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June 12, 2026 Letting

Notice to Bidders, Specifications and Proposal

Illinois Department of Transportation

Contract No. 76U96
Various Counties
Section DIST 8 LTS 2027-1
Various Routes
District 8 Construction Funds

Prepared by

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Checked by

(Printed by authority of the State of Illinois)

Illinois Department of Transportation

NOTICE TO BIDDERS

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 12, 2026 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. 76U96
   Various Counties
   Section DIST 8 LTS 2027-1
   Various Routes
   District 8 Construction Funds

   Highway lighting and traffic signal 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

Gia Biagi,
Secretary

INDEX
FOR
SUPPLEMENTAL SPECIFICATIONS
AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2026

This index contains a listing of SUPPLEMENTAL SPECIFICATIONS, frequently used RECURRING SPECIAL PROVISIONS, and LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS.

ERRATA Standard Specifications for Road and Bridge Construction
(Adopted 1-1-22) (Revised 1-1-26)

SUPPLEMENTAL SPECIFICATIONS

RECURRING SPECIAL PROVISIONS

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

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STATE OF ILLINOIS

SPECIAL PROVISIONS

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction," adopted January 1, 2022, 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 LTS 2027-1, Various Counties, Contract No.76U96, 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 LTS 2027-1
Various Counties
Contract No.76U96

LOCATION OF PROJECT

This project is located at various locations in District 8.

DESCRIPTION OF PROJECT

This project will provide operable and properly maintained highway lighting and traffic signal repair and maintenance in 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 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 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 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, 2026, (whichever is latest) and terminate September 30, 2027. 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 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:** _____

☐ Traffic Signal ☐ Highway Lighting ☐ Flashing Beacon ☐ Misc. _____
☐ Service Call ☐ Knock Down ☐ Other Work
COD #:

Location: _____

Problem:

Ref/Accident #: _____ **Claim #:** _____

Remarks:

Completed By: _____ **Date/TimeCompleted:** _____

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:

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 and knocked down, damaged flashing beacon installations or as designated by the Department.

Non-Emergency Traffic Signal/Flashing Beacon Calls - respond within 24 hours of issuance.

Highway Lighting Outages - respond within five 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.

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 ITS 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 ITS 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 and 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 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 PLAN

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

Traffic control shall be in accordance with the applicable sections of the "Standard Specifications for Road and Bridge Construction", the applicable guidelines contained in the "National Manual on Uniform Traffic Control Devices for Streets and Highways", Illinois Supplement to the National Manual of Uniform Traffic Control Devices, these special provisions, and any special details and highway standards contained herein and in the plans.

Special attention is called to Articles 107.09 and 107.14 of the "Standard Specifications for Road and Bridge Construction" and the following highway standards relating to traffic control:

701001	701006	701101	701106	701201	701206
701301	701400	701401	701406	701421	701422
701446	701451	701456	701601	701606	701701
701901					

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

Traffic Control and Protection (Special)
Speed Display Trailer
Work Zone Traffic Control Devices
Vehicle and Equipment Warning Lights

TRAFFIC CONTROL AND PROTECTION (SPECIAL)

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 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, 701301, 701401, 701406, 701421, 701422, 701446, 701451, 701456, 701601, 701606, 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 Standards 701201, 701206, 701301, 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
701301	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 ⇔

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

LOCATION:	From or @		To:	

LANES: <<Left ln. to Right ln>>	SHOULDERS	RAMPS
☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5/6	☐ Left ☐ Right	☐ Full ☐ Exit
☐ MOVING ☐ STATIONARY		☐ Partial (1/2) ☐ Entrance

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

LANE CLOSURE REQUEST.docx 10/29/2013

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 included in 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 incidental part, the Contractor shall immediately contact the Department. If this part or material is deemed necessary, the Contractor shall receive the actual cost for parts and materials supplied (including transportation charges paid by the Contractor) in accordance with Article 109.04 of the Standard Specifications. The cost of all parts and materials shall be itemized on the invoice of each work order.

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 included in 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. 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.

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 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 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 to Article 817.04.

Basis 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.

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 included in the contract, payment shall be made in accordance with Article 109.04(b)(4) of the Standard Specifications.

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; 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, overheard, 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 ITS 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, overheard, 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, overheard, 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; 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; and 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 cost 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. 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. Installation requirements shall be as described in Article 886.04 of the Standard Specifications. 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 ina all signal sections and lighted signs according to the following schedule:

- 8” traffic signal / 9” pedestrian signal – 69 watt, long life lamp as approved be 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 replaces. 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, signal bracket and mast arm mounting bracket hardware. If the part or material is not considered included in 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 included part, or which involves work beyond the scope of this pay item, the Contractor shall immediately contact the Department.

This work will 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 be 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, signal bracket and mast arm mounting bracket hardware. If the part or material is not considered included in 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 included 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 location 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 be 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 included in 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 included part, or which involves work beyond the scope of this pay item, the Contractor shall immediately contact the Department.

This work will 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. 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 shall consist 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 except 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 ensure 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 shall consist 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 except 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 shall consist 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 except 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 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 HIGHWAY 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 except 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.

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 except 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.

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 except 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.

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

PEDESTRIAN PUSH-BUTTON POST

Description. This work shall consist of furnishing and installing a metal pedestrian push-button post. All installations shall meet the requirements of the details shown on the plans.

Materials. The pedestrian signal post shall be designed to support the traffic signal loading shown on the plans. The design and fabrication shall be according to the Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, as published by AASHTO.

Post. The post shall be made of steel or aluminum and have an outside diameter of 4 1/2 in. The post shall be threaded for assembly to the base. Aluminum posts shall be according to the specifications for Schedule 80 aluminum pipe. Steel posts shall be according to the specifications for Schedule 40 steel pipe. The post shall have a safety tether connected to the anchor rod.

Base. The base of a steel post shall be cast iron. The base of an aluminum post shall be aluminum. The base shall be threaded for the attachment to the threaded post. The base shall be approximately 10 in. high and 6 3/4 in. square at the bottom. The bottom of the base shall be designed to accept four 5/8 in. diameter anchor rods evenly spaced in a 6 in. diameter circle. The base shall be true to pattern, with sharp clean cutting ornamentation, and equipped with access doors for cable handling. The door shall be fastened to the base with stainless steel screws. A grounding lug shall be provided inside the base.

Anchor Rods. The anchor rods shall be 5/8 in. in diameter and 16 in. long and shall be according to Article 1006.09. The anchor rods shall be installed in the pour of the concrete foundation. The anchor rods shall be threaded at least 6 in. at one end. One each galvanized nut and washer shall be furnished with each anchor rod. The washer shall be properly sized to fully engage and sit flush on all sides of the slot of the base plate.

The aluminum post and base shall be drilled at the third points around the diameter and 1/4 in. by 2 in. stainless steel bolts shall be inserted to prevent the post from turning and wobbling.

Finish. The steel post, steel post cap and the cast iron base shall be hot-dipped galvanized according to AASHTO M 111. If the post and the base are threaded after the galvanization, the bare exposed metal shall be immediately cleaned to remove all cutting solvents and oils, and then spray painted with two coats of an approved galvanized paint. The aluminum post, post cap and base shall be clear anodized.

Installation. The pedestrian signal post shall be erected plumb, securely bolted to a concrete foundation, and grounded to a ground rod according to the details shown on the plans. No more than 3/4 in. of the post threads shall protrude above the base.

A post cap shall be furnished and installed on the top of the post. The post cap shall match the material of the post. The Contractor shall apply an anti-seize paste compound on all nuts and bolts prior to assembly.

Prior to the assembly, the Contractor shall apply two additional coats of galvanized paint on the threads of the post and the base. The Contractor shall use a fabric post tightener to screw the post to the base.

Basis of Payment. This work will be paid for at the contract unit price per EACH for PEDESTRIAN PUSH-BUTTON POST.

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 the State's 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 Specifications.

When testing ITS 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 included in 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 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 weeks after completion of the work.

The Contractor shall submit two 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 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 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; will be merchantable, of good quality and workmanship, free from defects for a period of 12 months or longer if specified in writing, and fit and sufficient for the intended use; will comply with all federal and state laws, regulations and ordinances pertaining to the manufacturing, packing, labeling, sale and delivery of the supplies; will be of good title and be free and clear of all liens and encumbrances; and 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 III. 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 Selmaville) LED
FB7008	CA	US 50 & Selmaville Road EB (W. of Selmaville) 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
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 Port	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	Madison

Traffic Signals					
District	**Intersection #**	**LED**	**Intersection ID**	**Area**	**County**
				of)	
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

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 & Baldridge (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	01815	Y	IL 111 & I 270 (LED)(Video)(BB)	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.	Edwardsville and	Madison

Traffic Signals					
District	**Intersection #**	**LED**	**Intersection ID**	**Area**	**County**
			(LED)	Pontoon	
NA	01830	Y	IL 111 & New Poag Rd. (LED)	Pontoon Beach-(N 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 0f)	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 & Montclaire 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)	Fairveiw 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	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)IS	Madison
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.	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/Piggot 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 & Baldridge 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
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 and 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.

ACCESSIBLE PEDESTRIAN SIGNALS (APS) (BDE)

Effective: April 1, 2003 Revised: January 1, 2022

Description. This work shall consist of furnishing and installing accessible pedestrian signals (APS). Each APS shall consist of an interactive vibrotactile pedestrian pushbutton with speaker, an informational sign, a light emitting diode (LED) indicator light, a solid-state electronic control board, a power supply, wiring, and mounting hardware. The APS shall meet the requirements of the MUTCD and Sections 801 and 888 of the Standard Specifications, except as modified herein.

Electrical Requirements. The APS shall operate with systems providing 95 to 130 VAC, 60 Hz and throughout an ambient air temperature range of -29 to +160 °F (-34 to +70 °C).

The APS shall contain a power protection circuit consisting of both fuse and transient protection.

Audible Indications. A pushbutton locator tone shall sound at each pushbutton and shall be deactivated during the associated walk indication and when associated traffic signals are in flashing mode. Pushbutton locator tones shall have a duration of 0.15 seconds or less and shall repeat at 1-second intervals. Each actuation of the pushbutton shall be accompanied by the speech message "Wait".

If two accessible pedestrian pushbuttons are placed less than 10 ft (3 m) apart or placed on the same pole, the audible walk indication shall be a speech walk message. This message shall sound throughout the WALK interval only. The verbal message shall be modeled after: "'Street Name.' Walk Sign is on to cross "Street Name'." For signalized intersections utilizing exclusive pedestrian phasing, the verbal message shall be "Walk sign is on for all crossings". In addition, a speech pushbutton information message shall be provided by actuating the APS pushbutton when the WALK interval is not timing. This verbal message shall be modeled after: "Wait. Wait to cross 'Street Name' at 'Street Name'".

Where two accessible pedestrian pushbuttons are separated by at least 10 ft (3 m), the walk indication shall be an audible percussive tone. It shall repeat at 8 to 10 ticks per second with a dominant frequency of 880 Hz.

Automatic volume adjustments in response to ambient traffic sound level shall be provided up to a maximum volume of 100 dBA. Locator tone and verbal messages shall be no more than 5 dB louder than ambient sound.

At locations with railroad interconnection, an additional speech message stating "Walk time shortened when train approaches" shall be used after the speech walk message. At locations with emergency vehicle preemption, an additional speech message "Walk time shortened when emergency vehicle approaches" shall be used after the speech walk message.

Pedestrian Pushbutton. Pedestrian pushbuttons shall be at least 2 in. (50 mm) in diameter or width. The force required to activate the pushbutton shall be no greater than 3.5 lb (15.5 N).

A red LED shall be located on or near the pushbutton which, when activated, acknowledges the pedestrians request to cross the street.

Signage. A sign shall be located immediately above the pedestrian pushbutton and parallel to the crosswalk controlled by the pushbutton. The sign shall conform to one of the following standard MUTCD designs: R10-3, R10-3a, R10-3e, R10-3i, R10-4, and R10-4a.

Tactile Arrow. A tactile arrow, pointing in the direction of travel controlled by a pushbutton, shall be provided on the pushbutton.

Vibrotactile Feature. The pushbutton shall pulse when depressed and shall vibrate continuously throughout the WALK interval.

Method of Measurement. This work will be measured for payment as each, per pushbutton.

Basis of Payment. This work will be paid for at the contract unit price per each for ACCESSIBLE PEDESTRIAN SIGNALS.

CEMENT, FINELY DIVIDED MINERALS, ADMIXTURES, CONCRETE, AND MORTAR (BDE)

Effective: January 1, 2025 Revised: January 1, 2026

Revise the first paragraph of Article 285.05 of the Standard Specifications to read:

"**285.05 Fabric Formed Concrete Revetment Mat.** The grout shall consist of a mixture of cement, fine aggregate, and water so proportioned and mixed as to provide a pumpable slurry. Fly ash or ground granulated blast furnace (GGBF) slag, and concrete admixtures may be used at the option of the Contractor. The grout shall have an air content of not less than 6.0 percent nor more than 9.0 percent of the volume of the grout. The mix shall obtain a compressive strength of 2500 psi (17,000 kPa) at 28 days according to Article 1020.09."

Revise Article 302.02 of the Standard Specifications to read:

"**302.02 Materials.** Materials shall be according to the following.

	Item	Article/Section
(a)	Cement	1001
(b)	Water	1002
(c)	Hydrated Lime	1012.01
(d)	By-Product, Hydrated Lime	1012.02
(e)	By-Product, Non-Hydrated Lime	1012.03
(f)	Lime Slurry	1012.04
(g)	Fly Ash	1010
(h)	Soil for Soil Modification (Note 1)	1009.01
(i)	Bituminous Materials (Note 2)	1032

Note 1. This soil requirement only applies when modifying with lime (slurry or dry).

Note 2. The bituminous materials used for curing shall be emulsified asphalt RS-2, CRS-2, HFE 90, or HFE 150; rapid curing liquid asphalt RC-70; or medium curing liquid asphalt MC-70 or MC-250."

Revise Article 312.07(c) of the Standard Specifications to read:

"(c) Cement .....1001"

Add Article 312.07(i) of the Standard Specifications to read:

"(i) Ground Granulated Blast Furnace (GGBF) Slag .....1010"

Revise the first paragraph of Article 312.09 of the Standard Specifications to read:

"**312.09 Proportioning and Mix Design.** At least 60 days prior to start of placing CAM II, the Contractor shall submit samples of materials to be used in the work for proportioning and testing. The mixture shall contain a minimum of 200 lb (120 kg) of cement per cubic yard (cubic meter). Cement may be replaced with fly ash or ground granulated blast furnace (GGBF) slag according to Article 1020.05(c)(1) or 1020.05(c)(2), respectively, however the minimum cement content in the mixture shall be 170 lbs/cu yd (101 kg/cu m). Blends of coarse and fine aggregates will be permitted, provided the volume of fine aggregate does not exceed the volume of coarse aggregate. The Engineer will determine the proportions of materials for the mixture according to the "Portland Cement Concrete Level III Technician Course" manual. However, the Contractor may substitute their own mix design. Article 1020.05(a) shall apply, and a Level III PCC Technician shall develop the mix design."

Revise Article 352.02 of the Standard Specifications to read:

"**352.02 Materials.** Materials shall be according to the following.

Item	Article/Section
(a) Cement (Note 1)	1001
(b) Soil for Soil-Cement Base Course	1009.03
(c) Water	1002
(d) Bituminous Materials (Note 2)	1032

Note 1. Bulk cement may be used for the traveling mixing plant method if the equipment for handling, weighing, and spreading the cement is approved by the Engineer.

Note 2. The bituminous materials used for curing shall be emulsified asphalt RS-2, CRS-2, HFE 90, or HFE 150; rapid curing liquid asphalt RC-70; or medium curing liquid asphalt MC-70 or MC-250."

Revise Article 404.02 of the Standard Specifications to read:

"**404.02 Materials.** Materials shall be according to the following.

Item	Article/Section
(a) Cement	1001
(b) Water	1002
(c) Fine Aggregate	1003.08
(d) Bituminous Material (Tack Coat)	1032.06
(e) Emulsified Asphalts (Note 1) (Note 2)	1032.06
(f) Fiber Modified Joint Sealer	1050.05
(g) Additives (Note 3)	

Note 1. When used for slurry seal, the emulsified asphalt shall be CQS-1h according to Article 1032.06(b).

Note 2. When used for micro-surfacing, the emulsified asphalt shall be CQS-1hP according to Article 1032.06(e).

Note 3. Additives may be added to the emulsion mix or any of the component materials to provide the control of the quick-traffic properties. They shall be included as part of the mix design and be compatible with the other components of the mix.

Revise the last sentence of the fourth paragraph of Article 404.08 of the Standard Specifications to read:

"When approved by the Engineer, the sealant may be dusted with fine sand, cement, or mineral filler to prevent tracking."

Revise Note 2 of Article 516.02 of the Standard Specifications to read:

"Note 2. The sand-cement grout mix shall be according to Section 1020 and shall be a 1:1 blend of sand and cement comprised of a Type I, IL, or II cement at 185 lb/cu yd (110 kg/cu m). The maximum water cement ratio shall be sufficient to provide a flowable mixture with a typical slump of 10 in. (250 mm)."

Revise Note 2 of Article 543.02 of the Standard Specifications to read:

"Note 2. The grout mixture shall be 6.50 hundredweight/cu yd (385 kg/cu m) of cement plus fine aggregate and water. Fly ash or ground granulated blast furnace (GGBF) slag may replace a maximum of 5.25 hundredweight/cu yd (310 kg/cu m) of the cement. The water/cement ratio, according to Article 1020.06, shall not exceed 0.60. An air-entraining admixture shall be used to produce an air content, according to Article 1020.08, of not less than 6.0 percent nor more than 9.0 percent of the volume of the grout. The Contractor shall have the option to use a water-reducing or high range water-reducing admixture."

Revise Article 583.01 of the Standard Specifications to read:

"**583.01 Description.** This work shall consist of placing cement mortar along precast, prestressed concrete bridge deck beams as required for fairing out any unevenness between adjacent deck beams prior to placing of waterproofing membrane and surfacing."

Revise Article 583.02(a) of the Standard Specifications to read:

"(a) Cement .....1001"

Revise the first paragraph of Article 583.03 of the Standard Specifications to read:

" **583.03 General.** This work shall only be performed when the air temperature is 45 °F (7 °C) and rising. The mixture for cement mortar shall consist of three parts sand to one part cement by volume. The amount of water shall be no more than that necessary to produce a workable, plastic mortar."

Revise Article 606.02(h) of the Standard Specifications to read:

"(h) Fibers (Note 1) .....1014"

Revise Note 1 in Article 606.02(h) of the Standard Specifications to read:

"Note 1. Fibers, when required, shall only be used in the concrete mixture for slipform applications."

Revise the third paragraph in Article 606.10 of the Standard Specifications to read:

"Welded wire fabric shall be 6 x 6 in. (150 x 150 mm) mesh, #4 gauge (5.74 mm), 58 lb (26 kg) per 100 sq ft (9 sq m)."

Revise Article 1001.01(d) of the Standard Specifications to read:

"(d) Rapid Hardening Cement. Rapid hardening cement shall be according to the Bureau of Materials Policy Memorandum "Portland or Blended Cement Acceptance Procedure for Qualified and Non-Qualified Plants", and ASTM C 1600, Type URH, Type VRH, or Type RH-CAC. It shall be used according to Article 1020.04 or when approved by the Engineer. The Contractor shall submit a report from the manufacturer or an independent lab that contains results for testing according to ASTM C 1600 which shows the cement meets the requirements of either Type URH, Type VRH, or Type RH-CAC. Test data shall be less than 1 year old from the date of submittal.

Revise Article 1001.01(e) of the Standard Specifications to read:

"(e) Other Cements. Other cements shall be according to the Bureau of Materials Policy Memorandum "Portland or Blended Cement Acceptance Procedure for Qualified and Non-Qualified Plants", and ASTM C 1157 or ASTM C 1600, as applicable. Other cements shall be used according to Article 1020.04 or when approved by the Engineer. For cements according to ASTM C 1157, the Contractor shall submit a report from the manufacturer or an independent lab that contains results of tests which shows the cement meets the requirements Type GU, HE, MS, MH, or LH. For cements according to ASTM C 1600, the Contractor shall submit a report from the manufacturer or an independent lab that contains results of tests which shows the cement meets the requirements Type MRH or GRH. Test data shall be less than 1 year old from the date of submittal."

Revise Article 1002.02 of the Standard Specifications to read:

"**1002.02 Quality**. Water used with cement in concrete or mortar and water used for curing concrete shall be clean, clear, and free from sugar. In addition, water shall be tested and evaluated for acceptance according to one of the following options.

OPTION 1.

(a) Acceptable limits for acidity and alkalinity when tested according to ITP T 26.

(1) Acidity -- 0.1 Normal NaOH ..... 2 ml max.*
(2) Alkalinity -- 0.1 Normal HCI..... 10 ml max.*

*To neutralize 200 ml sample.

(b) Acceptable limits for solids when tested according to the following.

(1) Organic (ITP T 26)..... 0.02% max.
(2) Inorganic (ITP T 26) ..... 0.30% max.
(3) Sulfate (SO4) (ASTM D 516-82) ..... 0.05% max.
(4) Chloride (ASTM D 512)..... 0.06% max.

(c) The following tests shall be performed on the water sample and on deionized water. The same cement and sand shall be used for both tests.

(1) Unsoundness (ASTM C 151).
(2) Initial and Final Set Time (ASTM C 266).
(3) Strength (ASTM C 109).

The test results for the water sample shall not deviate from the test results for the deionized water, except as allowed by the precision in the test method.

OPTION 2. Water shall meet the requirements ASTM C 1602 Tables 1 and 2 as outlined in Sections 5.1, 5.2, and 5.4."

Revise Note 2/ in Article 1003.01(b) of the Standard Specifications to read:

"2/ Applies only to sand. Sand exceeding the colorimetric test standard of 11 (Illinois Modified AASHTO T 21) will be checked for mortar making properties according to Illinois Modified ASTM C 87 and shall develop a compressive strength at the age of 14 days when using Type I, IL, or II cement of not less than 95 percent of the comparable standard.

Revise the second sentence of Article 1003.02(e)(1) of the Standard Specifications to read:

"The test will be performed with Type I, IL, or II portland cement having a total equivalent alkali content ($Na_2O + 0.658K_2O$) of 0.90 percent or greater."

Revise the first sentence of the second paragraph of Article 1003.02(e)(3) of the Standard Specifications to read:

"The ASTM C 1293 test shall be performed with Type I, IL, or II portland cement having a total equivalent alkali content ($Na_2O + 0.658K_2O$) of 0.80 percent or greater."

Revise the second sentence of Article 1004.02(g)(1) of the Standard Specifications to read:

"The test will be performed with Type I, IL, or II portland cement having a total equivalent alkali content ($Na_2O + 0.658K_2O$) of 0.90 percent or greater."

Add the following Section to the Standard Specifications.

"**SECTION 1014. FIBERS FOR CONCRETE**

1014.01 General. Fibers used in concrete shall be Type II or Type III (polyolefin or carbon) according to ASTM C 1116. The testing required for Type II fibers or Type III polyolefin fibers shall be performed by an independent lab a minimum of once every five years, and the test results provided to the Department. Manufacturers of Type III carbon fibers shall provide materials certification documentation not more than 6 years old a minimum of once every 5 years to the Department. The Department will maintain a qualified product list. The method of inclusion of fibers into concrete mixtures shall be according to the manufacturer's specifications.

At the discretion of the Engineer, the concrete mixture shall be evaluated in a field demonstration for fiber clumping, ease of placement, and ease of finishing. The field demonstration shall consist of a minimum 2 cu yd (1.5 cu m) trial batch placed in a 12 ft x 12 ft (3.6 m x 3.6 m) slab.

1014.02 Concrete Gutter, Curb, Median and Paved Ditch. Fibers shall be Type III. Fibers shall have a minimum length of 1/2 in. (13 mm) and a maximum length of 0.75 in. (19 mm). The maximum dosage rate in the concrete mixture shall not exceed 1.5 lb/cu yd (0.9 kg/cu m). The minimum dosage rate shall be per the manufacturer's recommendation.

1014.03 Concrete Inlay or Overlay. Fibers shall be Type III. Fibers shall have a minimum length of 1.0 in. (25 mm), a maximum length of 2 1/2 in. (63 mm), and a maximum aspect ratio (length divided by the equivalent diameter of the fiber) of 150. The maximum dosage rate shall not exceed 5.0 lb/cu yd (3.0 kg/cu m). The minimum dosage rate shall be per the manufacturer's recommendation.

1014.04 Bridge Deck Fly Ash, Ground Granulated Blast Furnace (GGBF) Slag, High Reactivity Metakaolin, or Microsilica (Silica Fume) Concrete Overlay. Fibers shall be Type III. The dosage rate shall be a minimum of 3.0 lb/cu yd (1.8 kg/cu m), unless a field demonstration according to Article 1014.01 indicates that a lower dosage rate is necessary. Based on the results of the field demonstration, the Department has the option to reduce the dosage rate of fibers, but the dosage will not be reduced to less than 2.0 lb / cu yd (1.2 kg/cu m).

1014.05 Bridge Deck Latex Concrete Overlay. Fibers shall be Type II or III. Fibers shall have a minimum length of 0.75 in. (19 mm), a maximum length of 1.75 in. (45 mm), and an aspect ratio (length divided by the equivalent diameter of the fiber) of between 70 and 100. The dosage rate shall be a minimum of 3.0 lb/cu yd (1.8 kg/cu m), unless a field demonstration according to Article 1014.01 indicates that a lower dosage rate is necessary. Based on the results of the field demonstration, the Department has the option to reduce the dosage rate of fibers, but the dosage will not be reduced to less than 2.0 lb/cu yd (1.2 kg/cu m)."

Add the following Section to the Standard Specifications:

"SECTION 1015. HIGH PERFORMANCE SHOTCRETE

1015.01 Packaged Shotcrete With Aggregate. The packaged shotcrete with aggregate shall be a pre-blended dry combination of materials for the wet-mix shotcrete method according to ASTM C 1480, Type FA or CA, Grade FR, Class I. The fibers shall be Type III according to Article 1014.01. The cement and finely divided minerals in the mixture shall be a minimum 6.65 cwt/cu yd (395 kg/cu m), and the portland cement shall not be below 4.70 cwt/cu yd (279 kg/cu m). Microsilica is required in the mixture and shall be a minimum of 5 percent by weight (mass) of cementitious material, and a maximum of 10 percent. Strength requirements shall be

according to ASTM C 1480 except that the strength at 28 days shall be at least 4000 psi (27,500 kPa). Strength testing shall be according to ASTM C 1140. The air content as shot shall be 4.0 – 8.0 percent when tested according to AASHTO T 152, and the coarse aggregate shall be a maximum size of 1/2 in. (12.5 mm).

The packaged shotcrete shall have a water soluble chloride ion content of less than 0.15% by weight of cementitious material when tested according to ASTM C 1218 or AASHTO T 260.

The testing according to ASTM C 1480, ASTM C 1140, AASHTO 152, and ASTM C 1218 or AASHTO T 260 shall be performed by an independent lab a minimum of once every 5 years, and the test results shall be provided to the Department. The Department will maintain a qualified product list. Batching and mixing shall be per the manufacturer's recommendations.

1015.02 Packaged Shotcrete Without Aggregate. The packaged shotcrete that does not include pre-blended aggregate shall be according to Article 1015.01, except the added aggregate shall be according to Articles 1003.02 and 1004.02. The aggregate gradation shall be according to the manufacturer. The Department will maintain a qualified product list. Batching and mixing shall be per the manufacturer's recommendations."

Revise Section 1017 of the Standard Specifications to read:

"SECTION 1017. PACKAGED, DRY, COMBINED MATERIALS FOR MORTAR AND CONCRETE

1017.01 Mortar. The mortar shall be high-strength according to ASTM C 387 and shall have a minimum 80.0 percent relative dynamic modulus of elasticity when tested according to AASHTO T 161. For prestressed concrete applications, the mortar shall have a water-soluble chloride ion content of less than 0.06 percent by weight of cementitious material when tested according to ASTM C 1218 or AASHTO T 260; and for non-prestressed concrete applications, the water soluble chloride content shall be less than 0.15 percent by weight of cementitious material. The testing according to ASTM C 387, AASHTO T 161, and either ASTM C 1218 or AASHTO T 260 shall be performed by an independent lab a minimum of once every five years, and the test results shall be provided to the Department. The Department will maintain a qualified product list. Mixing of the high-strength mortar shall be according to the manufacturer's specifications.

1017.02 Concrete. The materials, testing, and preparation of aggregate for the "high slump" packaged concrete mixture shall be according to ASTM C 387. The mixture shall be air entrained, the slump shall be 5-10 in. (125-250 mm), and the coarse aggregate shall be a maximum size of 1/2 in. (12.5 mm). Strength requirements shall be according to ASTM C 387 except that the strength at 28 days shall be at least 4000 psi (27,500 kPa). The "high slump" packaged concrete mixture shall have a water soluble chloride ion content of less than 0.15% by weight of cementitious material when tested according to ASTM C 1218 or AASHTO T 260. The testing according to ASTM C 387, and either ASTM C 1218 or AASHTO T 260 shall be performed by an independent lab a minimum of once every 5 years, and the test results shall be provided to the Department. The Department will maintain a qualified product list. Mixing shall be per the manufacturer's recommendations.

1017.02 Self-Consolidating Concrete. The materials, testing, and preparation of aggregate for the "self-consolidating concrete" packaged concrete mixture shall be according to ASTM C 387. The mixture shall be air entrained, it should be uniformly graded, and the coarse aggregate shall be a maximum size of 1/2 in. (12.5 mm). Strength requirements shall be

according to ASTM C 387 except that the strength at 28 days shall be at least 4000 psi (27,500 Pa). Slump flow range shall be 22 in. (550 mm) minimum to 28 in. (700 mm) maximum when tested according to AASHTO T 347. The visual stability index shall be a maximum of 1 when tested according to AASHTO T 351. At the option of the manufacturer, either the J-Ring value shall be a maximum of 2 in. (50 mm) when tested according to AASHTO T 347 or the L-Box blocking ratio shall be a minimum of 80 percent when tested according AASHTO T 419. The hardened visual stability index shall be a maximum of 1 when tested according to AASHTO R 81.

The "self -consolidating concrete" packaged concrete mixture shall have a water soluble chloride ion content of less than 0.15 percent by weight of cementitious material when tested according to ASTM C 1218 or AASHTO T 260.

The testing according to ASTM C 387, AASHTO T 347, AASHTO T 351, AASHTO T 419, AASHTO R 81, ASTM C 1218 and AASHTO T 260 shall be performed by an independent lab a minimum of once every 5 years, and the test results shall be provided to the Department. The Department will maintain a qualified product list. Mixing shall be per the manufacturer's recommendations."

Revise Article 1018.01 of the Standard Specifications to read:

"**1018.01 Requirements.** The rapid hardening mortar or concrete shall be according to ASTM C 928 and shall have successfully completed and remain current with the AASHTO Product Eval and Audit Rapid Hardening Concrete Patching Materials (RHCP) testing program. R1, R2, or R3 concrete shall be air entrained, the slump shall be 5-10 in. (125-250 mm), and the coarse aggregate shall be a maximum size of 1/2 in. (12.5 mm). For prestressed concrete applications, the mortar or concrete shall have a water-soluble chloride ion content of less than 0.06 percent by weight of cementitious material when tested according to ASTM C 1218 or AASHTO T 260; and for non-prestressed concrete applications, the water soluble chloride content shall be less than 0.15 percent by weight of cementitious material. The Department will maintain a qualified product list. Mixing of the mortar or concrete shall be according to the manufacturer's specifications.."

Revise Article 1019.02 of the Standard Specifications to read:

"**1019.02 Materials.** Materials shall be according to the following.

Item	Article/Section
(a) Cement	1001
(b) Water	1002
(c) Fine Aggregate for Controlled Low-Strength Material (CLSM)	1003.06
(d) Fly Ash	1010
(e) Ground Granulated Blast Furnace (GGBF) Slag	1010
(f) Admixtures (Note 1)	

Note 1. The air-entraining admixture may be in powder or liquid form. The air content produced by the admixture shall be 15-25 percent when incorporated into Mix 2 or an equivalent mixture as determined by the Department and tested according to AASHTO T 121 or AASHTO T 152. The testing according to AASHTO T 121 or AASHTO T 152 shall be performed by an independent lab a minimum of once every five years, and the test results shall be provided to the Department. The Department will maintain a qualified product list."

Revise the third paragraph of Article 1019.04 of the Standard Specifications to read:

"The Engineer will instruct the Contractor to adjust the proportions of the mix design in the field as needed to meet the design criteria, provide adequate flowability, maintain proper solid suspension, or other criteria established by the Engineer."

Revise Article 1019.05 of the Standard Specifications to read:

"**1019.05 Department Mix Design.** The Department mix design shall be Mix 1, 2, or 3 and shall be proportioned to yield approximately one cubic yard (cubic meter).

Mix 1	
Cement	50 lb (30 kg)
Fly Ash – Class C or F, and/or GGBF Slag	125 lb (74 kg)
Fine Aggregate – Saturated Surface Dry	2900 lb (1720 kg)
Water	50-65 gal (248-322 L)
Air Content	No air is entrained

Mix 2	
Cement	125 lb (74 kg)
Fine Aggregate – Saturated Surface Dry	2500 lb (1483 kg)
Water	35-50 gal (173-248 L)
Air Content	15-25 %

Mix 3	
Cement	40 lb (24 kg)
Fly Ash – Class C or F, and/or GGBF Slag	125 lb (74 kg)
Fine Aggregate – Saturated Surface Dry	2500 lb (1483 kg)
Water	35-50 gal (179-248 L)
Air Content	15-25 %"

Revise Article 1020.04, Table 1, Note (8) of the Standard Specifications to read:

"(8) In addition to the Type III portland cement, 100 lb/cu yd of ground granulated blast-furnace slag and 50 lb/cu yd of microsilica (silica fume) shall be used. For an air temperature greater than 85 ºF, the Type III portland cement may be replaced with Type I, IL, or II portland cement."

Revise Article 1020.04, Table 1 (Metric), Note (8) of the Standard Specifications to read:

"(8) In addition to the Type III portland cement, 60 kg/cu m of ground granulated blast-furnace slag and 30 kg/cu m of microsilica (silica fume) shall be used. For an air temperature greater than 30 ºC, the Type III portland cement may be replaced with Type I, IL, or II portland cement."

Revise Note 9 of Table 1 of Article 1020.04 of the Standard Specifications to read:

"(9) The cement shall be a rapid hardening according to Article 1001.01(d). Minimum or maximum cement factor may be adjusted when approved by the Engineer."

Revise the second paragraph of Article 1020.05(a) of the Standard Specifications to read:

"For a mix design using a portland-pozzolan cement, portland blast-furnace slag cement, portland-limestone cement, or replacing portland cement with finely divided minerals per Articles 1020.05(c) and 1020.05(d), the Contractor may submit a mix design with a minimum portland cement content less than 400 lbs/cu yd (237 kg/cu m), but not less than 375 lbs/cu yd (222 kg/cu m), if the mix design is shown to have a minimum relative dynamic modulus of elasticity of 80 percent determined according to AASHTO T 161. Testing shall be performed by an independent laboratory accredited by AASHTO re:source for Portland Cement Concrete."

Revise the first sentence of the first paragraph of Article 1020.05(b) of the Standard Specifications to read:

"Corrosion inhibitors and concrete admixtures shall be according to the qualified product lists."

Delete the fourth and fifth sentences of the second paragraph of Article 1020.05(b) of the Standard Specifications.

Revise Article 1020.05(b)(5) of the Standard Specifications to read:

"(5) For Class PP-4 concrete, a high range water-reducing admixture, retarder, and/or hydration stabilizer may be used in addition to the air-entraining admixture. The Contractor also has the option to use a water-reducing admixture with the high range water-reducing admixture. An accelerator shall not be used. A mobile portland cement concrete plant shall be used to produce the patching mixture.

For PP-5 concrete, a non-chloride accelerator, high range water-reducing admixture, retarder, hydration stabilizer, and/or air-entraining admixture may be used. The accelerator, high range water-reducing admixture, retarder, hydration stabilizer, and/or air-entraining admixture shall be per the Contractor's recommendation and dosage. The qualified product list of concrete admixtures shall not apply. A mobile portland cement concrete plant shall be used to produce the patching mixture."

Revise second paragraph of Article 1020.05(b)(10) of the Standard Specifications to read:

"When calcium nitrite is used, it shall be added at the rate of 4 gal/cu yd (20 L/cu m) and shall be added to the mix immediately after all compatible admixtures have been introduced to the batch. Other corrosion inhibitors shall be added per the manufacturer's specifications."

Delete the third paragraph of Article 1020.05(b)(10) of the Standard Specifications.

Revise Article 1020.15(b)(1)c. of the Standard Specifications to read:

"c. The minimum portland cement content in the mixture shall be 375 lbs/cu yd (222 kg/cu m). When the total of organic processing additions, inorganic

processing additions, and limestone addition exceed 5.0 percent in the cement, the minimum portland cement content in the mixture shall be 400 lbs/cu yd (237 kg/cu m). For a drilled shaft, foundation, footing, or substructure, the minimum portland cement may be reduced to as low as 330 lbs/cu yd (196 kg/cu m) if the concrete has adequate freeze/thaw durability. The Contractor shall provide freeze/thaw test results according to AASHTO T 161, and the relative dynamic modulus of elasticity of the mix design shall be a minimum of 80 percent. Testing shall be performed by an independent laboratory accredited by AASHTO re:source for Portland Cement Concrete. Freeze/thaw testing will not be required for concrete that will not be exposed to freezing and thawing conditions as determined by the Engineer."

Revise Article 1021.01 of the Standard Specifications to read:

"**1021.01 General.** Admixtures shall be furnished in liquid or powder form ready for use. The admixtures shall be delivered in the manufacturer's original containers, bulk tank trucks or such containers or tanks as are acceptable to the Engineer. Delivery shall be accompanied by a ticket which clearly identifies the manufacturer, the date of manufacture, and trade name of the material. Containers shall be readily identifiable as to manufacturer, the date of manufacture, and trade name of the material they contain.

Concrete admixtures shall be on one of the Department's qualified product lists. Unless otherwise noted, admixtures shall have successfully completed and remain current with the AASHTO Product Eval and Audit Concrete Admixture (CADD) testing program. For admixture submittals to the Department; the product brand name, manufacturer name, admixture type or types, an electronic link to the product's technical data sheet, and the NTPEP testing number which contains an electronic link to all test data shall be provided. In addition, a letter shall be submitted certifying that no changes have been made in the formulation of the material since the most current round of tests conducted by AASHTO Product Eval and Audit. After 28 days of testing by AASHTO Product Eval and Audit, air-entraining admixtures may be provisionally approved and used on Departmental projects. For all other admixtures, unless otherwise noted, the time period after which provisionally approved status may be earned is 6 months.

The manufacturer shall include the following in the submittal to the AASHTO Product Eval and Audit CADD testing program: the manufacturing range for specific gravity, the midpoint and manufacturing range for residue by oven drying, and manufacturing range of pH. The submittal shall also include an infrared spectrophotometer trace no more than five years old.

For air-entraining admixtures according to Article 1021.02, the specific gravity allowable manufacturing range established by the manufacturer shall be according to AASHTO M 194. For residue by oven drying and pH, the allowable manufacturing range and test methods shall be according to AASHTO M 194.

For admixtures according to Articles 1021.03, 1021.04, 1021.05, 1021.06, 1021.07, and 1021.08, the pH allowable manufacturing range established by the manufacturer shall be according to ASTM E 70. For specific gravity and residue by oven drying, the allowable manufacturing range and test methods shall be according to AASHTO M 194.

All admixtures, except chloride-based accelerators, shall contain a maximum of 0.3 percent chloride by weight (mass) as determined by an appropriate test method. To verify the test result, the Department will use Illinois Modified AASHTO T 260, Procedure A, Method 1.

Prior to final approval of an admixture, the Engineer reserves the right to request a sample for testing. The test and reference concrete mixtures tested by the Engineer will contain a cement content of 5.65 cwt/cu yd (335 kg/cu m). For freeze-thaw testing, the Department will perform the test according to Illinois Modified AASHTO T 161. The flexural strength test will be performed according to AASHTO T 177. If the Engineer decides to test the admixture, the manufacturer shall submit AASHTO T 197 water content and set time test results on the standard cement used by the Department. The manufacturer may select their lab or an independent lab to perform this testing. The laboratory is not required to be accredited by AASHTO.

Random field samples may be taken by the Department to verify an admixture meets specification. A split sample will be provided to the manufacturer if requested. Admixtures that do not meet specification requirements or an allowable manufacturing range established by the manufacturer shall be replaced with new material."

Revise Article 1021.03 of the Standard Specifications to read:

"**1021.03 Retarding and Water-Reducing Admixtures.** The admixture shall be according to the following.

(a) Retarding admixtures shall be according to AASHTO M 194, Type B (retarding) or Type D (water-reducing and retarding).

(b) Water-reducing admixtures shall be according to AASHTO M 194, Type A.

(c) High range water-reducing admixtures shall be according to AASHTO M 194, Type F (high range water-reducing) or Type G (high range water-reducing and retarding)."

Revise Article 1021.05 of the Standard Specifications to read:

"**1021.05 Self-Consolidating Admixtures.** Self-consolidating admixture systems shall consist of either a high range water-reducing admixture only or a high range water-reducing admixture combined with a separate viscosity modifying admixture. The one or two component admixture system shall be capable of producing a concrete that can flow around reinforcement and consolidate under its own weight without additional effort and without segregation.

High range water-reducing admixtures shall be according to AASHTO M 194, Type F.

Viscosity modifying admixtures shall be according to AASHTO M 194, Type S (specific performance)."

Revise Article 1021.06 of the Standard Specifications to read:

"**1021.06 Rheology-Controlling Admixture.** Rheology-controlling admixtures shall be capable of producing a concrete mixture with a lower yield stress that will consolidate easier for slipform applications used by the Contractor. Rheology-controlling admixtures shall be according to AASHTO M 194, Type S (specific performance)."

Revise Article 1021.07 of the Standard Specifications to read:

"**1021.07 Corrosion Inhibitor.** The corrosion inhibitor shall be according to one of the following.

(a) Calcium Nitrite. Corrosion inhibitors shall contain a minimum 30 percent calcium nitrite by weight (mass) of solution and shall comply with either the requirements of AASHTO M 194, Type C (accelerating) or the requirements of ASTM C 1582. The corrosion inhibiting performance requirements of ASTM C 1582 shall not apply.

(b) Other Materials. The corrosion inhibitor shall be according to ASTM C 1582.

For submittals requiring testing according to ASTM M 194, Type C (accelerating), the admixture shall meet the requirements of the AASHTO Product Eval and Audit CADD testing program according to Article 1021.01.

For submittals requiring testing according to ASTM C 1582, a report prepared by an independent laboratory accredited by AASHTO re:source for portland cement concrete shall be provided. The report shall show the results of physical tests conducted no more than five years prior to the time of submittal, according to applicable specifications. However, ASTM G 109 test information specified in ASTM C 1582 is not required to be from an independent accredited lab. All other information in ASTM C 1582 shall be from an independent accredited lab. Test data and other information required to be submitted to AASHTO Product Eval and Audit according to Article 1021.01, shall instead be submitted directly to the Department."

Add Article 1021.08 of the Standard Specifications as follows:

"**1021.08 Other Specific Performance Admixtures.** Other specific performance admixtures shall, at a minimum, be according to AASHTO M 194, Type S (specific performance). The Department also reserves the right to require other testing, as determined by the Engineer, to show evidence of specific performance characteristics.

Initial testing according to AASHTO M 194 may be conducted under the AASHTO Product Eval and Audit CADD testing program according to Article 1021.01, or by an independent laboratory accredited by AASHTO re:source for Portland Cement Concrete. In either case, test data and other information required to be submitted to AASHTO Product Eval and Audit according to Article 1021.01, shall also be submitted directly to the Department. The independent accredited lab report shall show the results of physical tests conducted no more than five years prior to the time of submittal, according to applicable specifications."

Add Article 1021.09 of the Standard Specifications as follows:

"**1021.09 Latex Admixtures**. The latex admixture shall be a uniform, homogeneous, non-toxic, film-forming, polymeric emulsion in water to which all stabilizers have been added at the point of manufacture. The latex admixture shall not contain any chlorides and shall contain 46-49 percent solids.

In lieu of meeting the requirements of Article 1021.01, the Contractor shall submit a manufacturer's certification that the latex emulsion meets the requirements of FHWA Research Report RD-78-35, Chapter VI. The certificate shall include the date of manufacture of the latex admixture, batch or lot number, quantity represented, manufacturer's name, and the location of the manufacturing plant. The latex emulsion shall be sampled and tested in accordance with RD-78-35, Chapter VII, Certification Program.

The latex admixture shall be packaged and stored in containers and storage facilities which will protect the material from freezing and from temperatures above 85°F (30°C). Additionally, the material shall not be stored in direct sunlight and shall be shaded when stored outside of buildings during moderate temperatures."

Revise Article 1024.01 of the Standard Specifications to read:

"**1024.01 Requirements for Grout.** The grout shall be proportioned by dry volume, thoroughly mixed, and shall have a minimum temperature of 50 °F (10 °C). Water shall not exceed the minimum needed for placement and finishing.

Materials for the grout shall be according to the following.

Item	Article/Section
(a) Cement	1001
(b) Water	1002
(c) Fine Aggregate	1003.02
(d) Fly Ash	1010
(e) Ground Granulated Blast Furnace (GGBF) Slag	1010
(f) Concrete Admixtures	1021"

Revise Note 1 of Article 1024.02 of the Standard Specifications to read:

"Note 1. Nonshrink grout shall be according to ASTM C 1107.

For prestressed concrete applications, the nonshrink grout shall have a water soluble chloride ion content of less than 0.06 percent by weight of cementitious material when tested according to ASTM C 1218 or AASHTO T 260; and for non-prestressed concrete applications, the water soluble chloride ion content shall be less than 0.15 percent by weight of cementitious material. The testing according to ASTM 1107, and either ASTM C 1218 or AASHTO T 260 shall be performed by an independent lab a minimum of once every five years, and the test results shall be provided to the Department. The Department will maintain a qualified product list. Mixing of the nonshrink grout shall be according to the manufacturer's specifications."

Revise Article 1029.02 of the Standard Specifications to read:

" **1029.02 Materials.** Materials shall be according to the following.

Item	Article/Section
(a) Cement	1001
(b) Fly Ash	1010
(c) Ground Granulated Blast Furnace (GGBF) Slag	1010
(d) Water	1002
(e) Fine Aggregate	1003
(f) Concrete Admixtures	1021
(g) Foaming Agent (Note 1)	

Note 1. The manufacturer shall submit infrared spectrophotometer trace and test results indicating the foaming agent meets the requirements of ASTM C 869 in order to be on the

Department's qualified product list. Submitted data/results shall not be more than five years old."

Revise the second paragraph of Article 1103.03(a)(4) the Standard Specifications to read:

"The dispenser system shall provide a visual indication that the liquid admixture is actually entering the batch, such as via a transparent or translucent section of tubing or by independent check with an integrated secondary metering device. If approved by the Engineer, an alternate indicator may be used for admixtures dosed at rates of 25 oz/cwt (1630 mL/100 kg) or greater, such as accelerating admixtures, corrosion inhibitors, and viscosity modifying admixtures."

Revise Article 1103.04 of the Standard Specifications to read:

" **1103.04 Mobile Portland Cement Concrete Plants.** The mobile concrete plant shall be according to AASHTO M 241 and the Bureau of Materials Policy Memorandum "Approval of Volumetric Mobile Mixers for Concrete". The mixer shall be capable of carrying sufficient unmixed materials to produce not less than 6 cu yd (4.6 cu m) of concrete."

Revise the first two sections of Check Sheet #11 "Subsealing of Concrete Pavements" of the Recurring Special Provisions to read:

"Description. This work shall consist of filling voids beneath rigid and composite pavements with cement grout.

Materials. Materials shall be according to the following Articles/Sections of the Standard Specifications:

Item	Article/Section
(a) Cement	1001
(b) Water	1002
(c) Fly Ash	1010
(d) Ground Granulated Blast Furnace (GGBF) Slag	1010
(e) Admixtures	1021
(f) Packaged Rapid Hardening Mortar or Concrete	1018"

Revise the Materials section of Check Sheet #28 "Portland Cement Concrete Inlay or Overlay" of the Recurring Special Provisions to read:

"Materials. Materials shall be according to the following Articles/Sections of the Standard Specifications.

Item	Article/Section
(a) Portland Cement Concrete (Note 1)	1020
(b) Fibers for Concrete	1014
(c) Protective Coat	1023.01

Note 1. Class PV concrete shall be used, except the cement factor for central mixed concrete shall be 6.05 cwt/cu yd (360 kg/cu m). A cement factor reduction according to Article 1020.05(b)(8) of the Standard Specifications will be permitted. CA 5 shall not be used and CA 7 may only be used for overlays that are a minimum of 4.5 in. (113 mm)

thick. The Class PV concrete shall have a minimum flexural strength of 550 psi (3800 kPa) or a minimum compressive strength of 3000 psi (20,700 kPa) at 14 days."

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: January 1, 2025

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 according to the table below.

Horsepower Range	Model Year and Older
50-99	2003
100-299	2002
300-599	2000
600-749	2001
750 and up	2005

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* (https://www.epa.gov/verified-diesel-tech/verified-technologies-list-clean-diesel), 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.

ILLINOIS WORKS APPRENTICESHIP INITIATIVE – STATE FUNDED CONTRACTS (BDE)

Effective: June 2, 2021 Revised: April 2, 2024

Illinois Works Jobs Program Act (30 ILCS 559/20-1 et seq.). For contracts having an awarded contract value 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 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. Of this goal, at least 50% of the labor hours of each prevailing wage classification performed by apprentices shall be performed by graduates of the Illinois Works Pre-Apprenticeship Program, the Illinois Climate Works Pre-Apprenticeship Program, or the Highway Construction Careers Training Program.

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. An apprentice use plan, apprentice hours, and a compliance certification shall be submitted to the Engineer on forms provided by the Department and/or DCEO.

PAVEMENT MARKING (BDE)

Effective: April 1, 2025 Revised: November 1, 2025

Revise the fourth sentence of the fourth paragraph of Article 780.05 of the Standard Specifications to read:

"Grooves for letters and symbols shall be cut in a rectangular shape or in the shape of the proposed marking so the entire marking will fit within the limits of the grooved area."

Revise the last sentence of the third paragraph of Article 780.08 of the Standard Specifications to read:

"The Contractor shall install the preformed plastic pavement markings according to the manufacturer's recommendations."

Revise the second sentence of the first paragraph of Article 780.13 of the Standard Specifications to read:

"In addition, thermoplastic, preformed plastic, epoxy, preformed thermoplastic, polyurea, and modified urethane pavement markings will be inspected following a winter performance period that extends from November 15 to April 1 of the next year."

REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES (BDE)

Effective: January 1, 2024 Revised: April 1, 2026

Revise the first paragraph of Article 669.04 of the Standard Specifications to read:

"**669.04 Regulated Substances Monitoring.** Regulated substances monitoring includes environmental observation and field screening during regulated substances management activities. The excavated soil and groundwater within the work areas shall be managed as either uncontaminated soil, hazardous waste, special waste, or non-special waste.

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)"."

Revise the first two sentences of the nineteenth paragraph of Article 669.05 of the Standard Specifications to read:

"The Contractor shall coordinate waste disposal approvals with the disposal facility and provide the specific analytical testing requirements of that facility. The Contractor shall make all arrangements for collection, transportation, and analysis of landfill acceptance testing."

Revise the last paragraph of Article 669.05 of the Standard Specifications to read:

"The Contractor shall select a permitted landfill facility or CCDD/USFO facility meeting the requirements of 35 Ill. Admin. Code Parts 810-814 or Part 1100, respectively. The Department will review and approve or reject the facility proposed by the Contractor based upon information provided in BDE 2730. The Contractor shall verify whether the selected facility is compliant with those applicable standards as mandated by their permit and whether the 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 facility shall in no manner delay the construction schedule or alter the Contractor's responsibilities as set forth."

Revise the first paragraph of Article 669.07 of the Standard Specifications to read:

"**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. All other 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.

Topsoil for re-use as final cover which has been field screened and found not to exhibit PID readings over daily background readings as documented on the BDE 2732, visual staining or odors, and is classified according to Articles 669.05(a)(2), (a)(3), (a)(4), (b)(1), or (c) may be temporarily staged at the Contractor's option."

Add the following paragraph after the fourth paragraph of Article 669.10 of the Standard Specifications.

"Regulated substances monitoring will be measured for payment per calendar day, where 4 or more hours of monitoring activities is defined as 1.0 calendar day and less than 4 hours of monitoring activities is defined as 0.5 calendar day."

Revise the second paragraph of Article 669.11 of the Standard Specification to read:

"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 for REGULATED SUBSTANCES MONITORING. In no case will more than 1.0 calendar day be paid on a given calendar day."

Add the following paragraph after the sixth paragraph of Article 669.11 of the Standard Specifications.

"The sampling and testing of effluent water derived from dewatering discharges for priority pollutants volatile organic compounds (VOCs), priority pollutants semi-volatile organic compounds (SVOCs), or priority pollutants metals, will be paid for at the contract unit price per each for VOCS GROUNDWATER ANALYSIS using EPA Method 8260B, SVOCS GROUNDWATER ANALYSIS using EPA Method 8270C, or RCRA METALS GROUNDWATER ANALYSIS using EPA Methods 6010B and 7471A. This price shall include transporting the sample from the job site to the laboratory."

Revise the first sentence of the eight paragraph of Article 669.11 of the Standard Specifications to read:

"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) to be managed and disposed of, if required and approved by the Engineer, will be paid according to Article 109.04."

SHORT TERM AND TEMPORARY PAVEMENT MARKINGS (BDE)

Effective: April 1, 2024 Revised: April 2, 2024

Revise Article 701.02(d) of the Standard Specifications to read:

"(d) Pavement Marking Tapes (Note 3) .....1095.06"

Add the following Note to the end of Article 701.02 of the Standard Specifications:

"Note 3. White or yellow pavement marking tape that is to remain in place longer than 14 days shall be Type IV tape."

Revise Article 703.02(c) of the Standard Specifications to read:

"(c) Pavement Marking Tapes (Note 1) .....1095.06"

Add the following Note to the end of Article 703.02 of the Standard Specifications:

"Note 1. White or yellow pavement marking tape that is to remain in place longer than 14 days shall be Type IV tape."

Revise Article 1095.06 of the Standard Specifications to read:

"**1095.06 Pavement Marking Tapes.** Type I white or yellow marking tape shall consist of glass spheres embedded into a binder on a foil backing that is precoated with a pressure sensitive adhesive. The spheres shall be of uniform gradation and distributed evenly over the surface of the tape.

Type IV tape shall consist of white or yellow tape with wet reflective media incorporated to provide immediate and continuing retroreflection in wet and dry conditions. The wet retroreflective media shall be bonded to a durable polyurethane surface. The patterned surface shall have approximately 40 ± 10 percent of the surface area raised and presenting a near vertical face to traffic from any direction. The channels between the raised areas shall be substantially free of exposed reflective elements or particles.

Blackout tape shall consist of a matte black, non-reflective, patterned surface that is precoated with a pressure sensitive adhesive.

(a) Color. The white and yellow markings shall meet the following requirements for daylight reflectance and color, when tested, using a color spectrophotometer with 45 degrees circumferential/zero degree geometry, illuminant D65, and two degree observer angle. The color instrument shall measure the visible spectrum from 380 to 720 nm with a wavelength measurement interval and spectral bandpass of 10 nm.

Color	Daylight Reflectance %Y
White	65 min.
Yellow *	36 - 59

*Shall match Aerospace Material Specification Standard 595 33538 (Orange Yellow) and the chromaticity limits as follows.

x	0.490	0.475	0.485	0.530
y	0.470	0.438	0.425	0.456

(b) Retroreflectivity. The white and yellow markings shall be retroreflective. Reflective values measured in accordance with the photometric testing procedure of ASTM D 4061 shall not be less than those listed in the table below. The coefficient of retroreflected luminance, R_L, shall be expressed as average millicandelas/footcandle/sq ft (millicandelas/lux/sq m), measured on a 3.0 x 0.5 ft (900 mm x 150 mm) panel at 86 degree entrance angle.

Coefficient of Retroreflected Luminance, R_L, Dry					
Type I			Type IV		
Observation Angle	White	Yellow	Observation Angle	White	Yellow
0.2°	2700	2400	0.2°	1300	1200
0.5°	2250	2000	0.5°	1100	1000

Wet retroreflectance shall be measured for Type IV under wet conditions according to ASTM E 2177 and meet the following.

Wet Retroreflectance, Initial R_L	
Color	R_L 1.05/88.76
White	300
Yellow	200

(c) Skid Resistance. The surface of Type IV and blackout markings shall provide a minimum skid resistance of 45 BPN when tested according to ASTM E 303.

(d) Application. The pavement marking tape shall have a precoated pressure sensitive adhesive and shall require no activation procedures. Test pieces of the tape shall be applied according to the manufacturer's instructions and tested according to ASTM D 1000, Method A, except that a stiff, short bristle roller brush and heavy hand pressure will be substituted for the weighted rubber roller in applying the test pieces to the metal test panel. Material tested as directed above shall show a minimum adhesion value of 750 g/in. (30 g/mm) width at the temperatures specified in ASTM D 1000. The adhesive shall be resistant to oils, acids, solvents, and water, and shall not leave objectionable stains or residue after removal. The material shall be flexible and conformable to the texture of the pavement.

(e) Durability. Type IV and blackout tape shall be capable of performing for the duration of a normal construction season and shall then be capable of being removed intact or in large sections at pavement temperatures above 40 °F (4 °C) either manually or with a roll-up device without the use of sandblasting, solvents, or grinding. The Contractor shall provide a manufacturer’s certification that the material meets the requirements for being removed after the following minimum traffic exposure based on transverse test decks with rolling traffic.

(1) Time in place - 400 days
(2) ADT per lane - 9,000 (28 percent trucks)
(3) Axle hits - 10,000,000 minimum

Samples of the material applied to standard specimen plates will be measured for thickness and tested for durability in accordance with ASTM D 4060, using a CS-17 wheel and 1000-gram load, and shall meet the following criteria showing no significant change in color after being tested for the number of cycles indicated.

Test	Type I	Type IV	Blackout
Minimum Initial Thickness, mils (mm)	20 (0.51)	65 (1.65) 1/ 20 (0.51) 2/	65 (1.65) 1/ 20 (0.51) 2/
Durability (cycles)	5,000	1,500	1,500

1/ Measured at the thickest point of the patterned surface.

2/ Measured at the thinnest point of the patterned surface.

The pavement marking tape, when applied according to the manufacturer's recommended procedures, shall be weather resistant and shall show no appreciable fading, lifting, or

shrinkage during the useful life of the marking. The tape, as applied, shall be of good appearance, free of cracks, and edges shall be true, straight, and unbroken.

(f) Sampling and Inspection.

(1) Sample. Prior to approval and use of Type IV pavement marking tape, the manufacturer shall submit a notarized certification from an independent laboratory, together with the results of all tests, stating that the material meets the requirements as set forth herein. The independent laboratory test report shall state the lot tested, the manufacturer's name, and the date of manufacture.

After initial approval by the Department, samples and certification by the manufacturer shall be submitted for each subsequent batch of Type IV tape used. The manufacturer shall submit a certification stating that the material meets the requirements as set forth herein and is essentially identical to the material sent for qualification. The certification shall state the lot tested, the manufacturer's name, and the date of manufacture.

(2) Inspection. The Contractor shall provide a manufacturer's certification to the Engineer stating the material meets all requirements of this specification. All material samples for acceptance tests shall be taken or witnessed by a representative of the Bureau of Materials and shall be submitted to the Engineer of Materials, 126 East Ash Street, Springfield, Illinois 62704-4766 at least 30 days in advance of the pavement marking operations."

SIGN PANELS AND APPURTENANCES (BDE)

Effective: January 1, 2025 Revised: January 1, 2026

Add Article 720.02(c) of the Standard Specifications to read:

"(c) Aluminum Epoxy Mastic .....1008.03"

Revise the second and third paragraphs of Article 720.02 of the Standard Specifications to read:

"The sign mounting support channel shall be manufactured from steel or aluminum and shall be according to Standard 720001.

Steel support channels shall be according to ASTM A 1011 (A 1011M), ASTM A 635 (A 635M), ASTM A 568 (A 568M), or ASTM A 684 (A 684M), and shall be galvanized. Galvanizing shall be according to ASTM A 653 (A 653M) when galvanized before fabrication, and AASHTO M 111 (M 111M) when galvanized after fabrication. Field or post fabricated drilled holes shall be spot painted with one coat of aluminum epoxy mastic paint prior to installation."

Revise the fifth paragraph of Article 720.02 of the Standard Specifications to read:

"The stainless steel banding for mounting signs or sign support channels to light or signal standards shall be according to ASTM A 240 (A 240M) Type 302 stainless steel."

Revise the first sentence of the tenth paragraph of Article 720.03 of the Standard Specifications to read:

"The backs of all sign panels shall be marked in a manner designed to last as long as the sign face material, in letters and numerals at least 3/8 in. (9.5 mm) but no more than 3/4 in. (19 mm) in height with the month and year of manufacture, the name of the sign manufacturer, the name of the sign sheeting manufacturer, the method of manufacture ("screened", "EC film", "direct applied", or "digital print"), and the initials IDOT."

Revise the first sentence of the fourth paragraph of Article 1091.03(a)(10) of the Standard Specifications to read:

"Transparent colors screened, or transparent acrylic electronic cutting films, or digital printing on white sheeting, shall meet the minimum initial coefficient of retroreflection values of the 0.2 degree observation angle, -4.0 degree entrance angle values as listed in the previous tables for the color being applied."

Add the following after the fourth paragraph of Article 1091.03(a)(10) of the Standard Specifications:

"Digitally printed signs shall be produced using digital print technologies and ink systems, products and processes that comply with the sheeting manufacturer's recommendation. The digitally printed signs shall be fabricated with a full sign protective overlay film designed to provide a smooth surface needed for retroreflectivity, and to protect the sign from fading and UV degradation. The overlaminate shall comply with the sheeting manufacturer's recommendations to ensure proper adhesion and transparency."

Add the following after the third paragraph of Article 1106.01 of the Standard Specifications:

"Digitally printed signs may omit protective overlay film."

SPEED DISPLAY TRAILER (BDE)

Effective: April 2, 2014 Revised: January 1, 2022

Revise the last 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 BIDDERS LIST INFORMATION (BDE)

Effective: January 2, 2025 Revised: March 2, 2025

In accordance with 49 CFR 26.11(c) all DBE and non-DBEs who bid as prime contractors and subcontractors shall provide bidders list information, including all DBE and non-DBE firms from whom the bidder has received a quote or bid to work as a subcontractor, whether or not the bidder has relied upon that bid in placing its bid as the prime contractor.

The bidders list information shall be submitted with the bid using the link provided within the "Integrated Contractor Exchange (iCX)" application of the Department's "EBids System".

SUBMISSION OF PAYROLL RECORDS – STATE CONTRACT (BDE)

Effective: April 1, 2021 Revised: April 1, 2026

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 Certified Transcript of Payroll Portal in compliance with the State Prevailing Wage Act (820 ILCS 130). The portal can be found on the IDOL website at https://labor.illinois.gov. Payrolls shall be submitted in the format prescribed by the IDOL.

In addition to filing certified payroll(s) with the IDOL, the Contractor and each subcontractor shall certify and submit payroll records to the Department each week from the start to the completion of their respective work, except that full social security numbers shall not be included on weekly submittals. Instead, the payrolls shall include an identification number for each employee (e.g., the last four digits of the employee's social security number). In addition, starting and ending times of work each day may be omitted from the payroll records submitted. The submittals shall be made using LCPtracker Pro software. The software is web-based and can be accessed at https://lcptracker.com/. When there has been no activity during a work week, a payroll record shall still be submitted with the appropriate option ("No Work", "Suspended", or "Complete") selected."

SURVEYING SERVICES (BDE)

Effective: April 1, 2025

Delete the fourth paragraph of Article 667.04 of the Standard Specifications.

Delete Section 668 of the Standard Specifications.

TRAFFIC SIGNAL BACKPLATE (BDE)

Effective: August 1, 2025

Revise the second sentence of the third paragraph of Article 1078.03 of the Standard Specifications to read:

"Retroreflective sheeting shall be Type AZ or Type ZZ according to Article 1091.03 and applied in the preferred orientation for the maximum angularity according to the manufacturer's recommendations."

VEHICLE AND EQUIPMENT WARNING LIGHTS (BDE)

Effective: November 1, 2021 Revised: November 1, 2022

Add the following paragraph after the first paragraph of Article 701.08 of the Standard Specifications:

"The Contractor shall equip all vehicles and equipment with high-intensity oscillating, rotating, or flashing, amber or amber-and-white, warning lights which are visible from all directions. In accordance with 625 ILCS 5/12-215, the lights may only be in operation while the vehicle or equipment is engaged in construction operations."

WORK ZONE TRAFFIC CONTROL DEVICES (BDE)

Effective: March 2, 2020 Revised: January 1, 2026

Add the following to Article 701.03 of the Standard Specifications:

"(q) Temporary Sign Supports .....1106.02"

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

"(p) Detectable Pedestrian Channelizing Barricades ..... 1106.02(m)"

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 shall be MASH compliant.

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 shall be MASH compliant.

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 compliant. Category 3 devices manufactured on or before December 31, 2019, and compliant with NCHRP 350, 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 sign supports, speed feedback displays, 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 compliant is available, an NCHRP 350 compliant device may be used, even if manufactured after December 31, 2019."

Revise the first paragraph of Section 1106.02(a) of the Standard Specifications to read:

"(a) Lights. Lights shall meet the requirements of Chapter 13 of the "Equipment and Materials Standards of the Institute of Transportation Engineers," 1998, Institute of Transportation Engineers, and shall be visible on a clear night from a distance of 3000 ft (900 m). Lights are classified as follows."

Revise Articles 1106.02(g), 1106.02(k), 1106.02(l), and 1106.02(m) of the Standard Specifications 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.

(m) Detectable Pedestrian Channelizing Barricades. The top panel or handrail shall be continuous and there should be at least a 2 in. (50 mm) gap between the hand trailing edge and its support. When visible to vehicular traffic, the top rail shall have alternating white and orange retroreflective stripes sloping at 45 degrees. The bottom panel shall be continuous and have alternating white and orange retroreflective stripes sloping at 45 degrees. Barricade stripes shall be 6 in. (150 mm) in width. The predominant color for other barricade components shall be white, orange, or silver."

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.