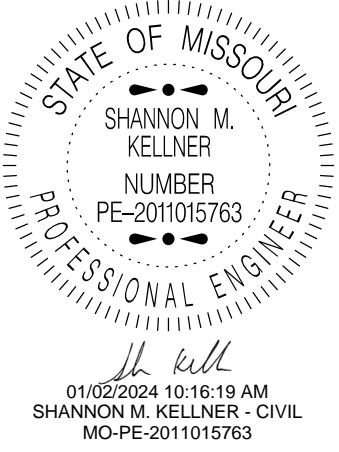


JOB SPECIAL PROVISIONS TABLE OF CONTENTS (ROADWAY)

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

A.	General - Federal JSP-09-02J	1
B.	Project Contact for Contractor/Bidder Questions	1
C.	Scope of Work	2
D.	Job Order Contract	2
E.	Procedures for Developing a Job Order	3
F.	Term of Contract	4
G.	Fixed Unit Price List	5
H.	Adjustment Factor	6
I.	Bidding the Adjustment Factor	7
J.	Contract Award	8
K.	Bonds	8
L.	Notice to Proceed	8
M.	Contract Time for Completion of Job Order	8
N.	Completing the Work	9
O.	Final Inspection and Acceptance of the Work	9
P.	Liquidated Damages for Failure or Delay in Beginning Work and/or Completing Work on Time	10
Q.	Contract Payments	10
R.	Work Zone Traffic Management	10
S.	Traffic Control Plan Types	13
T.	Work Plan and Schedule for Accomplishing Work	16
U.	Emergency Provisions and Incident Management	16
V.	Utilities	17
W.	Delay Provisions	17
X.	Mobilization	18
Y.	Pavement Marking	18
Z.	Eliminated Materials	18
AA.	Sample Job Orders	18
BB.	Supplemental Revisions JSP-18-01AA	21
CC.	Coldmilling and Asphalt Resurfacing Requirements	29
DD.	Damage to Existing Pavement	30
EE.	Previous Job Order Information	30
FF.	Railroad Requirements	31
GG.	Water Quality Control Measures in Consideration of Sensitive Species	31
HH.	Sensitive Streams or Waterbodies Near Project Area	32
II.	Environmental Guidance for Job Order Contracting Projects	32

Job No. J713516
Route I49
Various Counties

 <p>01/02/2024 10:16:19 AM SHANNON M. KELLNER - CIVIL MO-PE-2011015763</p>	<p>MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 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: J713516 VARIOUS COUNTIES, MO DATE PREPARED: 12/15/2023</p>
	<p>ADDENDUM DATE:</p>

Only the following items of the Job Special Provisions (Roadway) are
authenticated by this seal: ALL

JOB
SPECIAL PROVISIONS

A. General - Federal JSP-09-02J

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 www.modot.org 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 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 2023 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

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

Shannon Kellner, Project Contact
Southwest District
1057 E. Gaines Drive
Clinton, MO 64735
Telephone Number: 417-880-8046
Email: shannon.kellner@modot.mo.gov

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:

Matthew Koppitz, P.E., Resident Engineer
Southwest District
3025 E. Kearney St
Springfield, MO 65803
Office: 417-895-7600
Cell: 417-830-8440
Email: matthew.koppitz@modot.mo.gov

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

C. Scope of Work

1.0 The scope of work for this project is to provide asphalt pavement repair on an as needed basis in response to sudden occurrences, such as physical damage by the elements, or as a result of wear and tear. The work will be prescribed through individual Job Orders issued to the contractor by the engineer for each work location.

2.0 Work prescribed through individual Job Orders will be limited to 6 miles in length or less, as measured along the travelway, unless otherwise mutually agreed upon between the contractor and the engineer. The work location limits shall be designated by the engineer in the Job Order and as stated herein. A work location may include multiple repair areas. For divided highways, the work location shall be limited to one direction per Job Order.

3.0 The project limits for the work will be along Route I49 in Vernon, Barton, and Jasper Counties from Route 54 in Vernon County to I-44 in Jasper County.

4.0 Job Orders will only be issued for work to be performed from April 1 to November 30, unless otherwise mutually agreed upon between the contractor and the engineer.

5.0 The Commission is not bound to issue a minimum or maximum number of Job Orders during the contract term. It is the intent, however, to meet the anticipated budget, as noted elsewhere within this proposal. 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 engineer will identify the required work at an individual work location in collaboration with the contractor at a Joint Scope Meeting. The engineer will provide the contractor with a draft Detailed Scope of Work which the contractor shall review. Once the detailed Scope of Work is

agreed upon, the engineer will issue a Job Order to the contractor. At any given time, the contractor may be performing more than one Job Order.

3.0 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.

4.0 Definitions.

4.1 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.

4.2 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.

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

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

4.5 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. Procedures for Developing a Job Order

1.0 Initiation of a Job Order. The engineer will notify the contractor of a potential Job Order by issuing a Notice of Joint Scope Meeting. The notification will be issued by electronic mailing, unless the engineer approves other arrangements. The contractor shall confirm receipt of all job orders by the same means as issued.

1.1 The contractor shall attend the Joint Scope Meeting and be prepared to discuss, at a minimum:

- a. The general scope of the work;
- b. Existing conditions, presence of waterways, wetlands, or other natural resources;
- c. Presence of hazardous materials;
- d. Methods and alternative for accomplishing the work;
- e. Access to the site;
- f. Staging area availability/location;
- g. Requirements for catalog cuts, technical data, samples and shop drawings;
- h. Requirements for professional services, including sketches, drawings, and specifications;
- i. Hours of operation;
- j. Anticipated working days and schedule;

- k. Liquidated damages;
- l. Specific quality requirements for equipment and material;
- m. List of anticipated Subcontractors and Material Suppliers.

1.2 Upon completion of the joint scoping process, the engineer will prepare a draft detailed Scope of Work referencing any sketches, drawings, photographs, and specifications required to document accurately the work to be accomplished. The contractor shall review the proposed detailed Scope of Work and request any desired changes or modifications thereto. When an acceptable detailed Scope of Work has been completed, the engineer will issue a Draft Job Order.

1.3 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 to perform any Job Order or any work identified in a Job Order, the contractor may be considered to be in default in accordance with Sec 108.

2.0 Preparation of The Job Order. The engineer will prepare a Draft Job Order and submit the order to the contractor for final review. The contractor and the engineer will jointly review the Draft Job Order and finalize the order. 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.

2.1 When the engineer and contractor have agreed to the scope of work and Fixed Cost and Non-Fixed Cost tasks to be performed, the engineer will finalize the official Job Order and submit a signed Job Order for the contractor to review and sign. The affixed signatures by the engineer and the contractor shall bind the Job Order. If the contractor is not clear or in disagreement with the terms of the Job Order he shall NOT sign the Job Order, but shall work with the engineer to clear up any discrepancies in the work to be done. If the contractor fails to execute the Job Order, the contractor may be considered to be in default in accordance with Sec 108.

3.0 The Commission reserves the right to cancel or reject a Job Order for any reason. The Commission also reserves the right not to 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.

4.0 Job Order Issuance. The Job Order will be signed by the engineer and delivered to the contractor. The Job Order will reference the Detailed Scope of Work and set forth the amount to be paid and the time to complete the work.

5.0 Notice to Proceed. Each Job Order 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 within 14 calendar days after the job order is issued.

5.1 The contractor shall provide 5-days notification prior to start of Job Orders.

F. Term of Contract

1.0 The term of this contract shall be for the period commencing May 12, 2024 and shall end May 11, 2025.

1.1 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.

2.0 The contract may be extended under the original terms and contract prices for the period commencing May 12, 2025 and shall end May 11, 2026 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 December 1 of the current contract year. The contractor shall provide written notification of acceptance or rejection of the extension of this contract no later than January 1 of the current contract year. 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. Fixed Unit Price List

1.0 Description. A fixed unit price list containing unit prices associated with asphalt 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 Asphalt Pavement Repair Job Orders.

MISC. TRAFFIC CONTROL ITEMS			
Item Number	Description	Unit	Fixed Unit Price
6169902	MISC. ADDITIONAL TRUCK MOUNTED ATTENUATOR (TMA)	EA	\$750.00
6169904	MISC. ADDITIONAL CONSTRUCTION SIGNS	SF	\$3.00
6169902	MISC. ADDITIONAL CHANNELIZER (TRIMLINE)	EA	\$9.00
6169902	MISC. ADDITIONAL TYPE III MOVEABLE BARRICADE	EA	\$75.00
6169902	MISC. ADDITIONAL DIRECTIONAL INDICATOR BARRICADE	EA	\$18.75
6169902	MISC. ADDITIONAL FLASHING ARROW PANEL	EA	\$390.00
6169902	MISC. SEQUENTIAL FLASHING WARNING LIGHT	EA	\$50.00
6169902	MISC. ADDITIONAL CMS (CONTRACTOR FURNISHED/RETAINED)	EA	\$1,200.00
6169902	SINGLE LANE CLOSURE	EA	\$3,000.00
6169902	DOUBLE LANE CLOSURE	EA	\$3,900.00
6169902	INTERIOR LANE CLOSURE	EA	\$3,900.00
6169902	TRIPLE LANE CLOSURE	EA	\$4,500.00
6169902	RAMP CLOSURE	EA	\$1,800.00
6169902	TEMPORARY TRAFFIC CONTROL SINGLE LANE SHIFT	EA	\$1,000.00
6169902	MISC. 1-LANE 2-WAY OPERATION W/ FLAGGERS	EA	\$3,000.00

ASPHALT PAVEMENT ITEMS

<u>Item Number</u>	<u>Description</u>	<u>Unit</u>	<u>Fixed Unit Price</u>
4019910	SHOULDER MIX (15-100 TONS) (OVER 9' WIDE)	TONS	\$85.00
4019910	SHOULDER MIX (15-100 TONS) (4.1-9' WIDE)	TONS	\$102.00
4019910	SHOULDER MIX (15-100 TONS) (2-4' WIDE)	TONS	\$122.00
4019910	SHOULDER MIX (100.1-500 TONS) (OVER 9' WIDE)	TONS	\$66.50
4019910	SHOULDER MIX (100.1-500 TONS) (4.1-9' WIDE)	TONS	\$79.00
4019910	SHOULDER MIX (100.1-500 TONS) (2-4' WIDE)	TONS	\$94.00
4019910	SHOULDER MIX (500.1-1000 TONS) (OVER 9' WIDE)	TONS	\$60.00
4019910	SHOULDER MIX (500.1-1000 TONS) (4.1-9' WIDE)	TONS	\$72.00
4019910	SHOULDER MIX (500.1-1000 TONS) (2-4' WIDE)	TONS	\$85.00
4019910	SHOULDER MIX (over 1000 TONS) (OVER 9' WIDE)	TONS	\$56.00
4019910	SHOULDER MIX (over 1000 TONS) (4.1-9' WIDE)	TONS	\$67.00
4019910	SHOULDER MIX (over 1000 TONS) (2-4' WIDE)	TONS	\$80.00
4039910	SP125C (70-22) (15-100 TONS) (OVER 9' WIDE)	TONS	\$102.00
4039910	SP125C (70-22) (15-100 TONS) (4.1-9' WIDE)	TONS	\$122.00
4039910	SP125C (70-22) (15-100 TONS) (2-4' WIDE)	TONS	\$146.00
4039910	SP125C (70-22) (100.1-500 TONS) (OVER 9' WIDE)	TONS	\$84.00
4039910	SP125C (70-22) (100.1-500 TONS) (4.1-9' WIDE)	TONS	\$100.00
4039910	SP125C (70-22) (100.1-500 TONS) (2-4' WIDE)	TONS	\$120.00
4039910	SP125C (70-22) (500.1-1000 TONS) (OVER 9' WIDE)	TONS	\$74.00
4039910	SP125C (70-22) (500.1-1000 TONS) (4.1-9' WIDE)	TONS	\$88.00
4039910	SP125C (70-22) (500.1-1000 TONS) (2-4' WIDE)	TONS	105.00
4039910	SP125C (70-22) (over 1000 TONS) (OVER 9' WIDE)	TONS	\$71.00
4039910	SP125C (70-22) (over 1000 TONS) (4.1-9' WIDE)	TONS	\$85.00
4039910	SP125C (70-22) (over 1000 TONS) (2-4' WIDE)	TONS	\$102.00
4071005	TACK COAT	GAL	\$3.70
6133020	FURNISHING & PLACING BIT. MATERIAL FOR CLASS C PARTIAL DEPTH PAVEMENT REPAIR	TONS	\$150.00
6133021	REMOVAL FOR CLASS C PARTIAL DEPTH PAVEMENT REPAIR	SY	\$50.00
6189902	MOBILIZATION COLDMILL & RESURFACING (15-1000 TONS)	EA	\$5,000.00
6189902	MOBILIZATION COLDMILL & RESURFACING (OVER 1000 TONS)	EA	\$3,500.00
6189902	MOBILIZATION RESURFACING ONLY (15-1000 TONS)	EA	\$4,450.00
6189902	MOBILIZATION RESURFACING ONLY (OVER 1000 TONS)	EA	\$2,750.00
6189902	MOBILIZATION MATERIAL TRANSFER VEHICLE	EA	\$2,700.00
6209902	TEMPORARY RAISED PAVEMENT MARKER	EA	\$2.25
6229905	MILLING PER SY (< 2")	SY	\$2.60
6229905	MILLING PER SY (2"-4")	SY	\$2.90
6229905	MILLING PER SY (4"-6")	SY	\$3.20
6229905	MILLING PER SY (>6")	SY	\$8.00
6229905	MODIFIED MILLING/DEPTH TRANSITION	SY	\$9.00

H. 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.

I. Bidding the Adjustment Factor

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 this is a contract pay item 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.

J. 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 \$150,000 dollars. If the contract is extended in accordance with the TERM OF CONTRACT JSP, the anticipated budget will be no more than 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 15% and Nighttime hours is 85%. 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.

K. Bonds

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

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

L. 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.

M. 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.

N. 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.

O. 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 notify the engineer by phone or electronic mailing, and the engineer will perform an inspection. If the engineer determines all work required by the contract has been satisfactorily completed, the engineer will make the acceptance for maintenance and notify the contractor in writing of the date of acceptance for maintenance.

105.10.7.1 Work determined to be unsatisfactory by the engineer and not accepted shall be corrected to acceptable standards at the contractor's sole cost. All items that are unsatisfactory shall be corrected within the specified working days for each job order. If needed for correction of unsatisfactory work, the contractor will be given an extension of contract time in an amount equal to the number of working days remaining in the job order at the time the engineer was notified for inspection. No contract time extension will be made for notification made prior to

completion of the work. 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, 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.

P. Liquidated Damages for Failure or Delay in Beginning Work and/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.

Q. Contract Payments

1.0 The contractor shall request payment by submitting an invoice to the engineer. The invoice shall be for the job orders completed and shall be itemized by job order number. A summary of all contract items used, contract unit prices, and total cost shall be included with the invoice.

1.1 The engineer will make payment estimates for the Job Orders completed and final inspected and the value thereof at the price established in the Job Order, including any necessary adjustments. The payment estimates will include deductions from the contractor's invoice for any liquidated damages applicable to any of the Job Orders.

1.2 Material Allowance. No material allowance will be made for this contract.

R. 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 mile (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 mile (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 six major holiday weekends: New Year's Day, Memorial Day, Independence 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 9:00 a.m. on the first working day subsequent to the holiday, unless otherwise designated by the engineer.

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 4:30 a.m.
Double Lane Closure	9:30 p.m. to 4:30 a.m.
Triple Lane Closure	10:00 p.m. to 4:30 a.m.
Interior Lane Closure	9:30 p.m. to 4:30 a.m.
Ramp Closure	Hours and days as approved by the engineer
One Lane Two Way Operation with Flagger	Hours and days as approved by the engineer

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 slow down 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.

S. 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 Single Lane Closure. A single lane closure shall be performed by furnishing, installing, and removing the following set of traffic control devices:

2 each	Road Work Ahead
2 each	Right (Left) Lane Closed Ahead
2 each	Reduced Speed Limit Ahead (Symbol)
1 each	Right (Left) Lane Closed
1 each	Merge with Right (Left) Arrow
2 each	Speed Limit XX MPH
2 each	Work Zone (Plaque)
2 each	Speed Limit XX (Normal Speed)
14 each	Directional Indicator Barricade
30 each	Channelizer (Trim Line)
2 each	Flashing Arrow Panel (One Truck Mount for TMA)
1 each	Truck Mounted Attenuator
1 each	Changeable Message Sign (Contractor Furnished / Retained)

2.2 Double Lane Closure. The contractor shall obtain approval from the engineer prior to any double lane closure. A double lane closure shall be performed by furnishing, installing, and removing the following set of traffic control devices:

2 each	Road Work Ahead
2 each	2 Right (Left) Lanes Closed Ahead
2 each	Reduced Speed Limit Ahead (Symbol)
2 each	Right (Left) Lane Closed
2 each	Merge with Right (Left) Arrow
4 each	Speed Limit XX MPH
4 each	Work Zone (Plaque)
2 each	Speed Limit XX (Normal Speed)
28 each	Directional Indicator Barricade
100 each	Channelizer (Trim Line)
3 each	Flashing Arrow Panel (One Truck Mount for TMA)
1 each	Truck Mounted Attenuator

1 each Changeable Message Sign (Contractor Furnished / Retained)

2.3 Interior Lane Closure. The contractor shall obtain approval from the engineer prior to any interior lane closure. An interior lane closure shall be performed by furnishing, installing, and removing the following set of traffic control devices:

2 each Road Work Ahead
2 each Right (Left) Lane Closed Ahead
2 each Reduced Speed Limit Ahead (Symbol)
1 each Right (Left) Lane Closed
1 each Merge with Right (Left) Arrow
2 each Speed Limit XX MPH
2 each Work Zone (Plaque)
1 each Center Lane Closed Ahead
1 each Right (Left) Reverse Curve (Symbol)
2 each Speed Limit XX (Normal Speed)
14 each Directional Indicator Barricade
100 each Channelizer (Trim Line)
3 each Flashing Arrow Panel (One Truck Mount for TMA)
1 each Truck Mounted Attenuator
1 each Changeable Message Sign (Contractor Furnished / Retained)

2.4 Triple Lane Closure. The contractor shall obtain approval from the engineer prior to any triple lane closure. A triple lane closure shall be performed by furnishing, installing, and removing the following set of traffic control devices:

2 each Road Work Ahead
2 each 3 Right (Left) Lanes Closed Ahead
2 each Reduced Speed Limit Ahead (Symbol)
3 each Right (Left) Lane Closed
3 each Merge with Right (Left) Arrow
2 each Speed Limit XX (Normal Speed)
42 each Directional Indicator Barricade
100 each Channelizer (Trim Line)
4 each Flashing Arrow Panel (One Truck Mount for TMA)
1 each Truck Mounted Attenuator
1 each Changeable Message Sign (Contractor Furnished / Retained)

2.5 Ramp Closure. The contractor shall obtain approval from the engineer a minimum of five days prior to any ramp closure. A ramp closure shall be performed by furnishing, installing, and removing the following set of traffic control devices. Uncovering and covering any detour trailblazing placards furnished and installed by others is included in the work.

2 each Road Work Ahead
2 each Ramp Closed Ahead
2 each Reduced Speed Limit Ahead (Symbol)
2 each Detour Ahead
2 each Speed Limit XX MPH
2 each Work Zone (Plaque)
1 each Road Closed
2 each Speed Limit XX (Normal Speed)

14 each	Directional Indicator Barricade
40 each	Channelizer (Trim Line)
2 each	Flashing Arrow Panel (One Truck Mount for TMA)
1 each	Truck Mounted Attenuator
2 each	Changeable Message Sign (Contractor Furnished / Retained)
3 each	Type III Movable Barricade

2.6 One-Lane Two-Way Operation with Flaggers. A minimum of two flaggers will be required to direct traffic. Additional flaggers may be required when working at intersecting streets or ramps as directed by the engineer. No direct payment will be made for flaggers. "One-Lane Two-Way Operation with Flaggers", shall include furnishing, 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	Be Prepared To Stop
2 each	Flagger (Symbol)

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 Temporary Traffic Control Single Lane Shift. When a Single Lane Closure is used for work on a divided highway, and repairs are necessary in both the right and left lanes within the same log mile range and direction, payment for the Temporary Traffic Control Single Lane Shift shall be paid for at the fixed unit price.

6.0 Method of Measurement and Basis of Payment.

6.1 Measurement of lane closures will be based on 3-mile segments. If the work within a Job Order is confined to 3 continuous miles or less, payment will be made for one (1) lane closure. If work extends beyond 3 miles, payment will be made for two (2) lane closures. The maximum length allowed for a lane closure shall be three (3) miles, but may be less in order to comply with the Work Zone Traffic Management provision. The maximum number of lane closures to be paid per Job Order is two (2). 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. Ramp Closures will be paid for each ramp that is closed. The accepted quantity of each lane closure will be paid for at the fixed unit price for:

Item 616-99.02	Single Lane Closure	Each
Item 616-99.02	Double Lane Closure	Each
Item 616-99.02	Interior Lane Closure	Each
Item 616-99.02	Triple Lane Closure	Each
Item 616-99.02	Ramp Closure	Each
Item 616-99.02	Temporary Traffic Control Single Lane Shift	Each

Item 616-99.02 One-Lane Two-Way Operation with Flaggers Each

multiplied by the Adjustment Factor, as mutually agreed upon in the Job Order.

6.2 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.

T. 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.

U. 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 situation within the project limits.

Missouri Highway Patrol -Troop D	(417) 895-6868
MoDOT Customer Service	(417) 895-7600
MoDOT Incident Management	(417) 864-1160
City of Nevada Police	(417) 448-5171
City of Nevada Fire	(417) 448-5105
City of Lamar Police	(417) 682-3546
City of Lamar Fire	(417) 682-5512
City of Carthage Police	(417) 237-7200
City of Carthage Fire	(417) 237-7100
Vernon County Sheriff	(417) 283-4400
Barton County Sheriff	(417) 682-5515
Jasper County Sheriff	(417) 358-8177

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.

V. 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 is 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.

W. 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.

X. Mobilization

Delete Sec 618.2 and substitute the following:

618.2 Method of Measurement and Basis of Payment. Mobilization will be measured and paid for once on each Job Order regardless of the number of work days required to complete the work at a specific work location. If the engineer determines a Material Transfer Vehicle (MTV) is required for the work, then an additional payment for MTV Mobilization will be paid for once on each Job Order regardless of the number of work days required to complete the work at a specific work location. A work location is defined in Section C, Scope of Work of these Job Special Provisions. Payment will be made for mobilization as follows:

Item 618-99.02	Mobilization – Coldmilling and Resurfacing (15-1000 tons)	Each
Item 618-99.02	Mobilization – Coldmilling and Resurfacing (Over 1000 tons)	Each
Item 618-99.02	Mobilization – Resurfacing Only (15-1000 tons)	Each
Item 618-99.02	Mobilization – Resurfacing Only (Over 1000 tons)	Each
Item 618-99.02	Mobilization – Material Transfer Vehicle	Each

Y. Pavement Marking

Delete Sec 620.2.5 and substitute the following:

620.2.5 Pavement Marking for Milling and Resurfacing Operations. The contractor will **not** be responsible for placing and maintaining pavement marking on pavement undergoing milling or resurfacing operations unless mutually agreed upon in the Job Order.

Z. 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.

AA. Sample Job Orders

1.0 The following are example Job Orders intended to be illustrations that may be used as a guide for formulating the bid of the Adjustment Factor. For each example Job Order, the appropriate items that would be used and the quantities are computed based upon the sample work that would be completed in the Job Order. The contractor shall be reminded these are Job

Order samples and the quantity totals in actual Job Orders, if issued, may be more or less than that depicted below or be totally different from the samples illustrated.

Asphalt and coldmilling unit bid item numbers will vary depending on the quantity range for each Job order sample.

1.1 Job Order Sample 1: Repair Area = 12' X 150', Coldmill and Resurface - 8" Thick, Nighttime Repair.

Item Description	Fixed Unit Price	Quantity	Price
SP125C (PG70-22) Per Ton (15-100 Tons) (4.1-9 feet wide)	\$122.00	87.6 Tons	\$10,687.20
Tack Coat	\$3.70	10 Gal	\$37.00
Mobilization – Coldmilling & Resurfacing (15-1000 tons)	\$5,000.00	1 Each	\$5,000.00
Milling Per SY (Greater than 6 In. Thick)	\$7.20	200 SY	\$1,440.00
		Subtotal:	\$17,164.20
Adjustment Factor	1.200		
		TOTAL:	\$20,597.04

1.2 Job Order Sample 2: Repair Area = 2 - 24' X 600' (1200' total), Coldmill and Resurface – 2" to 1.75" Thick. Each end of a bridge to repair bridge approaches.

Item Description	Fixed Unit Price	Quantity	Price
SP125C (PG70-22) Per Ton (100.1-500 Tons) (Over 9 feet wide)	\$84.00	425.6 Tons	\$35,750.40
Tack Coat	\$3.70	160 Gal	\$592.00
Mobilization – Coldmilling & Resurfacing (15-1000 tons)	\$5,000.00	1 Each	\$5,000.00
Milling Per SY (2 In. or less Thick)	\$2.10	3200 SY	\$6,720.00
		Subtotal:	\$48,062.40
Adjustment Factor	1.150		
		TOTAL:	\$55,271.76

1.3 Job Order Sample 3: Repair Area = 8 - 10' X 250', Shoulder Coldmill and Resurface - 3" Thick. 8 repairs on the outside shoulder in a 2 mile segment of roadway.

Item Description	Fixed Unit Price	Quantity	Price
SHLD MIX Per Ton (100.1-500 Tons) (2-4 feet wide)	\$94.00	373.3 Tons	\$35,090.20
Tack Coat	\$3.70	180 Gal	\$666.00
Mobilization – Coldmilling & Resurfacing (15-1000 tons)	\$5,000.00	1 Each	\$5,000.00
Milling Per SY (2 In. to 4 In. Thick)	\$2.40	2222 SY	\$5,332.80
		Subtotal:	\$46,089.00
Adjustment Factor	1.150		

		TOTAL:	\$53,002.35
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1.4 Job Order Sample 4: Repair Area = 24' X 1320', Coldmill and Resurface - 5.75" Thick, Nighttime Repair.

Item Description	Fixed Unit Price	Quantity	Price
SP125C (PG70-22) Per Ton (Over 1000 Tons) (Over 9 feet wide)	\$71.00	1878.1 Tons	\$133,345.10
Tack Coat	\$3.70	180 Gal	\$666.00
Mobilization – Coldmilling & Resurfacing (Over 1000 tons)	\$3,500.00	1 Each	\$3,500.00
Milling Per SY (4 In. to 6 In. Thick)	\$2.70	3520 SY	\$9,504.00
		Subtotal:	\$147,015.10
Adjustment Factor	1.200		
		TOTAL:	\$176,418.12

1.5 Job Order Sample 5: Repair Area = 24' X 1 mile, Resurfacing Only – 1.75" Thick, Normal Hours Repair.

Item Description	Fixed Unit Price	Quantity	Price
SP125C (PG70-22) Per Ton (Over 1000 Tons) (Over 9 feet wide)	\$71.00	1348.4 Tons	\$95,736.40
Tack Coat	\$3.70	710 Gal	\$2,627.00
Mobilization – Resurfacing Only (Over 1000 tons)	\$2,750.00	1 Each	\$2,750.00
		Subtotal:	\$101,113.40
Adjustment Factor	1.150		
		TOTAL:	\$116,280.41

1.6 Job Order Sample 6: Repairs were made on the roadway for three different widths (4', 6', 12'). All repairs used SP125 (70-22). All required milling. Repair Area = 2" deep X 12' wide – 800 tons, 3" deep X 4' wide – 90 tons, 3" deep x 6' wide- 200 tons, Total 1,090 tons. Normal Hours Repair.

Item Description	Fixed Unit Price	Quantity	Price
SP125C (70-22) (500.1-1000 tons) (Over 9 feet wide)	\$74.00	800 Tons	\$59,200.00
SP125C (70-22) (15-100 tons) (2-4 feet wide)	\$146.00	90 Tons	\$13,140.00
SP125C (70-22) (100.1-500 tons) (4.1-9 feet wide)	\$100.00	200 Tons	\$20,000.00
Milling per SY (2"-4")	\$2.90	9,262SY	\$26,859.80
Tack Coat	\$3.70	930 Gal	\$3,441.00
Mobilization Coldmill & Resurfacing (Over 1000 tons)	\$3,500.00	1 Each	\$3,500.00
		Subtotal:	\$126,140.80

Adjustment Factor	1.150		
		TOTAL:	\$145,061.92

BB. Supplemental Revisions JSP-18-01AA

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.

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.

Ground Tire Rubber (GTR) Dry Process Modification of Bituminous Pavement Material

1.0 Description. This work shall consist of the dry process of adding ground tire rubber (GTR) to modify bituminous material to be used in highway construction. Existing GTR requirements in Section 1015 pertain to the wet process method of GTR modification that blends GTR with the asphalt binder (terminal blending or blending at HMA plant). The following requirements shall govern for dry process GTR modification. The dry process method adds GTR as a fine aggregate or mineral filler during mix production. All GTR modified asphalt mixtures shall be in accordance with Secs 401, 402, or 403 as specified in the contract; except as revised by this specification.

2.0 Materials. The contractor shall furnish a manufacturer's certification to the engineer for each shipment of GTR furnished stating the name of the manufacturer, the chemical composition, workability additives, and certifying that the GTR supplied is in accordance with this specification.

2.1 Product Approval. The GTR product shall contain a Trans-Polyoctenamer (TOR) added at 4.5 % of the weight of the crumb rubber or an engineered crumb rubber (ECR) workability additive that has proven performance in Missouri. Other GTR additives shall be demonstrated and proven

prior to use such as a five-year field performance history in other states or performance on a federal or state-sanctioned accelerated loading facility.

2.2 General. GTR shall be produced from processing automobile or truck tires by ambient or cryogenic grinding methods. Heavy equipment tires, uncured or de-vulcanized rubber will not be permitted. GTR shall also meet the following material requirements:

Table 1 – GTR Material Properties		
Property	Test Method	Criteria
Specific Gravity	ASTM D1817	1.02 to 1.20
Metal Contaminates	ASTM D5603	≤ 0.01%
Fiber Content	ASTM D5603	≤ 0.5%
Moisture Content	ASTM D1509	≤ 1.0%*
Mineral Filler	AASHTO M17	≤ 4.0%

*Moisture content of the GTR shall not cause foaming when combined with asphalt binder and aggregate during mix production

2.3 Gradation. The GTR material prior to TOR or ECR workability additives shall meet the following gradation and shall be tested in accordance with ASTM D5603 and ASTM D5644.

Table 2 – GTR Gradation	
Sieve	Percent Passing by Weight
No. 20	100
No. 30	98-100
No. 40	50-70
No. 100	5-15

3.0 Delivery, Storage, and Handling. The GTR shall be supplied in moisture-proof packaging or other appropriate bulk containers. GTR shall be stored in a dry location protected from rain before use. Each bag or container shall be properly labeled with the manufacturer’s designation for the GTR and specific type, mesh size, weight and manufacturer’s batch or Lot designation.

4.0 Feeder System. Dry Process GTR shall be controlled with a feeder system using a proportioning device that is accurate to within ± 3 percent of the amount required. The system shall automatically adjust the feed rate to always maintain the material within this tolerance and shall have a convenient and accurate means of calibration. The system shall provide in-process monitoring, consisting of either a digital display of output or a printout of feed rate, in pounds per minute, to verify feed rate. The supply system shall report the feed in 1-pound increments using load cells that will enable the user to monitor the depletion of the GTR. Monitoring the system volumetrically will not be allowed. The feeder shall interlock with the aggregate weight system and asphalt binder pump to maintain correct mixture proportions at all production rates.

Flow indicators or sensing devices for the system shall be interlocked with the plant controls to interrupt mixture production if GTR introduction rate is not within ± 3 percent. This interlock will immediately notify the operator if GTR introduction rate exceeds introduction tolerances. All plant production will cease if the introduction rate is not brought back within tolerance after 30 seconds.

When the interlock system interrupts production and the plant has to be restarted, upon restarting operations; the modifier system shall run until a uniform feed can be observed on the output display. All mix produced prior to obtaining a uniform feed shall be rejected.

4.1 Batch Plants. GTR shall be added to aggregate in the weigh hopper. Mixing times shall be increased per GTR manufacturer recommendations.

4.2 Drum Plants. The feeder system shall add GTR to aggregate and liquid binder during mixing and provide sufficient mixing time to produce a uniform mixture. The feeder system shall ensure GTR does not become entrained in the exhaust system of the drier or plant and is not exposed to the drier flame at any point after introduction.

5.0 Testing During Mixture Production. Testing of asphalt mixes containing GTR shall not begin until at least 30 minutes after production or per additive supplier's recommendation.

6.0 Construction Requirements. Mixes containing GTR shall have a target mixing temperature of 325 F or as directed by the GTR additive supplier. The additive supplier's recommendations shall be followed to allow for GTR binder absorption/reaction. This may include holding mix in the silo to allow time for binder to absorb into the GTR. Rolling operations may need to be modified.

7.0 Mix Design Test Method Modification. A formal mixing procedure from the additive supplier shall be provided to the contractor and engineer that details the proper sample preparation, including blending GTR with the binder or other additives. Samples shall be prepared and fabricated in accordance with this procedure by the engineer and contractor throughout the duration of the project.

8.0 Mix design Volumetrics. Mix design volumetric equations shall be modified as follows:

8.1 Additional virgin binder added to offset GTR absorption of binder shall be counted as part of the mix virgin binder

8.2 GTR shall be included as part of the aggregate when calculating VMA of the mix.

8.2.1 GTR SPG shall be 1.15

8.3 Mix G_{sb} used to determine VMA shall be calculated as follows:

$$G_{sb (JMF)} = \frac{(100 - P_{bmv})}{\left(\frac{P_s}{G_{sb}} + \frac{P_{GTR}}{G_{GTR}}\right)}$$

where:

$G_{sb (JMF)}$ = bulk specific gravity of the combined aggregate including GTR

P_{bmv} = percent virgin binder by total mixture weight

P_s = percent aggregate by total mixture weight (not including GTR)

P_{GTR} = percent GTR by total mixture weight

G_{sb} = bulk specific gravity of the combined aggregate (not including GTR)

G_{GTR} = GTR specific gravity

8.4 G_{se} shall be calculated as follows:

$$G_{se} = \frac{(100 - P_b - P_{GTR})}{\left(\frac{100}{G_{mm}} - \frac{P_b}{G_b} - \frac{P_{GTR}}{G_{GTR}}\right)}$$

8.5 P_{be} shall be calculated as follows:

$$P_{be} = P_b - \frac{P_{ba}}{100} * (P_s + P_{GTR})$$

9.0 Minimum GTR Amount. The minimum dosage rate for GTR shall be 5 % by weight of total binder for an acceptable one bump grade or 10 % by weight of total binder for an acceptable two bump grade as detailed in the following table. Varying percentage blends of GTR and approved additives may be used as approved by the engineer with proven performance and meeting the specified requirements of the contract grade.

Contract Binder Grade	Percent Effective Virgin Binder Replacement Limits	Required Virgin Binder Grade	Minimum GTR Dosage Rate
PG 76-22	0 - 20	PG 70-22	5 %
		PG 64-22	10 %
PG 70-22	0 - 30	PG 64-22	5 %
		PG 58-28	10 %
PG 64-22	0 - 40*	PG 58-28	5 %
		PG 52-34	10 %
PG 58-28	0 - 40*	PG 52-34	5 %
		PG 46-34	10 %

* Reclaimed Asphalt Shingles (RAS) may be used when the contract grade is PG 64-22 or PG 58-28. RAS replacement shall follow the 2 x RAS criteria when calculating percent effective binder replacement in accordance Sec 401.

Delete Sec 403.19.2 and substitute the following:

403.19.2 Lots. The lot size shall be designated in the contractor's QC Plan. Each lot shall contain no less than four sublots and the maximum subplot size shall be 1,000 tons. The maximum lot size shall be 4,000 tons for determination of pay factors. Sublots from incomplete lots shall be combined with the previous complete lot for determination of pay factors. When no previous lot exists, the mixture shall be treated in accordance with [Sec 403.23.7.4.1](#). A new lot shall begin when the asphalt content of a mixture is adjusted in accordance with [Sec 403.11](#).

Delete Sec 106.9 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 and Steel.

On all federal-aid projects, the contractor's attention is directed to Title 23 CFR 635.410 *Buy America Requirements*. Where steel or iron products 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. Furthermore, any coating process of the steel or iron shall be performed in the USA. 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.

106.9.2 Buy America Requirements for Iron and Steel for Manufactured items.

A manufactured item will be considered iron and steel if it is "predominantly" iron or steel. Predominantly iron or steel means that the cost of iron or steel content of a product is more than 50 percent of the total cost of all its components.

106.9.2 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.

106.9.3 "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.

106.9.4 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.

106.9.4.1 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 the following. That 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.

106.9.4.2 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.

106.9.4.3 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.

106.9.5 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 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.

106.9.6 Buy America Requirements for Construction Materials other than iron and steel materials. Construction materials means 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

106.9.6.1 Minimal Use allowance for Construction Materials other than iron or steel.

"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.

106.9.7 Buy America Requirements for Manufactured Products.

Manufactured products means:

- (a) Articles, materials, or supplies that have been:

- (i) Processed into a specific form and shape; or
 - (ii) Combined with other articles, materials, or supplies to create a product with different properties than the individual articles, materials, or supplies.
- (b) If an item is classified as an iron or steel product, a construction material, or a section 70917(c) material under § 184.4(e) and the definitions set forth in this section, then it is not a manufactured product. However, an article, material, or supply classified as a manufactured product under § 184.4(e) and paragraph (1) of this definition may include components that are construction materials, iron or steel products, or section 70917(c) materials.

106.9.7.1 Manufactured products are exempt from Buy America requirements. To qualify as a manufactured product, items that consist of two or more of the listed construction materials that have been combined together through a manufacturing process, and items that include at least one of the listed materials combined with a material that is not listed through a manufacturing process, should be treated as manufactured products, rather than as construction materials.

106.9.7.2 Manufactured items are covered under a general waiver to exclude them from Buy America Requirements. To qualify for the exemption the components must comprise of 55% of the value of materials in the item. The final assembly must also be performed domestically.

CC. Coldmilling and Asphalt Resurfacing Requirements

1.0 Description. This work shall consist of all labor, equipment, and materials necessary to repair existing asphalt pavement by coldmilling and resurfacing or resurfacing only as specified in the Job Order or as approved by the engineer.

1.1 All work shall comply with Sections 403 and 622 except as herein modified.

2.0 Materials. All material shall be in accordance with Division 1000, Material Details.

3.0 Construction Requirements.

3.1 Coldmilling. Coldmilling will be performed at the locations described in the Job Order or approved by the engineer. The contractor shall only coldmill an area for repair that can be filled back with bituminous material by the end of each working day. All coldmilled material from the project will become the property of the contractor. All or part of the coldmilled material from the routes may be stockpiled on Commission property at locations designated by the engineer. Any material stockpiled on Commission property shall become the property of the Commission, unless other arrangements have been made with the engineer for temporary storage.

3.2 Asphalt Resurfacing. Shoulder mix and SP125 mixtures shall be placed in a maximum of 3 inch thick lifts unless otherwise approved by the engineer. The engineer may require thinner lift placement if there is evidence of insufficient compaction. The bituminous material shall be from approved mixtures and have satisfactory performance history. QC/QA testing will not be required; the contractor will be responsible for their own QA.

3.2.1 Asphalt Mix Type. Typical mainline repair Job Orders will use PG70-22 mixture. All mixtures shall be as designated in the Job Order unless otherwise approved by the engineer.

3.2.2 Surface Mixtures. All SP125C mixes placed as a surface lift shall contain aggregate meeting the non-carbonate criteria in accordance with Sec 403.3.5.

3.2.3 Straightedging. As soon as practical, the engineer will straightedge all segments of the repaired paved surface specified in the job order. Any variations exceeding 1/8 inch in 10 feet will be marked. Areas more than 1/8 inch high shall be removed as approved by the engineer at the contractor's expense. At transverse construction joints, the surface of all other layers shall not vary from the 10-foot straightedge by more than 1/8 inch.

3.2.4 Shoulder Resurfacing. The material used for any shoulder work may be commercial mix in accordance with Sec 401.5.3.

3.3 Additional or Reduced Work. If additional repair work is necessary beyond what is specified in the Job Order or the damage is not as extensive as originally viewed, the contractor shall contact the engineer for authorization to proceed with the additional or reduced work. The contractor shall note that with this authorization to proceed with additional or reduced work may change which unit bid item is used to calculate final payment depending on final repair quantities. Any work performed without authorization of the engineer shall be at the contractor's expense.

4.0 Method of Measurement. Final measurement of the completed repair area will not be made except for authorized changes during construction, or where appreciable errors are found in the quantity specified in the Job Order. Any revision or correction will be computed and added to or deducted from the Job Order quantity.

5.0 Basis of Payment. The accepted quantity of coldmilling and asphalt resurfacing meeting the required specifications will be paid for at the fixed unit prices and items in the Job Order as mutually agreed upon by the engineer and contractor. No adjustments or pay factors shall be made or calculated for smoothness, density, TSR, and PWL/QLA.

DD. 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.

EE. 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 assumptions 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.

FF. 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.

GG. Water Quality Control Measures in Consideration of Sensitive Species

1.0 Description. Spring River and Center Creek contain habitat for sensitive species, some of which are federally-listed threatened or endangered.

2.0 Restrictions. To avoid any negative impacts to these species and their habitat, water quality shall be protected from construction and maintenance impacts.

2.1 Erosion and sediment controls must be utilized to ensure no runoff or material enters streams and other water bodies from incidental roadway construction.

2.2 Slurry from boring activities must be contained in sediment ponds and filtered to remove fine sediment and heavy metals before being released to the environment. Slurry can be captured, and land applied in an upland area that will not runoff into the protected stream.

2.3 Material, water or residue shall not be allowed to enter the stream or floodplain. This shall include, but is not limited to, grading, hydro-blasting, cold milling, sandblasting, scraping, paving, or over-coating.

2.4 Vehicles or equipment around the stream shall be inspected daily, prior to use, for leaks or other potential water quality hazards. Any leaks or other water quality hazards on equipment shall be repaired and cleaned prior to use around the stream.

2.5 When possible, the use of equipment should be restricted to existing gravel bars or work pads placed so that habitat and/or mussel beds are not impacted.

2.6 No staging, storage, or refueling of equipment shall be allowed within 300 feet of bridges.

3.0 Basis of Payment. No direct payment will be made to the Contractor to recover the cost of labor, materials, or equipment required to comply with the above requirements.

HH. Sensitive Streams or Waterbodies Near Project Area

1.0 Description. The project crosses, or is in the vicinity of, a sensitive stream or watershed. Waterbodies within and near the project area may serve as habitat for federal and state listed sensitive species. To avoid any negative impacts to these species and their habitats, water quality shall be protected from construction impacts.

1.1 The contractor shall prevent any debris and materials from construction activities from entering streams and other waterbodies. If debris or materials do enter waterbodies, and if deemed necessary by the engineer or MoDOT's environmental personnel, it shall be removed as directed by the engineer at the contractor's expense.

2.0 Basis of Payment. No direct payment will be made for any expense incurred by the contractor by reason of compliance with the specific requirements of the provision, including any delay, inconvenience, or extra work except for those items for which payment is included in the contract.

II. Environmental Guidance for Job Order Contracting Projects

1.0 Description. This Job Special Provision provides notes on a variety of environmental protection measures required for various job order contracting activities. Please follow EPG guidance on recommended work practices, as well as the specific notes provided in this document. These notes apply throughout the entire state, except for the T&E Species Guidance – Cave Recharge Areas section, which applies to cave recharge areas in nine counties across southern Missouri (Greene, Jasper, Lawrence, Newton, Christian, Barry, Stone, Perry, and Taney Counties).

2.0 Restrictions. The following restrictions will ensure that MoDOT adheres to all environmental regulations as required by federal law.

2.1 Tree Clearing. Due to bat tree management requirements, no tree clearing is permitted for any activity, without prior coordination with MoDOT Environmental.

2.2 Spill Reporting. Follow EPG general guidance on spill containment/reporting. Standard spill reporting includes contacting Central Office Hazardous Waste (Ethan Musick:573-508-6907. Spills within cave recharge areas or active streams shall also be reported to the following Threatened and Endangered Species contacts: Bree McMurray: 573-508-2205.

2.3 Erosion Control. Erosion control measures shall be implemented in order to reduce suspended solids, turbidity and downstream sedimentation that may enter the ecosystem of any cave, surface water, or ground water sink.

2.4 Repairs on or near Bridges. Personnel shall plug all bridge drains, and implement any other measures necessary, to prevent any construction materials/debris or overspray/liquid from getting into the waterways. Silt fencing, or other treatment as specified by the engineer, shall be placed at all four bridge corners to prevent any construction materials/debris from washing off the roadway or the bridge and flowing down the bank into the waterway.

Work shall not be allowed below the ordinary high-water elevation. Personnel shall not drive or place any equipment in any waterway. Coordination with the Design - Environmental Section, and permitting and consultation with regulatory agencies, is required prior to any proposed activity below ordinary high-water elevation.

Petroleum products, paint, other chemicals, and construction debris shall be prevented from entering the water or otherwise contaminating the streamside environment. Reports of any accidental releases of petroleum products or other contaminants that could harm fish and other aquatic life will be reported immediately to the MoDOT Environmental Section –See Spill Reporting Procedures, above. These numbers shall be readily available on the job site at all times and the Personnel or their Supervisors shall be responsible for immediate reporting in the event of a spill.

3.0 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.