


JOB SPECIAL PROVISIONS TABLE OF CONTENTS

(Job Special Provisions shall prevail over General Special Provisions whenever in conflict therewith.)

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Job No.: JSLM0083  
Various Routes  
Various Counties

 <p>THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.</p>	<p><b>MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION</b> 105 W. CAPITOL AVE. JEFFERSON CITY, MO 65102 Phone 1-888-275-6636</p>
	<p>If a seal is present on this sheet, JSP's have been electronically sealed and dated.</p>
	<p>JOB NUMBER: JSLM0083 VARIOUS COUNTIES, MO DATE PREPARED: 1/29/26</p>
	<p>ADDENDUM DATE:</p>
<p>Only the following items of the Job Special Provisions (Roadway) are authenticated by this seal: All</p>	

JOB  
SPECIAL PROVISION

A. General – State JSP-09-03L

**1.0 Description.** The Federal Government is not participating in the cost of construction of this project.

**1.1** This contract requires payment of the prevailing hourly rate of wages for each craft or type of worker required to execute the contract as determined by the Missouri Department of Labor and Industrial Relations. The current State Wage Rates can be found on the Missouri Department of Transportation web page at [www.modot.org](http://www.modot.org) under "Doing Business with MoDOT", "Contractor Resources" for the applicable bid opening. This supplemental bidding document has important legal consequences. It shall be conclusively presumed that they are in the bidder's possession, and they have been reviewed and used by the bidder in the preparation of any bid submitted on this project.

State Wage Rates

**1.2** The following documents are available on the Missouri Department of Transportation web page at [www.modot.org](http://www.modot.org) under "Doing Business with MoDOT"; "Standards and Specifications". The effective version shall be determined by the letting date of the project.

General Provisions & Supplemental Specifications

Supplemental Plans to July 2025 Missouri Standard Plans  
For Highway Construction

These supplemental bidding documents contain all current revisions to the published versions and have important legal consequences. It shall be conclusively presumed that they are in the bidder's possession, and they have been reviewed and used by the bidder in the preparation of any bid submitted on this project.

B. Project Contact for Contractor/Bidder Questions JSP-96-05A

**1.0** Any project specific questions shall be directed to the following contact:

Stacey Smith, P.E.  
Transportation Project Manager  
Missouri Department of Transportation  
St. Louis District  
1590 Woodlake Drive  
Chesterfield, MO 63017  
E-mail: [Anastasia.Smith@modot.mo.gov](mailto:Anastasia.Smith@modot.mo.gov)  
Telephone Number 314-453-5084  
Fax Number 573-526-0089 (address cover letter to Stacey Smith)

**2.0** Upon award and execution of the contract, the successful bidder/contractor shall forward all questions and coordinate the work with the contract administrator. The contract will be administered and inspected by the engineer/contract administrator listed below:

Tim Hellebusch, P.E.  
Resident Engineer  
Missouri Department of Transportation  
St. Louis District  
1590 Woodlake Drive  
Chesterfield, MO 63017  
E-mail: [Tim.Hellebusch@modot.mo.gov](mailto:Tim.Hellebusch@modot.mo.gov)  
Telephone Number 314-370-3306

**3.0** All questions concerning the bid document preparation can be directed to the Central Office – Design as listed below:

Telephone Number: (573) 751-2876  
Email: [BCS@modot.mo.gov](mailto:BCS@modot.mo.gov)

C. Scope of Work

**1.0** The scope of work for this project is to replace damaged or defective signal induction loops and wireless in-pavement detectors in accordance with MoDOT's and the manufacturer's specifications on an as needed basis throughout the metropolitan St. Louis region. The work will include performing all connections, tagging, and detector adjustments to restore detection systems to proper working order. The engineer reserves the right to have others perform some or all of the work at individual locations based on the needs of the Commission.

**2.0** The work will be performed along Commission maintained roadways in St. Louis City, St. Charles, St. Louis, Jefferson and Franklin Counties.

**3.0** Work may be required during both daytime, nighttime, and/or weekend hours.

**4.0** The Commission is not bound to issue a minimum or maximum number of Job Orders during the contract term. Award of contract does not guarantee any Job Orders during the duration of the contract.

D. Job Order Contract

**1.0** A Job Order Contract is an indefinite quantity contract pursuant to which the contractor shall perform the work itemized in a Job Order at individual work locations throughout the project limits. The contractor shall perform all tasks itemized in the Job Order.

**2.0** The contract includes a list of fixed cost pay items with fixed unit prices. Payment for the work will be determined by multiplying the fixed unit prices by the Adjustment Factor. The contractor shall bid the Adjustment Factor to be applied to the fixed unit prices. The total cost of an individual Job Order will be determined by multiplying the fixed unit price of each fixed cost pay item by the Adjustment Factor.

### 3.0 Definitions.

**3.1. Detailed Scope of Work.** A written document that sets forth the work the contractor is obligated to perform in connection with a particular Job Order.

**3.2 Job Order.** A written order from the engineer to the contractor directing the work required at an individual work location in accordance with the Detailed Scope of Work within the Job Order Completion Time.

**3.3 Job Order Completion Time.** The time within which the contractor must complete the Detailed Scope of Work for a particular Job Order.

**3.4 Fixed Cost Pay Item.** Work for which a description and fixed cost is set forth in the fixed cost pay item list.

**3.5 Non-Fixed Cost Pay Item.** Work for which a description and fixed cost is not set forth in the pay item list. Payment for non-fixed cost pay items will be determined in accordance with Sec 109.4.2, 109.4.3, or 109.4.4. Non-fixed cost pay items will be paid using an Adjustment Factor of 1.000.

### E. Job Order Procedure

**1.0 Draft Job Order.** The engineer will prepare a Draft Job Order (DJO) and submit to the contractor by email. The DJO will be provided as an Excel spreadsheet and will include the basic information listed in Section 1.2. The contractor shall review the DJO and respond by email within 24 hours, as specified herein. If the contractor agrees to all terms, and accepts the Job Order as final, the contractor shall respond with concurrence and proceed with the work under those terms. If the contractor has any proposed changes, the contractor shall present those in the response. The engineer will consider any proposed changes and respond with a Final Job Order, as described in Section 2.0. If additional time is required for the engineer to review the contractor's proposed changes, or if time is needed to hold a Joint Scope Meeting prior to the work, the Notice to Proceed date will be postponed accordingly and revised by the engineer.

**1.1 Joint Scope Meeting.** For complex Job Orders, or when price agreement negotiations are necessary, or for any other reason deemed necessary by the engineer, a joint scope meeting may be required either in person at the job site, or through Microsoft Teams, to plan the work and complete all Job Order terms. Establishment of pricing for any non-fixed cost pay items shall be in accordance with Sec 109.4.2 or 109.4.3. If no agreement to pricing can be made, then the work will proceed with payment for non-fixed cost items under Sec 109.4.4. The contractor's attendance at the joint scope meeting is required and at no additional cost.

**1.2 Draft Job Order Information.** The Draft Job Order will provide the following information:

- (a) Job Order number
- (b) MoDOT Property Damage (PD) No. (when applicable)
- (c) County, route, and location
- (d) Date of issuance
- (e) Proposed Notice to Proceed date (as defined elsewhere in these provisions)
- (f) Required completion date
- (g) Designation if work is restricted to the nighttime period only

- (h) Traffic control plan type
- (i) Additional traffic control devices (if needed)
- (j) Speed limit reduction and normal speed limit (if needed)
- (k) General description of repair
- (l) Estimated repair quantities

**2.0 Final Job Order.** Following any revisions to the DJO, as authorized by the engineer, the terms in the Job Order are considered binding. The final Job Order is a written notice from the engineer to the contractor directing the work to be performed at each work location. A Job Order is considered a contract document as defined in Sec 101.2. A separate Job Order will be issued for each work location, as defined elsewhere in these provisions.

**2.1** The contractor does not have the right to refuse to perform any Job Order or any work identified in a Job Order. If the contractor refuses or fails to perform any Job Order or any work identified in a Job Order, the contractor may be considered in default in accordance with Sec 108.

**2.2** The Commission reserves the right to cancel or reject a Job Order for any reason. The Commission also reserves the right to not issue a Job Order if that is determined to be in the best interests of the Commission. The contractor shall not recover costs arising out of or related to the development of the Job Order including but not limited to the costs to attend the Joint Scope Meeting, review the Detailed Scope of Work, subcontractor costs, and the cost to review the Job Order Proposal with the Commission.

**2.3 Multiple Job Orders.** The engineer may issue multiple Job Orders with the same or overlapping completion periods.

**3.0 Completed Job Orders.** Following completion of the Job Order work, the contractor shall promptly enter the following information into the Excel Job Order form and return the Job Order to the engineer by email:

- (a) Actual date that repairs were completed
- (b) Actual repair materials used to complete the work and any traffic control changes, as authorized by the engineer
- (c) Printed name of the contractor's authorized representative who is certifying that the work is complete and in compliance with the Job Order, Contract, and plans (when applicable)

**3.1** The engineer will review the completed Job Order, make any necessary adjustments to update final quantities, including traffic control, and determine the final payment amount. If any additional time to complete the work is warranted due to the engineer changing priority of Job Order completion, or for any other reason, the engineer will note such time extension in the comments section. Upon acceptance of the work, as described in JSP FINAL INSPECTION AND ACCEPTANCE OF THE WORK, the engineer will serve notice of Acceptance for Maintenance by converting the final completed Job Order to PDF format, digitally signing, and sending a digital copy to the contractor by email. Payment will be made following acceptance. Should any liquidated damages be assessed for failure to complete the work on time, a separate contract adjustment will be made.

F. Term of Contract

**1.0** The term of this contract shall be for the period commencing July 1, 2026 and shall end June 30, 2027.

**2.0** Any work already ordered or in progress when the contract term ends shall be completed in accordance with the provisions, price proposals and timelines established in the issued Job Order(s), or liquidated damages will be assessed against the contractor in accordance with the provisions of this contract.

**3.0** The contract may be extended under the original terms and contract prices for the period commencing July 1, 2027 and shall end June 30, 2028 for a maximum contract term of two (2) years. If, in the sole discretion of the Commission, the Commission desires to extend the contract, the contractor will be given written notification of the extension no later than 5 months after the starting date noted in Section 1.0. The contractor shall provide written notification of acceptance or rejection of the extension of this contract no later than 6 months after the starting date noted in Section 1.0. If the option for extending the contract is exercised by MoDOT, a time adjustment change order will be issued by the Commission to extend the contract to the new term limits. The contractor shall increase the performance contract bond to an amount equal to the original contract amount plus the extended contract amount (i.e., double the original bond amount).

G. Early Notice to Proceed

**1.0 Description.** The Notice to Proceed date is July 1, 2026. All contracts shall be executed and returned to the Commission by or before the end of the day on the business day prior, in order to commence work on the Notice to Proceed date.

**2.0** The contract will be distributed electronically by the Commission for execution through DocuSign® upon award.

**3.0** As part of the contract execution process, the contractor shall complete and deliver the original documents/forms listed below, immediately following award of the contract.

Contract Bond Form (with associated Power of Attorney Form)  
Contractor Acknowledgement Form  
Workers Eligibility Verification Affidavit

**3.1** These documents will be provided to the contractor through Bid Express®/BidX® correspondence immediately following Commission award. A checklist with instructions on how to complete these documents will be provided with said award correspondence. In order to expedite contract execution, contractors are encouraged to follow the instructions on the checklist. Inquiries related to completing the listed documents may be directed to the following:

Rodney Braman  
Phone: (573) 751-9253  
Email: [Rodney.Braman@modot.mo.gov](mailto:Rodney.Braman@modot.mo.gov)

**4.0** The contractor shall deliver the original documents to the address listed below and notify Rodney Braman at the time the documents are delivered.

**5.0** Potential Bidders without a current MoDOT issued DocuSign® access code shall notify Ryan Martin prior to the bid to determine the necessary steps to establish a Contractor specific access code. If another MoDOT District Office location other than the one listed below is more

convenient, please contact Ryan Martin.

CENTRAL OFFICE  
 Ryan Martin  
 Bidding and Contract Services Engineer  
 105 West Capitol  
 Jefferson City, MO 65102-0270  
 Phone: (573) 526-2923  
 Email: [Ryan.Martin@modot.mo.gov](mailto:Ryan.Martin@modot.mo.gov)

H. Fixed Unit Price List

**1.0 Description.** A fixed unit price list containing unit prices associated with signal detection repair is listed below. Fixed unit prices are for complete and in-place construction and include all labor, equipment and material required to complete the construction task. All labor, material, equipment and work required by a specification shall be considered part of the fixed unit price, unless otherwise stated elsewhere in this contract. Pay limits will be defined in the approved Job Order.

**2.0 Fixed Unit Price List for Signal Detection Job Orders.**

<b>MISC. TRAFFIC CONTROL ITEMS</b>			
<b>Item Number</b>	<b>Description</b>	<b>Unit</b>	<b>Fixed Unit Price</b>
6169902	MISC. ADDITIONAL TRUCK MOUNTED ATTENUATOR (TMA)	Each	\$750.00
6169904	MISC. ADDITIONAL CONSTRUCTION SIGNS	SF	\$3.00
6169902	MISC. ADDITIONAL CHANNELIZER (TRIMLINE)	Each	\$9.00
6169902	MISC. ADDITIONAL DIRECTIONAL INDICATOR BARRICADE	Each	\$18.75
6169902	MISC. ADDITIONAL FLASHING ARROW PANEL	Each	\$390.00
6169902	MISC. ADDITIONAL CMS (CONTRACTOR FURNISHED/RETAINED)	Each	\$1,200.00
6169902	MISC. CATEGORY 1 TRAFFIC CONTROL	Each	\$800.00
6169902	MISC. CATEGORY 2 TRAFFIC CONTROL	Each	\$800.00
6169902	MISC. CATEGORY 3 TRAFFIC CONTROL	Each	\$800.00
6169902	MISC. CATEGORY 4 TRAFFIC CONTROL	Each	\$800.00

<b>SIGNAL LOOP ITEMS</b>			
<b>Item Number</b>	<b>Description</b>	<b>Unit</b>	<b>Fixed Unit Price</b>
9028500	CABLE, LOOP DETECTOR, IN DUCT	LF	\$9.00
9028510	CABLE, LOOP DETECTOR, LEAD IN	LF	\$2.50
9109903	MISC. CONDUIT REPAIR	LF	\$20.00
9029902	MISC. PULL BOX, PREFORMED CLASS 1	Each	\$950.00

9029902	MISC. 6X30 LOOP DETECTOR	Each	\$750.00
9029902	MISC. 6X15 LOOP DETECTOR	Each	\$450.00
9029902	MISC. 6X6 LOOP DETECTOR	Each	\$225.00
9109902	MISC. WIRELESS IN-PAVEMENT VEHICLE DETECTION	Each	\$700.00

I. Adjustment Factor

**1.0 Description.** The Adjustment Factor includes business and construction related costs as defined in this specification. It is the responsibility of the contractor to verify the unit prices provided in this contract and to modify their Adjustment Factor accordingly.

**1.1 Business Costs.** Business related costs consist of profit, overhead costs, subcontractor profit and overhead, taxes, finance costs, and other costs including but not limited to;

- (a) insurance, bonds and indemnification
- (b) project meetings, training, management and supervision
- (c) project office staff and equipment
- (d) employee or subcontractor wage rates that exceed prevailing wages
- (e) fringe benefits, payroll taxes, worker's compensation, insurance costs and any other payment mandated by law in connection with labor that exceeds the labor rate allowances
- (f) business risks such as the risk of low than expected volumes of work, smaller than anticipated Job Orders, poor subcontractor performance, and inflation or material cost fluctuations

**1.2 Construction Costs.** Construction related costs include but are not limited to;

- (a) personnel safety equipment
- (b) security requirements
- (c) excess material waste
- (d) daily and final clean-up
- (e) costs resulting from inadequate supply of materials, fuel, electricity, or skilled labor
- (f) costs resulting from productivity loss
- (g) working in extreme and adverse weather conditions
- (h) any other discreet items of work required to complete a particular Job Order

**1.3 General Costs.** The above lists are not exhaustive and are intended to provide general examples of cost items to be included in the contractor's Adjustment Factor as defined in the contract.

**2.0 Adjustment Factor.** The Adjustment Factor may include daytime, nighttime, and/or weekend hours as identified by the engineer.

**2.1 Daytime hours** are defined as ½ hour after sunrise to ½ hour before sunset. If the contractor works outside of the defined daytime hours, the contractor shall provide lighting equipment at no additional cost to the Commission.

**3.0 Nighttime Work.** If the engineer determines traffic volumes are such that work cannot be performed during the daytime, without significant traffic impacts, the Job Order will specify nighttime repair operations.

**4.0 Weekend Work.** If the engineer determines traffic volumes are such that work cannot be performed Monday through Friday without significant traffic impacts, the Job Order will specify weekend repair operations.

J. Bidding the Adjustment Factors

**1.0** The bidder shall complete the bid form by writing in the Adjustment Factor. The Adjustment Factor shall be specified to three decimal places. Note that these are contract pay items for contractor payment, not work items.

**EXAMPLE:** The Adjustment Factor shall be entered as the following example illustrates.

1 . 1 9 8

OR

0 . 9 8 7

Note: The Adjustment Factors used are for example purposes only and are not an indication of factors being bid by the contractor.

K. Contract Award

**1.0** The Commission will evaluate the bids with the intent of awarding the contract to the lowest responsible bidder. The budget for this project will have a minimum budget of \$0 dollars and an anticipated maximum of \$41,000 dollars. If the contract is extended in accordance with the TERM OF CONTRACT JSP, the anticipated budget will be two times the maximum amount.

**2.0** The lowest bid will be determined by multiplying the Adjustment Factor by the anticipated budget for the adjustment factor. For purposes of bidding this contract, the estimated percentage of work performed during Daytime hours is 90 percent and Nighttime hours is 10 percent. The dollar quantities provided in the bid form are anticipated budgets and are not intended to represent the actual value of work that will be assigned.

L. Bonds

**1.0** The amount of the Bid Bond shall be 5 percent of the anticipated budget for this project.

**2.0** The amount of the Performance Bond shall be 100 percent of the anticipated budget for this project.

M. Notice To Proceed

**Delete Sec 108.2 and substitute the following:**

**108.2 Notice to Proceed.** For each Job Order, the engineer will include a notice to proceed, which will stipulate the date the contractor is expected to begin work. The notice to proceed date will normally be 14 calendar days after the Job Order is issued.

N. Contract Time for Completion of Job Order

**1.0 Contract Time for Completion of Job Order.** The time for the completion of the Job Order will be specified by calendar days. Time is an essential element of the contract, and it is therefore important that the work be pursued vigorously to completion.

**2.0 Completion By Calendar Days.** The contractor shall complete all work described in each Job Order within seven (7) calendar days of the notice to proceed date.

**3.0 Contract Time Extension for Change in the Work.** If a change in the work on a Job Order is ordered by the engineer, the contractor will be allowed an extension of contract time when it can be established that the additional work required more time. In such cases, the actual time required, as determined by the engineer, will be allowed.

**4.0 Contract Time Extension for Traffic Control Restrictions.** If a traffic control time restriction ordered by the engineer changes the contractor's work schedule on a Job Order, the contractor will be allowed an extension of contract time when it can be established that the restriction prevented the contractor from performing the work within the contract time. In such cases, the actual restriction time, as determined by the engineer, will be allowed.

**5.0 Contract Time Extension for Unsuitable Weather.** The contractor will not be entitled to any extension of contract time because of unsuitable weather conditions unless authorized in writing by the engineer as an excusable, non-compensable delay under Sec 108.14.1.

O. Completing the Work

**1.0** The contractor shall perform any task in the fixed unit price list for the fixed unit price multiplied by the quantity, multiplied by the Adjustment Factor. The contractor shall perform the Detailed Scope of Work for the Job Order Price as calculated in accordance with the procedure for developing Job Orders set forth herein.

**2.0** When installed quantities differ from the estimated quantities in the issued Job Order, the as built quantities in the final Job Order will address the quantity variation(s) for final payment. When quantities are not specified in the Detailed Scope of Work, the Job Order Price will be deemed to be lump sum for such work.

**3.0** The contractor shall employ and supply a sufficient force of workers, materials and equipment and shall progress the work with such diligence so as to ensure completion of the Detailed Scope of Work within the Job Order completion time or within such extended time for completion as may be granted by the engineer.

**4.0** In order to assist in reviewing the Job Order Price Proposal, the contractor shall as part of the Job Order Proposal prepare and submit to the engineer for approval, a progress schedule showing the order in which the contractor proposes to carry on the work, the date of which it will start the major items of work (including but not limited to excavation, drainage, paving, structures,

mobilization, soil erosion and sediment control, etc.) and the critical features (including procurement of materials, plant and equipment) and the contemplated dates for completing the same.

P. Final Inspection and Acceptance of the Work

**Delete Sec 105.10.7 through 105.10.7.2 and substitute the following:**

**105.10.7 Final Inspection.** Upon completion of the required work for each Job Order, the contractor shall promptly notify the engineer as specified per Section 3.0 of JSP JOB ORDER PROCEDURE. Final inspections by the engineer may be random and may not be performed for all Job Orders. At the discretion of the engineer, in lieu of a Final Inspection, the engineer may declare Acceptance for Maintenance based on the certification of work by the contractor's authorized representative. If the engineer determines all work required by the contract has been satisfactorily completed, or the engineer accepts the contractor's certification, the engineer will make the acceptance for maintenance and notify the contractor in writing as specified per Section 3.1 of JSP JOB ORDER PROCEDURE. Final Acceptance of all work in the Contract will occur as specified in Sec 105.15 and within 30 days of receipt of final documentation from the contractor.

**105.10.7.1** Work determined to be unsatisfactory by the engineer, even if discovered following Acceptance for Maintenance, shall be corrected to acceptable standards at the contractor's sole cost. All items that are unsatisfactory shall be corrected within the time specified for each Job Order, or as otherwise allowed by the engineer. Any time extension given will be considered a non-compensable delay. Upon completion of the corrections, the contractor shall notify the engineer for a re-inspection.

**105.10.7.2** Following a Job Order final inspection and Acceptance for Maintenance, the contractor, subcontractors, and suppliers are relieved of any new or additional liability to third parties for personal injury, death, or property damages which may be alleged to result from the performance of the work required by that Job Order, unless additional work on the right of way is required by the engineer.

**105.10.7.3** Nothing in this section shall be deemed to excuse the contractor of liability or responsibility for any personal injury, death, or property damages which may arise from acts or the failure to act prior to the final inspection of the work required by the Job Order.

Q. Liquidated Damages for Failure or Delay in Starting or Completing Work on Time

**1.0 Description.** If the contractor, or in case of default, the surety fails to begin or complete the work required in a Job Order within the time specified, or within such extra time as may be allowed by the contract, the contractor shall be charged with liquidated damages in the amount of **\$250 per day** for each day or partial day that the Job Order remains incomplete in excess of the specified time. The amount specified is agreed upon, not as a penalty, but as liquidated damages for loss to the Commission and the public. This amount will be deducted from any amount due under the contract. These damages will apply to each individual Job Order for which the contractor fails to complete the work on time. The contractor and surety shall be liable for all liquidated damages. Permitting the contractor to continue the work after the expiration of the specified time or any extension of time will not constitute a waiver by the Commission of any

contractual rights. It shall be the responsibility of the engineer to determine the quantity of excess time.

**2.0** Sec 108.8.1 through 108.8.1.3 shall not apply to this contract.

**3.0** These liquidated damages will not be charged for Saturdays, Sundays, national, and state holidays established by law.

R. Liquidated Damages for Winter Months JSP-04-17A

Delete Sec 108.8.1.3 (a)

Liquidated damages for failure to complete the work on time shall not be waived from December 15 to March 15, both dates inclusive.

S. Work Zone Traffic Management

**1.0 Description.** The contractor may be responsible for the work zone traffic management as mutually agreed upon by the contractor and engineer for each individual Job Order. Work zone traffic management shall be in accordance with applicable portions of Division 100 and Division 600 of the Standard Specifications, and specifically as follows.

**2.0 Traffic Management Schedule.**

**2.1** The contractor shall notify the engineer at least 48 hours prior to performing any work at each work site. The notification shall include all information needed to identify traffic impacts such as work location, anticipated work hours, traffic control plan type, required lane or shoulder closures, anticipated duration of the work, etc. The contractor shall designate a contact person who is available for the duration of the work to resolve any traffic impact issues resulting from the contractor's operations. The engineer will make appropriate notification to the public, MoDOT customer service, and MoDOT work crews of the contractor's operations. The contractor shall notify the engineer as soon as practical any postponement due to weather, material, or other circumstances and shall notify the engineer when the work has been rescheduled.

**2.2** In order to ensure minimal traffic interference, the contractor shall schedule lane closures for the absolute minimum amount of time required to complete the work. Lanes shall not be closed until material is available for continuous construction and the contractor is prepared to diligently pursue the work until the closed lane is reopened to traffic.

**3.0 Maintenance of Traffic.**

**3.1** Traffic shall be maintained through the work zone using the existing pavement in accordance with the traffic control plans. No detours or lane shifts onto shoulders will be allowed unless otherwise approved by the engineer.

**3.2** Provisions shall be made to allow the movement of emergency vehicles through the limits of construction at all times.

**3.3** During non-working hours the contractor shall have all lanes of traffic open for all routes, ramps, and side roads. All channelizers and other traffic control devices shall be removed from the roadway during non-working hours unless otherwise approved by the engineer.

**4.0 Traffic Congestion and Delay.** The contractor shall, upon approval of the engineer, take proactive measures to reduce traffic congestion in the work zone. The contractor shall be responsible for maintaining the existing traffic flow through the job site during the work. If disruption of the traffic flow occurs and traffic is backed up in queues of 15-minute delays or longer, then the contractor shall review the construction operations which contributed directly to disruption of the traffic flow and make adjustments to the operations to prevent queues from occurring again.

**5.0 Traffic Safety.**

**5.1** Where traffic queues routinely extend to within 1000 feet (300 m) of the ROAD WORK AHEAD, or similar, sign on a divided highway or to within 500 feet (150 m) of the ROAD WORK AHEAD, or similar, sign on an undivided highway, the contractor shall extend the advance warning area, as approved by the engineer.

**5.2** When a traffic queue extends to within 1000 feet (300 m) of the ROAD WORK AHEAD, or similar, sign on a divided highway or to within 500 feet (150 m) of the ROAD WORK AHEAD, or similar, sign on an undivided highway due to non-recurring congestion, the contractor shall deploy a means of providing advance warning of the traffic congestion, as approved by the engineer. The warning location shall be no less than 1000 feet (300 m) and no more than 0.5 miles (0.8 km) in advance of the end of the traffic queue on divided highways and no less than 500 feet (150 m) and no more than 0.5 miles (0.8 km) in advance of the end of the traffic queue on undivided highways.

**6.0 Work Hour Restrictions.**

**6.1** All work shall be scheduled to avoid major sporting events, conventions, concerts, and similar special events as specified by the engineer. During the term of this contract, there are five major holiday periods: New Year’s Day, Memorial Day, Labor Day, Thanksgiving, and Christmas. All lanes shall be scheduled to be open to traffic during these holiday periods, from 12:00 noon on the last working day preceding the holiday until 6:00 a.m. on the first working day subsequent to the holiday, unless otherwise designated by the engineer.

**6.1.1 Independence Day.** The lane restrictions specified in Section 6.1 shall also apply to Independence Day, except that the restricted periods shall be as follows:

<b>When Independence Day falls on:</b>	<b>The Holiday is Observed on:</b>	<b>Halt Lane Closures beginning at:</b>	<b>Allow Lane Closures to resume at:</b>
Sunday	Monday	Noon on Friday	6:00 a.m. on Tuesday
Monday	Monday	Noon on Friday	6:00 a.m. on Tuesday
Tuesday	Tuesday	Noon on Monday	6:00 a.m. on Wednesday
Wednesday	Wednesday	Noon on Tuesday	6:00 a.m. on Thursday
Thursday	Thursday	Noon on Wednesday	6:00 a.m. on Friday
Friday	Friday	Noon on Thursday	6:00 a.m. on Monday
Saturday	Friday	Noon on Thursday	6:00 a.m. on Monday

**6.2** During non-working hours the contractor shall have all lanes of traffic open for all routes, ramps, and side roads. Working hours for holidays shall be determined by the engineer.

**6.3** Due to the wide variance in traffic volumes throughout the contract area, it is not possible to give specific work hours for the term of the contract. Each Job Order will specify work hours or work hour restrictions based on the repair location, this may include peak hour restrictions. The following table provides general guidance as to the most restrictive schedule for when work on or adjacent to the roadway may be allowed.

<u>Traffic Control Plan Type</u>	<u>Work Hours (Monday thru Friday)</u>
Single Lane Closure	7:30 p.m. to 6:00 a.m.
Single Lane Closure	9:00 a.m. to 3:00 p.m.

Specific work hours for an individual work location shall be according to the mutually agreed upon schedule in the Job Order.

**7.0 Work Within Another Work Zone.** The engineer may determine it is in the best interest of the Commission and the traveling public to have the work designated in the Job Order performed within another contractor's work zone or within a MoDOT work zone. If the work is designated to be performed within another work zone, the contractor shall coordinate and perform the work in accordance with Sec 105.6.

**8.0 Ramp Closure.** Ramp closures shall be minimized and shall be approved by the engineer a minimum of five days prior to the closure. Only one ramp closure will be permitted in a particular interchange or complex at one time. Work on acceleration / deceleration lanes will not require ramp closure unless approved by the engineer. Detour traffic handling details will be as specified by the engineer. Major ramp closures may require detour signing with other ramp closures only requiring use of changeable message signs (CMS) for detours. If the engineer determines detour signing is required, all necessary detour trailblazing placards will be furnished, installed, and covered by others. The contractor shall furnish all CMS required by the engineer. The contractor shall be responsible for uncovering and covering the trailblazing placards as work progresses.

**9.0 Changeable Message Signs.** The contractor shall provide changeable message signs notifying motorists of future traffic disruption and possible traffic slowdown one week before traffic is shifted to a detour. The changeable message sign installation shall be placed at a location as approved or directed by the engineer.

**10.0 Basis of Payment.** All items necessary to complete the traffic control will be paid for at the fixed unit price multiplied by the Adjustment Factor, as mutually agreed upon in the Job Order.

T. Traffic Control Plan Types

**1.0 Description.** The following traffic control plan types shall be used for the Job Orders issued for this contract.

**2.0 Plan Types.**

**2.1 Category 1 Traffic Control.** Category 1 Traffic Control provides for the closure of a left turn lane.

**2.1.1** "Category 1 Traffic Control" shall include installing and removing the following set of traffic control devices as shown on the plans:

1 each	Road Work Ahead
1 each	Lane Ends
1 each	Shared Through Left Lane Control Sign
1 each	Left Lane Sign
1 each	Work Zone Plaque
1 each	Reduced Speed Ahead Sign
1 each	Speed Limit Sign XX MPH
26 each	Channelizer (Trim Line)
1 each	Truck Mounted Attenuator

**2.2 Category 2 Traffic Control.** Category 2 Traffic Control provides for the closure of an inside through lane.

**2.2.1** "Category 2 Traffic Control", shall include installing and removing the following set of traffic control devices as shown on the plans:

4 each	Road Work Ahead
1 each	Left (Right) Lane Closed Ahead
1 each	Lane Ends
1 each	Double Down Arrow (Symbol)
2 each	Left Turn Must Turn Left Sign
1 each	Work Zone Plaque
1 each	Speed Limit Sign XX MPH
1 each	Speed Limit XX MPH (Normal Speed)
1 each	Truck Mounted Attenuator
2 each	Flashing Arrow Panel
26 each	Channelizer (Trim Line)
14 each	Directional Indicator Barricade

**2.3 Category 3 Traffic Control.** Category 3 Traffic Control provides for the closure of an outside through lane.

**2.3.1** "Category 3 Traffic Control" shall include installing and removing the following set of traffic control devices as shown on the plans:

4 each	Road Work Ahead
1 each	Right (Left) Lane Closed Ahead
1 each	Lane Ends
1 each	Work Zone Plaque
1 each	Reduced Speed Limit Sign
1 each	Truck Mounted Attenuator
1 each	Flashing Arrow Panel
1 each	Type III Baricade
26 each	Channelizer (Trim Line)
14 each	Directional Indicator Barricade

**2.4 Category 4 Traffic Control.** Category 4 Traffic Control provides for a single lane closure with flaggers.

**2.4.1** "Category 4 Traffic Control" shall include installing and removing the following set of traffic control devices as shown on the plans:

2 each	Road Work Ahead
2 each	One Lane Road Ahead
2 each	Flagger (Symbol)
2 each	Flagger
2 each	Work Zone Plaque
2 each	Speed Limit XX MPH
2 each	Speed Limit XX MPH (Normal Speed)
1 each	Truck Mounted Attenuator
26 each	Channelizer (Trim Line)
5 each	Directional Indicator Barricade

**3.0 Additional Traffic Control Devices.** The engineer may determine that signs, channelizers, and Type III Movable Barricades in addition to those devices shown in the plans are necessary to safely accommodate traffic. These additional devices may be needed for merging ramp traffic, detours, multiple bridges, or other special cases to supplement the specified lane closure devices. The contract provides a fixed cost for any additional traffic control items.

**4.0 Flaggers.** Flaggers may be required when working at intersecting streets or ramps as directed by the engineer. No direct payment will be made for flaggers.

**5.0 Method of Measurement and Basis of Payment.**

**5.1** Measurement of lane closures will be made per Job Order. Payment will be made for a maximum of one (1) of each lane closure type at a specific work location, within the maximum 2 mile range, per Job Order. Payment will not be made for any lane closure that does not result in productive repair work as determined by the engineer. Additional lane closures may be installed by the contractor at the contractor's expense. The accepted quantity of each lane closure will be paid for at the fixed unit price for the following multiplied by the Adjustment Factor, as mutually agreed upon in the Job Order:

Item 616-99.02	Misc. Category 1 Traffic Control	Each
Item 616-99.02	Misc. Category 2 Traffic Control	Each
Item 616-99.02	Misc. Category 3 Traffic Control	Each
Item 616-99.02	Misc. Category 4 Traffic Control	Each

**5.2** Measurement of additional traffic control devices will be made per Job Order. Payment for the devices shall include furnishing, installing, and removing the additional devices at a specific work site. No payment will be made for additional devices used by the contractor without prior approval of the engineer. The accepted quantity of additional traffic control devices will be paid for in accordance with the fixed unit price list, multiplied by the Adjustment Factor, as mutually agreed upon in the Job Order.

U. Pavement Marking

**1.0 Description.** The contractor will not be responsible for placing and maintaining pavement marking on pavement undergoing repair operations unless mutually agreed upon in the Job Order.

V. Delay Provisions

**1.0** If the contractor is delayed in the commencement, prosecution or completion of the work by any act of the Commission, or by any cause beyond the contractor's control, then the contractor will be entitled to an extension of time. If the contractor is delayed or prevented from working on a particular date as a result of a delay, error or omission of the Commission, and the contractor incurs unavoidable labor costs as a direct result thereof because the contractor did not have enough time to cancel or divert its labor force, then the contractor will be reimbursed for such costs. For each worker so paid, the contractor will be reimbursed the amount paid the worker. Also, the contractor will be reimbursed for construction tasks required as a direct result of such delay, error or omission, such as closing off areas of work. No other costs shall be paid as a result of a delay or late cancellation.

**1.1** If the contractor fails to provide 5-days notification prior to start of work for all Job Orders, this provision will not apply.

W. Eliminated Materials

**1.0** Materials required by the Detailed Scope of Work and not incorporated into the work due to changes caused by field conditions or revisions to the design by the Commission after the material was ordered or purchased will be reimbursed at the material portion of the Pre-priced Task, or if there is no Pre-priced Task, then its material cost minus salvage value, or the material cost plus delivery costs.

X. Emergency Provisions and Incident Management

**1.0** The contractor shall have communication equipment on the construction site or immediate access to other communication systems to request assistance from the police or other emergency agencies for incident management. In case of traffic accidents or the need for police to direct or restore traffic flow through the job site, the contractor shall notify police or other emergency agencies immediately as needed. The engineer shall also be notified when the contractor requests emergency assistance.

**2.0** In addition to the 911 emergency telephone number for ambulance, fire or police services, the following agencies may also be notified for accident or emergency situations within the project limits.

Missouri Highway Patrol	(636) 300-2800
MoDOT District SL Customer Service (24 hr)	(314) 275-1500
MoDOT Incident Response (24 hr)	(888) 275-6636
St. Charles County Police	(636) 949-3000
St. Louis County Police Department	(636) 529-8210
St. Louis City Police Department	(314) 231-1212

Franklin County Sheriff	(636) 583-2560
Jefferson County Sheriff	(636) 797-5000

**2.1** This list is not all inclusive. Notification of the need for wrecker or tow truck services will remain the responsibility of the appropriate police agency.

**2.2** The contractor shall notify enforcement and emergency agencies before the start of construction to request their cooperation and to provide coordination of services when emergencies arise during the construction at the project site. When the contractor completes this notification with enforcement and emergency agencies, a report shall be furnished to the engineer on the status of incident management.

**3.0** No direct payment will be made to the contractor to recover the cost of the communication equipment, labor, materials or time required to fulfill the above provisions.

Y. Utilities

**1.0** It is the inherent risk of the work under this contract that the contractor may encounter utilities above and/or below the ground or in the vicinity of any given Job Order which may interfere with their operations. The contractor expressly acknowledges and assumes this risk even though the nature and extent are unknown to both the contractor and the Commission at the time of bidding and award of the contract. The effect in cost or time of the presence of utilities above, below or in the vicinity of the contractor's work under this contract shall not be compensable.

Z. Damage to Existing Pavement

**1.0 Description.** This work shall consist of repairing any damage to existing pavement, ramps and/or shoulders caused by contractor operations. This shall include damage caused either directly or indirectly by contractor operations, including but not be limited to, damage caused by the traffic during contractor operations.

**2.0 Construction Requirements.** Any cracking, gouging, or other damage to the existing pavement, ramps and/or shoulders, side roads, or entrances from general construction shall be repaired within twenty four (24) hours of the time of damage at the contractor's expense. Repair of the damaged pavement, shoulders, side roads, or entrances shall be as determined by the engineer.

**3.0 Method of Measurement.** No measurement of damaged pavement, ramps or shoulder areas as described above shall be made.

**4.0 Basis of Payment.** No payment will be made for repairs to existing pavement, ramps and/or shoulders damaged by contractor operations.

AA. Advance Notice for Marking Induction Loop Locations

**1.0** The contractor shall give the engineer at least two working days advance notice before cutting induction loops or placing wireless in-pavement detectors. The engineer will be responsible for marking the induction loop and wireless in-pavement detector locations on the pavement during this timeframe.

**2.0 Basis of Payment** There will be no direct payment for compliance with this provision.

BB. 6' x 30' Loop Detector

**1.0 Basis of Payment.** Payment for installation of 6' x 30' induction loop detectors will be made at the fixed unit price for:

Item 902-99.02	Misc. 6 x 30 Loop Detector	Each
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**1.1** No direct payment will be made for abandonment of existing 6 x 30 induction loops.

CC. 6' x 15' Loop Detector

**1.0 Basis of Payment.** Payment for installation of 6 x 15 induction loop detectors will be made at the fixed unit price for:

Item 902-99.02	Misc. 6 x 15 Loop Detector	Each
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**1.1** No direct payment will be made for abandonment of existing 6 x 15 induction loops.

DD. 6' x 6' Loop Detector

**1.0 Basis of Payment.** Payment for installation of 6 x 6 induction loop detectors will be made at the fixed unit price for:

Item 902-99.02	Misc. 6 x 6 Loop Detector	Each
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**1.1** No direct payment will be made for abandonment of existing 6 x 6 induction loops.

EE. Cable, Loop Detector, Induction

**1.0** Induction loop detector cable and conduit shall be single-conductor No. 14 AWG wire, with Type XHHW insulation, marked as such, rated at 600 volts. The cable shall be in accordance with IMSA Specification No. 51-7. The transition from the loop to the shielded lead-in cable shall occur at the designated pull box.

**1.1 Certification.** All cables and conductors shall be accompanied by certification from the supplier indicating: (1) the supplier is familiar with the requirements of these specifications and,

(2) cable furnished was from a lot manufactured by (manufacturer's name) whose test results are in accordance with these specifications.

**1.2 Basis of Payment.** Payment for installation of Loop Induction will be made at the fixed unit price for:

Item 902-85.00	Misc. Cable, Loop Detector, In Duct	LF
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FF. Cable, Loop Detector, Lead-In

**1.0** Lead-in cable and conduit used between the loop detector and the controller shall be two-conductor, twisted, shielded No. 14 AWG wire rated at 600 volts. The cable shall be in accordance with IMSA Specification No. 50-2. The transition from the loop to the shielded lead-in cable shall occur at the designated pull box.

**1.1 Certification.** All cables and conductors shall be accompanied by certification from the supplier indicating: (1) the supplier is familiar with the requirements of these specifications and, (2) cable furnished was from a lot manufactured by (manufacturer's name) whose test results are in accordance with these specifications.

**1.2 Basis of Payment.** Payment for installation of Loop Lead-In will be made at the fixed unit price for:

Item 902-85.10	Misc. Cable, Loop Detector, Lead-In	LF
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GG. Repair Conduit

**1.0** Description. This work shall consist of repairing conduit, including 1-inch loop detector conduit and 2-inch conduit where applicable, as approved by the Engineer. This work facilitates installation of new cable or loop detector lead-in wiring in existing conduit systems. The extent and locations of this work are unknown and will be determined during project construction.

**2.0 Construction Methods.**

**2.1** If conduit, including loop detector conduit or associated lead-in pathways, is damaged such that new cable or loop detector lead-in wire cannot be pulled, the Engineer will determine whether to excavate and repair the damaged section or replace the entire run of conduit. For advanced loop systems, any crushed, obstructed, or water-infiltrated conduit shall be replaced as directed.

**2.2** The contractor shall splice existing conduit, including 1-inch loop detector conduit and 2-inch lead-in conduit, as described in the plans or as directed by the Engineer. Splices shall be weather-tight and constructed using in-kind materials and approved methods to maintain system integrity for signal and loop detector operations.

**2.3** The contractor shall backfill-excavated areas with clean fill free of large stones or rubble. The finished grade shall match the surrounding grade to maintain existing drainage patterns and the work area will be restored to match the surrounding area.

**2.4** The Contractor shall submit in writing his anticipated method of splicing the conduit to the Engineer for approval prior to performing the work.

**3.0 Measurement and Payment.** Measurement and payment for work covered by this specification includes equipment, tools, materials, necessary to clean and splice existing conduit sufficient for pulling new cable. Payment will be made as follows:

Item No.	Type	Description
910-99.03	Linear Feet	Misc. Conduit Repair

**3.1** If the entire run of conduit needs replacement, new conduit will be paid under the above pay item, Misc. Conduit Repair. Selection of conduit size shall be based on system needs, including advanced loop detector requirements and lead-in wire capacity.

HH. Remove and Install Wireless In-Pavement Vehicle Detection

**1.0 Description.** Remove, provide, install, and test wireless in-pavement detectors for signal detection on approaching intersection legs at the locations specified by the engineer.

**2.0 Materials.**

**2.1 Wireless In-Pavement Detector.** Provide a SENSYS Networks VSN240-F Wireless Sensor, or equivalent as accepted by the engineer, with the following features:

- Transmits wireless vehicle detection and other output to an access point or repeater.
- Detects the presence of vehicles.
- Designed for installation in pavement.
- Battery power with expected battery life of 10 years.
- Firmware can be upgraded through wireless connection.
- Recommended maximum transmission range of 150 feet when receiver mounted at 24 feet above the pavement.
- NEMA 6P rated.
- Operating temperature range -40 degrees to 85 degrees C.

**3.0 Construction Requirements.**

**3.1** Before construction begins for the devices, the contractor shall present to the engineer certification from the manufacturer for the removal and installation of the devices in this Section. If not already certified, the contractor shall arrange with the engineer two two-day training sessions to include both contractor and Commission personnel at a location provided by the Commission. If already certified, the contractor shall arrange with the engineer this same training after installation is completed. No more than 14 attendees shall be present at any training session, and the engineer will approve or deny the attendees.

**3.2** The failed sensors shall be removed from the pavement according to the manufacturer's specifications. The pavement holes and surrounding disturbed areas shall be filled with an appropriate material as approved by the engineer.

**3.3** The contractor shall provide and install detector units in the pavement at locations as directed by the engineer and following manufacturer recommended procedures for installation. The detector units shall not extend above the top of pavement.

3.4 If requested by the engineer, a factory certified representative from the manufacturer shall be available for on-site assistance for a minimum of one day during installation.

**4.0 Acceptance Testing.**

4.1 The contractor shall develop a proposed test procedure for the installed in-pavement detectors and submit it to the engineer for approval. It must include visual verification of vehicle detections being received at the signal cabinet. Each detector shall be tested separately. Revise the proposed test procedure until it is acceptable to the engineer.

4.2 The contractor shall confirm to the satisfaction of the engineer that each detector's live status is viewable through the Commission's communication network before acceptance.

4.3 The contractor shall provide all equipment and personnel needed to safely conduct the tests. Arrange for the engineer's representative to witness the tests. Give the engineer a report documenting the result of the tests.

**5.0 Measurement and Payment.** Measurement and payment for items covered by this specification include the training, documentation and acceptance testing, in addition to all materials and equipment necessary to restore the signal detection system to be fully operational. No direct pay for any epoxy required by the manufacturer to install the detector.

Item No.	Type	Description
910-99.02	Each	Misc. Remove and Install Wireless In-Pavement Detector

II. Pull Box, Preformed Class 1, Remove and Replace

**1.0 Follow Missouri Standard Specifications for Highway Construction.**

JJ. Mobilization

**Delete Sec 618.2 and substitute the following:**

**618.2** No direct payment will be made for mobilization. All costs for mobilization shall be considered included in the cost of the individual contract pay items included in the contract.

KK. Work Plan and Schedule for Accomplishing Work

**Delete Sec 108.4 through 108.4.4 and substitute the following:**

**108.4 Work Plan and Schedule.** Prior to or at the preconstruction conference, the contractor shall provide a proposed work plan and typical schedule for accomplishing work. The work plan shall include a written list of equipment and personnel that the contractor intends to use in executing the work.

**108.4.1** The work plan will be reviewed by the engineer to determine in general if adequate personnel and equipment appear to be available to complete the work within the required number of calendar days. If the engineer determines the work plan is inadequate, the engineer and

contractor shall meet for a joint review of the plan to correct and adjust the plan and schedule as necessary. A revised work plan and schedule shall be provided by the contractor prior to commencing the work.

**108.4.2** If multiple Job Orders are issued with overlapping completion periods, the priority of the work will be jointly determined by the engineer and the contractor, with final approval of the work plan by the engineer. The work schedule and work priorities will be determined by the needs of the Commission and not the contractor's convenience of work location.

**108.4.3** No direct payment will be made for furnishing the work plan or revisions.

**108.4.4** The contractor shall determine the most feasible work plan and schedule consistent with the requirements of the contract. The engineer's approval of contractor's work plan is not intended to be acknowledgment or representation that it is reasonable or will accomplish the work within a particular time or at a particular cost.

LL. Supplemental Revisions JSP-18-01KK

- Compliance with [2 CFR 200.216 – Prohibition on Certain Telecommunications and Video Surveillance Services or Equipment](#).

The Missouri Highways and Transportation Commission shall not enter into a contract (or extend or renew a contract) using federal funds to procure or obtain equipment, services, or systems that uses covered telecommunications equipment or services as substantial or as critical technology as part of any system where the video surveillance and telecommunications equipment was produced by Huawei Technologies Company, ZTE Corporation, Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities).

- Stormwater Compliance Requirements

**1.0 Description.** This provision requires the contractor to provide a Water Pollution Control Manager (WPCM) for any project that includes land disturbance on the project site and the total area of land disturbance, both on the project site, and all Off-site support areas, is one (1) acre or more. Regardless of the area of Off-site disturbance, if no land disturbance occurs on the project site, these provisions do not apply. When a WPCM is required, all sections within this provision shall be applicable, including assessment of specified Liquidated Damages for failure to correct Stormwater Deficiencies, as specified herein. This provision is in addition to any other stormwater, environmental, and land disturbance requirements specified elsewhere in the contract.

**1.1 Definitions.** The project site is defined as all areas designated on the plans, including temporary and permanent easements. The project site is equivalent to the “permitted site”, as defined in MoDOT’s State Operating Permit. An Off-site area is defined as any location off the project site the contractor utilizes for a dedicated project support function, such as, but not limited to, staging area, plant site, borrow area, or waste area.

**1.2 Reporting of Off-Site Land Disturbance.** If the project includes any planned land disturbance on the project site, prior to the start of work, the contractor shall submit a written report to the engineer that discloses all Off-site support areas where land disturbance is planned,

the total acreage of anticipated land disturbance on those sites, and the land disturbance permit number(s). Upon request by the engineer, the contractor shall submit a copy of its land disturbance permit(s) for Off-site locations. Based on the total acreage of land disturbance, both on and Off-site, the engineer shall determine if these Stormwater Compliance Requirements shall apply. The Contractor shall immediately report any changes to the planned area of Off-site land disturbance. The Contractor is responsible for obtaining its own separate land disturbance permit for Off-site areas.

**2.0 Water Pollution Control Manager (WPCM).** The Contractor shall designate a competent person to serve as the Water Pollution Control Manager (WPCM) for projects meeting the description in Section 1.0. The Contractor shall ensure the WPCM completes all duties listed in Section 2.1.

**2.1 Duties of the WPCM:**

- (a) Be familiar with the stormwater requirements including the current MoDOT State Operating Permit for construction stormwater discharges/land disturbance activities; MoDOT's statewide Stormwater Pollution Prevention Plan (SWPPP); the Corps of Engineers Section 404 Permit, when applicable; the project specific SWPPP, the Project's Erosion & Sediment Control Plan; all applicable special provisions, specifications, and standard drawings; and this provision;
- (b) Successfully complete the MoDOT Stormwater Training Course within the last 4 years. The MoDOT Stormwater Training is a free online course available at MoDOT.org;
- (c) Attend the Pre-Activity Meeting for Grading and Land Disturbance and all subsequent Weekly Meetings in which grading activities are discussed;
- (d) Oversee and ensure all work is performed in accordance with the Project-specific SWPPP and all updates thereto, or as designated by the engineer;
- (e) Review the project site for compliance with the Project SWPPP, as needed, from the start of any grading operations until final stabilization is achieved, and take necessary actions to correct any known deficiencies to prevent pollution of the waters of the state or adjacent property owners prior to the engineer's weekly inspections;
- (f) Review and acknowledge receipt of each MoDOT Inspection Report (Land Disturbance Inspection Record) for the Project within forty eight (48) hours of receiving the report and ensure that all Stormwater Deficiencies noted on the report are corrected as soon as possible, but no later than stated in Section 5.0.

**3.0 Pre-Activity Meeting for Grading/Land Disturbance and Required Hold Point.** A Pre-Activity meeting for grading/land disturbance shall be held prior to the start of any land disturbance operations. No land disturbance operations shall commence prior to the Pre-Activity meeting except work necessary to install perimeter controls and entrances. Discussion items at the pre-activity meeting shall include a review of the Project SWPPP, the planned order of grading operations, proposed areas of initial disturbance, identification of all necessary BMPs that shall be installed prior to commencement of grading operations, and any issues relating to compliance with the Stormwater requirements that could arise in the course of construction activity at the project.

**3.1 Hold Point.** Following the pre-activity meeting for grading/land disturbance and subsequent installation of the initial BMPs identified at the pre-activity meeting, a Hold Point shall occur prior to the start of any land disturbance operations to allow the engineer and WPCM the time needed to perform an on-site review of the installation of the BMPs to ensure compliance with the SWPPP is met. Land disturbance operations shall not begin until authorization is given by the engineer.

**4.0 Inspection Reports.** Weekly and post run-off inspections will be performed by the engineer and each Inspection Report (Land Disturbance Inspection Record) will be entered into a web-based Stormwater Compliance database. The WPCM will be granted access to this database and shall promptly review all reports, including any noted deficiencies, and shall acknowledge receipt of the report as required in Section 2.1 (f.).

**5.0 Stormwater Deficiency Corrections.** All stormwater deficiencies identified in the Inspection Report shall be corrected by the contractor within 7 days of the inspection date or any extended period granted by the engineer when weather or field conditions prohibit the corrective work. If the contractor does not initiate corrective measures within 5 calendar days of the inspection date or any extended period granted by the engineer, all work shall cease on the project except for work to correct these deficiencies, unless otherwise allowed by the engineer. All impact costs related to this halting of work, including, but not limited to stand-by time for equipment, shall be borne by the Contractor. Work shall not resume until the engineer approves the corrective work.

**5.1 Liquidated Damages.** If the Contractor fails to complete the correction of all Stormwater Deficiencies listed on the MoDOT Inspection Report within the specified time limit, the Commission will be damaged in various ways, including but not limited to, potential liability, required mitigation, environmental clean-up, fines, and penalties. These damages are not reasonably capable of being computed or quantified. Therefore, the contractor will be charged with liquidated damages specified in the amount of \$2,000 per day for failure to correct one or more of the Stormwater Deficiencies listed on the Inspection Report within the specified time limit. In addition to the stipulated damages, the stoppage of work shall remain in effect until all corrections are complete.

**6.0 Basis of Payment.** No direct payment will be made for compliance with this provision.

- **Delete Sec 106.9 in its entirety and substitute the following:**

**106.9 Buy America Requirements.**

Buy America Requirements are waived if the total amount of Federal financial assistance applied to the project, through awards or subawards, is below \$500,000.

**106.9.1 Buy America Requirements for Iron or Steel Products.**

The contractor's attention is directed to Title 23 CFR 635.410 *Buy America Requirements*. Where articles, materials or supplies that consist wholly or predominantly of iron or steel or a combination of both are to be permanently incorporated into the contract work, steel and iron material shall be manufactured, from the initial melting stage through the application of coatings, in the USA except for "minimal use" as described herein. Predominantly of iron or steel or a combination of both means that the cost of the iron and steel content exceeds 50 percent of the total cost of all its components. Under a general waiver from FHWA the use of pig iron and processed, pelletized, and reduced iron ore manufactured outside of the USA will be permitted in the domestic manufacturing process for steel or iron material.

**106.9.1.1** Any sources other than the USA as defined will be considered foreign. The required domestic manufacturing process shall include formation of ingots and any subsequent process. Coatings shall include any surface finish that protects or adds value to the product.

**106.9.1.2** “Minimal use” of foreign steel, iron or coating processes will be permitted, provided the cost of such products does not exceed 1/10 of one percent (0.1 percent) of the total contract cost or \$2,500.00, whichever is greater. If foreign steel, iron, or coating processes are used, invoices to document the cost of the foreign portion, as delivered to the project, shall be provided and the engineer’s written approval obtained prior to placing the material in any work.

**106.9.1.3** Buy America requirements include a step certification for all fabrication processes of all steel or iron materials that are accepted per Sec 1000. The AASHTO Product Evaluation and Audit Solutions compliance program verifies that all steel and iron products fabrication processes conform to 23 CFR 635.410 Buy America Requirements and is an acceptable standard per 23 CFR 635.410(d). AASHTO Product Evaluation and Audit Solutions compliant suppliers will not be required to submit step certification documentation with the shipment for some selected steel and iron materials. The AASHTO Product Evaluation and Audit Solutions compliant supplier shall maintain the step certification documentation on file and shall provide this documentation to the engineer upon request.

**106.9.1.3.1** Items designated as Category 1 will consist of steel girders, piling, and reinforcing steel installed on site. Category 1 items require supporting documentation prior to incorporation into the project showing all steps of manufacturing, including coating, as being completed in the United States and in accordance with CFR Title 23 Section 635.410 Buy America Requirements. This includes the Mill Test Report from the original producing steel mill and certifications documenting the manufacturing process for all subsequent fabrication, including coatings. The certification shall include language that certifies all steel and iron materials permanently incorporated in this project was procured and processed domestically and all manufacturing processes, including coating, as being completed in the United States and in accordance with CFR Title 23 Section 635.410.

**106.9.1.3.2** Items designated as Category 2 will include all other steel or iron products not in Category 1 and permanently incorporated in the project. Category 2 items shall consist of, but not be limited to items such as fencing, guardrail, signing, lighting and signal supports. The prime contractor is required to submit a material of origin form certification prior to incorporation into the project from the fabricator for each item that the product is domestic. The Certificate of Materials Origin form ([link to certificate form](#)) from the fabricator must show all steps of manufacturing, including coating, as being completed in the United States and in accordance with CFR Title 23 Section 635.410 Buy America Requirements and be signed by a fabricator representative. The engineer reserves the right to request additional information and documentation to verify that all Buy America requirements have been satisfied. These documents shall be submitted upon request by the engineer and retained for a period of 3 years after the last reimbursement of the material.

**106.9.1.3.3** Any minor miscellaneous steel or iron items that are not included in the materials specifications shall be certified by the prime contractor as being procured domestically. Examples of these items would be bolts for sign posts, anchorage inserts, etc. The certification shall read “I certify that all steel and iron materials permanently incorporated in this project during all manufacturing processes, including coating, as being completed in the United States and in accordance with CFR Title 23 Section 635.410 Buy America Requirements procured and processed domestically in accordance with CFR Title 23 Section 635.410 Buy America

Requirements. Any foreign steel used was submitted and accepted under minor usage". The certification shall be signed by an authorized representative of the prime contractor.

**106.9.1.4** When permitted in the contract, alternate bids may be submitted for foreign steel and iron products. The award of the contract when alternate bids are permitted will be based on the lowest total bid of the contract based on furnishing domestic steel or iron products or 125 percent of the lowest total bid based on furnishing foreign steel or iron products. If foreign steel or iron products are awarded in the contract, domestic steel or iron products may be used; however, payment will be at the contract unit price for foreign steel or iron products.

**106.9.2 Buy America Requirements for Construction Materials other than iron or steel products.**

Construction materials mean articles, materials, or supplies that consist of only one of the items listed. Minor additions of articles, materials, supplies, or binding agents to a construction material do not change the categorization of the construction material. Upon request by the engineer, the contractor shall submit a domestic certification for all construction materials listed that are incorporated into the project.

- (a) Non-ferrous metals
- (b) Plastic and Polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables)
- (c) Glass (including optic glass)
- (d) Fiber optic cable (including drop cable)
- (e) Optical fiber
- (f) Lumber
- (g) Engineered wood
- (h) Drywall

**106.9.3 Buy America Requirements for Manufactured Products.**

Manufactured products mean articles, materials or supplies that have been processed into a specific form and shape, or combined with other articles, materials or supplies to create a product with different properties than the individual articles, materials or supplies. If an item is classified as an iron or steel product, an excluded material, or other product category as specified by law or in 2 CFR part 184, then it is not a manufactured product. However, an article, material or supply classified as a manufactured product may include components that are iron or steel products, excluded materials, or other product categories as specified by law or in 2 CFR part 184. Mixtures of excluded materials delivered to a work site without final form for incorporation into a project are not a manufactured product.

**106.9.3.1** Produced in the United States, in the case of manufactured products, means:

- (A) For projects obligated on or after October 1, 2025, the product was manufactured in the United States; and
- (B) For projects obligated on or after October 1, 2026, the product was manufactured in the United States and the cost of the components of the manufactured product that are mined, produced, or manufactured in the United States is greater than 55 percent of the total cost of all components of the manufactured product.

**106.9.3.2** (i) With respect to precast concrete products that are classified as manufactured products, components of precast concrete products that consist wholly or predominantly of iron or steel or a combination of both shall meet the requirements of paragraph (b) of this section. The

cost of such components shall be included in the applicable calculation for purposes of determining whether the precast concrete product is produced in the United States.

(ii) With respect to intelligent transportation systems and other electronic hardware systems that are installed in the highway right of way or other real property and classified as manufactured products, the cabinets or other enclosures of such systems that consist wholly or predominantly of iron or steel or a combination of both shall meet the requirements of paragraph (b) of this section. The cost of cabinets or other enclosures shall be included in the applicable calculation for purposes of determining whether systems referred to in the preceding sentence are produced in the United States.

**106.9.4 Waiver for De Minimis Costs for Manufactured and Construction Materials other than iron or steel products.**

“The total value of the non-compliant products is no more than the lesser of \$1,000,000 or 5% of total applicable costs for the project.” The contractor shall submit to the engineer any non-domestic materials and their total material cost to the engineer. The contractor and the engineer will both track these totals to assure that the minimal usage allowance is not exceeded.

- Third-Party Test Waiver for Concrete Aggregate

**1.0 Description.** Third party tests may be allowed for determining the durability factor for concrete pavement and concrete masonry aggregate.

**2.0 Material.** All aggregate for concrete shall be in accordance with Sec 1005.

**2.1** MoDOT personnel shall be present at the time of sampling at the quarry. The aggregate sample shall be placed in an approved tamper-evident container (provided by the quarry) for shipment to the third-party testing facility.

**2.2** AASHTO T 161 Method B Resistance of Concrete to Rapid Freezing and Thawing, shall be used to determine the aggregate durability factor. All concrete beams for testing shall be 3-inch wide by 4-inch deep by 16-inch long or 3.5-inch wide by 4.5-inch deep by 16-inch long. All beams for testing shall receive a 35-day wet cure fully immersed in saturated lime water prior to initiating the testing process.

**2.3** Concrete test beams shall be made using a MoDOT approved concrete pavement mix design.

**3.0 Testing Facility Requirements.** All third-party test facilities shall meet the requirements outlined in this provision.

**3.1** The testing facility shall be AASHTO accredited.

**3.1.1** For tests ran after January 1, 2025, accreditation documentation shall be on file with the Construction and Materials Division prior to any tests being performed.

**3.1.2** Construction and Materials Division may consider tests completed prior to January 1, 2025, to be acceptable if all sections of this provision are met, with the exception of 3.1.1. Accreditation documentation shall be provided with the test results for tests completed prior to January 1, 2025. No tests completed prior to September 1, 2024, will be accepted.

**3.2** The testing facility shall provide their testing process, list of equipment, equipment calibration documentation, and testing certifications or qualifications of technicians performing the AASHTO T 161 Procedure B tests. The testing facility shall provide details on their freezing and thawing apparatus including the time and temperature profile of their freeze-thaw chamber. The profile shall include the temperature set points throughout the entirety of the freeze-thaw cycle. The profile shall show the cycle time at which the apparatus drains/fills with water and the cycle time at which the apparatus begins cooling the specimens.

**3.3** Results, no more than five years old, from the third-party test facility shall compare within  $\pm 2.0$  percent of an independent test from another AASHTO accredited test facility or with MoDOT test records, in order to be approved for use (e.g. test facility results in a durability factor of 79, MoDOT's recent durability test factor is 81; this compared within +2 percent). The independent testing facility shall be in accordance with this provision. The comparison test can be from a different sample of the same ledge combination.

**3.4** When there is a dispute between the third party durability test results and MoDOT durability test results, the MoDOT durability test result shall govern.

**3.5** Test results shall be submitted to MoDOT's Construction and Materials division electronically for final approval. Test results shall include raw data for all measurements of relative dynamic modulus of elasticity and percent length change for each individual concrete specimen. Raw data shall include initial measurements made at zero cycles and every subsequent measurement of concrete specimens. Raw data shall include the cycle count and date each measurement was taken. Test results shall also include properties of the concrete mixture as required by AASHTO T 161. This shall include the gradation of the coarse aggregate sample. If AASHTO T 152 is used to measure fresh air content, then the aggregate correction factor for the mix determined in accordance with AASHTO T 152 shall also be included.

**4.0 Method of Measurement.** There is no method of measurement for this provision. The testing requirements and number of specimens shall be in accordance with AASHTO T 161 Procedure B.

**5.0 Basis of Payment.** No direct payment will be made to the contractor or quarry to recover the cost of aggregate samples, sample shipments, testing equipment, labor to prepare samples or test samples, or developing the durability report.

- ***Delete paragraph 15.0 of the General Provision Disadvantaged Business Enterprise (DBE) Program Requirements and substitute the following:***

**15.0 Bidder's List Quote Summary.** MoDOT is a recipient of federal funds and is required by 49 CFR 26.11 to provide data about its DBE program. All bidders who seek to work on federally assisted contracts must submit data about all DBE and non-DBEs in accordance with Sec 102.7.9. MoDOT will not compare the submitted Bidder's List Quote Summary to any other documents or submittals, pre or post award. All information will be used by MoDOT in accordance with 49 CFR 26.11 for reporting to USDOT and to aid in overall DBE goal setting.

- ***Add Sec 102.7.9 to include the following:***

**102.7.9 Bidder's List Quote Summary.** Each bidder shall submit with each bid a summary of all subcontractors, material suppliers, and service providers (e.g. hauling) considered on federally funded projects pursuant to 49 CFR 26.11. The bidder will provide the firm's name, the corresponding North American Industry Classification System (NAICS) code(s) the firm(s) were considered for, and whether or not they were used in the bid. The information submitted should be the most complete information available at the time of bid. The information shall be disclosed on the Bidder's List Quote Summary form provided in the bidding documents and submitted in accordance with Sec 102.10. Failure to disclose this information may result in a bid being declared irregular.

MM. Previous Job Order Information

**1.0 Previous Job Orders.** Job Order information, consisting of quantities and pay items that were issued for past contracts will be available from the Project Contact upon the bidder's written request. This information does not constitute part of the bid or contract documents. It is provided for the bidder's use during bid preparation and shall not be considered a representation of actual Job Orders to be issued during construction for this contract. Furnishing this information does not relieve a bidder or contractor from the responsibility of estimating the number and types of Job Orders that will be issued for future contracts. The bidder or contractor shall assume the risk of error if the information is used for any purposes for which the information was not intended. The Commission makes no representation as to the accuracy or reliability of the information, since the information may not be representative of the sealed contract documents. Any assumption the bidder or contractor may make from this information is at the bidder or contractor's risk; none are intended by the Missouri Highways and Transportation Commission. The bidder or contractor assumes the sole risk of liability or loss if the bidder or contractor does rely on this information to its detriment, delay or loss.

NN. Railroad Requirements

**1.0** The right of way of various Railroads, herein called "Railroad", are located within the limits of this project. However, this project has been developed with the specific intention that no involvement with the Railroad's facilities, traffic or right of way is required for the performance of the contractual work herein. The work to be performed over the Railroad's right of way shall not interfere with the Railroad's operations or facilities. Under these circumstances, the requirements of Sec 104.12.3, Sec 104.12.8 through 104.12.10.5 (inclusive), and Sec 107.13.4 shall not apply.

**2.0** Should the contractor violate this condition of no railroad involvement, all terms and conditions of the interaction with the Railroad shall be solely between the Railroad and the contractor.