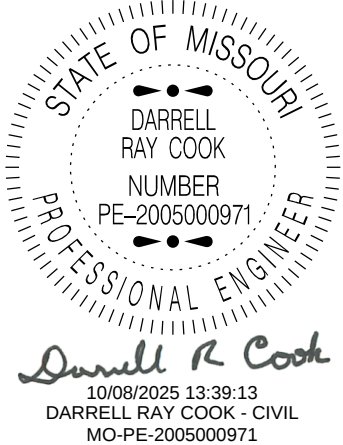


Job No.: JSR0324
Route: VARIOUS
County: VARIOUS

JOB SPECIAL PROVISIONS TABLE OF CONTENTS

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

A.	General - Federal JSP-09-02L	1
B.	Contract Liquidated Damages JSP-13-01D	1
C.	Work Zone Traffic Management JSP-02-06N	2
D.	Emergency Provisions and Incident Management JSP-90-11A	4
E.	Project Contact for Contractor/Bidder Questions JSP-96-05	5
F.	JSR0324 Project Details and Quantities	6
G.	Contractor Quality Control NJSP-15-42	22
H.	Seal Coat Completion of Work JSP-15-08	24
I.	Supplemental Revisions JSP-18-01JJ	24
J.	Lump Sum Temporary Traffic Control JSP-22-01B	31
K.	Pavement Marking Log	33
L.	Temporary Raised Pavement Markers	33
M.	Permanent Pavement Marking - SW	34
N.	Special Provisions for Seal Coat Projects	34
O.	Additional Flaggers	37
P.	Bridge Deck Drains	37
Q.	Railroad Engineering	37
R.	Missouri & Northern Arkansas Railroad Requirements	38

	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 105 W. CAPITOL AVE. JEFFERSON CITY, MO 65102 Phone 1-888-275-6636
	If a seal is present on this sheet, JSP's have been electronically sealed and dated.
	JOB NUMBER: JSR0324 VARIOUS COUNTIES, MO DATE PREPARED: 08/11/2025
	ADDENDUM:
Only the following items of the Job Special Provisions (Roadway) are authenticated by this seal: ALL	

JOB SPECIAL PROVISION

A. General - Federal JSP-09-02L

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 2025 Missouri Standard Plans
For Highway Construction

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

B. Contract Liquidated Damages JSP-13-01D

1.0 Description. Liquidated Damages for failure or delay in completing the work on time for this contract shall be in accordance with Sec 108.8. The liquidated damages include separate amounts for road user costs and contract administrative costs incurred by the Commission.

2.0 Period of Performance. Prosecution of work is expected to begin on the date specified below in accordance with Sec 108.2. Regardless of when the work is begun on this contract, all work on all projects shall be completed on or before the date specified below. Completion by this date shall be in accordance with the requirements of Sec 108.7.1.

Job No.: JSR0324
Route: VARIOUS
County: VARIOUS

Notice to Proceed: January 5, 2026
Contract Completion Date: September 1, 2026

2.1 Calendar Days and Completion Dates. Completion of the project is required as specified herein. The count of calendar days will begin on the date the contractor starts any construction operations on the project.

Project	Calendar Days	Daily Road User Cost
JSR0324	N/A	\$1500

3.0 Liquidated Damages for Contract Administrative Costs. Should the contractor fail to complete the work on or before the contract completion date specified in Section 2.0, or within the number of calendar days specified in Section 2.1, whichever occurs first, the contractor will be charged contract administrative liquidated damages in accordance with Sec 108.8 in the amount of **\$750** per calendar day for each calendar day, or partial day thereof, that the work is not fully completed. For projects in combination, these damages will be charged in full for failure to complete one or more projects within the specified contract completion date or calendar days.

4.0 Liquidated Damages for Road User Costs. Should the contractor fail to complete the work on or before the contract completion date specified in Section 2.0, or within the number of calendar days specified in Section 2.1, whichever occurs first, the contractor will be charged road user costs in accordance with Sec 108.8 in the amount specified in Section 2.1 for each calendar day, or partial day thereof, that the work is not fully completed. These damages are in addition to the contract administrative damages and any other damages as specified elsewhere in this contract.

C. Work Zone Traffic Management JSP-02-06N

1.0 Description. Work zone traffic management shall be in accordance with applicable portions of Division 100 and Division 600 of the Standard Specifications, and specifically as follows.

1.1 Maintaining Work Zones and Work Zone Reviews. The Work Zone Specialist (WZS) shall maintain work zones in accordance with Sec 616.3.3 and as further stated herein. The WZS shall coordinate and implement any changes approved by the engineer. The WZS shall ensure all traffic control devices are maintained in accordance with Sec 616, the work zone is operated within the hours specified by the engineer and will not deviate from the specified hours without prior approval of the engineer. The WZS is responsible to manage work zone delay in accordance with these project provisions. When requested by the engineer, the WZS shall submit a weekly report that includes a review of work zone operations for the week. The report shall identify any problems encountered and corrective actions taken. Work zones are subject to unannounced inspections by the engineer and other departmental staff to corroborate the validity of the WZS's review and may require immediate corrective measures and/or additional work zone monitoring.

1.2 Work Zone Deficiencies. Failure to make corrections on time may result in the engineer suspending work. The suspension will be non-excusable and non-compensable regardless if road user costs are being charged for closures.

2.0 Traffic Management Schedule.

2.1 Traffic management schedules shall be submitted to the engineer for review prior to the start of work and prior to any revisions to the traffic management schedule. The traffic management

schedule shall include the proposed traffic control measures, the hours traffic control will be in place, and work hours.

2.2 The traffic management schedule shall conform to the limitations specified in Sec 616 regarding lane closures, traffic shifts, road closures and other width, height and weight restrictions.

2.3 The engineer shall be notified as soon as practical of any postponement due to weather, material or other circumstances.

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

2.5 Traffic Congestion. The contractor shall, upon approval of the engineer, take proactive measures to reduce traffic congestion in the work zone. The contractor shall immediately implement appropriate mitigation strategies whenever traffic congestion reaches an excess of 10 minutes to prevent congestion from escalating to 15 minute or above threshold. If disruption of the traffic flow occurs and traffic is backed up in queues of 15 minute delays or longer, then the contractor shall immediately review the construction operations which contributed directly to disruption of the traffic flow and make adjustments to the operations to prevent the queues from reoccurring. Traffic delays may be monitored by physical presence on site or by utilizing real-time travel data through the work zone that generate text and/or email notifications where available. The engineer monitoring the work zone may also notify the contractor of delays that require prompt mitigation. The contractor may work with the engineer to determine what other alternative solutions or time periods would be acceptable.

2.5.1 Traffic Safety.

2.5.1.1 Recurring Congestion. Where traffic queues routinely extend to within 1000 feet of the ROAD WORK AHEAD, or similar, sign on a divided highway or to within 500 feet of the ROAD WORK AHEAD, or similar, sign on an undivided highway, the contractor shall extend the advance warning area, as approved by the engineer.

2.5.1.2 Non-Recurring Congestion. When traffic queues extend to within 1000 feet of the ROAD WORK AHEAD, or similar, sign on a divided highway or to within 500 feet of the ROAD WORK AHEAD, or similar, sign on an undivided highway infrequently, the contractor shall deploy a means of providing advance warning of the traffic congestion, as approved by the engineer. The warning location shall be no less than 1000 feet and no more than 0.5 mile in advance of the end of the traffic queue on divided highways and no less than 500 feet and no more than 0.5 mile in advance of the end of the traffic queue on undivided highways.

3.0 Work Hour Restrictions.

3.1 Except for emergency work, as determined by the engineer, and long term lane closures required by project phasing, all lanes shall be scheduled to be open to traffic during the five major holiday periods shown below, from 12:00 noon on the last working day preceding the holiday until 6:00 a.m. on the first working day subsequent to the holiday unless otherwise approved by the engineer.

Memorial Day
Labor Day
Thanksgiving
Christmas
New Year's Day

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

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

3.2 The contractor shall not perform any construction operation on the roadway, roadbed or active lanes, including the hauling of material within the project limits, during restricted periods, holiday periods or other special events specified in the contract documents.

4.0 Detours and Lane Closures.

4.1 When a changeable message sign (CMS) is provided, the contractor shall use the CMS to notify motorists of future traffic disruption and possible traffic delays one week before traffic is shifted to a detour or prior to lane closures. The CMS shall be installed at a location as approved or directed by the engineer. If a CMS with Communication Interface is required, then the CMS shall be capable of communication prior to installation on right of way. All messages planned for use in the work zone shall be approved and authorized by the engineer or its designee prior to deployment. When permanent dynamic message signs (DMS) owned and operated by MoDOT are located near the project, they may also be used to provide warning and information for the work zone. Permanent DMS shall be operated by the TMC, and any messages planned for use on DMS shall be approved and authorized by the TMC at least 72 hours in advance of the work.

4.2 At least one lane of traffic in each direction shall be maintained at all times except for brief intervals of time required when the movement of the contractor's equipment will seriously hinder the safe movement of traffic. Periods during which the contractor will be allowed to interrupt traffic will be designated by the engineer.

5.0 Basis of Payment. No direct payment will be made to the contractor to recover the cost of equipment, labor, materials, or time required to fulfill the above provisions, unless specified elsewhere in the contract document. All authorized changes in the traffic control plan shall be provided for as specified in Sec 616.

D. Emergency Provisions and Incident Management JSP-90-11A

1.0 The contractor shall have communication equipment on the construction site or immediate

access to other communication systems to request assistance from law enforcement or other emergency agencies for incident management. In case of traffic accidents or the need for law enforcement to direct or restore traffic flow through the job site, the contractor shall notify law enforcement or other emergency agencies immediately as needed. The resident engineer's office shall also be notified when the contractor requests emergency assistance.

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

JSR0324

Missouri Highway Patrol Troop D: 417-895-6868
MoDOT Customer Service: 417-895-7600
Barry County Sheriff: 417-847-6556
Christian County Sheriff: 417-581-2332
Jasper County Sheriff: 417-358-8177
McDonald County Sheriff: 417-223-4139
Newton County Sheriff: 417-451-8300
Ozark County Sheriff: 417-679-46
Taney County Sheriff: 417-546-7250
Webster County Sheriff: 417-859-2247

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

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

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

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

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

Ray Cook, Project Manager
Southwest District Office
3205 East Kearny,
Springfield MO 65803

Telephone Number: 417-895-7644
Email: darrell.cook@modot.mo.gov

Job No.: JSR0324
Route: VARIOUS
County: VARIOUS

1.1 All questions concerning the bid document preparation can be directed to the Central Office – Design as listed below.

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

F. JSR0324 Project Details and Quantities

1.0 Description. This project consists of placing bituminous material followed by placing cover aggregate material as described here in and in accordance with Section 409 of the Missouri Standard Specifications for Highway Construction. The project limits, total length of Pavement, and average width are shown below. Pavement not being placed will have their exception locations listed below:

PROJECT LIMITS: JSR0324						
County - Route	AADT	Begin Log	End Log	Length (Mi)	Average Width (Ft)	COMMENTS
MCDONALD COUNTY MO 76	2179	14.301	35.274	20.973	25	
BARRY COUNTY MO 76	2708	54.808	75.425	20.617	25	
BARRY COUNTY MO 97	2230	74.345	76.880	2.535	25	
BARRY COUNTY RT Z	1657	0.009	8.437	8.428	22	
CHRISTIAN COUNTY ROUTE T	2679	0.006	10.164	10.158	22	
JASPER COUNTY ROUTE H (WB)	575	0.125	10.822	10.697	21	Westbound Logs
NEWTON COUNTY ROUTE B	605	0.009	2.617	2.608	22	
TANEY COUNTY US 160	2334	151.168	172.883	21.665	22	
WEBSTER COUNTY ROUTE C	687	0.002	3.358	3.356	22	
PROJECT OVERALL LENGTH:				101.037	MILES	
SEE QUANTITY SHEETS FOR BEGIN AND END LOCATIONS						

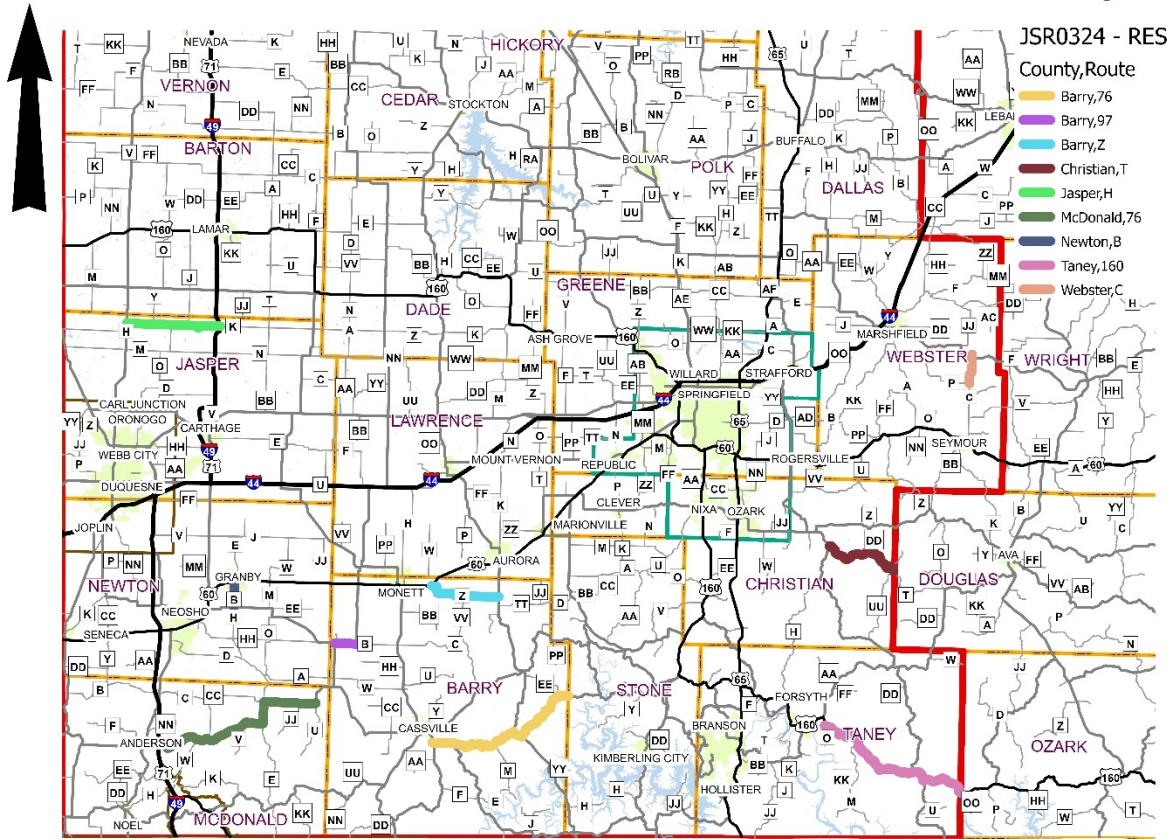
Job No.: JSR0324
Route: VARIOUS
County: VARIOUS

EXCEPTIONS JSR0324					
County - Route	BRIDGE/RR NUMBER	Begin Log	End Log	Length (Mi)	Comments
BARRY COUNTY MO 97	X0006	76.403	76.452	0.049	BRIDGE
CHRISTIAN COUNTY ROUTE T	A0768	2.649	2.662	0.013	BRIDGE
CHRISTIAN COUNTY ROUTE T	A0769	5.911	5.928	0.017	BRIDGE
JASPER COUNTY ROUTE H (WB LOGS)	RR DOT# 443243B	0.757	0.759	0.002	RAILROAD
JASPER COUNTY ROUTE H (WB LOGS)	T0373	2.780	2.814	0.034	BRIDGE
JASPER COUNTY ROUTE H (WB LOGS)	S0834	8.477	8.499	0.022	BRIDGE
MCDONALD COUNTY MO 76	K0621	24.760	24.780	0.020	BRIDGE
TANEY COUNTY US 160	A2854	152.991	153.081	0.090	BRIDGE
TANEY COUNTY US 160	L0382	171.729	171.801	0.072	BRIDGE
TOTAL EXCEPTIONS:				0.321	MILES

Job No.: JSR0324
Route: VARIOUS
County: VARIOUS

JSR0324 Seal Coats

Legend

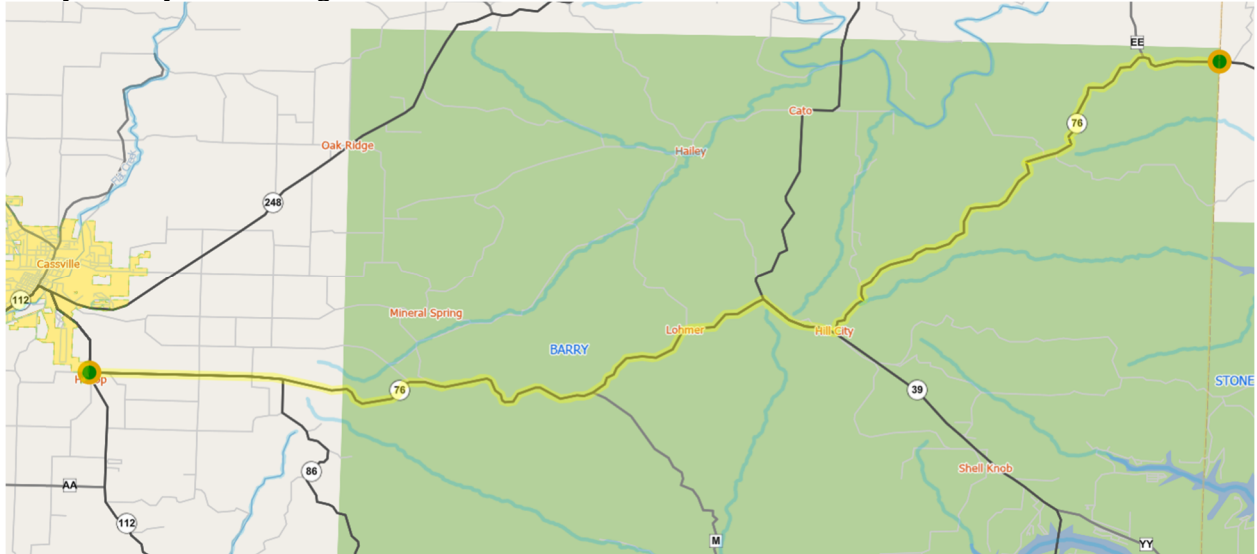


McDonald Mo 76: Log miles 14.301 – 35.274



Job No.: JSR0324
Route: VARIOUS
County: VARIOUS

Barry County Mo 76: Log miles 54.808 – 75.425



Job No.: JSR0324
Route: VARIOUS
County: VARIOUS

Barry County Mo 97: Log miles 74.345 – 76.880

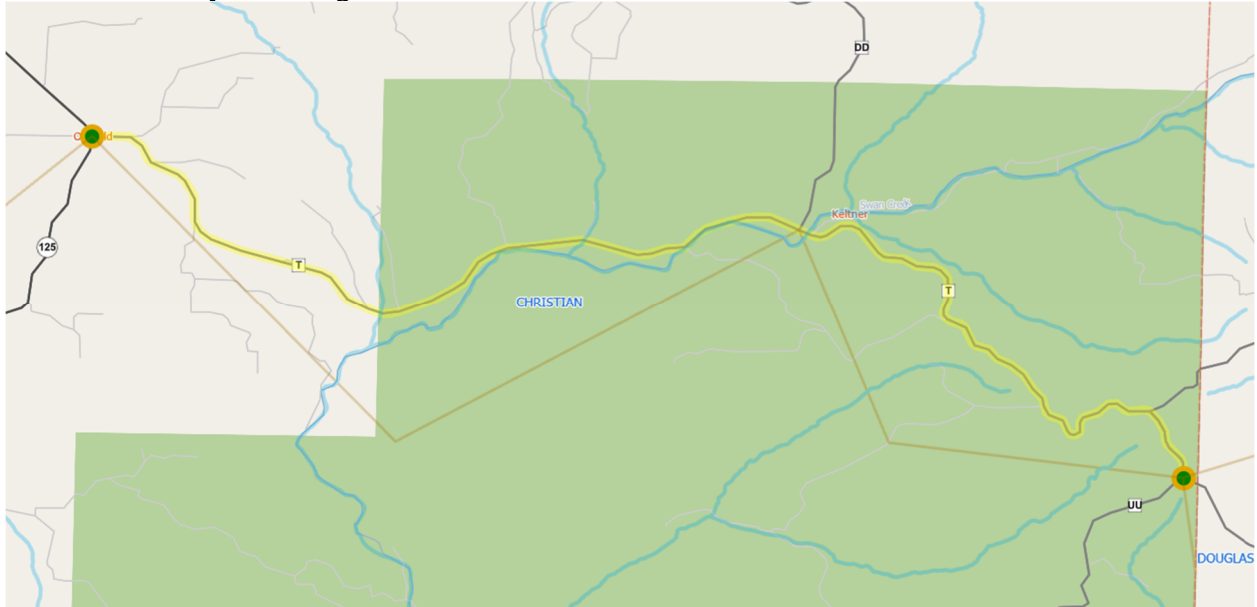


Barry County Rt Z: Log miles 0.009 – 8.437

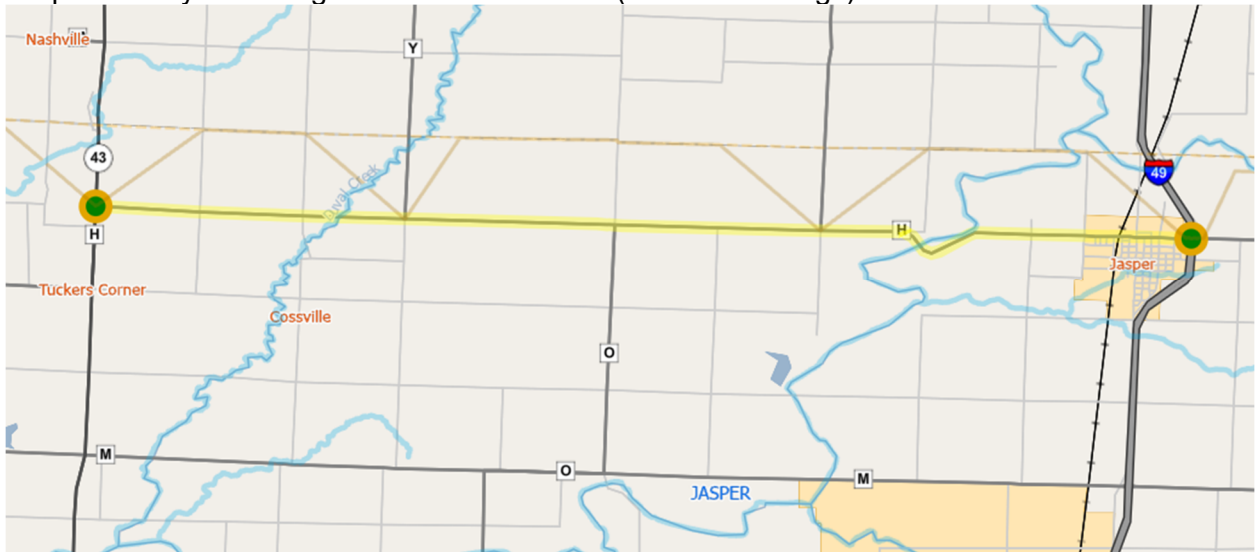


Job No.: JSR0324
Route: VARIOUS
County: VARIOUS

Christian County Rt T: Log miles 0.006 – 10.164

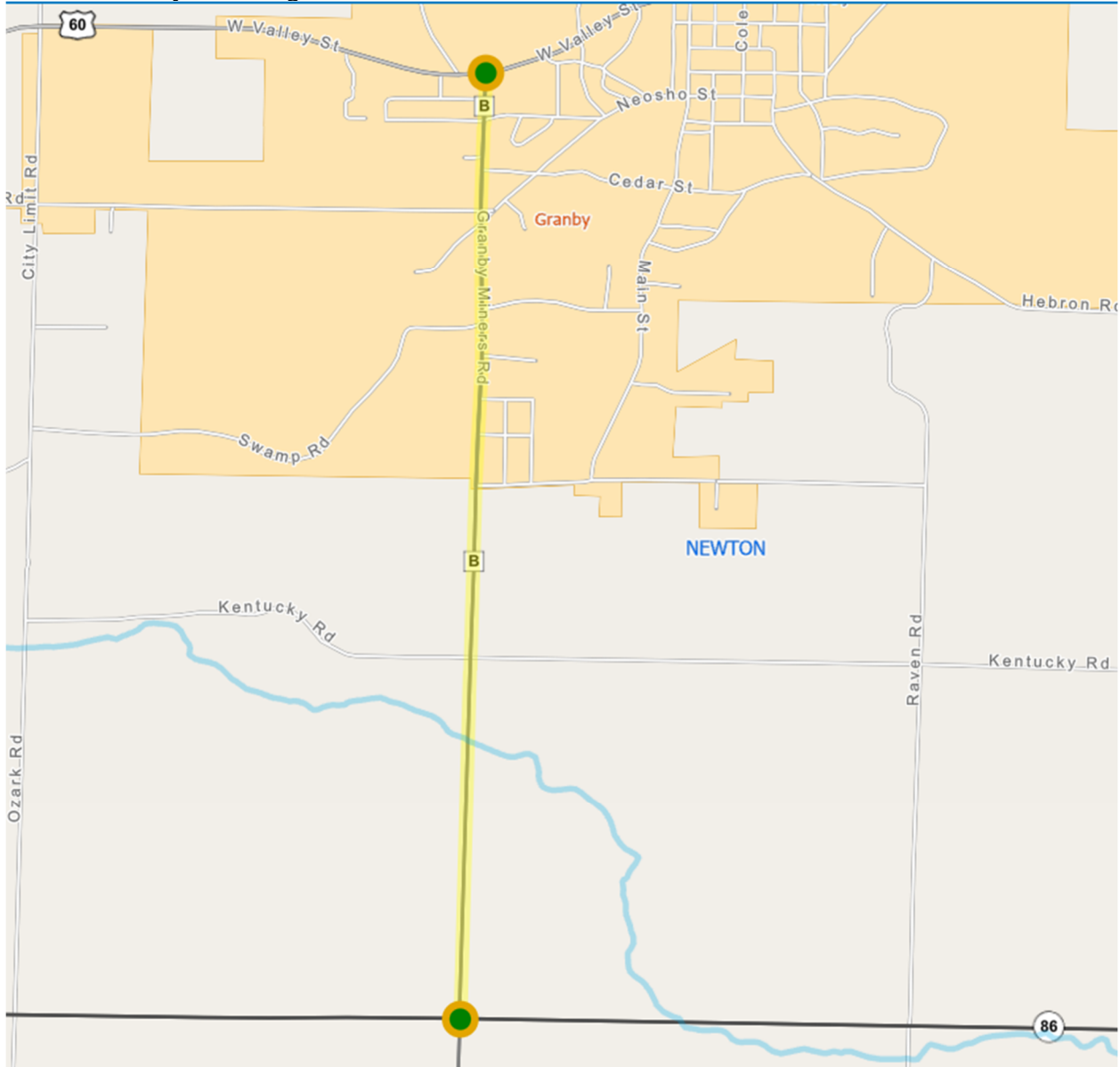


Jasper County Rt H: Log miles 0.125 – 10.822 (Westbound Logs)



Job No.: JSR0324
Route: VARIOUS
County: VARIOUS

Newton County Rt B: Log miles 0.009 – 2.617



Job No.: JSR0324
Route: VARIOUS
County: VARIOUS

Taney County US 160: Log miles 151.168 – 172.883



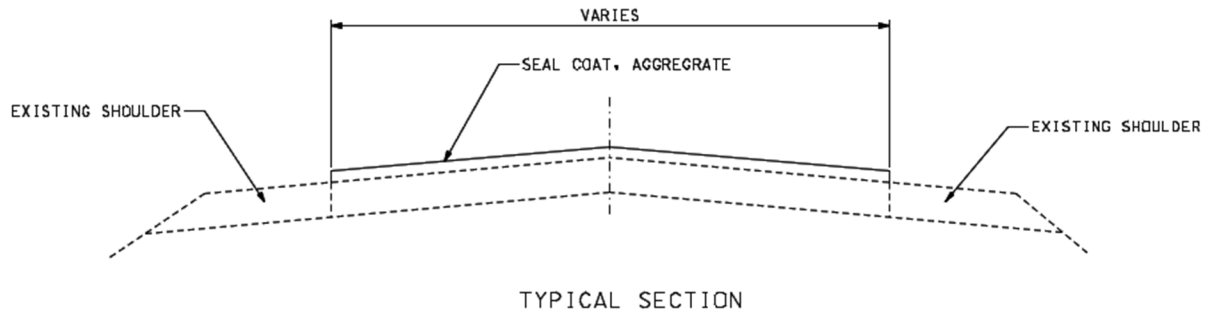
Job No.: JSR0324
Route: VARIOUS
County: VARIOUS

Webster County Rt C: Log miles 0.002 - 3.358



2.0 Application Rate and Typical.

AGGREGATE APPLICATION RATE	19 LBS/YD ²
BINDER APPLICATION RATE	0.35 GAL/YD ²
FOG SEAL APPLICATION RATE	0.10 GAL (diluted)/YD ²



****Seal Coat 2' onto shoulders where they exist.**

THE TARGET APPLICATION RATE WILL BE ADJUSTED BASED ON THE EXISTING SURFACE CONDITION. CONTRACTOR SHOULD ANTICIPATE FIELD ADJUSTMENTS TO THE APPLICATION RATES IN ACCORDANCE WITH THE FOLLOWING:

EMULSIFIED ASPHALT (CHFRS-2P) ESTABLISHED TARGET RATE: 0.35 GALLONS/SQUARE YARD

EMULSIFIED ASPHALT (CRS-2P) ESTABLISHED TARGET RATE: 0.35 GALLONS/SQUARE YARD

**

PAVEMENT CONDITIONADJUSTMENTS (GAL./S.Y.)

FLUSHED ASPHALT SURFACE -0.02

SMOOTH NON-POROUS SURFACE 0.00

SLIGHTLY POROUS, OXIDIZED SURFACE +0.01

SLIGHTLY POKED, OXIDIZED SURFACE +0.03

BADLY POKED, POROUS, OXIDIZED SURFACE +0.05

THE EMULSIFIED ASPHALT RATE MAY BE DECREASED IN THE RANGE OF 0.01 - 0.03 GAL./S.Y. FOR TRAFFIC VOLUMES GREATER THAN 2000 ADT.

FOG SEAL ESTABLISHED TARGET RATE: 0.10 GALLONS (DILUTED EMULSION)/SQUARE YARD

ESTABLISHED DILUTION TARGET: 50/50

Job No.: JSR0324
Route: VARIOUS
County: VARIOUS

3.0 Pavement Quantities.

3.1 Pavement quantities are as follows:

JSR0324 SEAL COAT GRADE A1 QUANTITIES								
County	Begin	End	Length	Average	Seal Coat	Binder	Fog Seal	
Route	Log	Log	(Mi)	Width (FT)	(SQ YD)	(Gal)	(Gal)	COMMENTS
MCDONALD COUNTY MO 76	14.301	14.447	0.146	28	2395.0	838.3	-	BEGIN AT SEAM EAST OF CEDAR RD, SEAL COAT 2' ONTO SHOULDER
	14.447	19.861	5.414	26	82582.0	28903.7	-	REDUCE LANE WIDTH AND SEAL COAT 2' SHOULDER
	19.861	24.760	4.899	24	68978.0	24142.3	-	REDUCE LANE WITH AND SEAL COAT 2' SHOULDERS
	24.760	24.780	0.020	-	-	-	-	BRIDGE K0621 EXCEPTION
	24.780	26.818	2.038	24	28695.0	10043.3	-	LANE & 2' SHOULDER, STOP BEFORE APRON AT MO 76 & RT
	26.818	26.840	0.022	-	-	-	-	OMIT APRON DUE TO TURNING MOVEMENT
	26.840	27.472	0.632	24	8902.0	3115.7	-	LANE & 2' SHOULDER
	27.472	27.484	0.007	29	113.0	39.6	-	TAPER TO TURN LANE
	27.484	27.541	0.057	34	1142.0	399.7	-	TURN LANE
	27.541	27.553	0.012	24	169.0	59.2	-	END AT RT U; CHANGE LANE WIDTH
	27.553	29.340	1.787	24	25161.0	8806.4	-	CONTINUE LANE WIDTH
	29.340	35.274	5.934	26	90519.0	31681.7	-	INCREASE LANE WIDTH; END PAST EAST APRON OF RT U
				SUBTOTAL	308656.0	108029.9	0.0	
BARRY COUNTY MO 76	54.808	54.843	0.035	Varies	650.0	227.5	-	BEGIN 100' EAST OF INTERSECTION
	54.843	55.386	0.543	24	7645.0	2675.8	-	LANES AND SHOULDERS
	55.386	65.594	10.208	26	155706.0	54497.1	-	END AT SEAM PRIOR TO 39, OMIT APRON
	65.594	66.792	1.198	0	0.0	0.0	-	SEAL COAT EXCEPTION ALONG MO 39
	66.792	67.000	0.208	26	3173.0	1110.6	-	LANES AND SHOULDERS
	67.000	75.425	8.425	24	118624.0	41518.4	-	END AT SEAM EAST OF FLAT CREEK ROAD
				SUBTOTAL	285798.0	100029.4	0.0	
BARRY COUNTY MO 97	74.345	76.403	2.058	25	30184.0	10564.4	-	BEGIN 100' EAST OF INTERSECTION MO 97 & Rt B
	76.403	76.452	0.049	-	-	-	-	BRIDGE X0006 EXCEPTION
	76.452	76.880	0.428	25	6270.0	2194.5	-	END AT STOP SIGN EAST OF MO 86
				SUBTOTAL	36454.0	12758.9	0.0	

Job No.: JSR0324
Route: VARIOUS
County: VARIOUS

JSR0324 SEAL COAT GRADE A1 QUANTITIES								
County	Begin	End	Length	Average	Seal Coat	Binder	Fog Seal	
Route	Log	Log	(Mi)	Width (FT)	(SQ YD)	(Gal)	(Gal)	COMMENTS
TANEY COUNTY US 160	151.168	152.991	1.822	23	24586.0	8605.1	-	BEGIN 300' PAST RT 0
	152.991	153.081	0.090	-	-	-	-	BRIDGE L0382 EXCEPTION
	153.081	165.256	12.175	23	164281.0	57498.4	-	
	165.256	171.729	6.473	22	83539.0	29238.7	-	REDUCED LANE WIDTH
	171.729	171.801	0.072	-	-	-	-	BRIDGE A2855 EXCEPTION
	171.801	172.833	1.032	22	13320.0	4662.0	-	END AT THE WEST SIDE OF LIGHTNING SPRINGS ROAD
				SUBTOTAL	285726.0	100004.2	0.0	
				SUBTOTALS (A1)	1023063.0	358072.6	0.0	

Job No.: JSR0324
Route: VARIOUS
County: VARIOUS

JSR0324 SEAL COAT GRADE B1 QUANTITIES								
County	Begin	End	Length	Average	Seal Coat	Binder	Fog Seal	
Route	Log	Log	(Mi)	Width (FT)	(SQ YD)	(Gal)	(Gal)	COMMENTS
BARRY COUNTY RT Z	0.009	0.134	0.125	Varies	1700.0	595.0	-	BEGIN 50' FROM THE INTERSECTION OF US 60 OMIT APRONG
	0.134	8.437	8.303	22	104729.0	36655.2	-	
				SUBTOTAL	106429.0	37250.2	0.0	
CHRISTIAN COUNTY ROUTE T	0.006	2.649	2.643	21.750	33729.0	11805.2	-	BEGIN 30' EAST OF MO 125 - OMIT APRON
	2.649	2.662	0.013	-	-	-	-	BRIDGE A0768 EXCEPTION
	2.662	5.912	3.250	21.500	40993.0	14347.6	-	0.0
	5.911	5.928	0.017	-	-	-	-	BRIDGE A0769 EXCEPTION
	5.928	10.164	4.235	22.000	54662.0	19131.7	-	END AT SEAM 180 FEET PAST INTERSECTOIN RT UU
				SUBTOTAL	129384.0	45284.5	0.0	
WEST BOUND LOGS								
JASPER COUNTY ROUTE H	0.125	0.265	0.140	30.000	2464.0	862.4	123.2	BEGIN AT CONCRETE SEAM WEST OF INTERCHANGE - BEGIN FOG SEAL THROUGH JASPER
	0.265	0.757	0.492	22.250	6422.0	2247.7	321.1	CONTINUE LANE WIDTH OMIT PARKING AREA IN FRONT OF THE SCHOOL
	0.757	0.759	0.002	0.000	0.0	0.0	0.0	RR DOT# 443243B EXCEPTION
	0.759	1.100	0.341	21.000	4202.0	1470.7	210.1	END FOG SEAL AT HARRISON AVE
	1.100	2.780	1.680	22.750	22422.0	7847.7	-	CONTINUE LANE WIDTH
	2.780	2.814	0.034	0.000	0.0	0.0	-	BRIDGE T0373 EXCEPTION
	2.814	8.477	5.663	20.667	68662.0	24031.7	-	CONTINUE LANE WIDTH
	8.477	8.499	0.022	0.000	0.0	0.0	-	BRIDGE S0834 EXCEPTION
	8.499	10.822	2.323	21.750	29638.0	10373.3	-	END AT MO 43 & RTE H; OMIT APRON
				SUBTOTAL	133810.0	46833.5	654.4	
NEWTON COUNTY ROUTE B	0.009	1.472	1.463	22.000	18882.0	6608.7	944.1	BEGIN 50' SOUTH OF US 60 OMITTING APRON: BEGIN FOG SEAL GRANBY CITY LIMITS
	1.472	2.617	1.145	22.000	14781.0	5173.4	0.0	END AT APRON SPLIT PRIOR TO MO 86
				SUBTOTAL	33663.0	11782.1	944.1	
WEBSTER COUNTY ROUTE C	0.002	3.358	3.356	22.000	43315.0	15160.3	-	Begin at Mo 38 End South of Rt P
				SUBTOTAL	43315.0	15160.3	0.0	
				SUBTOTALS (B1)	446601.0	156310.6	1598.5	

Job No.: JSR0324
Route: VARIOUS
County: VARIOUS

Overall Seal Coat Quantities

A1	1023063.0	SQ YDs
B1	446601.0	SQ YDs
BINDER	514383	Gallons
FOG SEAL	1599	Gallons

4.0 Temporary Traffic Control Plans. See [Standard Plan 616.20](#) for standard temporary traffic control requirements.

4.1 Construction signs and channelizers are as follows:

SIGN NO	SIGN	SIZE (IN)	AREA (SQ FT)	QTY (EA)	TOTAL AREA (SQ FT)	DESCRIPTION
GUIDE SIGNS						
58	GO20-4a	42X30	8.75	4	35.0	PILOT CAR IN USE WAIT & FOLLOW
60	GO20-4a	18x12	1.50	10	15.0	PILOT CAR IN USE WAIT & FOLLOW
53	GO20-4	36X18	4.50	2	9.0	PILOT CAR FOLLOW ME
-	GO22-1	21x15	2.19	2	4.4	WET PAINT (ARROW PIVOT)
-	GO23-1	36X24	6.00	20	120.0	WORK ZONE (PLAQUE)
57	WO8-7A	36X36	9.00	122	1098.0	FRESH OIL - LOOSE GRAVEL
REGULATORY SIGNS						
-	R2-1	36x48	12.00	20	240.0	SPEED LIMIT 45
WARNING SIGNS						
11	WO3-4	48X48	16.00	4	64.0	BE PREPARED TO STOP
35	WO8-12	48X48	16.00	122	1952.0	NO CENTER LINE
2	WO20-1	48X48	16.00	4	64.0	ROAD WORK AHEAD
7	WO20-4	48X48	16.00	4	64.0	ONE LANE ROAD AHEAD
8	WO20-7a	48X48	16.00	4	64.0	FLAGGER (SYMBOL)
SPECIAL						
59	CONST-8	48X36	12.00	4	48.0	WORK ZONE NO PHONE ZONE
616-10.05				AREA	3777.4	
CONSTRUCTION SIGN TOTAL				BASE	LUMP SUM	

Job No.: JSR0324
Route: VARIOUS
County: VARIOUS

* - ADDITIONAL SIGN NO. 2 USED AS SHOWN ON TRAFFIC CONTROL SHEET 3 OF 5 AND AS DIRECTED BY ENGINEER.

** - FRESH OIL/LOOSE GRAVEL SIGN SHALL BE PLACED AT THE START OF THE PROJECT. SIGNS SHOULD ALSO BE INSTALLED WITHIN 150 FT. AFTER THE INTERSECTION OF A STATE ROUTE. ADDITIONAL SIGNS MAY BE INSTALLED WITHIN 150 FT. AFTER OTHER INTERSECTIONS, AS DIRECTED BY ENGINEER.

REFER TO STANDARD PLAN 616.10 AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.

4.2 Other Traffic Control Devices and Mobilization are as follows:

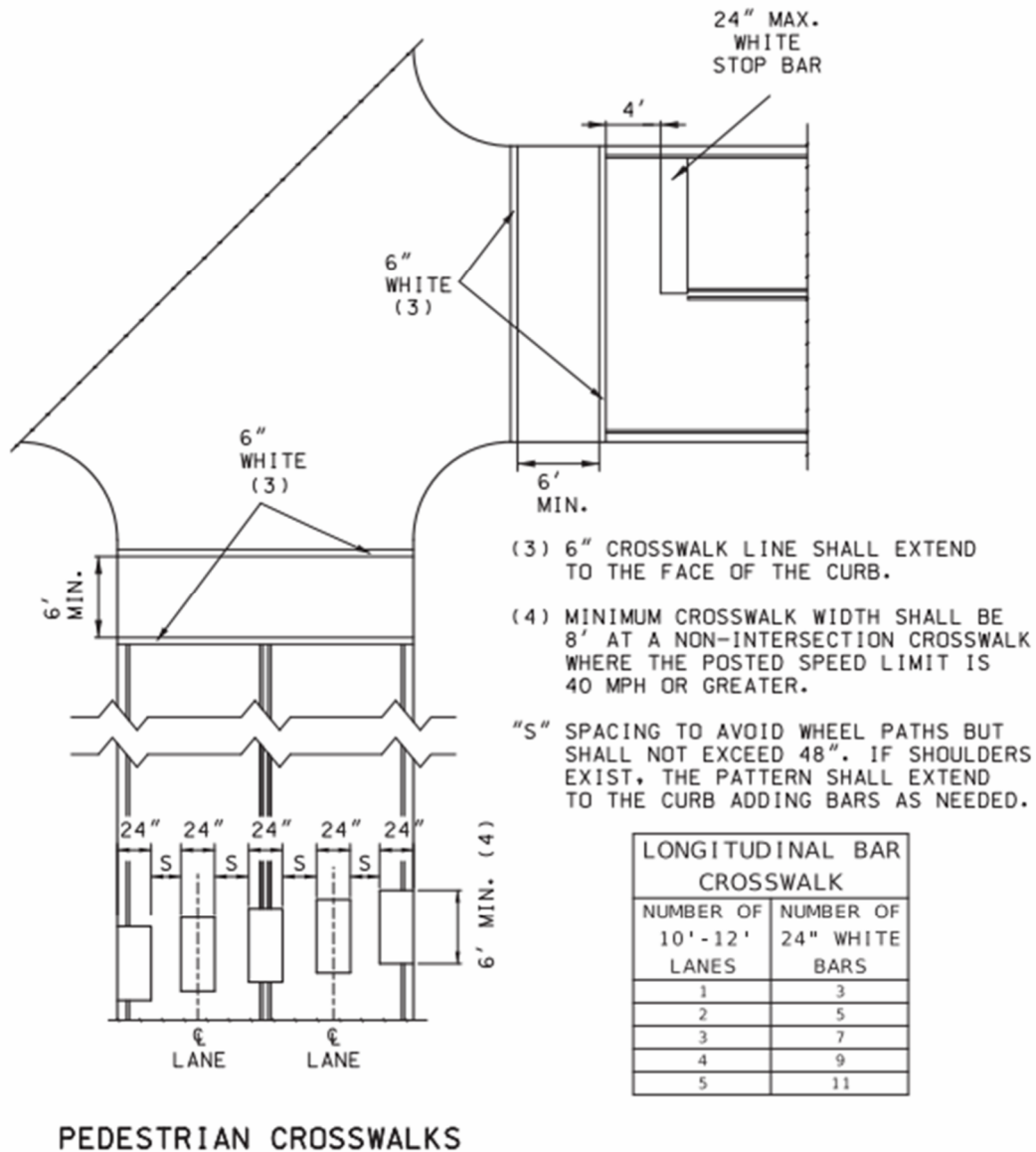
ITEM NUMBER	TOTAL QTY	DESCRIPTION
616-10.98A	10	CHANGEABLE MESSAGE SIGN WITHOUT COMMUNICATION
		INTERFACE, CONTRACTOR FURNISHED, CONTRACTOR RETAINED
618-10.00	1 LUMP SUM	MOBILIZATION

5.0 Pavement Marking. Pavement marking quantities are as follows:

4" CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS)						
County	Begin	End	Length	4" WHITE		4" YELLOW
Route	Log	Log	(Mi)	Length (ft)		Length (ft)
MCDONALD COUNTY MO 76	14.301	35.274	20.973	221476.6		221476.6
BARRY COUNTY MO 76	54.808	75.425	20.617	217715.5		217715.5
BARRY COUNTY MO 97	74.345	76.880	2.535	26769.6		26769.6
BARRY COUNTY RT Z	0.009	8.437	8.428	88999.7		88999.7
CHRISTIAN COUNTY ROUTE T	0.006	10.164	10.158	107267.4		107267.4
JASPER COUNTY ROUTE H (WB LOGS)	0.125	10.822	10.697	112960.3		112960.3
NEWTON COUNTY ROUTE B	0.009	2.617	2.608	27542.6		27542.6
TANEY COUNTY US 160	151.168	172.833	21.665	228777.4		228777.4
WEBSTER COUNTY ROUTE C	0.002	3.358	3.356	35439.4		35439.4
	TOTAL		101.037	1066949		1066949
				(L.F.)		(L.F.)

Job No.: JSR0324
Route: VARIOUS
County: VARIOUS

JSR0324 PREFORMED THERMOPLASTIC PAVEMENT MARKING						
County	Begin	24" WHITE	6' PED CROSSING BARS - 24" WHITE	RR CROSSING	ARROW (LT/RT)	COMMENTS
Route	Log	(LF)	(LF)	(EA)	(EA)	
BARRY COUNTY MO 76	54.800	12				AT Stop sign WB in the Apron
	54.818				1	RT TURN ARROW WB SIDE
JASPER COUNTY ROUTE H (WB LOGS)	18.299	24		1		EB SIDE RT MARKING
	18.360	12				EB SIDE STOP BAR BEFORE TRACKS
	18.369	12				WB SIDE STOP BAR BEFORE TRACKS
	18.403		30			EAST SIDE AT PARK STREET, EXIT FROM PARKING AREA
	18.428		30			AT THE SCHOOL EAST SIDE EXIT FROM PARKING AREA
	18.446	24		1		WB SIDE RR MARING
	18.452		30			WEST SIDE AT FIRST STREET (SCHOOL)
	18.527		30			WEST SIDE AT MAIN STREET
	15.542		30			EAST SIDE AT MAIN STREET
	TOTAL	84	150	2	1	
	USE	234		2	1	
		24" WHITE		RR CROSSING	ARROW (LT/RT)	



G. Contractor Quality Control NJSP-15-42

1.0 The contractor shall perform Quality Control (QC) testing in accordance with the specifications and as specified herein. The contractor shall submit a Quality Control Plan (QC Plan) to the engineer for approval that includes all items listed in Section 2.0, prior to beginning work.

2.0 Quality Control Plan.

- (a) The name and contact information of the person in responsible charge of the QC testing.

- (b) A list of the QC technicians who will perform testing on the project, including the fields in which they are certified to perform testing.
- (c) A proposed independent third party testing firm for dispute resolution, including all contact information.
- (d) A list of Hold Points, when specified by the engineer.
- (e) The MoDOT Standard Inspection and Testing Plan (ITP). This shall be the version that is posted at the time of bid on the MoDOT website (www.modot.org/quality).

3.0 Quality Control Testing and Reporting. Testing shall be performed per the test method and frequency specified in the ITP. All personnel who perform sampling or testing shall be certified in the MoDOT Technician Certification Program for each test that they perform.

3.1 Reporting of Test Results. All QC test reports shall be submitted as soon as practical, but no later than the day following the test. Test data shall be immediately provided to the engineer upon request at any time, including prior to the submission of the test report. No payment will be made for the work performed until acceptable QC test results have been received by the engineer and confirmed by QA test results.

3.1.1 Test results shall be reported on electronic forms provided by MoDOT. Forms and Contractor Reporting Excel2Oracle Reports (CRE2O) can be found on the MoDOT website. All required forms, reports and material certifications shall be uploaded to a Microsoft SharePoint® site provided by MoDOT, and organized in the file structure established by MoDOT.

3.2 Non-Conformance Reporting. A Non-Conformance Report (NCR) shall be submitted by the contractor when the contractor proposes to incorporate material into the work that does not meet the testing requirements or for any work that does not comply with the contract terms or specifications.

3.2.1 Non-Conformance Reporting shall be submitted electronically on the Non-Conformance Report form provided on the MoDOT Website. The NCR shall be uploaded to the MoDOT SharePoint® site and an email notification sent to the engineer.

3.2.2 The contractor shall propose a resolution to the non-conforming material or work. Acceptance of a resolution by the engineer is required before closure of the non-conformance report.

4.0 Work Planning and Scheduling.

4.1 Two-week Schedule. Each week, the contractor shall submit to the engineer a schedule that outlines the planned project activities for the following two-week period. The two-week schedule shall detail all work and traffic control events planned for that period and any Hold Points specified by the engineer.

4.2 Weekly Meeting. When work is active, the contractor shall hold a weekly project meeting with the engineer to review the planned activities for the following week and to resolve any outstanding issues. Attendees shall include the engineer, the contractor superintendent or project manager and any foreman leading major activities. This meeting may be waived when, in the opinion of the engineer, a meeting is not necessary. Attendees may join the meeting in person, by phone or video conference.

4.3 Pre-Activity Meeting. A pre-activity meeting is required in advance of the start of each new activity, except when waived by the engineer. The purpose of this meeting is to review construction details of the new activity. At a minimum, the discussion topics shall include: safety precautions, QC testing, traffic impacts, and any required Hold Points. Attendees shall include the engineer, the contractor superintendent and the foreman who will be leading the new activity. Pre-activity meetings may be held in conjunction with the weekly project meeting.

4.4 Hold Points. Hold Points are events that require approval by the engineer prior to continuation of work. Hold Points occur at definable stages of work when, in the opinion of the engineer, a review of the preceding work is necessary before continuation to the next stage.

4.4.1 A list of typical Hold Point events is available on the MoDOT website. Use of the Hold Point process will only be required for the project-specific list of Hold Points, if any, that the engineer submits to the contractor in advance of the work. The engineer may make changes to the Hold Point list at any time.

4.4.2 Prior to all Hold Point inspections, the contractor shall verify the work has been completed in accordance with the contract and specifications. If the engineer identifies any corrective actions needed during a Hold Point inspection, the corrections shall be completed prior to continuing work. The engineer may require a new Hold Point to be scheduled if the corrections require a follow-up inspection. Re-scheduling of Hold Points require a minimum 24-hour advance notification from the contractor unless otherwise allowed by the engineer.

5.0 Quality Assurance Testing and Inspection. MoDOT will perform quality assurance testing and inspection of the work, except as specified herein. The contractor shall utilize the inspection checklists provided in the ITP as a guide to minimize findings by MoDOT inspection staff. Submittal of completed checklists is not required, except as specified in 5.1.

5.1 Inspection and testing required in the production of concrete for the project shall be the responsibility of the contractor. Submittal of the 501 Concrete Plant Checklist is required.

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

H. Seal Coat Completion of Work JSP-15-08

1.0 Description. This project contains work which may be completed in multiple construction seasons.

2.0 Completion of Work. The contractor shall not start any work that cannot be completed in a single construction season without prior approval of the engineer.

3.0 Basis of Payment. There will be no direct pay for compliance with this provision.

I. Supplemental Revisions JSP-18-01JJ

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

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

- **Stormwater Compliance Requirements**

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

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

1.2 Reporting of Off-Site Land Disturbance. If the project includes any planned land disturbance on the project site, prior to the start of work, the contractor shall submit a written report to the engineer that discloses all Off-site support areas where land disturbance is planned, the total acreage of anticipated land disturbance on those sites, and the land disturbance permit number(s). Upon request by the engineer, the contractor shall submit a copy of its land disturbance permit(s) for Off-site locations. Based on the total acreage of land disturbance, both on and Off-site, the engineer shall determine if these Stormwater Compliance Requirements shall apply. The Contractor shall immediately report any changes to the planned area of Off-site land disturbance. The Contractor is responsible for obtaining its own separate land disturbance permit for Off-site areas.

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

2.1 Duties of the WPCM:

- (a) Be familiar with the stormwater requirements including the current MoDOT State Operating Permit for construction stormwater discharges/land disturbance activities; MoDOT’s statewide Stormwater Pollution Prevention Plan (SWPPP); the Corps of Engineers Section 404 Permit, when applicable; the project specific SWPPP, the Project’s Erosion & Sediment Control Plan; all applicable special provisions, specifications, and standard drawings; and this provision;

- (b) Successfully complete the MoDOT Stormwater Training Course within the last 4 years. The MoDOT Stormwater Training is a free online course available at MoDOT.org;
- (c) Attend the Pre-Activity Meeting for Grading and Land Disturbance and all subsequent Weekly Meetings in which grading activities are discussed;
- (d) Oversee and ensure all work is performed in accordance with the Project-specific SWPPP and all updates thereto, or as designated by the engineer;
- (e) Review the project site for compliance with the Project SWPPP, as needed, from the start of any grading operations until final stabilization is achieved, and take necessary actions to correct any known deficiencies to prevent pollution of the waters of the state or adjacent property owners prior to the engineer's weekly inspections;
- (f) Review and acknowledge receipt of each MoDOT Inspection Report (Land Disturbance Inspection Record) for the Project within forty eight (48) hours of receiving the report and ensure that all Stormwater Deficiencies noted on the report are corrected as soon as possible, but no later than stated in Section 5.0.

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

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

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

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

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

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

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

106.9 Buy America Requirements.

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

106.9.1 Buy America Requirements for Iron 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.

106.9.1.1 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 in the contract, domestic steel or iron products may be used; however, payment will be at the contract unit price for foreign steel or iron products.

106.9.6 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.

- Third-Party Test Waiver for Concrete Aggregate

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

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

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

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

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

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

3.1 The testing facility shall be AASHTO accredited.

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

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

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

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

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

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

used to measure fresh air content, then the aggregate correction factor for the mix determined in accordance with AASHTO T 152 shall also be included.

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

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

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

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

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

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

J. Lump Sum Temporary Traffic Control JSP-22-01B

1.0 Delete Sec 616.11 and insert the following:

616.11 Method of Measurement. Measurement for relocation of post-mounted signs will be made to the nearest square foot of sign area only for the signs designated for payment on the plans. All other sign relocations shall be incidental. Measurement for construction signs will be made to the nearest square foot of sign area. Measurement will be made per each for each of the temporary traffic control items provided in the contract.

616.11.1 Lump Sum Temporary Traffic Control. No measurement will be made for temporary traffic control items grouped and designated to be paid per lump sum. The list of lump sum items provided in the plans or contract is considered an approximation and may be subject to change based on field conditions. This is not a complete list and may exclude quantities for duplicate work zone packages used in simultaneous operations. The contractor shall provide all traffic

control devices required to execute the provided traffic control plans for each applicable operation, stage, or phase. No measurement will be made for any additional signs or devices needed except for changes in the traffic control plan directed by the engineer.

2.0 Delete Sec 616.12 and insert the following:

616.12 Basis of Payment. All temporary traffic control devices authorized for installation by the engineer will be paid for at the contract unit price for each of the pay items included in the contract. Whether the devices are paid individually, or per lump sum, no direct payment will be made for the following:

- (a) Incidental items necessary to complete the work, unless specifically provided as a pay item in the contract.
- (b) Installing, operating, maintaining, cleaning, repairing, removing, or replacing traffic control devices.
- (c) Covering and uncovering existing signs and other traffic control devices.
- (d) Relocating temporary traffic control devices, including permanent traffic control devices temporarily relocated, unless specifically included as a pay item in the contract.
- (e) Worker apparel.
- (f) Flaggers, AFADs, PFDs, pilot vehicles, and appurtenances at flagging stations.
- (g) Furnishing, installing, operating, maintaining, and removing construction-related vehicle and equipment lighting.
- (h) Construction and removal of temporary equipment crossovers, including restoring pre-existing crossovers.
- (i) Provide and maintaining work zone lighting and work area lighting.

616.12.1 Lump Sum Temporary Traffic Control. Traffic control items grouped together in the contract or plans for lump sum payment shall be paid incrementally per Sec 616.12.1.1. Alternately, upon request from the contractor, the engineer will consider a modified payment schedule that more accurately reflects completion of traffic control work. No payment will be made for any additional signs or devices needed except for changes in the traffic control plan directed by the engineer. Additional items directed by the engineer will be paid for in accordance with Sec 109.4. No adjustment to the price will be made for overruns or underruns of other work or for added work that is completed within existing work zones.

616.12.1.1 Partial payments. For purposes of determining partial payments, the original contract amount will be the total dollar value of all original contract line items less the price for Lump Sum Temporary Traffic Control (LSTTC). If the contract includes multiple projects, this determination will be made for each project. Partial payments will be made as follows:

- (a) The first payment will be made when five percent of the original contract amount is earned. The payment will be 50 percent of the price for LSTTC, or five percent of the original contract amount, whichever is less.

(b) The second payment will be made when 50 percent of the original contract amount is earned. The payment will be 25 percent of the price for LSTTC, or 2.5 percent of the original contract amount, whichever is less.

(c) The third payment will be made when 75 percent of the original contract amount is earned. The payment will be 20 percent of the price for LSTTC, or two percent of the original contract amount, whichever is less.

(d) Payment for the remaining balance due for LSTTC will be made when the contract has been accepted for maintenance or earlier as approved by the engineer.

616.12.1.2 Temporary traffic control will be paid for at the contract lump sum price for Item:

Item No.	Unit	Description
616-99.01	Lump Sum	Misc. Lump Sum Temporary Traffic Control

List of items included in lump sum traffic control:

616-10.05 – Construction Signs

616-10.25 – Channelizer (Trim-Line)

616-10.40 – Flashing Arrow Panel

K. Pavement Marking Log

1.0 Description. The contractor shall log the locations of existing pavement marking prior to any construction operations that may affect the existing pavement marking. The log shall contain all existing pavement marking and shall include center stripes, no passing stripes, lane lines, turn arrows, hash bars, cross walks, and stop bars. The contractor shall provide a copy of the existing pavement marking log to the engineer. The contractor shall place the new pavement marking at the same locations as the existing pavement marking, unless otherwise directed by the engineer or shown on the plans.

2.0 Basis of Payment. No direct payment will be made for logging of existing pavement marking.

L. Temporary Raised Pavement Markers

1.0 Description. The contractor shall provide Temporary Raised Pavement Markers in accordance with Section 620.2.5 and 620.60 in addition to the following.

2.0 Construction Requirements.

2.1 The contractor shall place and maintain Temporary Raised Pavement Markers (TPRM's) on pavement undergoing milling or resurfacing operations in accordance with Section 620.2.5.

2.2 Any damage or loss of Temporary Raised Pavement Markers due to contractor operations including installation of rumble strips will be replaced at the contractor's expense. Temporary Raised Pavement Markers may be offset to allow for installation of rumble strips as approved by the engineer.

2.3 The spacing shall be 40' for centerline and edge line on two-way sections with aggregate or paved shoulders 4 feet or less. For shoulders on multilane divided sections or two-way sections with paved shoulders greater than 4 feet wide, the contractor shall space the Temporary Raised Pavement Markers as shown in the Standard Plans.

2.4 The contractor shall remove the Temporary Raised Pavement Markers after the completion of the permanent pavement marking as approved by the engineer.

3.0 Basis of Payment. No direct payment will be made for Temporary Raised Pavement Markers. No direct payment will be made for the removal of Temporary Raised Pavement Markers.

M. Permanent Pavement Marking - SW

1.0 Description. This work shall consist of furnishing and placing permanent centerline, edge line, lane line markings, and preformed thermoplastic pavement marking, as specified, at locations shown on the plans or as approved by the engineer. The preformed thermoplastic pavement marking includes, but not limited to, 24" White (Stop Bars) and 24" Yellow (Hash Mark), 6" White for Crosswalks, Turn Arrows, Railroad Crossings, Yield Markings, and the word "ONLY". This work shall be in accordance with Section 620 and specifically as follows.

2.0 Construction Requirements. On roadways open to traffic, permanent centerline, edge line, and lane line markings shall be in place no later than five days after the final paving operations. This requirement applies per individual route if multiple routes are included in a contract or if a 15 mile section of an individual route is open to traffic within a contract. This requirement also applies to divided highways, once a directional segment of 15 mile, or the entire directional segment if less than 15 miles, is paved and open to traffic within a contract. To fulfill this requirement, the contractor may have to mobilize more than once for the installation of permanent centerline, edge line, and lane line markings. The contractor will also need to coordinate the permanent pavement marking with the installation of rumble strips. The contractor shall place the preformed thermoplastic pavement marking after the permanent centerline, edge line, and lane line marking is installed by the contractor or by others. The contractor will have 5 five days after the permanent centerline, edge line, and lane line markings are placed to start the preformed thermoplastic pavement marking installation and shall be placed in accordance with manufacturer's recommendations or as approved by the engineer.

3.0 Basis of Payment. The accepted quantity of permanent pavement marking paint and preformed thermoplastic pavement marking will be paid for at the contract unit price for each of the pay items include in the contract. Payment will be considered full compensation for all labor, equipment, material or time necessary to complete the described work including any other incidental items.

N. Special Provisions for Seal Coat Projects

409.2.1 All limestone and dolomite shall be either precoated as specified in Sec 409 or fog sealed in accordance with Sec 413. In lieu of using all aggregate material, such as precoated limestone or dolomite, the contractor may use a 50/50 mixture of trap rock and

limestone/dolomite meeting the required gradation as specified in Sec 1003.2.2 for the grade of aggregate specified in the contract.

409.2.3 Asphalt binder shall be CHFRS-2P or CFS-2P and shall meet the following criteria:

Asphalt Binder Requirements			
Tests on Asphalt Binder ^a	Test Method	Minimum	Maximum
Penetration @ 77°F	ASTM D 5	60	150
Elastic Recovery @ 50°F, %	AASHTO T 301	65	---

^aThese tests shall be done on the asphalt residue for emulsions and cutbacks.

409.5.1 Weather Limitations. Bituminous material shall not be placed on any wet surface or when the ambient temperature or the temperature of the pavement on which it is to be placed is below 60 F. Humidity limitations shall be according to the binder manufacturer's written recommendation. Temperatures shall be obtained in accordance with MoDOT Test Method TM 20. At the discretion of the engineer, Contractors will not be allowed to place seal coat at over 95°F.

409.5.1.1 Seal coats for pavements shall not be placed between September 1 and May 1, except when authorized by the engineer. Seal coats for shoulders shall not be placed between October 1 and May 1, except when authorized by the engineer. Placement within these dates shall only be permitted when it is to the Commission's advantage to do so.

409.5.2 Surface Preparation. The surface shall be thoroughly cleaned and swept to remove all dirt, packed soil or any other foreign material prior to spraying the bituminous material.

409.5.4 Compaction. The surface aggregate shall be thoroughly seated over the entire area with pneumatic tire rollers, using sufficient passes to embed the aggregate. The aggregate shall be placed and compacted immediately after the asphalt binder application.

409.5.5 Dust Control. At the discretion of the engineer, if dust in the air becomes an issue, the contractor may be required to control dust.

409.5.6 Loose Aggregate. Loose aggregate shall be removed from curbs, gutters, sidewalks, driveways and other areas designated by the engineer.

409.5.7 Application of Cover Aggregate. All portions of the surface not covered by mechanical spreaders shall be hand spotted so that the entire surface will be uniformly covered.

409.6 Traffic Control.

409.6.1 The contractor shall perform work in such a way as to avoid damage to vehicles resulting from asphalt or loose aggregate. During application of the seal coat, the contractor shall control traffic through the work zone by means of pilot vehicles traveling at a maximum

speed of 35 miles per hour. During any additional sweeping operations pilot cars may be eliminated. Conformance with the specifications, standards and traffic control plan is considered a minimum effort and is not intended to absolve any liability for damage to vehicles as a result of construction operations. The contractor shall designate a responsible person for receiving and resolving damage claims made by the public. The company name and contact information shall be posted as designated on the plans. This person shall be available by telephone during the contractor's normal business hours Monday through Friday.

409.6.2 Any route or portion of a route with an existing posted speed limit greater than 45 MPH shall have a temporary workzone speed limit posted at 45 MPH until the route has been accepted by the engineer or the engineer directs the contractor to remove the temporary workzone speed reduction. Existing speed limit signs shall be covered and temporary workzone speed limit signs placed at the same location.

409.6.3 The contractor shall provide contact information signs with their company name and phone number on a variable width by 24 inch tall sign with black lettering on orange retroreflective sheeting in accordance with Sec 1042.2.7. The first line shall state "CONTRACTOR" in uppercase 4 inch C highway font, the second line shall contain the contractor name in upper/lower case 4 inch B highway font and the third line shall contain the contractor's phone number in 4 inch C highway font. Signs shall be posted near the beginning and end of the project limits as approved by the engineer.

409.6.3.1 The contact information sign shall remain in place until the route has been accepted by the engineer and until, in the engineer's judgment, the route exhibits no more loose aggregate.

409.7 Basis of Acceptance. Evaluation of the route for acceptance shall be made no less than 14 days from completion of the route. Seal coat will be evaluated for acceptance by the engineer based on the following criteria:

- (a) No location having bleeding of binder in excess of two square feet or a combined area of bleeding greater than 10 square feet on any 50 foot length of two lane roadway.
- (b) No continued or ongoing tracking from seal coat onto other roadways or adjacent driveways.
- (c) No transverse and longitudinal construction joints from the seal coat application that are not straight, creates a bump, or produce a poor riding surface.
- (d) Longitudinal construction joints that are straight and contains no gaps.
- (e) No asymmetric appearance stemming from longitudinal grooves or ridges in the surface.
- (f) A pavement treatment having complete aggregate coverage with full adherence to the roadway.

409.7.1 The contractor is responsible for any damage claims that are associated with the seal coat until the route is accepted by the engineer.

409.7.1.1 The contractor shall maintain a log of all damage claims for each route on each project. The log shall include the date of the claim, contact information for person

making each claim, and the status of each claim. If a claim is denied, a brief explanation as to why the claim was denied shall also be included. This log shall be updated and a copy provided to the Project Office once every week.

409.7.2 In addition to the requirements of Section 107.11, the following shall apply:

The contractor shall pay 100% of reasonably supported claims for alleged damage from chip sealing operations provided:

- 1) The claimant notifies the contractor within 14 days of the actual work being performed
- 2) The claimant accurately states the route on which the work was performed
- 3) The claimant provides adequate supporting documentation for the claim

409.7.3 The contractor will supply an as-built video of the entire completed chip seal taken 14 days after the work was completed. The video will be taken such that it verifies it includes the entire project limits. A separate video will be submitted to MODOT for each individual route or section of route on which work is performed. Provided the video shows no evidence of aggregate loss, any claims brought to the contractors attention after 14 days should be investigated by the contractor and vetted via their normal claims processes.

O. Additional Flaggers

1.0 Additional flagger(s) and appropriate construction signs shall be provided at location where a work zone extends through an intersections and/or approaches:

2.0 Basis of Payment. There will be no direct pay for all labor and equipment necessary to provide additional flaggers. All cost shall be considered completely covered under the pay items provided in the contract.

P. Bridge Deck Drains

1.0 Description. The contractor shall block all bridge deck drains in such a way to prevent all materials from entering the drains and areas under the bridge.

2.0 Basis of Payment. No direct payment will be made for blocking bridge deck drains.

Q. Railroad Engineering

1.0 Description. In addition to the railroad requirements outlined in JSP R, the contractor shall be aware that the railroad companies, including but not limited to BNSF Railway Company (BNSF RR), Missouri and Northern Arkansas Railway Company (MNA RR) and Union Pacific are likely to place additional requirements regarding oversight of contractor process and review of plans on the portions of this project constructed on Railroad Right of Way. This bid item is being provided to allow the contractor to bid these costs as they anticipate. All such costs should be placed under railroad engineering.

2.0 Requirements. The contractor shall be required to submit plans to the railroad companies for review and approval. The plans shall be signed and sealed by a professional engineer

licensed to practice in the state of Missouri. Examples of plans required for submittal include a track protection plan, lift plan for girder erection (including any tie down requirements during handling/delivery), a forming plan and an excavation/shoring plan.

2.1 The contractor shall receive approval from the BNSF Railway Company and any other impacted railroad company for each plan prior to any work starting that is applicable to the plan.

2.2 If the contractors critical path is impacted by these requirements, it will be considered excusable but not compensable provided the plan is provided to the Railroads representative 45 days prior to the anticipated work starting so they have an opportunity to review. Start dates for individual activities will be determined based on the contractors approved progress schedule.

2.3 For additional information about the requirements for this project, the contractor should call the MNA RR General Manager provided in JSP R.

3.0 Basis of Payment. All costs incurred for complying with this provision to provide track protection plans, lift plans, boomed equipment plans, tie down systems, pouring plans and excavation plans shall be considered completely covered by the contract unit price for Pay Item 618-10.10, Railroad Engineering, per lump sum.

3.1 Any additional requirements made by the RR for signed and sealed plans and other additional requirements not listed in this JSP will be reimbursed to the contractor for actual cost incurred. The contractor shall not receive any overhead or profit to comply with this JSP.

R. Missouri & Northern Arkansas Railroad Requirements

1.0 Introduction.

1.1 These Railroad Requirements set forth terms and conditions agreed between the Missouri & Northern Arkansas Railroad Company, Inc. (Railroad) and the Missouri Highways and Transportation Commission (Commission), under which Railroad will allow the Commission's contractors to enter in and upon Railroad's real property, right of way, tracks and other facilities (Railroad's Property) to perform the contractor's work relating to this project.

1.2 To report an emergency on the Railroad, call: 866-527-3499

1.3 The project is located on the MNA Nevada Subdivision, at Mile Post 538.8, DOT# 443243B in Jasper, MO. **Current FRA data shows 1 daytime trains and 2 nighttime trains and 0 passenger trains per day.**

1.4 Definitions of terms set forth in the current edition of the Missouri Standard Specifications for Highway Construction shall be applicable to those terms as used in these Railroad Requirements.

1.5 Contractor may not access, at any time, any property of the Railroad outside the State's permanent and temporary easements without Railroad's prior, written approval.

2.0 Authority of Railroad Representative and Engineer.

2.1 The authorized representative of the Railroad, herein called "Railroad Representative", shall have final authority in all matters affecting the safe maintenance and operation of railroad traffic including the adequacy of the foundations and structures supporting the railroad tracks.

2.1.1 The Railroad designates the following individual as the Railroad Representative for this project. Except as otherwise provided in these Railroad Requirements, the contractor shall address all notices concerning this project to the Railroad Representative, as follows:

Mr. Greg Feyerabend
General Manager
Missouri & Northern Arkansas Railroad Company, Inc.
514 North Orner
Carthage, MO 64836
Email: Greg.Feyerabend@gwrr.com
TEL: (918) 289-4861 [mobile]

2.1.2 The Railroad, or the individual identified above, may designate a different individual to act as the Railroad Representative for this project, and may change the address information stated above, by giving written notice of the changes to the contractor and to the Engineer, as provided in these Railroad Requirements.

2.2 The authorized representative of the Commission (Engineer) shall have authority over all other matters as prescribed herein and in the project specifications.

3.0 Contractor's Indemnity Obligations to the Railroad. The contractor agrees to indemnify, defend and hold harmless the Railroad from and against any injury or death of persons whomsoever, or from any loss or damage to the Railroad's Property, caused by acts or omissions of the contractor in performing work on this project, whether on, over, under or in the vicinity of the Railroad's Property as more specifically detailed in the Right of Entry Agreement referenced in Section 4.5 below. In the event the contractor shall fail to restore the Railroad's Property immediately to a condition acceptable to the Railroad when any such loss or damage to the Railroad's Property is called to the contractor's attention by the Railroad, then the Railroad may perform such corrective work at the cost of the contractor. In addition to such remedies of the Railroad, the Commission will withhold from final payment due to the contractor the amount reasonably necessary to reimburse the Railroad for such loss or damage or for performing such work. The term "loss or damage" as used herein shall include, but not be limited to, the erosion and silting of, water damage to, and the accidental or intentional placing or dropping of objects on the Railroad's Property.

4.0 Notice of Starting Work. The contractor shall not commence any work on the Railroad's right of way until contractor has complied with the following conditions:

4.1. At least thirty (30) days in advance of the date the contractor proposes to begin work on the Railroad's Property, the contractor has given written notice of the contractor's proposed start date and time to the Railroad Representative, and Railroad's Manager of Track Maintenance (see paragraph 12.2.3 below), with a copy to the Engineer.

4.2 The Commission has obtained written approval from the Railroad's Representative for the contractor's insurance coverage as required by Section 17 of these Railroad Requirements, and authorization for the contractor to begin work on the Railroad's Property.

4.3 The contractor has determined whether fiber optic cable systems are buried on the Railroad's Property. If fiber optic cable systems are buried on the Railroad's Property, then the contractor has contacted the Railroad at the 24 hour number, 800-336-9193, has contacted the telecommunications company involved, has arranged for a cable locator, and has made arrangements for relocation or other protection of the fiber optic cable system on the Railroad's Property.

4.4 The contractor's employees, representatives or agents who are regularly assigned to perform work on the Railroad's Property have been certified as having completed the Internet Safety Orientation available at <https://railpros.com/training/> where contractor needs to complete the course. This certification shall be renewed annually. In addition the contractor shall require that every employee, representative or agent who is not regularly assigned to perform work on the Railroad's Property has received appropriate safety training before performing any work on the Railroad's property. The cost of the Internet Safety Orientation, which is subject to change, is currently \$75 per person per year.

4.5 Right of Entry. At least forty five (45) days in advance of the date the contractor proposes to begin work on the Railroad's Property, the contractor shall enter into a Right of Entry Agreement with Railroad prior to working on Railroad property. The application for Right of Entry Agreement can be found at the following address:

<http://www.gwrr.com/real-estate/accessing-property/>

4.5.1 The applicant must submit the completed application to the Real Estate Department including a check or money order, to cover the non-refundable fee of \$1,750 made payable to the Railroad. The application must include railroad milepost, railroad subdivision, and scope of work.

4.5.2 Upon approval of the application, the Real Estate Department will draft an agreement and forward to the applicant for signature. **Application does not guarantee approval.** The applicant must then return the signed document to the Real Estate Department along with the pertinent certificate of insurance outlined in the agreement. Once in receipt of these documents, the agreement will then be executed on behalf of the Railroad.

5.0 Interference with Railroad's Operations.

5.1 The Railroad's right of way is located within the limits of this project. The contractor shall take care to insure that it will not drop any debris or material on the Railroad's Property.

5.2 The contractor shall arrange and conduct all of the contractor's work so that it causes no interference with the Railroad's operations, including train, signal, telephone, telegraphic services, damage to the Railroad's Property, poles, wires and other facilities of tenants on the Railroad's Property. Whenever the contractor's work may directly affect the operations or safety of trains, the contractor shall submit a written description of the method of doing such work to the Railroad Representative for approval, but such approval shall not relieve the contractor from liability resulting from the contractor's work. Any work to be performed by the contractor that requires flagging service shall be deferred by the contractor until the flagging services are available at the job site.

5.3 Whenever the contractor's work upon the Railroad's Property will unavoidably cause an impediment to the Railroad's operations, such as requiring the use of runaround tracks or reduced

train speed, the contractor should schedule and conduct these operations so that this impediment is reduced to the absolute minimum.

5.4 If conditions arising from, or in connection with the work require immediate and unusual provisions to protect the Railroad's operations and property, the contractor shall make such provisions. If in the judgment of the Railroad Representative, or the Engineer if the Railroad Representative is absent, such provision is insufficient, then the Railroad Representative or Engineer may require or provide such provisions as he/she deems necessary. In any event, the contractor shall make such provisions at the contractor's expense, and without cost to the Railroad or the Commission.

6.0 Track Clearances. During construction, the contractor shall maintain not less than the minimum track clearances as shown on the project plans. However, before undertaking any work within the Railroad's Property and before placing any obstruction over any track, the contractor shall:

6.1 Notify the Railroad Representative at least ten (10) days in advance of the proposed work.

6.2 Receive assurance from the Railroad Representative that arrangements have been made for flagging service as may be necessary.

6.3. Receive permission from the Railroad Representative to proceed with the work, as provided in section 4.0.

6.4. Confirm that the Engineer has received copies of the contractor's notice to the Railroad, and of the Railroad's response.

7.0 Construction Procedures.

7.1. General. The contractor's work on the Railroad's property shall be performed in accordance with these Railroad Requirements and shall be subject to the Railroad's inspection and review. The contractor shall submit plans that shall be signed, sealed, and stamped in accordance with the laws relating to Architects and Professional Engineers, Chapter 327, RSMo, for the demolition of any structure over Railroad right of way, and for temporary shoring and falsework that may affect the Railroad's facilities or traffic.

7.2 Excavation. The contractor shall maintain the subgrade of an operated track with the beam edge at least 12 feet from centerline of track and not more than 26 inches below top of rail, unless the existing section fails to meet this specification, in which case the contractor shall maintain the existing section.

8.0 Maintenance of Railroad Facilities. Within the project limits, the contractor shall maintain Railroad's Property, including all ditches and drainage structures, free of silt or other obstructions that may result from contractor's operations. The contractor shall promptly repair eroded areas within the Railroad's Property and repair any other damage to the Railroad's Property or the Railroad's tenants. The contractor shall perform all such maintenance and repair of damages due to the contractor's operations at the contractor's expense.

9.0 Storage of Materials and Equipment.

9.1 The contractor shall obtain permission from the Railroad Representative before storing any materials or equipment anywhere on Railroad's Property. The Railroad will not ordinarily permit storage within twenty-five feet (25') from the centerline of any track, or within three hundred feet (300') from any grade crossing. The Railroad will not be liable for damage to such material and equipment from any cause, and the Railroad Representative may move such material and equipment or require the contractor to move it, at the contractor's expense.

9.2 The contractor shall not leave unattended any grading or construction machinery parked upon Railroad's Property, unless it is effectively immobilized so that unauthorized persons cannot move such machinery.

10.0 Cleanup. Upon completion of the work, the contractor shall remove from within the limits of the Railroad's Property all machinery, equipment, surplus materials, falsework, rubbish or temporary buildings of the contractor's and shall leave Railroad's Property in a neat condition satisfactory to the Railroad Representative.

11.0 Damages. The Railroad shall not assume liability for any damages to the contractor, contractor's work, employees, servants, equipment and materials caused by the Railroad's traffic. However, the preceding sentence shall not exempt the Railroad from liability for any loss, damage or injury proximately caused by the Railroad's intentional misconduct or sole or gross negligence. The contractor shall directly reimburse the Railroad for any cost the Railroad reasonably incurs for repairing damages to the Railroad's Property or to property of the Railroad's tenants, caused by or resulting from the operations of the contractor relating to this project.

12.0 Flagging Services.

12.1 When Flagging is Required. The Railroad has sole authority to determine the need for flagging to protect the Railroad's operations. Whenever the Railroad requires flagging services with reference to any of the contractor's work on this project, the contractor shall not perform any such work until all required flaggers are present at the job site.

12.1.1 In general, the Railroad may require flagging services whenever the contractor's personnel or equipment are, or are likely to be, working on the Railroad's Property, or across, over, adjacent to, or under a track, or when such work has disturbed or is likely to disturb a railroad structure or the railroad roadbed or surface and alignment of any track to such extent that the movement of trains must be controlled by flagging, to prevent unreasonable risks of accidental hazard to the Railroad's operations or personnel.

12.1.2 Normally the Railroad will assign one flagger to a project; but in some cases, more than one may be necessary, such as yard limits where the Railroad may assign up to three flaggers. However, if the contractor works within the distances that violate instructions given by the Railroad Representative, or performs work upon or adjacent to Railroad's Property that has not been scheduled with the Railroad Representative, the Railroad may require flagging services full time until the project is completed.

12.2 Scheduling and Notification of Flagging Services.

12.2.1 The contractor shall arrange with the Railroad all flagging services required by the Railroad to accomplish the contractor's work on this project.

12.2.2 Before the contractor begins work on the Railroad's Property, the contractor shall furnish to the Railroad Representative and the Engineer a schedule for all work required to complete the contractor's portion of the project within the Railroad's Property and shall arrange for a job site meeting between the contractor, the Engineer, and the Railroad Representative. Until the contractor has provided its work schedule and met on-site with the Railroad Representative and the Engineer, the Railroad may withhold all flagging services from the contractor's proposed job site. Before the flagger(s) begin each day's work, the flagger(s) and the contractor shall meet to conduct a job briefing.

12.2.3 Before the contractor first begins any work upon or adjacent to the Railroad's Property, the contractor shall give not less than thirty (30) days' advance notice to the Railroad, and to the Engineer, of its intent to begin such work. The contractor shall address all notices relating to flagging to the Railroad as follows:

Mr. Greg Feyerabend
General Manager
Missouri & Northern Arkansas Railroad Company, Inc.
514 North Orner
Carthage, MO 64836
Email: Greg.Feyerabend@gwrr.com
TEL: (918) 289-4861 [mobile]

12.2.4 The Railroad usually assigns one flagger to work at the job site on a continuous basis until the contractor no longer needs flagging services. The contractor shall not call for flagging services on a spot basis. The Railroad's assigned flagger shall notify the Engineer when flagging services have begun and ended. The flagger shall give these notices immediately upon arrival at the job site on the first day, and before departing from the job site on the last day of each separate period when the Railroad provides flagging services, or as soon as possible thereafter. The Engineer shall document these notifications in the project records.

12.2.5 After the contractor has begun work that requires flagging services, the contractor shall give not less than five (5) day's advance written notice to the Railroad before discontinuing flagging services and terminating the obligation to pay for flagging services. The contractor shall simultaneously provide a copy of this notice to the Engineer. If the contractor's work on or adjacent to the Railroad's Property is suspended at any time, or for any reason, then before the contractor resumes any work on or adjacent to the Railroad's Property, the contractor shall give advance, written notice to the Railroad and to the Engineer of its intent to resume such work. This notice shall provide sufficient details of the contractor's proposed work to enable the Railroad Representative to determine whether flagging services will be required before the contractor resumes its work on or adjacent to the Railroad's Property. The contractor shall give this required notice at least three (3) working days before it intends to resume such work; however, the Railroad may take up to thirty (30) days after the contractor has given this notice before resuming flagging services at the job site. The requirements of this paragraph 12.2.5 shall not apply if the suspension and resumption of the contractor's work were previously scheduled with the Railroad pursuant to paragraph 12.2.2 of these Railroad Requirements, or the suspension was caused by an emergency as provided in paragraph 12.2.6 of these Railroad Requirements.

12.2.6 If, after the Railroad has assigned a flagger to the project site in accordance with section 12.0, any emergency requires the flagger's presence elsewhere, then the contractor shall suspend work on the Railroad's Property until the flagger is again available. Any additional costs

to the contractor resulting from such delay shall be borne by the contractor and not by the Railroad.

12.3 Payment for Flagging Services.

12.3.1 The Commission will pay the Railroad directly for the cost of flagging services associated with this project by deducting the amount from the Commission's payments to the contractor.

12.3.2 The estimated cost of flagging services is approximately \$1,200 per day, based on an 8-hour workday and a 40-hour work week. The Railroad shall charge not more than its actual cost of providing these flagging services, which includes the base pay for the flagger or flaggers who actually performed the required flagging services, the Railroad's reasonable overhead costs, and the reasonable costs actually incurred for the flagger's travel expenses, meals and lodging if required. The Railroad may charge a maximum of one-hour travel time each way per day per flagger, for travel to and from the job site. A flagger's work in excess of 8 hours per day or 40 hours per week, but not more than 12 hours per day, will result in a pay rate of \$225 per hour after 8 hours. If a flagger performs required flagging services on a holiday, then the pay rate shall be \$225 per hour for all hours worked on the holiday. The Commission also shall reimburse the Railroad for its actual expenses reasonably incurred in preparing and handling invoices to the Commission for the cost of these flagging services. The Railroad's charges to the Commission shall be in accordance with applicable provisions of the Federal Aid Policy Guide issued by the Federal Highway Administration, including all current amendments.

12.3.3 The Railroad shall submit progress invoices to the Engineer during the time the Railroad requires flagging services. The Railroad shall submit its final invoice for flagging services to the Engineer within one hundred eighty (180) days after the contractor has notified the Railroad and the Commission that all its work over the Railroad's Property is complete, in accordance with section 18.0 below. If the Commission does not receive the Railroad's final flagging invoice within this time period, then the Railroad shall obtain payment directly from the contractor.

12.3.4 If a dispute arises between the Railroad, the Commission and the contractor concerning the amount charged for flagging service, then the Commission may deduct the full amount of the Railroad's invoice from the contractor's payment, until the dispute is resolved.

12.4 Flagging Complaints. The contractor and the Railroad shall attempt to resolve any complaints concerning flagging services in a timely manner. If the contractor disputes the need for a flagger, the contractor shall notify the Railroad Engineer and the Engineer. The contractor shall confirm any verbal complaints in writing within five (5) working days, by sending a copy to the Railroad Representative and to the Engineer.

13.0 Temporary Construction Grade Crossing.

13.1 When the contractor has no reasonable alternate method of transporting construction materials and personnel across the Railroad's track, the contractor shall make all necessary arrangements with the Railroad for the installation, maintenance and removal of one temporary grade crossing for a construction haul road including, without limitation, entering into Railroad's then current form of Temporary Private Grade Crossing Agreement. The contractor shall bear all costs incidental to such crossings, including flagging, whether services are performed by contractor's own forces or by the Railroad's personnel. The contractor shall execute the Railroad's standard Road Crossing Agreement covering terms and conditions for the temporary crossing.

13.2 Neither the contractor nor the Railroad shall construct any crossing for use by the contractor for transporting materials or equipment across the tracks of the Railroad until the Railroad Representative specifically authorizes the installation, maintenance, necessary watching and flagging thereof and removal, which shall be done at the contractor's expense.

14.0 Work for the Benefit of the Contractors. The project plans show all temporary or permanent changes in wire lines or other facilities that are necessary to complete the project, or these changes will be covered by appropriate plan revisions approved by the Commission and the Railroad. If the contractor desires any further changes, the contractor shall make separate arrangements with the Railroad for those changes, at the contractor's expense.

15.0 Cooperation and Delays. The contractor shall arrange a schedule with the Railroad for accomplishing staged construction involving work by the Railroad or tenants of the Railroad. In arranging a schedule, the contractor shall request information from the Railroad, and the Railroad shall promptly provide information concerning the minimum lead-time required for assembling crews and materials. The contractor shall schedule adequate time for those activities. The contractor shall not make any claim against the Railroad for hindrance or delay on account of railway traffic for:

15.1 Any work the Railroad performs.

15.2 Other delay incident to or necessary for the safe maintenance of railway traffic.

15.3 Any delays due to compliance with these Railroad Requirements.

16.0 Trainman's Walkways. The contractor shall maintain along the outer side of each exterior track of multiple operated tracks, and on each side of single operated track, an unobstructed continuous space suitable for trainman's use in walking along trains, extending to a line not less than 12 feet from the centerline of the track. Before the close of each workday, the contractor shall remove all temporary impediments to walkways and track drainage encroachments or obstructions that were allowed during work hours when flagging services were available. Whenever the contractor excavates or maintains any excavation near the walkway, the contractor shall install a handrail with 12 feet minimum clearance from the centerline of the track.

17.0 Insurance.

17.1 General Insurance Provisions. The contractor shall, at its sole cost and expense, procure and continuously maintain in force during this project, the insurance coverage required under this section 17 until the contractor has completed all project work on the Railroad's Property, has removed all equipment and materials from the Railroad's Property, and has cleaned and restored the Railroad's Property to the satisfaction of the Engineer and the Railroad Representative. The amount of work to be performed upon, over or under the Railroad's Property is estimated to be one percent (1%) of the contractor's total bid for the project.

17.2 Commercial General Liability Insurance. The contractor shall maintain commercial general liability ("CGL") insurance with a limit of not less than \$2,000,000 for each occurrence and an aggregate limit of not less than \$6,000,000. CGL insurance must be written on ISO occurrence form CG 00 01 12 04 (or a substitute form providing equivalent coverage). The policy must contain the following endorsement, which must be stated on the certificate of insurance: "Contractual Liability Railroads" ISO form CG 24 17 10 01 (or a substitute form providing

equivalent coverage) showing "**Missouri & Northern Arkansas Railroad Company Property**" as the Designated Job Site.

17.3 Business Automobile Coverage Insurance. The contractor shall maintain business auto coverage written on ISO form CA 00 01 (or a substitute form providing equivalent liability coverage) with a combined single limit of not less than \$5,000,000 for each accident. The policy must contain the following endorsements, which must be stated on the certificate of insurance: "Coverage For Certain Operations In Connection With Railroads" ISO form CA 20 70 10 01 (or a substitute form providing equivalent coverage) showing "Missouri & Northern Arkansas Railroad Company Property" as the Designated Job Site; and Motor Carrier Act Endorsement - Hazardous Materials Clean Up (MCS-90) if required by law.

17.4 Workers' Compensation and Employers' Liability Insurance. The contractor shall maintain workers' compensation insurance coverage, with not less than the minimum statutory liability required under the workers' compensation laws of the State of Missouri. The contractor shall maintain Employers' Liability (Part B) insurance coverage with limits of at least \$500,000 for each accident, a \$500,000 disease policy limit, and \$500,000 for each employee. If the contractor is self-insured, then the contractor shall provide evidence of state approval and excess workers' compensation coverage, which must include coverage for liability arising out of the U. S. Longshoremen's and Harbor Workers' Act, the Jones Act, and the Outer Continental Shelf Land Act, if applicable. The policy must contain the following endorsement, which must be stated on the certificate of insurance: "Alternate Employer Endorsement" ISO form WC 00 03 01 A (or a substitute form providing equivalent coverage) showing the Railroad in the schedule as the alternate employer (or a substitute form providing equivalent coverage).

17.6 Railroad Protective Liability Insurance. The contractor must maintain Railroad Protective Liability insurance written on ISO occurrence form CG 00 35 12 04 (or a substitute form providing equivalent coverage) on behalf of the Railroad as named insured, with a limit of not less than \$2,000,000 per occurrence and an aggregate limit of \$6,000,000. Before commencing any work on the Railroad's Property, the contractor shall submit the original insurance policy to the Railroad or may submit a binder stating that the required Railroad Protective Liability policy is in place until the contractor delivers the original policy to the Railroad. The contractor shall cause the Railroad Protective Liability Insurance policy to include a description of the named insured, the work, and the job site, as follows:

17.6.1 Named Insured. The Named Insured on the Railroad Protective Liability Insurance policy shall be Missouri & Northern Arkansas Railroad Company, Inc.

17.6.2 Description and Designation. The description of the work and designation of the job site to be shown on the Railroad Protective Liability Insurance policy are as follows:

Seal coat up to both sides of crossing.
Job No. JSR0324 Jasper County, Route H
DOT# 443243B MNA Nevada Sub, Mile Post 538.8 in Jasper, MO.

17.7 Umbrella or Excess Insurance. If the contractor utilizes umbrella or excess insurance policies, these policies must "follow form" and afford no less coverage than the primary policy.

17.8 Pollution Liability Insurance. The contractor shall maintain pollution liability insurance coverage, which must be written on ISO form Pollution Liability Coverage Form Designated Sites CG 00 39 12 04 (or a substitute form providing equivalent liability coverage), with limits of at least

\$5,000,000 per occurrence and an aggregate limit of \$10,000,000. If the scope of work as defined in this Project includes the disposal of any hazardous or non-hazardous materials from the job site, the contractor must furnish to the Railroad evidence of pollution legal liability insurance maintained by the disposal site operator for losses arising from the insured facility accepting the materials, with coverage in minimum amounts of \$1,000,000 per loss, and an annual aggregate of \$2,000,000.

17.9 Other Insurance Requirements.

17.9.1. Each policy required above (except workers' compensation and employers' liability) must include the Railroad and its affiliated companies, including but not limited to Genesee & Wyoming, Inc. as "Additional Insured" using ISO Additional Insured Endorsements CG 20 26, and CA 20 48 (or substitute forms providing equivalent coverage). The coverage provided to the Railroad as an additional insured shall, to the extent provided under ISO Additional Insured Endorsement CG 20 26 and CA 20 48, provide coverage for the Railroad's negligence whether sole or partial, active or passive.

17.9.2 Where allowable by law, the punitive damage exclusion shall be deleted, and the deletion shall be indicated on the certificate of insurance.

17.9.3 The contractor waives all rights of recovery, and its insurers also waive all rights of subrogation of damages against the Railroad and its agents, officers, directors and employees, except that these waivers shall not apply to punitive damages, nor to any loss, damage or injury proximately caused by the Railroad's intentional misconduct or sole or gross negligence. The certificate of insurance shall acknowledge these waivers.

17.9.4 Prior to commencing any work on the Railroad's Property, the contractor shall furnish the Railroad with one or more certificates of insurance, executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements set forth in this Section 17.

17.9.5 The contractor shall only obtain insurance policies written by a reputable insurance company acceptable to the Railroad, or which currently has a Best's Insurance Guide Rating of "A-" and Class VII or better, and which is authorized to do business in the State of Missouri.

17.9.6 The fact that insurance is obtained by the contractor or by the Railroad on behalf of the contractor will not be deemed to release or diminish the liability of the contractor, including, without limitation, liability under the indemnity provisions contained in Section 3.0 of these Railroad Requirements. Damages recoverable by the Railroad from the contractor or any third party will not be limited by the amount of the required insurance coverage, except to the extent of any payments the Railroad has received pursuant to insurance coverage obtained and paid for by the contractor.

17.10 Evidence of Insurance. The contractor shall provide evidence of insurance as required above to the addresses shown below, for review by the Commission and approval by the Railroad.

Railroad

Mr. Michael R. Morningstar
Director of Risk Management and Claims
Genesee & Wyoming Railroad Services,
Inc.
13901 Sutton Park Drive South

Commission

Ms. Brandi Baldwin
State Construction & Materials Engineer
MoDOT
P.O. Box 270

Job No.: JSR0324
Route: VARIOUS
County: VARIOUS

Suite 150
Jacksonville, FL 32224
Phone: (904) 900-6258
Fax: (904)223-4618

Jefferson City, MO 65102

17.11 Except as otherwise specifically provided in these Railroad Requirements, the Railroad will not accept binders as evidence of insurance, and the contractor shall provide the Railroad with the original insurance policy.

17.12 Insurance Required of Subcontractors. If any part of the work is sublet, the contractor shall maintain and provide evidence of similar insurance, in the same amounts as required of the prime contractor, to cover the subcontractor's operations. The Railroad will accept endorsements to the prime contractor's policies specifically naming subcontractors and describing the subcontractor's operations, for this purpose.

17.13 Cancellation of Insurance. The contractor and its insurers shall not cancel any of the required insurance coverage, except by permission of the Commission and the Railroad, or after thirty (30) days' written notice to the Commission and the Railroad at the addresses shown in subsection 17.10.

18.0 Completion of Work on Railroad's Property. The contractor shall notify Engineer and Railroad's Representative when the contractor has completed its work on Railroad's Property.

19.0 Failure to Comply. If the contractor violates or fails to comply with any of these Railroad Requirements, then the Railroad Engineer may require that the contractor vacate the Railroad's property and the Engineer may withhold all monies due to the contractor until the contractor has remedied the situation to the satisfaction of the Railroad Engineer and the Engineer.

20.0 Payment for Cost of Compliance. The contractor is not entitled to any separate payment for any extra cost it may incur on account of compliance with these Railroad Requirements. The contractor shall include all such costs in the contract unit price for items properly authorized in the contract.