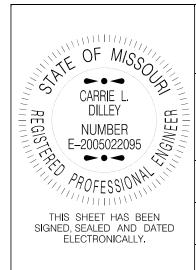
Job No.: J7S3194 Route: 86 Taney County:

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# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 W. CAPITOL AVE. JEFFERSON CITY, MO 65102 Phone 1-888-275-6636

CRAWFORD, MURPHY & TILLY, INC. 1631 W. Elfindale Springfield, MO 65807

Certificate of Authority: 000631 Consultant Phone: 417-869-6009

If a seal is present on this sheet, JSP's have been electronically sealed and dated.

JOB NUMBER: J7S3194 TANEY COUNTY, MO DATE PREPARED: 9/7/2021

ADDENDUM DATE:

Only the following items of the Job Special Provisions (Roadway) are authenticated by this seal:  $\mbox{\rm ALL}$ 

# JOB SPECIAL PROVISION

# A. <u>General – Federal</u> JSP-09-02G

- **1.0 Description.** The Federal Government is participating in the cost of construction of this project. All applicable Federal laws, and the regulations made pursuant to such laws shall be observed by the contractor, and the work will be subject to the inspection of the appropriate Federal Agency in the same manner as provided in Sec 105.10 of the Missouri Standard Specifications for Highway Construction with all revisions applicable to this bid and contract.
- 1.1 This contract requires payment of the prevailing hourly rate of wages for each craft or type of work required to execute the contract as determined by the Missouri Department of Labor and Industrial Relations, and requires adherence to a schedule of minimum wages as determined by the United States Department of Labor. For work performed anywhere on this project, the contractor and the contractor's subcontractors shall pay the higher of these two applicable wage rates. State Wage Rates, Information on the Required Federal Aid Provisions, and the current Federal Wage Rates are available on the Missouri Department of Transportation web page at <a href="https://www.modot.org">www.modot.org</a> under "Doing Business with MoDOT", "Contractor Resources". Effective Wage Rates will be posted 10 days prior to the applicable bid opening. These supplemental bidding documents 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.
- **1.2** The following documents are available on the Missouri Department of Transportation web page at <a href="www.modot.org">www.modot.org</a> 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 2021 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. Contract Liquidated Damages JSP-13-01B

- **1.0 Description.** Liquidated Damages for failure or delay in completing the work on time for this contract shall be in accordance with Sec 108.8. The liquidated damages include separate amounts for road user costs and contract administrative costs incurred by the Commission.
- **2.0 Period of Performance.** Prosecution of work is expected to begin on the date specified below in accordance with Sec 108.2. Regardless of when the work is begun on this contract, all work shall be completed on or before the date specified below. Completion by this date shall be in accordance with the requirements of Sec 108.7.1.

Notice to Proceed: January 31, 2022 Completion Date: September 30, 2024

**2.1 Calendar Days.** The count of calendar days will begin on the date the contractor starts any construction operations on the project.

Job Number Calendar Days Daily Road User Cost
J7S3194 N/A \$2,300

- **3.0 Liquidated Damages for Contract Administrative Costs.** Should the contractor fail to complete the work on or before the completion date specified in Section 2.0, or within the number of calendar days specified in Section 2.1, whichever occurs first, the contractor will be charged contract administrative liquidated damages in accordance with Sec 108.8 in the amount of \$3,000 per calendar day for each calendar day, or partial day thereof, that the work is not fully completed. For projects in combination, these damages will be charged in full for failure to complete one or more projects within the above specified completion date or calendar days.
- **4.0 Liquidated Damages for Road User Costs.** Should the contractor fail to complete the work on or before the completion date specified in Section 2.0, or within the number of calendar days specified in Section 2.1, whichever occurs first, the contractor will be charged road user costs in accordance with Sec 108.8 in the amount specified in Section 2.1 for each calendar day, or partial day thereof, that the work is not fully completed. These damages are in addition to the contract administrative damages and any other damages as specified elsewhere in this contract.
- C. Work Zone Traffic Management JSP-02-06J
- **1.0 Description.** 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.
- 1.1 Maintaining Work Zones and Work Zone Reviews. The Work Zone Specialist (WZS) shall maintain work zones in accordance with Sec 616.3.3 and as further stated herein. The WZS shall coordinate and implement any changes approved by the engineer. The WZS shall ensure all traffic control devices are maintained in accordance with Sec 616, the work zone is operated within the hours specified by the engineer, and will not deviate from the specified hours without prior approval of the engineer. The WZS is responsible to manage work zone delay in accordance with these project provisions. When requested by the engineer, the WZS shall submit a weekly report that includes a review of work zone operations for the week. The report shall identify any problems encountered and corrective actions taken. Work zones are subject to unannounced inspections by the engineer and other departmental staff to corroborate the validity of the WZS's review and may require immediate corrective measures and/or additional work zone monitoring.
- **1.2 Work Zone Deficiencies.** Failure to make corrections on time may result in the engineer suspending work. The suspension will be non-excusable and non-compensable regardless if road user costs are being charged for closures.
- 2.0 Traffic Management Schedule.

**2.1** Traffic management schedules shall be submitted to the engineer for review prior to the start of work and prior to any revisions to the traffic management schedule. The traffic management schedule shall include the proposed traffic control measures, the hours traffic control will be in place, and work hours.

- **2.2** The traffic management schedule shall conform to the limitations specified in Sec 616 regarding lane closures, traffic shifts, road closures and other width, height and weight restrictions.
- **2.3** The engineer shall be notified as soon as practical of any postponement due to weather, material or other circumstances.
- **2.4** 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 opened to traffic.
- 2.5 Traffic Congestion. The contractor shall, upon approval of the engineer, take proactive measures to reduce traffic congestion in the work zone. The contractor shall immediately implement appropriate mitigation strategies whenever traffic congestion reaches an excess of 10 minutes to prevent congestion from escalating to 15 minute or above threshold. If disruption of the traffic flow occurs and traffic is backed up in queues of 15 minute delays or longer, then the contractor shall immediately review the construction operations which contributed directly to disruption of the traffic flow and make adjustments to the operations to prevent the queues from reoccurring. Traffic delays may be monitored by physical presence on site or by utilizing real-time travel data through the work zone that generate text and/or email notifications where available. The engineer monitoring the work zone may also notify the contractor of delays that require prompt mitigation. The contractor may work with the engineer to determine what other alternative solutions or time periods would be acceptable.

#### 2.5.1 Traffic Safety.

- **2.5.1.1 Recurring Congestion.** Where traffic queues routinely extend to within 1000 feet of the ROAD WORK AHEAD, or similar, sign on a divided highway or to within 500 feet 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.
- **2.5.1.2 Non-Recurring Congestion.** When traffic queues extend to within 1000 feet of the ROAD WORK AHEAD, or similar, sign on a divided highway or to within 500 feet of the ROAD WORK AHEAD, or similar, sign on an undivided highway infrequently, 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 and no more than 0.5 mile in advance of the end of the traffic queue on divided highways and no less than 500 feet and no more than 0.5 mile in advance of the end of the traffic queue on undivided highways.

#### 3.0 Work Hour Restrictions.

**3.1** Except for emergency work, as determined by the engineer, and long term lane closures required by project phasing, all lanes shall be scheduled to be open to traffic during the five major holiday periods shown below, 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 approved by the engineer.

Memorial Day Labor Day Thanksgiving Christmas New Year's Day

**3.1.1 Independence Day.** The lane restrictions specified in Section 3.1 shall also apply to Independence Day, except that the restricted periods shall be as follows:

```
12:00 noon July 1, 2022 – 6:00 a.m. July 5, 2022
12:00 noon June 30, 2023 – 6:00 a.m. July 5, 2023
12:00 noon June 30, 2024 – 6:00 a.m. July 5, 2024
```

- **3.2** The contractor shall not perform any construction operation on the roadway, during restricted periods, holiday periods or other special events specified in the contract documents.
- **3.3** The contractor will ensure construction activities are generally limited to Monday through Friday during normal working hours.

#### 4.0 Detours and Lane Closures.

- **4.1** When a changeable message sign (CMS) is provided, the contractor shall use the CMS to notify motorists of future traffic disruption and possible traffic delays one week before traffic is shifted to a detour or prior to lane closures. The CMS shall be installed at a location as approved or directed by the engineer. The CMS shall be capable of communication with the Transportation Management Center (TMC), if applicable, prior to installation on right of way. All messages planned for use in the work zone shall be approved and authorized by the engineer or its designee prior to deployment. When permanent dynamic message signs (DMS) owned and operated by MoDOT are located near the project, they may also be used to provide warning and information for the work zone. Permanent DMS shall be operated by the TMC, and any messages planned for use on DMS shall be approved and authorized by the TMC at least 72 hours in advance of the work.
- **4.2** Per the environmental commitments, the public, emergency, and school services will be notified of the road work 30 days prior to the start of construction, and one week before the establishment of a detour. A plan for how notifications will occur to be developed by the contractor as part of the Traffic Management Plan.
- **4.3** The contractor will be restricted to placing traffic on the temporary runaround until shifting traffic is required for bridge construction activities.
- **4.4** Maximum length of closure of Route 86 in construction Stage 2 will be 6 days. Liquidated damages will be applied. See JSP I Liquidated Damages Specified for Route 86 Closure JSP-93-28.
- **5.0 Basis of Payment.** No direct payment will be made to the contractor to recover the cost of equipment, labor, materials, or time required to fulfill the above provisions, unless specified

elsewhere in the contract document. All authorized changes in the traffic control plan shall be provided for as specified in Sec 616.

# D. <u>Emergency Provisions and Incident Management</u> JSP-90-11A

- **1.0** The contractor shall have communication equipment on the construction site or immediate access to other communication systems to request assistance from law enforcement or other emergency agencies for incident management. In case of traffic accidents or the need for law enforcement to direct or restore traffic flow through the job site, the contractor shall notify law enforcement or other emergency agencies immediately as needed. The area engineer's office shall also be notified when the contractor requests emergency assistance.
- **2.0** In addition to the 911 emergency telephone number for ambulance, fire or law enforcement services, the following agencies may also be notified for accident or emergency situation within the project limits.

Missouri Highway Patrol: 417-895-6868			
Western Taney County Fire District	Taney County Sheriff's Office		
417-334-3440	417-546-7250		

- **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 law enforcement agency.
- **2.2** The contractor shall notify law 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 law enforcement and emergency agencies, a report shall be furnished to the engineer on the status of incident management.
- **2.0** No direct pay will be made to the contractor to recover the cost of the communication equipment, labor, materials, or time required to fulfill the above provisions.

# E. Project Contact for Contractor/Bidder Questions JSP-96-05

All questions concerning this project during the bidding process shall be forwarded to the project contact listed below.

Jason Evenden Transportation Project Manager - Southwest District 3025 East Kearney St. Springfield, MO 65803

Telephone Number: 417-895-7742 Email: <u>Jason.Evenden@modot.mo.gov</u>

All questions concerning the bid document preparation can be directed to the Central Office – Design at (573) 751-2876.

# F. Supplemental Revisions JSP-18-01R

Compliance with <u>2 CFR 200.216 – Prohibition on Certain Telecommunications and Video</u> 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.

#### COVID-19 Safety

- **1.0 Description.** The coronavirus disease 2019 or COVID-19 has reached a pandemic stage across the United States, including the State of Missouri. To reduce the impact of COVID-19 outbreak conditions on businesses, workers, customers and the public, the contractor shall be aware of all COVID-19 guidance from the Center for Disease Control (CDC) and other government health mandates. The contractor shall conduct all operations in conformance with these safety directives. The guidance may change during the project construction and the contractor shall change and adapt their operation and safety protocols accordingly.
- **2.0 Safety Plan.** The contractor shall include these procedures in the project safety plan as called for in the contract documents and revise the safety plan as needed.
- **3.0 Essential Work.** In accordance with any state or local Stay at Home Order, care for the infrastructure has been deemed essential and MoDOT is moving forward with construction projects, this project is considered essential and the contractor and their employees, subcontractors and suppliers are considered essential business and performing essential functions.
- **4.0 Basis of Payment.** Compliance with regulations and laws pertaining to COVID-19 is covered under Sec 107 of the Missouri Standard Specifications for Highway Construction. No direct payment will be made for compliance with this provision.

#### Anti-Discrimination Against Israel Certification

By signing this contract the Company certifies it is not currently engaged in and shall not, for the duration of the contract, engage in a boycott of goods or services from the State of Israel, companies doing business in or with Israel or authorized by, licensed by, or organized under the laws of the State of Israel, or persons or entities doing business in the State of Israel as defined

by Section 34.600 RSMo. This certification shall not apply to contracts with a total potential value of less than One Hundred Thousand Dollars (\$100,000) or to contractors with fewer than ten (10) employees.

#### G. Quality Management NJSP-15-22

- **1.0 Quality Management.** The contractor shall provide Quality Management as specified herein to ensure the project work and materials meets or exceeds all contract requirements.
- **1.1** The contractor shall provide Quality Control (QC) of the work and material, as specified herein, to ensure all work and material is in compliance with contract requirements. QC staff shall perform and document all inspection and testing. The QC inspectors and testers may be employed by the contractor, sub-contractor, or a qualified professional service provided by the contractor.
- **1.2** The engineer will provide Quality Assurance (QA) inspection. The role of QA is to verify the performance of QC and provide confidence that the product will satisfy given requirements for quality.
- **1.3** The contractor shall designate a person to serve as the project Quality Manager (QM). The QM shall be knowledgeable of standard testing and inspection procedures for highway and bridge construction, including a thorough understanding of the Missouri Standard Specifications. The QM shall be responsible for the implementation and execution of the Quality Management Plan and shall oversee all QC responsibilities, including all sub-contract work. The QM shall be the primary point of contact for all quality related issues and responsibilities, and shall ensure qualified QC technicians and inspectors are assigned to all work activities. The QM should be separate from the manager of the work activities to effectively manage a QC program.
- **1.4** Any QC personnel determined in sole discretion of the engineer to be incompetent, derelict in their duties, or dishonest, shall at a minimum be removed from the project. Further investigation will follow with a stop work notification to be issued until the contractor submits a corrective action report that meets the approval of the engineer.
- **2.0 Quality Management Plan.** The contractor shall develop, implement and maintain a Quality Management Plan (QMP) that will ensure the project quality meets or exceeds all contract requirements, and provides a record for acceptance of the work and material. A sample QMP, which shows minimum requirements, is provided on the MoDOT website at: www.modot.org/quality.
- **2.1** The QMP shall address all QC inspection and testing requirements of the work as described herein. A draft QMP shall be submitted to the Resident Engineer for review at least two weeks prior to the pre-construction conference. An approved QMP is required at least two weeks prior to the start of work, unless otherwise allowed by the engineer. Physical work on the project shall not begin prior to approval of the QMP by the engineer.
- **2.2** The approved QMP shall be considered a contract document and any revisions to the QMP will require approval from the engineer.
- **2.3** The following items shall be included in the Quality Management Plan:

a) Organizational structure of the contractor's project management, production staff, and QC staff, specific to this project.

- b) Name, qualifications, and job duties of the Quality Manager.
- c) A list of all certified QC testers who will perform QC duties on the project, including subcontract work, and the tests in which they are certified.
- d) A list of all QC inspectors who will perform QC inspection duties on the project, including sub-contract work, and the areas of inspection that they will be assigned.
- e) A procedure for verifying documentation is accurate and complete as outlined in Section 3.
- f) A procedure describing QC Inspections as outlined in Section 4.
- g) A procedure describing QC Testing, as outlined in Section 5, including a job specific Inspection and Test Plan (ITP).
- h) A procedure describing Material Receiving as outlined in Section 6.
- i) A list of Hold Points that are not included in the checklist forms, as outlined in Section 8.
- j) A procedure for documenting and resolving Non-Conforming work as outlined in Section 9.
- k) A procedure for tracking and documenting revisions to the QMP.
- A list of any approved changes to the Standard Specifications or ITP, including a reference to the corresponding change order.
- m) Format for the Weekly Schedule and Work Plans as outlined in Section 10, including a list of activities that will require pre-activity meetings.
- **3.0 Project Documentation.** The contractor shall establish a Document Control Procedure for producing and uploading the required Quality Management documents to a MoDOT-provided server. The document management software used by MoDOT is Microsoft SharePoint®. Contractors do not need to purchase Microsoft SharePoint®, however, it is recommended that new users acquire some basic training to better understand how to use this software. MoDOT does not provide the software training, but there are several online vendors who do. Contractors are required to use Microsoft Excel® and Microsoft Word® with some documents.
- **3.1** The contractor shall utilize the file structure and file naming convention provided by MoDOT. A sample file structure is available on the MoDOT website.
- **3.2** Documents (standard forms, reports, and checklists) referenced throughout this provision are considered the minimum documentation required. They shall be obtained from MoDOT at the following web address: <a href="www.modot.org/quality">www.modot.org/quality</a>. The documents provided by MoDOT are required to be used in the original format, unless otherwise approved by the engineer. Any alteration to these forms shall be approved by the engineer.

**3.3** Timely submittal of the required documents to the MoDOT document storage location is essential to ensure payment can be processed for the completed work. Submittal of the documents is required within 12 hours of the work shift that the work was performed, or on a document-specific schedule approved by the engineer and included in the QMP.

- **3.4** The contractor shall establish a verification procedure that ensures all required documents are submitted to the engineer within the specified time, and prior to the end of each pay period for the work that was completed during that period. Payment will not be made for work that does not include all required documents. Minimum documents that might be required prior to payment include: Test Reports, Inspection Checklists, Materials Receiving Reports, and Daily Inspection Reports.
- **3.5** The contractor shall perform an audit at project closeout to ensure the final collection of documents is accurate and complete.
- **4.0 Quality Control Inspections.** The QMP shall identify a procedure for performing QC inspections. QC inspections shall be performed for all project activities to ensure the work is in compliance with the contract, plans and specifications.
- **4.1** The QM shall identify the QC inspectors assigned to each work activity. The QC inspectors shall inspect the work to ensure the work is completed in accordance with the plans and specifications, and shall document the inspection by completing the required inspection checklists, forms, and reports provided by MoDOT. Depending on the type of work, the checklists may be necessary daily, or they may follow a progressive work process. The frequency of each checklist shall be stated in the QMP. The contractor may propose alternate versions of checklists that are more specific to the work.
- **4.2** A Daily Inspection Report (DIR) is required to document pertinent activity on the project each day. This report shall include a detailed diary that describes the work performed as well as observations made by the inspection staff regarding quality control. The report shall include other items such as weather conditions, location of work, installed quantities, tests performed, and a list of all subcontractors that performed work on that date. The report shall include the full name of the responsible person who filled out the report and shall be digitally signed by an authorized contractor representative.
- **4.3** External fabrication of materials does not require further QC inspection if the product is currently under MoDOT inspection or an approved QC/QA program. QC inspection and testing required in the production of concrete for the project shall be the responsibility of the contractor.
- **4.4** The contractor shall measure, and document on the DIR, the quantity for all items of work that require measurement. Any calculations necessary to support the measurement shall be included with the documentation. The engineer will verify the measurements prior to final payment.
- **5.0 Quality Control Testing.** The QMP shall identify a procedure for QC testing. The contractor shall perform testing of the work at the frequency specified in the Inspection and Test Plan (ITP).
- **5.1** MoDOT will provide a standard ITP and the contractor shall modify it to include only the items of work in the contract, including adding any Job Special Provision items. The standard ITP is available on the MoDOT website at <a href="https://www.modot.org/quality">www.modot.org/quality</a>. The contractor shall not

change the specifications, testing procedures, or the testing frequencies, from the standard ITP without approval by the engineer and issuance of a change order.

- **5.2** Test results shall be recorded on the standard test reports provided by the engineer, or in a format approved by the engineer. Any test data shall be immediately provided to the engineer upon request at any time, including prior to the submission of the test report.
- **5.3** The contractor shall ensure that all personnel who perform sampling and/or testing are certified by the MoDOT Technician Certification Program or a certification program that has been approved by MoDOT for the sampling and testing they perform.
- **5.4** If necessary, an independent third party will be used to resolve any significant discrepancies between QC and QA test results. All dispute resolution testing shall be performed by a laboratory that is accredited in the AASHTO Accreditation Program in the area of the test performed. The contractor shall be responsible for the cost to employ the third party laboratory if the third party test verifies that the QA test was accurate. The Commission shall be responsible for the cost if the third party test verifies that the QC test was accurate.
- **6.0 Material Receiving.** The QMP shall identify a procedure for performing material receiving. Standard material receiving forms will be provided by the engineer.
- **6.1** The procedure shall address inspections for all material delivered to the site (excluding testable material such as concrete, asphalt, aggregate, etc.) for general condition of the material at the time it is delivered. The material receiving procedure shall record markings and accompanying documentation indicating the material is MoDOT accepted material (MoDOT-OK Stamp, PAL tags, material certifications, etc.).
- **6.2** All required material documentation must be present at the time of delivery. If the material is not MoDOT accepted, the contractor shall notify the engineer immediately and shall not incorporate the material into the work.
- **7.0 Quality Assurance.** The engineer will perform Quality Assurance inspection and testing (QA) to verify the performance of QC inspection and testing. The frequency of the QA testing will be as shown in the ITP, but may be more frequent at the discretion of the engineer. The engineer will record the results of the QA testing and inspection and will inform the contractor of any known discrepancies.
- **7.1** QA is responsible for verifying the accuracy of the final quantity of all pay items in the contract. This includes taking measurements on items that require measurement and other items that are found to have appreciable errors.
- **7.2** QA inspection and test results shall not be used as a substitute for QC inspection and testing.
- **7.3** QA will be available for Hold Point inspections at the times planned in the Weekly Schedule. The inspections may be re-scheduled as needed, but a minimum 24-hour advance notification from the contractor is required unless otherwise approved by the engineer.
- **8.0 Hold Points.** Hold Points are events that require approval by the engineer prior to continuation of work. Hold Points occur at definable stages of work when the succeeding work depends on a QA review of the preceding work before work can continue.

**8.1** A list of minimum Hold Points will be provided by the engineer and shall be included in the QMP. The engineer may make changes to the Hold Point list at any time.

- **8.2** Prior to all Hold Point inspections, QC shall provide the engineer with the Daily Inspection Reports, Inspection Checklists, Test Reports, and Material Receiving Reports for the work performed leading up to the Hold Point. If the engineer identifies any corrective actions needed during a Hold Point inspection, the corrections shall be completed prior to continuing work. The engineer may require a new Hold Point to be scheduled if the corrections require a follow-up inspection.
- **9.0 Non-Conformance Reporting.** Non-conformance reports shall be issued by the contractor for work that does not meet the contract requirements. Non-conforming work includes work, testing, materials, and processes that do not meet contract requirements. The contractor shall establish a procedure for identifying and resolving non-conforming work as well as tracking the status of the reports.
- **9.1** Contractor QC staff or production staff should identify non-conforming work and document the details on the Non-Conformance Report form provided by MoDOT. QA staff may also initiate a non-conformance report.
- **9.2** In-progress work that does not meet the contract requirements may not require a non-conformance report if production staff is aware of the issue and corrects the problem during production. QC or QA may issue a non-conformance report for in-progress work when documentation of the deficiency is considered beneficial to the project record.
- **9.3** The contractor shall propose a resolution to the non-conforming work. Acceptance of a resolution by the engineer is required before closure of the non-conformance report.
- **9.4** For recurring non-conformance work of the same or similar nature, a written Corrective Action Request will be issued by QC or QA. The contractor shall then establish a procedure for tracking the corrective action from issuance of the request to implementation of the solution. Approval from the engineer is required prior to implementation of the proposed corrective action. The contractor shall notify the engineer after the approved corrective action has been implemented.
- **10.0 Work Planning and Scheduling.** The contractor shall include Quality Management in all aspects of the work planning and scheduling. This shall include providing a Weekly Schedule, a Work Plan for each work activity, and holding pre-activity meetings for each new activity.
- **10.1** A Weekly Schedule shall be provided to the engineer each week that outlines the planned project activities for the following two-week period. This schedule shall include all planned work, identification of all new activities, traffic control events, and requested Hold Point inspections for the period. Planned quantity of materials, along with delivery dates should also be included in the schedule.
- **10.2** A Work Plan shall be submitted to the engineer at least one week prior to the pre-activity meeting. The Work Plan shall include the following: a safety plan, list of materials to be used, work sequence, defined responsibilities for QC testing and inspection personnel, and stages of work that will require Hold Point inspections.

**10.3** A pre-activity meeting is required prior to the start of each new activity. The purpose of this meeting is to discuss details of the Work Plan and schedule, including all safety precautions. Those present at the meeting shall include: the production supervisor for the activity, the Quality Manager, QC inspection and testing staff, and QA. The Quality Manager will review the defined responsibilities for QC testing and inspection personnel and will address any quality issues with the production staff. Attendees may join the meeting in person or by phone or video conference.

**11.0 Basis of Payment.** Payment for all costs associated with developing, implementing and maintaining the Quality Management Plan, providing Quality Control inspection and testing, and all other costs associated with this provision, will be considered included in the unit price of each contract item. No direct pay will be made for this provision.

#### H. MoDOT's Construction Workforce Program NJSP-15-17A

#### 1.0 Description.

- **1.1** Projects utilizing federal funds include contract provisions for minority and female workforce utilization in the various trade crafts used to complete construction contracts. These federal contract workforce goals are described in the section labeled "Notice of Requirement for Affirmative Action to Ensure Equal Employment Opportunity". These goals are included in all MoDOT federal aid contracts and are under the authorization and enforcement of the U.S. Department of Labor (US DOL).
- **1.2** The Federal workforce requirement (Goals TABLE 1) is authorized in 41 CFR Part 60-4 and Executive Order 11246 which set Equal Employment Opportunity goals with Affirmative Action requirements.
- **1.3** The required federal aid workforce provisions noted above, coupled with the following additional contract provisions, constitute MoDOT's Construction Workforce Program herein called Program.
- **1.4** This provision does not require pre-qualification nor is it a condition of award.
- **1.5** The Program does not eliminate or limit any actions the US DOL may take in relation to this contract's federal provisions.
- **1.6** The Program goals included in the contract are separate from any Disadvantaged Business Enterprise (DBE) or On-The-Job (OJT) training provision that may be included as contract provisions. DBE and OJT goals may or may not be included in a contract based on the individual size of contracts, type of contract work, anticipated length of contract, available and willing resources or other reasons.
- **1.7** Contractor, for the purpose of this provision, means the prime contractor and any and all subcontractors.
- **1.8** It is expected that the contractor recognizes the construction workforce goals for both minority and female workers in the project's county and make efforts to attain those goals, if possible, through the existing workforce makeup of the prime (including subcontractors) that will be on the project and/or through hiring opportunities that may arise for the project. However, it is

not the intent of this provision to compel any contractor to displace existing workforce or move workers around to just meet the workforce goals.

- **1.9** If the contractor's existing Missouri construction workforce meets or exceeds the federal workforce goals established in Table 1, then the OJT goal (Training Provision) if included in the contract, does not be apply.
- **1.10 Contractor's Workforce Plan.** The Contractor shall submit its Workforce Plan a minimum of 1 week before construction starts. One plan shall be submitted for the project that shall include the cumulative planned workforce of the prime and subcontractor(s). The contractor shall prepare the plan, for total minority and female utilization, regardless of the craft. The Engineer will provide the Contractor with comments regarding their Workforce Plan prior to the start of construction. Once work starts, all monthly reporting shall include the craft of each worker reported. If the contractor's plan includes project manager, direct project support roles, project testers or other project professionals, these designations should also be included in addition to the workers designated by craft such as laborer, operator, carpenter, ironworker and others.
- 1.11 The plan accepted by the engineer before the start of construction will be the effort expected of the prime contractor to maintain during the life of the project.
- **1.12** If the contractors planned project workforce plan (including OJT hours if included in the contract) is short of the goals included in Table 1, there is opportunity for the contractor to receive a reimbursement of \$10.00 / hour for any new project minority and female hires needed through the remainder of the project. The reimbursement is applicable to work that qualifies for prevailing wage under the federal Davis-Bacon Act, 40 U.S.C. §§ 3141–3148, in accordance with an approved workforce plan. Any reimbursement must be pre-approved by the Engineer. The reimbursement is provided as a remedy to the contractor and as an aid in the long-term growth of experienced persons in the building of roads and bridges in Missouri. The contractor shall manage the plan through the life of the project as described in the plan or as modified, in coordination with the Engineer. The total amount available per project is not capped.
- **1.13** The Contractor's workforce plan may include existing construction support and professional services staff.
- **2.0 Forms and Documentation.** The bidder must submit the following documents if awarded the contract:

**Cumulative Workforce Utilization Reports.** This report is contract specific. One report shall be submitted to the Engineer by the 15<sup>th</sup> of each month. The report will be used to report the total workforce compliance data for the prime contractor and all subcontractors retained by the contractor on the Commission's construction contract. The reporting shall include the workforce hours per each craft broken down by gender and ethnicity. Construction Support, testing and other professional services hours shall be included as these hours are part of the overall plan. The report will include the previous month's hours worked for the project. For projects less than 60 days in length, only one report with total hours worked by classification is required at substantial completion of construction.

3.0 Methods for Securing Workforce Participation and Good Faith Efforts.

**3.1** By submitting a bid, the Bidder agrees, as a material term of the contract, to carry out MoDOT's Construction Workforce Program by making good-faith efforts to utilize minority and female workers on the contractor's job sites to the fullest extent consistent with submitting the lowest bid to MoDOT. The Bidder shall agree that the Program is incorporated into this document and agree to follow the Program. If a bidder is unable to meet the workforce goals at the time of bid, it shall be required to objectively demonstrate to MoDOT that the goals have been met or demonstrate a good faith effort has been made with the level of effort submitted prior to the start of construction.

- **3.2** The Engineer, through consultation with MoDOT's External Civil Rights (ECR's) Division, may determine that the contractor has demonstrated that good-faith efforts to secure minority and female participation have been made.
- **3.3** In evaluating good-faith efforts, the ECR's Division will take into consideration the affirmative actions listed in the Federal Provisions (including provisions of Executive Order 11246).
- **3.4** MoDOT's Program allows the contractor flexibility to implement a project specific workforce and improve the diversity of their existing workforce that can be utilized across various areas of the state to meet future MoDOT Program goals and Federal Provisions.
- **3.5** If the contractor's approved plan changes during the project and/or the available workforce changes from what is approved at any time, it is the contractor's responsibility to remedy, in coordination with MoDOT's ECR Division, the conditions as outlined and made available through this provision.
- **4.0 Compliance Determination. (Required with project closeout)** All documentation and on-site information will be reviewed by MoDOT's ECR Division in making a determination of whether the contractor made sufficient good faith efforts to meet the compliance with MoDOT's Construction Workforce Program.
- **5.0 Liquidated Damages.** If the contractor elects to not submit a workforce plan prior to work starting or fails to fulfill their workforce plan committed to prior to the start of construction, the contractor will be required to establish a good-faith effort determination, as to why either of these events occurred. MoDOT may sustain damages, the exact extent of which would be difficult or impossible to ascertain, as this impacts the cost of future road and bridge construction. Therefore, in order to liquidate those damages, MoDOT shall be entitled, at its sole discretion, to deduct and withhold the following amounts: The sum of one thousand five hundred (\$1,500)
- **6.0 Administrative Reconsideration.** The contractor shall be offered the opportunity for administrative reconsideration upon written request related to findings and/or actions determined by MoDOT's ECR's Division. The Administrative Reconsideration Committee shall be composed of individuals not involved in the original MoDOT determination(s).
- **7.0** Available Pre-Apprentice Training Programs. The Commission has established a labor force recruiting program intended to assist contractors in identifying, interviewing and hiring qualified job applicants. MoDOT strongly encourages the hiring of individuals from the MoDOT funded pre-apprentice training programs.
- 8.0 Independent Third-Party Compliance Monitor (Monitor). MoDOT may utilize a monitor

that will be responsible for tracking the project's workforce utilization for the information the contractor submits. The contractor and its subcontractors shall allow the monitor access to their reports, be available to answer the monitor's questions and allow the monitor to access to the site and to contractor and subcontractor employees. The monitor shall abide by the contractor's project site protocols.

- **9.0 Regional Diversity Council (Council).** (Applicable to the Kansas City and St. Louis District regions only) The Council shall consist of local community leaders, leadership of local construction trades, MoDOT staff, Industry representation, and a representative(s) from the Federal Highway Administration. The Council will meet quarterly and evaluate the workforce activity per each project according to the following criteria:
  - a. Review monthly workforce reports.
  - b. Review progress toward the stated project workforce program.
  - c. Review findings of Administrative Reconsideration hearings.
  - d. Recommend other workforce actions to MoDOT.

#### 10.0 Federal Workforce Goals.

Female Participation for Each Trade is 6.9% Statewide for Missouri.

Minority Participation for Each Trade is shown below in Table 1.

<u>TABLE 1:</u>

County	Goal (Percent)	County	Goal (Percent)
Adair	4	Linn	4
Andrew	3.2	Livingston	10
Atchison	10	McDonald	2.3
Audrain	4	Macon	4
Barry	2.3	Madison	11.4
Barton	2.3	Maries	11.4
Bates	10	Marion	3.1
Benton	10	Mercer	10
Bollinger	11.4	Miller	4
Boone	6.3	Mississippi	11.4
Buchanan	3.2	Moniteau	4
Butler	11.4	Monroe	4
Caldwell	10	Montgomery	11.4
Callaway	4	Morgan	4
Camden	4	New Madrid	26.5
Cape Girardeau	11.4	Newton	2.3
Carroll	10	Nodaway	10
Carter	11.4	Oregon	2.3
Cass	12.7	Osage	4
Cedar	2.3	Ozark	2.3

	1		
Chariton	4	Pemiscot	26.5
Christian	2	Perry	11.4
Clark	3.4	Pettis	10
Clay	12.7	Phelps	11.4
Clinton	10	Pike	3.1
Cole	4	Platte	12.7
Cooper	4	Polk	2.3
Crawford	11.4	Pulaski	2.3
Dade	2.3	Putnam	4
Dallas	2.3	Ralls	3.1
Daviess	10	Randolph	4
DeKalb	10	Ray	12.7
Dent	11.4	Reynolds	11.4
Douglas	2.3	Ripley	11.4
Dunklin	26.5	St. Charles	14.7
Franklin	14.7	St. Clair	2.3
Gasconade	11.4	St. Francois	11.4
Gentry	10	Ste. Genevieve	11.4
Greene	2	St. Louis City	14.7
Grundy	10	St. Louis County	14.7
Harrison	10	Saline	10
Henry	10	Schuyler	4
Hickory	2.3	Scotland	4
Holt	10	Scott	11.4
Howard	4	Shannon	2.3
Howell	2.3	Shelby	4
Iron	11.4	Stoddard	11.4
Jackson	12.7	Stone	2.3
Jasper	2.3	Sullivan	4
Jefferson	14.7	Taney	2.3
Johnson	10	Texas	2.3
Knox	4	Vernon	2.3
Laclede	2.3	Warren	11.4
Lafayette	10	Washington	11.4
Lawrence	2.3	Wayne	11.4
Lewis	3.1	Webster	2.3
Lincoln	11.4	Worth	10
		Wright	2.3

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

This contractor and subcontractor shall abide by the requirements of 41 CFR 60-1.4(a), 60-300.5(a) and 60-741.5(a). These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities, and prohibit discrimination against all individuals based on their race, color, religion, sex, sexual orientation, gender identity or national origin. Moreover, these regulations require that covered prime contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability or veteran status.

#### As used in these specifications:

# "Minority" includes;

- (i) Black (all person having origins in any of the Black African racial groups not of Hispanic origin);
- (ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race);
- (iii) Asian and pacific islander (all persons having origins in any of the original peoples of the Far East, southeast Asia, the Indian Subcontinent, or the Pacific Islands; and
- (iv) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North American and maintaining identifiable tribal affiliations through membership and participation or community identification).

# I. <u>Liquidated Damages Specified for Route 86 Closure</u> JSP-93-28

- **1.0 Description.** If Route 86 is not complete and open to traffic within **6** days of its closure, the Commission, the traveling public, and state and local police and governmental authorities will be damaged in various ways, including but not limited to, increased construction administration cost, potential liability, traffic and traffic flow regulation cost, traffic congestion and motorist delay, with its resulting cost to the traveling public. 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 **\$50,000** per day for each full day that Route 86 is not complete and open to traffic in excess of the limitation as specified elsewhere in this special provision. It shall be the responsibility of the engineer to determine the quantity of excess closure time.
- **1.1** The said liquidated damages specified will be assessed regardless of whether it would otherwise be charged as liquidated damages under the Missouri Standard Specification for Highway Construction, as amended elsewhere in this contract.

#### J. 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.

#### K. Optional Pavements JSP 06-06G

- **1.0 Description.** This work shall consist of a pavement composed of either Portland cement concrete or asphaltic concrete constructed on a prepared subgrade. This work shall be performed in accordance with the standard specifications and as shown on the plans or established by the engineer.
- **2.0** The quantities shown reflect the total square yards of pavement surface designated for each pavement type as computed and shown on the plans.
- **2.1** No additional payment will be made for asphaltic concrete mix quantities to construct the required 1:1 slope along the edge of the pavement, or for tack applied between lifts of asphalt.
- **2.2** No additional payment will be made for aggregate base quantities outside the limits of the final surface area as computed and shown on the plans. When A2 shoulders are specified, payment for aggregate base will be as shown on the plans.
- **2.3** The grading shown on the plans was designed for the thicker pavement option. For projects with grading in the contract, there will be no adjustment of the earthwork quantities due to adjusting the roadway subgrade for optional pavements.
- **2.4** The contractor shall comply with Sections 401 through 403 for the asphalt option and Sections 501 and 502 for the concrete option.
- **2.5** Pavement options composed of Portland cement concrete shall have contrast pavement marking for intermittent markings (skips), dotted lines, and solid intersection lane lines. The pavement markings shall be in accordance with Section 620. No additional payment will be made for the contrast pavement markings.
- **3.0 Method of Measurement**. The quantities of concrete pavement will be measured in accordance with Section 502.14. The quantities of asphaltic concrete pavement will be measured in accordance with Section 403.22.
- **4.0 Basis of Payment.** The accepted quantity of the chosen option will be paid for by the contract unit bid price for Item 401-99.05, Optional Pavement, per square yard.

#### L. Optional Rumble Strips

**1.0 Description.** This work shall consist of constructing rumble strips as shown on the plans or as directed by the Engineer.

- **2.0 Construction Requirements**. This work shall conform to Section 626 of the Standard Specifications.
- **3.0 Basis of Payment.** The accepted quantity of Optional Rumble Strips will be paid at the contract unit price per 1/10 station under pay item 626-99.09 Optional Rumble Strips.

#### M. <u>Utilities</u> JSP-93-26F

**1.0** For informational purposes only, the following is a list of names, addresses, and telephone numbers of the <u>known</u> utility companies in the area of the construction work for this improvement:

improvement.				
<u>Utility Name</u>	Known Required Adjustment	<u>Type</u>		
White River Electric Cooperative Mic Johnson 2449 State Highway 76 East Branson, MO 65616 Phone: 417-335-9258 Email: mjohnson@whiteriver.org	None (See section 2.1)	Power		
Carrol Electric Cooperative Ryan Butler PO Box 4000 Berryville, AR 72616 Phone: 870-423-2161 Email: rbutler@carrollecc.com	None	Power		
CenturyLink Distribution	None	Communications		

Michael Edwards 2601 Waukesha Road Silom Springs, AR 72761 Phone: 479-524-9943

Email: michael.edwards@centurylink.com

Altice Technical Services (SuddenLink)

None

Communications

Ernest Garza

310 Walnut Extension Branson. MO 65616

Phone: 417-336-8799 ext. 102

Email: ernest.garza@AlticeTechServicesUSA.com

1.1 The existence and approximate location of utility facilities known to exist, as shown on the plans, are based upon the best information available to the Commission at this time. This information is provided by the Commission "as-is" and the Commission expressly disclaims any representation or warranty as to the completeness, accuracy, or suitability of the information for any use. Reliance upon this information is done at the risk and peril of the user, and the Commission shall not be liable for any damages that may arise from any error in the

information. It is, therefore, the responsibility of the contractor to verify the above listing information indicating existence, location, and status of any facility. Such verification includes direct contact with the listed utilities.

- **2.0 White River Electric Cooperative.** White River Electric Cooperative has an overhead single-phase distribution line crossing Route 86 approximately 570 feet east of Bridge A0590.
- **2.1** The Contractor shall use caution when working near any overhead lines and shall contact the utility companies at least two (2) weeks in advance if line protection and/ or additional road clearance will be necessary for equipment to access the construction site. The Contractor shall be responsible for any damage to the overhead lines. There will be no direct pay for compliance to the above specification. See contact information above.

# N. Adjust Water Meter

**1.0 Description.** This work shall consist of adjusting water meters that are within areas where either new sidewalks, curb ramps, approaches or pavements are to be constructed as shown on the plans. The contractor shall verify the type of frame and cover in the field before performing the work. The adjustments shall be made to match the final proposed grade.

# 2.0 Construction Requirements.

**2.1** Adjustments, extensions, and/or lowering of utility and any related excavation and backfill shall be constructed as approved by the Engineer. Adjustments shall conform to current requirements of utility owner.

# 3.0 Basis of Payment.

**3.1** All costs for materials, equipment, labor, and installation shall be included in the unit cost for:

Item No. 603-99.02, Adjust Water Meter, per each

**3.2** No direct payment will be made for any required hauling, cutting, joining, backfilling, or adjusting rings, or any other requirements necessary to fulfill this provision. No direct payment will be made to recover the cost of equipment, labor, materials, or time required to fulfill the above provision.

#### O. No Open Burning

**1.0** No open burning of any waste or materials resulting from land clearing, grubbing, demolition, or other operations would be permitted. All materials including solid wastes and regulated wastes (except for those retained) would be removed from the project site by a licensed contractor and disposed of or processed at an appropriately permitted facility. No additional payment will be made for compliance with this provision.

#### P. Waste Disposal

**1.0** The contractor will dispose of construction debris at permitted solid waste and construction/demolition landfills. The contractor will provide all necessary information for the disposal of solid wastes and construction wastes to the appropriate landfill operator, including any required testing of materials and completion of forms required by the MDNR.

**2.0** The contractor will ensure that materials such as whole tires, batteries, appliances, used oil, or other hazardous wastes generated during construction are recycled in accordance with applicable Federal and State regulations.

### Q. Fertilizing and Seeding

- **1.0** Any revisions or deviations from contract seed mixtures and applications must be approved by the Roadside Section of MoDOT's Maintenance Division
- **2.0** Fertilizing shall conform to Sec 801, and more specifically as follows:

Pounds per Acre				
Offset	Nitrogen (N)	Phosphorus (P <sub>2</sub> 0 <sub>5</sub> )	Potash (K₂0)	Effective Neutralizing Material
Beyond 30'	40	120	80	800
Within 30'	80	240	160	800

**3.0** Seeding shall conform to Sec 805. The following seed mixture shall be applied at the rate specified:

Beyond the First 30 Feet and Steeper Than 3:1 Slopes Pounds Pure Live Seed (PLS) per Acre			
Indiangrass	6 lbs.		
Big bluestem	4 lbs.		
Little bluestem	5 lbs.		
Sideoats grama	4 lbs.		
Switchgrass	2 lbs.		
Virginia or Canada rye	2 lbs.		
Tall dropseed	0.5 lbs.		
Purple prairie clover	0.5 lbs.		
Annual ryegrass	10 lbs.		
Perennial ryegrass	5 lbs.		
Red fescue	10 lbs.		
Redtop	1.5 lbs.		
Partridge pea	3 lbs.		
White clover	5 lbs.		
Gray headed coneflower	0.25 lbs.		
Black-eyed Susan	0.25 lbs.		
Oats	10 lbs.		
TOTAL 70 PLS lbs./acre			

Within the First 30 Feet Pounds Pure Live Seed (PLS) per Acre			
Tall Fescue	80 lbs.		
Annual ryegrass	10 lbs.		
Perennial ryegrass	6 lbs.		
White clover	6 lbs.		
Oats	10 lbs.		
TOTAL	112 PLS lbs./acre		

**4.0** All disturbed areas shall be mulched and conform to Section 802 and more specifically the contractor shall use vegetative mulch.

# 5.0 Basis of Payment.

- **5.1** No direct payment will be made for fertilizing or mulching seeded areas.
- **5.2** All cost incurred by the contractor for labor, equipment, and materials in compliance with the above requirements including, furnishing, and placing fertilizer and mulch shall be considered as completely covered by the unit price bid for:

Item 805-10.00A, Seeding - Cool Season Mixture, per acre

#### R. D'Monaco Property Construction Requirements

- **1.0** The contractor is required to provide access to D'Monaco Property at all times and must reconstruct only one of the property's two driveways at a time. Under no circumstances shall the contractor block ingress/egress to and from the business.
- **2.0** The contractor is to remove the driveway pavers for the D'Monaco Property in a manner as to not damage them. Once removed, the contractor is required to store them in a location as designated by the owner.
- **2.1** The contractor is to grade the driveways to top of aggregate base with the owner (D'Monaco) replacing the pavers at his discretion.
- **2.2** The contractor shall arrange with MoDOT and the property owner a period to remove existing driveway pavers to document physical condition of the pavers being removed.

#### 3.0 Basis of Payment.

**3.1** No direct payment will be made for complying with the conditions of this specification. All cost incurred by the contractor for labor, equipment, and materials in compliance with the above requirements shall be considered as completely covered by the unit price bid for:

Item No. 202-20.10, Removal of Improvements, per lump sum

#### S. D'Monaco Property Boundary Wall Removal

**1.0 Description.** The contractor is required to remove the designated D'Monaco Property boundary wall panels in such a manner as to not damage them. Once removed, the contractor is required to deliver the panels to the property owner at a place as designated by the property owner within the project limits.

#### 2.0 Basis of Payment.

**2.1** No direct payment will be made for complying with the conditions of this specification. All cost incurred by the contractor for labor, equipment, and materials in compliance with the above requirements shall be considered as completely covered by the unit price bid for

Item No. 202-20.10, Removal of Improvements, per lump sum

# T. Removal and Reinstallation of Entrance Gates

- **1.0 Description**. The contractor shall be responsible for all removing and reinstalling entrance gates located on tracts labeled 3 and 4 in the right of way plans. This work will be required to match revised entrance grading plans.
- **2.0 Construction Requirements.** This work shall conform to Section 607 of the Standard Specifications.
- **3.0 Basis of Payment.** No direct payment will be made to cover the costs for removing and reinstalling entrance gates. All costs for removing and reinstalling gates will be covered under:

Item No. 202-99.01, Removal and Reinstallation of Gates

# U. Gravity Block Retaining Wall

- **1.0 Description.** This work involves the construction of a strapless (no geogrid or tie backs) gravity block retaining wall along Route 86. The area is constrained by proximity to the lake, possibility of shallow rock, and having new fill behind the wall.
- **2.0 Material and Construction Requirements.** The contractor shall submit shop drawings prior to beginning construction. The contractor shall provide and install a gravity block wall system per the block manufacturer's instructions.
- **3.0 Basis of Payment.** The Unit bid price for Item number "Gravity Block Retaining Wall" shall include total costs for furnishing all design, labor, materials, equipment, and all necessary incidentals needed to complete the work. Pay item is paid for by the square foot of <u>exposed face</u> of wall.

Item No. 703-99.04, Gravity Block Retaining Wall, per square foot

#### V. Parcel 4 Provisions

**1.0 Description**. Contractor is to contact the property owner before construction. The following contacts are the individuals that the contractor can contact when construction begins:

Nancy Ormsbee: 417-894-2332 Jane Nixon: 417-818-7475 Jim Nixon: 471-988-9550

Contractor shall attempt to avoid damage / removal of trees within Temporary Construction Easement if possible. The Contractor will coordinate with the Engineer and to flag and evaluate trees to be removed. The Contractor and Engineer will evaluate trees marked before removal.

The Contractor shall coordinate with the Engineer and property owner regarding disposition of existing gate.

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

#### W. Right-of-Way Clearance

- **1.0 Description**. The right of way for this project has been acquired except for Parcel #1 Tim Freund, Parcel #2 D'Monaco Adventures (Tim Freund, Owner), Parcel #3 US Army Corps of Engineers and Tract #5 Rubert Diversified Investments.
- **1.1** The contractor shall inform itself of the location of this tract. No encroachment, storage of equipment and materials or construction on these tracts shall be permitted until notification by the engineer is given that these tracts have been acquired.
- **1.2** The contractor shall schedule its work utilizing the available right of way until this tract is cleared for construction, which is estimated to be September 30, 2021 for Parcels #1, 2, 3 and January 31, 2022 for Parcel #5. However, this date expressly is not a warranty by or contractually binding on the Commission as the date the two Tracts will be clear for construction. No encroachment, storage of equipment and materials or construction on these tracts shall be permitted until the contractor is notified by the engineer that these tracts have been acquired.
- **1.3** The contractor shall have no claim for damage for delay, disruption, interference or otherwise as a result of the unavailability of Parcels 1, 2, 3 and 5. The contractor may be given an extension of time upon proof of actual delay caused by the unavailability of these tracts as approved by the engineer.

#### X. Restrictions for Migratory Birds NJSP-16-06A

- **1.0 Description.** Swallows or other bird species protected by the Migratory Bird Treaty Act may be nesting under the bridge or bridges that will be repaired under this contract.
- **2.0 Restrictions.** To comply with the Migratory Bird Treaty Act, nests of protected species cannot be disturbed when active (eggs or young are present). Generally, nests are active between April 1 and July 31, but active nests can be present outside of these dates.

**3.0 Avoidance Measures.** The contractor shall not disturb active nests or destroy adults, eggs or young birds. In an effort to comply with the Migratory Bird Treaty Act, the contractor operations will be limited to the options established in the following sections.

- **3.1 Inactive or Partially Constructed Nests.** If nests are present and MoDOT determines that the nests are inactive or partially constructed, the contractor may remove the nests provided that the colony's inactive or partially constructed nests are completely removed by March 15 and the contractor maintains a nest free condition until the bridge work is complete. Dry removal methods shall be used when practicable. If dry removal is not practicable, hydro cleaning may be used if approved by the Engineer and only if water is free of blasting grit, chemicals, or detergents, and applied using pressure less than 5,000 PSI. Clean water such as that from municipal water treatment plants or wells shall be used. Use of source water from Waters of the State (i.e., streams or lakes), is allowable, if the appropriate methods to prevent the possible spread of invasive aguatic species are implemented.
- **3.2 Water and Equipment Used for Hydro cleaning.** Aquatic invasives such as zebra mussels and some algae species have infested several bodies of water in the United States and can be transported by vessels (barges, boats, tugs, tankers, etc.) and equipment (tanks, tubing, pumps, etc.) that have been used in areas that contain these invasive species. If equipment is not properly inspected and treated to prevent the spread of invasives, these species can be introduced into areas not currently known to have a population. These invasive species are detrimental to existing ecosystems and can outcompete native species. To assist in preventing the introduction and spread of aquatic invasive species through MoDOT projects in Missouri streams and lakes, the following precautions shall be followed.
- **3.2.1 Use of Water from Streams, Lakes or Ponds.** Contractors shall not use water for nest removal from streams, lakes or ponds, unless they have implemented appropriate methods to prevent the possible spread of invasive aquatic species. Water sources from municipal water treatment plants or wells may be used without following these measures provided the equipment to be used has not previously contained waters from streams, lakes, or ponds. If the equipment has previously contained waters from other streams or lakes, the following measures must be implemented prior to use.
- **3.2.1.1 Equipment Washing.** Prior to the use or re-use of equipment following any use with water from streams, lakes or ponds, all equipment shall be washed and rinsed thoroughly with hard spray (power wash) and hot (minimum 120° F) water, for at least one minute.
- **3.2.1.2 Equipment Treating or Drying.** Equipment shall be treated or dried in one of the following manners.
- **3.2.1.2.1** Equipment interior and/or other surfaces shall be treated with a 10% bleach solution to kill any aquatic nuisance species. This solution must also be run through all intake lines and hoses, to sterilize interior components. When chlorine treatment is used, all chlorine runoff from equipment washing must be collected and properly treated and/or disposed of in accordance with Sec 806.
- **3.2.1.2.2** Equipment interior and/or other surfaces shall be treated with  $140^{\circ}$  F water for a minimum of 10 seconds contact on all surfaces.  $140^{\circ}$  F water must also be run through all intake lines and hoses, to purge any standing water.

**3.2.1.2.3** Equipment shall be flushed of all non-municipal water, and dried thoroughly, in the sun before using in or transporting between streams and lakes. Dry times will depend on the season the equipment is being used. Equipment must dry a minimum of 7 days for June-September, 18 days for March-May; 18 days for October-November, and 30 days for December-February. The drying method should be reserved as a last resort option.

- **3.2.2** Prior to use of equipment, contractors shall provide the MoDOT inspector written documentation of the equipment's geographic origin (including the water body it was last used in), as well as defining the specified treatment method used to adequately ensure protection against invasive species. The written documentation will include a statement indicating the contractor is aware of these provisions and will also treat the equipment appropriately after completion of the project.
- **3.3 Active Nests.** The contractor may work on the bridge if active nests are present, as long as the work does not impact or disturb the birds and/or nests. At a minimum, work shall not be performed within 10 feet of an active nest; however, the contractor is responsible for ensuring their activities do not impact the nests, eggs, or young.
- **4.0 Additional Responsibilities.** If active bird nests remain after all reasonable avoidance measures have been taken, or if bird nests are observed during project construction, the contractor shall notify the Resident Engineer and contact the MoDOT Environmental Section (573-526-4778) to determine if there are other allowable options.

#### Y. Tree Clearing Restriction JSP-07-05A

**1.0 Description.** The project is within the known breeding range of the federally endangered Indiana bat. To avoid possible impacts to roosting Indiana bats, tree clearing will only be allowed between November 1 and March 31.

The contractor must obtain approval from MoDOT prior to initiating tree clearing activities.

**2.0 Basis of Payment.** No direct pay shall be provided for any labor, equipment, time, or materials necessary to complete this work. The contractor shall have no claim, or basis for any claim or suit whatsoever, resulting from compliance with this provision.

# Z. Recreational Boat Traffic Access During Construction

- **1.0 Description.** The Contractor is advised that Table Rock Lake is utilized extensively by recreational boat traffic. Restrictions to recreational boat travel will only be allowed for the safety and control of boat traffic as well as safety to the Contractor.
- **2.0 Allowable Recreational Boat Traffic Restrictions.** The Contractor shall plan work based on the following guidelines for allowable restrictions to recreational boat travel. Deviations from the following guidelines including request for additional restrictions to recreational boat travel must be approved by the Engineer.
- **2.1 Bridge Construction.** The Contractor shall maintain at all times one half of the usable water travel area for recreational boat traffic with the exception of time for existing bridge

removal. The Contractor may restrict recreational boat travel within 100 feet of barges and working platforms.

**2.2 Existing Bridge Removal.** The Contractor may close all recreational boat travel access during operations for removal of the existing bridge up to a maximum of 48 consecutive hours, at which time one half the usable water travel area shall be available for recreational boat traffic. 3 separate full closure operations are allocated for bridge removal.

**3.0 Notification Requirements.** The Contractor shall provide the Engineer and the Missouri State Water Patrol a minimum notice of 14 days before placing any restrictions on recreational boat travel. Notice shall include location of the proposed restriction, anticipated length of the restriction, and boat traffic control marking plan. Detail requirements for the Boat Traffic Control Plan are included separately in the project Job Special Provisions.

# 4.0 Method of Measurement and Basis of Payment.

There will be no direct pay for compliance with this provision.

# AA. <u>Boat Traffic Control Plan</u>

**1.0 Description.** This work shall consist of providing and maintaining a boat traffic control plan as shown on the drawings. The contractor is advised that special sign assemblies and buoys shall be required for the safety and control of boat traffic as well as safety to the contractor.

#### 2.0 Construction.

**2.1. Sign Requirements.** All special sign assemblies and buoys shall be anchored to the bottom of the lake as shown on the Missouri Standard Plans for Highway Construction. Each special sign assembly shall be equipped with two (2) flashing light units with amber lens.

The contractor will be required to furnishing, place as shown on the plans, relocate, maintain and/or replace these signs and buoys throughout the period of this contract and to remove them when the project is completed. The contractor shall be required to make any revisions requested by the Missouri State Water Patrol.

**2.2 Placement Requirements.** As part of the Contractor's work schedule submittal, a schedule for placement and removal of signs and buoys and an Application for Buoy Permit shall be submitted to the Missouri State Water Patrol. The placement and removal of these signs and buoys shall be subject to the approval of the Water Patrol and the Water Patrol shall be notified thirty (30) days prior to placement or removal of any signs or buoys. If the Contractor restricts boat traffic from more than one work area at a time, there shall be a minimum of 150 feet clear between restricted areas unless otherwise approved by the Water Patrol.

Any barge or working platform that may be used by the Contractor and is left in the work area during the hours of dusk to dawn shall be equipped with a flashing light unit with amber lens on each corner of each barge and/or working platform.

#### 3.0 Water Patrol Contact.

The address of the Water Patrol is:

Missouri State Water Patrol Attn: Capt. Mike Petlansky 1510 East Elm Street Jefferson City, Missouri 65101 Telephone: (573) 751-5071

#### 4.0 Method of Measurement and Basis of Payment.

All expenses incurred by the contractor by reason of their compliance with this provision shall be considered completely covered by the unit prices for the following items:

Item No.	Description	Unit
616-10.12	Buoys (BOATS KEEP OUT)	Each
616-10.13	Buoys (NO WAKE)	Each
616-10.14	Special Sign Assembly (BOATS KEEP OUT)	Each

#### BB. Contractor Required Activities for Staging Areas

- **1.0** The Contractor will be required to obtain all approvals, permits, contracts, and responsible for all fee payments for the construction and use of a staging area.
- **1.1** The Contractor shall provide documentation to the Engineer that all clearances and permits applicable under federal and state law have been obtained.
- **1.2** The Contractor shall obtain appropriate land disturbance permits from MDNR unless the staging area is already under permit with MDNR.
- **1.3** The Contractor shall provide right of access and use for any staging area to be utilized.
- **2.0** MoDOT will assist the Contractor with coordination activities with applicable federal and state agencies to obtain clearances and permits.
- **3.0 Basis of Payment.** No direct payment will be made to cover the costs for obtaining, clearing, and permitting any staging area.

# CC. <u>Contractor Furnished Surveying and Staking – SW</u>

In addition to the requirements of Section 627 of the Missouri Standard Specifications for Highway Construction, the following shall apply:

- **1.0 Description**. The contractor shall be responsible for all layout required on the project. This responsibility shall include, but not be limited to the following: Construction signing, transition milling, pavement marking, loop detectors, etc.
- **1.1** The above list is not all inclusive. The contractor shall have the primary responsibility for these operations. The contractor shall provide the Resident Engineer with a staking plan layout for approval prior to the installation of signs. The RE will also provide assistance during this layout provided a request is submitted to the RE or Construction Project Manager 48 hours in

advance. This will ensure that all permanently mounted traffic control devices remain consistent with District policy and avoid re-staking. If the contractor installs any signs without engineer approval, all costs associated with re-staking and/or relocation will be at the contractor's expense.

- **1.2** The intent of this provision is to increase the quality of our work zones and minimize negative impacts to the contractor's schedule that can result from delays in staking.
- **1.3** Any adjustments to the plan quantities or line numbers established in the contract shall be approved by the Engineer.
- **2.0 Basis of Payment.** No direct payment will be made to cover the costs associated with these additional requirements. All costs will be considered completely covered by the unit bid price submitted for Contractor Furnished Surveying and Staking.

# DD. Temporary Pavement Marking Removal

- **1.0 Description.** This work will include removing temporary pavement markings as shown on the traffic control plans.
- **2.0 Construction Requirements.** This work shall conform to Section 620.50 of the Standard Specifications, latest edition. In addition, the contractor will not be allowed to diamond grind; waterblasting or shotblasting are the preferred removal methods.
- **3.0 Basis of Payment.** Temporary pavement marking removal shall be incidental to the cost of each of the associated temporary pavement marking pay items shown on the contract plans.

#### EE. Temporary Long-Term Rumble Strips JSP-13-04C

**1.0 Description.** The work shall include furnishing, installing, maintaining, and removing long-term rumble strips, as shown in the plans, or as designated by the engineer.

#### 2.0 Material.

- **2.1** The long-term rumble strips shall be 10 feet to 12 feet in length, fabricated from a polymer material, and be orange in color.
- **2.2** The long-term rumble strips shall have a minimum width of 4 inches, but no greater than 6 inches. The long-term rumble strips shall have a minimum thickness of 0.25 inch, but no greater than 0.50 inch.
- **2.3** The long-term rumble strips shall have a pre-applied adhesive backing for securing to the asphalt or concrete roadway surface.
- **3.0 Construction.** Long-term rumble strips layout and spacing shall be in accordance with the plans or as approved by the engineer. The long-term rumble strips shall be installed and removed in accordance with manufacturer's recommendation. The contractor shall monitor and repair, and maintain,, if necessary, the long-term rumble strips until removed.

**3.1** Each set shall consist of five individual strips spaced ten to twelve feet on center.

- **3.2** The long-term rumble strips removal process shall not damage the roadway surface. If any damage occurs to the pavement during the removal of long-term rumble strips, the contractor shall replace or repair the damaged pavement at no cost to the Commission.
- **4.0 Method of Measurement.** Measurement of long-term rumble strips will be per each complete set of five strips.
- **4.0 Basis of Payment.** The accepted quantity of Temporary Long-Term Rumble Strips sets will be paid for at the contract unit price for 616-20.02, Temporary Long-Term Rumble Strips, per each set. The long-term rumble strips unit bid price shall include the cost of all labor, equipment, and materials to install, maintain, and remove the rumble strips.

# FF. Gravel A or Crushed Stone B

- **1.0 Description**. This work shall consist of furnishing and placing gravel or crushed stone surfacing for transitions at aggregate side roads and entrances upon completion of overlay and shoulder work. This work and material shall be in accordance with Section 310 except as follows.
- **2.0 Construction Requirements.** The contractor shall furnish, haul, and spread gravel or crushed stone surfacing to smooth up the transitions and eliminate any edge drop offs created at aggregate side roads and entrances created from the construction of shoulders as approved by the engineer.
- **3.0 Method of Measurement.** Measurement of material furnished for gravel or crushed stone will be made in accordance with Section 310.5.3, excluding any deductions for moisture.
- **4.0 Basis of Payment.** The accepted quantities of gravel or crushed stone will be paid for at the contract unit price, including all labor, equipment, and material costs required to fulfill the requirements of the special provision.

# GG. Damage to Existing Pavement, Shoulders, Side Roads, and Entrances

- **1.0 Description.** This work shall consist of repairing any damage to existing pavement, shoulders, side roads and entrances caused by contractor operations. This shall include, but is not limited to, damage caused by the traffic during contractor operations within the project limits including the work zone signing.
- **2.0 Construction Requirements.** Any cracking gouging, or other damage to the existing pavement, 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 or shoulder areas or damaged side roads or entrances as described above shall be made.

**4.0 Basis of Payment.** No payment will be made for repairs to existing pavement, shoulders, side roads or entrances damaged by contractor expenses.

# HH. Standard Alternate Technical Concepts JSP-15-06

- **1.0 Description.** The Standard Alternate Technical Concepts (ATC) process has been utilized on this project as defined in Engineering Policy Guide 147.1. Only those prequalified contractors who have met the requirements for participating in the standard ATC process will be allowed to submit an ATC bid. All other contractors who elect to bid on this call shall submit a bid using the advertised bidding documents. Any new ATC proposals will be considered as part of the Value Engineering Process after the project is awarded.
- **2.0 ATC Bidding Requirements.** Any bidder that has obtained an approved ATC proposal before the project was advertised for bids may elect to submit a bid using the ATC quantities. An EBS file will be provided to the ATC bidder, for use in preparing their bid, listing the quantities that have been agreed to by MoDOT and the contractor. A contractor shall only submit one bid per call or they will be declared irregular.
- **3.0 Submission of ATC Bids**. Approved ATC bidders shall submit their bid by the SharePoint site shared to each approved ATC bidder. The bid must be submitted and received by 11:00 a.m. the day of the letting.
- **4.0 Apparent Bids.** The ATC bids will be added to the apparent bids after the entire letting has been downloaded from the Bid Express.
- **5.0 Award of Bid.** If an ATC bid is awarded then the awarded ATC bid will be posted on MoDOT's web site. All other ATC bids will not be available.