, (Phone: 217-234-8844), Liquatite Type LA as manufactured by Electri-Flex Company, 222 W. Central Ave., Roselle, Illinois 60172, (Phone: 630-529-2920 or 1-800-323-6174), or approved equal. Do not install liquid-tight, flexible metal conduit that is not UL listed. Confirm liquid-tight, flexible metal conduit bears the UL label prior to installation.
- 800947-2.15 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), TC-3 (Fittings), UL-651 (Standard for rigid nonmetallic conduit), and UL-514B. 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.
- 800947-2.16 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 2011 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.
- 800947-2.17 GROUND RODS. Ground rods for electrical installations shall be 3/4 inch diameter by 10 foot long, UL listed, copper clad with 10 mil minimum copper coating. Ground rods for fence grounding shall be 5/8 inch diameter by 8 foot long, UL listed, copper clad with 10 mil minimum copper coating. Steel used to manufacture ground rods shall be 100 percent domestic steel.

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- 800947-2.18 <u>LEGEND PLATES</u>. 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.
- 800947-2.19 SIGNAGE. The gate shall include signage as detailed on the Plans. Furnish and install warning signs at gate exterior face and interior face noting "WARNING MOVING GATE CAN CAUSE SERIOUS INJURY OR DEATH". Signage shall be secured to the gate with corrosion resistant metal connectors.
- 800947-2.20 CONCRETE. Concrete for use with the gate installation and/or associated equipment shall conform to Item 610 Portland Cement Concrete of the Standard Specifications for Construction of Airports.
- 800947-2.21 SECURITY CHAIN AND PADLOCK. The Contractor shall furnish a new security chain and padlock for slide gate (electric). Chain shall be 5/16-inch stainless steel cut into a three foot length, for Item AT800963, black vinyl coated. Padlock shall be solid brass body, corrosion resistant and ideal for harsh environments. Padlock dimensions shall be 2-inch shackle, 2-inch wide and 3/4-inch thick. Padlocks shall be keyed to match existing Airport padlock system (Best Access). The Contractor shall coordinate the furnishing of these padlocks with the Airport Owner.

CONSTRUCTION METHODS

- 800947-3.1 CONTRACTOR QUALIFICATIONS. The Contractor responsible for installing the electric driveway gates shall be certified by the manufacturer. The Contractor must have attended training and obtained certification directly from the gate manufacturer. The Contractor shall have at a minimum of five (5) years related experience installing electric driveway gates.
- 800947-3.2 AIRPORT SECURITY. The Contractor will place temporary fencing (minimum height to match existing fence) across the gate opening whenever the proposed gate cannot be closed at the end of the construction day. Security at the Airport shall be maintained at all times and coordinated with the Airport Manager.
- 800947-3.3 SPLICES. Splices, where allowed, shall be the resin encapsulating type, suitable for direct burial, and be as manufactured by 3 M, Burndy, or equal.
- 800947-3.4 MATERIALS FURNISHED BY THE CONTRACTOR. All material 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 material not otherwise specifically indicated shall be furnished by the Contractor. All material furnished by the Contractor shall be new.
- 800947-3.5 STORAGE OF MATERIALS. Material 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.
- 800947-3.6 LOCATE EXISTING UTILITIES. The location, size, and type of material of existing underground and/or aboveground 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.

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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 Owner's Representative and/or the Resident Engineer shall also be immediately notified. Any damage to such mains and services shall be restored to service at once and paid for by the Contractor at no additional cost to the Contract. All utility cables and lines shall be located by the respective utility. Contact JULIE (Joint Utility Location Information for Excavators) for utility information, phone: 1-800-892-0123. Contact the FAA (Federal Aviation Administration) for assistance in locating FAA cables and utilities. Location of FAA power, control, and communication cables shall be coordinated with and/or located by the FAA.

Also contact Airport Director/Manager and Airport Personnel for assistance in locating underground Airport cables and/or utilities. Also coordinate work with all aboveground utilities.

- 800947-3.7 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. Any installations which void the UL listing, ETL listing, (or other third party listing), and/or the manufacturer's warranty of a device will not be permitted.
- 800947-3.8 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.
- 800947-3.9 <u>CLEAN UP.</u> 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.
- <u>WARRANTY PERIOD</u>. Neither the final certificate of payment nor any provision in the Contract, not partial or entire use of the improvement 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 there from 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 warranty applies to equipment furnished, as well as to all other work and materials. The gate operator shall include a 5-year limited warranty against all defects in materials or workmanship. Defective material shall be replaced with the same or comparable materials furnished by the gate operator manufacturer, at no cost to the Owner.
- 800947-3.11 <u>ELECTRIC SLIDING GATE CONSTRUCTION</u>. The Contractor shall install the electric sliding 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, card reader, and associated equipment.

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- 800947-3.12 GATE CONTROL EQUIPMENT. Installation of all electrical equipment and all gate control equipment shall be in conformance with the requirements of the NFPA 70 National Electrical Code (NEC) 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 control power transformers, power supplies, receptacles, loop detector amplifiers, secondary safety device equipment, and any other associated controls shall be installed either inside the gate operator control panel or inside a separate NEMA 4 stainless steel control panel enclosure. Where the control equipment is to be installed inside the gate operator control panel, the Contractor shall coordinate this with the gate operator manufacturer and the respective gate operator equipment supplier. Locating these controls outside of gate operator control panel but within the gate operator housing will not meet this requirement. All card stations, push button 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.
- 800947-3.13 INSTALLATION OF DETECTOR LOOPS. 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 activate closure of the gate onto vehicles parked in the gate opening. Induction loops shall be installed in saw-cut grooves created by the Contractor 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 bituminous/concrete pavement by completely backfilling and covering slot with a sealer such as #E707 by Bondo, #491 HP by Euclid Chemical Company, or an approved equal. Sealer shall conform to the requirements Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Section 1079 DETECTOR LOOP.
- 800947-3.14 PROTECTIVE ELECTRICAL GROUND. Continuous fence shall be grounded at intervals not exceeding 500 ft. There shall be a ground within 100 ft of gates in each section of the fence adjacent to the gate. Fence under a power line shall be grounded by three grounds; one directly under the crossing and one on each side 25 ft to 50 ft away. A single ground shall be located directly under each telephone wire or cable crossing. The counterpoise ground shall be used only where it is impossible to drive a ground rod. The ground wire shall be connected to the fabric and tension wire with UL listed grounding connectors of cast bronze body and bronze or stainless steel bolts and washers. Grounding connectors shall be sized and suitable for the respective application. Connections to ground rods shall be with UL listed grounding connectors suitable for direct burial in earth or exothermic weld type connectors, Cadweld by Erico Products, Inc., Solon, Ohio, (Phone 1-800-248-9353), Thermoweld by Continental Industries, Inc., Tulsa, Oklahoma (Phone 918-663-1440), Ultraweld by Harger, Grayslake, Illinois (Phone 1-800-842-7437), or approved equal. Exothermic weld connections shall be installed in conformance with the respective manufacturer's directions using molds suitable for each respective application. Ground rods shall be 5/8-in. diameter by 8 ft long (minimum), UL-listed, Copper-clad. The ground wire used to bond the fence fabric and tension wire to the ground rod shall be #6 AWG bare solid Copper conductor.
- 800947-3.15 <u>ELECTRICAL GENERAL</u>. 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 NFPA 70-National Electrical Code (NEC) 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 will not be permitted.
 - A. The Contractor should examine the proposed site to evaluate the complexity of the work.

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- B. Contractor shall keep a copy of the latest NEC in force on site at all times during construction for use as a reference.
- C. Contractor shall keep a copy of the Plans, Special Provision Specifications including any addenda, and copies of any change orders on site at all times during construction.
- D. Contractor shall coordinate work and any power outages to buildings located on the airport with the Airport Director/Manager and/or the respective building personnel. Any shutdown of existing systems shall be scheduled with and approved by the Airport Manager prior to shutdown. Once shut down, the circuits shall be labeled as such to prevent accidental energizing of the respective circuits. All personnel shall follow OSHA 29 CFR Part 1910 Occupational Safety and Health Standards for electrical safety and lockout/tagout procedures, including, but not limited to, 29 CFR Section 1910.147 The Control of Hazardous Energy (lockout/tagout).
- E. Contractor shall comply with the requirements of FAA AC No. 150/5370-2E (or most current issue) "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION".
- F. Contractor shall comply with the applicable requirements of NFPA 70E Standard for Electrical Safety in the Workplace.
- G. Contractor shall confirm that the power to each gate operator matches the nameplate rating for the respective gate operator.
- H. 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).
- I. The Contractor shall be responsible for furnishing and setting all anchor bolts required to install his equipment.
- J. Where concrete mounting pads are required for equipment mounting, the Contractor shall furnish all concreting and form work necessary to complete the installation.
- K. Where electrical equipment is located on damp or wet walls or locations as directed, it shall be "stand off" mounted ½ inch 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.
- NSTALLATION OF SAFETY SWITCHES. All safety switches shall be provided with appropriate mounting hardware and strut support. Strut support shall be stainless steel strut support, Unistrut P-1000-SS, or approved equal. 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. Inspect all safety switches for proper operation, tight and secure connections, and correctness. All safety switch enclosures shall be bonded to 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.

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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.

- 800947-3.17 CONDUIT INSTALLATION. Cable in unit duct and/or conduit for the gate operator power shall be direct bury 24 inches minimum below finished grade. Cable in conduit below roadways and walks shall be minimum 24 inches 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.
 - A. All conduit(s) under walks shall be pushed.
 - B. 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.
 - C. 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.
 - D. 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.
 - E. Make all joints in steel underground conduit watertight 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.
 - F. 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.
 - G. 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.
 - H. Provide NEMA four hubs for all conduit entries into enclosures rated NEMA 4, 4X to maintain NEMA 4, 4X rating.
 - I. Do not run conduit below or adjacent to water piping.
 - J. Run exposed conduits parallel with walls and at right angles to the building lines, not diagonally. Make bends and turns will pull boxes or cadmium plated or hot dipped galvanized malleable iron fittings and covers.
- 800947-3.18 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.

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- 800947-3.19 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, conductive grease and lubricant suitable for electrical connections and grounding connections, before joining: Sanchem Inc. "NO OX ID "A Special" compound; Burndy Penetrox E, or approved equal.
 - C. Metallic surfaces to be joined shall be prepared by the removal of all non conductive material, per 2011 National Electrical Code Article 250.12.
 - D. Raceway fittings shall be made up tight to provide a permanent low impedance path for all circuits. Metal conduit terminations in enclosures shall be bonded to the enclosure with UL listed fittings suitable for grounding. Provide grounding bushings with bonding jumpers (from bushing to the respective ground connection/enclosure frame) for all metal conduits entering service equipment (meter bases, CT cabinet, service disconnects, service panelboards, main service breaker enclosure, etc.). Provide grounding bushings with bonding jumpers for all metal conduits entering an enclosure through concentric or eccentric knockouts that are punched or otherwise formed so as to impair the electrical connection to ground. Standard locknuts or bushings shall not be the sole means for bonding where a conduit enters an enclosure through a concentric or eccentric knockout.
 - 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 inch diameter, 10 feet long, UL listed, copper clad with 10 mil minimum copper coating. Ground rods for fence grounding shall be 5/8 inch diameter, 8 feet long, UL listed, copper clad with 10 mil minimum copper coating. Top of ground rods shall be a minimum of 30 inches 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); Thermoweld by Continental Industries, Inc., Tulsa, Oklahoma (Phone 918-663-1440); Ultraweld by Harger, Grayslake, Illinois (Phone 1-800-842-7437), or; approved equal. 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, Penn-Union, or approved equal. Tighten connections to comply with tightening torques in UL Standard 486A to assure permanent and effective grounding.

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- 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 2011 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.
- 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 2011 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 2011 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 2011 NEC 250.102.
- K. Install grounding electrode conductors and/or individual ground conductors in Schedule 40 or Schedule 80 PVC conduit. Where grounding electrode conductors or individual ground conductors are run in PVC conduit, Do Not completely encircle conduit with ferrous and/or magnetic materials. Use non metallic reinforced fiberglass strut support. Where metal conduit clamps are installed, use nylon bolts, nuts, washers and spacers to interrupt a complete metallic path from encircling the conduit.
- 800947-3.20 <u>TESTING</u>. 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. Contractor shall engage a factory authorized service technician to provide start-up, testing, adjustments, calibration and checkout for each electrically operated gate. This shall be scheduled while the Contractor is still on-site and be coordinated such that all of the gates for the project are commissioned on a single site visit to reduce costs. All tests shall be conducted in the presence of the Owner and the Resident Engineer.

The Contractor shall test and demonstrate to the satisfaction of the Resident 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.

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- F. Verify ground rod is installed at electric gate operator (per manufacturer requirements).
- G. Verify metal conduits terminated at gate operator are bonded to the gate operator housing.
- H. Verify ground rods are installed at each side of the gate.
- I. Verify card reader/keypad access control unit includes a ground wire to it. Record size and type.
- J. Verify Operation and Maintenance Manuals were furnished with equipment.
- K. Verify proper installation of the chain drive and hardware interface between the gate and the gate operator.
- L. Verify the gate is level.
- M. Release the gate operator braking mechanism and open and close the gate to confirm smooth and free operation over the full length of travel.
- N. Verify the proximity sensor and the trip plate are installed properly and do not have an interference.
- O. Verify the gate operator beeper works properly and activates at upon gate operation.
- P. 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 keypad access control unit signal input.
- Q. Test gate and verify proper operation.
- R. Check operation of safety loops. Gate shall remain open if vehicle stays on the exit loop.
- S. Check operation of free exit.
- T. Test remote transmitters and receiver and confirm proper operation.
- U. Check to see if gate stops if an obstruction is detected.
- V. Train the designated owner's personnel on procedures for operation, starting, stopping, troubleshooting, servicing, and maintaining equipment.
- W. All tests shall be recorded, stating the test results, date, and field conditions.

METHOD OF MEASUREMENT

800947-4.1 The quantity of this item to be furnished and installed shall be measured for payment as a unit price per each for the electric sliding gate and associated control system and shall include all materials, equipment, cable, conduit, grounding, labor, coordination, tools, connections, and other incidentals as required to perform the specified work and testing the units for satisfactory operation. The quantity of power cable in conduit and duct from the respective power source to the gate operator will be considered incidental to the installation of the respective electric slide gate and no additional compensation will be allowed.

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BASIS OF PAYMENT

800947-5.1 Payment will be made at the Contract unit price per each for the electric sliding 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 AS800947 28' Electrical Sliding Gate GALV - per each. Item AT800963 28' Electrical Sliding Gate VINYL - per each.

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ITEM 800948

MANUAL SLIDING GATE

DESCRIPTION

- 800948-1.1 This item shall consist of furnishing and installing manual sliding gates in accordance with the Standard Specifications, the Construction Plans and these Special Provisions. This item will include all labor, equipment, and materials required to put the proposed manual sliding gates in proper working order.
 - A. Item AR800948, 28' Manual Sliding Gate-GALV shall be a manual sliding gate 8 feet in height with a clear opening of 28 feet, furnished with chain link fence fabric meeting requirements of Item 162, galvanized/coated finish.

800948-1.2 REFERENCES

- A. ASTM F 1184-05 Standard Specification for Industrial and Commercial Horizontal Slide Gates.
- B. ASTM F1043 Standard Specification for Strength and Protective Coatings on Steel Industrial Chain Link Fence Framework.
- 800948-1.3 SHOP DRAWINGS. The Contractor shall furnish shop drawings for approval before ordering material and equipment for the following system components. Shop drawings are required for each 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 gate shop drawing prior to submitting the shop drawing for review. Shop drawings shall be clear and legible. Copies that are illegible will be rejected. Separate shop drawings shall be prepared for each type and size of gate. Contractor shall submit sufficient copies of shop drawings to meet the needs of his personnel, sub-contractor personnel, and equipment suppliers plus four (4) copies to be retained by the Project Engineer. Shop drawings shall include the following information:
 - A. Certification of compliance with the AIP (Airport Improvement Program) Buy American Act Title 49 USC Section 50101 for all materials and equipment. Do not submit ARRA (American Recovery and Reinvestment Act) certification as a substitute for certification of compliance with the AIP Buy American Preferences. Shop drawings submitted without certification of compliance with the Airport Improvement Program Buy American Preferences or without certification of manufacture in the United States of America in accordance with the AIP Buy American Requirements will be rejected. See the FAA website at: http://www.faa.gov/airports/aip/buy_american/ for more information on the Airport Improvement Program Buy American Preferences requirements.
 - B. In order to expedite the shop drawing review, inspection and/or testing of materials and equipment, the Contractor shall furnish complete statements to the Project Engineer as to the origin and manufacturer of all materials and equipment to be used in the work. Such statements shall be furnished promptly after execution of the Contract but, in all cases, prior to delivery of such materials and equipment.
 - C. Certification that all steel used with the gate installation is manufactured from 100 percent domestic steel.
 - D. Cut sheets and specifications for each type and size of sliding gate.

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E. 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 installation. Include certification that ground rods are made with 100 percent domestic steel.

EQUIPMENT AND MATERIALS

- 800948-2.1 GENERAL. All equipment and materials used in the construction shall be in accordance with the Specifications and detailed instructions as furnished by the manufacturer.
- 28' SLIDING GATES. Gate shall be suitable for the respective application and in accordance with the respective gate manufacturer's recommendation for the respective application. Gate construction shall comply with ASTM F 1184-05 for Type II Cantilever Slide, Class 2 steel frame and aluminum frame gates using internal rollers. Metal pipe and tubing used in the gate construction shall be aluminum complying with ASTM F1043 for materials and protective coatings. 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 feet in height and have an enclosed roller assembly to be protected from freezing rain and snow. Gate shall have double tracks supported by gate posts on each side of the gate (interior and exterior). The gate frame shall be supported from the tracks by four, self-aligning, 4-wheeled, sealed lubricant, ball-bearing truck assemblies. All gates shall be adaptable to accommodate interface to an electric gate operator. 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 feet but not over 30 feet. Gate posts shall be minimum 4-inch O. D. (round) Schedule 40 weighing 9.11 lbs/foot.
 - A. For Item AR800948, each gate shall be covered with chain link fence fabric; 2-inch 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/coated. Gate shall be a Fortress Structural Slide Gate as manufactured by Tymetal Corporation, Schuylerville, NY, Phone: 1-800-328-4283 or 518-692-9930, Fax: 518-692-9404, or approved equal.
- 800948-2.3 GROUND RODS. Ground rods for fence grounding shall be 5/8-inch diameter by 8-foot long, UL-listed, copper clad with 10-mil minimum copper coating. Steel used to manufacture ground rods shall be 100 percent domestic steel.
- 800948-2.4 SIGNAGE. The gate shall include signage as detailed on the Plans.
- <u>800948-2.5</u> <u>CONCRETE</u>. Concrete for use with the gate installation shall conform to Item 610 Portland Cement Concrete of the Standard Specifications.
- 800948-2.6 SECURITY CHAIN AND PADLOCK. The Contractor shall furnish a new security chain and padlock for slide gate (non-electric). Chain shall be 5/16-inch stainless steel cut into a three foot length. Padlock shall be solid brass body, corrosion resistant and ideal for harsh environments. Padlock dimensions shall be 2-inch shackle, 2-inch wide and 3/4-inch thick. Padlocks shall be keyed to match existing Airport padlock system. The Contractor shall coordinate the furnishing of these padlocks with the Airport Owner.

CONSTRUCTION METHODS

<u>800948-3.1</u> <u>AIRPORT SECURITY</u>. Security at the Airport shall be maintained at all times and coordinated with the Airport Director.

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- 800948-3.2 MATERIALS FURNISHED BY THE CONTRACTOR. All material 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 material not otherwise specifically indicated shall be furnished by the Contractor. All material furnished by the Contractor shall be new.
- 800948-3.3 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.
- 800948-3.4 LOCATE EXISTING UTILITIES. The location, size, and type of material of existing underground and/or aboveground 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 Owner's Representative and/or the Resident Engineer shall also be immediately notified. Any damage to such mains and services shall be restored to service at once and paid for by the Contractor at no additional cost to the Contract. All utility cables and lines shall be located by the respective utility. Contact JULIE (Joint Utility Location Information for Excavators) for utility information, phone: 1-800-892-0123. Contact the FAA (Federal Aviation Administration) for assistance in locating FAA cables and utilities. Location of FAA power, control, and communication cables shall be coordinated with and/or located by the FAA. Also, contact Airport Director/Manager and Airport Personnel for assistance in locating underground Airport cables and/or utilities. Also coordinate work with all aboveground utilities.

- 800948-3.5 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. Any installations which void the UL listing, ETL listing, (or other third party listing), and/or the manufacturer's warranty of a device will not be permitted.
- 800948-3.6 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.
- 800948-3.7 <u>CLEAN UP</u>. 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.

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- <u>800948-3.8</u> <u>WARRANTY PERIOD</u>. Neither the final certificate of payment nor any provision in the Contract, not partial or entire use of the improvement 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 there from 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 warranty applies to equipment furnished, as well as to all other work and materials.
- <u>800948-3.9</u> <u>SLIDING GATE CONSTRUCTION</u>. The Contractor shall install the sliding gate as detailed on the Construction Plans and in accordance with the manufacturer's directions.
- 800948-3.10 PROTECTIVE ELECTRICAL GROUND. Continuous fence shall be grounded at intervals not exceeding 500 feet. There shall be a ground within 100 feet of gates in each section of the fence adjacent to the gate. Fence under a power line shall be grounded by three grounds; one directly under the crossing and one on each side 25 feet to 50 feet away. A single ground shall be located directly under each telephone wire or cable crossing. The counterpoise ground shall be used only where it is impossible to drive a ground rod. The ground wire shall be connected to the fencing (post, fabric, and tension wire) with UL listed grounding connectors of cast bronze body and bronze or stainless steel bolts and washers. Grounding connectors shall be sized and suitable for the respective application. Connections to ground rods shall be with UL listed grounding connectors suitable for direct burial in earth or exothermic weld type connectors: Cadweld by Erico Products, Inc., Solon, Ohio, (Phone 1-800-248-9353); Thermoweld by Continental Industries, Inc., Tulsa, Oklahoma (Phone 918-663-1440); Ultraweld by Harger, Grayslake, Illinois (Phone 1-800-842-7437), or: approved equal. Exothermic weld connections shall be installed in conformance with the respective manufacturer's directions using molds suitable for each respective application. Ground rods shall be 5/8-inch diameter by 8 feet long (minimum), UL-listed, copper-clad. The ground wire used to bond the fencing to the ground rod shall be #6 AWG bare solid copper conductor.

METHOD OF MEASUREMENT

800948-4.1 The quantity of this item to be furnished and installed shall be measured for payment as a unit price per each for the respective sliding gate and shall include all materials, equipment, grounding, labor, coordination, tools, connections, and other incidentals as required to perform the specified work and testing the units for satisfactory operation.

BASIS OF PAYMENT

800948-5.1 Payment will be made at the Contract unit price per each for the respective sliding 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 AR800948 28' Manual Sliding Gate GALV - per each.

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DIVISION IV

DRAINAGE

ITEM 701

PIPE FOR STORM SEWERS AND CULVERTS

Revise Item 701 of the Standard Specifications as follows:

DESCRIPTION

701-1.1 Add the following:

"This item shall include the provision of 12-inch diameter, dual wall (smooth interior and annular exterior corrugations), watertight pipe, with wire rodent screens and concrete collars as detailed in the Plans and as specified herein."

MATERIALS

701-2.1 GENERAL. Add the following to the materials reference listing:

"Watertight HDPE Pipe AASHTO M294, Type S or ASTM F2306"

<u>701-2.3</u> <u>CONCRETE</u>. Add the following:

"Cast-in-place concrete used to construct concrete collars at both pipe ends shall conform to Item 610."

Add:

<u>WATERTIGHT HDPE DRAINAGE PIPE</u>. Pipe used in furnishing this item shall be 12-inch diameter, double wall meeting AASHTO M294, Type S or ASTM F2306, watertight. Joints shall meet the requirement of AASHTO M252, AASHTO M294, or ASTM F2306. Joints shall be reinforced with a bell tolerance device installed by the pipe manufacturer. Bell and spigot fittings shall utilize a spun-on or welded bell and valley or saddle gasket meeting the watertight joint performance requirements of AASHTO M252, AASHTO M294, or ASTM F2306. To assure water tightness, field performance verification shall be accomplished by testing in accordance with ASTM F2487.

Add:

<u>701-2.11</u> <u>WELDED WIRE FABRIC</u>. Welded wire fabric shall conform to the requirements of AASHTO M 55, ASTM A 82, or ASTM A 185, plain type, flat stock only.

METHOD OF MEASUREMENT

701-4.1 Delete this Section.

701-4.2 Delete this Section.

701-4.3 Delete this Section.

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Add:

The quantity of 12-inch HDPE drainage pipe with concrete collars and rodent shields will not be measured separately by item or length, but shall be measured as a unit per each, installed to the dimensions and with the accessories shown and detailed in the Plans, and to the satisfaction of the Resident Engineer.

BASIS OF PAYMENT

<u>701-5.1</u> Delete the first paragraph and replace with the following:

"The Contract unit price per each for 12-inch HDPE Drainage Pipe with Concrete Collars shall be full payment for furnishing and installing all materials, and for all excavation, earth backfill, granular cradle, select granular backfill placement, compaction, concrete collars, wire rodent shields, and surface grading; and for all labor, equipment and tools necessary to complete this item to the satisfaction of the Engineer."

Add the following:

"Payment will be made under:

"Item AR800961 12" HDPE Drain. Pipe w/ Conc. Coll - per each."

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DIVISION V

TURFING

ITEM 901

SEEDING

Revise Item 901 of the Standard Specifications as follows:

MATERIALS

<u>901-2.1</u> <u>SEED</u>. Add the following after the seed mixture table:

"Seed for disturbed areas located within the wetland areas designated on the Plans shall be IDOT Seeding Mixture 4B, as specified in Article 250.07 in Standard Specifications for Road and Bridge Construction (IDOT Specifications), adopted January 1, 2012."

Delete the fourth paragraph.

Add the following:

"Planting times shall be between August 20 and October 20. If fall planting is not possible, the mixture may be planted between March 15 and May 15. Seeding between June 1 and August 15 will not be permitted. If planted in the spring, the Contractor shall furnish additional measures beyond that otherwise required in these Special Provisions to prevent weed growth as recommended by a registered nurseryman at no additional cost to the Contract.

"If planted in the spring, the Contractor shall furnish additional measures beyond that otherwise required in these Special Provisions to prevent weed growth as recommended by a registered nurseryman at no additional cost to the Contract.

"Seed mixtures shall contain the proportion of seed of individual species indicated in the planting design. Changes in seed mixtures must be approved by the Project Engineer.

"A sample of selected seed species shall be made available on request to the Resident Engineer for viability testing by the tetrazolium trichloride method, not less than 21 calendar days prior to planting.

"All seeds shall be guaranteed by the Contractor to be true to name. All seeds shall have the proper preplanting treatments, including stratification, scarification and/or inoculation to promote good germination and growth, prior to any seeding.

"All seedings shall be planted at the specified rates, utilizing the specified species unless otherwise authorized by the Project Engineer."

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901-2.2 <u>LIME</u>. Replace this Section with the following:

"901-2.2 SOIL TESTING AND MODIFICATION. The Contractor shall perform a soil analysis of all on-site and off-site topsoil types used in the seedbed. The pH of the topsoil shall be between 5.5 pH and 6.5 pH. Should the pH be less than 5.5, the Contractor shall add agricultural lime of a type and source approved by IDOT, at application rates appropriate to achieve the required pH. Should the pH be greater than 6.5, the Contractor shall add potash of a type and source approved by IDOT, at rates appropriate to achieve the required pH. The Contractor shall furnish the test reports and proposed soil modifications for approval to the Engineer prior to any soil modification. All soil testing and modification shall be incidental to seeding or cover."

901-2.3 FERTILIZER. Delete this Section.

CONSTRUCTION METHODS

<u>ADVANCE PREPARATION AND CLEANUP.</u> Add the following as the first paragraph:

"ALL perennial weeds and spontaneous vegetation shall be eliminated within the seedbed prior to seeding, using mowing/raking and herbicide. Herbicides used for weed removal shall be as recommended by the seed producer. Based upon actual conditions, it may be necessary for this weed removal to begin up to eight weeks before planting. When all vegetation is dead, the soil shall be tilled and otherwise prepared for planting as specified herein. Weed removal prior to acceptance of the lawn shall be incidental to the Contract."

Add the following sentence to the second paragraph:

"Soil shall be prepared to have clods no more than 1½ inches on any side to ensure adequate seed-soil contact."

Add the following paragraphs:

"Seed shall not be placed on ground that is frozen or in any way in a condition that is detrimental to the seed.

"Areas shall be de-watered if necessary to accomplish any specified plantings. The method of de-watering shall be approved by the Resident Engineer.

"Final grading and site preparation must be inspected and approved by the Resident Engineer prior to any planting.

"Seedbed preparation shall commence as soon as practicable prior to planting. After preparation, these areas shall be protected from erosion.

"The proposed seeding method shall be stated by the Contractor. The seeding method shall result in a uniform distribution and complete coverage of the entire area to be seeded. If seed drilling is proposed, the seeder shall have an adjustable gate opening provided uniform flow and shall drop the seed directly into place on the prepared seed bed. If the broadcast method is used, within eight hours of seeding, all seeded areas should be rolled at right angles to the slope with a roller, cultipacker or hand tamped to compact the seedbed. Any areas broadcasted shall be sufficiently rolled or tamped to assist proper germination. All seeding equipment shall be calibrated to ensure the proper flow of seeds to deliver the specified quantities. The Contractor shall use only seeding equipment that is designed to plant grasses.

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"All seeding shall be provided within the planting seasons stated in Section 901-2.1, unless season mixes are prior approved by the Project Engineer and conditions are acceptable for seeding as noted in Section 901-2.1.

"Measures to protect planted materials from grazing damage by wildlife shall be recommended and provided by the Contractor.

"Installation and maintenance of erosion control measures pertinent to seeding shall be the responsibility of the Contractor. Erosion control measures which may be damaged and/or removed by the Contractor during planting and related work shall be replaced by the Contractor.

"If on-site conditions change or are otherwise altered due to circumstances beyond the control of the Contractor, the Owner, and/or the Project Engineer, such that the Specifications and/or drawings are no longer valid, the Contractor shall notify the Resident Engineer so that remedial measures may be undertaken."

901-3.4 MAINTENANCE OF SEEDED AREAS. Add the following:

"It is essential that the seeds planted herein are watered for one to two months after planting to increase germination rates and seedling survival. The Contractor shall regularly water the seedlings to promote proper germination. It shall be the Contractor's responsibility to regularly inspect the growth and furnish watering, when required. All inspection and watering shall be incidental to seeding."

BASIS OF PAYMENT

901-5.1 Add the following:

"Water utilized for bed preparation and maintenance of the seeded or covered areas shall be incidental to the Contract prices for seeding.

"Payment will be made under:

"Item AR901510 Seeding - per acre."

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ITEM 905

TOPSOILING

Revise Item 905 of the Standard Specifications as follows:

DESCRIPTION

905-1.1 Add the following:

"Topsoil shall be from on-site from other work included in this contract. No separate payment for stockpiling or excavation from the stockpile shall be made. Costs associated with this work shall be incidental to item 152."

MATERIALS

905-2.1 TOPSOIL. Modify the allowed pH to read 5.5 pH to 6.5 pH.

Replace the last sentence of the first paragraph with the following:

"At least 90 percent of the material shall pass the No. 10 sieve."

Add the following as the last paragraph:

"Testing shall be performed by the Contractor for the on-site material. Soils testing and modification shall be furnished in accordance with Item 901, as modified by these Special Provisions."

CONSTRUCTION REQUIREMENTS

905-3.4 PLACING TOPSOIL. Delete the first sentence of the first paragraph and replace with the following sentence:

"The topsoil shall be evenly spread on the prepared areas to receive seeding to a uniform depth of four (4) inches after compaction."

METHOD OF MEASUREMENT

905-4.2 Delete this Section.

BASIS OF PAYMENT

905-5.1 Replace this paragraph with the following:

"The quantity, determined as provided in Section 905-4.1, will be paid for at the Contract unit price per cubic yard for the pay item listed below (On Site), which price and payment shall be full compensation for furnishing and placing all material and for all labor, equipment, tools, and incidentals necessary to complete the work prescribed in this item, to the satisfaction of the Engineer.

"Payment will be made under:

"Item AR905510 Topsoiling (From On Site) - per cubic yard."

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ITEM 908

MULCHING

Revise Item 908 of the Standard Specifications as follows:

DESCRIPTION

908-1.1 Add the following:

"Material used for mulching shall be **Heavy Duty** hydraulic mulch, applied and secured as otherwise provided in the Standard Specifications."

MATERIALS

908-2.1 <u>MULCH MATERIAL</u>. Delete the first paragraph and replace with the following:

""Material used for mulching shall be Heavy Duty hydraulic mulch, as specified herein."

Delete subparagraphs A, B and C.

CONSTRUCTION METHODS

908-3.1 MULCHING. Add the following:

"Hydraulic mulch shall be applied as specified herein for Heavy Duty applications."

BASIS OF PAYMENT

908-5.1 Add the following:

"Payment will be made under:

"Item AR908510 Mulching - per acre."

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DIVISION VI

LIGHTING INSTALLATION

ITEM 108

INSTALLATION OF UNDERGROUND CABLE FOR AIRPORTS

Revise Item 108 of the Standard Specifications as follows:

<u>108-1.1</u> <u>DESCRIPTION</u>. Add the following:

"This Item of work shall consist of the installation (plowing, trenching, directional-boring, or installing in ducts or raceways) of cable for obstruction lighting circuits on the airfield 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.

"In areas where there is a congestion of buried cable or where the proposed cable crosses an existing cable, the Contractor will be required to trench the proposed cable into place. In all other areas, the Contractor has the option to either trench or plow the proposed cable in unit duct into place.

"When crossing existing circuits, the Contractor will be required to hand dig the trenches for the proposed cable.

"The installation of cable and/or cable in unit duct associated with each electric slide gate installation will be considered incidental to the contract unit price of the respective electric gate installation and no additional compensation will be allowed."

Add:

108-1.2 REFERENCES.

- A. ASTM Specification B3 Standard Specification for Soft or Annealed Copper Wire.
- B. ASTM Specification B8 Standard Specification for Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft.
- C. FAA Advisory Circular 150/5345 7E, (or latest edition) "SPECIFICATIONS FOR L 824 UNDERGROUND ELECTRICAL CABLE FOR AIRPORT LIGHTING CIRCUITS.
- D. FAA AC No. 150/5345-53 "AIRPORT LIGHTING EQUIPMENT CERTIFICATION PROGRAM" (most current issue) and AC150/5345-53D, AIRPORT LIGHTING EQUIPMENT CERTIFICATION PROGRAM Appendix 3 Addendum.
- E. FAA AC No. 150/5370-2F (or most current issue) "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION.
- F. Federal Specification A-A-59544 Cable and Wire, Electrical (Power, Fixed Installation).
- G. NFPA 70 National Electrical Code (most current issue in force).
- H. NFPA 70E Standard for Electrical Safety in the Workplace.

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- OSHA 29 CFR Part 1910 Occupational Safety and Health Standards for electrical safety and lockout/tagout procedures.
- J. UL Standard 44 Thermoset-Insulated Wires and Cables.
- K. UL Standard 83 Thermoplastic-Insulated Wires and Cables.
- L. UL Standard 854 Service Entrance Cables.

Add:

- SHOP DRAWINGS. The Contractor shall furnish shop drawings for approval before ordering equipment and/or materials. Shop drawings are required for each wire, conductor, and/or cable type to be used on the project. 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 shop drawing prior to submitting the shop drawing for review. Shop drawings 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, sub-contractor personnel, and equipment suppliers plus four (4) copies to be retained by the Project Engineer. Shop drawings shall include the following information:
 - A. Certification of compliance with the AIP (Airport Improvement Program) Buy American Act Title 49 USC Section 50101 for all materials and equipment. Do not submit ARRA (American Recovery and Reinvestment Act) certification as a substitute for certification of compliance with the AIP Buy American Preferences. Shop drawings submitted without certification of compliance with the Airport Improvement Program Buy American Preferences or without certification of manufacture in the United States of America in accordance with the AIP Buy American Requirements will be rejected. See the FAA website at: http://www.faa.gov/airports/aip/buy_american/ for more information on the Airport Improvement Program Buy American Preferences requirements.
 - B. In order to expedite the shop drawing review, inspection and/or testing of materials, the Contractor shall furnish complete statements to the Project Engineer as to the origin, composition, and manufacturer of all material to be used in the work. Such statements shall be furnished promptly after execution of the contract but, in all cases, prior to delivery of such materials.
 - C. Indicate the pay item number for each respective cable, cable in unit duct, cable in duct, and/or cable in conduit.
 - D. Shop drawings shall include wire/conductor/cable cut sheets with type, size, specifications, ETL or UL listing, manufacturer, and catalog or part number.
 - E. Shop drawings for cable in unit duct items shall include cut sheets with type, size, specifications, ETL or UL listing, manufacturer, and catalog or part number.
 - F. Where cable is required to have colored coded insulation, provide information on the color coding for the respective conductors.

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EQUIPMENT AND MATERIALS

108-2.1 GENERAL. Add the following.

"All cable shall be FAA approved or UL-listed as suitable for installed application. Cable furnished on this project shall comply with the requirements of the "AIP Buy American Preferences". All conductors shall be copper."

108-2.2 CABLE. Revise this Section to read as follows:

"<u>Power Cable (600V and Below)</u>. - All power wiring, 600V and below, shall be the type, size, and number of conductors as noted on the Plans.

"THWN Wire. - Cable shall comply with Underwriters' Laboratories Standard UL-83 and Federal Specification A-A-59544. Conductor shall be soft annealed, uncoated Copper and shall comply with ASTM B3 and B8. Insulation shall be rated for 600-Volts. 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. Conductor insulation shall be color coded as noted below.

"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 600-Volt. 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. Conductor insulation shall be color coded as noted below.

"Item AR108051, Power Cable in UD. - Shall consist of 3-1/C #10 AWG, XLP-USE, 600-Volt cable in unit duct (0.75 in. or sized larger, as required per NEC). Conductor insulation for 120 VAC, single phase, 2-wire with ground circuits shall be color-coded: Phase A - Black, Neutral-White, and Ground - Green.

"XHHW Wire. - Cable shall comply with UL Standard 44, ICEA S-95-658/NEMA WC70, and Federal Specification A-A-59544. Conductors shall be Class B-stranded, annealed, uncoated Copper per UL Standard 44. Insulation shall be rated for 600-Volts. Insulation shall be cross-linked polyethylene complying with the physical and electrical requirements of UL Standard 44 for Type XHHW-2. Cable shall be UL-listed and marked XHHW-2. XHHW wire may be used in place of THWN wire for all applications. Conductor insulation shall be color coded as noted below.

"Control Cable for Gate Operators. - Control wiring for the gate operator system shall be as detailed on the Plans, as specified herein, and as recommended by the respective gate operator manufacturer's representative and shall conform to the applicable sections of National Electrical Code. Contractor shall furnish and install the type, size, number, and quantity of control wiring to provide a complete and operational system for each respective gate operator.

"Color-coding. - Color-code phase and neutral conductor insulation for No. 6 AWG or smaller. Provide colored marking tape or colored insulation for phase and neutral conductors for No. 4 AWG and larger. Insulated ground conductors shall have green colored insulation for all conductor sizes (AWG and/or KCMIL) to comply with NEC 250.119. Neutral conductors shall have white colored insulation for No. 6 AWG and smaller to meet the requirements of NEC 200.6. Standard colors for power wiring and branch circuits for 120/240 VAC, 1-Phase, 3-Wire system shall be Phase A - Black, Phase B - Red, Neutral - White, and Ground - Green. Standard colors for power wiring and branch circuits for 208/120 VAC, 3-Phase, 4-Wire system shall be Phase A - Black, Phase B - Red, Phase C - Blue, Neutral - White, and Ground - Green."

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108-2.3 BARE COPPER WIRE (COUNTERPOISE). Revise this section to read:

"Bare copper counterpoise wire will not be required on this project under Item 108."

108-2.4 CABLE CONNECTIONS. Add the following to this Section:

"The Contractor shall use a cable stripper/penciller whenever cable connections are made.

"All breaks in the unit duct shall be sealed by shrink kits.

"All below grade splices shall be installed in splice cans, handholes, or manholes. Splice cans shall be L-867, Class IA, Size B (12 in. diameter), 24 in. deep, with 3/8 in. thick, galvanized steel cover and stainless steel bolts. 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. The furnishing and installing of splice cans for new homerun cables shall be incidental to the respective cable pay item, and no additional compensation will be allowed."

<u>108-2.12</u> <u>LINE MARKING TAPE</u>. Add the following:

"Line marking tape shall be furnished as specified."

<u>108-2.13</u> <u>UNIT DUCT</u>. Add the following:

"Standard sizes of smooth wall polyethylene duct shall conform to the dimensional requirements specified below:

Nominal Duct Size	Nominal Inside Diameter	Nominal Standard Wall	Nominal Outside Diameter *
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 REQUIREMENTS

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. All vertical lengths and other cable lengths that are specified or are required by the installation, 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/Resident Project Representative before doing so. Any additional cable needed because of such change will be at the Contractor's expense.

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"Only cable in unit duct may be plowed or directional-bored.

"The Contractor shall identify all existing underground utilities located within the area where the proposed cables are being installed, and will take all precautions to protect these utilities from damage. 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 underground utility damaged will be repaired or replaced at the Contractor's own expense. Any repairs of existing cables will be considered incidental to the contract, and no additional compensation will be allowed.

"Contractor shall coordinate work and any power outages with the Airport Director or respective Airport personnel. Any shutdown of existing systems shall be scheduled with and approved by the Airport Director prior to shutdown. Once shut down, the circuits shall be labeled as such to prevent accidental energizing of the respective circuits. All personnel shall follow U.S. Department of Labor Occupational Safety & Health Administration (OSHA) 29 CFR Part 1910 Occupational Safety and Health Standards for electrical safety and lockout/tagout procedures, including, but not limited to, 29 CFR Section 1910.147 The Control of Hazardous Energy (lockout/tagout).

"Contractor shall comply with the requirements of FAA AC No. 150/5370-2F (or most current issue) "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION".

"Contractor shall comply with the applicable requirements of NFPA 70E - Standard for Electrical Safety in the Workplace.

"All temporary installations shall comply with National Electrical Code Article 590 - "Temporary Installations". The contractor shall secure, identify, and place temporary exposed wiring in conduit, duct, or unit duct to prevent electrocution and fire ignition sources in conformance with the requirements of FAA AC 150/5370-2F, Part 218, Paragraph C.

"All cables installed by the Contractor shall be properly labeled and tagged at all points of access (handholes, manholes, terminal panels, control panels, and the respective wireway in the vault).

"All changes to the airfield lighting system shall be documented by the Contractor and provided to the Resident Engineer.

"The existing cables associated with airfield lighting and/or equipment removals, relocations, and/or cable or duct replacements shall be abandoned in place unless it conflicts with the installation of the airfield light, sign, duct, cable, handhole, manhole, site work, pavement, fencing, or other work, then it shall be disconnected, removed, and disposed of off the site at no additional cost to the Contract. Contractor may remove abandoned cables at no additional cost to the Contract and shall have the salvage rights to abandoned cables."

108-3.2 INSTALLATION IN DUCT OR CONDUIT. Add the following to this Section:

"The unit duct will be run continuous through all ducts and conduits unless noted otherwise on the Plans for a specific application.

"Where cable in unit duct enters a handhole or manhole with a continuous duct bank system to the termination point (such as from a handhole to the vault or between handholes and/or manholes), the unit duct will not be required for the respective cable.

"Homerun cables for a respective circuit that are installed in conduit or duct shall be run together in the same raceway or duct."

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- <u>108-3.3</u> <u>TRENCHING</u>. Add the following to this Section:
 - "F. Cable installed in cultivated fields shall be installed a minimum of 42 inches below grade.
 - "G. Any and all trenches and disturbed areas will be backfilled to a smooth grade to the satisfaction of the Resident Engineer. All trench settlement shall be corrected for a period of one year. In turf areas, the top 4-inches of backfill shall be topsoil. Restoration, grading, and seeding of areas disturbed during the installation of the proposed cable will be incidental to the respective 108 Pay Item."
- 108-3.4 CABLE MARKERS. Add the following as the first sentence:

"Cable, cable in duct, and cable in unit duct installed under this item shall be marked with concrete cable markers as specified in these Specifications."

<u>108-3.5</u> <u>SPLICING</u>. Add the following:

"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 splice kits on the job site at all times for emergency repairs. Cast splice kits shall be specified in paragraph (a) of Item 108-2.4. Splice cans shall be provided for existing cables cut and repaired for each splice in cables not to be abandoned. Where a splice can is not readily available at the time of the cable damage, splice markers shall be temporarily installed over each splice in cables not to be abandoned, then these splices shall later be replaced with new splices in an L-867 splice can.

"The Contractor shall use a cable stripper/penciller whenever cable connections are made."

"All splices and connections will be considered incidental to the respective cable."

108 3.6 BARE COUNTERPOISE WIRE INSTALLATION AND GROUNDING FOR LIGHTNING PROTECTION. Revise this section to read as follows:

"Bare Copper counterpoise wire will not be required on this project under Item 108."

Add:

LOCATING OF EXISTING UNDERGROUND UTILITIES AND CABLES. The location, size, and type of material of existing underground and/or aboveground 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.

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In the event an unexpected utility interference is encountered during construction, the Contractor shall immediately notify the utility company of jurisdiction. The Owner's Representative and/or the Resident Engineer/Resident Project Representative shall also be immediately notified. Any damage to such mains and services shall be restored to service at once and paid for by the Contractor at no additional cost to the Contract.

All utility cables and lines shall be located by the respective utility. Contact JULIE (Joint Utility Location Information for Excavators) for utility information, phone: 1-800-892-0123. Contact the FAA (Federal Aviation Administration) for assistance in locating FAA cables and utilities. Location of FAA power, control, and communication cables shall be coordinated with and/or located by the FAA. Also contact Airport Director/Manager and Airport Personnel for assistance in locating underground Airport cables and/or utilities. Also coordinate work with all aboveground utilities.

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

Add:

SEPARATION OF HIGH-VOLTAGE AND LOW-VOLTAGE WIRING. Low-voltage wiring shall maintain separation from high-voltage wiring. Low-voltage wiring and high-voltage wiring shall not be installed in the same raceway, duct, handhole, manhole, or junction box. Where necessary provide split flexible duct around low voltage cables located in a handhole with high voltage cables, to isolate the cables from possible contact with each other.

Add:

<u>IDENTIFICATION OF CABLES</u>. At electrical handholes and manholes, identify and label each cable originating in the vault with respect to the system or device served. Provide identification tags rated suitable for the respective locations with permanent markings.

METHOD OF MEASUREMENT

<u>108-4.1</u> Revise this section to read as follows:

"The footage of cable installed in unit duct, duct, conduit, and/or raceway to be paid for shall be the number of linear feet of cable installed in unit duct, duct, conduit, or raceway measured in place by direct measurement, completed, ready for operation and accepted as satisfactory with no allowance being made for overrun due to slack, turns, splices, etc. Measurement of vertical runs shall not be measured but included in the Contract unit price for cable in duct. The cable quantities shown in the Construction Plans are based on straight-line measurement and do not consider any vertical distances. Slack cable required to perform cable splices outside of the respective splice cans, handholes, or manholes, shall be incidental to the respective cable pay item and no additional measurement for payment will be made.

"Cable will be measured for payment from the respective obstruction light, termination or splice point in the field up to the respective power source. Vertical distances of cable and conduit will be considered incidental to the installation of the respective obstruction lighting."

108-4.2 Delete this Section.

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Add:

The quantity of power cable and/or control cable installed in conduit, duct and/or unit duct associated with the gate operator systems will not be measured for payment. This shall be incidental to the respective electric gate installation (including, but not limited to Item AS800947, 28' Electrical Sliding Gate GALV, and Item AT800963, 28' Electrical Sliding Gate VINYL).

BASIS OF PAYMENT

108-5.1 Add the following:

"Payment will be made at the contract unit price per linear foot of cable in unit duct, duct and/or conduit 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; for all splices and connections; for all plowing, trenching, directional-boring, coring of manholes or handholes, installation in ducts, raceways, conduits, splice cans, handholes, or manholes, and for all excavation and backfilling; for all site restoration (topsoiling, grading, seeding, mulching) and pavement restoration; and for all labor, equipment, tools, and incidentals necessary to complete this Item.

"Payment will be made under:

"Item AR108051 Power Cable in Unit Duct - per linear foot."

Add:

Payment for the furnishing and installation of power cable installed in conduit duct and/or unit duct for the gate operator shall be not be measured for payment and shall be incidental to the respective electric gate installation and no additional compensation will be made.

Payment for the furnishing and installation of control cable installed in conduit and/or duct for the gate operator shall be not be measured for payment and shall be incidental to the respective electric gate installation and no additional compensation will be made.

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ITEM 109

INSTALLATION OF AIRPORT TRANSFORMER VAULT AND VAULT EQUIPMENT

Revise Item 109 of the Standard Specifications as follows:

DESCRIPTION

109-1.1 Revise this Section to read as follows:

"Item AR109535 Electric Service Entrance shall consist of furnishing and installing new electric service from the respective utility transformer secondary to the respective electric utility meter base as detailed on the Plans and specified herein. This item shall include all labor, field verification of existing conditions, transportation, equipment, materials, conductors, connectors, conduits, tools, coordination, labeling, testing and all incidentals required to place the electric service into proper working order as a completed unit to the satisfaction of the Owner and Engineer, including:

- A. Field verification of existing site conditions to determine complexity of the proposed work.
- B. Coordinating all work with the Airport Manager, the designated Airport Maintenance Staff, and the Resident Engineer.
- C. Coordinating all service entrance work with the serving electric utility company and the Airport Manager. Service entrance work shall be as detailed on the Plans, per the serving electric utility requirements, and as specified herein.
- D. Furnishing shop drawings for equipment and materials.
- E. Furnishing and installing all service cable/wiring, raceways, conduits, etc. as detailed on the Plans and specified herein.
- F. Testing the new electric service system for the gate operators. Measure and record voltages at service panel."

"Item AR800969 Secondary Power Distribution shall consist of furnishing and installing an electric utility meter pedestal, service panelboard, surge protective device, support structure and associated conduits, wiring, grounding and incidentals to power the electric gate operators as detailed on the Plans and specified herein. This item shall include all labor, field verification of existing conditions, transportation, equipment, materials, conductors, connectors, conduits, raceways, junction boxes, grounding, tools, coordination, operational instructions, labeling, testing and all incidentals required to place the service and power distribution system and associated equipment into proper working order as a completed unit to the satisfaction of the Owner and Engineer, including:

- A. Field verification of existing site conditions to determine complexity of the proposed work.
- B. Coordinating all work with the Airport Manager, the designated Airport Maintenance Staff, and the Resident Engineer.
- C. Furnishing shop drawings for equipment and materials.

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- D. Furnishing and installing all power cable, wiring, raceways, conduits, fittings, grounding, and incidentals as detailed on the Plans and specified herein.
- E. Testing, adjusting, and retesting (where applicable) the new service and power distribution system for the gate operators for proper operation."

Add:

109-1.2 REFERENCES.

- A. ANSI C80.1 Rigid Steel Conduit, Zinc Coated.
- B. ANSI C80.4 Fittings Rigid Metal Conduit and EMT.
- C. ANSI Z535.4-2002 American National Standard for Product Safety Signs and Labels.
- D. ASTM Specification B3 Standard Specification for Soft or Annealed Copper Wire.
- E. ASTM Specification B8 Standard Specification for Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft.
- F. Federal Specification A-A-59544 Cable and Wire, Electrical (Power, Fixed Installation).
- G. FAA-STD-019d dated August 9, 2002, "Department of Transportation Federal Aviation Administration Standard, LIGHTNING AND SURGE PROTECTION, GROUNDING, BONDING AND SHIELDING REQUIREMENTS FOR FACILITIES AND ELECTRONIC EQUIPMENT.
- H. FAA-STD-019e, dated December 22, 2005, "Department of Transportation Federal Aviation Administration Standard, LIGHTNING AND SURGE PROTECTION, GROUNDING, BONDING AND SHIELDING REQUIREMENTS FOR FACILITIES AND ELECTRONIC EQUIPMENT.
- I. NEMA TC-2 Electrical Plastic Tubing and Conduit.
- J. NEMA TC-3 Fittings Rigid PVC Conduit and Tubing.
- K. NFPA 70 National Electrical Code (most current issue in force).
- L. NFPA 70E Standard for Electrical Safety in the Workplace.
- M. OSHA 29 CFR Part 1910 Occupational safety and Health Standards for electrical safety and lockout/tagout procedures.
- N. 2002 Electrical Code (or most current issue in force) of the City of Waukegan, Illinois.
- O. UL Standard 6 Rigid Metal Conduit.
- P. UL Standard 44 Thermoset-Insulated Wires and Cables.
- Q. UL Standard 83 Thermoplastic-Insulated Wires and Cables.
- R. UL Standard 467 Grounding and Bonding Equipment.

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- S. UL Standard 486A-486B Wire Connectors.
- T. UL Standard 514B Conduit, Tubing and Cable Fittings.
- U. UL Standard 651 Schedule 40 and 80 Rigid PVC Conduit.
- V. UL Standard 854 Service Entrance Cables.

Add:

- SHOP DRAWINGS. The Contractor shall furnish shop drawings for approval before ordering equipment and/or materials. Shop drawings are required for equipment and materials to be used on this item. 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 shop drawing prior to submitting the shop drawing for review. Shop drawings 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, sub-contractor personnel, and equipment suppliers plus four (4) copies to be retained by the Project Engineer. Shop drawings shall include the following information:
 - A. Certification of compliance with the AIP (Airport Improvement Program) Buy American Act Title 49 USC Section 50101 for all materials and equipment. Do not submit ARRA (American Recovery and Reinvestment Act) certification as a substitute for certification of compliance with the AIP Buy American Preferences. Shop drawings submitted without certification of compliance with the Airport Improvement Program Buy American Preferences or without certification of manufacture in the United States of America in accordance with the AIP Buy American Requirements will be rejected. See the FAA website at: http://www.faa.gov/airports/aip/buy_american/ for more information on the Airport Improvement Program Buy American Preferences requirements.
 - B. In order to expedite the shop drawing review, inspection and/or testing of materials and equipment, the Contractor shall furnish complete statements to the Project Engineer as to the origin and manufacturer of all materials and equipment to be used in the work. Such statements shall be furnished promptly after execution of the Contract but, in all cases, prior to delivery of such materials and equipment.
 - C. Submittals for panelboards shall include manufacturer, catalog numbers, panel schedule, voltage and amperage ratings, service entrance rating, bus material, integrated short circuit ampere rating, circuit breaker arrangement and sizes and respective enclosure.
 - D. Cut sheets with part number and specifications for the surge protective device.
 - E. Provide cut sheets for all types of conduit used with the installation (for example galvanized rigid steel conduit and Schedule 40 PVC conduits). Include certification that steel conduits are made with 100 percent domestic steel.
 - F. Provide cut sheets with manufacturer's name, catalog number, dimensions, material and UL listing for each type and size ground rod. Include certification of 100% domestic steel for ground rods.
 - G. Provide cut sheets for the service and power circuit conductors.
 - H. Concrete mix design, per Item 610.

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EQUIPMENT AND MATERIALS

<u>109-2.1</u> <u>GENERAL</u>. Add the following to this Section:

- "C. Manufacturer's certifications shall not relieve the Contractor of the Contractor's responsibility to provide materials in accordance with these specifications and acceptable to the Engineer. Materials supplied and/or installed that do not materially comply with these specifications shall be removed, when directed by the Engineer and replaced with materials which do comply with these specifications, at the sole cost of the Contractor.
- "D. All materials and equipment used to construct this item shall be submitted to the Engineer for approval prior to ordering equipment. Submittals consisting of marked catalog sheets or shop drawings shall be provided. Submittal data shall be presented in a clear, legible, precise, and thorough manner. Original catalog sheets are preferred. Photocopies are acceptable provided they are as good a quality as the original. Clearly and boldly mark each copy to identify pertinent products or models applicable to this project. Indicate all optional equipment and delete non-pertinent data. Submittals for components of electrical equipment and systems shall identify the equipment for which they apply on each submittal sheet. Markings shall be boldly and clearly made with arrows or circles (highlighting is not acceptable). Contractor is solely responsible for delays in project accruing directly or indirectly from late submissions or re-submissions or submittals.
- "E. The data submitted shall be sufficient, in the opinion of the Engineer, to determine compliance with the Plans and Specifications. The Engineer reserves the right to reject any and all equipment, materials, or procedures, which, in the Engineer's opinion, does not meet the system design and standards and codes specified herein."
- <u>109-2.4</u> <u>BRICK</u>. Delete this Section.
- 109-2.5 RIGID STEEL CONDUIT. Add the following:

"GRSC (Galvanized Rigid Steel Conduit) shall be heavy wall, hot-dipped, galvanized steel pipe bearing the UL label and conforming to UL-6 and ANSI Specification C80.1. Couplings, connectors, and fittings for rigid steel conduit shall be threaded, galvanized steel, or galvanized malleable iron specifically designed and manufactured for the purpose. Fittings shall conform to ANSI C80.4 and UL-514B. Set screw type fittings are not acceptable. Galvanized rigid steel conduit shall be produced from 100 percent domestic steel."

- <u>109-2.6</u> <u>LIGHTING</u>. Delete this Section.
- 109-2.10 HIGH-VOLTAGE BUS. Delete this Section.
- 109-2.11 BUS CONNECTORS. Delete this Section.
- 109-2.12 BUS SUPPORTS. Delete this Section.
- 109-2.13 GROUND BUS. Delete this Section.
- 109-2.15 GROUND RODS. Revise this Section to read as follows:

"Ground rods shall be 3/4-inch diameter, 10 feet long, UL-listed, copper-clad with 10-mil. minimum copper coating. Steel used to manufacture ground rods shall be 100 percent domestic steel."

109-2.16 POTHEADS. Delete this Section.

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<u>109-2.17</u> <u>PREFABRICATED METAL HOUSING</u>. Delete this Section.

<u>109-2.19</u> <u>OTHER ELECTRICAL EQUIPMENT</u>. Add the following:

"Switches, cutouts, relays, lighting contactors, terminal blocks, circuit breakers, and all other regularly used commercial items of electrical equipment not covered by FAA equipment specifications shall conform to the applicable rulings and standards of the institute of Electrical and Electronic Engineers or the National Electrical Manufacturer's Association. When specified, test reports from a testing laboratory indicating that the equipment meets the specifications shall be supplied. In all cases, equipment shall be new and a first-grade product. This equipment shall be supplied in the quantities required for the specific project and shall incorporate the electrical and mechanical characteristics specified in the Plans or in the proposal. Contractor shall confirm quantity for all electrical equipment with the Plans. Proposed electrical equipment for this project shall be as follows:

- A. <u>Electric Utility Meter Base</u>. Electric utility meter base or pedestal shall conform to the requirements of the service electric utility company.
- B. <u>Circuit Breaker Panelboard</u>. Circuit breaker panelboard shall be rated 480/277 VAC, 3 phase, 4-wire and shall have copper bus structure braced for 35,000 RMS Amperes fault current minimum at 480/277 VAC. All copper parts shall be plated to prevent corrosion. Panelboards shall bear the UL label. Panelboards for service entrance applications shall be UL-listed suitable for service entrance. All panelboards shall be dead-front safety-type, equipped with thermal magnetic-molded case breakers and solid neutral bus. Bus bar connections to the branch circuit breakers shall be the "Distributed Phase" or "Phase Sequence" type. Bussing shall be such that adjacent single-pole breakers will be on different phases or polarities, and that two pole breakers can be installed at any location. Panelboard numbering shall be such that starting at the top, odd numbers shall be used in sequence down the left hand side, and even numbers shall be used in sequence down the right hand side. Cabinets shall be fabricated of code-gauge, galvanized steel with gutters per the NEC. Cabinets for outdoor locations shall be rated NEMA 3R and NEMA 12. Fronts shall have doors with matching one-piece trim, be code-gauge, and be finished with rust-inhibiting primer and baked enamel. Fronts shall have adjustable indicating trim clamps completely concealed when door is closed. Provide a circuit directory frame and card with a clear plastic covering on the inside of the doors. Fronts shall have flush locks, and be furnished with two keys per lock. Provide circuit breakers, quick-make, quick-break, thermal-magnetic, trip indicating, and common trip on all multi-pole breakers. Handles shall have "ON", "OFF" and "TRIPPED" positions. Circuit breakers shall be UL-listed in accordance with UL Standard 489. Breakers shall have bolt-on connections to the bus. Amperage trip ratings, voltage ratings, interrupting current ratings, and number of poles shall be as shown on the panelboard schedules. Contractor shall confirm and adjust circuit breaker sizes, as required for the respective equipment or device being fed, in accordance with the respective equipment manufacturer's recommendation and the NEC. Panelboards shall be furnished with copper-ground bus and separate insulated copper neutral bus.
- C. <u>Surge Protective Device for Service Panelboard</u>. AC power surge protective device shall be UL-listed per UL 1449, Third Edition, and shall conform to the applicable requirements of FAA-STD-019d dated August 9, 2002, "LIGHTNING AND SURGE PROTECTION, GROUNDING, BONDING, AND SHIELDING REQUIREMENTS FOR FACILITIES AND ELECTRONIC EQUIPMENT". AC power surge arrester/TVSS for the service panel shall be suitable for a 480/277 VAC, 3-phase, 4-wire, plus ground system with a surge current rating of 240,000-Amps, 8 x 20 microsecond wave per mode (L-L, L-N, L-G, N-G), and status indication lights in a NEMA 4X stainless steel enclosure, Lightning Protection Corporation Model LPC 2070-8U-G, or approved equal. Include six spare indicator lamps with each AC power surge protective device.

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- D. <u>Junction and Pull Boxes</u>. Junction and pull boxes shall be sized, as required for conductors and splices and per 2011 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 the NEC, even though they might not be indicated on the Drawings. Boxes located outdoors shall be NEMA 4 stainless steel.
- E. Schedule 40 PVC Conduit. Schedule 40 PVC conduit shall comply with Item 110 and the following: Conduit shall be Schedule 40 PVC, UL-listed, rated for 90°C cable-conforming to NEMA Standard TC-2 and UL 651. Fittings shall conform to NEMA Standard TC-3 and UL 514B. Conduits shall be suitable for underground applications encased in concrete or direct burial, and suitable for exposed applications aboveground.
- F. 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 NEC. Liquid-tight flexible metal conduit and associated fittings shall be UL-listed to meet the requirements of NEC 350.6. Liquid-tight flexible metal conduit shall be Anaconda Sealtite Type UA as manufactured by Anamet Electrical Inc., 1000 Broadway Avenue East, Mattoon, Illinois 61938-0039, (Phone: 217-234-8844), Liquatite Type LA as manufactured by Electri-Flex Company, 222 W. Central Ave., Roselle, Illinois 60172, (Phone: 630-529-2920 or 1-800-323-6174), or approved equal. Do not install liquid-tight flexible metal conduit that is not UL listed. Contractor shall confirm liquid-tight flexible metal conduit bears the UL label prior to installation."

<u>109-2.20</u> <u>WIRE</u>. Delete Paragraphs 1, 2, and 3 under Section B. Power Circuits.

Add the following:

"Power Cable (600-Volt and Below). - All power wiring, 600-Volt and below, shall be the type, size, and number of conductors as noted on the Plans. Cable types shall include the following:

"THWN Wire. Cable shall comply with Underwriters' Laboratories Standard UL-83 and Federal Specification A-A-59544. Conductor shall be soft-annealed, uncoated copper and shall comply with ASTM B3 and B8. Insulation shall be rated for 600-Volt. 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.

"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 600-Volts. 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 Service Wire Company Type USE-2, or approved equal.

"XHHW Wire. - Cable shall be UL-listed as Type XHHW-2 per UL Standard 44. Cable shall also conform to ICEA S-95-658/NEMA WC70 and Federal Specification A-A-59544. Conductors shall be Class B stranded, annealed, uncoated copper per UL Standard 44. Insulation shall be rated for 600-Volt. Insulation shall be cross-linked polyethylene complying with the physical and electrical requirements of UL Standard 44 for Type XHHW-2. XHHW wire may be used in place of THWN wire for all applications.

"Grounding electrode conductors and/or bonding jumpers shall be the size and type, as detailed on the Plans."

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CONSTRUCTION METHODS

109-3.10 GENERAL. Add the following to this Section:

"The Contractor shall furnish and install all materials necessary for complete and operational installation of the service and power distribution equipment, as specified herein 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 NFPA 70 - National Electrical Code (NEC) most current issue in force, City of Waukegan Amendment to the National Electrical Code, 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 will not be permitted. Included in this item are:

- A. Contractor shall keep a copy of the latest National Electrical Code in force on site at all times during construction for use as a reference.
- B. Contractor shall keep a copy of the Plans, Special Provision Specifications including any addenda, and copies of any change orders on site at all times during construction.
- C. Contractor shall coordinate work and any power outages with the Airport Manager, the Airport Maintenance Staff, and the Resident Engineer. Any shutdown of existing systems shall be scheduled with and approved by the Airport Manager prior to shutdown. Once shut down, the circuits shall be labeled as such to prevent accidental energizing of the respective circuits. All personnel shall follow U.S. Department of Labor Occupational Safety & Health Administration (OSHA) 29 CFR Part 1910 Occupational Safety and Health Standards for electrical safety and lockout/tagout procedures including, but not limited to, 29 CFR Section 1910.147 The Control of Hazardous Energy (lockout/tagout).
- D. Contractor shall comply with the requirements of FAA AC No. 150/5370-2F (or most current issue) "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION".
- E. Contractor shall comply with the applicable requirements of NFPA 70E Standard for Electrical Safety in the Workplace.
- F. All electrical equipment installed by the Contractor shall be properly labeled, and all cables must be tagged.
- G. Locate Existing Utilities and Cables. The location, size, and type of material of existing underground and/or aboveground 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.

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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 Owner's Representative and/or the Resident Engineer shall also be immediately notified. Any damage to such mains and services shall be restored to service at once and paid for by the Contractor at no additional cost to the Contract. All utility cables and lines shall be located by the respective utility. Contact JULIE (Joint Utility Location Information for Excavators) for utility information, phone: 1-800-892-0123. Contact the FAA (Federal Aviation Administration) for assistance in locating FAA cables and utilities. Location of FAA power, control, and communication cables shall be coordinated with and/or located by the FAA. Also contact Airport Director/Manager and Airport Personnel for assistance in locating underground Airport cables and/or utilities.

H. Secure, identify, and place any temporary exposed wiring in conduit to prevent electrocution and fire ignition sources."

<u>109-3.11</u> <u>POWER SUPPLY EQUIPMENT</u>. Add the following to this Section:

"Electric Service for Gate Operators." - Contractor shall furnish and install electric service entrance for the Gate Operators, as detailed on the Plans and specified herein. As part of the service entrance work, the Contractor shall coordinate with the serving utility, (Commonwealth Edison Company New Business Department Phone: 866-639-3532 and Ms. Kim Kangas Com Ed Service Representative Phone: 847-816-5497) the installation of a 120/240 VAC, single-phase, 3-wire service sufficient to handle a 100-Amp service for the obstruction lighting, gate operators, and associated equipment. The respective Airport Authority/IDOT Division of Aeronautics will pay for all associated electric utility company charges required to provide electric service. The Contractor is not responsible for electric utility company charges associated with the proposed electric service for the gate operators. 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.

- A. <u>Electric Utility Company</u>. Major work items to be performed by the serving electric utility company will 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 100-Amp service.
 - 2. Furnishing and installing the meter.
 - 3. Connecting service conductors to the utility transformer.
 - 4. The serving electric utility company shall retain the right to review and approve Drawings prior to installation.
- B. <u>Contractor</u>: Major work items to be performed by the Contractor 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.
 - Furnishing and installing service entrance cables and conduit from the utility transformer to the
 utility metering equipment. Provide sufficient slack for the utility company to make connections
 to their equipment.
 - 2. Furnishing and installing service entrance cables and conduit from the utility metering equipment to the service panelboard.
 - 3. Furnishing and installing a new service panelboard as detailed on the Plans and specified herein.

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- Furnishing and installing ground conductors, ground rods, and grounding electrode conductor conduit.
- 5. Coordinating work with the Airport Manager and/or the Airport Representative.
- 6. Coordinating work and verifying all requirements with serving electric utility.
- 7. Additional work as required by the serving electric utility and as required to provide a complete and operational electric service entrance system."

109-3.12 <u>SWITCHGEAR AND PANELS</u>. Add the following to this Section:

"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. Maximum distance from floor to highest breaker shall not exceed 6 feet-6 inches. Install panelboards plumb. Install circuit breakers in panelboards in conformance with the respective manufacturer's directions. Connect only one wire/cable to each breaker terminal. Provide filler plates for unused spaces in panelboards. Provide typed circuit directory for each branch circuit panelboard to identify the respective device fed by each circuit breaker. Revise directory to reflect circuiting changes, as required. Provide legend plates for all panelboards to identify the panelboard designation, 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.

"Surge Arrester Installation. Install Surge Protector Devices (SPD)/TVSS devices in conformance with of FAA-STD-019d, dated August 9, 2002, "LIGHTNING AND SURGE PROTECTION, GROUNDING, BONDING AND SHIELDING REQUIREMENTS FOR FACILITIES AND ELECTRONIC EQUIPMENT" and the respective manufacturer's directions and recommendations. Contractor shall confirm all connections to the surge arrester (phases, neutral, and ground) are completed and secure. Connection leads to the surge arrester shall be sized per the respective manufacturer's recommendation and as detailed herein, and shall be maintained as short as possible, maximum 2 feet in length, and laced together for mutual coupling. The conduit or conduit nipple connecting the SPD/TVSS device enclosure to the panel enclosure shall be sealed with duct seal or other nonflammable medium to prevent soot from entering the enclosure in the event of a SPD/TVSS device failure."

109-3.13 DUCT AND CONDUIT. Add the following to this Section:

- "A. Conduit shall be installed in accordance with the following:
 - 1. All service, feeder, branch circuit, and control circuit conduits shall be galvanized, rigid steel.
 - 2. Schedule 40 PVC conduits shall be used for individual grounding electrode conductors and/or bonding jumpers.
 - 3. Liquid-tight, flexible metal conduit shall be used as specified herein.

"B. Conduit Runs

- 1. All conduits shall be sized as indicated on the Drawings, or if conduit sizes not shown, shall be in accordance with the NEC. All conduit systems shall be mechanically and electrically continuous from source of current to all outlets and grounded in accordance with the NEC.
- Run all exposed conduit parallel to building walls using right-angle bends. Exposed diagonal runs of conduit will not be permitted. Do not install conduit on roof surfaces unless specifically indicated on the Drawings.

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- 3. Ream conduit after threads are cut. Cut ends square, and butt solidly into couplings.
- 4. Prevent the accumulation of water, foreign matter, or concrete in the conduits during the execution of the work. Temporarily plug conduit, blowout, and swab before wires are pulled.
- 5. Fasten conduits to all sheet metal boxes and cabinets with two locknuts in accord with NEC, where insulated bushings are used and where bushings cannot be brought into firm contact with the metal enclosures; otherwise, use at least a single locknut and bushing.
- 6. Provide conduit expansion joints at building expansion joints for conduit runs 1½ inch and larger. Provide conduit expansion joints or flexible conduit connection at building expansion joints for conduits less than 1½-inch.
- 7. Seal each underground joint and make water-tight.
- Where building construction or other conditions make it impossible to use standard threaded couplings, install water-tight, threaded unions.
- 9. Make changes in direction of runs with symmetrical bends or cast-metal fittings. Make field-made bends and offsets with conduit bending machine to avoid changing the internal diameter of the conduit and not damage its protective coating either inside or outside. Individual bends shall not exceed 90 degrees and not more than 270 degrees total bends will be allowed in any one conduit run. Where more bends are necessary, and conduit runs exceed 150-linear feet, install a suitable pull box or junction box.
- Provide empty conduits installed with a pull wire. Pull wire shall be No. 14 AWG zinc-coated steel, or
 of plastic having not less than 200-lb. tensile strength. Leave not less than 12-inch of slack at each
 end of the pull wire.
- 11. Use liquid-tight, flexible metal conduit for final connection to motors, constant current regulators, transformers, portable equipment, and for equipment subject to vibration and noise transmission. For each conduit sizes up to 1-inch trade size, flexible conduit shall be minimum length of 12-inch and a maximum length of 36-inch. For conduit sizes above 1-inch trade size, flexible conduit shall be minimum length of 20-inch and maximum length of 48-inch. Liquid-tight, flexible metal conduit shall be UL-listed and suitable for grounding. Liquid-tight, flexible metal conduit that is used for flexibility (including connections to motors, constant current regulators, and transformers) shall require and external bonding jumper or internal equipment grounding conductor per NEC 350.60. Do not install liquid-tight, flexible metal conduit that is not UL-listed.

"C. Raceway Support and Hangers

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1. Securely fasten raceways in-place and support from ceiling or walls at spacing not exceeding:

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	<u>Material</u>	Maximum Spacing of Supports
a. b. c. d. e.	½-inch thru 1-inch trade size conduit 1¼-inch thru 1½-inch trade size conduit 2-inch to 4-inch trade size conduit Liquid-Tight, Flexible Metal Conduit Metal Wireway	6 feet 8 feet 10 feet 4½ feet 10 feet

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- 2. Support rigid conduits within 3 feet of every outlet box, junction box, pull box, cabinet, or termination. Support flexible conduit within 12-inch on each side of every outlet box or fitting.
- 3. Support conduits by pipe straps, wall brackets, hangers, or ceiling trapeze. The use of perforated iron or wire for supporting conduits is prohibited. Fasten with wood screws or screw nails to wood; by toggle bolts on hollow masonry units, by concrete inserts, or expansion bolts on concrete or spring-tension or threaded C-clamps for rigid steel conduits on steel. Do not weld conduits or pipe straps to steel structures unless specifically indicated.
- 4. The load applied to fasteners shall not exceed one-third the proof test load of the fasteners.
- 5. Fasteners attached to concrete shall be vibration-resistant and shock-resistant.
- 6. Where two or more conduits 1-inch trade size or larger run parallel, trapeze hangers may be used consisting of threaded solid rods, washers, nuts, and galvanized "L" angle or channel iron. Individually fasten conduits to the cross member of every other trapeze hanger with one hole straps or clamp backs with proper size bolts, washers, and nuts. When adjustable trapeze hangers are used, use U-bolt type clamps at end of conduit runs, at each elbow, and at each third intermediate hanger to fasten each conduit.
- 7. Make hangers of durable materials suitable for the application involved. Applied loads shall not exceed one-third of their loading capacity.
- 8. All screws, bolts, washers, and miscellaneous hardware used for conduit supports shall be fabricated from rust-resisting metal. Trapeze hangers shall have hanger assemblies protected with galvanized finish."

109-3.15 WIRING AND CONNECTIONS. Add the following to this Section:

"Low-voltage wiring shall maintain separation from high-voltage wiring. Low-voltage and high-voltage wiring shall not be installed in the same raceway. Low-voltage and high-voltage wiring shall not be installed in the same handhole or junction box."

109-3.16 MARKING AND LABELING. Add the following to this Section:

- "C. Legend plates shall be provided for all equipment. Legend plates shall be provided to identify the equipment controlled, the power source, and the function of each device. Legend plates shall be weatherproof, abrasion-resistant, phenolic/plastic, engraved material and fastened with contact-type permanent adhesive, screws, or rivets. Installation shall not break, crack, or deform the legend plate. Lettering shall be ¼ inch high, black on a white background, unless noted otherwise.
- "D. Identify control wiring at each termination point and in junction/terminal boxes with wire number corresponding to the respective control wiring diagram or respective terminal numbering arrangement. Each individual control wire shall have unique identification and shall maintain that same identification from its point of origin to its final termination point. Wire markers shall be permanent pressure sensitive label with suitable numbers or letters for easy recognition. Where new control wiring is interfaced to existing control wiring it shall also match the color coding of the existing control wiring.

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- "E. Color-code phase and neutral conductor insulation for No. 6 AWG or smaller. Provide colored marking tape for phase and neutral conductors for No. 4 AWG and larger. Insulated ground conductors shall have green colored insulation for all conductor sizes (AWG and/or KCMIL) to comply with NEC 250.119. Neutral conductors shall have white or gray colored insulation for No. 6 AWG and smaller to meet the requirements of NEC 200.6. Standard colors for 120/240 VAC single phase, 3-wire system power wiring and branch circuits shall be as follows: Phase A-Black, Phase B-Red, Neutral-White, and Ground-Green.
- "F. Furnish and install weatherproof warning label for each cutout enclosure and control panel to warn persons of potential electric arc flash hazards, per the requirements of NEC 110.16 "Flash Protection". Labels shall also conform to ANSI Z535.4-2002 "American National Standard for Product Safety Signs and Labels". NEC 110.16 requires that switchboards, panelboards, industrial control panels, meter socket enclosures, and motor control centers that are likely to require examination, adjustment, servicing, or maintenance while energized shall be field marked to warn qualified persons of potential arc flash hazards. The markings shall be located so as to be clearly visible to qualified persons before examination, adjustment, servicing, or maintenance of the equipment. This new requirement is intended to help reduce the occurrence of serious injury or death due to arcing faults to those working on or near energized electrical equipment. The warning labels are to indicate to a qualified worker who intends to open the equipment for analysis of work that a serious hazard exists and that the worker should follow appropriate work practices and wear appropriate PPE for the specific hazard. Labels shall be as detailed on the Plans or shall include at least the following information: "Warning Potential Arc-Flash Hazards exist while working on this energized equipment. Appropriate PPE Required.""

109-3.18 TESTING. Revise this Section to read:

"The installation shall be tested in operation and as a completed unit prior to acceptance. Contractor shall furnish all equipment, meters, instruments, cable connections, tools, manpower, and labor to perform the respective tests. Test all new equipment and all existing equipment where modifications take place and confirm proper operation. Coordinate tests with the respective Airport personnel and the Resident Engineer. Tests shall include resistance, voltage, and current reading, as applicable, for the respective equipment. When tests disclose any unsatisfactory workmanship or equipment furnished under this Contract, correct defects and retest. Repeat tests until satisfactory results are obtained. When any wiring or equipment is damaged by tests, the wiring or equipment shall be repaired or replaced at no additional cost to the Contract. Test repaired or replaced items to ensure satisfactory operation. Submit three copies of all test reports to the Resident Engineer. All test reports shall be assembled and bound in a folder or binder. Each test report shall include the following information:

Project number,
Project title and location,
Device or system tested,
Test performed,
Date performed,
Test equipment used,
Respective Contractor's name, address, and telephone number,
Testing firm's name, address, and telephone number, if other than the Contractor
Names of individuals performing tests,
Names of individuals observing tests

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Statement verifying each test,
Nameplate data from respective equipment tested,
Test results, and
Retest results after correction of defective components or systems, where applicable."

<u>109-3.19</u> <u>GROUNDING REQUIREMENTS</u>. Grounding shall conform to the following:

The Contractor shall furnish and install all grounding shown on the Plans, as specified herein, and in conformance with latest NFPA 70 - National Electrical Code in force in order to make a complete grounding system. 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, Sanchem Inc. "NO-OX-ID "A-Special" compound, Burndy Penetrox E, or approved equal.
- C. Metallic surfaces to be joined shall be prepared by the removal of all non-conductive material, per 2011 NEC, Article 250.12. All copper bus bars must be cleaned prior to making connections to remove surface oxidation.
- D. Metallic raceway fittings shall be made up tight to provide a permanent low impedance path for all circuits. Metal conduit terminations in enclosures shall be bonded to the enclosure with UL-listed fittings suitable for grounding. Provide grounding bushings with bonding jumpers (from bushing to the respective ground connection/enclosure frame) for all metal conduits entering service equipment (meter bases, CT cabinet, service disconnects, service panelboards, main service breaker enclosure, etc.). Provide grounding bushings with bonding jumpers for all metal conduits entering an enclosure through concentric or eccentric knockouts that are punched or otherwise formed so as to impair the electrical connection to ground. Standard locknuts or bushings shall not be the sole means for bonding where a conduit enters an enclosure through a concentric or eccentric knockout.
- E. 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.
- F. All metal equipment enclosures, conduits, cabinets, boxes, receptacles, etc. shall be bonded to the respective grounding system.

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- G. Each feeder circuit and/or branch circuit shall include an equipment ground wire. Metal raceway or conduit shall not meet this requirement. The equipment ground wire from equipment shall not be smaller than allowed by 2011 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, and 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.
- H. 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 NEC. 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 the 2011 NEC, Article 250.24. Where the Contractor is unable to distinguish the difference between a neutral conductor and equipment grounding conductor, or other ground conductor, contact the Resident Engineer for assistance from the Project Engineer.
- I. The secondary neutral of all transformers (separately derived system transformers) shall be grounded in accordance with the NEC. The respective grounding electrode conductor shall be connected to the neutral point of the transformer between the transformer and the output disconnect means. Size of the grounding electrode conductor shall be in accordance with the 2011 NEC, Article 250.66 and Table 250.66, unless shown larger on the Drawings. A bond shall be provided between the neutral and transformer case, or other metal that is part of the AC equipment grounding system, so as to complete a circuit for fault current to the transformer winding from the AC equipment grounding system. Size of the neutral bonding conductor shall be in accordance with the 2011 NEC, Article 250.102.
- J. All exterior metal conduits, 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 the 2011 NEC, Article 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 the 2011 NEC, Article 250.102.
- K. Install grounding electrode conductors and/or individual ground conductors in Schedule 40 or Schedule 80 PVC conduit. Where grounding electrode conductors or individual ground conductors are run in PVC conduit, do not completely encircle conduit with ferrous and/or magnetic materials. Use non-metallic, reinforced fiberglass strut support. Where metal conduit clamps are installed, use nylon bolts, nuts, washers, and spacers to interrupt a complete metallic path from encircling the conduit.
- L. Individual ground conductors and/or grounding electrode conductors shall not be run in metallic conduit and shall not be encircled by metallic clamps. If local codes dictate that grounding conductors must be run in metal conduit or raceway, then the conduit or raceway must be bonded to the grounding conductor at both ends with a bonding jumper sized in accordance with the NEC 250.64(E). All such installations requiring individual grounding conduits to be run in metal conduit or raceway shall be verified and reviewed with the Resident Engineer. This does not apply to AC equipment ground wires run with AC circuits.

METHOD OF MEASUREMENT

109-4.1 Delete this Section.

109-4.2 Delete this Section.

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<u>109-4.3</u>. Add the following to this Section:

"The quantity of equipment to be paid for under AR109535 "Electric Service Entrance" shall consist of furnishing and installing new electric service from the respective utility transformer secondary to the respective electric utility meter base as detailed on the Plans and specified herein. This item shall include all labor, field verification of existing conditions, transportation, equipment, materials, conductors, connectors, conduits, tools, coordination, labeling, testing and all incidentals required to place the electric service into proper working order as a completed unit to the satisfaction of the Owner and Engineer."

Add:

<u>109-4.4</u>

The quantity of equipment to be paid for under Item AR800969 "Secondary Power Distribution" shall consist of furnishing and installing an electric utility meter pedestal, service panelboard, surge protective device, support structure and associated conduits, wiring, grounding and incidentals to power the electric gate operators as detailed on the Plans and specified herein. This item shall include all labor, field verification of existing conditions, transportation, equipment, materials, conductors, connectors, conduits, raceways, junction boxes, grounding, tools, coordination, operational instructions, labeling, testing and all incidentals required to place service and power distribution system and associated equipment into proper working order as a completed unit to the satisfaction of the Owner and Engineer.

BASIS OF PAYMENT

109-5.1 Add the following:

"Payment will be made under:

"Item AR109535 Electric Service Entrance - per lump sum.

Secondary Power Distribution - per lump sum."

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ITEM 110

INSTALLATION OF AIRPORT UNDERGROUND ELECTRICAL DUCT

Revise Item 110 of the Standard Specifications as follows:

DESCRIPTION

110-1.1 Add the following:

"This item of work shall consist of the installation of all proposed conduits and ducts as shown on the Construction Plans."

Add:

110-1.2 REFERENCES

- A. ANSI C80.1 Rigid Steel Conduit, Zinc Coated.
- B. ANSI C80.4 Fittings Rigid Metal Conduit and EMT.
- C. ASTM D3350 Specification of Polyethylene Plastics Pipe and Fittings Materials.
- D. ASTM F2160 Standard Specification for Solid Wall, High-Density Polyethylene Conduit Based on Controlled Outside Diameter.
- E. NEMA TC-2 Electrical Plastic Tubing and Conduit.
- F. NEMA TC-3 Fittings Rigid PVC Conduit and Tubing.
- G. NEMA Specification TC-7 Smooth-Wall Coilable Polyethylene Electrical Plastic Conduit.
- H. NFPA 70 National Electrical Code (NEC), most current issue in force.
- I. UL Standard 6 Rigid Metal Conduit.
- J. UL Standard 514B Conduit, Tubing and Cable Fittings.
- K. UL Standard 651 Schedule 40 and 80 Rigid PVC Conduit.
- L. UL Standard 651B Standard for Continuous Length High-Density Polyethylene (HDPE) Conduit.

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- SHOP DRAWINGS. The Contractor shall furnish shop drawings for approval before ordering equipment and/or materials. Shop drawings are required for each type of conduit or duct to be used on the project. 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 gate shop drawing prior to submitting the shop drawing for review. Shop drawings 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, sub-contractor personnel, and equipment suppliers plus four (4) copies to be retained by the Project Engineer. Shop drawings shall include the following information:
 - A. Certification of compliance with the AIP (Airport Improvement Program) Buy American Act Title 49 USC Section 50101 for all materials and equipment. Do not submit ARRA (American Recovery and Reinvestment Act) certification as a substitute for certification of compliance with the AIP Buy American Preferences. Shop drawings submitted without certification of compliance with the Airport Improvement Program Buy American Preferences or without certification of manufacture in the United States of America in accordance with the AIP Buy American Requirements will be rejected. See the FAA website at: http://www.faa.gov/airports/aip/buy_american/ for more information on the Airport Improvement Program Buy American Preferences requirements.
 - B. In order to expedite the shop drawing review, inspection and/or testing of materials and equipment, the Contractor shall furnish complete statements to the Project Engineer as to the origin and manufacturer of all materials and equipment to be used in the work. Such statements shall be furnished promptly after execution of the Contract but, in all cases, prior to delivery of such materials and equipment.
 - C. Indicate the pay item number for each respective conduit or duct.
 - D. Shop drawings shall include conduit and/or duct cut sheets with type, size, specifications, UL listing, manufacturer, and catalog or part number.
 - E. Provide certification that the respective steel conduits used on this project are manufactured from 100 percent domestic steel.

EQUIPMENT AND MATERIALS

<u>110-2.1</u> <u>GENERAL</u>. Add the following:

"All materials for these items shall be in accordance with the FAA Standard Specification 110 Equipment and Materials, as detailed on the Plans, and as specified herein."

"The duct to be directional-bored shall be Galvanized Rigid Steel Conduit (GRSC) duct, Schedule 40 PVC Conduit, Schedule 80 PVC Conduit or High-Density Polyethylene (HDPE) duct, (Schedule 40, Schedule 80, SDR 9, or SDR 11)."

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<u>110-2.2</u> <u>STEEL CONDUIT</u>. Replace this Section with the following:

"Rigid Steel Conduit and fittings shall be hot-dipped, galvanized, UL-listed, and produced in accordance with UL Standard 6 - Rigid Metal Conduit and ANSI C80.1 - Rigid Steel Conduit, Zinc Coated. Couplings, connectors, and fittings for rigid steel conduit shall be threaded, galvanized steel or galvanized, malleable iron, specifically designed and manufactured for the purpose. Fittings shall conform to ANSI C80.4 - Fittings Rigid Metal Conduit and EMT and UL 514B - Conduit, Tubing, and Cable Fittings. Set screw type fittings are not acceptable. Steel used to manufacture conduits shall be 100 percent domestic steel. Contractor shall provide certification that the respective steel conduits used on this project are manufactured from 100 percent domestic steel.

"Miscellaneous Fittings. Fittings shall be suitable for use with conduits and ducts supplied. All fittings for use with rigid metal conduit shall be threaded. Set screw-type fittings are not acceptable. All conduit bodies, fittings, and boxes installed in classified hazardous locations (Class I, Division 1 or 2, Group D) shall be suitable for use in Class I, Division 1, and Group D locations. Fittings shall be as manufactured by Appleton, Crouse-Hinds, Hubbell-Killark, O-Z/Gedney, or approved equal."

<u>110-2.3</u> <u>PLASTIC CONDUIT</u>. Add the following to this Section:

"Conduits for concrete encasement shall be Schedule 40 PVC, UL-listed, rated for 90?C cable-conforming to NEMA Standard TC-2 and UL 651, listed suitable for concrete encasement. Conduits for directional boring shall be Schedule 40 PVC or Schedule 80 PVC conduit, UL-listed, rated for 90?C cable-conforming to NEMA Standard TC-2 and UL 651 and suitable for directional boring installation, Schedule 40 HDPE or Schedule 80 HDPE conduit, UL-listed, conforming to NEMA Standard TC-7 and UL 651B and suitable for directional boring installation, or Wall Type SDR 9 or SDR 11 HDPE conduit manufactured in accordance with ASTM D-3350 (Specification of Polyethylene Plastics Pipe and Fittings Materials) and ASTM F2160 (Standard Specification for Solid Wall, High-Density Polyethylene Conduit Based on Controlled Outside Diameter), 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. Conduits shall be suitable for underground applications encased in concrete or direct burial, and suitable for exposed applications aboveground."

CONSTRUCTION METHODS

110-3.1 GENERAL. Add to this Section:

"The proposed conduits and ducts shall be constructed at the locations and in accordance with the details shown on the Construction Plans. Ducts shall be installed 24 inch minimum below grade. Ducts located in area subject to farming shall be 42 inch minimum below grade. Where detailed on the Plans or where required to avoid obstructions, ducts shall be buried deeper. Where concrete-encased duct interfaces to directional-bored duct at a pavement crossing, the concrete encasement shall be installed up to the respective pavement edge. Where concrete-encased duct interfaces to an electrical handhole or manhole, the concrete encasement shall be installed up to the respective handhole or manhole. Provide bushings or bells at conduit terminations in electrical handholes or manholes.

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"Underground ducts installed by directional-boring 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 at the locations shown on the Construction Plans. The ducts will be bored at a minimum depth of 24 inch below the bottom of the pavement it is being bored under. Ducts installed under paved areas and roadways shall extend a minimum of 3 feet beyond the respective pavement or roadway surface unless detailed otherwise on the Plans. 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 ducts and any existing utilities. He will make all necessary adjustments in depth of installation to avoid any and all proposed underground improvements."

<u>110-3.7</u> <u>RESTORATION</u>. Add the following to this Section:

"Any and all trenches and disturbed areas will be backfilled and restored to a smooth grade and seeded to the satisfaction of the Engineer. All trench settlement shall be corrected for a period of one year. Restoration, grading, and seeding of areas disturbed during the installation of the proposed ducts will be incidental to the respective pay item for which the duct is installed. The seeding will be completed in accordance with Items 901 and 908, but will be incidental to the respective pay item for which the duct is installed."

Add:

110-3.8

LOCATING EXISTING UNDERGROUND UTILITIES AND CABLES. The location, size, and type of material of existing underground and/or aboveground 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 Owner's Representative and/or the Resident Engineer shall also be immediately notified. Any damage to such mains and services shall be restored to service at once and paid for by the Contractor at no additional cost to the Contract.

All utility cables and lines shall be located by the respective utility. Contact JULIE (Joint Utility Location Information for Excavators) for utility information, phone: 1-800-892-0123. Contact the FAA (Federal Aviation Administration) for assistance in locating FAA cables and utilities. Location of FAA power, control, and communication cables shall be coordinated with and/or located by the FAA. Also contact Airport Director/Manager and Airport Personnel for assistance in locating underground Airport cables and/or utilities. Also coordinate work with all aboveground utilities.

Contractor shall locate and mark all existing cables within ten (10) feet 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 Resident Engineer at the Contractor's expense. The Resident 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 respective duct installation.

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METHOD OF MEASUREMENT

110-4.1 Delete this Section.

110-4.2 Revise this Section to read as follows:

"For Item AR110014, 4" Directional Bore, the quantity of conduit and/or duct to be paid for shall be the number of linear feet of ducts of the particular type installed and measured in-place, complete, and accepted by the Resident Engineer."

Add:

All other conduits and ducts including, but not limited to, those associated with the Electric Service Entrance, the Secondary Power Distribution, and the electric slide gates will not be measured for payment. This shall be incidental to the respective item of work for which it is being installed.

BASIS OF PAYMENT

110-5.1 Revise this Section to read as follows:

"Payment will be made at the Contract unit price per each type and size of conduit or duct, 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; for all duct interface work to handholes/manholes including coring of handholes/manholes; for all excavation and backfilling with aggregate backfill, earth backfill, and concrete; and for all labor, coordination, equipment, tools, and incidentals necessary to complete this item.

"Topsoiling, seeding and mulching of the disturbed area shall not be paid for separately, but shall be considered incidental to the associated duct.

"Payment will be made under:

"Item AR110014 4" Directional Bore - per linear foot."

Add:

Payment for the furnishing and installation of conduit and/or duct for the Electric Service Entrance, the Secondary Power Distribution, and the electric slide gates will not be measured for payment, and no additional compensation will be made. For each respective installation, all costs for furnishing all materials and for all preparation, assembly, and installation of these materials; for all sawing and pavement removal; for all duct interface work to handholes/manholes including coring of handholes/manholes; 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 is considered incidental to the item of work for which the duct is being installed.

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ITEM 119

AIRPORT OBSTRUCTION LIGHTS

Revise Item 110 of the Standard Specifications as follows:

DESCRIPTION

119-1.1 Add the following:

"This item of work shall consist of the complete installation of all proposed obstruction lights as shown on the Construction Plans. Installation shall include, but not be limited to, obstruction light fixtures, all necessary conduits, fittings, junction boxes, switches, circuit breakers, fuses, seals and internal wiring as required for a complete and operational installation. This item will include all labor, tools, testing, equipment, and materials required to put the proposed obstruction lighting in proper working order."

ADD:

119-1.2 REFERENCES.

- A. Item 108 and Item 110 are part of these Contract Documents, including associated Special Provisions, for all incidental conduits, fittings, internal wiring, etc. associated with the complete installation of obstruction lighting.
- B. ANSI C80.1 Rigid Steel Conduit, Zinc Coated.
- C. ANSI C80.4 Fittings Rigid Metal Conduit and EMT.
- D. ASTM Specification B3 Standard Specification for Soft or Annealed Copper Wire.
- E. ASTM Specification B8 Standard Specification for Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft.
- F. FAA AC No. 150/5345-53 "AIRPORT LIGHTING EQUIPMENT CERTIFICATION PROGRAM" (most current issue) and AC150/5345-53C, AIRPORT LIGHTING EQUIPMENT CERTIFICATION PROGRAM Appendix 3 Addendum.
- G. FAA AC No. 150/5345-43F "SPECIFICATION FOR OBSTRUCTION LIGHTING EQUIPMENT" (or most current issue in force).
- H. Federal Specification A-A-59544 Cable and Wire, Electrical (Power, Fixed Installation).
- I. NFPA 70 National Electrical Code (NEC), most current issue in force.
- J. NFPA 70E Standard for Electrical Safety in the Workplace.
- K. UL Standard 6 Rigid Metal Conduit.
- L. UL Standard 83 Thermoplastic-Insulated Wires and Cables.

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- SHOP DRAWINGS. The Contractor shall furnish shop drawings for approval before ordering equipment and/or materials. Shop drawings are required for each material to be used for this item. 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 gate shop drawing prior to submitting the shop drawing for review. Shop drawings 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, sub-contractor personnel, and equipment suppliers plus four (4) copies to be retained by the Project Engineer. Shop drawings shall include the following information:
 - A. Certification of compliance with the AIP (Airport Improvement Program) Buy American Act Title 49 USC Section 50101 for all materials and equipment. Do not submit ARRA (American Recovery and Reinvestment Act) certification as a substitute for certification of compliance with the AIP Buy American Preferences. Shop drawings submitted without certification of compliance with the Airport Improvement Program Buy American Preferences or without certification of manufacture in the United States of America in accordance with the AIP Buy American Requirements will be rejected. See the FAA website at: http://www.faa.gov/airports/aip/buy_american/ for more information on the Airport Improvement Program Buy American Preferences requirements.
 - B. In order to expedite the shop drawing review, inspection and/or testing of materials and equipment, the Contractor shall furnish complete statements to the Project Engineer as to the origin and manufacturer of all materials and equipment to be used in the work. Such statements shall be furnished promptly after execution of the contract but, in all cases, prior to delivery of such materials and equipment.
 - C. Shop drawings shall include obstruction light cut sheets with type, size, specifications, FAA Approval, manufacturer, and catalog or part number.
 - D. Provide cut sheets for all types of conduit used with the obstruction lighting (for example galvanized rigid steel conduit). Include certification that steel conduits are made with 100 percent domestic steel.

EQUIPMENT AND MATERIALS

119-2.2 OBSTRUCTION LIGHTS. Add the following to this Section:

"Obstruction lights shall be FAA Type L-810 steady burning red obstruction light meeting FAA AC 150/5345-43F and shall be on the current list of FAA-approved equipment noted in FAA AC150/5345-53B, or latest revision. Obstruction lights shall be manufactured in the United States of America to comply with the Airport Improvement Program Buy American Requirement or be on the Federal Aviation Administration list of Equipment meeting Buy American Requirements. Input voltage will be nominal 120 VAC plus or minus 10 percent. Obstruction light fixtures shall include terminals for equipment ground wires. See 119-3.10 BOOSTER TRANSFORMER FOR OBSTRUCTION LIGHTS for loading and Amperage draw design considerations."

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<u>119-2.5</u> <u>CONDUIT</u>. Add the following to this Section:

"Rigid Steel Conduit and fittings shall be hot-dipped, galvanized, UL-listed, produced in accordance with UL Standard 6 - Rigid Metal Conduit and ANSI C80.1 - Rigid Steel Conduit, Zinc Coated. Couplings, connectors, and fittings for rigid steel conduit shall be threaded galvanized steel or galvanized malleable iron specifically designed and manufactured for the purpose. Fittings shall conform to ANSI C80.4 - Fittings Rigid Metal Conduit and EMT. Set screw type fittings are not acceptable. Galvanized rigid steel conduit shall be manufactured in the United States of America and shall be produced from 100 percent domestic steel."

119-2.7 WIRES. Revise this Section to read as follows:

"All power wiring, 600-Volt and below, shall be the type, size, and number of conductors as noted on the Plans and detailed herein. Power wiring associated with the obstruction lighting shall be one of the following types:

- A. <u>THWN Wire</u>. Cable shall comply with Underwriters' Laboratories Standard UL-83 and Federal Specification A-A-59544. Conductor shall be soft-annealed, uncoated Copper and shall comply with ASTM B3 and B8. Insulation shall be rated for 600-Volt. 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-2.
- B. XHHW Wire. Cable shall be UL-listed as Type XHHW-2 per UL Standard 44. Cable shall also conform to ICEA S-95-658/NEMA WC70 and Federal Specification A-A-59544. Conductors shall be Class B stranded, annealed, uncoated Copper per UL Standard 44. Insulation shall be rated for 600-Volt. Insulation shall be cross-linked polyethylene complying with the physical and electrical requirements of UL Standard 44 for Type XHHW-2. XHHW wire may be used in place of THWN wire for all applications.
- C. <u>XLP-USE Wire</u>. 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 600-Volts. 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.

"Color-coding. - Color-code phase and neutral conductor insulation for No. 6 AWG or smaller. Provide colored marking tape or colored insulation for phase and neutral conductors for No. 4 AWG and larger. Insulated ground conductors shall have green colored insulation for all conductor sizes (AWG and/or KCMIL) to comply with NEC 250.119. Neutral conductors shall have white colored insulation for No. 6 AWG and smaller to meet the requirements of NEC 200.6. Standard colors for power wiring and branch circuits for 120/240 VAC, 1-Phase, 3-Wire system shall be Phase A - Black, Phase B - Red, Neutral - White, and Ground - Green. Standard colors for power wiring and branch circuits for 208/120 VAC, 3-Phase, 4-Wire system shall be Phase A - Black, Phase B - Red, Phase C - Blue, Neutral - White, and Ground - Green."

Add:

<u>MEATHERPROOF TOGGLE SWITCH</u>. Furnish and install a weatherproof toggle switch for each set of obstruction lights. Weatherproof toggle switches shall be 20 Amp, 1-pole, 120 VAC, rain-tight suitable for wet locations, cast box with 1-inch feed through conduit hubs, and pad lockable, Crouse Hinds Catalog Number EDSC3129, or approved equal.

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119-2.10 <u>FEEDER OR BRANCH CIRCUIT BREAKERS</u>. Where power for the obstruction lights is to be obtained from an existing panelboard or load center that requires the addition of a feeder and/or branch circuit breaker(s), the new breaker(s) shall be as detailed on the Plans. Breakers shall be compatible with the respective panelboard or load center and shall be the size, type, trip rating, voltage rating, and amp interrupting rating as detailed on the Plans.

Add:

JUNCTION AND PULL BOXES. Junction boxes shall be as detailed on the Plans and shall conform to the applicable sections of National Electrical Code and shall be suitable for the respective application. Junction and pull boxes shall be sized as required for conductors and splices and per 2011 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.

Add:

STONE PAD. A stone pad shall be constructed at each light location as detailed in the Construction Plans. Aggregate used in constructing the aggregate pad around each light location shall conform to requirements for IDOT Gradation CA-6, in <u>Standard Specifications for Road and Bridge Construction</u>, Illinois Department of Transportation, adopted January 1, 2012. Polyethylene sheeting used to line the excavation before aggregate placement shall meet the following specifications:

Property	Required Value	Test Method	
Thickness	16 mil (0.016 in)	ASTM D3767 Method A	
Tensile Strength	68 lb./in	ASTM E154 *	
Water Vapor Permeance	0.03 perms	ASTM E96 Method B *	
Puncture Resistance	3,300 grams	ASTM D1709 *	

^{*} ASTM E-1745 Requirements.

CONSTRUCTION METHODS

Add:

INSTALLATION ON FENCING. Where obstruction lights are to be installed on chain-link fencing or similar fencing, the installation shall be made in accordance with details shown in the Plans. The Contractor shall furnish and install single- or double-obstruction lights as shown in the Plans. Fences shall have one or more double light installed at the highest point and operating simultaneously.

The hub of the obstruction light shall be mounted above, but not more than 6-inches (15 cm) above, the highest point of the fence post or barbed wire at each light location. Obstruction lights shall be mounted consistently with each immediately adjacent light to provide an "in-line" appearance. Conduit supporting the obstruction light units shall be fastened to fence posts with galvanized steel pipe straps and shall be secured by galvanized lag screws.

Obstruction lights shall be steady burning 24 hours a day.

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Conduits, fittings, junction boxes, switches and accessories for use with the obstruction lighting shall be installed on the interior side of the fence to restrict access from outside of the fenced area.

Add:

119-3.10

BOOSTER TRANSFORMER FOR OBSTRUCTION LIGHTS. Boost transformers for use with the voltage power feeder circuit for the obstruction lights will vary depending upon the obstruction light manufacturer and type, their respective lighting load in Amps, and the distance from the power source to the respective obstruction lights. The specified cable feeding the obstruction lights was selected to maintain a voltage drop of less than 5 percent from the respective power source to the obstruction lights and does not require a boost transformer for LED (Light Emitting Diode) type L-810 single obstruction light loads of 14 VA or less at 120 VAC and LED Type L-810 double obstruction light loads of 28 VA or less at 120 VAC. The cable feeders sized on the Plans are based on obstruction lighting loads as noted in the table below.

☐ L-810 OBSTRUCTION LIGHTING DESIGN LOADS

<u>Lighting Circuit</u>	Quantity of Fixtures	Load in VA	Amps at 120 VAC
OL-1	4 - L-810 single unit 3 - L-810 double unit	140 VA	1.17 Amps

If the Contractor proposes to use obstruction lights that have a higher Amperage rating, he will be required to provide voltage drop calculations and furnish a boost transformer (where necessary) adequate to compensate for voltage drop to the obstruction lights. Depending upon the obstruction light fixtures selected and their load requirement the Contractor might also be required to increase the cable size and/or provide additional circuits. Any increase in cable size or additional circuits will be considered incidental to the cost of the obstruction lighting installations and no additional compensation will be allowed. Boost transformers for use with obstruction lighting feeder circuits shall be sized for the respective obstruction lighting loads and to maintain a voltage drop of approximately 5 percent or less and 3 percent or less for incandescent lamps. Also note per FAA AC 150/5345-43F Specification for Obstruction Lighting Equipment, Part 3.3.6 Input Voltage, it states: "The obstruction lighting equipment must be designed to operate from the specified input voltage ± 10 percent. Incandescent lamps must be operated to within ± 3 percent of the rated lamp voltage to provide proper light output." Boost transformer shall be UL listed and designed, manufactured, and tested in accordance with ANSI Standard Z535.3 and NEMA ST20 where applicable. Transformer shall be suitable for indoor/outdoor installation with a NEMA 3R weatherproof enclosure. Boost transformers for obstruction lighting circuits shall be manufactured in the United States to comply with the Airport Improvement Program Buy American Requirement and the "Buy American Act". Confirm proper output voltage for the respective application.

Add:

119-3.11

STONE PAD. The Contractor shall excavate around each light location to the lines and dimensions detailed in the Construction Plans. Spoil shall be hauled and disposed of by the Contractor at an authorized off-site location. The Polyethylene sheeting shall be placed on the bottom and sides of the excavation to completely cover the excavation. Each sheet shall overlap the next sheet by 12 inches. Aggregate shall be carefully placed in the excavation in 6-inch thick lifts, each compacted to the satisfaction of the Resident Engineer.

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- <u>GENERAL</u>. The Contractor shall furnish and install all electrical materials necessary for complete and operational installation of the obstruction lighting system, 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 NFPA 70-National Electrical Code (NEC) 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 will not be permitted.
 - A. The Contractor should examine the proposed site to evaluate the complexity of the work.
 - B. Contractor shall keep a copy of the latest NEC in force on site at all times during construction for use as a reference.
 - C. Contractor shall keep a copy of the Plans, Special Provision Specifications including any addenda, and copies of any change orders on site at all times during construction.
 - D. Contractor shall coordinate work and any power outages to buildings located on the airport with the Airport Director/Manager and/or the respective building personnel. Any shutdown of existing systems shall be scheduled with and approved by the Airport Director prior to shutdown. Once shut down, the circuits shall be labeled as such to prevent accidental energizing of the respective circuits. All personnel shall follow OSHA 29 CFR Part 1910 Occupational Safety and Health Standards for electrical safety and lockout/tagout procedures, including, but not limited to, 29 CFR Section 1910.147 The Control of Hazardous Energy (lockout/tagout).
 - E. Contractor shall comply with the requirements of FAA AC No. 150/5370-2F (or most current issue) "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION".
 - F. Contractor shall comply with the applicable requirements of NFPA 70E Standard for Electrical Safety in the Workplace.
 - G. Splices in conductors will be allowed only within the specified junction boxes or splice cans. Circuit conductors for power wiring shall be continuous from source of power to connected device.
 - H. 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.

Add:

119-3.13 CONDUIT INSTALLATION. Installation of conduit shall conform to Item 110, Installation of Airport Underground Electrical Duct of the Illinois Standard Specifications for Construction of Airports, State of Illinois Department of Transportation Division of Aeronautics and as detailed on the Plans and as specified herein.

Add:

<u>MIRING.</u> The Contractor shall furnish and install all wiring, as detailed in the Construction Plans, per the respective equipment manufacturer's recommendations and as specified herein. Installation of cable and wiring shall also conform to Item 108 of the Standard Specifications.

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119-3.15 INSTALLATION OF FEEDER OR BRANCH CIRCUIT BREAKERS. Install circuit breakers in panelboards and/or load 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.

Add:

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.

Add:

<u>COORDINATION WITH FENCE INSTALLATION.</u> All proposed obstruction lighting shall be installed and operational within ten (10) respective calendar days of respective fence erection. Fence erection shall be defined as the point at which the posts are installed in their permanent position and firmly positioned (set in concrete). Contractor shall coordinate to ensure this requirement is met with no exceptions.

METHOD OF MEASUREMENT

119-4.1 Revise this Section to read as follows:

"The quantity of lights to be paid for under this item shall be measured for payment as a unit price per each for the number of single- or double-type obstruction lights installed and accepted as completed units, in-place, ready for operation, and accepted by the Resident Engineer. Single- or double-type obstruction lights shall include all conduits, fittings, junction boxes, switches, seals, internal wiring, connections, grounding, labor, tools, coordination, testing, excavation, spoil haul and disposal, aggregate and sheeting for Stone Pad, and incidentals for a complete and operational installation. Conduit quantities, fittings, and internal wiring installed from each obstruction light to the below grade interface with the cable in unit duct will be considered incidental to the respective pay item and no additional compensation will be allowed. Cable in unit duct shall transition to cable in galvanized rigid steel conduit where emerging from grade. Galvanized rigid steel conduit and all associated wiring, circuit breakers, fuses, materials, supports, fittings, elbows, tools, work, labor, coordination, and incidentals necessary to complete the item of work will be considered incidental to the installation of the respective obstruction lights and no additional compensation will be allowed. Cable in unit duct from the respective power source to the obstruction lights will be paid for separately under item 108.

"Where boost transformers, or step-up and step-down transformers are required to compensate for voltage drop in the circuit, they will be considered incidental to the installation of the respective obstruction lights and no additional compensation will be allowed."

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BASIS OF PAYMENT

119-5.1 Add the following:

"Payment will be made under:

"Item AR119511 Airport Obstruction Light - Single - per each.

Item AR119512 Airport Obstruction Light - Double - per each."

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