

125

June 11, 2021 Letting

Notice to Bidders, Specifications and Proposal



**Contract No. 76N61
Various Counties
Section DIST 8 L TS 2021-2
Various Routes
District 8 Construction Funds**

Prepared by

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Checked by

(Printed by authority of the State of Illinois)



- 1. TIME AND PLACE OF OPENING BIDS.** Electronic bids are to be submitted to the electronic bidding system (iCX-Integrated Contractors Exchange). All bids must be submitted to the iCX system prior to 12:00 p.m. June 11, 2021 prevailing time at which time the bids will be publicly opened from the iCX SecureVault.
- 2. DESCRIPTION OF WORK.** The proposed improvement is identified and advertised for bids in the Invitation for Bids as:

**Contract No. 76N61
Various Counties
Section DIST 8 L TS 2021-2
Various Routes
District 8 Construction Funds**

Highway lighting and traffic signal repair and maintenance at various locations throughout District 8.

- 3. INSTRUCTIONS TO BIDDERS.** (a) This Notice, the invitation for bids, proposal and letter of award shall, together with all other documents in accordance with Article 101.09 of the Standard Specifications for Road and Bridge Construction, become part of the contract. Bidders are cautioned to read and examine carefully all documents, to make all required inspections, and to inquire or seek explanation of the same prior to submission of a bid.

(b) State law, and, if the work is to be paid wholly or in part with Federal-aid funds, Federal law requires the bidder to make various certifications as a part of the proposal and contract. By execution and submission of the proposal, the bidder makes the certification contained therein. A false or fraudulent certification shall, in addition to all other remedies provided by law, be a breach of contract and may result in termination of the contract.
- 4. AWARD CRITERIA AND REJECTION OF BIDS.** This contract will be awarded to the lowest responsive and responsible bidder considering conformity with the terms and conditions established by the Department in the rules, Invitation for Bids and contract documents. The issuance of plans and proposal forms for bidding based upon a prequalification rating shall not be the sole determinant of responsibility. The Department reserves the right to determine responsibility at the time of award, to reject any or all proposals, to readvertise the proposed improvement, and to waive technicalities.

By Order of the
Illinois Department of Transportation

Omer Osman,
Acting Secretary

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FOR
SUPPLEMENTAL SPECIFICATIONS
AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2021

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

ERRATA Standard Specifications for Road and Bridge Construction (Adopted 4-1-16) (Revised 1-1-21)

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STATE OF ILLINOIS

SPECIAL PROVISIONS

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction," adopted April 1, 2016, the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways," and the "Manual of Test Procedures for Materials" in effect on the date of invitation for bids, and the Supplemental Specifications and Recurring Special Provisions indicated on the Check Sheet included herein which apply to and govern the construction of Various Routes; Section Dist 8 L TS 2021-2; Various Counties; Contract No. 76N61 and in case of conflict with any part or parts of said Specifications, the said Special Provisions shall take precedence and shall govern.

Various Routes
Section Dist 8 L TS 2021-2
Various Counties
Contract No. 76N61

LOCATION OF PROJECT

This project is located in various locations in Region 5/District 8.

DESCRIPTION OF PROJECT

This project will provide operable and properly maintained traffic signals, flashing beacons, highway lighting, navigation/aviation lighting, and data collection stations in Region 5/District 8.

SUBMITTAL OF EEO/LABOR DOCUMENTATION

Effective: April 2016

This work shall be done in accordance with Check Sheets No. 1, 3 and 5, of the IDOT Supplemental Specifications and Recurring Special Provisions and the "Weekly DBE Trucking Reports (BDE)" Special Provision, except as here-in modified.

PAYROLL AND STATEMENT OF COMPLIANCE:

Certified payroll, (FORM SBE 48 OR AN APPROVED FACSIMILE) and the Statement of Compliance, (FORM SBE 348) shall be submitted by two methods:

1. By Mail (United States Postal Service): The ORIGINAL of the certified payroll and the Statement of Compliance for the Prime Contractor and each Subcontractor shall be submitted by mail to the Regional Engineer for District 8.

2. Electronically: Scan both the ORIGINAL of the certified payroll and the Statement of Compliance to the same PDF file, and email to the District at the email address designated by the District EEO Officer.

SBE 48 and SBE 348 forms shall be submitted weekly and will be considered late if received after midnight seven (7) business days after the payroll ending date.

WEEKLY DBE TRUCKING REPORT:

The Weekly DBE Trucking Report, (FORM SBE 723) shall be submitted electronically. Scan the form to a PDF file, and email to the District at the email address designated by the District EEO Officer.

SBE 723 forms shall be submitted weekly and will be considered late if received after midnight ten (10) business days following the reporting period.

MONTHLY LABOR SUMMARY & MONTHLY CONTRACT ACTIVITY REPORTS:

The Monthly Labor Summary Report (MLSR) shall be submitted by one of two methods:

1. For contractors having IDOT contracts valued in the aggregate at \$250,000 or less, the report may be typed or clearly handwritten using Form D8 PI0148. Submit the ORIGINAL report by mail to the Regional Engineer for District Eight. Contractors, also, have the option of using the method #2 outlined below.
2. For contractors having IDOT contracts valued in the aggregate at more than \$250,000, the report must be submitted in a specific "Fixed Length Comma Delimited ASCII Text File Format". This file shall be submitted by e-mail using specific file formatting criteria provided by the District EEO Officer. Contractors must submit a sample text file to District 8 for review at least fourteen (14) days prior to the start of construction.

The Monthly Contract Activity Report (MCAR) may be typed or clearly handwritten using Form D8 PI0149.

The Monthly Labor Summary Report and the Monthly Contract Activity Report shall be submitted concurrently. If the method of transmittal is method #1 above then both the MLSR and the MCAR shall be mailed together in the same envelope. If the method of transmittal is method #2 above then the MCAR shall be scanned to a .pdf file and attached to the email containing the MLSR .txt file.

The MLSR and MCAR must be submitted for each consecutive month, for the duration of the project, and will be considered late if received after midnight ten (10) calendar days following the reporting period.

REQUEST FOR APPROVAL OF SUBCONTRACTOR:

The ORIGINAL and one copy of the Request for Approval of Subcontractor (FORM BC 260A) shall be submitted to the District at the IDOT Preconstruction Conference.

SUBSTANCE ABUSE PREVENTION PROGRAM CERTIFICATION:

The ORIGINAL and one copy of the Substance Abuse Prevention Program Certification (FORM BC 261) shall be submitted to the District at the IDOT Preconstruction Conference.

The Contractor is required to follow submittal procedures as provided by the EEO Officer at the preconstruction conference and to follow all revisions to those procedures as issued thereafter.

If a report is rejected, it is the contractor's responsibility to make required adjustments and/or corrections and resubmit the report. Reports not submitted and accepted within the established timeframes will be considered late.

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

This Special Provision must be included in each subcontract agreement.

ALL HARD COPY FORMS TO BE SUBMITTED TO:

Region 5 Engineer
Illinois Department of Transportation
ATTN: EEO/LABOR OFFICE
1102 Eastport Plaza Drive
Collinsville, IL 62234-6198

Compliance with this Special Provision shall be included in the cost of the contract, and no additional compensation will be allowed for any costs incurred.

TERM OF CONTRACT

This contract shall commence upon the last dated signature of parties or July 1, 2021 (whichever is latest) and terminate September 30, 2022. All issued work orders must be completed by termination date and must be invoiced to IDOT within 45 calendar days of the termination date.

TERMINATION FOR CAUSE

The State may terminate this Contract, in whole or in part, immediately upon notice to the Contractor if it is determined that the actions, or failure to act, of the Contractor, its agents, employees, or subcontractors have caused or reasonably could cause jeopardy to health, safety, or property. If Contractor fails to perform to the State's satisfaction any material requirement of this Contract or is in violation of a material provision of this Contract, the State shall provide written notice to the Contractor requesting that the breach or noncompliance be remedied within the period of time specified in the State's written notice. If the breach or noncompliance is not remedied by that date, the State may either: (a) immediately terminate the Contract without additional written notice or (b) enforce the terms and conditions of the Contract, and in either event seek any available legal or equitable remedies and damages.

ASSIGNMENT OF WORK

Nothing in this contract shall be construed to provide the Contractor the exclusive right to service the Department's electrical facilities in District 8. The Department reserves the right to perform any and all work on these electrical devices with its own forces or to assign another Contractor to work within District 8.

WORK ORDERS

All work to be performed by the Contractor shall be on a call-out basis, normally being initiated with a telephone call or e-mailed message and followed by a written work order authorizing the work. The work order shall show the date and time of issuance, type of facility, location, and a description of the service required or the problem reported.

The Contractor shall be available to respond to calls for service at all times, to include Saturdays, Sundays, and holidays, to correct any malfunction of equipment or effect any temporary emergency repair to damaged equipment resulting from any cause.

The Contractor shall designate at least four (4) responsible representatives of his organization to whom the Department may issue work orders and instructions. The Contractor shall provide the Department with the names and telephone numbers of these representatives. One of these representatives shall be available at all times.

If at the time the service is being performed, it appears that additional work of a minor nature is needed, the Contractor shall proceed with that work. If it appears that the additional work could result in a substantial addition or change to the current work order, the Contractor shall contact the Department before proceeding with the additional work.

The date and time the Contractor's work crew arrives at the location on the work order and the date and time the requested work is completed shall be noted on the Contractor's billing invoice submitted to the Department for payment. If the work is not completed on the first trip, the Contractor shall record on the invoice the arrival and departure dates and times for all subsequent work crews until the work order is completed.



Work Order

Requested By: _____ Date: _____ Time: _____

Assigned To: _____ Received From: _____

- | | | | |
|---|---|--|--------------------------------------|
| <input type="checkbox"/> Traffic Signal | <input type="checkbox"/> Highway Lighting | <input type="checkbox"/> Flashing Beacon | <input type="checkbox"/> Misc. _____ |
| <input type="checkbox"/> Service Call | <input type="checkbox"/> Knock Down | <input type="checkbox"/> Other Work | COD #: _____ |

Location: _____

Problem:

Ref/Accident #: _____ Claim #: _____

Remarks: _____

Completed By: _____ Date/Time Completed: _____

TRAVEL EXPENSE

The Contractor shall not be reimbursed for travel expenses, including "port to port" charges, incurred in fulfilling obligations under this contract. All such charges are to be included and paid for as part of the unit costs contained herein.

RESPONSE TIMES

The Department may establish an expected response time for the requested service at the time a work order is issued. If, however, the Contractor is not given a definitive response time, the following are to apply:

1. Emergency Service Calls – Work crew shall be at the location on the work order within one and one-half hours of notification during normal work hours and within two hours of notification after normal work hours.

Normal work hours, for the purposes of this contract, shall be hours during which the Contractor is not required to pay overtime labor rates.

Emergency Service Calls are defined as all traffic signals at an intersection dark or malfunctioning, dark flashing beacons, knocked down traffic signal or highway lighting standards or controllers, knocked down, damaged flashing beacon installations, or as designated by the Department.

2. Non-Emergency Traffic Signal/Flashing Beacon Calls – respond within 24 hours of issuance.
3. Highway Lighting Outages – respond within five (5) working days of issuance.

Working day, when used in connection with this contract, shall mean any day the offices of the Department are open for normal business.

4. Routine Work Items – complete work within 30 days of the date work order was issued.

It shall be the Contractor's responsibility to promptly notify the Department if, for any reason, the Contractor cannot meet either the response time established at the issuance of the work order, or the response times established herein.

FAILURE TO MEET RESPONSE TIME /LIQUIDATED DAMAGES

Time is of the essence when responding to a work order issued by the Department for an emergency service call or priority Intelligent Transportation system service call. Failure to respond and make repairs in a timely manner will cause public inconvenience, endanger the public safety, and subject the Department to public criticism.

Emergency service calls shall be responded to as designated in the above section. In the event of a breach of the designated response times by the Contractor, the Contractor and Department agree that an amount of actual damage is difficult to ascertain. Therefore the Contractor and the Department agree that in the event the Contractor fails to meet the required response time for an emergency service call, the Contractor shall be liable to the Department for liquidated damages

as specified in the following amounts, which are reasonable and proportionate to the amount of the work order:

Work Order Amount: Liquidated Damages for:

From:	To:	Each 15 Minutes*
\$0	\$ 500	\$ 25
\$ 500	\$1000	\$ 50
\$1000	and over	\$100

* After applicable response time expires

Priority Intelligent Transportation System service calls and routine work items shall be responded to and completed as designated in the above section. In the event of a breach of the designated completion times by the Contractor, the Contractor and Department agree that an amount of actual damage is difficult to ascertain. Therefore the Contractor and the Department agree that in the event the Contractor fails to meet the required completion time for a priority non-emergency service call or routine work item, and the Department has not approved a work time extension, the Contractor shall be liable to the Department for liquidated damages as specified in the following amounts which are reasonable and proportionate to the amount of the work order:

Work Order Amount: Liquidated Damages for:

From:	To:	Each Day*
\$0	\$ 500	\$ 250
\$ 500	\$1000	\$ 500
\$1000	and over	\$1000

* After applicable completion time expires

CONTROL OF WORK

The Department shall conduct frequent inspections of the respective systems and installations to determine if the servicing is being performed by the Contractor promptly, satisfactorily, and in the manner specified in the contract.

The Contractor shall at all times provide a force of qualified personnel sufficient, in the opinion of the Department, to perform the work and specialized operations required and described herein. A working knowledge will be required in basic electrical circuits, solid state circuits, D.C. applications, field testing equipment, and local/national electrical codes. The Department shall be the sole judge as to the qualifications and credentials of the Contractor's personnel.

The Department reserves the right to require the Contractor to remove any employee from his/her assignment on the job site based upon conduct, carelessness, insubordination, incompetence, inefficiency, or any other conditions deemed to be contrary to the best interest of the State of Illinois.

The Department reserves the right to place maximum or minimum limits on the work force and/or equipment utilized by the Contractor to execute a work order. The Contractor's employees shall

be prepared to cooperate with such inspections and shall provide whatever information is requested concerning the work in progress.

Each work day, the Contractor shall provide the Department a schedule of contract work activities for the day. The schedule will show the location, type of work, and an estimate of when each work crew will be at the location on the work order. This information shall be faxed to 618-346-3266 or emailed by 8:30 a.m.

TRAFFIC CONTROL AND PROTECTION

This work includes furnishing, installing, maintaining, replacing, relocating, and removal of work zone traffic control and protection. This work shall be according to Section 701 of the Standard Specifications except as modified by this special provision and the highway standards shown on the plans. Signs and mountings, barricades, and cones used for traffic control and protection are incidental to the contract and will not be paid for separately. For Routine Work Items, traffic control and protection is included in the cost of that item.

The Contractor shall avoid lane closures during peak traffic periods from 6:00 a.m. to 9:00 a.m. and from 3:00 p.m. to 6:00 p.m., Monday through Friday, or at other times of peak traffic volumes, except to respond to an emergency call or upon approval from the Department.

The Contractor shall submit a work zone lane closure request form for work in the areas designated on the form to the Department before 2:00 p.m. the day before the work zone will be implemented. This form may be faxed to 618-346-3266. The Department will review the request and will either approve or reject the request. If the Department rejects the request, the Contractor will not be allowed to implement the work zone. A work zone lane closure request form is not needed when the Contractor is responding to an emergency call or upon approval from the Department.

If the Contractor fails to have all lanes of traffic open during the peak hours for traffic or conducts operations that will impede the flow of traffic during peak hours, a monetary penalty shall be assessed to the Contractor. The penalty shall be \$1000 for each 15-minute period or a portion thereof during the peak hours.

The work zone traffic control and protection for each work location shall be provided as designated by the Engineer. More than one traffic control standard may be indicated for each location. The traffic control highway standards may need to be modified and/or combined to protect all ramps, intersections, and entrances near each work location. Traffic control signs may, also, need to be omitted or added for traffic entering the project site from ramps, intersections, and entrances. No additional compensation will be allowed for these modifications.

Method of Measurement:

Traffic control and protection required under Standards 701201, 701206, 701401, 701406, 701421, 701422, 701446, 701451, 701456, 701601, 701606, and 701701 will be measured for payment on an each basis only when the traffic control and protection applies to isolated stationary work areas and does not involve or is not a part of other protected areas.

A contiguous lateral movement of the work area causing a change in the location of traffic control devices, but not a longitudinal relocation of the work area, will not be considered a new location

or installation. Traffic control for highway standards 701201, 701206, 701401, 701406, 701421, 701422, 701446, 701451, 701456, 701601, 701606, 701701 will be paid for at the contract unit price per EACH for TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

The following chart describes how many times each highway standard is anticipated to be used. This list shall not be considered all inclusive. Traffic control standards required are subject to change based on the location of the work to be done.

STANDARD	ESTIMATED NUMBER OF SETUPS
701201	1
701206	1
701401	1
701406	5
701421	5
701422	5
701446	1
701451	1
701456	1
701601	1
701606	1
701701	5

WORK ZONE LANE CLOSURE REQUEST
 Must be called B. Gielow (618-346-3287) or faxed (618-346-3266) to IDOT by 2:00 P.M. for daytime closure
 (1:00 PM Friday for Sat, Sun, & Mon closures), 11:00 AM for same night
DO NOT COMBINE CLOSURES USE INDIVIDUAL SHEETS FOR EACH HIGHWAY

Date(s) of Closure * Night

>>> * Use tomorrow's date if closure is after 4 P.M. <<<<

⇄ HIGHWAY & DIRECTION ⇄

<input type="checkbox"/> I 55/70	<input type="checkbox"/> EB <input type="checkbox"/> WB	<input type="checkbox"/> POPLAR ST. COMPLEX	<input type="checkbox"/> EB <input type="checkbox"/> WB
<input type="checkbox"/> I 64	<input type="checkbox"/> EB <input type="checkbox"/> WB	<input type="checkbox"/> I 55/70 (Mainline)	<input type="checkbox"/> EB <input type="checkbox"/> WB
<input type="checkbox"/> I 70	<input type="checkbox"/> EB <input type="checkbox"/> WB	<input type="checkbox"/> WB C-D <input type="checkbox"/> EB C-D	
<input type="checkbox"/> I 255	<input type="checkbox"/> NB <input type="checkbox"/> SB	<input type="checkbox"/> Ramp 'G' Main St. to WB C-D	
<input type="checkbox"/> I-270	<input type="checkbox"/> EB <input type="checkbox"/> WB	<input type="checkbox"/> Ramp 'S' WB C-D to Tudor	
		<input type="checkbox"/> Ramp 'D' EB C-D to Tudor	
<input type="checkbox"/> IL 3	<input type="checkbox"/> NB <input type="checkbox"/> SB	<input type="checkbox"/> Ramp 'H' EB C-D to 4 th St.	
		<input type="checkbox"/> Ramp 'A' Tudor West to PSB	
<input type="checkbox"/> IL 15	<input type="checkbox"/> EB <input type="checkbox"/> WB	<input type="checkbox"/> Ramp 'M' North to PSB	
<input type="checkbox"/> MLK Bridge	<input type="checkbox"/> EB <input type="checkbox"/> WB	<input type="checkbox"/> Ramp 'P' North to EB C-D	
		<input type="checkbox"/> Ramp 'O' WB C-D to IL 3 South	
		<input type="checkbox"/> Ramp 'N' EB C-D to IL 3 South	

LOCATION: From or @ To:

LANES: <<Left In. to Right In>> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5/6	SHOULDER <input type="checkbox"/> Left <input type="checkbox"/> Right	RAMPS <input type="checkbox"/> Full <input type="checkbox"/> Exit <input type="checkbox"/> Partial (1/2) <input type="checkbox"/> Entrance
<input type="checkbox"/> MOVING <input type="checkbox"/> STATIONARY		

TIMES: From: A.M. / P.M. To: A.M. / P.M.

From: A.M. / P.M. To: A.M. / P.M.

CLOSURE DESCRIPTION			
	LANE#	M	M
	LANE#	M	M
	LANE#	M	M
	LANE#	M	M

CONTRACTOR/YARD:
 TRAFFIC CONTROL BY:
 SUBMITTED BY:

PHONE NO: FAX NO:
 MOBILE NO: PAGER NO:

Peak Hour Restrictions: Two (2) Lanes shall remain open at all times

I 55/70, I 64, I 270, MLK Bridge	6:00 a to 9:00a WB	3:00p to 6:00p EB
I 255 from I 270 to JB Bridge	6:00a to 9:00a NB&SB	3:00p to 6:00p NB&SB
IL 3 from IL158 to I 270	6:00a to 9:00a NB&SB	3:00p to 6:00p NB&SB
IL 15 from IL 159 to Missouri	6:00a to 9:00a WB	3:00p to 6:00p EB

CONTRACTOR'S REPRESENTATIVE

The Contractor shall designate a service representative to serve as the key contact person for the Department in the execution of this contract. The service representative shall monitor the daily activities of the contract and be available to discuss and respond to any problems that may arise. The services of this person shall be considered incidental to the contract, and no additional compensation shall be allowed.

SUPERVISION OF WORK FORCE

The Contractor shall provide adequate supervision to his work force to ensure that workers and materials are utilized in an efficient manner. This is to include, but not limited to, ensuring that knowledgeable and experienced workers are matched to related servicing tasks, that the proper type of service vehicle is sent for each work order, and that service vehicles are equipped with the parts, materials, and equipment required to complete the work order. No additional allowance will be made for general superintendence of the work force used on this contract.

PARTS AND MATERIALS

The Contractor shall submit unit costs for this contract for parts and materials to be used in the execution of this contract. Parts and Materials supplied by the Contractor, which have a retail value under \$100.00 per unit, shall be considered included in the contract, and no additional compensation is allowed.

If the Contractor encounters a need for a part or material not listed in this contract or is not considered an incidental part, the Contractor shall immediately contact the Department. If this part or material is deemed necessary, the Contractor must supply a billing invoice from the supplier showing actual cost of the item as documentation. The Contractor may add 15 percent mark-up to items not included in the contract.

When such parts and materials are furnished by the Contractor, the material shall be of the best grade of its respective kind, for the intended purpose. The Contractor is expected to make a good faith effort to purchase the parts and materials supplied by them at the lowest possible price. The transportation of the parts and materials to the location on the work order by the Contractor shall be considered incidental to the contract, except for certain knockdown repairs or when a special piece of equipment is required to properly transport the item(s).

Parts and materials may be furnished by the Department when available and practical, unless otherwise specified by this contract. The transportation of Department supplied parts and materials to the location on the work order by the Contractor shall be considered incidental to the contract. The Department, at its discretion, may increase or decrease the quantities or kinds of materials supplied to the Contractor. In order to expedite the repair of an installation, the Department reserves the right to deliver parts, materials, and equipment directly to the Contractor's shop or to the job site.

ELECTRIC CABLE ASSEMBLY

Description: This item consists of providing a multi-conductor power cable direct buried in trench or installed in conduit as specified herein, as shown on the Plans, and as directed by the Engineer.

General: The cable shall be an assembly of insulated power conductors, plus an insulated ground wire cabled according to UL 1277 with fillers and binder tape and with an overall jacket. The conductors shall be rated 600 volts and be UL listed with a 194 degrees Fahrenheit (90 degrees Celsius) continuous rating in dry and wet locations. The cable assembly shall be UL listed for direct burial, wet and dry locations and outdoors in cable trays where sunlight resistance rating is required.

All conductors in the assembly may be either coated (tinned), or uncoated copper, except all conductors of a given cable type for the project shall be of the same type and be according to Article 1066.02. Uncoated conductors shall be according to ASTM B 3, UL Standard 44, ICEA S-95-658, NEMA No. WC 70, and the requirements of the National Electric Code. All conductors shall be stranded. Stranding shall meet ASTM B 8, ICEA S-59-658, NEMA No. WC-70, and UL Standard 44.

The insulation shall be cross-linked polyethylene UL listed Type XHHW-2 (XLP) and shall meet or exceed the requirements of ICEA S-95-658, NEMA Standard No. WC-70, and UL Standard 44. The insulation shall have a minimum thickness of 45 mils. The minimum insulation thickness at any point shall not be less than 90 percent of the average insulation thickness.

The insulation shall be color coded according to Article 1076.01(c), Paragraph 3. The cable shall have a polyvinyl chloride (PVC) jacket applied over the assembly. The jacket shall have a minimum thickness of 80 mils and meet or exceed the sunlight resistant requirements of UL Standard 1277. The jacket shall be marked by means of surface ink printing indicating the manufacturer, number of conductors, size, voltage rating, and required UL information.

Manufacturer's information submitted for approval shall include product and other data sufficient to verify compliance with all specified requirements. The cable shall be shipped to the site in wood lagged reels or other equivalent means as approved by the Engineer.

Installation: The multi-conductor power cable shall be installed according to Article 870.03. Splicing and termination of the electric cable shall be according to Article 1066.06. Underground cable marking tape shall be provided according to Article 1066.05.

Method of Measurement: The electric cable assembly will be measured for payment according Article 817.04.

Method of Payment: This work will be paid for at the Contract unit price per foot for ELECTRIC CABLE ASSEMBLY, IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 2 AND NO. 4 or ELECTRIC CABLE ASSEMBLY, IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 2 AND NO. 4 or ELECTRIC CABLE ASSEMBLY, IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6 or ELECTRIC CABLE ASSEMBLY, IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8 or ELECTRIC CABLE ASSEMBLY, IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6 or ELECTRIC CABLE ASSEMBLY, IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8.

Description. This work shall consist of furnishing and installing stainless steel conduit, fittings. Pay items: 87000240, 87000405, 87000775, 87000885, 87005275, 87005385.

EQUIPMENT

The Contractor shall submit unit costs for this contract for equipment to be used in the execution of this contract.

If the Department authorizes the Contractor to use a piece of machinery or equipment that does not have a contract unit price and is not considered incidental to the contract, payment shall be made in accordance with Article 109.04(b)(4) of the Standard Specifications for Road and Bridge Construction.

All Contractor work crews shall be equipped with a cellular telephone to facilitate communications with work crews and to verify operating conditions of essential electrical facilities. If more than one vehicle is being used for a work order, only the crew leader will be required to be equipped with a cellular telephone. The Contractor shall provide the Department with the cellular telephone number being used in the execution of each work order. The Department reserves the rights to use the cellular telephone to contact a Contractor's work crew for their location and to request a report on the status of a work order. All costs associated with this requirement shall be included in the contract.

The time allowed for the equipment pay item included in this contract shall be actual time the equipment is onsite at the work location (while work is underway). Equipment usage will be measured to the nearest 0.25 hour for each piece of equipment approved for use on the applicable work order. Equipment rates include (but are not limited to) the cost of fuel, oil, lubrication, supplies, small tools, necessary attachments, repairs, overhaul and maintenance of any kind, depreciation, storage, overhead, profits, insurance, and all incidentals.

This work will be paid for at the contract unit price per hour for PICK-UP TRUCK; TRUCK CRANE; DIGGER DERRICK, BUCKET TRUCK/VAN FOR TRAFFIC SIGNALS; BUCKET TRUCK FOR HIGHWAY LIGHTING; or POLE TRAILER; FLATBED TRAILER.

JOURNEYMAN ELECTRICIAN

This unit shall be eligible for payment only when labor is performed onsite at appropriate work location. Labor will be measured to the nearest 0.25 hour for each JOURNEYMAN ELECTRICIAN approved for use on the applicable work order. Labor rates for JOURNEYMAN ELECTRICIAN shall be inclusive of (but not limited to) all regular and premium time, insurance, benefits, overhead, and profit.

The JOURNEYMAN ELECTRICIAN shall furnish all labor, tools, equipment, and other incidentals necessary or convenient to the successful completion of work orders and the carrying out of all duties and obligations imposed by the contract. Also, the JOURNEYMAN ELECTRICIAN shall be required to carry a cellular telephone to facilitate communications with work crews and to verify operation conditions of essential Intelligent Transportations System facilities. The Department reserves the rights to use the cellular telephone to contact the JOURNEYMAN ELECTRICIAN for his or her location and to request a report on the status of a work order. No additional compensation for cellular telephone expenses will be allowed.

This work will be paid for at the contract unit price per hour for JOURNEYMAN ELECTRICIAN.

APPRENTICE ELECTRICIAN

This unit shall be eligible for payment only when labor is performed onsite at appropriate work location. Labor will be measured to the nearest 0.25 hour for each APPRENTICE ELECTRICIAN approved for use on the applicable work order. Labor rates for APPRENTICE ELECTRICIAN shall be inclusive of (but not limited to) all regular and premium time, insurance, benefits, overhead, and profit.

APPRENTICE ELECTRICIANS utilized as part of this contract must follow the criteria listed below:

1. All apprentice electricians shall work within the guidelines of the Apprentice Program.
2. Apprentice electricians may only be utilized for routine maintenance tasks included but not limited to traffic camera lens cleaning, filter cleaning and/or replacement, light post inspection and repair, and other various duties associated with routine maintenance.
3. Apprentice electricians will be allowed to respond to emergency calls to assist a journeyman electrician when needed.
4. Apprentice electricians must be directly supervised at all times by a qualified vendor representative.
5. The Department reserves the right to limit the number of apprentices used in execution of this contract.
6. The Department reserves the right to restrict work performed for this contract by apprentice electricians.

The APPRENTICE ELECTRICIAN shall furnish all labor, tools, equipment, and other incidentals necessary or convenient to the successful completion of work orders and the carrying out of all duties and obligations imposed by the contract unless already provided by the JOURNEYMAN ELECTRICIAN.

This work will be paid for at the contract unit price per hour for APPRENTICE ELECTRICIAN.

LABOR

This unit shall be eligible for payment only when labor is performed onsite at appropriate work location. Labor will be measured to the nearest 0.25 hour for each person other than JOURNEYMAN ELECTRICIAN or APPRENTICE ELECTRICIAN (normally a Laborer) approved for use on the applicable work order on items other than routine work items. Labor rates shall be inclusive of (but not limited to) all regular and premium time, insurance, benefits, overhead, and profit.

The Laborer shall furnish all labor, tools, equipment, and other incidentals necessary or convenient to the successful completion of work orders and the carrying out of all duties and obligations imposed by the contract. Also, the Laborer shall be required to carry a cellular telephone to facilitate communications with work crews. The Department reserves the rights to use the cellular telephone to contact the Laborer for his or her location and to request a report on the status of a work order. No additional compensation for cellular telephone expenses will be allowed.

This work will be paid for at the contract unit price per hour for LABOR.

ARROWBOARDS AND ATTENUATORS

The arrowboards shall meet the requirements of Articles 701.15(i) and 1106.02. The attenuators shall meet the requirements of Articles 701.15(h) and 1106.02.

The time allowed shall be the actual time the arrowboard or attenuator is in use at the work location. Labor will be measured to the nearest 0.25 hour for each arrowboard and/or attenuator approved for use on the applicable work order.

This work will be paid for at the contract unit price per hour for ARROWBOARD (TRAILER MOUNTED) or ATTENUATOR, CRASH (TRUCK MOUNTED).

ROUTINE WORK ITEMS

The following are considered routine work items and are detailed as described in their sections: LED LAMP MODULE REPLACEMENT, DETECTOR LOOP, SPECIAL TRAFFIC SIGNAL RELAMPING, TRAFFIC SIGNAL LAMP REPLACEMENT FLASHING BEACON INSPECTION TOWER LIGHTING INSPECTION, REPLACE SERVICE INSTALLATION, COMPLETE REPAIR TRAFFIC SIGNAL KNOCKDOWN REPAIR FLASHING BEACON KNOCKDOWN REPAIR HIGHWAY LIGHT POLE KNOCKDOWN, REPLACE HIGHWAY LIGHT POLE BREAKAWAY DEVICE, COUPLINGS REPLACE HIGHWAY LIGHT POLE BREAKAWAY DEVICE, TRANSFORMER BASE REPLACE TRAFFIC SIGNAL POST BASE ASSEMBLY

LED LAMP MODULE REPLACEMENT

This work shall be in accordance with Sections 880, 895, and 1078 of the Standard Specifications except as modified herein.

The Contractor shall remove non-functioning LED modules from an existing traffic signal head and furnish and install new LED lamp modules for each indication as requested by the Department.

The Contractor shall recycle all LED modules at a certified electronics recycling facility.

The LED lamp module will be replaced in kind for whatever color and movement is being replaced (R, Y, G, Ped, Walk, Don't Walk, etc.).

All labor and equipment required to complete this work shall be included in the contract unit price each for LED LAMP MODULE REPLACEMENT.

Basis of Payment: This work will be paid for at the contract unit price per each for LED LAMP MODULE REPLACEMENT.

DETECTOR LOOP, SPECIAL

This work shall consist of furnishing and installing a Type I detector loop in the pavement or resealing exposed detector loop saw slots where the original sealer had deteriorated or is missing, at a location designated in a work order. The unit price shall be all inclusive of labor, equipment, materials, transportation of workmen and materials, loop testing and quality checks, and temporary traffic control to properly complete the work item.

The Type I detector loop shall be installed in accordance with Section 886 of the Standard Specifications for Road and Bridge Construction. Splicing requirements are governed by the applicable portions of Article 873.03. The installation shall, also, comply with Standards 886001 and 886006. The Department will lay out the loop and specify the number of turns of loop wire required for each loop. The Department will determine the number and location of any cored holes for pavement joints or cracks.

Where the existing loop wire is exposed, it shall be reinserted into the saw slot and held in place as necessary with appropriate retainers. Any debris, foreign matter, or loose sealant shall be removed from the saw slot before applying new sealer. The sealer shall meet the requirements of Section 1079 of the Standard Specifications for Road and Bridge Construction. Installation requirements shall be as described in Article 886.04 of the Standard Specifications for Road and Bridge Construction. The areas to be resealed will be marked out by the Department.

This work will be paid for at the contract unit price per foot of DETECTOR LOOP, SPECIAL.

TRAFFIC SIGNAL RELAMPING

This work shall consist of cleaning and relamping all traffic and pedestrian signal indications and fiber optic-type lighted signs at a designated intersection or location listed in a work order. The unit price shall be all inclusive of labor, equipment, materials (lamps, cleaner, rags, etc.) transportation of workmen and materials, and temporary traffic control as required to properly complete the work item.

The Contractor shall remove the old lamp and install a new lamp in all signal sections and lighted signs according to the following schedule:

8" traffic signal / 9" pedestrian signal – 69 watt, long life lamp as approved by the Department;

12" pedestrian signal / 12" arrow section – 116 watt, long life lamp as approved by the Department;

12" traffic signal (circular) – 135 watt, long life lamp as approved by the Department;

3-M signals – GE 150 watt PAR;

dual indication signal sections – EPT quartz, 43 watt @ 10.8 volt;

LED traffic and pedestrian signal sections shall be cleaned/inspected and reinstalled;

lighted signs – EPT quartz, 43 watt @ 10.8 volt lamps.

The Contractor shall dispose of all replaced signal lamps. The Contractor shall, as a part of this item, clean the reflector and the inside and outside of each lens.

The complete signal head and related mounting hardware shall be inspected to ensure that the signal is properly aimed, and that all components are intact and in good condition. The Contractor

shall repair any minor deficiencies found during the inspection. Such deficiencies could involve lenses, lamp sockets, reflectors, visors, lens doors, louvers, backplates and signal mounting hardware. Lenses that are damaged are to be replaced. This includes lenses that have discolored areas, holes, cracks and arrow and pedestrian lenses that are peeling, and light is visible in areas other than the prescribed arrow or pedestrian message.

In addition to relamping the lighted sign, the Contractor shall clean the interior and face of the lighted sign and conduct a thorough inspection of the installation. This inspection is to verify the proper operation and aiming of the sign and to assure that the sign door fasteners and mounting hardware are intact and in good condition.

So these minor deficiencies can be repaired efficiently, the Contractor shall equip service vehicles with a supply of the following parts; signal lenses, lamp sockets, visors, signal doors and accessories, various hardware necessary to repair or reattach backplates, and signal bracket and mast arm mounting bracket hardware. If the part or material is not considered incidental to the contract, the Contractor shall be paid for any parts and materials used to correct these deficiencies with the pay items listed in this contract or as detailed in the Parts and Materials Special Provision. All labor and equipment expenses incurred to correct the deficiencies shall be included in the cost of TRAFFIC SIGNAL RELAMPING, and no additional compensation shall be made.

If the Contractor encounters damage to a signal component which is not included in the required parts inventory, is not considered an incidental part, or which involves work beyond the scope of this pay item, the Contractor shall immediately contact the Department.

This work shall be paid for at the contract unit price per each for TRAFFIC SIGNAL RELAMPING.

TRAFFIC SIGNAL LAMP REPLACEMENT

This work shall consist of replacing all non-functioning lamp(s) in traffic or pedestrian signal indications and fiber optic-type lighted signs at a designated intersection listed in a work order. This routine pay item shall be used to compensate the Contractor for all costs associated with the replacement of the non-functioning lamp(s). The unit price shall be inclusive of labor, materials, equipment, transportation of workers and materials, and temporary traffic control required to properly complete the work item. This pay item shall include all travel expenses involved in completion of the traffic signal lamp(s) replacement at a designated intersection.

The Contractor shall respond within one working day of notification of non-functioning lamp(s) at a designated intersection unless the Department deems the lamp(s) replacement an emergency. The Contractor shall respond to the emergency lamp(s) replacement within two hours of notification.

The Contractor shall remove the non-functioning lamp and install a new lamp in the signal according to the following schedule:

8" traffic signal / 9" pedestrian signal – 69 watt, long life lamp as approved by the Department;

12" pedestrian signal / 12" arrow section – 116 watt, long life lamp as approved by the Department;

12" traffic signal (circular) – 135 watt, long life lamp as approved by the Department;

3-M signals – GE 150 watt PAR;

dual indication signal sections – EPT quartz,

43 watt @ 10.8 volt; lighted signs – EPT quartz,

43 watt @ 10.8 volt lamps.

The Contractor shall dispose of all non-functioning lamps.

The complete signal head and related mounting hardware shall be inspected to ensure that the signal is properly aimed and that all components are intact and in good condition. This inspection is to verify the proper operation and aiming of the lighted sign and to assure that signal and sign door fasteners and mounting hardware are intact and in good condition. The Contractor shall repair any minor deficiencies found during the inspection. Such deficiencies could involve lenses, lamp sockets, reflectors, visors, lens doors, louvers, backplates, and signal mounting hardware. Lenses that are damaged are to be replaced. This includes lenses that have discolored areas, holes, cracks, and arrow and pedestrian lenses that are peeling and light is visible in areas other than the prescribed arrow or pedestrian message.

So these minor deficiencies can be repaired efficiently, the Contractor shall equip service vehicles with a supply of the following parts; signal lenses, lamp sockets, visors, signal doors and accessories, various hardware necessary to repair or reattach backplates, and signal bracket and mast arm mounting bracket hardware. If the part or material is not considered incidental to the contract, the Contractor shall be paid for any parts and materials used to correct these deficiencies with the pay items listed in this contract or as detailed in the Parts and Materials Special Provision. All labor and equipment expenses incurred to correct the deficiencies shall be included in the cost of TRAFFIC SIGNAL LAMP REPLACEMENT, and no additional compensation shall be made.

If the Contractor encounters damage to a signal component which is not included in the required parts inventory, is not considered an incidental part, or which involves work beyond the scope of this pay item, the Contractor shall immediately contact the Department.

This work shall be paid for at the contract unit price per each for TRAFFIC SIGNAL LAMP REPLACEMENT.

FLASHING BEACON INSPECTION

This work shall consist of inspecting, cleaning, and relamping a flashing beacon installation(s) at a designated intersection, or locations listed in a work order. The flashing beacon installation could consist of a single or multiple beacon sections. The unit price shall be all inclusive of labor, equipment, materials (lamps, cleaner, rags, etc.), transportation of workmen and materials, and temporary traffic control as required to properly complete the work item.

The Contractor shall remove the old lamp and install a new lamp for all beacon sections according to the following schedule: 8" signal section – 69 watt, long life lamp as approved by the Department; 12" signal section – 135 watt, long life lamp as approved by the Department; and LED signal sections shall be cleaned/inspected and reinstalled. The Contractor shall dispose of all replaced signal lamps.

In addition to the cleaning and relamping, the Contractor shall conduct a thorough inspection of the installation. This inspection is to certify the proper operation and aiming of the beacons and to assure that fasteners, conduits, clamps, supporting cables, and accessories are intact and in good condition. The Contractor shall examine all pole or post supports and confirm that they are sound. The service installation shall, also, be inspected for damaged or deteriorating components.

The Contractor will be expected to replace any defective parts that are found during the inspection and make minor repairs as needed. In order to repair any minor deficiencies found, the Contractor shall equip service vehicles with a supply of the following parts; signal lenses, lamp sockets, visors, signal doors and accessories, and various hardware necessary to repair conduit attachments. If the part or material is not considered incidental to the contract, the Contractor shall be paid for any parts and materials used to correct these deficiencies with the pay items listed in this contract or as detailed in the Parts and Materials Special Provision. All labor and equipment expenses incurred to correct the deficiencies shall be included in the cost of FLASHING BEACON INSPECTION, and no additional compensation shall be made.

If the Contractor encounters damage to a flashing beacon component which is not included in the required parts inventory, is not considered an incidental part, or which involves work beyond the scope of this pay item, the Contractor shall immediately contact the Department.

This work shall be paid for at the contract unit price per each for FLASHING BEACON INSPECTION.

TOWER LIGHTING INSPECTION

This work shall consist of inspecting a tower lighting installation at a designated location, listed in a work order.

The Contractor shall lower the lighting ring and fully inspect each tower for: proper operation of the lowering and lifting devices, cable (support, guide, and power) deterioration, lamp illumination, and any other items needing maintenance attention or repair. A maintenance inspection checklist will be provided by the Department. This checklist requires a complete inspection of the tower facility, lubrication of moving parts, and cleaning of the luminaire refractors. A checklist form must be completed for each tower inspection, attached to the billing invoice, and returned to the Department.

The Contractor will be expected to replace any defective parts that are found during the inspection and make minor repairs as needed. In order to repair any minor deficiencies found, the Contractor shall equip service vehicles with a supply of the following parts: lamps, starter boards, fuses, and ballast kits.

This work will be paid for at the contract unit price per each for TOWER LIGHTING INSPECTION.

REPLACE SERVICE INSTALLATION, COMPLETE

This work shall consist of the replacement of an electrical service installation at a location designated in a work order.

This work shall consist of the removal and disposal of the existing service installation and complete replacement on an existing wood pole in accordance with Section 805 of the Standard Specifications for Road and Bridge Construction.

This work will be paid for at the contract unit price per each for REPLACE SERVICE INSTALLATION, COMPLETE.

REPAIR TRAFFIC SIGNAL KNOCKDOWN

This work consists of repairing a traffic signal knockdown at a location designated in a work order. This routine pay item shall be used to compensate the Contractor for all costs associated with the exception for the cost of all the parts and materials required to complete the work item. The unit price shall be inclusive of labor, equipment, transportation of workers and materials, and temporary traffic control required to properly complete the work item. This pay item shall include all travel expenses involved in completing the repair.

Should extreme weather conditions or the need for an uncommon repair part or material not permit the knockdown to be repaired during the initial response, the Contractor shall install a Uni-Safe box to isolate the electrical cables and cover the anchor bolts.

The parts and materials required to complete the repair shall be charged as detailed in the Parts and Materials provision. The required parts and materials shall be itemized on the Contractor's billing invoice. If a part is provided by the Department, the Contractor shall note this on the invoice.

Regardless of conditions, all traffic signal knockdowns shall be re-erected within 24 hours of notification, inclusive of weekends and holidays. The Contractor shall respond within the specified time, as detailed in the provision Response Times, to clear all electrical circuits, remove all knockdown debris, and insure that the intersection is returned to normal operation, if possible, or placed in the flashing mode. If electric power to the intersection is lost as a result of the knockdown, the Contractor shall install at least one STOP sign on each intersection approach. If the Contractor is unable to complete the knockdown repair within these time limits, the Contractor shall notify the Department.

This pay item shall be used for the repair of all traffic signal related knockdowns which shall include signals that are post, mast arm, span-wire or sign truss mounted, and traffic signal controllers and service installations.

This work will be paid for at the contract unit price per each for REPAIR TRAFFIC SIGNAL KNOCKDOWN.

REPAIR FLASHING BEACON KNOCKDOWN

This work consists of repairing a flashing beacon knockdown at a location designated in a work order. This routine pay item shall be used to compensate the Contractor for all costs associated with the exception for the cost of all the parts and materials required to complete the work item.

The unit price shall be inclusive of labor, equipment, transportation of workers and materials, and temporary traffic control required to properly complete the work item. This pay item shall include all travel expenses involved in completing the repair.

Flashing beacon knockdowns shall be repaired on site at the time of the Contractor's initial response if it is possible to reestablish the beacon support at that time. If the beacon was mounted on a wood signpost, the Contractor shall re-erect the flashing beacon temporarily, if possible, and notify the Department the post needs to be replaced.

The parts and materials required to complete the repair shall be charged as detailed in the Parts and Materials provision. The required parts and materials shall be itemized on the Contractor's

billing invoice. If a part is provided by the Department, the Contractor shall note this on the invoice.

All flashing beacon knockdowns are to be considered emergency service calls. Knockdown repairs shall be completed as soon as possible, regardless of weekends and holidays. The Contractor shall respond within the specified time, as detailed in the Response Times provision, to clear the electrical circuit, remove knockdown debris, and complete the repair, or re-erect the beacon temporarily. If a regulatory sign is knocked down with the beacon, the Contractor shall re-erect the sign. If the sign associated with the flashing beacon is severely damaged, the Contractor shall notify the Department. If the Contractor is unable to complete the knockdown repair within these guidelines, the Contractor shall notify the Department.

This work will be paid for at the contract unit price per each for REPAIR FLASHING BEACON KNOCKDOWN.

REPAIR HIGHWAY LIGHT POLE KNOCKDOWN

This work consists of repairing a highway light pole knockdown at a location designated in a work order. This routine pay item shall be used to compensate the Contractor for all costs associated with the exception for the cost of all the parts and materials required to complete the work item. The unit price shall be inclusive of labor, equipment, transportation of workers and materials, and temporary traffic control required to properly complete the work item. This pay item shall include all travel expenses involved in completing the repair.

The Contractor shall respond within the specified time, as detailed in the Provision Response Times, to clear the electrical circuit, install a Uni-Safe box to isolate the electrical cables, and remove any knockdown debris from the roadway and shoulder. Knockdown poles shall not be left on the roadway right of way while the Contractor is awaiting parts to complete the repair. If the initial knockdown callout is at night, or on a weekend or holiday, the Contractor may wait until the next working day to clear the pole from the right of way.

The parts and materials required to complete the repair shall be charged as detailed in the Parts and Materials provision. The required parts and materials shall be itemized on the Contractor's invoice. If a part is provided by the Department, the Contractor shall note this on the invoice. The Contractor shall not be eligible for any travel time reimbursement.

The Contractor is expected to complete the repair within five (5) working days. The Contractor shall be responsible for notifying the Department if the requested knockdown repair cannot be completed within the allotted time.

This pay item shall be used for the repair of all highway light pole related knockdowns including poles mounted on a foundation, median wall, or bridge parapet and lighting controllers and service installations.

This work will be paid for at the contract unit price per each for REPAIR LIGHT POLE KNOCKDOWN.

REPLACE HIGHWAY LIGHT POLE BREAKAWAY DEVICE, COUPLINGS

This work shall consist of the replacement of a highway light pole breakaway device, couplings at a location designated in a work order. This routine pay item shall be used to compensate the Contractor for all costs associated with the exception for the cost of all the parts and materials required to complete the work item. The unit price shall be inclusive of labor, equipment, transportation of workers and materials, and temporary traffic control required to properly complete the work item. This pay item shall include all travel expenses involved in completing the repair.

The parts and materials required to complete the repair shall be charged as detailed in the Parts and Materials provision. The required parts and materials shall be itemized on the Contractor's billing invoice. If a part is provided by the Department, the Contractor shall note this on the invoice.

This work shall consist of the removal and disposal of the existing breakaway and complete replacement in accordance with Section 838 of the Standard Specifications for Road and Bridge Construction.

This work will be paid for at the contract unit price per each for REPLACE HIGHWAY LIGHT POLE BREAKAWAY DEVICE, COUPLINGS.

REPLACE HIGHWAY LIGHT POLE BREAKAWAY DEVICE, TRANSFORMER BASE

This work shall consist of the replacement of a highway light pole breakaway device, transformer base at a location designated in a work order. This routine pay item shall be used to compensate the Contractor for all costs associated with the exception for the cost of all the parts and materials required to complete the work item. The unit price shall be inclusive of labor, equipment, transportation of workers and materials, and temporary traffic control required to properly complete the work item. This pay item shall include all travel expenses involved in completing the repair.

The parts and materials required to complete the repair shall be charged as detailed in the Parts and Materials provision. The required parts and materials shall be itemized on the Contractor's billing invoice. If a part is provided by the Department, the Contractor shall note this on the invoice.

This work shall consist of the removal and disposal of the existing breakaway and complete replacement in accordance with Section 838 of the Standard Specifications for Road and Bridge Construction.

This work will be paid for at the contract unit price per each for REPLACE HIGHWAY LIGHT POLE BREAKAWAY DEVICE, TRANSFORMER BASE.

REPLACE TRAFFIC SIGNAL POST BASE ASSEMBLY

This work shall consist of the replacement of a traffic signal post base assembly at a location designated in a work order. This routine pay item shall be used to compensate the Contractor for all costs associated with the exception for the cost of all the parts and materials required to complete the work item. The unit price shall be inclusive of labor, equipment, transportation of workers and materials, and temporary traffic control required to properly complete the work item. This pay item shall include all travel expenses involved in completing the repair.

The parts and materials required to complete the repair shall be charged as detailed in the Parts and Materials provision. The required parts and materials shall be itemized on the Contractor's billing invoice. If a part is provided by the Department, the Contractor shall note this on the invoice.

This work shall consist of the removal and disposal of the existing base assembly and complete replacement in accordance with Section 875 of the Standard Specifications for Road and Bridge Construction.

This work will be paid for at the contract unit price per each for REPLACE TRAFFIC SIGNAL POST BASE ASSEMBLY.

KNOCKDOWN DEBRIS

The debris from damaged traffic signals, flashing beacons, and highway light poles shall remain the property of the Department. The Contractor shall transport knockdown debris to the Department's facility at 9601 St. Clair Ave., Fairview Heights. This debris can be delivered after each knockdown repair or held at the Contractor's shop and delivered periodically to the Department's facility. The Contractor should notify the Department when knockdown debris is to be delivered, so personnel will be available to direct unloading.

Concrete rubble, broken glass, and other material of this type shall be disposed of by the Contractor at an approved site off of the State Right of Way.

This requirement shall be considered included in this contract, and no additional compensation shall be allowed.

KNOCKDOWN DOCUMENTATION

The Contractor shall provide the Department with photographs of all on site knockdown debris to document the damage for third party claims. The photographs may be Polaroid-type instant pictures or digital images and should have the number of views necessary to properly detail the motorist caused damage. Three or more photographs are required for adequate documentation. Pole numbers or other identifying information should be included in the photographs as much as possible. The costs incurred by the Contractor to have the cameras and film available to their work crews to provide this documentation to the Department shall be considered included in the routine work item to repair the knockdown, and no additional compensation shall be allowed.

ANCHOR BOLT REPAIRS

Repairs to broken anchor bolts shall be made using rod couplings. The concrete around the broken anchor bolt shall be core drilled and removed to the depth necessary to accommodate the rod coupling. After the coupling is installed, the foundation shall be repaired with a suitable cement grout mixture. Anchor bolts shall not be welded. This work will be paid for as stated in the Parts and Materials provisions.

TEST EQUIPMENT

The Contractor shall provide all of his own testing instruments, as required, to service the electrical facilities of the Department.

The Contractor will be provided a copy of the procedure to be used to determine the integrity of inductive loop detectors. This procedure requires the Contractor to have proper electronic instruments to test the resistance, inductance, resistance to ground, and quality factor of a loop and lead-in circuit, as per Article 801.13 of the Standard Specification for Road and Bridge Construction.

When testing Intelligent Transportation Systems equipment, the Contractor shall use the established procedures as defined by the manufacturer or standard practice to determine the integrity of equipment. The Department shall be provided with the testing procedures used upon request.

All required test equipment shall be considered incidental to the contract, and no additional compensation will be allowed.

SMALL TOOLS

Individual pieces of equipment not listed in the Department's Schedule of Average Annual Equipment Ownership Expense booklet and having a replacement value of \$1,000.00 or less shall be considered to be tools or small equipment, and no payment will be made for their use on this contract.

CONTROLLER SERVICE LOGS

Entries in service logs in traffic signal controller cabinets are to be made by the Contractor at the time any controller related servicing is performed. The date and time entered in the service log shall document when the serviceman arrives to begin work in the controller cabinet.

TRAFFIC SIGNS

When repairing a damaged traffic signal, flashing beacon, or highway lighting standard, the Contractor shall reinstall any traffic signs that were attached to the standard. If these signs are damaged to the extent they cannot be reused, the Contractor shall immediately notify the Department, so that replacement signs can be installed.

NUMBERING SYSTEM

The Contractor shall maintain the Department's traffic signal and highway lighting numbering systems on all knockdowns. These numbers are to be used on all reports, correspondence, and billing invoices.

WAIVER OF LIEN

The Department may, at its discretion, require Waivers of Lien for materials or authorized subcontracted work prior to payment for any goods or services.

PROTECTIVE GEAR AND CLOTHING

The Contractor shall be responsible for providing their workmen any necessary protective gear or clothing which may be required in the execution of a work order. Such gear or clothing could include, but not be limited to, dust masks, breathing apparatus, electrically insulated gloves, protective gloves, and clothing for chemicals, etc. The cost to provide protective gear or clothing shall not be paid for separately but shall be considered included in this contract.

CONFINED SPACE ENTRY

The enclosed areas of bridge structures and pylons are considered to be confined spaces. The Contractor shall comply with all OSHA requirements relative to confined space entry. An oxygen deficient, toxic, explosive, or flammable atmosphere may exist within this confined space. Atmosphere testing shall be conducted prior to entry and continuously while employees are working within a confined space. The Contractor shall inform the Department of who will serve as the rescue responder in an emergency, and what system will be used to notify the responder that an emergency exists. Compliance with this Provision shall be considered included in this contract, and no additional compensation will be allowed.

INVOICES

The amount shown on each invoice shall be in accordance with the rates established in the Summary of Quantities section. Any invoices/bills issued by the Contractor to the Department pursuant to this contract shall be sent to the following address:

Illinois Department of Transportation District 8 / Bureau of Administration Attn: Christine Trucano
1102 Eastport Plaza Drive Collinsville, IL 62234

Separate billing invoices shall be submitted by the Contractor for each individual work order. The Department will provide the Contractor a computer software database that shall be used by the Contractor to prepare the billing invoices.

By the 5th working day of each month, the Contractor shall submit the actual invoice, or an accurate estimate of cost for the work order, for services performed or assigned during the preceding month. The Contractor shall submit an invoice for each work order within two (2) weeks after completion of the work.

The Contractor shall submit two (2) copies of each invoice. All invoices shall contain the location of service, work order number, date work occurred, and if applicable, a detail of the amount and cost of labor, equipment and materials (either Department or Contractor supplied) utilized to complete the requested service, a description of the service performed, and the total cost of the work. For invoices requiring itemization, a subtotal for labor, equipment, and materials shall be shown. A copy of the work order shall accompany each invoice.

When apprentice electricians perform work for this contract, the Contractor shall submit the apprentice electricians on the job training hours and the corresponding work order(s) with the invoice(s).

Final payment will not be made until all services are completed and accepted by the Department.

For Routine Work Items the invoice shall, also, include the unit price for the routine work item, plus detailed information about any deficiencies which were found and corrected while performing the routine work item, and a listing and price for parts used other than those required by the routine work item description.

For Non-Routine Work (Regular Work Orders), labor and equipment usage shall be billed to the nearest quarter hour.

The Contractor shall, also, attach a copy of the invoice showing their cost for any parts or materials with a unit cost of \$100.00 or more. See the Parts and Materials provision of this contract for the definition of incidental parts and materials.

The Department shares the maintenance responsibilities of some traffic signal installations in this service area with municipalities. The Contractor shall send all invoices to the Department first. The Department will pay its share of the invoice and forward it to the respective municipality. The remaining portion of the invoice will then be paid to the Contractor by the municipality.

SOFTWARE

The Department will provide the Contractor a computer software database that the Contractor shall use to prepare billing invoices for work done under this contract. This software is intended to standardize the billing format and provide the Department with electronic record keeping capabilities for electrical maintenance activities.

SCHEDULE OF WORK

Any work performed on State premises shall be done during the hours designated by the State and performed in a manner that does not interfere with the State and its personnel.

WARRANTIES FOR SUPPLIES AND SERVICES

Contractor warrants that the supplies furnished under this Contract (a) will conform to the State's manufacturing standards, specifications, drawing, samples, or descriptions furnished by the State, including but not limited to all specifications attached as exhibits hereto, (b) will be merchantable, of good quality and workmanship, free from defects for a period of twelve months or longer if specified in writing, and fit and sufficient for the intended use (c) will comply with all

federal and state laws, regulations, and ordinances pertaining to the manufacturing, packing, labeling, sale, and delivery of the supplies (d) will be of good title and be free and clear of all liens and encumbrances and (e) will not infringe any patent, copyright, or other intellectual property rights of any third party. Contractor agrees to reimburse the State for any losses, costs, damages, or expenses, including without limitations reasonable attorney's fees and expenses, arising from failure of the supplies to meet such warranties. Contractor shall ensure that all manufacturers' warranties are transferred to the State and shall provide a copy of the warranty. These warranties shall be in addition to all other warranties, express, implied, or statutory, and shall survive the State's payment, acceptance, inspection, or failure to inspect the supplies.

Contractor warrants that all services will be performed in a good and professional manner to industry standards by trained and competent personnel. Contractor shall monitor performances of each individual and shall reassign immediately any individual who is not performing to professional standards: who is not efficient or effective in performing the work of the contract, who is disruptive or not respectful of others in the workplace, or who in any way violates the Contract or State policies.

EXPENSES

Unless otherwise agreed upon and stated herein, this Contract does not allow for reimbursement of any expense incurred by Contractor, including but not limited to telephone or other communications device, postage, copying, travel, transportation, lodging, food, and per diem.

TAX

Contractor shall not bill for any taxes unless accompanied by proof the State is subject to the tax. If necessary, Contractor may request the applicable Agency's Illinois tax exemption number and federal tax exemption information.

PAYMENT TERMS AND CONDITIONS

By submitting an invoice, Contractor certifies that the supplies or services provided meet all requirements of the Contract, and the amount billed and expenses incurred are as allowed in the Contract. Invoices for services performed and expenses incurred through June 30 of any year must be submitted to the State no later than July 31 of that year; otherwise Contractor may have to seek payment through the Illinois Court of Claims (30 ILCS 105/25). All invoices are subject to statutory offset (30 ILCS 210).

Payments, including late payment charges, will be paid in accordance with the State "Prompt Payment Act" (30 ILCS 540) and rules (74 Ill. Adm. Code 900) when applicable. Payments delayed at the beginning of the State's fiscal year (July and August payments) because of the appropriation process shall not be considered a breach.

FLASHING BEACON LOCATIONS

Flashing Beacons		
Beacon #	Area	Location
FB0010	SA	IL 3 & Gall Rd / N Moore St (Wig-Wag) (Waterloo) LED
FB0014	SA	IL 3 & Illinois Avenue (Wig wag advance beacons) (Waterloo) LED
FB0018	SA	IL 156 & Old Orchard Road Eastbound (Waterloo) LED
FB0019	SA	IL 156 & Old Orchard Road Westbound (Waterloo) LED
FB0020	SA	IL 3 & IL 154 / IL 159 (Red Bud) LED
FB0025	SA	IL 3 & Kaskaskia Rd./Old Red Bud Rd.(2 Wig-wags NB/SB, 1 stop sign EB) WB SS removed LED
FB0030	SA	IL 3 & Evansville Road (Advance Beacon SB) LED
FB0040	SA	IL 3 & Chester Bridge Spur (EB) LED
FB0060	SA	IL 3 & Chester Bridge Spur (Advance Beacon SB) LED
FB0080	CA	IL 3 & Niedringhaus Ave (Advance Beacon NB) (Granite City) LED
FB0120	SA	IL 4 & IL 13, N Jct (Marissa) SB Stop Sign & SB Stop Ahead LED
FB0130	SA	IL 4 & IL 13, South Jct (Stop Sign LED) (Tilden)
FB0140	NA	IL 4 & 140 (E of Hamel) LED
FB0160	NA	IL 4 & IL 143 (W of Marine) LED
FB0180	SA	IL 4 & IL 150, W Jct (W of Steeleville) (LED)
FB0200	SA	IL 4 & IL 150, E Jct (East of Percy) LED Beacons
FB0210	SA	IL 4 & IL 161(EB & WB) (NB & SB) Advance Beacons LED
FB0220	SA	IL 161 & 6th St (N of Mascoutah) NB LED
FB0260	SA	IL 13 & Eiler Road (Belleville) LED
FB0280	SA	IL 13 & North Belt West (Advance Beacon WB) (Belleville) LED
FB0300	SA	IL 13 & ICRR Bridge Underpass (EB & WB) (W of Belleville) LED
FB0320	SA	IL 13 & 11th Street (Belleville) LED
FB0325	SA	IL 13 & IL 158/Freeburg Rd./South Belt (4-way spanwire)(Belleville) LED
FB0330	SA	IL 15 & DeMazenod (East & West Bound) Advance Wig-Wag Beacons LED
FB0335	SA	IL 15 / Broadway & 6th St. ESL (Span Wire Beacons) LED
FB0336	SA	25th St. & Louisiana Blvd. (E. St. Louis)(4-way red mastarm) LED
FB0340	SA	IL 13 & Baldwin Road (New Athens) (NB & SB Adv & stop signs) LED
FB0345	SA	IL 15 & Stone Church/Venedy Rd./CH 12 (SB stop sign)(Washington Cnty)LED
FB0350	NA	US 40 & 4th Street (Advance & Intersection Beacons) (Greenville)(LED)
FB0360	NA	US 40 & CH 10 (Mulberry Grove) LED
FB0380	CA	US 40 & CH 13 (Douglas / Marine Rd) (St Jacob) LED
FB0400	CA	US 40 & Highland /Laddelake Rd.(Highland) LED
FB0430	CA	US 40 & IL 143 (W of Pierron) LED

Flashing Beacons		
Beacon #	Area	Location
FB0440	CA	US 40 & IL 162 (E of Troy) LED
FB0445	CA	Main St. & Center St. (Troy) (4-way red mastarm) LED
FB0450	CA	US 40 & Formosa Rd (Advance Beacons EB & WB) LED
FB0460	CA	West Hwy 50 & North Green Mount Rd / Schwaegel Rd (Advance) LED
FB0470	CA	US 50 & Gateway Distribution EB and WB Advance Solar Beacons (Lebanon)
FB0480	CA	Old US 50 & Summerfield Rd (N of Summerfield) LED
FB0490	CA	Old US 50 & Little Prairie / Frogtown Rd.(Advance Yellow LED Beacon) Breese LED
FB0495	CA	US 50 & Russland Road / Aviston Road (EB & WB Adv) (NB & SB Stop Signs) LED
FB0500	CA	Old US 50 & St. Rose Rd (Breese) LED
FB0520	CA	US 50 & US 50 Spur (W of Summerfield) LED
FB0540	CA	US 50 & IL 127, N Jct (Advance Beacon, EB) (Carlyle) LED
FB0560	CA	US 51 & DuBois / Oakdale Rd. (W of DuBois) (EB & WB) LED
FB0580	NA	US 67 & 9th St (SB Advance Beacon) (Alton) LED
FB0600	NA	US 67 & Sherman Street (3-Way Red LED) Whitehall
FB0605	NA	US 67 & IL 106 Stop Sign, on US 67 (Solar)(Whitehall) LED
FB0620	NA	IL 267 & IL 108 (S of Greenfield) LED
FB0640	NA	US 67 & IL 111 (Godfrey) WB LED
FB0650	NA	IL 111 (Old US 67) & Oak Rest Rd./Irish Ln. (SB advance beacon)(Jersey County) LED
FB0660	SA	71st St. & St Clair Ave (E St Louis) (Advance and Stop Sign) LED
FB0680	NA	IL 96 & Hamburg Road (S of Mozier) LED
FB0700	CA	IL 111 & IL 162 (SB Advance Beacon) (Pontoon Beach) LED
FB0720	NA	IL 127 & IL 140, W Jct (SB Advance Beacon) (NW of Greenville) LED
FB0740	NA	IL 127 & IL 140, W Jct (NW of Greenville) SB LED
FB0750	NA	IL 127 & 3rd Street (Greenville) (4-way red mastarm) LED
FB0760	NA	IL 127 & Sorento Rd / Reno Rd (N of Greenville) (EB) LED
FB0765	CA	IL 127 & IL 143 (Bond County) (EB) LED
FB0780	CA	IL 127 & IL 161 (SW of Posey) LED
FB0790	SA	IL 127 & Huegely St. (Advance WigWag NB) Nashville LED
FB0800	CA	IL 127 & IL 177 (New Minden) LED
FB0820	CA	IL 127 & DuBois Rd (EB & WB) (SW of Posen) LED
FB0830	NA	IL 140 & Brakhane Rd.(Stop Sign)(W.of Hamel) LED
FB0831	NA	IL 140 & Brakhane Rd. (EB Advance)(W. of Hamel) LED
FB0832	NA	IL 140 & Quercus Grove Rd. (WB Advance)(W. of Hamel) LED
FB0840	NA	IL 140 & Carpenter Rd (Advance EB) (W. of Hamel) LED

Flashing Beacons		
Beacon #	Area	Location
FB0860	NA	IL 143 & Schwarz Rd (NE of Edwardsville) (WB Advance) LED
FB0880	NA	IL 143 & Schwarz Rd (NE of Edwardsville) (Wig-Wag) LED
FB0900	NA	IL 143 & Wanda Rd (E of Roxana) (NB) (Advance EB & WB) LED
FB0920	CA	IL 157 & IL 162, S Jct (Glen Carbon) (WB) LED
FB0940	CA	IL 157 & IL 162, N Jct (Glen Carbon) (EB) LED
FB0950	NA	IL 157 & I-270, North Junction (WB exit ramp advance beacon) LED
FB0960	NA	IL 157 & SIU-E (South Access Rd) (S of SIU-E) (Advance SB) LED
FB0965	NA	New Poag Road & SIU-E Access Road (LED)
FB0970	NA	IL 140 & IL 157/Hillsboro Ave.(4 red beacons on stop sign posts)(Hamel) LED
FB0975	NA	IL 140 & IL 160 LED
FB0980	SA	IL 158 & IL 161, E Jct (S of Scott AFB) LED
FB0990	SA	IL 158 & Frank Scott Pkwy. (EB Advance Yellow LED) (SW Belleville)
FB0991	SA	IL 159 & Frank Scott Pkwy. (WB Advance Yellow LED) (SW Belleville)
FB0992	SA	IL 158 & Mine Haul Rd. (EB Advance Yellow LED) (SW Belleville)
FB0993	SA	IL 158 & Mine Haul Rd. (WB Advance Yellow LED) (SW Belleville)
FB1000	SA	IL 159 & Douglas Rd (Advance Beacons NB, SB, EB, & WB) LED
FB1005	SA	IL 159 & IL 156 (NB Advance Yellow LED) (Hecker)
FB1006	SA	IL 159 & IL 156 (SB Advance Yellow LED) (Hecker)
FB1007	SA	IL 159 & IL 156 (EB Stop Sign LED) (Hecker)
FB1008	SA	IL 159 & IL 156 (WB Stop Sign LED) (Hecker)
FB1020	CA	IL 159 & Country Lane (NB & SB Advance) (Collinsville) LED
FB1038	NA	IL 159 (SB) North of Moro Rd (Advance Wig-Wag) LED
FB1040	NA	Beacons removed - EB & WB Moro Road at IL 159
FB1042	NA	IL 159 (NB) South of Moro Rd (Advance Wig-Wag) LED
FB1060	NA	IL 159 & Seiler Rd (E of Dorsey) LED
FB1080	NA	IL 159 & Prairie Town / Renken Rd (S of Dorsey) LED
FB1120	SA	IL 161 & Boul Ave (EB Advance Beacon) (Swansea) LED
FB1125	SA	IL 161 & Boul Ave (WB) (Swansea) LED
FB1128	SA	IL 161 & Old Lincoln Tr.(Advance yellow beacon) Fairview Hgts. LED
FB1129	SA	IL 161 & Carson Dr./74th St. (NB & SB Advance Yellow LED) (Belleville)
FB1130	CA	IL 161 & Norfolk & Western RR (E of Albers) LED
FB1135	SA	IL 160/177 & Venedy Station (Okawville) LED
FB1140	CA	IL 161 & Broadway (EB & WB Advance)(LED)(Hoffman)
FB1150	SA	IL 163 & Zingg Road NB Advance Beacon Wig Wag LED
FB1151	SA	IL 163 & Zingg Road SB Advance Beacon Wig Wag LED
FB1160	SA	IL 163 & Concordia Church Rd (N of Millstadt) (Advance SB) LED

Flashing Beacons		
Beacon #	Area	Location
FB1170	SA	IL 163 & Eiler Rd. (Stop Sign FB) LED
FB1180	CA	IL 203 & Edwardsville Rd (NB & SB) (Madison) LED
FB1190	CA	Maryville Rd. & Old Alton Rd. (4 way red LED mastarm)(N. of GC) LED
FB1200	CA	IL 203 & Collinsville Rd. (SB) (Fairmont City) LED
FB1220	NA	IL 67 & McClusky Rd (Advance NB) (New Delhi) LED
FB1240	CA	Caseyville Rd (CH 51) & West Morrison (CH 30) (Collinsville)(NB,SB,WB) LED
FB1260	SA	Douglas Rd & Saxtown Rd (S of Millstadt)(NB & SB)(EB & WB) Advance & Stop Sign LED
FB1280	CA	St Louis Ave & Cedar St MAINTAINED BY COLLINSVILLE 4/19/2009
FB1300	NA	Great River Rd Bikeway & Piasa Creek (E of Grafton)
FB1310	NA	Great River Rd Bikeway & Red Bud Lane (Juvenile Center)
FB1320	NA	Great River Rd Bikeway & Brown St (Grafton)
FB1340	CA	I-64 (WB) East of 10th St (Wig-Wag) (East St Louis) removed
FB1360	CA	REMOVED OCTOBER 2011 I-55/70 WB Ramp to EB I-64 Wig-Wag
FB1380	CA	I-64 (WB) East of IL 159 (HAR Sign)
FB1400	CA	I-64 (WB) East of IL 4 (HAR Sign)
FB1420	NA	I-70 (WB) East of I-55 (HAR Sign)
FB1440	NA	I-70 (WB) West of IL 160 (HAR Sign)
FB1460	NA	I-55 (SB) North of I-270 (HAR Sign)
FB1480	NA	I-55 (SB) South of IL 4 (HAR Sign)
FB1490	SA	I-255 (SB) South of IL 157 (HAR Sign) Cahokia
FB7000	CA	IL 37 & Boone Street (Salem) LED
FB7001	CA	US 50 & Ohio Street (Salem) LED
FB7002	CA	US 50 & Willow Street (Sandoval) LED (Pedestrian Crosswalk)
FB7003	CA	US 51 & Hardin Street (Central City) LED (Dusk to dawn)
FB7004	CA	US 50 & Broadway Street (Sandoval) LED (Pedestrian Crosswalk)
FB7005	CA	IL 161 & Airport Road (Centralia) LED (signals & lites)
FB7006	CA	US 50 & Iuka / Omega Road (Iuka) LED
FB7007	CA	Selmaville Road & World Color Entrance (S. of Selma) LED
FB7008	CA	US 50 & Selma Road EB (W. of Selma) LED (Advance)
FB7009	CA	IL 37 & IL 161 (S. of Salem) LED
FB7010	CA	US 51 & Patoka / Kinmundy Road (Kinoka Road) LED
FB7011	CA	IL 37 & Kell Road (N. of Dix) LED
FB7012	CA	US 50 & US 51 North Junction (Sandoval) LED
FB7013	CA	Old US 51 RR Underpass SB (N. of Centralia) LED
FB7014	CA	Old US 51 RR Underpass NB (N. of Centralia) LED

Flashing Beacons		
Beacon #	Area	Location
FB7015	CA	US 50 & Selmaville Road WB (W. of Salem) LED (Advance)

TRAFFIC SIGNAL LOCATIONS

Traffic Signals					
District	Intersection #	LED	Intersection ID	Area	County
SA	00008	Y	IL 3 & S. Market St. (LED)	Waterloo	Monroe
SA	00009	Y	IL 3 & IL 156 (LED)	Waterloo	Monroe
SA	00010	Y	IL 156 & Market St. (LED)	Waterloo	Monroe
SA	00012	Y	Market & 1st St. (LED)	Waterloo	Monroe
SA	00013	Y	IL 3 & Illinois Avenue (LED)	Waterloo	Monroe
SA	00015	Y	IL 3 & N. Market St./WalMart (LED)	Waterloo	Monroe
SA	00016	Y	IL 3 & HH Rd./Country Club Lane (LED)	Waterloo	Monroe
SA	00020	Y	IL 3 & S. Main St./ Gall Rd. (LED)	Columbia	Monroe
SA	00023	Y	IL 3 & Bottom Ave. / Weinel Blvd.(LED)	Columbia	Monroe
SA	00025	Y	IL 3 & Valmeyer Rd.(LED)	Columbia	Monroe
SA	00035	Y	IL 3 & Veteran's Pkwy (LED)	Columbia	Monroe
SA	00040	Y	IL 3 & N. Main St./Sand Bank Rd. (LED)	Columbia	Monroe
SA	00060	Y	IL 3 & Stolle Rd. (LED)	Cahokia- (South of)	St. Clair
SA	00080	Y	IL 3 & Water St./5th St. (LED)	Cahokia	St. Clair
SA	00100	Y	IL 3 & IL 157 (LED)	Cahokia	St. Clair
SA	00120	Y	IL 3 & Jerome Ln. (LED)	Cahokia	St. Clair
SA	00140	Y	IL 3 & Queeny Ave. (LED)	Sauget	St. Clair
SA	00160	Y	IL 3 & Monsanto Ave. (LED) (RR)	Sauget	St. Clair
SA	00180	Y	IL 3 & Mississippi Ave./8th St. (LED)	E. St. Louis	St. Clair
CA	00200	Y	IL 3 & Broadway / Venice (LED)	Venice	St. Clair
CA	00201	Y	Relocated IL 3 & Broadway Ave / 2nd Street,Venice (LED)	Venice	St. Clair
CA	00205	Y	IL 3 & Bissell Ave. (RR) (LED)	Madison	Madison
CA	00220	Y	IL 3 & Niedringhaus Ave. (LED)	Granite City	Madison
CA	00240	Y	IL 3 & 20th St. (LED)	Granite City	Madison
CA	00260	Y	IL 3 & Rock Rd. (LED)	Granite City/Tri Cty	Madison
CA	00265	Y	IL 3 & Pontoon Rd. (LED)	Granite City	Madison
CA	00266	Y	IL 3 & Missouri Ave./Granite Park Dr. (LED)	Granite City	Madison
CA	00270	Y	IL 3 & Northgate Industrial Dr. (LED)	Granite City	Madison
CA	00280	Y	IL 3 & Chain of Rocks Rd. (LED)(VIDEO)	Granite City- (North of	Madison

Traffic Signals					
District	Intersection #	LED	Intersection ID	Area	County
NA	00282	Y	IL 3 & I-270, North Junction (LED)	Granite City (North of)	Madison
NA	00290	Y	IL 3 & New Poag Rd. (RR)(LED)	Hartford- (South of)	Madison
NA	00295	Y	IL 3 & Piasa Ln. (LED)	Hartford	Madison
NA	00300	Y	IL 3 & Hawthorne St. (LED)	Hartford	Madison
NA	00320	Y	IL 3 & IL 143, Main Jct. (LED)	Wood River	Madison
NA	00340	Y	IL 3 & IL 143, South Jct. (LED)	Wood River	Madison
NA	00360	Y	IL 3 & IL 143, West Jct. (LED)	Wood River	Madison
NA	00365	N	IL 3 & Olin Brass Ent.	East Alton	Madison
NA	00380	Y	IL 3 & St. Louis Ave. (LED)	East Alton	Madison
NA	00400	Y	IL 3 & Niagara Ave./Virginia Ave. (LED)	East Alton	Madison
NA	00420	Y	IL 3 & Broadway / Alton (LED)	Alton	Madison
NA	00440	Y	IL 3 & IL 111, 140 (LED)	Alton	Madison
NA	00460	Y	IL 3, 111 & Bloomer Dr. (LED)	Alton	Madison
NA	00480	Y	IL 3, 111 & Seminary Rd. (LED)	Alton	Madison
NA	00485	Y	IL 255 & Humbert Rd., S. Jct. (LED)(Video)	Alton	Madison
NA	00486	Y	IL 255 & Humbert Rd., N. Jct. (LED)(Video)	Alton	Madison
NA	00500	Y	IL 3, 111 & Washington Ave./Humbert Rd. (LED)	Alton	Madison
NA	00520	Y	IL 3, 111 & Humbert St./Morning Star Dr. (LED)	Alton	Madison
NA	00540	Y	IL 3, 111 & Buckmaster Rd. (LED)	Alton	Madison
NA	00550	Y	IL 3, 111 & Golf Road (LED)	Alton	Madison
NA	00560	Y	IL 3, 111 & Alton Sq. Mall Dr. (LED)	Alton	Madison
NA	00580	Y	IL 3, 111 & Alby St. (LED)	Alton	Madison
NA	00600	Y	IL 3, 111 & Gerson Ave. (LED)	Godfrey	Madison
NA	00620	Y	IL 3, 111 & State St./Godfrey Rd. (LED)	Godfrey	Madison
NA	00630	Y	IL 3 & St. Ambrose Ln. (LED)	Godfrey	Madison
NA	00640	Y	IL 3 (H. Adams Pkwy.) & W. Delmar Ave. (LED)	Godfrey	Madison
NA	00641	Y	IL 3 & Pierce Ln./Frontenac Dr. (LED)	Godfrey	Madison
SA	00645	Y	IL 4 & Masonic Dr. (LED)	Sparta	Randolph
SA	00647	Y	IL 4 & WalMart Ent. (LED)	Sparta	Randolph
SA	00650	Y	IL 4 & IL 161, E. Jct. (LED)	Mascoutah	St. Clair
SA	00660	Y	E. Hwy 50 & Lincoln St. (LED)	O'Fallon	St. Clair

SA	00680	Y	E. Hwy 50 & Smiley St. (LED)	O'Fallon	St. Clair
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Traffic Signals					
District	Intersection #	LED	Intersection ID	Area	County
SA	00740	Y	IL 15 (Mo. Ave.) & 9th St. (LED)	E. St. Louis	St. Clair
SA	00780	Y	IL 15 (Mo. Ave.) & 10th St. (LED)	E. St. Louis	St. Clair
CA	00820	Y	10th St. & Baugh Ave. (LED)	E. St. Louis	St. Clair
SA	00840	Y	IL 15 (Mo. Ave.) & 13th St. (LED)	E. St. Louis	St. Clair
SA	00860	Y	IL 13 & 74th St./Westfield Plaza Pkwy. (LED)	Belleville	St. Clair
SA	00870	Y	IL 13 & Westfield Plaza Shopping Ctr. (LED)	Belleville	St. Clair
SA	00875	Y	IL 13 & N. Belt West (LED)	Belleville	St. Clair
SA	00880	Y	IL 13 & Frank Scott Pkwy. West (LED)	Belleville	St. Clair
SA	00884	Y	IL 15 & Frank Scott Pkwy.W. N. Jct. (LED)	Belleville	St. Clair
SA	00885	Y	IL 15 & Frank Scott Pkwy.W. S. Jct. (LED)	Belleville	St. Clair
SA	00890	Y	IL 13 & IL 157, 163 (LED)	Centreville	St. Clair
SA	00895	Y	IL 13 & 17th Street (LED)	Belleville	St. Clair
SA	00900	Y	IL 13 & IL 158 (LED)	Belleville	St. Clair
SA	00920	Y	IL 13 & State St. (LED)	Belleville	St. Clair
SA	00940	Y	IL 13 & IL 159 (LED)	Belleville	St. Clair
SA	00950	Y	IL 13 & Keim Rd. (LED)	New Athens	St. Clair
SA	00960	Y	IL 15 & IL 163/Pocket Rd. (LED)	Alorton	St. Clair
SA	00965	Y	IL 15 & Lakewood Pl./Racehorse Dr. (LED)	Alorton & Centreville	St. Clair
SA	00970	Y	IL 15 & Shrine Ent./DeMazenod Dr. (LED)	Belleville- (West of)	St. Clair
SA	00980	Y	IL 15 & 74th St./Westfield Plaza Pkwy. (LED)	Belleville	St. Clair
SA	00983	Y	IL 15 & 17th Street / Oliver C Joseph (LED)	Belleville	St. Clair
SA	00985	Y	IL 15 & 11th St. (LED)	Belleville- (South of)	St. Clair
SA	00987	N	IL 15 & IL 158, S. Jct. - REMOVED 5/2013	Belleville	St. Clair
SA	00988	N	IL 15 & IL 158, N. Jct. - REMOVED 5/2013	Belleville	St. Clair
SA	00990	Y	IL 15 & IL 159, S. Jct. (LED)	Belleville	St. Clair
SA	01000	Y	IL 15 & Green Mount Rd. (LED)	Belleville- (SE of)	St. Clair
SA	01004	Y	IL 13/15 & Main Street/Oak Brook Drive (LED)	Freeburg	St. Clair
SA	01006	Y	IL 15 & Apple St. (LED)	Freeburg	St. Clair
SA	01008	Y	IL 13/15 & Market Place Drive (LED)	Freeburg	St. Clair
SA	01010	Y	IL 15 & IL 127 (LED)	Nashville	Washington
SA	01014	Y	IL 127 & Enterprise Avenue (LED)	Nashville	Washington
SA	01016	Y	IL 127 & Mockingbird Road (LED)	Nashville	Washington

Traffic Signals					
District	Intersection #	LED	Intersection ID	Area	County
CA	01020	Y	15th St. & Baugh Ave. (LED)	E. St. Louis	St. Clair
SA	01040	Y	IL 15 (Mo. Ave.) & 15th St. (LED)	E. St. Louis	St. Clair
SA	01060	Y	15th St. & St. Clair Ave. (LED)	E. St. Louis	St. Clair
NA	01080	Y	IL 16 & US 67 (LED)	Jerseyville	Jersey
NA	01084	Y	IL 16 & Maple Summit Rd. (LED)	Jerseyville	Jersey
SA	01090	Y	N. Belt W. & 17th St. (LED)	Belleville	St. Clair
SA	01100	Y	IL 15 (Mo.) & 18th St. (LED)	E. St. Louis	St. Clair
SA	01120	Y	18th St. & St. Clair Ave. (LED) REMOVED	E. St. Louis	St. Clair
SA	01140	Y	25th St. & St. Clair Ave. (LED)	E. St. Louis	St. Clair
SA	01200	Y	25th St. & State St. (LED) MAINTAINED BY ESL	E. St. Louis	St. Clair
SA	01220	Y	IL 15 (Mo. Ave.) & 26th St. (LED)	E. St. Louis	St. Clair
CA	01240	Y	I-255 & Horseshoe Lake Rd., W. Jct. (LED)	Collinsville-(West of)	Madison
CA	01241	Y	I-255 & Horseshoe Lake Rd., E. Jct. (LED)	Collinsville-(West of)	Madison
CA	01242	Y	Horseshoe Lake Rd. & Eastport Plaza Drive (LED)	Collinsville	Madison
SA	01260	Y	37th / 38th St. & St. Clair Ave. (LED)	E. St. Louis	St. Clair
CA	01265	Y	US 40 & Formosa Rd. (LED)	Troy	Madison
CA	01270	Y	US 40 & O'Fallon Rd./Main St. (LED)	Troy	Madison
CA	01273	Y	US 40 & Bethany Ln / Triad HS. (LED)	E. of Troy	Madison
CA	01275	Y	US 40 & Marine Rd./Douglas St. (RR) (LED)	St. Jacob	Madison
CA	01280	Y	US 40 & IL 143 (LED)	Highland	Madison
CA	01281	Y	IL 143 & Northtown Ent. / RP Lumber (LED)	Highland	Madison
NA	01283	Y	US 40 & IL 127 (LED)	Greenville	Bond
SA	01285	y	N. Belt W. & 42nd St./Shop n' Save (LED)	Belleville	St. Clair
SA	01290	Y	N. Belt W. & 47th St./Schnuck's (LED)	Belleville	St. Clair
CA	01295	Y	Old US 50 & Germantown Rd./ Mater Dei Dr. (LED)	Breese	Clinton
CA	01297	N	Old US 50 & Walnut St.	Breese	Clinton
CA	01300	Y	US 50 & IL 127, S. Jct. (LED) OLD	Carlyle	Clinton
CA	01320	Y	US 50 & IL 127, N. Jct. (LED) NEW	Carlyle	Clinton
CA	01322	Y	IL 127 & Gateway Ave/E. William Rd(LED)	Carlyle	Clinton
CA	01325	Y	US 50 & Illinois Street, Salem	Salem	Marion
CA	01326	Y	US 50 (Main) & College	Salem	Marion

Traffic Signals					
District	Intersection #	LED	Intersection ID	Area	County
CA	01327	Y	US 50 (Main) & IL 37 (Broadway)	Salem	Marion
CA	01328	Y	US 50 (Main) & Jefferson	Salem	Marion
CA	01329	Y	US 50 (Main) & Westgate	Salem	Marion
CA	01330	Y	US 50 & Selmaville Road	Salem	Marion
CA	01331	Y	US 50 (Main) & I-57 East Junction	Salem	Marion
CA	01332	Y	US 50 (Main) & I-57 West Junction	Salem	Marion
CA	01333	Y	IL 37 (Broadway) & Boone	Salem	Marion
CA	01334	Y	US 50 (Main) & Hotze	Salem	Marion
CA	01335	Y	US 50 & Baldrige (WalMart)	Salem	Marion
CA	01340	Y	US 50 & IL 158 (LED)	O'Fallon	St. Clair
SA	01342	Y	W. Hwy 50 & Castle Acres/Auto Ct. (LED)	O'Fallon	St. Clair
SA	01345	Y	W. Hwy 50 & WalMart/Dean Dr. (LED)	O'Fallon	St. Clair
SA	01350	Y	W. Hwy 50 & Sam's/Long Dr. (LED)	O'Fallon	St. Clair
SA	01355	Y	W. Hwy 50 & Hartman Ln. (LED)	O'Fallon	St. Clair
SA	01360	Y	W. Hwy 50 & I-64, W. Jct. (LED)	O'Fallon	St. Clair
CA	01365	Y	W. Hwy 50 & I-64, E. Jct. (LED)	O'Fallon	St. Clair
CA	01366	Y	W. Hwy 50 & Venita Dr./Regency Pk. (LED)	O'Fallon	St. Clair
SA	01367	Y	I-64 & Green Mount Rd. S. Jct. (LED)	O'Fallon	St. Clair
CA	01368	Y	I-64 & Green Mount Rd. N. Jct. (LED)	O'Fallon	St. Clair
CA	01370	Y	W. Hwy 50 & Schwaegel/N. Green Mt. Rd. (LED)	O'Fallon	St. Clair
CA	01371	Y	W. Hwy 50 & 3rd St./Cambridge Blvd. (LED)	O'Fallon	St. Clair
CA	01372	Y	E. Hwy. 50 & Schnucks Entrance (LED)	O'Fallon	St. Clair
CA	01374	Y	E. Hwy 50 & N. Seven Hills Rd./Timber Creek Dr. (LED)	O'Fallon	St. Clair
CA	01376	Y	East Hwy 50 & Shiloh Cut-Off/Main St (LED)	O'Fallon	St. Clair
CA	01378	y	IL 4 & US 50 / St. Louis St. (LED)	Lebanon	St. Clair
SA	01380	Y	Frank Scott Parkway. & W. Main St. (LED)	Belleville	St. Clair
CA	01382		I-64 & Rieder Road, North Junction (LED)	E. of O'Fallon	St. Clair
SA	01383		I-64 & Rieder Road, South Junction (LED)	E. of O'Fallon	St. Clair
SA	01390	Y	Frank Scott Parkway & Dapron Drive (LED)	Belleville	St. Clair
SA	01420	Y	N. Belt W. & Frank Scott Pkwy. (LED)	Belleville	St. Clair
NA	01445	Y	US 67 & Clark Bridge (LED)	Alton	Madison
NA	01450	Y	US 67 & Ridge St. (RR) (LED)	Alton	Madison

Traffic Signals					
District	Intersection #	LED	Intersection ID	Area	County
NA	01455	Y	US 67 & Henry St. (RR) (LED)	Alton	Madison
NA	01458	Y	US 67 & IL 100 (LED)	Alton	Madison
NA	01470	Y	US 67 & 9th St. (LED)	Alton	Madison
NA	01482	Y	US 67 & College/20th St. (LED)	Alton	Madison
NA	01485	Y	US 67 & Alton Sq. Mall Dr. (LED)	Alton	Madison
NA	01490	Y	US 67 & Northport Dr. (LED)	Alton	Madison
NA	01495	Y	US 67 & Godfrey Rd. (LED)	Godfrey	Madison
NA	01497	Y	US 67 & Taylor Ave/Celesta St. (LED)	Godfrey	Madison
NA	01498	Y	US 67 & Stamper Ln. (LED)	Godfrey	Madison
NA	01500	Y	US 67 & Tolle Ln. (LED)	Godfrey	Madison
NA	01520	Y	US 67 & Elm Street (LED)	Godfrey	Madison
NA	01525	Y	US 67 & Pearl St. / Godfrey(LED)	Godfrey	Madison
NA	01526	Y	IL 255 & IL 111 / US 67 East Jct. (LED)(Video)	Godfrey	Madison
NA	01527	Y	US 67 & Wal-Mart Drive (LED)(Godfrey)	Godfrey	Madison
NA	01530	Y	IL 255 & Fosterburg Rd., S. Jct. (LED)	Alton	Madison
NA	01531	Y	IL 255 & Fosterburg Rd. N. Jct. (LED)	Alton	Madison
SA	01540	Y	70th St. & W. Main St./Foley Dr. (LED)	Belleville	St. Clair
NA	01550	Y	US 67 / IL 111 & Lars Hoffman Crossing (LED)	Godfrey	Madison
SA	01560	Y	74th St. & Foley Dr. (LED)	Belleville	St. Clair
SA	01580	Y	79th St. & St. Clair Ave. (LED)	E. St. Louis	St. Clair
NA	01590	Y	IL 100 & Clifton Terrace Rd. (LED)	Godfrey	Madison
NA	01600	Y	IL 109 & US 67 (LED)	Jerseyville	Jersey
SA	01620	Y	IL 111 & Summit Ave. (LED)	E. St. Louis	St. Clair
SA	01640	Y	IL 111 & St. Clair Ave. (LED)	Washington Park	St. Clair
CA	01660	Y	IL 111 & I-64, N. Jct. (LED)	Washington Park	St. Clair
CA	01680	Y	IL 111 & Bunkum Rd. (LED)	Washington Park	St. Clair
CA	01700	Y	IL 111 & Maryland Ave. (LED)	Fairmont City	St. Clair
CA	01720	Y	IL 111 & Collinsville Rd., E. Jct. (LED)	Fairmont City	St. Clair
CA	01740	Y	IL 111 & Collinsville Rd., W. Jct. (LED)	Fairmont City	St. Clair
CA	01760	Y	IL 111 & Horseshoe Lake Rd. (LED)	Pontoon Beach	Madison
CA	01780	Y	IL 111 & IL 162 (LED)	Pontoon Beach	Madison
CA	01800	Y	IL 111 & Pontoon Rd. (LED)	Pontoon Beach	Madison
CA	01810	Y	IL 111 & Engineer Rd. (LED)	Pontoon Beach	Madison
NA	01820	Y	IL 111 & Chain of Rocks Rd. (Video)(LED)	Pontoon Beach-(N of)	Madison
NA	01825	Y	IL 111 & Gateway Commerce Center Dr (LED).	Edwardsville and Pontoon	Madison

Traffic Signals					
District	Intersection #	LED	Intersection ID	Area	County
NA	01830	Y	IL 111 & New Poag Rd. (LED)	Pontoon Beach-(North of)	Madison
NA	01835	Y	Madison Ave. & Hedge Rd. (LED)	South Roxana	Madison
NA	01840	Y	IL 111 & Madison St./Hawthorne St. (RR) (LED)	Roxana	Madison
NA	01860	Y	IL 111 & Tydeman Ave. (LED)	Roxana	Madison
NA	01880	Y	IL 111 & Thomas St. (LED)	Roxana	Madison
NA	01900	Y	IL 111 & Esther Ave. (LED)	Wood River	Madison
NA	01920	Y	IL 111 & IL 143 (LED)	Wood River	Madison
NA	01940	Y	IL 111 & Edwardsville Rd. (LED)	Wood River	Madison
NA	01945	Y	IL 111 & Wesley Dr. (LED)	Wood River	Madison
NA	01947	Y	IL 111 & Memorial Lane (LED)	Wood River	Madison
NA	01960	Y	IL 111 & Airline Dr. (LED)	Bethalto	Madison
NA	01980	Y	IL 111 & IL 140, E. Jct. (LED)	Bethalto	Madison
NA	01986	Y	IL 111 & IL 255, North Junction (LED)	Bethalto	Madison
NA	01987	Y	IL 111 & IL 255, South Junction (LED)	Bethalto	Madison
NA	02000	Y	IL 111, 140 & Franklin Ave. (LED)	Cottage Hills	Madison
NA	02001	N	IL 140 near Lenora Cottage Hills (Removed)	Cottage Hills	Madison
NA	02020	Y	IL 111, 140 & Stanley Rd. (LED)	Alton	Madison
NA	02030	Y	IL 140 & IL 255 Ramps (LED)	Bethalto	Madison
NA	02040	Y	IL 111, 140 & Powder Mill Rd. (LED)	Alton	Madison
NA	02050	Y	IL 111, 140 & Park Rd. (LED)	Alton	Madison
NA	02060	Y	IL 111, 140 & Fosterburg Rd. (LED)	Alton	Madison
NA	02062	Y	IL 127 & Elm St. (LED)	Greenville	Bond
NA	02065	Y	IL 140 (Landmark) & IL 143 (LED) Broadway Connector	Alton	Madison
NA	02070	Y	IL 140 & IL 159 (LED)	Bethalto- (East of)	Madison
NA	02075	Y	IL 140 & Texas Blvd. (LED)(VIDEO)	Bethalto	Madison
NA	02080	Y	IL 140 & Prairie St. (LED)	Bethalto	Madison
NA	02085	Y	IL 140 & Moreland St. (LED)	Bethalto	Madison
NA	02087	Y	IL 140 & Rodgers Ave. (LED)	Alton	Madison
NA	02090	Y	IL 140 (Broadway) & Monument Ave. (LED)	Alton	Madison
NA	02095	Y	IL 143 & Discovery Pkwy. (LED)	Alton	Madison
NA	02096	Y	IL 143 & Cpl Belchik (Indiana Ave)(LED)	Alton	Madison
NA	02097	Y	IL 143 & Enviroway (LED)	Wood River	Madison

Traffic Signals					
District	Intersection #	LED	Intersection ID	Area	County
NA	03000	Y	IL 143 & Old St. Louis Rd. (LED)	Wood River	Madison
NA	03020	Y	IL 143 & Wood River Ave. (LED)	Wood River	Madison
NA	03040	Y	IL 143 & 6th St. (LED)	Wood River	Madison
NA	03060	Y	IL 143 & 9th St. (LED)	Wood River	Madison
NA	03080	Y	IL 143 & 13th St. (LED)	Wood River	Madison
NA	03100	Y	IL 143 & 14th St./Ferguson Ave. (LED)	Wood River	Madison
NA	03120	Y	IL 143 & Edwardsville Rd. (LED)	Wood River	Madison
NA	03122	Y	IL 143 & Wesley Dr. (LED)	Wood River	Madison
NA	03123	Y	IL 143 & Shop n' Save (LED)	Wood River	Madison
NA	03124	Y	IL 143 & TCF Entrance -REMOVED 11/11	Wood River	Madison
NA	03125	Y	IL 143 & IL 255, W. Jct. (LED)	Roxana	Madison
NA	03126	Y	IL 143 & IL 255, E. Jct. (LED)	Roxana	Madison
NA	03128	Y	IL 143 & Wanda Rd / Moreland Rd (LED)	Roxana	Madison
NA	03129	Y	IL 143 & Governors' Parkway (LED)	Edwardsville	Madison
NA	03130	Y	IL 143 & IL 157, E. Jct. (LED)	Edwardsville	Madison
NA	03140	Y	IL 143 & IL 159, N. Jct. (LED)	Edwardsville	Madison
NA	03145	Y	IL 159 & Moro Road (LED)	Edwardsville (North of)	Madison
CA	03150	Y	IL 143 & Troxler Ave./Koepfli Ln. (LED)	Highland	Madison
SA	03160	Y	IL 157 & Falling Springs Rd. (LED)	Cahokia	St. Clair
SA	03180	y	IL 157 & Range Lane (LED)	Cahokia	St. Clair
SA	03185	Y	IL 157 & St. Paul Drive (LED)	Cahokia	St. Clair
SA	03190	Y	IL 157 & Hawkins Dr./Miskell Blvd. (LED)	Cahokia	St. Clair
SA	03200	Y	IL 157 & Kazilek Dr. (LED)	Cahokia	St. Clair
SA	03210	Y	IL 157 & Kenneth/Paris Ave. (LED)	Cahokia	St. Clair
SA	03220	Y	IL 157 & Lazercheff Dr. (LED)	Cahokia	St. Clair
SA	03240	Y	IL 157 & I-255, W. Jct. (LED)	Cahokia	St. Clair
SA	03260	Y	IL 157 & I-255 E. Jct./Triple Lakes Rd. (LED)	Cahokia	St. Clair
SA	03280	Y	IL 157 & Lake Dr./Foley Dr. (LED)	Centreville	St. Clair
SA	03300	Y	IL 157 & W. Main St./ State St. / E.St. Louis (LED)	E. St. Louis	St. Clair
SA	03320	Y	IL 157 & Vieux Carre Dr. (LED)	E. St. Louis	St. Clair
SA	03340	Y	IL 157 & St. Clair Ave., E. Jct. (LED)	Fairview Hts.	St. Clair
SA	03360	Y	IL 157 & St. Clair Ave., W. Jct. (LED)	Caseyville	St. Clair
SA	03370	Y	IL 157 & Tucker Dr. (LED)	Caseyville	St. Clair
SA	03380	Y	IL 157 & I-64, S.Jct./Rauckman Dr. (LED)	Caseyville	St. Clair
CA	03400	Y	IL 157 & I-64, N. Jct./Petroff Dr. (LED)	Caseyville	St. Clair

Traffic Signals					
District	Intersection #	LED	Intersection ID	Area	County
CA	03410	Y	IL 157 & Sasak Blvd. (LED)	Caseyville	St. Clair
CA	03420	Y	IL 157 & Bunkum Rd. (LED)	Caseyville	St. Clair
CA	03440	Y	IL 157 & O'Fallon St. (LED)	Caseyville	St. Clair
CA	03460	Y	IL 157 & CH 51 (LED)	Caseyville	St. Clair
CA	03480	Y	IL 157 & St. Louis Rd., S. Jct. (LED)	Collinsville	Madison
CA	03500	Y	IL 157 & Collinsville Rd., N. Jct. (LED)	Collinsville	Madison
CA	03520	Y	IL 157 & W. Main St. / Collinsville (LED)	Collinsville	Madison
CA	03530	Y	IL 157 & S. Mall Ent./Beverly Ln. (LED)	Collinsville	Madison
CA	03535	Y	IL 157 & Collinsville Crossing Blvd.(LED)	Collinsville	Madison
CA	03540	Y	IL 157 & I-55/70, S. Jct. (LED)	Collinsville	Madison
CA	03560	Y	IL 157 & I-55/70, N. Jct. (LED)	Collinsville	Madison
CA	03580	Y	IL 157 & Eastport Plaza Dr. (LED)	Collinsville	Madison
CA	03600	Y	IL 157 & Collinsville Belt (LED)	Collinsville	Madison
CA	03620	Y	IL 157 & Horseshoe Lake Rd. (LED)	Collinsville	Madison
CA	03630	Y	IL 157 & W. Main St. / Glen Carbon (LED)	Glen Carbon	Madison
CA	03640	Y	IL 157 & I-270, S. Jct. (LED)	Glen Carbon- (West of)	Madison
NA	03660	Y	IL 157 & Chain of Rocks Rd.(LED) (Video)	Edwardsville	Madison
NA	03662	Y	IL 157 & Country Club/Auerbach (LED) (Video)	Edwardsville & GlenCarbon	Madison
NA	03665	Y	IL 157 & Meridian Rd.(LED) (Video)	Edwardsville & GlenCarbon	Madison
CA	03668	Y	IL 157 & Ginger Creek/Excel (LED) (Video)	Edwardsville &GlenCarbon	Madison
NA	03670	Y	IL 157 & Center Grove Rd. (Video) (LED)	Edwardsville	Madison
NA	03672	Y	IL 157 & University Park/Mutual Ct. (Video) (LED)	Edwardsville	Madison
NA	03675	Y	IL 157 & E. University Dr./ Governors Pkwy (Video)(LED)	Edwardsville	Madison
NA	03677	Y	IL 157 & University Dr./Lewis Rd. (Video) (LED)	Edwardsville	Madison
NA	03680	Y	IL 157 & Schwarz St. (Video) (LED)	Edwardsville	Madison
NA	03690	Y	IL 157 & Esic Drive (Video) (LED)	Edwardsville	Madison
NA	03695	Y	Center Grove Rd. & Esic Dr. (LED)	Edwardsville	Madison
NA	03700	Y	IL 157 & St. Louis St. (LED)	Edwardsville	Madison
NA	03720	Y	IL 157 & IL 159 (Buchanan St.), E. Jct.(LED)	Edwardsville	Madison
NA	03740	Y	IL 157 & IL 159 (Main St.), W. Jct. (LED)	Edwardsville	Madison
NA	03745	Y	IL 143 & Hillsboro Ave. (LED)	Edwardsville	Madison

Traffic Signals					
District	Intersection #	LED	Intersection ID	Area	County
SA	03760	Y	IL 158 & IL 161, W. Jct. (LED)	Shiloh	St. Clair
SA	03780	Y	IL 158 & Seibert Rd. (LED)	Shiloh	St. Clair
SA	03785	Y	IL 158 & Metrolink Sta.10 (LED)	Shiloh (Metro pays)	St. Clair
SA	03790	Y	Main St & Cross St. (LED)	Shiloh	St. Clair
SA	03800	Y	IL 158 & Wherry Rd./Maple St. (LED)	Shiloh	St. Clair
SA	03804	Y	Old IL 158 & Patriots Landing (LED)	Scott AFB	St. Clair
SA	03820	Y	IL 159 & Douglas Rd. (LED)	Smithton-(North of)	St. Clair
SA	03830	Y	IL 159 & Ross Ln. (LED)	Belleville	St. Clair
SA	03835	Y	IL 159 & Sandwedge/ Westhaven (LED)	Belleville	St. Clair
SA	03840	Y	IL 159 & Monroe St. (LED)	Belleville	St. Clair
SA	03860	Y	IL 159 & Lincoln St. (LED)	Belleville	St. Clair
SA	03880	Y	IL 159 & Washington St. (LED)	Belleville	St. Clair
SA	03900	Y	IL 159 & "A" St. (LED)	Belleville	St. Clair
SA	03920	Y	IL 159 & "C" St. (LED)	Belleville	St. Clair
SA	03940	Y	IL 159 & "E" St./Lebanon Ave. (LED)	Belleville	St. Clair
SA	03945	Y	IL 159 & "F" St. (LED)	Belleville	St. Clair
SA	03950	Y	IL 159 & Douglas Ave. (RR) (LED)	Belleville	St. Clair
SA	03960	Y	IL 159 & Boul Ave. (LED)	Swansea	St. Clair
SA	03980	Y	IL 159 & IL 161 (LED)(VIDEO)	Swansea	St. Clair
SA	03984	Y	IL 161 & Josephine Dr. (LED)	Swansea	St. Clair
SA	03990	Y	IL 159 & Parkway Dr./Sta.#7 Access Rd. (LED)	Swansea	St. Clair
SA	04000	Y	IL 159 & Fullerton Rd. (LED)	Swansea	St. Clair
SA	04005	Y	IL 159 & Rosewood Village Dr. (LED)	Swansea	St. Clair
SA	04007	Y	IL 159 & Huntwood Rd. (LED)	Swansea	St. Clair
SA	04008	Y	IL 159 & Green Haven Dr./North Illinois Lane (LED)	Swansea	St. Clair
SA	04010	Y	IL 159 & Frank Scott Pkwy. (LED)	Swansea	St. Clair
SA	04015	Y	IL 159 & Chateau Dr.(LED)	Fairview Hgts	St. Clair
SA	04020	Y	IL 159 & Longacre Dr./Ashland Dr.(LED)	Fairview Hts.	St. Clair
SA	04030	Y	IL 159 & Lincoln Pl. (Lowe's Ent.) / Fairview Hgts(LED)	Fairview Hts.	St. Clair
SA	04040	Y	IL 159 & Lincoln Tr./Lincoln Hwy. (LED)	Fairview Hts.	St. Clair
SA	04060	Y	IL 159 & K-Mart/Associated Bank(LED)	Fairview Hts.	St. Clair
SA	04080	Y	IL 159 & St. Clair Sq. Ent./Market Pl. (LED)	Fairview Hts.	St. Clair
SA	04100	Y	IL 159 & I-64, S. Jct. (LED)	Fairview Hts.	St. Clair

Traffic Signals					
District	Intersection #	LED	Intersection ID	Area	County
CA	04120	Y	IL 159 & I-64, N. Jct. (LED)	Fairview Hts.	St. Clair
CA	04140	Y	IL 159 & Ludwig Dr./Salem Pl. (LED)	Fairview Hts.	St. Clair
CA	04150	Y	IL 159 & Fountains Blvd.(LED)	Fairview Hgts.	St. Clair
CA	04152	Y	IL 159 & Milburn School Rd./E. O'Fallon Dr.(LED)(VIDEO)	Fairview Hgts (North of)	St. Clair
CA	04160	Y	IL 159 & Hollywood Hts.Rd./Bethel Rd (LED)	Collinsville-(South of)	St. Clair
CA	04170	Y	IL 159 & Tanglewood Way (LED)	Caseyville	St. Clair
CA	04171	Y	IL 159 & N. Commercial Access Rd. (LED)	Caseyville	St. Clair
CA	04180	Y	IL 159 & S. Morrison St./CH 30 (LED)	Collinsville	St. Clair
CA	04200	Y	IL 159 & Church St. (LED)	Collinsville	Madison
CA	04220	Y	IL 159 & Main St. / Collinsville (LED)	Collinsville	Madison
CA	04240	Y	IL 159 & Clay St. (LED)	Collinsville	Madison
CA	04260	Y	IL 159 & Wickliffe St. (LED)	Collinsville	Madison
CA	04270	Y	IL 159 & Spring St (LED)	Collinsville	Madison
CA	04280	Y	IL 159 & Collinsville Belt (LED)	Collinsville	Madison
CA	04285	Y	IL 159 & Camelot Drive (LED)	Collinsville	Madison
CA	04290	Y	IL 159 & Country Ln. (LED)	Collinsville	Madison
CA	04292	Y	IL 159 & St. Charles Dr. (LED)	Maryville	Madison
CA	04296	Y	IL 159 & I-55/70, North Junction(LED)	Maryville	Madison
CA	04300	Y	IL 159 & Maryville Center Dr. (LED)	Maryville	Madison
CA	04320	Y	IL 159 & Main St. / Maryville(LED)	Maryville	Madison
CA	04322	Y	IL 159 & Vadalabene Dr.(LED)	Maryville	Madison
CA	04325	y	IL 159 & IL 162 (LED)	Maryville	Madison
CA	04327	Y	IL 159 & Glen Crossing Rd. (LED)	Glen Carbon	Madison
NA	04328	Y	Old Troy Rd. & Glen Crossing Rd. (LED)	Glen Carbon	Madison
CA	04329	Y	IL 159 & I-270 S.Jct. (LED)	Glen Carbon	Madison
NA	04330	Y	IL 159 & I-270 N. Jct. (LED)	Glen Carbon	Madison
NA	04340	Y	IL 159 & Glen Carbon Rd./Cottonwood Rd. (LED)	Glen Carbon	Madison
NA	04341	Y	Cottonwood Rd. & Junction Dr. (LED)	Glen Carbon	Madison
NA	04360	Y	IL 159 & Junction Dr. (LED)	Glen Carbon	Madison
NA	04361	Y	IL 159 & Governors Parkway (LED)	Edwardsville	Madison
NA	04362	Y	IL 159 & Lowe's / Illini Dr. (LED)	Glen Carbon	Madison
NA	04363	Y	IL 159 & Dierburgs Entrance / Edw Crossing (LED)	Edwardsville	Madison
NA	04364	Y	IL 159 & Center Grove/ Kettle River (LED)	Edwardsville	Madison
NA	04365	Y	Troy Road & Center Grove/Goshen Rd.	Edwardsville	Madison

Traffic Signals					
District	Intersection #	LED	Intersection ID	Area	County
			(LED)		
NA	04366	Y	Troy Road & Governors Pkwy (LED)	Edwardsville	Madison
NA	04367	Y	Troy Road & Southern/Kohl's Entrance (LED)	Edwardsville	Madison
NA	04368	Y	Troy Road & Harvard Drive (LED)	Edwardsville	Madison
NA	04369	Y	Troy Rd. & LaVelle (LED)	Edwardsville	Madison
NA	04370	Y	IL 159 (Main St.)& Schwarz St.(LED)	Edwardsville	Madison
NA	04375	Y	Troy Road & Montclair Ave. (LED)	Edwardsville	Madison
NA	04380	Y	Troy Road & Franklin Ave. (LED)	Edwardsville	Madison
NA	04400	Y	Troy Road & Schwarz St. (LED)	Edwardsville	Madison
CA	04420	Y	IL 160 & Walnut St.(LED)	Highland	Madison
CA	04440	Y	IL 160 & Laurel St.(LED)	Highland	Madison
CA	04460	Y	IL 160 & Washington St.(LED)	Highland	Madison
CA	04480	Y	IL 160 & Cypress St.(LED)	Highland	Madison
CA	04500	N	US 40 & Troxler Ave / Iberg Rd (LED)	Highland	Madison
CA	04510	Y	IL 160 & Troxler Ave.(LED)	Highland	Madison
SA	04520	Y	St.Clair Ave.& 3rd Ave./North Access Rd.(LED)	Fairview Hts.	St. Clair
SA	04525	Y	IL 161 & Lynn Lee Ct./East Access Rd.(LED)	Fairview Hgts.	St. Clair
SA	04530	Y	IL 161 & St. Clair Ave.(LED)	Fairview Hgts.	St. Clair
SA	04540	Y	IL 161 & Lincoln Tr./Lebanon Rd.(LED)	Fairview Hts.	St. Clair
SA	04550	Y	IL 161 & Carson Dr. (LED)	Belleville	St. Clair
SA	04560	Y	IL 161 & Frank Scott Pkwy West (LED)	Belleville	St. Clair
SA	04580	Y	IL 161 & Royal Hts. Rd. (LED)	Belleville	St. Clair
SA	04600	Y	IL 161 & 17th St./Sullivan Dr. (LED)	Belleville	St. Clair
SA	04620	Y	IL 161 & N. Belt W./Fullerton Rd.(LED)	Swansea	St. Clair
SA	04640	Y	IL 161 & Lebanon Ave. (LED)	Belleville	St. Clair
SA	04650	Y	IL 161 & "B" St. (LED)	Belleville	St. Clair
SA	04655	Y	IL 161 & E. Main St. (LED)	Belleville	St. Clair
SA	04660	Y	IL 161 & Carlyle Rd. (LED)	Belleville	St. Clair
SA	04680	Y	IL 161 & West Blvd. (LED)	Belleville	St. Clair
SA	04700	Y	IL 161 & Green Mount Rd.(LED)	Belleville	St. Clair
SA	04701	Y	Greenmount Rd. & Weatherstone Dr. / SWIC Entrance (LED)	Belleville	St. Clair
SA	04702	Y	IL 161 & SWIC/YMCA Ent. (LED)	Belleville	St. Clair
SA	04703	Y	IL 161 & Commons Drive (LED)	Belleville	St. Clair
SA	04706	Y	IL 161 & Old IL 158, N. Jct. (LED)	Scott AFB- (South of)	St. Clair

Traffic Signals					
District	Intersection #	LED	Intersection ID	Area	County
CA	04712	Y	IL 162 & Riggin Rd. (LED)	Troy	Madison
CA	04714	Y	IL 162 & Bradley Smith Blvd. (LED)	Troy	Madison
CA	04715	Y	IL 162 & I-55,70 Ramps SPDI (LED)	Troy	Madison
CA	04716	Y	IL 162 & Formosa Rd./Frontage Rd.(LED)	Troy	Madison
CA	04717	Y	IL 162 & Liebler Rd. / Formosa Rd.(LED)	Troy	Madison
CA	04720	Y	IL 162 & 23rd St. (LED)	Granite City	Madison
CA	04740	Y	IL 162 & Maryville Rd. (LED)	Granite City	Madison
CA	04760	y	IL 162 & Horseshoe Lake Rd./Mockingbird Ln. (LED)	Granite City-(East of)	Madison IS
SA	04780	Y	IL 177 & Green Mount Rd. (LED)	Belleville	St. Clair
SA	04790	Y	IL 177 & 6th St. (LED)	Mascoutah	St. Clair
CA	04800	Y	IL 203 & Ohio Ave. (LED)	Madison	Madison
CA	04820	Y	IL 203 & Big Bend Rd./Eagle Park Rd.(LED)	Madison	Madison
CA	04840	Y	IL 203 & Harrison Ave./Maverick Dr.(LED)	Madison	Madison
CA	04850	Y	IL 203 & 3rd St. (LED)	Madison	Madison
CA	04860	Y	IL 203 & 6th St. (LED)	Madison	Madison
CA	04880	Y	IL 203 & 20th St. (LED)	Granite City	Madison
CA	04900	Y	IL 203 & IL 162 (LED)	Granite City	Madison
CA	04920	Y	IL 203 & 23rd St. (LED)	Granite City	Madison
CA	04940	Y	IL 203 & 25th St. (LED)	Granite City	Madison
CA	04960	Y	IL 203 & Victory Dr. (LED)	Granite City	Madison
CA	04975	Y	IL 203 & St. Clair Ave./Iowa St. (LED)	Granite City	Madison
CA	04980	Y	IL 203 & Madison Ave. (LED)	Granite City	Madison
CA	05000	Y	IL 203 & Jill Ave. (LED)	Granite City	Madison
CA	05020	Y	IL 203 Johnson/Fehling Road (LED)	Granite City	Madison
CA	05040	Y	REMOVED IL 203 & Pontoon Road REMOVED	Granite City	Madison
CA	05042	Y	IL 203 & North Street (LED)	Granite City	Madison
CA	05060	Y	IL 203 & Maryville Road (RR)(LED)	Granite City-(North of)	Madison
NA	05070	Y	US 67 & WalMart Entrance (Jerseyville)(LED)	Jerseyville	Jersey
NA	05075	Y	US 67 & County Road (LED)	Jerseyville	Jersey
NA	05080	Y	US 67 & Pearl Street / Jerseyville (LED)	Jerseyville	Jersey
NA	05100	N	Berkshire Ave. & Wood River Ave.	East Alton	Madison
NA	05160	Y	IL 140 (Broadway) & Washington Ave(LED).	Alton	Madison

Traffic Signals					
District	Intersection #	LED	Intersection ID	Area	County
NA	05180	Y	Broadway & Main St./Cut St. (LED)	Alton	Madison
NA	05200	Y	Broadway & Milton Hill Rd. (LED)	Alton	Madison
SA	05210	Y	Carlyle Ave & McClintock Ave. (LED)	Belleville	St. Clair
CA	05220	Y	Collinsville Rd. & I-255, W. Jct. (LED)	Collinsville	Madison
CA	05240	Y	Collinsville Rd. & I-255, E. Jct. (LED)	Collinsville	Madison
CA	05250	Y	Collinsville Rd. & Collinsville 7/8 Center (LED)	Collinsville	Madison
CA	05260	Y	Collinsville Road & Black Lane (LED)	Collinsville- (West of)	St. Clair or Madison
CA	05270	Y	Collinsville Beltline & Johnson Hill Rd (LED)	Collinsville	Madison
CA	05275	Y	Collinsville Beltline & Bridle Rdg/Kingsbury Ct. (LED)	Collinsville	Madison
CA	05280	Y	Collinsville Beltline & Keebler Rd. (LED)	Collinsville	Madison
CA	05300	Y	Collinsville Beltline & Greenfield Dr. (LED)	Collinsville	Madison
CA	05310	Y	Horseshoe Lake Rd. & Arlington Dr. (LED)	Pontoon Beach	Madison
SA	05320	Y	Lebanon Ave. & West Blvd. (RR) (LED)	Belleville	St. Clair
SA	05330	Y	Lebanon Ave. & Old Collinsville Rd. (LED)	Belleville	St. Clair
SA	05332	Y	Lebanon Ave. & Southwind Dr. (LED)	Belleville- (NW of)	St. Clair
SA	05335	Y	Lebanon Ave. & Hartman Ln. (LED)	Shiloh	St. Clair
SA	05337	Y	Lebanon Ave. & Sierra / Warrior Way (LED)	Shiloh	St. Clair
SA	05338	Y	Lebanon Ave. & N. Green Mount Rd. (LED)	Shiloh	St. Clair
SA	05340	Y	Lincoln Tr. & Potomac Dr./N. Point Dr.(LED)	Fairview Hts.	St. Clair
SA	05360	Y	Lincoln Tr. & Union Hill Rd./Mark Dr.(LED)	Fairview Hts.	St. Clair
SA	05380	Y	Lincoln Tr. & Ruby Ln.(LED)	Fairview Hts.	St. Clair
SA	05400	Y	Lincoln Tr. & Commerce Ln.(LED)	Fairview Hts.	St. Clair
SA	05420	Y	Lincoln Hwy & St. Clair Sq., W. Ent.(LED)	Fairview Hts.	St. Clair
SA	05440	Y	Lincoln Hwy & St. Clair Sq./Frey Ln.(LED)	Fairview Hts.	St. Clair
SA	05460	Y	Lincoln Hwy & St. Clair Sq., E. Ent.(LED)	Fairview Hts.	St. Clair
SA	05470	Y	Lincoln Hwy. & Lexington / Aubuchon (LED)	Fairview Hts.	St. Clair
SA	05480	Y	Lincoln Hwy & Old Collinsville Rd. (LED)	O'Fallon & Fairview Hgts	St. Clair

Traffic Signals					
District	Intersection #	LED	Intersection ID	Area	County
CA	05500	Y	Main St. & Seminary St. (LED)	Collinsville	Madison
CA	05520	Y	Main St. & St.Louis Ave. (LED)	Collinsville	Madison
SA	05540	Y	N. Belt W. & W. Main St. (LED)	Belleville	St. Clair
SA	05560	Y	N. Belt W. & Royal Hts. Rd./37th St. (LED)	Belleville	St. Clair
SA	05580	Y	N. Belt W. & Buckingham/Canterbury Dr. (LED)	Belleville	St. Clair
SA	05590	Y	N. Main St. & E. Carondelet Rd./Dyroff St. (RR) (LED)	Dupo	St. Clair
CA	05595	Y	Pontoon Rd. & Missouri Ave. (RR) (LED)	Granite City	Madison
CA	05600	Y	Pontoon Rd. & Maryville Rd. (LED)	Granite City	Madison
SA	05620	Y	St. Clair Ave. & Bunkum Rd.(LED)	Fairview Hts.	St. Clair
SA	05700	Y	State St. & I-255, E. Jct.(LED)	E. St. Louis	St. Clair
SA	05720	Y	State St. & I-255, W. Jct.(LED)	E. St. Louis	St. Clair
SA	05730	Y	West Blvd. & Old Collinsville Rd./Mallard Dr. (LED)	Belleville	St. Clair
CA	05740	N	I-64 (EB) Weigh Station	O'Fallon- (South of)	St. Clair
CA	05760	N	I-55/70 (WB) Weigh Station	Maryville	Madison
CA	06000	Y	US 51 (Poplar) & IL 161 (McCord)	Centralia	Marion
CA	06001	Y	US 51 (Poplar) & IL 161 (Noleman)	Centralia	Marion
CA	06002	Y	US 51 (Poplar) & Broadway	Centralia	Marion
CA	06003	Y	US 51 (Poplar) & Second	Centralia	Marion
CA	06004	Y	US 51 (Poplar) & Calumet	Centralia	Marion
CA	06005	Y	US 51 (Elm) & IL 161 (McCord)	Centralia	Marion
CA	06006	Y	US 51 (Elm) & IL 161 (Noleman)	Centralia	Marion
CA	06007	Y	US 51 (Elm) & Broadway	Centralia	Marion
CA	06008	Y	US 51 (Elm) & Second	Centralia	Marion
CA	06009	Y	US 51 (Elm) & Calumet	Centralia	Marion
CA	06010	Y	IL 161 (Noleman) & Walnut	Centralia	Marion
CA	06011	Y	IL 161 (Noleman) & Locust	Centralia	Marion
CA	06012	Y	IL 161 (Noleman) & Lincoln	Centralia	Marion
CA	06013	Y	IL 161 (McCord) & Lincoln	Centralia	Marion
CA	06014	Y	IL 161 (McCord) & Pleasant	Centralia	Marion
CA	06015	Y	IL 161 (McCord) & Airport Road	Centralia	Marion
CA	06016	Y	IL 161 (McCord) & Broadway	Centralia	Clinton
CA	06017	Y	IL 161 (McCord) & Brooks	Centralia	Clinton
SA	09999	N	IDOT 8 TM Building	Fairview Heights	St. Clair



HIGHWAY LIGHTING LOCATIONS

Highway Lighting		
Sheet #	Area	Location
000	SA	Poplar Street Bridge (Mo. Highway Dept. Maint.)
001	SA	Poplar Street Bridge
002	SA	I-55/70 Mainline, C-D, IL 3 Ramps
003	SA	IL 3 Ramps
004	SA	I-55/70 Mainline, C-D, Tudor/Piggott Ramps
005	SA	Tudor/Piggott Ramps
006	SA	I-55, 70 Mainline, C-D, Main St. & 4th St. Ramps
007		
008		
009	CA	McKinley Bridge Lighting - Mo Side (ALL LED)
009A	CA	McKinley Bridge - Missouri Side
009B	CA	McKinley Bridge - Missouri Side
009C	CA	McKinley Bridge - Missouri Side
009D	CA	McKinley Bridge - on bridge
009E	CA	McKinley Bridge - on bridge
009F	CA	McKinley Bridge - IL side
009G	CA	McKinley Bridge - IL side (Venice)
009H	CA	McKinley Bridge - IL side (Venice)
010	SA	Martin Luther King Bridge
010A	SA	Martin Luther King Bridge
010B	SA	Martin Luther King Bridge
010C	SA	Martin Luther King Bridge
011	SA	I-55/70 Broadway to I-64
012	SA	I-55/70 Broadway to I-64
013	SA	I-55/70 Broadway to I-64
014	SA	I-55/70 Broadway to I-64
015	SA	I-55/70 & I-64/ St. Clair Ave.
015A	CA	I-55/70 Mainline & Exchange Ave Overpass
016	CA	I-55/70 Mainline & Exchange Ave/B&O Overpass
016A	CA	I-55/70 Mainline & Exchange Ave/B&O Overpass
017	CA	I-55/70 & IL 203
017A	CA	I-55/70 & IL 203
018	CA	I-55/70 & IL 111 & Collinsville Rd., E.& W.Jct.
020	CA	Relocated IL 3 at Relocated I-70 Interchange (exit 2)
020A	CA	Relocated IL 3 at Relocated I-70 Interchange (exit 2)
020B	CA	Relocated I-70 between 1st & 2nd St (mp 2.4)

Highway Lighting		
Sheet #	Area	Location
020C	CA	Relocated I-70 & ramps to 55/70/64
021	CA	I-55/70 WB Weigh Stations
022	CA	I-55/70 & IL 157
023	CA	I-55/70 & IL 159
024	CA	I-55/70 & U.S. 40 (Formosa Jct.)
025	CA	I-55/70 & IL 162 (main part of intersection)
025A	CA	I-55/70 & IL 162 (on E side of IL 162)
025B	CA	I-55/70 & IL 162 (pn W side of IL 162)
025C	CA	I-55/70 & IL 162 (NB Mainline to ramp)
025D	CA	I-55/70 & IL 162 (NB Mainline to ramp)
025E	CA	I-55/70 & IL 162 (SB Mainline to ramp)
025F	CA	I-55/70 & IL 162 (SB Mainline to ramp)
026	NA	I-55, I-70 & I-270 (3-I)
027	NA	I-55 & IL 143
027A	NA	Homestead Rest Area (NB)
027B	NA	Homestead Rest Area (SB)
028	NA	I-55 & IL 140
029	NA	I-55 & IL 4
030	NA	I-55 & CH 3A (Livingston)
031	NA	I-270 & IL 3
032	NA	I-270 & IL 203
033	NA	I-270 & IL 111 Lighting
033A	NA	I-270 & IL 111
034	NA	I-270 & IL 157
034A	NA	I-270 & IL 157 - N. & S. of Interchange
034B	NA	I-270 & IL 157 -E.of Interchange
035	NA	I-270 & IL 159
036	NA	I-70 & IL 4
037	NA	I-70 & IL 143
038	NA	I-70 & Silver Lake Rest Area (WB)
038A	NA	I-70 & Silver Lake Rest Area (WB)
038B	NA	I-70 & Silver Lake Rest Area (EB)
039	NA	I-70 & US 40(Pierron)
040	NA	I-70 & CH 9 (Pocahontas)
041	NA	I-70 & CH 5A (SW of Greenville)
042	NA	I-70 & IL 127 (Greenville)
043	NA	I-70 & CH 10 (Mulberry Grove)

Highway Lighting		
Sheet #	Area	Location
044	SA	I-64 & St. Clair Ave. (E.St.L)
044A	SA	I-64 & St. Clair Ave Tower Lights
045	SA	I-64 & 15th ST. Ramps (E.St.L)
045A	SA	I-64 & 15th St Ramps Tower Lights
046	SA	I-64 & 16th St. Ramp (E.St.L)
046A	SA	I-64 & 16th St Ramps Tower Lights
047	SA	I-64 & Baugh Ave. Ramp (E.St.L)
048	SA	I-64 & 25th St. Ramps (E.St.L)
048A	SA	I-64 & 25th St. Ramps (E.St.L)
048B	SA	I-64 & 25TH ST. RAMPS
049	SA	I-64 & Mainline between 25th St. & IL 111
050	SA	I-64 & IL 111 & Bunkum Rd. (Washington Park)
052	CA	I-64 & IL 157 (Caseyville)
053	CA	I-64 & IL 159 (Fairview Hgts)
053A	CA	I-64 & IL 159
054	CA	I-64 & Lincoln Hwy (O'Fallon) North
054A	CA	I-64 & Lincoln Hwy (O'Fallon) South
055	CA	I-64 & Weigh Station (E.B)
056	CA	I-64 & IL 158 (N.1/2)
056A	CA	I-64 & IL 158 (S.1/2)
057	CA	I-64 & IL 4
058	CA	I-64 & Gateway Rest Area W.B.
058A	CA	I-64 & Gateway Rest Area W.B.
058B	CA	I-64 & Gateway Rest Area E.B.
058C	CA	I-64 & Gateway Rest Area E.B.
059	CA	I-64 & IL 161
060	CA	I-64 & CH 23 (Damiansville)
061	CA	I-64 & IL 177 (Okawville)
062	CA	I-64 & IL 127 (Nashville)
063	CA	I-64 & US 51 (Ashley/Centralia)
064	CA	I-64 & Green Mount Road
065	CA	I-64 & Reider Rd, ramps A/B - N jct., ramps C/D - S. jct.
097	NA	I-270, Mississippi River Bridge to IL 3, Mainline (index)
097A	NA	I-270, Mississippi River Bridge to IL 3, Mainline (Nav too)
097B	NA	I-270, MRB to IL 3 Mainline
097C	NA	I-270, MRB to IL 3 Mainline
097D	NA	I-270 over Canal Bridge

Highway Lighting		
Sheet #	Area	Location
097E	NA	I-270 Mainline to IL 3
097F	NA	I-270 Mainline to IL 3 (west part)
097G	NA	I-270 & IL 3 south part
097H	NA	I-270 & IL 3 north part
097I	NA	I-270 & IL 3 north part
100	SA	IL 3 & IL 158
101	SA	IL 3 & Stolle Rd. (N. Dupo)
102	CA	IL 3 & Pontoon Rd.
103	NA	IL 3 & IL 143
104	SA	IL 4 & IL 13 (S.Jct.)(Tilden)
104A	SA	IL 4 & IL 13 (Marissa)
105	SA	IL 161 & 6th St.
106	SA	IL 4 & IL 161
107	CA	Collinsville Rd. & Black Lane
108		
109	CA	IL 111 & Horseshoe Lake Rd.
110	NA	IL 111 & IL 140, (E Jct.)
112	NA	IL 111, 140 & Powder Mill Road
113	CA	IL 157 & Bunkum Rd. (Caseyville) (LED)
114		
116	SA	IL 158 & IL 177
117	SA	IL 158 & Seibert Rd.
118	SA	IL 158 & Wherry Rd. (Future)
119	SA	IL 161 & Green Mount Rd. (Future)
120	SA	IL 177 & Green Mount Rd. (Future)
121	SA	IL 15 & IL 157
121A	SA	IL 15 & IL 157
122	SA	IL 15 & Shrine Entrance
123	SA	IL 15 & IL 13
123A	SA	IL 15 & IL 13 Ramps
124	SA	IL 15 & IL 159
125	SA	IL 15 & U.S. 51, W Jct.
126	SA	IL 15 & U.S. 51, E Jct.
127	SA	79th St. & St. Clair Ave.
128	SA	IL 157 & St. Clair Ave. (Fairview Hgts) (LED)
130		
131	SA	IL 161 & N. Belt West & W. of Morgan St.(Sign Trusses)

Highway Lighting		
Sheet #	Area	Location
132	NA	US 67 & Godfrey Rd.(sign truss)
133	CA	IL 203 & Maryville Rd.(sign trusses)
135	NA	Brussels Ferry Loop (also sheet F101)
135A	NA	Brussels Ferry Ramp (also sheet F101)
136	NA	IL 100 - Joe Page Bridge (Hardin) (LED)
138	CA	IL 157 & St. Louis Rd.& Collinsville Rd
139	SA	IL 15 & 74th St.
140	CA	IL 162 & Horseshoe Lake Rd/Mockingbird Ln (CH 35)
141A	SA	IL 15 & IL 158 Roundabouts
141B	SA	IL 15 & IL 158 Roundabouts
141C	SA	IL 15 & IL 158 Roundabouts
142	SA	IL 15 & Pocket Rd/Lakewood Pl
143	SA	IL 3 & Palmer Rd. (Columbia)
144	SA	IL 3 & N. Main St. (Columbia)
145	NA	IL 140 & IL 159 (LED)
146	SA	Jefferson Barracks Bridge (Mo. Hwy. Dept. Maint)
147	NA	Clark Bridge - ALL LED
147A	NA	Clark Bridge
147B	NA	Clark Bridge
147C	NA	Clark Bridge
147D	NA	Clark Bridge
147E	NA	Clark Bridge
148	NA	Clark Bridge Sign Trusses (not LED)
149	CA	IL 3 & Broadway Sign Truss (Venice)
150	NA	IL 3 & Broadway Sign Trusses (Alton)
201	SA	I-255 & IL 3 East From J.B.Bridge
202	SA	I-255 & IL 3 Interchange @ Columbia
203	SA	I-255 & Old IL 3 (Columbia)
204	SA	I-255 & IL 3, S.E. Dupo (FA 410)
205	SA	I-255 & IL 3, N.E. Dupo (S.1/2)
206	SA	I-255 & IL 3, N.E. Dupo (N.1/2)
207	SA	I-255 Mainline - Dupo to Cahokia
208	SA	I-255 Mainline -Cahokia To Alorton
209	SA	I-255 & IL 157 (Cahokia)
210	SA	I-255 & IL 15 (On IL 15)
211	SA	I-255 & IL 15 Interchange
212	SA	I-255 Mainline (IL 15 to State St.)

Highway Lighting		
Sheet #	Area	Location
213	SA	I-255 & State St. (E.St.L)
214	SA	I-255 & I-64 (State St. to I-64)
215	SA	I-255 & I-64 (SW 1/4)
216	SA	I-255 & I-64 (NE 1/4)
217	SA	I-255 & I-64 (SE 1/4)
218	SA	I-255 & I-64 (NW 1/4)
219	SA	I-255 & I-64 Mainline, E & W of I-255
220	CA	I-255 & Mainline (I-64 to Forrest Blvd.)
221	CA	I-255 & Mainline (Forrest Blvd to Collinsville Rd)
222	CA	I-255 & Collinsville Rd. (Collinsville)
223	CA	I-255 & Mainline (Collinsville Rd to I-55/70)
224	CA	I-255 & I-55/70
225	CA	I-55/70 & Black Lane
226	CA	I-255 & I-55/70 (West 1/2)
227	CA	I-255 & I-55/70 (East 1/2)
228	CA	I-55/70 & I 255 Interchange
229	CA	I-255 & I-55/70 Underpass Ltg.
230	CA	I-255 Mainline - N. of I-55/70
231	CA	I-255 & Horseshoe Lake Road
232	CA	I-255 Mainline - N of Horseshoe Lake Rd.
233	CA	I-255 Mainline-So.of IL.162
234	CA	I-255 & IL 162
234A	CA	I-255 & IL 162
235	NA	I-255 Mainline N. of IL 162
236	NA	I-255 & I-270 SE & SW Quads
237	NA	I-255 & I-270 NE & NW Quads
238	NA	I-255 & I-270 NW & SW Ramps & M.L. I-270
239	SA	I-255 & Bond Avenue (Under Bridge)
240	SA	I-255 & Mousette Lane
241	NA	IL 255 & I-270 [INDEX]
241A	NA	I-255 & I-270
241B	NA	I-255 & I-270
241C	NA	I-255 & I-270
241D	NA	I-255 & I-270
241E	NA	I-255 & I-270
241F	NA	I-255 & I-270
241G	NA	I-255 & I-270

Highway Lighting		
Sheet #	Area	Location
241H	NA	I-255 & I-270
241I	NA	I-255 & I-270
241J	NA	I-255 & I-270
241K	NA	I-255 & I-270
241L	NA	I-255 & I-270
241M	NA	I-255 & I-270 (2 SHEETS)
241N	NA	I-255 & I-270
241O	NA	I-255 & I-270
241P	NA	I-255 & I-270
241Q	NA	I-255 & I-270
242	NA	IL 255 & New Poag Rd. [INDEX]
242A	NA	IL 255 & New Poag Rd.
242B	NA	IL 255 & New Poag Rd.
242C	NA	IL 255 & New Poag Rd.
242D	NA	IL 255 & Gateway Commerce Center
242E	NA	IL 255 & Gateway Commerce Center
243	NA	IL 255 & Madison Ave. [INDEX]
243A	NA	IL 255 & Madison Ave.
243B	NA	IL 255 & Madison Ave.
243C	NA	IL 255 & Madison Ave.
244	NA	IL 255 & IL 143 [INDEX]
244A	NA	IL 255 & IL 143
244B	NA	IL 255 & IL 143
244C	NA	IL 255 & IL 143
244D	NA	IL 255 & IL 143
244E	NA	IL 255 & IL 143
245	NA	IL 255 & I-270 & IL 157 [INDEX]
245A	NA	IL 255 & I-270 & IL 157
245B	NA	IL 255 & I-270 & IL 157
245C	NA	IL 255 & I-270 & IL 157
245D	NA	IL 255 & I-270 & IL 157
245E	NA	IL 255 & I-270 & IL 157
300	CA	US 50 & I-57 - Salem
301	CA	US 50 & Baldrige Road - Salem
302	CA	US 50 & Hotze Road - Salem
303	CA	US 50 & Iuka Rd. / Omega Rd., North of Iuka
305	CA	I-57 & Exit 127 South of Kinmundy

Highway Lighting		
Sheet #	Area	Location
310	CA	Post Oak Rest Area NB I-57 - Salem
311	CA	Post Oak Rest Area SB I-57 - Salem
350	CA	US 51 & Walnut Road, Centralia
352	CA	US 51 & Greenview Road, Wamac
F100	NA	Kampsville Ferry Lighting
F101	NA	Brussels Ferry Lighting
M1000	SA	Belleville Yard Lighting
M111	CA	Carlyle Yard Lighting
M161	CA	IL 161 & I-57 - East of Centralia
M222	CA	Salem Yard Lighting
M333	SA	Nashville Yard Lighting
M350	NA	Highland Yard lighting
M390	NA	Pierron Yard Lighting
M444	CA	Scott Dome Lighting
M500	NA	Mitchell Yard Lighting
M520	NA	Greenville Yard Lighting
M550	NA	Wood River Yard Lighting
M555	NA	Hamel Yard Lighting
M600	NA	Godfrey Yard Lighting
M777	CA	West Noleman Street Underpass - Centralia
M778	CA	West McCord Street Overpass - Centralia
M888	CA	Troy Yard Lighting
M900	SA	Columbia Yard Lighting
M950	SA	Hecker Yard Lighting
M999	SA	Bowman Yard Lighting

STATUS OF UTILITIES TO BE ADJUSTED

NO UTILITIES TO BE ADJUSTED

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

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

COMPENSABLE DELAY COSTS (BDE)

Effective: June 2, 2017

Revised: April 1, 2019

Revise Article 107.40(b) of the Standard Specifications to read:

“(b) Compensation. Compensation will not be allowed for delays, inconveniences, or damages sustained by the Contractor from conflicts with facilities not meeting the above definition; or if a conflict with a utility in an unanticipated location does not cause a shutdown of the work or a documentable reduction in the rate of progress exceeding the limits set herein. The provisions of Article 104.03 notwithstanding, compensation for delays caused by a utility in an unanticipated location will be paid according to the provisions of this Article governing minor and major delays or reduced rate of production which are defined as follows.

- (1) Minor Delay. A minor delay occurs when the work in conflict with the utility in an unanticipated location is completely stopped for more than two hours, but not to exceed two weeks.
- (2) Major Delay. A major delay occurs when the work in conflict with the utility in an unanticipated location is completely stopped for more than two weeks.
- (3) Reduced Rate of Production Delay. A reduced rate of production delay occurs when the rate of production on the work in conflict with the utility in an unanticipated location decreases by more than 25 percent and lasts longer than seven calendar days.”

Revise Article 107.40(c) of the Standard Specifications to read:

“(c) Payment. Payment for Minor, Major, and Reduced Rate of Production Delays will be made as follows.

- (1) Minor Delay. Labor idled which cannot be used on other work will be paid for according to Article 109.04(b)(1) and (2) for the time between start of the delay and the minimum remaining hours in the work shift required by the prevailing practice in the area.

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

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

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

- (3) Reduced Rate of Production Delay. The Contractor will be compensated for the reduced productivity for labor and equipment time in excess of the 25 percent threshold for that portion of the delay in excess of seven calendar days. Determination of

compensation will be in accordance with Article 104.02, except labor and material additives will not be permitted.

Payment for escalated material costs, escalated labor costs, extended project overhead, and extended traffic control will be determined according to Article 109.13.”

Revise Article 108.04(b) of the Standard Specifications to read:

“(b) No working day will be charged under the following conditions.

- (1) When adverse weather prevents work on the controlling item.
- (2) When job conditions due to recent weather prevent work on the controlling item.
- (3) When conduct or lack of conduct by the Department or its consultants, representatives, officers, agents, or employees; delay by the Department in making the site available; or delay in furnishing any items required to be furnished to the Contractor by the Department prevents work on the controlling item.
- (4) When delays caused by utility or railroad adjustments prevent work on the controlling item.
- (5) When strikes, lock-outs, extraordinary delays in transportation, or inability to procure critical materials prevent work on the controlling item, as long as these delays are not due to any fault of the Contractor.
- (6) When any condition over which the Contractor has no control prevents work on the controlling item.”

Revise Article 109.09(f) of the Standard Specifications to read:

“(f) Basis of Payment. After resolution of a claim in favor of the Contractor, any adjustment in time required for the work will be made according to Section 108. Any adjustment in the costs to be paid will be made for direct labor, direct materials, direct equipment, direct jobsite overhead, direct offsite overhead, and other direct costs allowed by the resolution. Adjustments in costs will not be made for interest charges, loss of anticipated profit, undocumented loss of efficiency, home office overhead and unabsorbed overhead other than as allowed by Article 109.13, lost opportunity, preparation of claim expenses and other consequential indirect costs regardless of method of calculation.

The above Basis of Payment is an essential element of the contract and the claim cost recovery of the Contractor shall be so limited.”

Add the following to Section 109 of the Standard Specifications.

“**109.13 Payment for Contract Delay.** Compensation for escalated material costs, escalated labor costs, extended project overhead, and extended traffic control will be allowed when such costs result from a delay meeting the criteria in the following table.

Contract Type	Cause of Delay	Length of Delay
Working Days	Article 108.04(b)(3) or Article 108.04(b)(4)	No working days have been charged for two consecutive weeks.
Completion Date	Article 108.08(b)(1) or Article 108.08(b)(7)	The Contractor has been granted a minimum two week extension of contract time, according to Article 108.08.

Payment for each of the various costs will be according to the following.

- (a) Escalated Material and/or Labor Costs. When the delay causes work, which would have otherwise been completed, to be done after material and/or labor costs have increased, such increases will be paid. Payment for escalated material costs will be limited to the increased costs substantiated by documentation furnished by the Contractor. Payment for escalated labor costs will be limited to those items in Article 109.04(b)(1) and (2), except the 35 percent and 10 percent additives will not be permitted.
- (b) Extended Project Overhead. For the duration of the delay, payment for extended project overhead will be paid as follows.
 - (1) Direct Jobsite and Offsite Overhead. Payment for documented direct jobsite overhead and documented direct offsite overhead, including onsite supervisory and administrative personnel, will be allowed according to the following table.

Original Contract Amount	Supervisory and Administrative Personnel
Up to \$5,000,000	One Project Superintendent
Over \$ 5,000,000 - up to \$25,000,000	One Project Manager, One Project Superintendent or Engineer, and One Clerk
Over \$25,000,000 - up to \$50,000,000	One Project Manager, One Project Superintendent, One Engineer, and One Clerk
Over \$50,000,000	One Project Manager, Two Project Superintendents, One Engineer, and One Clerk

- (2) Home Office and Unabsorbed Overhead. Payment for home office and unabsorbed overhead will be calculated as 8 percent of the total delay cost.
- (c) Extended Traffic Control. Traffic control required for an extended period of time due to the delay will be paid for according to Article 109.04.

When an extended traffic control adjustment is paid under this provision, an adjusted unit price as provided for in Article 701.20(a) for increase or decrease in the value of work by more than ten percent will not be paid.

Upon payment for a contract delay under this provision, the Contractor shall assign subrogation rights to the Department for the Department’s efforts of recovery from any other party for monies paid by the Department as a result of any claim under this provision. The Contractor shall fully cooperate with the Department in its efforts to recover from another party any money paid to the Contractor for delay damages under this provision.”

CONSTRUCTION AIR QUALITY – DIESEL RETROFIT (BDE)

Effective: June 1, 2010

Revised: November 1, 2014

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

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

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

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

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

- a) Included on the U.S. Environmental Protection Agency (USEPA) *Verified Retrofit Technology List* (<http://www.epa.gov/cleandiesel/verification/verif-list.htm>), or verified by the California Air Resources Board (CARB) (<http://www.arb.ca.gov/diesel/verdev/vt/cvt.htm>); or
- b) Retrofitted with a non-verified diesel retrofit emission control device if verified retrofit emission control devices are not available for equipment proposed to be used on the

project, and if the Contractor has obtained a performance certification from the retrofit device manufacturer that the emission control device provides a minimum PM emission reduction of 50 percent.

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

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

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

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

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

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

Diesel Retrofit Deficiency Deduction

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

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

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

DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION (DBE)

Effective: September 1, 2000

Revised: March 2, 2019

FEDERAL OBLIGATION. The Department of Transportation, as a recipient of federal financial assistance, is required to take all necessary and reasonable steps to ensure nondiscrimination in the award and administration of contracts. Consequently, the federal regulatory provisions of 49 CFR Part 26 apply to this contract concerning the utilization of disadvantaged business enterprises. 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.

CONTRACTOR ASSURANCE. The Contractor makes the following assurance and agrees to include the assurance in each subcontract 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, which may include, but is not limited to:

- (a) Withholding progress payments;
- (b) Assessing sanctions;
- (c) Liquidated damages; and/or
- (d) Disqualifying the Contractor from future bidding as non-responsible.

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 the work of this contract has subcontracting opportunities that

may be suitable for performance by DBE companies. The 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, in the absence of unlawful discrimination and in an arena of fair and open competition, DBE companies can be expected to perform **0.00%** of the work. This percentage is set as the DBE participation goal for this contract. Consequently, in addition to the other award criteria established for this contract, the Department will only award this contract to a bidder who makes a good faith effort to meet this goal of DBE participation in the performance of the work. A bidder makes a good faith effort for award consideration if either of the following is done in accordance with the procedures set for in this Special Provision:

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

DBE LOCATOR REFERENCES. Bidders 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 website at: <http://www.idot.illinois.gov/doing-business/certifications/disadvantaged-business-enterprise-certification/il-ucp-directory/index>.

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

The bidder shall submit a DBE Utilization Plan (form SBE 2026), and a DBE Participation Statement (form SBE 2025) for each DBE company proposed for the performance of work to achieve the contract goal, with the bid. If the Utilization Plan indicates the contract goal will not be met, documentation of good faith efforts shall also be submitted. The documentation of good faith efforts must include copies of each DBE and non-DBE subcontractor quote submitted to the bidder when a non-DBE subcontractor is selected over a DBE for work on the contract. The required forms and documentation must be submitted as a single .pdf file using the "Integrated Contractor Exchange (iCX)" application within the Department's "EBids System".

The Department will not accept a Utilization Plan if it does not meet the bidding procedures set forth herein and the bid will be declared not responsive. In the event the bid is declared not responsive, the Department may elect to cause the forfeiture of the penal sum of the bidder's proposal guaranty and may deny authorization to bid the project if re-advertised for bids.

GOOD FAITH EFFORT PROCEDURES. The contract will not be awarded until the Utilization Plan is approved. All information submitted by the bidder must be complete, accurate and adequately document enough DBE participation has been obtained or document the good faith efforts of the bidder, in the event enough DBE participation has not been obtained, before the Department will commit to the performance of the contract by the bidder. The Utilization Plan will be approved by the Department if the Utilization Plan documents sufficient commercially useful DBE work 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. This means 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 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 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. In accordance with the above Bidding Procedures, the documentation of good faith efforts must include copies of each

DBE and non-DBE subcontractor quote submitted to the bidder when a non-DBE subcontractor was selected over a DBE for work on the contract.

- (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 the 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 it is otherwise eligible for award. If the Department determines the bidder has failed to meet the requirements of this Special Provision or that a good faith effort has not been made, the Department will notify the responsible company official designated in the Utilization Plan that the bid is not responsive. The notification will also include a statement of reasons for the adverse determination. If the Utilization Plan is not approved because it is deficient as a technical matter, unless waived by the Department, the bidder will be notified and will be allowed no more than a five calendar day period to cure the deficiency.
- (c) The bidder may request administrative reconsideration of an adverse determination by emailing the Department at "DOT.DBE.UP@illinois.gov" within the five calendar days after the receipt of the notification of the determination. The determination shall become final if a request is not made on or before the fifth calendar day. A request may provide additional written documentation 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 reviewed by the Department's Reconsideration Officer. The Reconsideration Officer will extend an opportunity to the bidder to meet in person to consider all issues of documentation and whether the bidder made a good faith effort to meet the goal. After the review by the Reconsideration Officer, the bidder will be sent a written decision within ten working days after receipt of the request for reconsideration, explaining the basis for finding that the bidder did or did not meet the goal or make adequate good faith efforts to do so. A final decision by the Reconsideration Officer that a good faith effort was made shall approve the Utilization Plan submitted by the bidder and shall clear the contract for award. A final decision that a good faith effort was not made shall render the bid not responsive.

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 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 contract. 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 is 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 of 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 DBE regular dealer or DBE 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 DBE Participation Commitment Statement.

- (a) NO AMENDMENT. 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 emailed to the Department at DOT.DBE.UP@illinois.gov.
- (b) CHANGES TO WORK. 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 or AER 260A, must be signed and submitted. If the commitment of work is in the form of additional tasks assigned to an existing subcontract, a new Request for Approval of Subcontractor will not be required. However, the Contractor must document efforts to assure the existing DBE subcontractor is capable of performing the additional work and has agreed in writing to the change.
- (c) SUBCONTRACT. The Contractor must provide copies of DBE subcontracts to the Department upon request. Subcontractors shall ensure that all lower tier subcontracts or agreements with DBEs to supply labor or materials be performed in accordance with this Special Provision.
- (d) ALTERNATIVE WORK METHODS. 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) 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) The DBE is aware 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) The DBE is not capable of performing the replacement work or has declined to perform the work at a reasonable 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 listed on the approved Utilization Plan, or perform with other forces work designated for a listed DBE except as provided in this Special Provision. The Contractor shall utilize the specific DBEs listed to perform the work and supply the materials for which each is listed unless the Contractor obtains the Department's written consent as provided in subsection (a) of this part. Unless Department consent is provided for termination of a DBE subcontractor, the Contractor shall not be entitled to any payment for work or material unless it is performed or supplied by the DBE in the Utilization Plan.

As stated above, 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 Contractor;
- (3) The listed DBE subcontractor fails or refuses to meet the 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 2 CFR Parts 180, 215 and 1200 or applicable state law.
- (6) The Contractor has determined the listed DBE subcontractor is not a responsible contractor;
- (7) The listed DBE subcontractor voluntarily withdraws from the projects and provides written notice to the Contractor 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 subcontractor 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 Contractor seeks to terminate a DBE it relied upon to obtain the contract so that the Contractor can self-perform the work for which the DBE contractor was engaged or so that the 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. The good faith efforts shall be documented by the Contractor. If the Department requests documentation under this provision, the Contractor shall submit the documentation within seven days, which may be extended for an additional seven days if necessary at the request of the Contractor. The Department will provide a written determination to the Contractor stating whether or not good faith efforts have been demonstrated.

- (f) FINAL PAYMENT. 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 30 calendar days after payment has been made by the Department to the Contractor for such work or material, the Contractor shall submit a DBE Payment Agreement on Department form SBE 2115 to the Resident 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 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) ENFORCEMENT. 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) RECONSIDERATION. Notwithstanding any other provision of the contract, including but not limited to Article 109.09 of the Standard Specifications, the Contractor may request administrative reconsideration of a decision to deduct the amount of the goal not achieved as liquidated damages. A request to reconsider shall be delivered to the Contract Compliance Section and shall be handled and considered in the same manner as set forth in paragraph (c) of "Good Faith Effort Procedures" of this Special Provision, except a final decision that a good faith effort was not made during contract performance to achieve the goal agreed to in the Utilization Plan shall be the final administrative decision of the

Department. The result of the reconsideration process is not administratively appealable to the U.S. Department of Transportation.

DISPOSAL FEES (BDE)

Effective: November 1, 2018

Replace Articles 109.04(b)(5) – 109.04(b)(8) of the Standard Specifications with the following:

- “(5) Disposal Fees. When the extra work performed includes paying for disposal fees at a clean construction and demolition debris facility, an uncontaminated soil fill operation or a landfill, the Contractor shall receive, as administrative costs, an amount equal to five percent of the first \$10,000 and one percent of any amount over \$10,000 of the total approved costs of such fees.
- (6) Miscellaneous. No additional allowance will be made for general superintendence, the use of small tools, or other costs for which no specific allowance is herein provided.
- (7) Statements. No payment will be made for work performed on a force account basis until the Contractor has furnished the Engineer with itemized statements of the cost of such force account work. Statements shall be accompanied and supported by invoices for all materials used and transportation charges. However, if materials used on the force account work are not specifically purchased for such work but are taken from the Contractor’s stock, then in lieu of the invoices, the Contractor shall furnish an affidavit certifying that such materials were taken from his/her stock, that the quantity claimed was actually used, and that the price and transportation claimed represent the actual cost to the Contractor.

Itemized statements at the cost of force account work shall be detailed as follows.

- a. Name, classification, date, daily hours, total hours, rate, and extension for each laborer and foreman. Payrolls shall be submitted to substantiate actual wages paid if so requested by the Engineer.
 - b. Designation, dates, daily hours, total hours, rental rate, and extension for each unit of machinery and equipment.
 - c. Quantities of materials, prices and extensions.
 - d. Transportation of materials.
 - e. Cost of property damage, liability and workmen’s compensation insurance premiums, unemployment insurance contributions, and social security tax.
- (8) Work Performed by an Approved Subcontractor. When extra work is performed by an approved subcontractor, the Contractor shall receive, as administrative costs, an amount equal to five percent of the total approved costs of such work with the minimum payment being \$100.
- (9) All statements of the cost of force account work shall be furnished to the Engineer not later than 60 days after receipt of the Central Bureau of Construction form “Extra Work Daily Report”. If the statement is not received within the specified time frame, all demands for

payment for the extra work are waived and the Department is released from any and all such demands. It is the responsibility of the Contractor to ensure that all statements are received within the specified time regardless of the manner or method of delivery.”

LUMINAIRES, LED (BDE)

Effective: April 1, 2019

Description. This work shall consist of furnishing and installing light emitting diode (LED) luminaires. Work shall be according to Sections 801, 821, and 1067 of the Standard Specifications, except as modified herein.

Submittals. In addition to the requirements listed in Article 801.05(a), submittals for LED luminaires shall include the following.

- Completed manufacturer’s luminaire ordering form with the full catalog number provided.
- Descriptive literature and catalog cuts for the luminaire, driver, and surge protective device.
- Lighting calculations generated with AGi32 software demonstrating compliance with the Luminaire Performance Table shown in the contract. These calculations shall be performed to the following criteria: photopic units shall be used; calculations shall be performed to an accuracy of two digits (x.xx cd/m²); point-by-point illuminance, luminance, and veiling luminance ratios demonstrating that the submitted luminaire meets the lighting metrics specified in the Luminaire Performance Table using IES RP-8 methods.

Upon request by the Engineer, submittals for LED Luminaires shall also include any or all the following.

- IES file associated with each submitted luminaire in IES LM-63 format.
- TM-21 calculator spreadsheet (XLSX or PDF format) and if available, TM-28 report for the specified luminaire or luminaire family. Both reports shall be for 50,000 hours at an ambient temperature of 77 °F (25 °C).
- LM-79 report with National Voluntary Laboratory Accreditation Program (NVLAP) current at the time of testing in PDF format inclusive of the following: isofootcandle diagram with half candela contour and maximum candela point; polar plots through maximum plane and maximum cone; coefficient of utilization graph; candela table; and spectral distribution graph and chromaticity diagram.
- LM-80 report for the specified LED package in PDF format and if available, LM-84 report for the specified luminaire or luminaire family in PDF format. Both reports shall be conducted by a laboratory with NVLAP certification current at the time of testing.
- In Situ Temperature Measurement Test (ISTMT) report for the specified luminaire or luminaire family in PDF format.

- Vibration test report in accordance with ANSI C136.31 in PDF format.
- ASTM B117/ASTM D1654 (neutral salt spray) test and sample evaluation report in PDF format.
- ASTM G154 (ASTM D523) gloss test report in PDF format.
- LED drive current, total luminaire input wattage, and current over the operating voltage range at an ambient temperature of 77 °F (25 °C).
- Power factor (pf) and total harmonic distortion (THD) at maximum and minimum supply and at nominal voltage for the dimmed states of 70%, 50%, and 30% full power.
- Ingress protection (IP) test reports, conducted according to ANSI C136.25 requirements, for the driver and optical assembly in PDF format.
- Installation, maintenance, and cleaning instructions in PDF format, including recommendations on periodic cleaning methods.
- Documentation in PDF format that the reporting laboratory is certified to perform the required tests.

Warranty. Replace the last sentence of Article 801.14(a) with the following.

“The warranty, including the maintained minimum luminance, for LED signal head modules, optically programmed LED signal head modules, and LED pedestrian signal head modules shall cover a minimum of 60 months from the date of delivery. The warranty for LED roadway luminaires, LED highmast luminaires, LED underpass luminaires, LED sign lighting luminaires, LED obstruction warning luminaires, and all of their components shall cover a minimum of ten years from the date of delivery.”

Roadway Luminaires. Revise Article 821.02(d) to read.

“(d) Light Source1067.06”

Revise the third paragraph of Article 821.03 to read.

“Each luminaire driver and/or driver arrangement shall be checked to assure compatibility with the project power supply. When the luminaire driver has a readily accessible electrical compartment, the driver shall be attached so as to be easily removed for maintenance.”

Replace the fifth paragraph of Article 821.03 with the following.

“No luminaire shall be installed before it is approved. When independent luminaire testing is required, full approval will not be given until complete test results which demonstrate compliance with the contract documents have been reviewed and accepted by the Engineer. Independent luminaire testing will be required, and shall be conducted, according to Article 1067.01(k)”.

Revise the last paragraph of Article 821.03 to read.

“When installing or adjusting the luminaire, care shall be taken to avoid touching the lenses or allowing contaminants to be deposited on any part of the optical assembly. Each lens shall be free of all dirt, smudges, etc. Should the luminaire require cleaning, the luminaire manufacturer’s cleaning instructions shall be strictly followed.”

Revise Article 821.08 to read.

“821.08 Basis of Payment. This work will be paid for at the contract unit price per each for LUMINAIRE, LED, ROADWAY, of the output designation specified; LUMINAIRE, LED, HIGHMAST, of the output designation specified; LUMINAIRE, LED, UNDERPASS, WALLMOUNT, of the output designation specified; LUMINAIRE, LED, UNDERPASS, SUSPENDED, of the output designation specified; LUMINAIRE, LED, SIGN LIGHTING, of the output designation specified.

When independent luminaire testing is required, the work will be paid for at the contract lump sum price for INDEPENDENT LUMINAIRE TESTING.”

Luminaires. Revise Articles 1067.01 through 1067.06 to read.

“1067.01 General. The luminaire shall be mechanically strong and easy to maintain. The size, weight, and shape of the luminaire shall be designed so as not to incite detrimental vibrations in its respective pole and it shall be compatible with the pole and arm. All electrical and electronic components of the luminaire shall comply with the requirements of Restriction of Hazardous Materials (RoHS) regulations. The luminaire shall be listed for wet locations by an NRTL and shall meet the requirements of UL 1598 and UL 8750.

- (a) Labels. An internal label shall be provided indicating the luminaire is suitable for wet locations and indicating the luminaire is an NRTL listed product to UL1598 and UL8750. The internal label shall also comply with the requirements of ANSI C136.22.

An external label consisting of two black characters on a white background with the dimensions of the label and the characters as specified in ANSI C136.15 for HPS luminaires. The first character shall be the alphabetical character representing the initial lumen output as specified in Table 1 of Article 1067.06(c). The second character shall be the numerical character representing the transverse light distribution type as specified in IES RP-8 (i.e. Types 1, 2, 3, 4, or 5).

- (b) Surge Protection. The luminaire shall comply the requirements of ANSI C136.2 for electrical transient immunity at the “Extreme” level (20KV/10KA) and shall be equipped with a surge protective device (SPD) that is UL1449 compliant with indicator light. An SPD failure shall open the circuit to protect the driver.
- (c) Optical Assembly. The optical assembly shall have an IP66 or higher rating in accordance with ANSI C136.25. The circuiting of the LED array shall be designed to minimize the effect of individual LED failures on the operation of other LEDs. All optical components shall be made of glass or a UV stabilized, non-yellowing material.
- (d) Housing. All external surfaces shall be cleaned in accordance with the manufacturer’s recommendations and be constructed in such a way as to discourage the accumulation of water, ice, and debris.

- (e) Driver. The driver shall be integral to the luminaire and shall be capable of receiving indefinite open and short circuit output conditions without damage.

The driver shall incorporate the use of thermal foldback circuitry to reduce output current under abnormal driver case temperature conditions and shall be rated for a lifetime of 100,000 hours at an ambient temperature exposure of 77 °F (25 °C) to the luminaire. If the driver has a thermal shut down feature, it shall not turn off the LEDs when operated at 104 °F (40 °C) or less.

The driver shall have an input voltage range of 120 to 277 volts ($\pm 10\%$) or 347 to 480 volts ($\pm 10\%$) according to the contract documents. When the driver is operating within the rated input voltage range and in an un-dimmed state, the power factor measurement shall be not less than 0.9 and the THD measurement shall be no greater than 20%.

The driver shall meet the requirements of the FCC Rules and Regulations, Title 47, Part 15 for Class A devices with regard to electromagnetic compatibility. This shall be confirmed through the testing methods in accordance with ANSI C63.4 for electromagnetic interference.

The driver shall be dimmable using the protocol listed in the Luminaire Performance Table shown in the contract.

- (f) Photometric Performance. The luminaire shall be IES LM-79 tested by a laboratory holding accreditation from the NVLAP for IES LM-79 testing procedures. At a minimum the LM-79 report shall include a backlight/uplight/glare (BUG) rating and a luminaire classification system (LCS) graph showing lumen values and percent lumens by zone as described in IES RP-8. The uplight of the BUG rating shall be U=0.

The luminaire shall also meet the requirements of the Luminaire Performance Table shown in the contract.

- (g) Finish. The luminaire shall have a baked acrylic enamel finish. The color of the finish shall be gray, bronze, or black to match the pole or tower on which the luminaire is mounted.

The finish shall have a rating of six or greater according to ASTM D1654, Section 8.0 Procedure A – Evaluation of Rust Creepage for Scribed Samples after exposure to 1000 hours of testing according to ASTM B117 for painted or finished surfaces under environmental exposure.

The luminaire finish shall have less than or equal to 30% reduction of gloss according to ASTM D523 after exposure of 500 hours to ASTM G154 Cycle 6 QUV® accelerated weathering testing.

- (h) Hardware. All hardware shall be stainless steel or of other corrosion resistant material approved by the Engineer.

Luminaires shall be designed to be easily serviced, having fasteners such as quarter-turn clips of the heavy spring-loaded type with large, deep straight slot heads, complete with a receptacle and shall be according to military specification MIL-f-5591.

All hardware shall be captive and not susceptible to falling from the luminaire during maintenance operations. This shall include lens/lens frame fasteners as well hardware holding the removable driver and electronic components in place.

- (i) Vibration Testing. All luminaires shall be subjected to and pass vibration testing requirements at “3G” minimum zero to peak acceleration in accordance with ANSI C136.31 requirements using the same luminaire. To be accepted, the luminaire housing, hardware, and each individual component shall pass this test with no noticeable damage and the luminaire must remain fully operational after testing.
- (j) Wiring. All wiring in the luminaire shall be rated for operation at 600V, 221 °F (105 °C).
- (k) Independent Luminaire Testing. When a contract has 30 or more luminaires of the same manufacturer’s catalog number, that luminaire shall be independently tested to verify it will meet the contract requirements. The quantity of luminaires requiring testing shall be one luminaire for the first 30 plus one additional luminaire for each additional 50 luminaires of that catalog number. Testing is not required for temporary lighting luminaires.

Prior to testing the Contractor shall propose a properly accredited laboratory and a qualified independent witness, submitting their qualifications to the Engineer for approval. After approval, the Contractor shall coordinate the testing and pay all associated costs, including travel expenses, for the independent witness.

- (1) Independent Witness. The independent witness shall select from the project luminaires at the manufacturer’s facility the luminaires for testing. In all cases, the selection of luminaires shall be a random selection from the entire completed lot of luminaires required for the contract. Selections from partial lots will not be allowed. The independent witness shall mark each sample luminaire’s shipping carton with the IDOT contract number and a unique sample identifier.

At the time of random selection, the independent witness shall inspect the luminaire(s) for compliance with all physical, mechanical, and labeling requirements for luminaires according to Sections 821 and 1067. If deficiencies are found during the physical inspection, the Contractor shall have all luminaires of that manufacturer’s catalog number inspected for the identified deficiencies and shall correct the problem(s) where found. Random luminaire selection and physical inspection must then be repeated. When the physical inspection is successfully completed, the independent witness shall mark the project number and sample identifier on the interior housing and driver of the luminaires and have them shipped to the laboratory.

The independent witness shall be present when testing is approved to be performed by the luminaire manufacturer. If the tests are performed by a laboratory independent of the luminaire manufacturer, distributor, and Contractor, the independent witness need not be present during the testing.

- (2) Laboratory Testing. Luminaires shall be tested at an NVLAP accredited laboratory approved for each of the required tests. The testing shall include photometric, colorimetric, and electrical testing according to IES LM-79. Colorimetric values shall be determined from total spectral radiant flux measurements using a spectroradiometer. Photometric testing shall be according to IES recommendations and as a minimum, shall yield an isofootcandle chart, with max candela point and half candela trace indicated, an isocandela diagram, maximum plane and maximum cone

plots of candela, a candlepower table (house and street side), a coefficient of utilization chart, a luminous flux distribution table, BUG rating report, and complete calculations based on specified requirements and test results.

All testing shall cover the full spherical light output at a maximum of 5 degree intervals at the vertical angles. The vertical angles shall run from 0 to 180 degrees. There shall be a minimum of 40 lateral test planes listed in Fig. 1 of IES LM-31 plus the two planes containing the maximum candela on the left and right sides of the luminaire axis. Before testing, the luminaire when mounted on the goniometer shall be scanned for vertical and horizontal angles of maximum candela and these planes included in the test. The luminaire shall be checked for a bi-symmetric light distribution. Individual tests must be conducted for each hemisphere, quadrant, and left/right sides.

The results for each photometric and colorimetric test performed shall be presented in a standard IES LM-79 report that includes the contract number, sample identifier, and the outputs listed above. The calculated results for each sample luminaire shall meet or exceed the contract specified levels in the luminaire performance table(s). The laboratory shall mark its test identification number on the interior of each sample luminaire.

Electrical testing shall be in according to IES LM-79 as well as NEMA and ANSI standards. The report shall list luminaire characteristics including input amperes, watts, power factor, total harmonic distortion, and LED driver current for full and partial power.

- (3) Summary Test Report. The summary test report shall consist of a narrative documenting the test process, highlight any deficiencies and corrective actions, and clearly state which luminaires have met or exceeded the test requirements and may be released for delivery to the jobsite. Photographs shall also be used as applicable to document luminaire deficiencies and shall be included in the test report. The summary test report shall include the Luminaire Physical Inspection Checklist (form BDE 5650), photometric and electrical test reports, and point-by-point photometric calculations performed in AGi32 sorted by luminaire manufacturers catalog number. All test reports shall be certified by the independent test laboratory's authorized representative or the independent witness, as applicable, by a dated signature on the first page of each report. The summary test reports shall be delivered to the Engineer and the Contractor as an electronic submittal. Hard copy reports shall be delivered to the Engineer for record retention.
- (4) Approval of Independent Testing Results. Should any of the tested luminaires fail to satisfy the specifications and perform according to approved submittal information, all luminaires of that manufacturers catalog number shall be deemed unacceptable and shall be replaced by alternate equipment meeting the specifications. The submittal and testing process shall then be repeated in its entirety. The Contractor may request in writing that unacceptable luminaires be corrected in lieu of replacement. The request shall identify the corrections to be made and upon approval of the request, the Contractor shall apply the corrections to the entire lot of unacceptable luminaires. Once the corrections are completed, the testing process shall be repeated, including selection of a new set of sample luminaires. The number of luminaires to be tested shall be the same quantity as originally tested.

The process of retesting, correcting, or replacing luminaires shall be repeated until luminaires for each manufacturers catalog number are approved for the project. Corrections and re-testing shall not be grounds for additional compensation or extension of time. No luminaires shall be shipped from the manufacturer to the jobsite until all luminaire testing is completed and approved in writing.

Submittal information shall include a statement of intent to provide the testing as well as a request for approval of the chosen independent witness and laboratory. All summary test reports, written reports, and the qualifications of the independent witness and laboratory shall be submitted for approval to the Engineer with a copy to the Bureau of Design and Environment, 2300 S Dirksen Parkway, Room 330 Springfield, IL 62764.

1067.02 Roadway Luminaires. Roadway luminaires shall be according to Article 1067.01 and the following.

The luminaire shall be horizontally mounted and shall be designed to slip-fit on a 2-3/8 in. (60 mm) outside diameter pipe arm with a stop to limit the amount of insertion to 7 in. (180 mm). It shall not be necessary to remove or open more than the access door to mount the luminaire.

The effective projected area (EPA) of the luminaire shall not exceed 1.6 sq ft (0.149 sq m) and the weight, including accessories, shall not exceed 40 lb (18.14 kg). If the weight of the luminaire is less than 20 lb (9.07 kg), weight shall be added to the mounting arm or a supplemental vibration damper installed as approved by the Engineer.

The luminaire shall be equipped with both internal and external leveling indicators. The external leveling indicator shall be clearly visible in daylight to an observer directly under the luminaire at a mounting height of 50 ft (15.2 m).

The luminaire shall be fully prewired to accept a seven-pin, twist-lock receptacle that is compliant with ANSI C136.41. All receptacle pins shall be connected according to TALQ Consortium protocol.

The luminaire shall be provided with an installed shorting cap that is compliant with ANSI C136.10.

1067.03 Highmast Luminaires. Highmast luminaires shall be according to Article 1067.01 and the following.

The luminaire shall be horizontally mounted and shall be designed and manufactured for highmast tower use. The EPA of the luminaire shall not exceed 3.0 sq ft (0.279 sq m) and the weight, including accessories, shall not exceed 85 lb (38.6 kg).

The optical assembly shall be capable of being rotated 360 degrees. A vernier scale shall be furnished on the axis of rotation for aiming the luminaire in relation to its mounting tenon arm. The scale shall be graduated in 5 degree increments or less. The luminaire shall be clearly marked at the vernier as to 'house-side' and 'street-side' to allow proper luminaire orientation.

1067.04 Underpass Luminaires. Underpass luminaries shall be according to Article 1067.01 and the following.

The underpass luminaire shall be complete with all supports, hardware, and appurtenant mounting accessories. The underpass luminaire shall be suitable for lighting a roadway underpass at an approximate mounting height of 15 ft (4.5 m) from a position suspended directly above the roadway edge of pavement or attached to a wall or pier. The underpass luminaire shall meet the requirements of ANSI C136.27.

It shall not be necessary to remove more than the cover, reflector and lens to mount the luminaire. The unit shall be heavy duty, suitable for highway use and shall have no indentations or crevices in which dirt, salt, or other corrosives may collect.

- (a) Housing. The housing and lens frame shall be made of heavy duty die cast aluminum or 16 gauge (1.5 mm) minimum thickness Type 304 stainless steel. All seams in the housing enclosure shall be welded by continuous welds.

The housing shall have an opening for installation of a 3/4 in. (19 mm) diameter conduit.

- (b) Lens and Lens Frame. The frame shall not overlap the housing when closed. The luminaire shall have a flat glass lens to protect the LEDs from dirt accumulation or be designed to prevent dirt accumulation. The optic assembly shall be rated IP 66 or higher.

1067.05 Sign Lighting Luminaires. Sign lighting luminaries shall be suitable for lighting overhead freeway and expressway guide signs; and shall be according to Article 1067.01.

1067.06 Light Sources. The light sources in all luminaires shall be LED according to Article 1067.01 and the following.

- (a) The light source shall be according to ANSI C136.37 for solid state light sources used in roadway and area lighting.
- (b) The light source shall have a minimum color rendering index (CRI) of 70 and a nominal correlated color temperature (CCT) of 4000 K.
- (c) The rated initial luminous flux (lumen output) of the light source, as installed in the luminaire, shall be according to the following table for each specified output designation.

Output Designations and Initial Luminous Flux		<i>(for information only)</i>
Output Designation	Initial Luminous Flux (lm)	Approximate High Pressure Sodium (HPS) Equivalent Wattage
A	2,200	35 (Low Output)
B	3,150	50 (Low Output)
C	4,400	70 (Low Output)
D	6,300	100 (Low Output)
E	9,450	150 (Low Output)
F	12,500	200 (Med Output)
G	15,500	250 (Med Output)
H	25,200	400 (Med Output)
I	47,250	750 (High Output)
J	63,300	1,000 (High Output)
K	80,000+	1,000+ (High Output)

Luminaires with an initial luminous flux less than the values listed in the above table may be acceptable if they meet the requirements given in the Luminaire Performance Table shown in the contract.”

MOBILIZATION (BDE)

Effective: April 1, 2020

Replace Articles 671.02(a), (b), and (c) of the Standard Specifications with the following:

- “(a) Upon execution of the contract, 90 percent of the pay item will be paid.
- (b) When 90 percent of the adjusted contract value is earned, the remaining ten percent of the pay item will be paid along with any amount bid in excess of six percent of the original contract amount.”

REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES (BDE)

Effective: January 1, 2019

Revised: January 1, 2020

Revise Section 669 of the Standard Specifications to read:

“SECTION 669. REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES

669.01 Description. This work shall consist of the transportation and proper disposal of regulated substances. This work shall also consist of the removal, transportation, and proper disposal of underground storage tanks (UST), their contents and associated underground piping to the point where the piping is above the ground, including determining the content types and estimated quantities.

669.02 Equipment. The Contractor shall notify the Engineer of the delivery of all excavation, storage, and transportation equipment to a work area location. The equipment shall comply with OSHA and American Petroleum Institute (API) guidelines and shall be furnished in a clean condition. Clean condition means the equipment does not contain any residual material classified as a non-special waste, non-hazardous special waste, or hazardous waste. Residual materials include, but are not limited to, petroleum products, chemical products, sludges, or any other material present in or on equipment.

Before beginning any associated soil or groundwater management activity, the Contractor shall provide the Engineer with the opportunity to visually inspect and approve the equipment. If the equipment contains any contaminated residual material, decontamination shall be performed on the equipment as appropriate to the regulated substance and degree of contamination present according to OSHA and API guidelines. All cleaning fluids used shall be treated as the contaminant unless laboratory testing proves otherwise.

669.03 Pre-Construction Submittals and Qualifications. Prior to beginning this work, or working in areas with regulated substances, the Contractor shall submit a “Regulated Substances Pre-Construction Plan (RSPCP)” to the Engineer for review and approval using form BDE 2730. The form shall be signed by an Illinois licensed Professional Engineer or Professional Geologist.

As part of the RSPCP, the Contractor(s) or firm(s) performing the work shall meet the following qualifications.

- (a) Regulated Substances Monitoring. Qualification for environmental observation and field screening of regulated substances work and environmental observation of UST removal shall require either pre-qualification in Hazardous Waste by the Department or demonstration of acceptable project experience in remediation and operations for contaminated sites in accordance with applicable Federal, State, or local regulatory requirements using BDE 2730.

Qualification for each individual performing regulated substances monitoring shall require a minimum of one-year of experience in similar activities as those required for the project.

- (b) Underground Storage Tank Removal. Qualification for underground storage tank (UST) removal work shall require licensing and certification with the Office of the State Fire Marshall (OSFM) and possession of all permits required to perform the work. A copy of the permit shall be provided to the Engineer prior to tank removal.

The qualified Contractor(s) or firm(s) shall also document it does not have any current or former ties with any of the properties contained within, adjoining, or potentially affecting the work.

The Engineer will require up to 21 calendar days for review of the RSPCP. The review may involve rejection or revision and resubmittal; in which case, an additional 21 days will be required for each subsequent review. Work shall not commence until the RSPCP has been approved by the Engineer. After approval, the RSPCP shall be revised as necessary to reflect changed conditions in the field and documented using BDE 2730A "Regulated Substances Pre-Construction Plan (RSPCP) Addendum" and submitted to the Engineer for approval.

CONSTRUCTION REQUIREMENTS

669.04 Regulated Substances Monitoring. Regulated substances monitoring includes environmental observation and field screening during regulated substances management activities at the contract specific work areas. As part of the regulated substances monitoring, the monitoring personnel shall perform and document the applicable duties listed on form BDE 2732 "Regulated Substances Monitoring Daily Record (RSMDR)".

- (a) Environmental Observation. Prior to beginning excavation, the Contractor shall mark the limits of the contract specific work areas. Once work begins, the monitoring personnel shall be present on-site continuously during the excavation and loading of material.
- (b) Field Screening. Field screening shall be performed during the excavation and loading of material from the contract specific work areas, except for material classified according to Article 669.05(b)(1) or 669.05(c) where field screening is not required.

Field screening shall be performed with either a photoionization detector (PID) (minimum 10.6eV lamp) or a flame ionization detector (FID), and other equipment as appropriate, to monitor for potential contaminants associated with regulated substances. The PID or FID shall be calibrated on-site, and background level readings taken and recorded daily, and as field and weather conditions change. Field screen readings on the PID or FID in excess of background levels indicates the potential presence of regulated substances requiring handling as a non-special waste, special waste, or hazardous waste. PID or FID readings may be used as the basis of increasing the limits of removal with the approval of the Engineer but shall in no case be used to decrease the limits.

669.05 Regulated Substances Management and Disposal. The management and disposal of soil and/or groundwater containing regulated substances shall be according to the following:

- (a) Soil Analytical Results Exceed Most Stringent MAC. When the soil analytical results indicate detected levels exceed the most stringent maximum allowable concentration (MAC) for chemical constituents in soil established pursuant to Subpart F of 35 Ill. Adm. Code 1100.605, the soil shall be managed as follows:
 - (1) When analytical results indicate inorganic chemical constituents exceed the most stringent MAC, but still considered within area background levels by the Engineer, the excavated soil can be utilized within the right-of-way as embankment or fill, when

suitable. If the soils cannot be utilized within the right-of-way, they shall be managed and disposed of at a landfill as a non-special waste.

- (2) When analytical results indicate inorganic chemical constituents exceed the most stringent MAC but do not exceed the MAC for a Metropolitan Statistical Area (MSA) County identified in 35 Ill. Admin. Code 742 Appendix A. Table G, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of at a clean construction and demolition debris (CCDD) facility or an uncontaminated soil fill operation (USFO) within an MSA County provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.
 - (3) When analytical results indicate chemical constituents exceed the most stringent MAC but do not exceed the MAC for an MSA County excluding Chicago, or the MAC within the Chicago corporate limits, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of off-site at a CCDD facility or an USFO within an MSA County excluding Chicago or within the Chicago corporate limits provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.
 - (4) When analytical results indicate chemical constituents exceed the most stringent MAC but do not exceed the MAC for an MSA County excluding Chicago, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of off-site at a CCDD facility or an USFO within an MSA County excluding Chicago provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.
 - (5) When the Engineer determines soil cannot be managed according to Articles 669.05(a)(1) through (a)(4) above and the materials do not contain special waste or hazardous waste, as determined by the Engineer, the soil shall be managed and disposed of at a landfill as a non-special waste.
 - (6) When analytical results indicate soil is hazardous by characteristic or listing pursuant to 35 Ill. Admin. Code 721, contains radiological constituents, or the Engineer otherwise determines the soil cannot be managed according to Articles 669.05(a)(1) through (a)(5) above, the soil shall be managed and disposed of off-site as a special waste or hazardous waste as applicable.
- (b) Soil Analytical Results Do Not Exceed Most Stringent MAC. When the soil analytical results indicate that detected levels do not exceed the most stringent MAC, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of off-site according to Article 202.03. However, the excavated soil cannot be taken to a CCDD facility or an USFO for any of the following reasons.
- (1) The pH of the soil is less than 6.25 or greater than 9.0.
 - (2) The soil exhibited PID or FID readings in excess of background levels.
- (c) Soil Analytical Results Exceed Most Stringent MAC but Do Not Exceed Tiered Approach to Corrective Action Objectives (TACO) Residential. When the soil analytical results indicate that detected levels exceed the most stringent MAC but do not exceed TACO Tier 1 Soil Remediation Objectives for Residential Properties pursuant to 35 Ill. Admin. Code 742 Appendix B Table A, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of off-site according to

Article 202.03. However, the excavated soil cannot be taken to a CCDD facility or an USFO.

- (d) Groundwater. When groundwater analytical results indicate the detected levels are above Appendix B, Table E of 35 Ill. Admin. Code 742, the most stringent Tier 1 Groundwater Remediation Objectives for Groundwater Component of the Groundwater Ingestion Route for Class 1 groundwater, the groundwater shall be managed off-site as a special waste or hazardous waste as applicable. Special waste groundwater shall be containerized and trucked to an off-site treatment facility, or may be discharged to a sanitary sewer or combined sewer when permitted by the local sewer authority. Groundwater discharged to a sanitary sewer or combined sewer shall be pre-treated to remove particulates and measured with a calibrated flow meter to comply with applicable discharge limits. A copy of the permit shall be provided to the Engineer prior to discharging groundwater to the sanitary sewer or combined sewer.

Groundwater encountered within trenches may be managed within the trench and allowed to infiltrate back into the ground. If the groundwater cannot be managed within the trench, it may be discharged to a sanitary sewer or combined sewer when permitted by the local sewer authority, or it shall be containerized and trucked to an off-site treatment facility as a special waste or hazardous waste. The Contractor is prohibited from discharging groundwater within the trench through a storm sewer. The Contractor shall install backfill plugs within the area of groundwater contamination.

One backfill plug shall be placed down gradient to the area of groundwater contamination. Backfill plugs shall be installed at intervals not to exceed 50 ft (15 m). Backfill plugs are to be 4 ft (1.2 m) long, measured parallel to the trench, full trench width and depth. Backfill plugs shall not have any fine aggregate bedding or backfill, but shall be entirely cohesive soil or any class of concrete. The Contractor shall provide test data that the material has a permeability of less than 10^{-7} cm/sec according to ASTM D 5084, Method A or per another test method approved by the Engineer.

The Contractor shall use due care when transferring contaminated material from the area of origin to the transporter. Should releases of contaminated material to the environment occur (i.e., spillage onto the ground, etc.), the Contractor shall clean-up spilled material and place in the appropriate storage containers as previously specified. Clean-up shall include, but not be limited to, sampling beneath the material staging area to determine complete removal of the spilled material.

The Contractor shall provide engineered barriers, when required, and shall include materials sufficient to completely line excavation surfaces, including sloped surfaces, bottoms, and sidewall faces, within the areas designated for protection.

The Contractor shall obtain all documentation including any permits and/or licenses required to transport the material containing regulated substances to the disposal facility. The Contractor shall coordinate with the Engineer on the completion of all documentation. The Contractor shall make all arrangements for collection and analysis of landfill acceptance testing. The Contractor shall coordinate waste disposal approvals with the disposal facility.

The Contractor shall provide the Engineer with all transport-related documentation within two days of transport or receipt of said document(s). For management of special or hazardous waste, the Contractor shall provide the Engineer with documentation that the Contractor is operating with

a valid Illinois special waste transporter permit at least two weeks before transporting the first load of contaminated material.

Transportation and disposal of material classified according to Article 669.05(a)(5) or 669.05(a)(6) shall be completed each day so that none of the material remains on-site by the close of business, except when temporary staging has been approved.

Any waste generated as a special or hazardous waste from a non-fixed facility shall be manifested off-site using the Department's county generator number provided by the Bureau of Design and Environment. An authorized representative of the Department shall sign all manifests for the disposal of the contaminated material and confirm the Contractor's transported volume. Any waste generated as a non-special waste may be managed off-site without a manifest, a special waste transporter, or a generator number.

The Contractor shall select a landfill permitted for disposal of the contaminant within the State of Illinois. The Department will review and approve or reject the facility proposed by the Contractor to use as a landfill. The Contractor shall verify whether the selected disposal facility is compliant with those applicable standards as mandated by their permit and whether the disposal facility is presently, has previously been, or has never been, on the United States Environmental Protection Agency (U.S. EPA) National Priorities List or the Resource Conservation and Recovery Act (RCRA) List of Violating Facilities. The use of a Contractor selected landfill shall in no manner delay the construction schedule or alter the Contractor's responsibilities as set forth.

669.06 Non-Special Waste Certification. An authorized representative of the Department shall sign and date all non-special waste certifications. The Contractor shall be responsible for providing the Engineer with the required information that will allow the Engineer to certify the waste is not a special waste.

(a) Definition. A waste is considered a non-special waste as long as it is not:

- (1) a potentially infectious medical waste;
- (2) a hazardous waste as defined in 35 Ill. Admin. Code 721;
- (3) an industrial process waste or pollution control waste that contains liquids, as determined using the paint filter test set forth in subdivision (3)(A) of subsection (m) of 35 Ill. Admin. Code 811.107;
- (4) a regulated asbestos-containing waste material, as defined under the National Emission Standards for Hazardous Air Pollutants in 40 CFR Part 61.141;
- (5) a material containing polychlorinated biphenyls (PCB's) regulated pursuant to 40 CFR Part 761;
- (6) a material subject to the waste analysis and recordkeeping requirements of 35 Ill. Admin. Code 728.107 under land disposal restrictions of 35 Ill. Admin. Code 728;
- (7) a waste material generated by processing recyclable metals by shredding and required to be managed as a special waste under Section 22.29 of the Environmental Protection Act; or

- (8) an empty portable device or container in which a special or hazardous waste has been stored, transported, treated, disposed of, or otherwise handled.
- (b) Certification Information. All information used to determine the waste is not a special waste shall be attached to the certification. The information shall include but not be limited to:
 - (1) the means by which the generator has determined the waste is not a hazardous waste;
 - (2) the means by which the generator has determined the waste is not a liquid;
 - (3) if the waste undergoes testing, the analytic results obtained from testing, signed and dated by the person responsible for completing the analysis;
 - (4) if the waste does not undergo testing, an explanation as to why no testing is needed;
 - (5) a description of the process generating the waste; and
 - (6) relevant material safety data sheets.

669.07 Temporary Staging. Soil classified according to Articles 669.05(a)(2), (b)(1), or (c) may be temporarily staged at the Contractor's option. Soil classified according to Articles 669.05(a)(1), (a)(3), (a)(4), (a)(5), (a)(6), or (b)(2) shall be managed and disposed of without temporary staging to the greatest extent practicable. If circumstances beyond the Contractor's control require temporary staging of these latter materials, the Contractor shall request approval from the Engineer in writing.

Temporary staging shall be accomplished within the right-of-way and the Contractor's means and methods shall be described in the approved or amended RSPCP. Staging areas shall not be located within 200 feet (61 m) of a public or private water supply well; nor within 100 feet (30 m) of sensitive environmental receptor areas, including wetlands, rivers, streams, lakes, or designated habitat zones.

The method of staging shall consist of containerization or stockpiling as applicable for the type, classification, and physical state (i.e., liquid, solid, semisolid) of the material. Materials of different classifications shall be staged separately with no mixing or co-mingling.

When containers are used, the containers and their contents shall remain intact and inaccessible to unauthorized persons until the manner of disposal is determined. The Contractor shall be responsible for all activities associated with the storage containers including, but not limited to, the procurement, transport, and labeling of the containers. The Contractor shall not use a storage container if visual inspection of the container reveals the presence of free liquids or other substances that could cause the waste to be reclassified as a hazardous or special waste.

When stockpiles are used, they shall be covered with a minimum 20-mil plastic sheeting or tarps secured using weights or tie-downs. Perimeter berms or diversionary trenches shall be provided to contain and collect for disposal any water that drains from the soil. Stockpiles shall be managed to prevent or reduce potential dust generation.

When staging non-special waste, special waste, or hazardous waste, the following additional requirements shall apply:

- (a) Non-Special Waste. When stockpiling soil classified according to Article 669.05(a)(1) or 669.05(a)(5), an impermeable surface barrier between the materials and the ground surface shall be installed. The impermeable barrier shall consist of a minimum 20-mil plastic liner material and the surface of the stockpile area shall be clean and free of debris prior to placement of the liner. Measures shall also be taken to limit or discourage access to the staging area.
- (b) Special Waste and Hazardous Waste. Soil classified according to Article 669.05(a)(6) shall not be stockpiled but shall be containerized immediately upon generation in containers, tanks or containment buildings as defined by RCRA, Toxic Substances Control Act (TSCA), and other applicable State or local regulations and requirements, including 35 Ill. Admin. Code Part 722, Standards Applicable to Generators of Hazardous Waste.

The staging area(s) shall be enclosed (by a fence or other structure) to restrict direct access to the area, and all required regulatory identification signs applicable to a staging area containing special waste or hazardous waste shall be deployed.

Storage containers shall be placed on an all-weather gravel-packed, asphalt, or concrete surface. Containers shall be in good condition and free of leaks, large dents, or severe rusting, which may compromise containment integrity. Containers must be constructed of, or lined with, materials that will not react or be otherwise incompatible with the hazardous or special waste contents. Containers used to store liquids shall not be filled more than 80 percent of the rated capacity. Incompatible wastes shall not be placed in the same container or comingled.

All containers shall be legibly labeled and marked using pre-printed labels and permanent marker in accordance with applicable regulations, clearly showing the date of waste generation, location and/or area of waste generation, and type of waste. The Contractor shall place these identifying markings on an exterior side surface of the container.

Storage containers shall be kept closed, and storage pads covered, except when access is needed by authorized personnel.

Special waste and hazardous waste shall be transported and disposed within 90 days from the date of generation.

669.08 Underground Storage Tank Removal. For the purposes of this section, an underground storage tank (UST) includes the underground storage tank, piping, electrical controls, pump island, vent pipes and appurtenances.

Prior to removing an UST, the Engineer shall determine whether the Department is considered an "owner" or "operator" of the UST as defined by the UST regulations (41 Ill. Adm. Code Part 176). Ownership of the UST refers to the Department's owning title to the UST during storage, use or dispensing of regulated substances. The Department may be considered an "operator" of the UST if it has control of, or has responsibility for, the daily operation of the UST. The Department may however voluntarily undertake actions to remove an UST from the ground without being deemed an "operator" of the UST.

In the event the Department is deemed not to be the "owner" or "operator" of the UST, the OSFM removal permit shall reflect who was the past "owner" or "operator" of the UST. If the "owner" or "operator" cannot be determined from past UST registration documents from OSFM, then the OSFM removal permit will state the "owner" or "operator" of the UST is the Department.

The Department's Office of Chief Counsel (OCC) will review all UST removal permits prior to submitting any removal permit to the OSFM. If the Department is not the "owner" or "operator" of the UST then it will not register the UST or pay any registration fee.

The Contractor shall be responsible for obtaining permits required for removing the UST, notification to the OSFM, using an OSFM certified tank contractor, removal and disposal of the UST and its contents, and preparation and submittal of the OSFM Site Assessment Report in accordance with 41 Ill. Admin. Code Part 176.330.

The Contractor shall contact the Engineer and the OSFM's office at least 72 hours prior to removal to confirm the OSFM inspector's presence during the UST removal. Removal, transport, and disposal of the UST shall be according to the applicable portions of the latest revision of the "American Petroleum Institute (API) Recommended Practice 1604".

The Contractor shall collect and analyze tank content (sludge) for disposal purposes. The Contractor shall remove as much of the regulated substance from the UST system as necessary to prevent further release into the environment. All contents within the tank shall be removed, transported and disposed of, or recycled. The tank shall be removed and rendered empty according to IEPA definition.

The Contractor shall collect soil samples from the bottom and sidewalls of the excavated area in accordance with 35 Ill. Admin. Code Part 734.210(h) after the required backfill has been removed during the initial response action, to determine the level of contamination remaining in the ground, regardless if a release is confirmed or not by the OSFM on-site inspector.

In the event the UST is designated a leaking underground storage tank (LUST) by the OSFM's inspector, or confirmation by analytical results, the Contractor shall notify the Engineer and the District Environmental Studies Unit (DESU). Upon confirmation of a release of contaminants and notifications to the Engineer and DESU, the Contractor shall report the release to the Illinois Emergency Management Agency (IEMA) (e.g., by telephone or electronic mail) and provide them with whatever information is available ("owner" or "operator" shall be stated as the past registered "owner" or "operator", or the IDOT District in which the tank is located and the DESU Manager).

The Contractor shall perform the following initial response actions if a release is indicated by the OSFM inspector:

- (a) Take immediate action to prevent any further release of the regulated substance to the environment, which may include removing, at the Engineer's discretion, and disposing of up to 4 ft (1.2 m) of the contaminated material, as measured from the outside dimension of the tank;
- (b) Identify and mitigate fire, explosion and vapor hazards;
- (c) Visually inspect any above ground releases or exposed below ground releases and prevent further migration of the released substance into surrounding soils and groundwater; and
- (d) Continue to monitor and mitigate any additional fire and safety hazards posed by vapors and free product that have migrated from the tank excavation zone and entered into subsurface structures (such as sewers or basements).

The tank excavation shall be backfilled according to applicable portions of Sections 205, 208, and 550 with a material that will compact and develop stability. All uncontaminated concrete and soil removed during tank extraction may be used to backfill the excavation, at the discretion of the Engineer.

After backfilling the excavation, the site shall be graded and cleaned.

669.09 Regulated Substances Final Construction Report. Not later than 90 days after completing this work, the Contractor shall submit a "Regulated Substances Final Construction Report (RSFCR)" to the Engineer using form BDE 2733 and required attachments. The form shall be signed by an Illinois licensed Professional Engineer or Professional Geologist.

669.10 Method of Measurement. Non-special waste, special waste, and hazardous waste soil will be measured for payment according to Article 202.07(b) when performing earth excavation, Article 502.12(b) when excavating for structures, or by computing the volume of the trench using the maximum trench width permitted and the actual depth of the trench.

Groundwater containerized and transported off-site for management, storage, and disposal will be measured for payment in gallons (liters).

Backfill plugs will be measured in cubic yards (cubic meters) in place, except the quantity for which payment will be made shall not exceed the volume of the trench, as computed by using the maximum width of trench permitted by the Specifications and the actual depth of the trench, with a deduction for the volume of the pipe.

Engineered Barriers will be measured for payment in square yards (square meters).

669.11 Basis of Payment. The work of preparing, submitting and administering a Regulated Substances Pre-Construction Plan will be paid for at the contract lump sum price for REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN.

Regulated substances monitoring, including completion of form BDE 2732 for each day of work, will be paid for at the contract unit price per calendar day, or fraction thereof to the nearest 0.5 calendar day, for REGULATED SUBSTANCES MONITORING.

The installation of engineered barriers will be paid for at the contract unit price per square yard (square meter) for ENGINEERED BARRIER.

The work of UST removal, soil excavation, soil and content sampling, the management of excavated soil and UST content, and UST disposal, will be paid for at the contract unit price per each for UNDERGROUND STORAGE TANK REMOVAL.

The transportation and disposal of soil and other materials from an excavation determined to be contaminated will be paid for at the contract unit price per cubic yard (cubic meter) for NON-SPECIAL WASTE DISPOSAL, SPECIAL WASTE DISPOSAL, or HAZARDOUS WASTE DISPOSAL.

The transportation and disposal of groundwater from an excavation determined to be contaminated will be paid for at the contract unit price per gallon (liter) for SPECIAL WASTE GROUNDWATER DISPOSAL or HAZARDOUS WASTE GROUNDWATER DISPOSAL. When groundwater is discharged to a sanitary or combined sewer by permit, the cost will be paid for according to Article 109.05.

Backfill plugs will be paid for at the contract unit price per cubic yard (cubic meter) for BACKFILL PLUGS.

Payment for temporary staging of soil classified according to Articles 669.05(a)(1), (a)(3), (a)(4), (a)(5), (a)(6), or (b)(2) will be paid for according to Article 109.04. The Department will not be responsible for any additional costs incurred, if mismanagement of the staging area, storage containers, or their contents by the Contractor results in excess cost expenditure for disposal or other material management requirements.

Payment for accumulated stormwater removal and disposal will be according to Article 109.04. Payment will only be allowed if appropriate stormwater and erosion control methods were used.

Payment for decontamination, labor, material, and equipment for monitoring areas beyond the specified areas, with the Engineer's prior written approval, will be according to Article 109.04.

When the waste material for disposal requires sampling for landfill disposal acceptance, the samples shall be analyzed for TCLP VOCs, SVOCs, RCRA metals, pH, ignitability, and paint filter test. The analysis will be paid for at the contract unit price per each for SOIL DISPOSAL ANALYSIS using EPA Methods 1311 (extraction), 8260B for VOCs, 8270C for SVOCs, 6010B and 7470A for RCRA metals, 9045C for pH, 1030 for ignitability, and 9095A for paint filter.

The work of preparing, submitting and administering a Regulated Substances Final Construction Report will be paid for at the contract lump sum price REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT.”

SPEED DISPLAY TRAILER (BDE)

Effective: April 2, 2014

Revised: January 1, 2017

Revise the third paragraph of Article 701.11 of the Standard Specifications to read:

“When not being utilized to inform and direct traffic, sign trailers, speed display trailers, arrow boards, and portable changeable message boards shall be treated as nonoperating equipment.”

Add the following to Article 701.15 of the Standard Specifications:

“(m) Speed Display Trailer. A speed display trailer is used to enhance safety of the traveling public and workers in work zones by alerting drivers of their speed, thus deterring them from driving above the posted work zone speed limit.”

Add the following to Article 701.20 of the Standard Specifications:

“(k) When speed display trailers are shown on the Standard, this work will not be paid for separately but shall be considered as included in the cost of the Standard.

For all other speed display trailers, this work will be paid for at the contract unit price per calendar month or fraction thereof for each trailer as SPEED DISPLAY TRAILER.”

Add the following to Article 1106.02 of the Standard Specifications:

- “(o) Speed Display Trailer. The speed display trailer shall consist of a LED speed indicator display with self-contained, one-direction radar mounted on an orange see-through trailer. The height of the display and radar shall be such that it will function and be visible when located behind concrete barrier.

The speed measurement shall be by radar and provide a minimum detection distance of 1000 ft (300 m). The radar shall have an accuracy of ± 1 mile per hour.

The speed indicator display shall face approaching traffic and shall have a sign legend of “YOUR SPEED” immediately above or below the speed display. The sign letters shall be between 5 and 8 in. (125 and 200 mm) in height. The digital speed display shall show two digits (00 to 99) in mph. The color of the changeable message legend shall be a yellow legend on a black background. The minimum height of the numerals shall be 18 in. (450 mm), and the nominal legibility distance shall be at least 750 ft (250 m).

The speed indicator display shall be equipped with a violation alert that flashes the displayed detected speed when the work zone posted speed limit is exceeded. The speed indicator shall have a maximum speed cutoff. On roadway facilities with a normal posted speed limit greater than or equal to 45 mph, the detected speeds of vehicles traveling more than 25 mph over the work zone speed limit shall not be displayed. On facilities with normal posted speed limit of less than 45 mph, the detected speeds of vehicles traveling more than 15 mph over the work zone speeds limit shall not be displayed. On any roadway facility if detected speeds are less than 25 mph, they shall not be displayed. The display shall include automatic dimming for nighttime operation.

The speed indicator measurement and display functions shall be equipped with the power supply capable of providing 24 hours of uninterrupted service.”

SUBCONTRACTOR AND DBE PAYMENT REPORTING (BDE)

Effective: April 2, 2018

Add the following to Section 109 of the Standard Specifications.

“109.14 Subcontractor and Disadvantaged Business Enterprise Payment Reporting. The Contractor shall report all payments made to the following parties:

- (a) first tier subcontractors;
- (b) lower tier subcontractors affecting disadvantaged business enterprise (DBE) goal credit;
- (c) material suppliers or trucking firms that are part of the Contractor’s submitted DBE utilization plan.

The report shall be made through the Department’s on-line subcontractor payment reporting system within 21 days of making the payment.”

SUBCONTRACTOR MOBILIZATION PAYMENTS (BDE)

Effective: November 2, 2017

Revised: April 1, 2019

Replace the second paragraph of Article 109.12 of the Standard Specifications with the following:

“This mobilization payment shall be made at least seven days prior to the subcontractor starting work. The amount paid shall be at the following percentage of the amount of the subcontract reported on form BC 260A submitted for the approval of the subcontractor’s work.

Value of Subcontract Reported on Form BC 260A	Mobilization Percentage
Less than \$10,000	25%
\$10,000 to less than \$20,000	20%
\$20,000 to less than \$40,000	18%
\$40,000 to less than \$60,000	16%
\$60,000 to less than \$80,000	14%
\$80,000 to less than \$100,000	12%
\$100,000 to less than \$250,000	10%
\$250,000 to less than \$500,000	9%
\$500,000 to \$750,000	8%
Over \$750,000	7%”

SUBMISSION OF PAYROLL RECORDS (BDE)

Effective: April 1, 2021

Revise Item 3 of Section IV of Check Sheet #5 of the Recurring Special Provisions to read:

- “3. Submission of Payroll Records. The Contractor and each subcontractor shall, no later than the 15th day of each calendar month, file a certified payroll for the immediately preceding month to the Illinois Department of Labor (IDOL) through the Illinois Prevailing Wage Portal in compliance with the State Prevailing Wage Act (820 ILCS 130). The portal can be found on the IDOL website at <https://www2.illinois.gov/idol/Laws-Rules/CONMED/Pages/Prevailing-Wage-Portal.aspx>. Payrolls shall be submitted in the format prescribed by the IDOL.”

TRAFFIC CONTROL DEVICES - CONES (BDE)

Effective: January 1, 2019

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

“(a) Cones. Cones are used to channelize traffic. Cones used to channelize traffic at night shall be reflectorized; however, cones shall not be used in nighttime lane closure tapers or nighttime lane shifts.”

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

“(b) Cones. Cones shall be predominantly orange. Cones used at night that are 28 to 36 in. (700 to 900 mm) in height shall have two white circumferential stripes. If non-reflective spaces are left between the stripes, the spaces shall be no more than 2 in. (50mm) in width. Cones used at night that are taller than 36 in. (900 mm) shall have a minimum of two white and two fluorescent orange alternating, circumferential stripes with the top stripe being fluorescent orange. If non-reflective spaces are left between the stripes, the spaces shall be no more than 3 in. (75 mm) in width.

The minimum weights for the various cone heights shall be 4 lb for 18 in. (2 kg for 450 mm), 7 lb for 28 in. (3 kg for 700 mm), and 10 lb for 36 in. (5 kg for 900 mm) with a minimum of 60 percent of the total weight in the base. Cones taller than 36 in. shall be weighted per the manufacturer’s specifications such that they are not moved by wind or passing traffic.”

TRAFFIC SPOTTERS (BDE)

Effective: January 1, 2019

Revise Article 701.13 of the Standard Specifications to read:

“**701.13 Flaggers and Spotters.** Flaggers shall be certified by an agency approved by the Department. While on the job site, each flagger shall have in his/her possession a current driver’s license and a current flagger certification I.D. card. For non-drivers, the Illinois Identification Card issued by the Secretary of State will meet the requirement for a current driver’s license. This certification requirement may be waived by the Engineer for emergency situations that arise due to actions beyond the Contractor’s control where flagging is needed to maintain safe traffic control on a temporary basis. Spotters are defined as certified flaggers that provide support to workers by monitoring traffic.

Flaggers and spotters shall be stationed to the satisfaction of the Engineer and be equipped with a fluorescent orange, fluorescent yellow/green, or a combination of fluorescent orange and fluorescent yellow/green vest meeting the requirements of ANSI/ISEA 107-2004 or ANSI/ISEA 107-2010 for Conspicuity Class 2 garments. Flaggers shall be equipped with a stop/slow traffic control sign. Spotters shall be equipped with a loud warning device. The warning sound shall be identifiable by workers so they can take evasive action when necessary. Other types of garments may be substituted for the vest as long as the garments have a manufacturer’s tag identifying them as meeting the ANSI Class 2 requirement. The longitudinal placement of the flagger may be increased up to 100 ft (30 m) from that shown on the plans to improve the visibility of the flagger. Flaggers shall not encroach on the open lane of traffic unless traffic has been stopped. Spotters shall not encroach on the open lane of traffic, nor interact with or control the flow of traffic.

For nighttime flagging, flaggers shall be illuminated by an overhead light source providing a minimum vertical illuminance of 10 fc (108 lux) measured 1 ft (300 mm) out from the flagger's chest. The bottom of any luminaire shall be a minimum of 10 ft (3 m) above the pavement. Luminaire(s) shall be shielded to minimize glare to approaching traffic and trespass light to adjoining properties. Nighttime flaggers shall be equipped with fluorescent orange or fluorescent orange and fluorescent yellow/green apparel meeting the requirements of ANSI/ISEA 107-2004 or ANSI/ISEA 107-2010 for Conspicuity Class 3 garments.

Flaggers and spotters shall be provided per the traffic control plan and as follows.

- (a) Two-Lane Highways. Two flaggers will be required for each separate operation where two-way traffic is maintained over one lane of pavement. Work operations controlled by flaggers shall be no more than 1 mile (1600 m) in length. Flaggers shall be in sight of each other or in direct communication at all times. Direct communication shall be obtained by using portable two-way radios or walkie-talkies.

The Engineer will determine when a side road or entrance shall be closed to traffic. A flagger will be required at each side road or entrance remaining open to traffic within the operation where two-way traffic is maintained on one lane of pavement. The flagger shall be positioned as shown on the plans or as directed by the Engineer.

- (b) Multi-Lane Highways. At all times where traffic is restricted to less than the normal number of lanes on a multilane pavement with a posted speed limit greater than 40 mph and the workers are present, but not separated from the traffic by physical barriers, a flagger or spotter shall be furnished as shown on the plans. Flaggers shall warn and direct traffic. Spotters shall monitor traffic conditions and warn workers of errant approaching vehicles or other hazardous conditions as they occur. One flagger will be required for each separate activity of an operation that requires frequent encroachment in a lane open to traffic. One spotter will be required for each separate activity with workers near the edge of the open lane or with their backs facing traffic.

Flaggers will not be required when no work is being performed, unless there is a lane closure on two-lane, two-way pavement.”

WEEKLY DBE TRUCKING REPORTS (BDE)

Effective: June 2, 2012

Revised: April 2, 2015

The Contractor shall submit a weekly report of Disadvantaged Business Enterprise (DBE) trucks hired by the Contractor or subcontractors (i.e. not owned by the Contractor or subcontractors) that are used for DBE goal credit.

The report shall be submitted to the Engineer on Department form “SBE 723” within ten business days following the reporting period. The reporting period shall be Monday through Sunday for each week reportable trucking activities occur.

Any costs associated with providing weekly DBE trucking reports shall be considered as included in the contract unit prices bid for the various items of work involved and no additional compensation will be allowed.

WORK ZONE TRAFFIC CONTROL DEVICES (BDE)

Effective: March 2, 2020

Add the following to Article 701.03 of the Standard Specifications:

“(q) Temporary Sign Supports 1106.02”

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

“For temporary sign supports, the Contractor shall provide a FHWA eligibility letter for each device used on the contract. The letter shall provide information for the set-up and use of the device as well as a detailed drawing of the device. The signs shall be supported within 20 degrees of vertical. Weights used to stabilize signs shall be attached to the sign support per the manufacturer’s specifications.”

Revise the first paragraph of Article 701.15 of the Standard Specifications to read:

“701.15 Traffic Control Devices. For devices that must meet crashworthiness standards, the Contractor shall provide a manufacturer’s self-certification or a FHWA eligibility letter for each Category 1 device and a FHWA eligibility letter for each Category 2 and Category 3 device used on the contract. The self-certification or letter shall provide information for the set-up and use of the device as well as a detailed drawing of the device.”

Revise the first six paragraphs of Article 1106.02 of the Standard Specifications to read:

“1106.02 Devices. Work zone traffic control devices and combinations of devices shall meet crashworthiness standards for their respective categories. The categories are as follows.

Category 1 includes small, lightweight, channelizing and delineating devices that have been in common use for many years and are known to be crashworthy by crash testing of similar devices or years of demonstrable safe performance. These include cones, tubular markers, plastic drums, and delineators, with no attachments (e.g. lights). Category 1 devices manufactured after December 31, 2019 shall be MASH-16 compliant. Category 1 devices manufactured on or before December 31, 2019, and compliant with NCHRP 350 or MASH 2009, may be used on contracts let before December 31, 2024.

Category 2 includes devices that are not expected to produce significant vehicular velocity change but may otherwise be hazardous. These include vertical panels with lights, barricades, temporary sign supports, and Category 1 devices with attachments (e.g. drums with lights). Category 2 devices manufactured after December 31, 2019 shall be MASH-16 compliant. Category 2 devices manufactured on or before December 31, 2019, and compliant with NCHRP 350 or MASH 2009, may be used on contracts let before December 31, 2024.

Category 3 includes devices that are expected to cause significant velocity changes or other potentially harmful reactions to impacting vehicles. These include crash cushions (impact attenuators), truck mounted attenuators, and other devices not meeting the definitions of Category 1 or 2. Category 3 devices manufactured after December 31, 2019 shall be MASH-16 compliant. Category 3 devices manufactured on or before December 31, 2019, and compliant

with NCHRP 350 or MASH 2009, may be used on contracts let before December 31, 2029. Category 3 devices shall be crash tested for Test Level 3 or the test level specified.

Category 4 includes portable or trailer-mounted devices such as arrow boards, changeable message signs, temporary traffic signals, and area lighting supports. It is preferable for Category 4 devices manufactured after December 31, 2019 to be MASH-16 compliant; however, there are currently no crash tested devices in this category, so it remains exempt from the NCHRP 350 or MASH compliance requirement.

For each type of device, when no more than one MASH-16 compliant is available, an NCHRP 350 or MASH-2009 compliant device may be used, even if manufactured after December 31, 2019.”

Revise Articles 1106.02(g), 1106.02(k), and 1106.02(l) to read:

“(g) Truck Mounted/Trailer Mounted Attenuators. The attenuator shall be approved for use at Test Level 3. Test Level 2 may be used for normal posted speeds less than or equal to 45 mph.

(k) Temporary Water Filled Barrier. The water filled barrier shall be a lightweight plastic shell designed to accept water ballast and be on the Department’s qualified product list.

Shop drawings shall be furnished by the manufacturer and shall indicate the deflection of the barrier as determined by acceptance testing; the configuration of the barrier in that test; and the vehicle weight, velocity, and angle of impact of the deflection test. The Engineer shall be provided one copy of the shop drawings.

(l) Movable Traffic Barrier. The movable traffic barrier shall be on the Department’s qualified product list.

Shop drawings shall be furnished by the manufacturer and shall indicate the deflection of the barrier as determined by acceptance testing; the configuration of the barrier in that test; and the vehicle weight, velocity, and angle of impact of the deflection test. The Engineer shall be provided one copy of the shop drawings. The barrier shall be capable of being moved on and off the roadway on a daily basis.”

ILLINOIS WORKS APPRENTICESHIP INITIATIVE – STATE FUNDED CONTRACTS (BDE)

Effective: June 2, 2021

Illinois Works Jobs Program Act (30 ILCS 559/20-1 et seq.). For contracts having an estimated total project cost of \$500,000 or more, the Contractor shall comply with the Illinois Works Apprenticeship Initiative (30 ILCS 559/20-20 to 20-25) and all applicable administrative rules. The “estimated total project cost” is a good faith approximation of the costs of the entire contract. The goal of the Illinois Apprenticeship Works Initiative is that apprentices will perform either 10% of the total labor hours actually worked in each prevailing wage classification or 10% of the estimated labor hours in each prevailing wage classification, whichever is less. The Contractor may seek from the Department of Commerce and Economic Opportunity (DCEO) a waiver or reduction of this goal in certain circumstances pursuant to 30 ILCS 559/20-20(b). The Contractor shall ensure compliance during the term of the contract and will be required to report on and certify its compliance. Apprentice hours shall be submitted to the Engineer weekly using form SBE 1014, “Weekly Trainee Report”, or other forms as required by the Department. A certification statement shall be submitted to the Engineer upon contract completion on forms provided by the DCEO, or other forms as required by the Department. The Department will submit the certification to DCEO for approval.

REVISIONS TO THE ILLINOIS PREVAILING WAGE RATES

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

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