#### DESIGN DESIGNATION

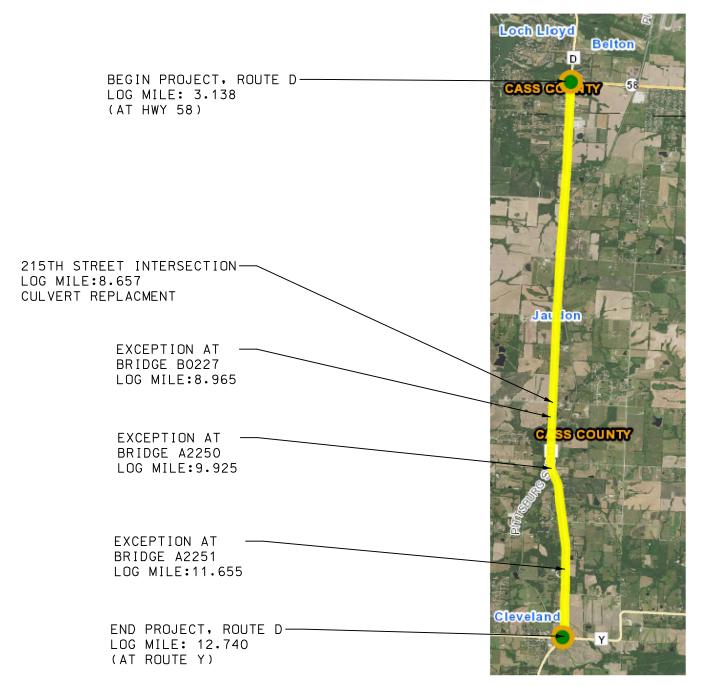
A.A.D.T. - 2025 = 1548 V = 45-55 M.P.H.

### MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

## PLANS FOR PROPOSED STATE HIGHWAY

CASS COUNTY









#### INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (1 SHEET)	2
QUANTITIES (QU) (3 SHEETS)	3
PLAN SHEET (PP)	4
REFERENCE POINTS (RP)	5
COORDINATE POINTS (CP)	6
SPECIAL SHEET (SS)	7
TRAFFIC CONTROL SHEETS (TC)	8 - 13
CULVERT SECTION (CS)	14
CROSS SECTIONS (XS)	1 - 2

OF MISSON PUHR NUMBER NUMBER PO10000073 PO11000073 PO11000073 PO11000073 DOTE PNEPARED DATE PREPARED								
	/2024							
ROUTE D	MO MO							
DISTRICT SHEET NO.								
KC	-							
COU	NTY .SS							
COU CA JOB	NTY SS NO.							
COU CA JOB JKU	NTY .SS							
COU CA JOB JKU	NTY SS NO. D045							
COU CA JOB JKU( CONTRA	NTY SS NO. D045							
COU CA JOB JKU( CONTRA	NTY SS NO. 0045 CT ID.							
COU CA JOB JKU( CONTRA	NTY SS NO. DO45							
COU CA JOB JKU( CONTRA	NTY SS NO. 0045 CT ID.							

# STATION DATE DESCRIPTION CAPITOL MO 65102

#### LENGTH OF PROJECT

ROUTE D:

BEGINNING OF PROJECT BEGIN LOG MILE: 3.138 5 END OF PROJECT END LOG MILE: 12.740

APPARENT LENGTH 9.602 MILES

EQUATIONS AND EXCEPTIONS:

EXCEPTION AT BRIDGE B0227
60 FEET = 0.011 MILES

EXCEPTION AT BRIDGE A2250

265 FEET = 0.050 MILES

EXCEPTION AT BRIDGE A2251 175 FEET = 0.033 MILES

TOTAL CORRECTIONS 0.094 MILES
NET LENGTH OF PROJECT 9.508 MILES
STATE LENGTH 9.508 MILES

FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES 0.027 ACRES

138 740 LES WISSOURI HIGHWAYS AND T COMMISSION LES LES LAT 2550 LES

PROJECT DESCRIPTION:
CONTRACT LEVELING COURSE,

1" PLANT MIX BITUMINOUS PAVEMENT
PG64-22 (SURFACE LEVELING)

	ASPHALT OVERLAY										
LOG MILE	LOG MILE	NET	DESCRIPTION	AREA	1" BIT.	25%	TACK	REMARKS			
		LENGTH			SURFACE	IRREGULARITIES	COAT				
					LEVELING	THE COLL WITTES	0 08 GAL/SYD				
		1 1					0.00 GAL/31D				
					1.975 TONS/CY						
		MILES		SQ YD	TONS	TONS	GAL				
3.138	3.497	0.359	2-12' LANES W/ 10' SHOULDERS	9,266.99	508.40	127.10	741.36				
3.497	3.616	0.119	2-12' LANES W/ 4' SHOULDER/ 10' SHOULDER	2,652.91	145.54	36.39	212.23				
3.616	7.165	3.549	2-12' LANES WITH 2' SHOULDERS	58,298.24	3,198.31	799.58	4,663.86				
7.165	8.978	1.813	2-10' LANES WITH 2' SHOULDERS	25,527.04	1,400.44	350.11	2,382.52				
8.978	8.989		60' LONG BRIDGE B0227								
8.989	9.895	0.906	2-10' LANES WITH 2' SHOULDERS	12,756.48	699.83	174.96	1,190.60				
9.895	9.945		265' BRIDGE A2250								
9.945	11.695	1.750	2-10' LANES WITH 2' SHOULDERS	24,640.00	1,351.78	337.95	2,299.73				
11.695	11.728		175' BRIDGE A2251								
11.728	12.740	1.012	2-10' LANES WITH 2' SHOULDERS	14,248.96	781.71	195.43	1,329.90				
	3.597		174TH STREET TERRACE	177.22	9.72	2.43	14.18	INTERSECTION EXCESS			
	3.885		177TH STREET	119.44	6.55	1.64	9.56	INTERSECTION EXCESS			
	4.643		183RD STREET	69.71	3.82	0.96	5.58	INTERSECTION EXCESS			
	5.145		187TH STREET	132.05	7.24	1.81	10.56	INTERSECTION EXCESS			
	6.155		195TH STREET	246.67	13.53	3.38	19.73	INTERSECTION EXCESS			
	7.159		203RD STREET	173.14	9.50	2.38	13.85	INTERSECTION EXCESS			
	8.672		215TH STREET	111.67	6.13	1.53	8.93	INTERSECTION EXCESS			
	9.684		223RD STREET	204.11	11.20	2.80	16.33	INTERSECTION EXCESS			
			ASPHALT ENTRANCES	173.73	9.53	2.38	13.90	FLAIR OUT AT ASPHALT DRIVEWAYS			
	TOTAL	9.508		PAY TOTAL	10,2	204.1	12,933				

MOBILIZATION
1 LUMP SUM

	GRAVEL ENTRANCES AND EDGING										
DESCRIPTION	CRIPTION AREA		PERMANENT	REMARKS							
		OR CRUSHED	AGGREGATE								
		STONE B	EDGE TREATMENT								
		1.4 TONS/CY	90 TONS/MILE								
	SQ YD	TON	TONS								
GRAVEL DRIVEWAYS	465.33	18.10		SIXTY-NINE DRIVEWAYS							
GRAVEL STREETS	313.33	12.19		EIGHT STREETS							
EDGE OF ROAD			855.72	9.508 MILES							
	PAY TOTAL	30	855.7								

	BITUMINOUS RUMBLE STRIP EDGE LINE										
LOG MILE	LOG MILE	RIGHT EDGE	CENTER	REMARKS							
		LINE LINE LINE		LINE							
		STA. STA.		STA.							
3.677	6.777	160.68	160.68	163.68	* EXEMPT ALL ROAD ENTERSECTIONS						
7.637	12.237	240.88	241.88	242.88	EXEMPT BRIDGES						
	PAY TOTAL	804	4.1	406.6	* NOTED FOR EDGE LINES						

	COLDMILLING									
LOG MILE	LOG MILE	DESCRIPTION	MODIFIED	REMARKS						
			COLDMILLING							
			SQ YD							
3.138	3.147	FIRST 50' OF PROJECT	438.89							
8.978	8.987	50' BEFORE/AFTER BRIDGE	311.11	BRIDGE NO. B0227						
9.895	9.905	50' BEFORE/AFTER BRIDGE	422.22	BRIDGE NO. A2250						
11.695	11.704	50' BEFORE/AFTER BRIDGE	422.22	BRIDGE NO. A2251						
		CONCRETE DRIVEWAYS	101.33	FIVE DRIVEWAYS						
15.893	15.902	LAST 50' OF PROJECT	444.44							
	3.597	174TH STREET TERRACE	177.22	AROUND RADIUS RETUR						
	3.885	177TH STREET	119.44	AROUND RADIUS RETUR						
	4.643	183RD STREET	69.71	AROUND RADIUS RETUR						
	5.145	187TH STREET	132.05	AROUND RADIUS RETUR						
	6.155	195TH STREET	246.67	AROUND RADIUS RETUR						
	7.159	203RD STREET	173.14	AROUND RADIUS RETUR						
	8.672	215TH STREET	111.67	AROUND RADIUS RETUR						
	9.684	223RD STREET	204.11	AROUND RADIUS RETUR						
		PAY TOTAL	3,374							

LOG MILE	LOG MILE	4" SOLID	4" INT	4" SOLID	REMARKS
		YELLOW	YELLOW	WHITE	
		(L.F.)	(L.F.)	(L.F.)	
3.138	3.198	1,273.60	,	633.60	
3.198	3.637	4,635.84		4,635.84	
3.637	3.737	528.00	132.00	1,056.00	
3.737	3.776	411.84		411.84	
3.776	3.936	1,689.60	422.40	1,689.60	
3.936	4.056	633.60		1,267.20	
4.056	4.416	1,900.80	475.20	3,801.60	
4.416	4.497	855.36		855.36	
4.497	4.617	633.60	158.40	1,267.20	
4.617	4.676	623.04		623.04	
4.676	4.777	533.28	133.32	1,066.56	
4.777	4.917	1,478.40		1,478.40	
4.917	5.117	1,056.00	264.00	2,112.00	
5.117	5.316		262.68	2,101.44	
5.316	5.757	2,328.48	582.12	4,656.96	
5.757	5.855		129.36	1,034.88	
5.855	6.316	2,434.08	608.52	4,868.16	
6.316	6.397		106.92	855.36	
6.397	6.579	960.96	240.24	1,921.92	
6.579	6.637		76.56	612.48	
6.637	6.857	1,161.60	290.40	2,323.20	
6.857	8.838		2,614.92	20,919.36	
8.838	9.219	2,011.68	502.92	4,023.36	
9.219	9.338	1,256.64		1,256.64	
9.338	9.816	2,523.84	630.96	5,047.68	
9.816	9.956	1,478.40		1,478.40	
9.956	10.055	522.72	130.68	1,045.44	
10.055	11.777		2,273.04	18,184.32	
11.777	11.957	950.40	237.60	1,900.80	
11.957	12.216	2,735.04		2,735.04	
12.216	12.556	1,795.20	448.80	3,590.40	
12.556	12.740	1,943.04		1,943.04	
174TH STREET TERRACE	3.597			-145.00	EXEMPT ROAD ENTRANCES
177TH STREET	3.885			-70.00	EXEMPT ROAD ENTRANCES
183RD STREET	4.643			-55.00	EXEMPT ROAD ENTRANCES
187TH STREET	5.145			-130.00	EXEMPT ROAD ENTRANCES
195TH STREET	6.155			-130.00	EXEMPT ROAD ENTRANCES
203RD STREET	7.159			-130.00	EXEMPT ROAD ENTRANCES
215TH STREET	8.672			-140.00	EXEMPT ROAD ENTRANCES
223RD STREET	9.684 SUBTOTAL		076 *	-100.00 100.497*	EXEMPT ROAD ENTRANCES

SUMMARY OF QUANTITIES
SHEET 1 OF 3

DISTRICT SHEET NO.

COUNTY CASS

JOB NO.

JKU0045

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

MADOT

1.888-ASK-MODOT

1.888-ASK-MODOT

1.888-ASK-MODOT

1.888-ASK-MODOT

1.888-ASK-MODOT

1.888-ASK-MODOT

1.888-25K-6636)

CLC ONLY SHEET

	REMOVAL OF IMPROVEMENTS - CULVERT REPLACEMENT											
SHEET	STATION	STATION	LOCATION	SIDE	DESCRIPTION	UNITS	QUANTITY	REMARK				
NO.												
4	397+05.65		RTE D	RT & LT	CONC. HEADWALL	EACH	2	EXISTING RCB				
4	398+78.06		RTE D		FULL DEPTH SAW CUT	LF	25.1					
4	397+16.70		RTE D		FULL DEPTH SAW CUT	LF	29.6					
							1 LUMP SUM					

ADDITIONAL MOBILIZATION FOR SEEDING

EACH = 4

CONTRACTOR FURNISHED SURVEYING AND STAKING

LUMP SUM = 1

	DRAINAGE STRUCTURES - CULVERT REPLACEMENT											
SHEET	STATION	STATION	OFFSET	LOCATION	CLASS 3	LINEAR	ROCK	FLOWABLE	30 IN.	30 IN.	REMARK	
NO.					EXCAVATION	GRADING	LINING	BACKFILL	RCP	GROUP A		
						CLASS 2				FES		
					(C.Y.)	(STA.)	(C.Y.)	(C.Y.)	(L.F.)	(EACH)		
4	396+94.71			RTE D	56							
4	396+58.00	397+25.00	RT & LT	RTE D		2						
4	396+91.92			RTE D			4		33.25	2	FES RT & LT	
4	396+97.50			RTE D			4		33.25	2	FES RT & LT	
4	397+05.65			RTE D				10			FILL EXIST. RBC	
				SUBTOTAL	56	2	8	10	66.5	4		
				PAY TOTAL	56	2	8	10	67	4		

	PAVEMENT AND SHOULDER TREATMENT											
SHEET	STATION	STATION	OFFSET	LOCATION	TYPE 1 AGG	R. FOR BASE	TYPE A3	OPTIONAL	REMARK			
NO.					MAINLINE	W 215TH ST	SHOULDER	PAVEMENT				
					(S.Y.)	(S.Y.)	(S.Y.)	(S.Y.)				
4	396+78.06	397+16.70		RTE D	92			92				
4	396+78.06	397+16.70	RT	RTE D	8.8		8.8					
4	396+78.06	397+07.70	LT	RTE D	6.4		6.4					
4	397+09.00	397+16.70	RT	RTE D		1.5			AGGR. SURFACE W 215TH ST			
	SUBTOTAL 107.2 1.5 15.2 92											
				PAY TOTAL	10	)9	15.2	92	]			

STA	STANDARD ACRYLIC WATERBORNE MARKING PAINT 4" - CULVERT REPLACEMENT											
SHEET	STATION	STATION	LOCATION	4" SOLID	4" INT.	4" SOLID	REMARKS					
NO.				YELLOW	YELLOW	WHITE						
				(L.F.)	(L.F.)	(L.F.)						
4	396+68	397+27	RTE D RT			59						
4	396+68	397+27	RTE D CENTER		20							
4	396+68	397+27	RTE D LT			59						
	SUBTOTAL	FROM SHEET	T 1 OF 3	49,	076	100,497						
	PAY TOTAL				096	100.615						

	EROSION & SEDIMENT CONTROL										
SHEET	STATION	STATION	OFFSET	LOCATION	SEEDING - COOL	ALT. DITCH	SEDIMENT	TYPE 2C EROSION	REMARK		
NO.					SEASON MIX.	CHECK	REMOVAL	CONRTOL BLANKET			
					(ACRE)	(L.F.)	(EACH)	(S.Y.)			
4	396+52.00	396+89.00	RT	RTE D		18	2		2 @ 37' SPACING		
4	397+00.00	397+17.00	RT	RTE D		30	3		3 @ 15' SPACING		
4	396+36.00	396+86.00	LT	RTE D		22	2		2 @ 50' SPACING		
4	397+10.00	397+15.00	LT	RTE D		60	4		4 @ 9' SPACING, N/O E 215TH ST		
4	397+17.00		LT	RTE D		14	1		1 @ 19' SPACING, N/O E 215TH ST		
4	397+19.00	397+20.00	LT	RTE D		30	2		2 @ 37' SPACING, N/O E 215TH ST		
4	396+78.00	397+25.00	RT	RTE D				48			
4	396+58.00	397+25.00	LT	RTE D				86			
-	396+58.00	397+25.00	RT & LT	RTE D	0.1						
				SUBTOTAL	0.1	174	14	134			
				PAYTOTAL	0.1	174	14	134			

OF MISSON

DOE LYNN

PUHR

NUMBER

PE-2014000073

DATE PREPARED

T/9/2024

ROUTE

D

MO

DISTRICT SHEET NO.

KC

3

COUNTY

CASS

JOB NO.

JKU0045

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
LEFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CULVERT REPLACEMENT SHEET

	CONSTRUCTION SIGNING									
SIGN NO.	SIGN	SIZE (in.)	AREA	QTY.	TOTAL AREA (ft.²)	DESCRIPTION				
2 **	WO20-1	48 × 48	16.00	13	208.00	ROAD WORK AHEAD				
7	W020-4	48 × 48	16.00	9	144.00	ONE LANE ROAD AHEAD				
8	W020-7a	48 × 48	16.00	13	208.00	FLAGGER (SYMBOL) WITH FLAGS				
1)*	G020-1	60 × 24	10.00	2	20.00	ROAD WORK NEXT XX MILES 1 2-XX MILES				
26	G020-2	48 × 24	8.00	2	16.00	END ROAD WORK				
35)	WO8-12	48 × 48	16.00	5	80.00	NO CENTER LINE				
36	WO8-11	48 × 48	16.00	5	80.00	UNEVEN LANES				
<b>(53)</b>	G020-4	36 × 18	4.5	5	22.50	PILOT CAR FOLLOW ME				
(58)	G020-4a	42 × 30	8.75	5	43.75	PILOT CAR IN USE WAIT & FOLLOW				
58	G020-4a	18 × 12	1.50	5	7.50	PILOT CAR IN USE WAIT & FOLLOW				
11)	WO3-4	48 × 48	16.00	5	80.00	BE PREPARED TO STOP				
59	CONST-8	48 × 36	12.00	2	24.00	WORK ZONE NO PHONE ZONE				
56	CONST-7	48 × 24	8.00	0	00.00	RATE OUR WORK ZONE				
	GO22-1	21 X 15	2.19	2	4.38	WET PAINT (ARROW PIVOTS)				
616-10 CONSTR	.05 UCTION SIGN	NS TOTAL			938					

ITEM NO.	QTY. (Ea.)	DESCRIPTION
616-10.25	50	CHANNELIZERS (TRIM-LINE)

ITEM NO.	QTY. (Ea.)	DESCRIPTION
616-10.98A	5	CHANGEABLE MESSAGE SIGN

\* IF LESS THAN TWO (2) MILES, DELETE SIGN NO. 1.

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

NOTE:

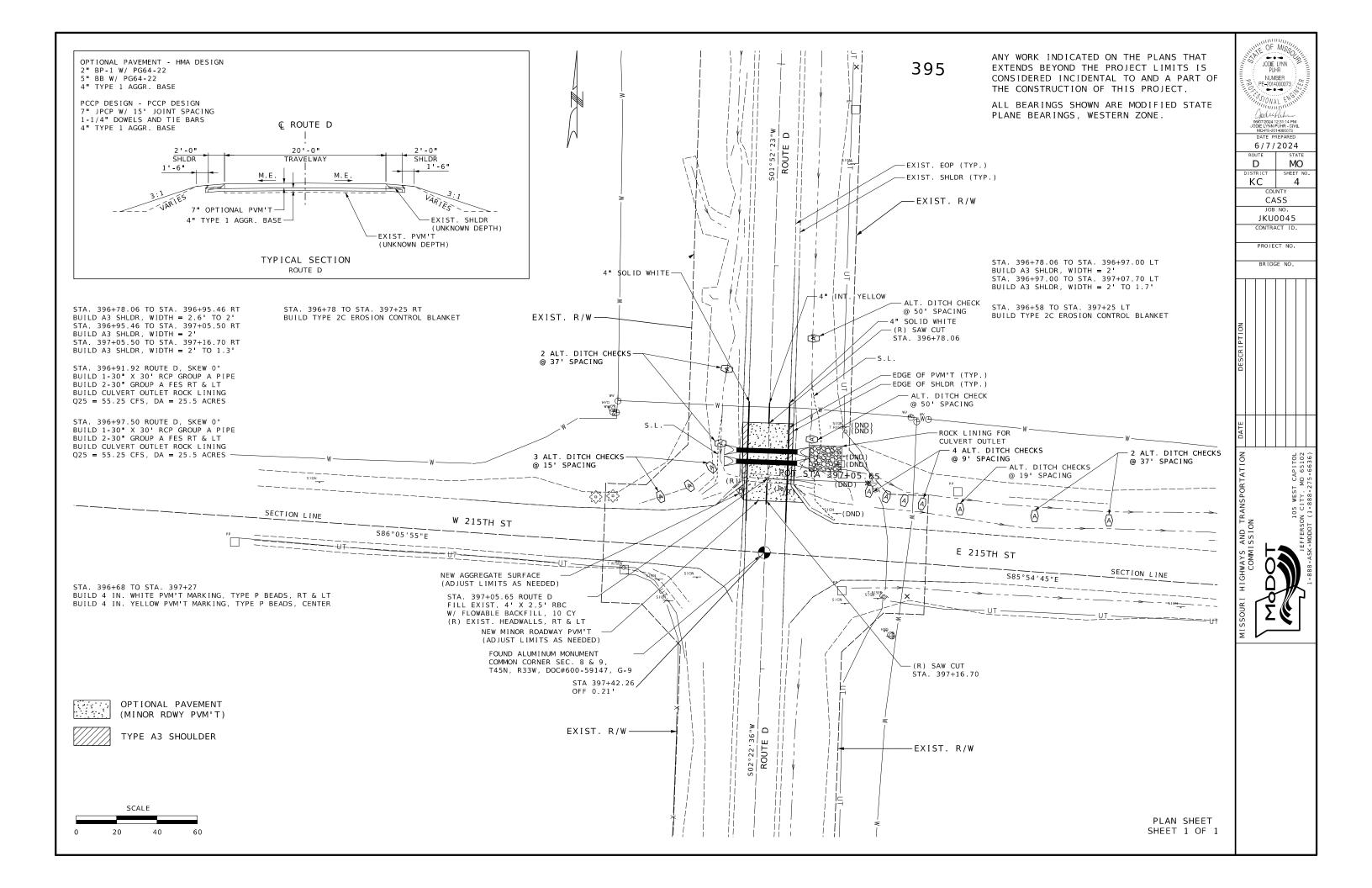
REFER TO STANDARD PLAN 616.10 AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.

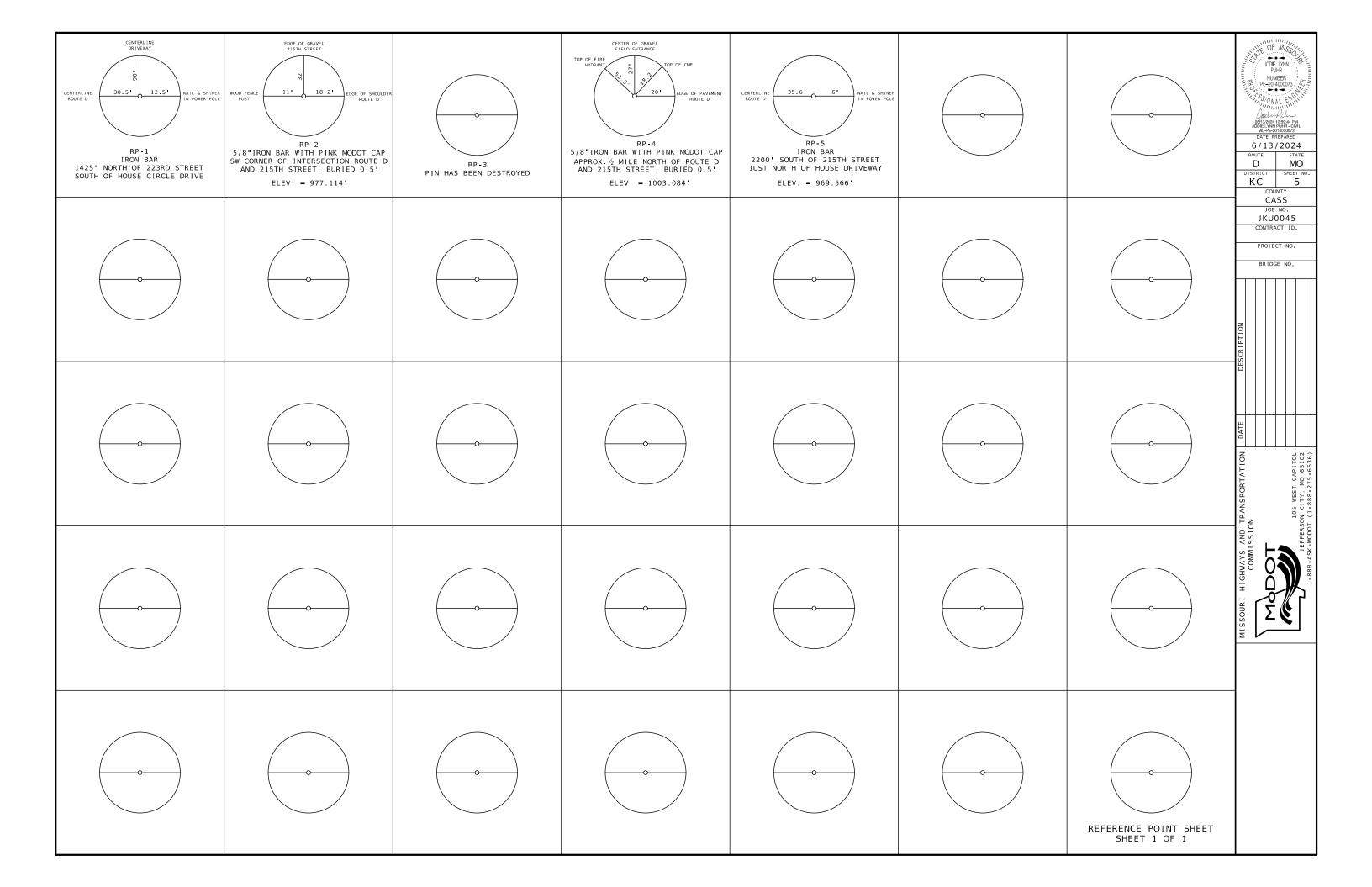
JODE LYNN
PUHR
NUMBER
PE-2014000073 DATE PREPARED 7/9/2024 ##**D**## MO DISTRICT SHEET NO.
###### 3 CASS JOB NO.

JKU0045

CONTRACT ID. PROJECT NO. BRIDGE NO.

TEMPORARY TRAFFIC CONTROL





ALL PROJECT COORDINATES HAVE BEEN PROJECTED FROM THE MISSOURI STATE PLANE COORDINATE (SPC) SYSTEM OF 1983 USING AN AVERAGE PROJECT PROJECTION (GRID TO GROUND) FACTOR. TO GET BACK TO STATE PLANE COORDINATES, MULTIPY THE PROJECT COORDINATES BY THE AVERAGE GRID FACTOR AS SHOWN IN THE "REFERENCE CONTROL INFORMATION" PORTION OF THIS TABLE.

I	PROJECT COORDINATE INFORMATION					
COORDINATE SYSTEM   MODIFIED STATE PLANE(GROUND)						
I	HORIZONTAL DATUM	NAD88				
I	VERTICAL DATUM	NAVD88				
I	GEOID MODEL	GEOID18				
I	ELEVATIONS	GPS OBSERVATION				
I	DETERMINED BY	GPS OBSERVATION				
I	PROJECT PROJECTION	FACTOR	1.00009901			

REFERENCE	CONTROL	INFORM	1AT I ON

REFERENCE CONTROL THI ORMATION						
COORDINATE SYSTE	M I	МО	COORDIN	ATE	SYSTEM OF	1983
CONTROL STATION		МО	GEOGRAP	HIC	REFERENCE	SYSTEM
DESIGNATION	CA-	-53				
CORS_ID	XX					
PID	37053					
LATITUDE	38°43'36.49243"					
LONGITUDE	94°35'26.26084"					
NORTHING (M)	284	4,1	26.7400			
EASTING (M)	842	2,1	19.5830			
ZONE	WES	ST				
PROJECT AVERAGE	GR I	D	FACTOR	0.9	9990100	

#### EXAMPLE OF PROJECT COORDINATE TO S.P.C.

PROJECT NORTHING X AVERAGE GRID FACTOR
= STATE PLANE NORTHING
PROJECT EASTING X AVERAGE GRID FACTOR
= STATE PLANE EASTING

EXAMPLE: CONTROL POINT #2 N 936,157.7860 X 0.99990100 = N 936,065.1064 E 2,763,192.5150 X 0.99990100 = E 2,762,951.1508

#### LINEAR UNIT CONVERSION

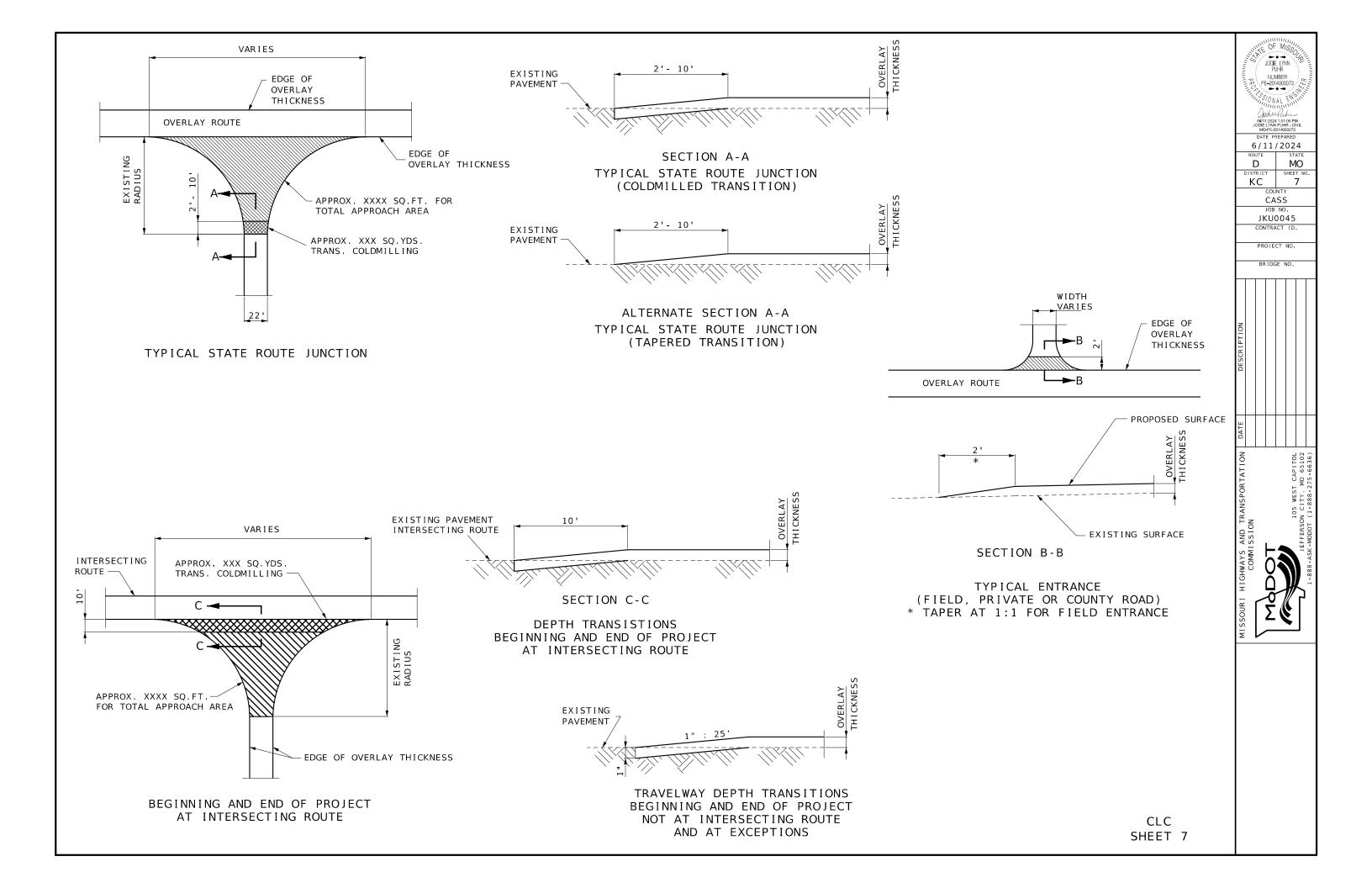
1 METER = 3.280833333 US SURVEY FEET (USFT)

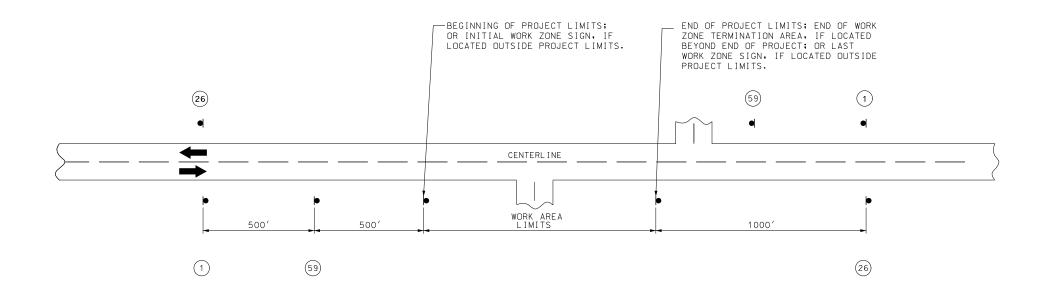
	COORDINATE POINT LISTING										
				MODIFIE	D STATE PLANE (	GROUND)					
			OFFSET	NORTHING	EASTING	ELEVATION		GPK			
SHEET NO	STATION	LOCATION	(USFT)	(US SURVEY FT)	(US SURVEY FT)	(US SURVEY FT)	DESCRIPTION	POINT ID			
PROJECT CO	NTROL POINTS	5									
	397+83.14	RTE D SURVEY ©	30.85 RT	936,157.7860	2,763,192.5150	977.1140	CONTROL POINT #2	2			
	398+47.42	RTE D SURVEY ©	38.99' RT	936,093.8690	2,763,181.9030	975.4900	CONTROL POINT #3	3			
	N/A	RTE D SURVEY ©	N/A	938,728.7730	2,763,271.9240	1,003.0840	CONTROL POINT #4	4			
	419+35.32	RTE D SURVEY ©	35.56' LT	934,004.6470	2,763,175.8790	969.5660	CONTROL POINT #5	5			
AL I GNMENTS											
	379+26.83	RTE D SURVEY ©	0	938,011.9012	2,763,284.4711		BEGIN RET D CHAIN	5			
	397+05.65	RTE D SURVEY ©	0	936,243.0310	2,763,226.3315		PI RTE D CHAIN	COGO POINT			
	419+58.20	RTE D SURVEY ©	0	933,983.1564	2,763,139.4697		END RTE D CHAIN	19			

October 1:00:42 PM
October 1:00:42 PM
JODIE LYNN PUHR - CIVIL
MO-PE-2014000073
DATE PREPARED 6/13/2024 D MO SHEET NO. KC 6 CASS JOB NO. JKU0045 CONTRACT ID. PROJECT NO. BRIDGE NO.

JODIE LYNN
PUHR
NUMBER
PE-2014000073

188/ONAL ENGINE





SIGN (1) AND (26) ARE ONLY USED ON PROJECT LENGTHS 2 MILES OR GREATER.

PROVIDE SIGNS IN EACH DIRECTION ON TWO-WAY HIGHWAY.

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.



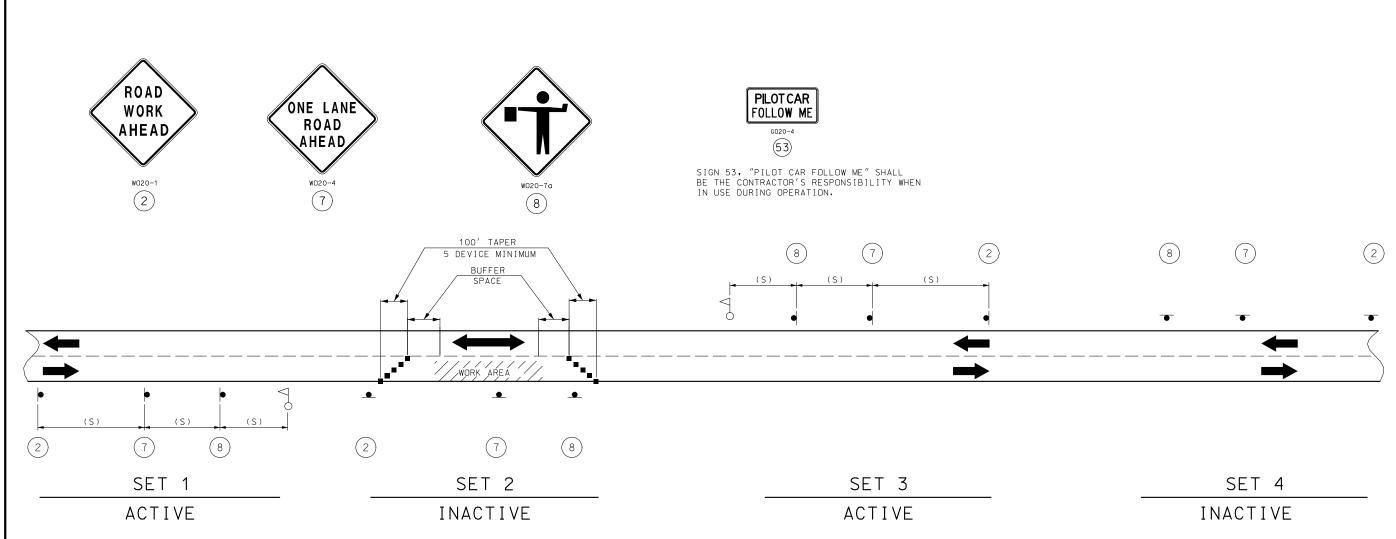
JODE LYNN PUHR NUMBER PE-2014000073 adufah. 6/13/2024 ROUTE D MO SHEET NO. KC 8 CASS JOB NO.
JKU0045
CONTRACT ID. PROJECT NO. BRIDGE NO.

END

ROAD WORK

G020-2

26)



DAYLIGHT FLAGGING OPERATIONS ONLY.

CHANNELIZING DEVICES LOCATED DOWNSTREAM OF THE ONE-LANE, TWO-WAY TAPER ARE OPTIONAL. THESE DEVICES SHOULD BE ELIMINATED WHEN THEIR USE WILL REDUCE THE USABLE LANE WIDTH, INCLUDING ANY ACCEPTABLE SHOULDERS, TO LESS THAN 10' OR WILL SIGNIFICANTLY AFFECT THE RESURFACING OPERATION.

SIGN SETS 1 AND 3 ARE ACTIVE AND (I.E., SIGNS FACE ONCOMING TRAFFIC) SIGN SETS 2 AND 4 ARE INACTIVE (I.E., SIGNS DO NOT FACE EITHER DIRECTION OF TRAFFIC) WHEN THE RESURFACING OPERATION IS LOCATED BETWEEN SIGN SETS 1 AND 3.

WHEN SIGN SETS 2 AND 4 ARE ACTIVE, SIGN SETS 1 AND 3 BECOME INACTIVE AND ARE ADVANCED TO BECOME SETS 2 AND 4 WITH SIGN LEGENDS TURNED AWAY FROM BOTH DIRECTIONS OF TRAFFIC. WHEN THE RESURFACING OPERATION ADVANCES TO BETWEEN SIGN SETS 2 AND 4, SIGN SETS 2 AND 4 BECOME ACTIVE (I.E., NEW SIGN SETS 1 AND 3) AND SIGN SETS 1 AND 3 ADVANCED IN THE DIRECTION OF THE OPERATION (I.E., NEW SIGN SETS 2 AND 4).

- CHANNELIZERS

- FLAGGER

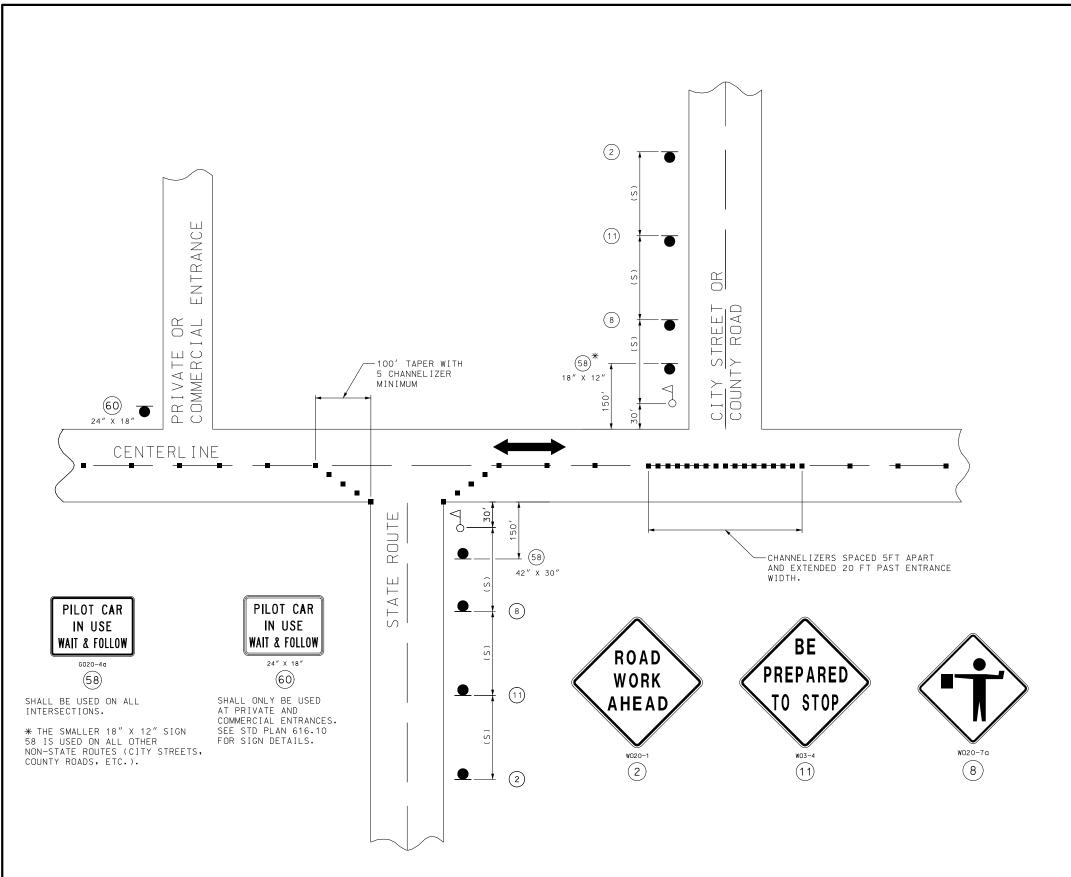
SPEED	SIGN SPACING (FT) (1)	BUFFER SPACE
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	LENGTH (FT)
0-35	200	250
40-45	350	360
50-55	500	495
60-70	1000	730

(1) SPACING BETWEEN SIGNS, BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER OR SIGNED CONDITION.

SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

TRAFFIC CONTROL SHEET 2 OF 6

NUMBER PE-2014000073 INTESSIONAL EN 06/11/2024 1:03:39 PM JODIE LYNN PUHR - CIVIL MO-PE-2014000073 DATE PREPARED 6/11/2024 D MO SHEET NO KC 9 CASS JOB NO. JKU0045 CONTRACT ID. PROJECT NO. BRIDGE NO.



SPEED	SIGN SPACING (FT) (1)	CHANNELIZER SPACING (FT)
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	BUFFER/ WORK AREA (TYP.)
0-35	200	40
40-45	350	80
50-55	500	80
60-70	1000	120

(1) SPACING BETWEEN SIGNS, BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER OR SIGNED CONDITION.

SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

NOTES

WARNING SIGNS SHALL BE ERECTED AT EACH INTERSECTION WITH ANOTHER STATE HIGHWAY WITHIN THE WORK ZONE.

ADDITIONAL WARNING SIGNS SHALL BE ERECTED AT OTHER INTERSECTIONS WITHIN THE WORK ZONE, AS DIRECTED BY THE ENGINEER.

- CHANNELIZERS (AS SPECIFIED)

- FLAGGER

NOT TO SCALE

JODE LYNN
JODE LYNN
PUHR
NUMBER
PE-2014000073

SONAL ENGINE
OCT. 170224 104 25 PM.

O611/2024 1:04:25 PM
JODIE LYNN PUHR - CIVIL
MO-PE-2014000073

DATE PREPARED
6/11/2024

ROUTE STATE

ROUTE STATE
D MO
DISTRICT SHEET NO.
KC 10

COUNTY
CASS

JOB NO.
JKU0045
CONTRACT ID.

PROJECT NO.

DESCRIPTION

COMMISSION
COMMISSION
COMMISSION

105 WEST CAPITOL

105 WEST CAPITOL

105 WEST CAPITOL

106 WEST CAPITOL

107 WEST CAPITOL

107 WEST CAPITOL

108 WEST CAPITOL

109 WEST CAPITOL

107 WEST CAPITOL

107 WEST CAPITOL

108 WEST CAPITOL

109 WEST CAPITOL

107 WEST CAPITOL

107 WEST CAPITOL

108 WEST CAPITOL

109 WEST CAPITOL

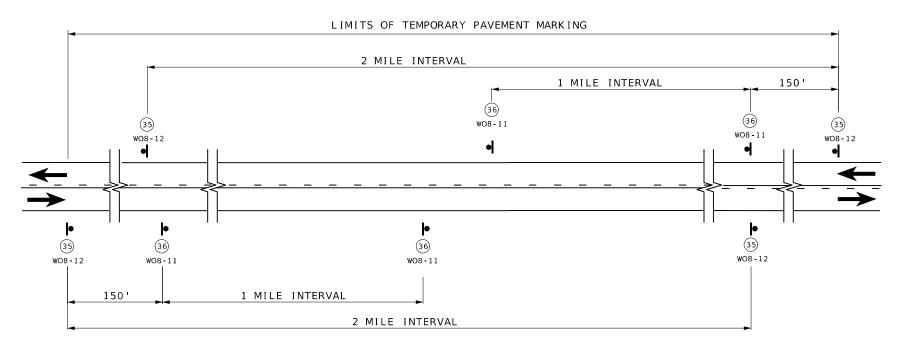
107 WEST CAPITOL

107 WEST CAPITOL

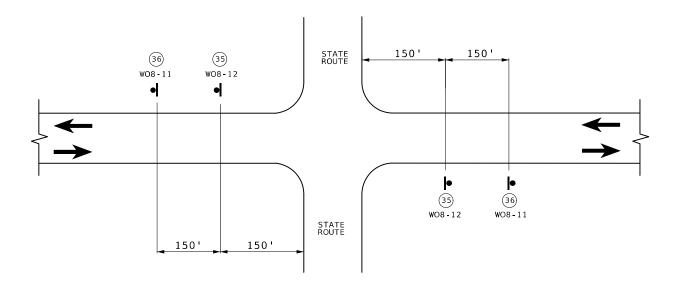
108 WEST CAPITOL

109 WEST CAPIT

TRAFFIC CONTROL SHEET 3 OF 6



SIGN SPACING AND TEMPORARY STRIPING FOR MAINLINE



SIGN SPACING AT STATE ROUTE INTERSECTIONS SHOWING TEMPORARY STRIPING FOR MAINLINE





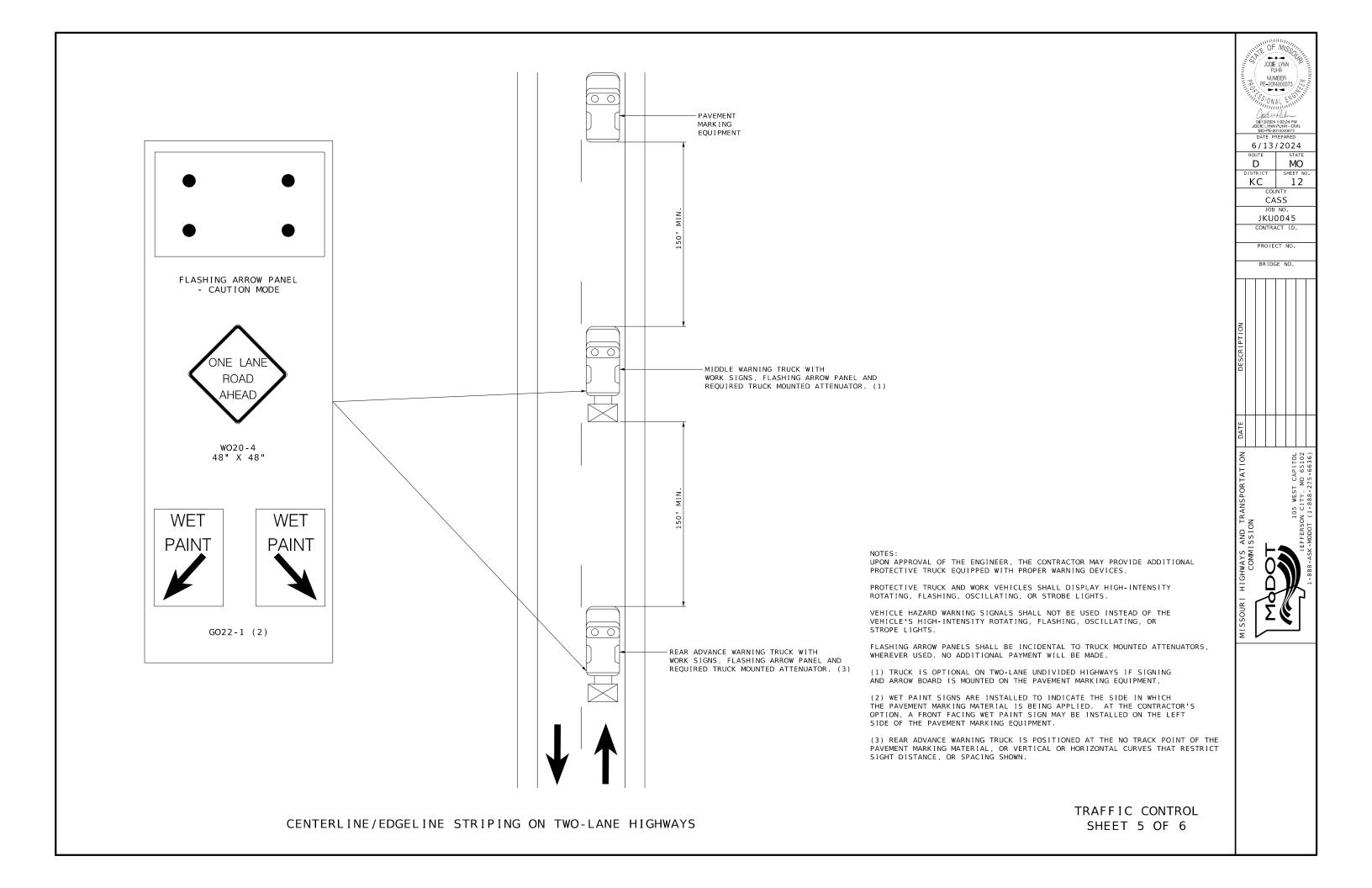
SIGN 35 AND TEMPORARY RAISED PAVEMENT MARKING (SEE STANDARD PLAN 620.10) INSTALLED WHERE CENTERLINE STRIPING HAS BEEN COVERED OR REMOVED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE PERMANENT CENTERLINE PAVEMENT MARKINGS ARE IN PLACE. SIGNS SHALL BE COVERED OR REMOVED WHEN PAVEMENT CENTERLINE MARKING HAS BEEN INSTALLED.

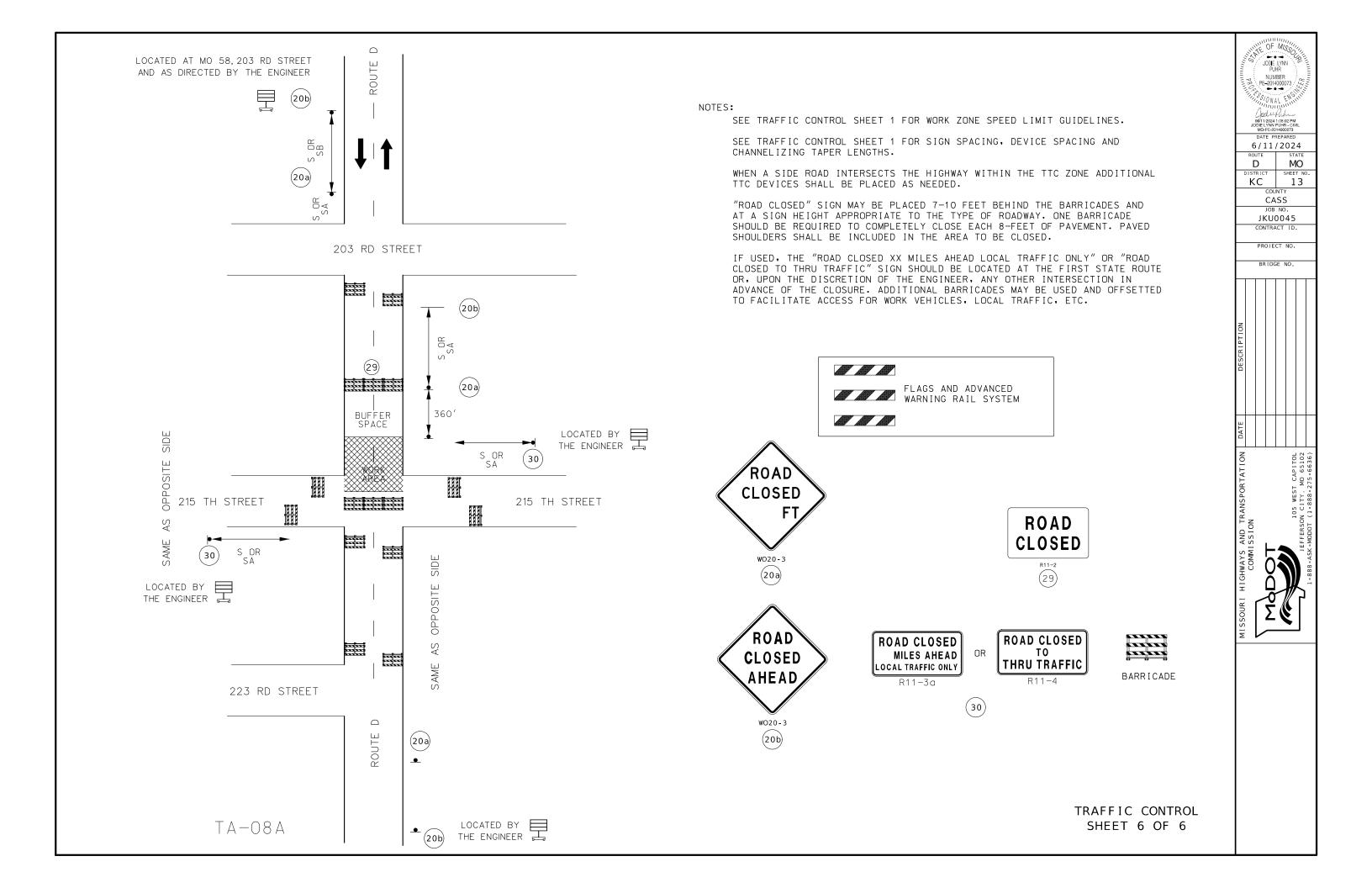
SIGN 35 IS PLACED AT APPROXIMATELY TWO-MILE INTERVALS AND AT STATE ROUTE JUNCTIONS. WHEN THE INSTALLATION AT A JUNCTION IS WITHIN ONE-EIGHTH MILE OF THE NORMAL MAINLINE SIGN 35 , THE LATTER MAY BE ELIMINATED.

ALL SIGNS SHALL BE POST MOUNTED AND IN ACCORDANCE WITH STANDARD PLAN 616.10 AND 903.03.

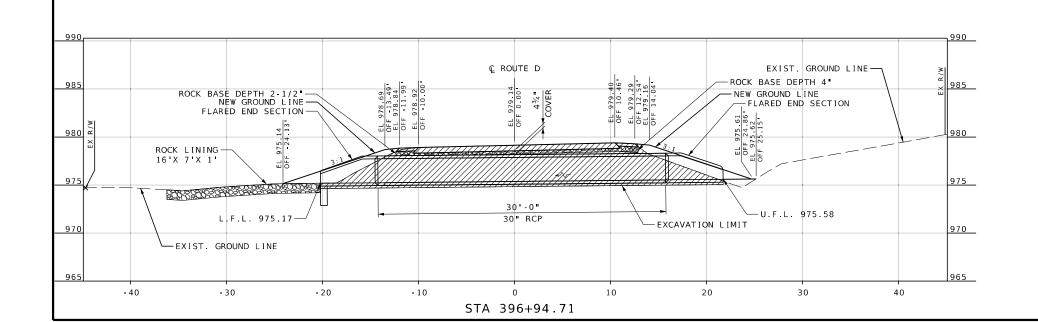


TRAFFIC CONTROL SHEET 4 OF 6





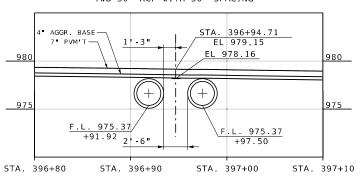
NOTE: MATCH EXISTING PAVEMENT SLOPE AND WIDTH



CENTERED ON STA. 397+94.71 ROUTE D
STA. 396+91.92 ROUTE D
BUILD 1-30" X 30' RCP GROUP A PIPE
BUILD 2-30" GROUP A CONC. FLARED END SECTIONS
SKEW = 0°
CL. 3 EXC. = 27.9 C.Y.
ROCK LINING FOR CULVERT OUTLET = 4 C.Y.
STA. 396+97.50 ROUTE D
BUILD 1-30" X 30' RCP GROUP A PIPES
BUILD 2-30" GROUP A CONC. FLARED END SECTIONS
SKEW = 0°
CL. 3 EXC. = 27.9 C.Y.
ROCK LINING FOR CULVERT OUTLET = 4 C.Y.

D.A. = 25.5 ACRES Q25 = 55.25 CFS S = 0.980%

CROSS SECTION VIEW OF ROUTE D OVER TWO 30" RCP WITH 30" SPACING



CULVERT SECTION SHEET

NUMBER PE-2014000073

> 06/13/2024 1:52:50 PM JODIE LYNN PUHR - CIVIL MO-PE-2014000073 DATE PREPARED 6/13/2024

JOB NO.
JKU0045
CONTRACT ID.

PROJECT NO.

MO

14

D

KC

#### DESIGN DESIGNATION

A.A.D.T. - 2024 = 3800 A.A.D.T. - 2044 = 4600 D.H.V. = 500 T = 8% V = 45 M.P.H.

FUNCTIONAL CLASSIFICATION-MAJOR COLLECTOR

NO RIGHT OF WAY WILL BE ACQUIRED FOR THIS PROJECT

#### CONVENTIONAL SYMBOLS

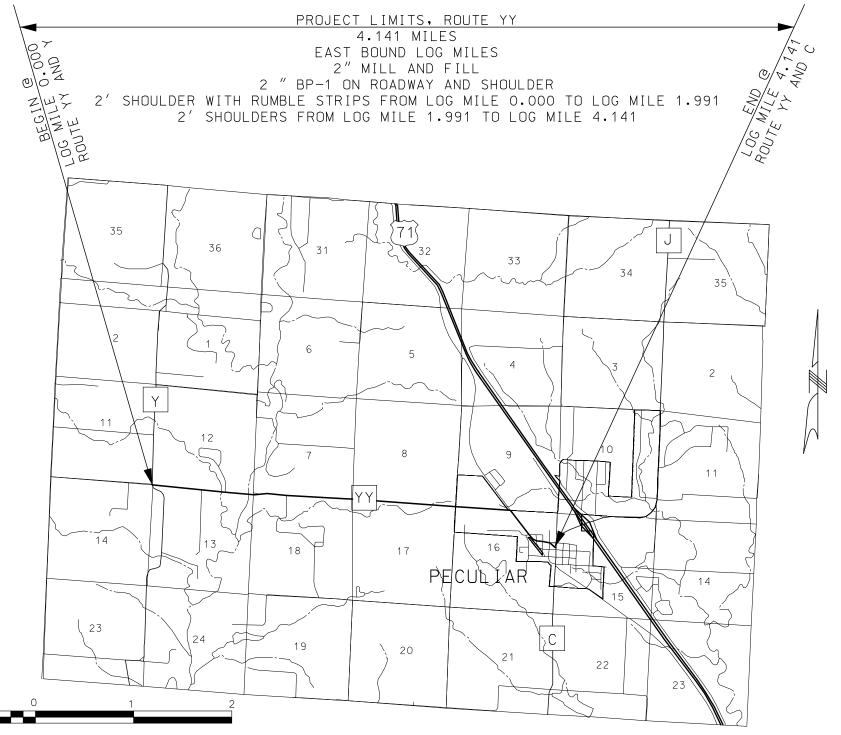
(USED IN PLANS	)	
	EXISTING	NEW
BUILDINGS AND STRUCTURES GUARD RAIL GUARD CABLE CONCRETE RIGHT-OF-WAY MARKER STEEL RIGHT-OF-WAY MARKER LOCATION SURVEY MARKER UTILITIES	0000	
FIBER OPTICS OVERHEAD CABLE TV UNDERGROUND CABLE TV OVERHEAD TELEPHONE UNDERGROUND TELEPHONE OVERHEAD POWER UNDERGROUND POWER SANITARY SEWER STORM SEWER GAS WATER	- F0- -OTV- -UTV- - OT- - UT- - OE- - UE- - SS- - G- - W-	-F0 -0TV -UTV -0T -UT -0E -VE -S -SS -SS
MANHOLE	SAN	$\ni$
FIRE HYDRANT	HAD	ĵ
WATER VALVE	wv wm	€
WATER METER	₩ ⊕	€
DROP INLET	• 🗀	
DITCH BLOCK	-	<b>=</b>
GROUND MOUNTED SIGN	SIGN	_
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL FENCE CHAIN LINK WOVEN WIRE GATE POST	—— X   <u>&gt;</u>	; ;
BENCHMARK	(×	ð

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

## MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

# PLANS FOR PROPOSED STATE HIGHWAY

CASS COUNTY



#### SCALE IN MILES

THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

#### INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (1 SHEETS)	2
QUANTITIES (QU) (7 SHEETS)	3
TRAFFIC CONTROL SHEETS (TC)	4-11

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HIM	PROKE	PE- 33/	2014 -2014 		56 NG	INNEER	HIII.	SEALED
	THA	MO-F	M MA PE-20	14000	/ - CI\ 1056			CALLY
DATE PREPARED 4/2/2024								RON I
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PROJECT NO.							SHEET	
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#### LENGTH OF PROJECT

0.000

4.141

BEGINNING LOG MILE OF PROJECT

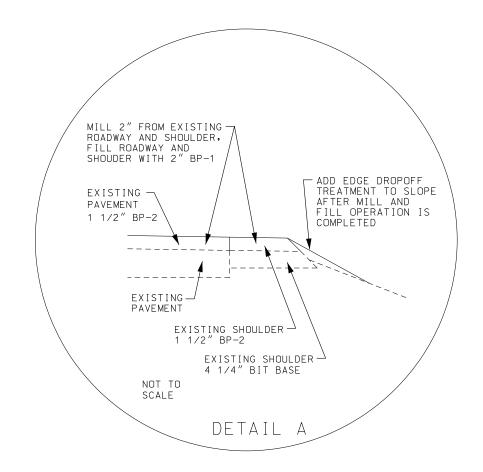
ENDING LOG MILE OF PROJECT

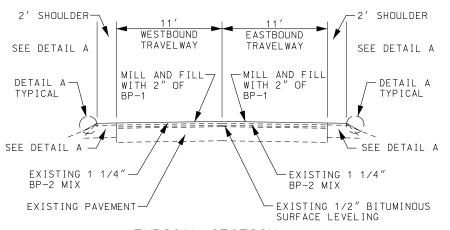
APPARENT LENGTH	4.141	MILES
EQUATIONS AND EXCEPTIONS:		
BRIDGE NO784 OVER EAST CREEK	0 038	MILES

TOTAL CORRECTIONS 198 FEET
NET LENGTH OF PROJECT 21663.8 FEET
STATE LENGTH 4.103 MILES

FOR INFORMATION ONLY
ESTIMATED DISTURBED ACRES 0 ACRES







NOT TO SCALE

TYPICAL SECTION
ROUTE YY
LOG MILE 1.991 TO LOG MILE 4.141

2' SHOULDER 2' SHOULDER SEE DETAIL A SEE DETAIL A WESTBOUND EASTBOUND TRAVELWAY TRAVELWAY 12" RUMBLE-12" RUMBLE STRIPS STRIPS MILL AND FILL-WITH 2" OF -MILL AND FILL WITH 2" OF BP-1 DETAIL A-- DETAIL A TYPICAL TYPICAL SEE DETAIL A -└─ SEE DETAIL A EXISTING 1 1/4" BP-2 MIX EXISTING 1 1/4" EXISTING PAVEMENT--EXISTING 1/2" BITUMINOUS SURFACE LEVELING

NOT TO SCALE

TYPICAL SECTION
ROUTE YY
LOG MILE 0.000 TO LOG MILE 0.936
LOG MILE 0.974 TO LOG MILE 1.991

#### NOTES:

- (1). SURFACE LEVELING MIX SHALL BE A 2" BITUMINUS PAVEMENT (BP-1) MIXTURE PG 64-22.
- (2). SURFACE PLACEMENT SHALL BE ONE PASS PER LANE.
- (3). NO S.E. CORRECTION.
- (4). BITUMINOUS PAVEMENT (BP-1) 1.998 TONS/CY
- (5). TACK COAT 0.1 GAL/SQ.YD.

TYPICAL SECTIONS
SHEET 1 OF 1

THANKAM MATHEW NUMBER 4/2/2024 ΥY MΩ DISTRICT SHEET NO KC CASS JKU0067 CONTRACT ID. PROJECT NO. BRIDGE NO.

	2″ E	BITUMINOU	S PAVEME	ENT MIXTU	RE PG64-22 (	BP-1) (EAST BO	DUND ROADWAY)
EAST BOUND LOG MILE	ТО	EAST BOUND LOG MILE	AVERAGE WIDTH FEET	NET LENGTH FEET	QUANTITY 1.998 TONS/CY TONS	TACK O.1 GAL/SQ.YD. GALLONS	REMARKS
0.000		0.014	58.00	73.92	52.89	47.64	EAST BOUND LANE
0.014		0.019	23.00	26.40	7.49	6.75	EAST BOUND LANE
0.019		0.936	11.00	4841.76	657.00	591.77	EAST BOUND LANE
0.974		3.545	11.00	13574.88	1842.03	1659.15	EAST BOUND LANE
3,545		3.556	11.00	58.08	7.88	7.10	EAST BOUND LANE
3.556		3.562	25.00	31.68	9.77	8.80	EAST BOUND LANE
3.562		4.141	11.00	3057.12	414.83	373.65	EAST BOUND LANE
				SUBTOTAL 1	2991.89	2694.86	

	2″ B	ITUMINOUS	PAVEME	NT MIXTUR	RE PG64-22 (I	BP-1) (EAST BO	UND SHOULDER)
EAST	TO	EAST	AVERAGE	NET	QUANTITY	TACK	REMARKS
BOUND		BOUND	WIDTH	LENGTH	1.998 TONS/CY	O.1 GAL/SQ.YD.	
LOG MILE		LOG MILE	FEET	FEET	TONS	GALLONS	
0.000		0.014	2.00	73.92	1.82	1.64	EAST BOUND SHOULDER
0.014		0.019	2.00	26.40	0.65	0.59	EAST BOUND SHOULDER
0.019		0.936	2.00	4841.76	119.45	107.59	EAST BOUND SHOULDER
0.974		3.545	2.00	13574.88	334.91	301.66	EAST BOUND SHOULDER
3.545		3.556	2.00	58.08	1.43	1.29	EAST BOUND SHOULDER
3.556		3.562	2.00	31.68	0.78	0.70	EAST BOUND SHOULDER
3.562		4.141	2.00	3057.12	75.42	67.94	EAST BOUND SHOULDER
						<u> </u>	
			9	SUBTOTAL 3	534.46	481.41	

		2" BIT	UMINOUS PAVE	MENT MIXTURE	(BP-1) PG64-22, SIDEROADS
OG MILE	AVERAGE	NET	QUANTITY	TACK	REMARKS
	WIDTH	LENGTH	1.998 TONS/CY	0.1 GAL/SQ.YD.	
	FEET	FEET	TONS	GALLONS	
1.340	45	22	12.21	11,00	PEEK ROAD, EAST BOUND LANE
1.998	47	22	12.76	11.49	KNIGHTS ROAD, EAST BOUND LANE
3.021	49	22	13.30	11.98	HARPER ROAD, EAST BOUND LANE
3.021	49	22	13.30	11.98	HARPER ROAD, WEST BOUND LANE
3.118	67	22	18.18	16.38	POINTER DRIVE, EAST BOUND LANE
3.290	61	22	16.55	14.91	QUAIL RIDGE ROAD, EAST BOUND LANE
3.411	64	22	17.37	15.64	QUAIL RIDGE ROAD, EAST BOUND LANE
3.466	64	22	17.37	15.64	MEADOW LANE, EAST BOUND LANE
3.565	85	22	23.07	20.78	PECULIAR DRIVE, EAST & WEST BOUND LANE
3.565	38	22	10.31	9.29	SUMMERSKILL ROAD, WEST BOUND LANE
3.711	53	22	14.38	12.96	WILLOW LANE, EAST BOUND LANE
3.711	47	22	12.76	11.49	WILLOW STREET, WEST BOUND LANE
3.863	35 52	22	9.50 14.11	8.56 12.71	CHAMP STREET, WEST BOUND LANE
3.871		22 22		14.67	SHARI DRIVE, EAST BOUND LANE
3.967 3.967	60 36	22	16.28 9.77	8.80	TRACK SIDE DRIVE, EAST BOUND LANE THIRD STREET, WEST BOUND LANE
4.035	37	22	10.04	9.04	THIRD STREET, WEST BOUND LANE SECOND STREET, EAST BOUND LANE
4.035	26	22	7.06	6.36	SECOND STREET, WEST BOUND LANE
4.103	36	22	9.77	8.80	FIRST STREET, FAST BOUND LANE
4.103	35	22	9.50	8.56	FIRST STREET, WEST BOUND LANE
4.104	26	58	18.60	16.76	NORTH STREET, WEST BOUND LANE
	SUB	TOTAL 5	286.19	257.80	

WEST	TO	WEST	AVERAGE	NET	QUANTITY	TACK	REMARKS
BOUND		BOUND	WIDTH	LENGTH	1.998 TONS/CY	0.1 GAL/SQ.YD.	
OG MILE		LOG MILE	FEET	FEET	TONS	GALLONS	
0.000		0.014	37.00	73.92	33.74	30.39	WEST BOUND LANE
0.014		0.019	12.00	26.40	3.91	3.52	WEST BOUND LANE
0.019		0.936	11.00	4841.76	657.00	591.77	WEST BOUND LANE
0.974		3.545	11.00	13574.88	1842.03	1659.15	WEST BOUND LANE
3.545		3.562	45.00	89.76	49.83	44.88	WEST BOUND LANE
3.562		4.141	11.00	3057.12	414.83	373.65	WEST BOUND LANE
			1	SUBTOTAL 2	3001.34	2703.36	

	2" B	ITUMINOUS	PAVEME	NT MIXTUR	RE PG64-22 (	BP-1) (WEST BO	UND SHOULDER)
WEST	TO	WEST	AVERAGE	NET	QUANTITY	TACK	REMARKS
BOUND		BOUND	WIDTH	LENGTH	1.998 TONS/CY	0.1 GAL/SQ.YD.	
LOG MILE		LOG MILE	FEET	FEET	TONS	GALLONS	
0.000		0.014	2.00	73.92	1.82	1.64	WEST BOUND SHOULDER
0.014		0.019	2.00	26.40	0.65	0.59	WEST BOUND SHOULDER
0.019		0.936	2.00	4841.76	119.45	107.59	WEST BOUND SHOULDER
0.974		3.545	2.00	13574.88	334.91	301.66	WEST BOUND SHOULDER
3.545		3,562	2.00	89.76	2.21	1.99	WEST BOUND SHOULDER
3.562		4.141	2,00	3057.12	75.42	67.94	WEST BOUND SHOULDER
			<u> </u>	SUBTOTAL 4	534.46	481.41	

	ASPHAL TACK QUAI	
	BP-1 TONS	TACK COAT GALLONS
SUBTOTAL 1, EAST BOUND ROADWAY	2991.89	2694.86
SUBTOTAL 2, WEST BOUND ROADWAY	3001.34	2703.36
SUBTOTAL 3, EAST BOUND SHOULDER	534.46	481.41
SUBTOTAL 4, WEST BOUND SHOULDER	534.46	481.41
SUBTOTAL 5, SIDEROADS	286.19	257.80
TOTAL TO DATE	7348.34	6618.84
PAY TOTAL	7348.3	6619

MOBILIZATION
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			BR	IDC	E N	۱0۰		
	DATE DESCRIPTION							
	TRANSPORTATION	NO				105 WEST CAPITOL	SON CITY, MD 65102	T (1-888-275-6636)

	EAST BOUND ROADWAY (COLDMILLING 3" OR LESS)							
EAST BOUND LOG MILE	TO	EAST BOUND LOG MILE	AVERAGE WIDTH FEET	NET LENGTH FEET	EAST BOUND COLDMILLING SQ. YDS.	REMARKS		
0.000		0.014	58.00	73.92	476.37	EAST BOUND LANE		
0.014		0.019	23.00	26.40	67.47	EAST BOUND LANE		
0.019		0.936	11.00	4841.76	5917.71	EAST BOUND LANE		
0.974		3.545	11.00	13574.88	16591.52	EAST BOUND LANE		
3.545		3.556	11.00	58.08	70.99	EAST BOUND LANE		
3.556		3.562	25.00	31.68	88.00	EAST BOUND LANE		
3.562		4.141	11.00	3057.12	3736.48	EAST BOUND LANE		
				SUBTOTAL 1	26948 54			

SUBTOTAL 1	26948.54

	EAST BOUND SHOULDER (COLDMILLING 3" OR LESS)							
EAST BOUND LOG MILE	TO	EAST BOUND LOG MILE	AVERAGE WIDTH FEET	NET LENGTH FEET	EAST BOUND COLDMILLING SQ. YDS.	REMARKS		
0.000		0.014	2.00	73.92	16.43	EAST BOUND SHOULDER		
0.014		0.019	2.00	26.40	5.87	EAST BOUND SHOULDER		
0.019		0.936	2.00	4841.76	1075.95	EAST BOUND SHOULDER		
0.974		3.545	2.00	13574.88	3016.64	EAST BOUND SHOULDER		
3.545		3.556	2.00	58.08	12.91	EAST BOUND SHOULDER		
3.556		3.562	2.00	31.68	7.04	EAST BOUND SHOULDER		
3.562		4.141	2.00	3057.12	679.36	EAST BOUND SHOULDER		
			9	SUBTOTAL 3	4814.20			

		SII	DEROAD (COLD	MILLING 3" OR LESS)
LOG MILE	AVERAGE	NET	EAST BOUND	REMARKS
	WIDTH	LENGTH	COLDMILLING	
	FEET	FEET	SQ. YDS.	
1.340	45	22	110,00	PEEK ROAD, EAST BOUND LANE
1,998	47	22	114.89	KNIGHTS ROAD, EAST BOUND LANE
3.021	49	22	119.78	HARPER ROAD, EAST BOUND LANE
3.021	49	22	119.78	HARPER ROAD, WEST BOUND LANE
3.118	67	22	163.78	POINTER DRIVE, EAST BOUND LANE
3.290	61	22	149.11	QUAIL RIDGE ROAD, EAST BOUND LANE
3.411	64	22	156.44	QUAIL RIDGE ROAD, EAST BOUND LANE
3.466	64	22	156.44	MEADOW LANE, EAST BOUND LANE
3.565	85	22	207.78	PECULIAR DRIVE, EAST & WEST BOUND LANE
3.565	38	22	92.89	SUMMERSKILL ROAD, WEST BOUND LANE
3.711	53	22	129.56	WILLOW LANE, EAST BOUND LANE
3.711	47	22	114.89	WILLOW STREET, WEST BOUND LANE
3.863	35	22	85.56	CHAMP STREET, WEST BOUND LANE
3.871	52	22	127.11	SHARI DRIVE, EAST BOUND LANE
3.967	60	22	146.67	TRACK SIDE DRIVE, EAST BOUND LANE
3.967	36	22	88.00	THIRD STREET, WEST BOUND LANE
4.035	37	22	90.44	SECOND STREET, EAST BOUND LANE
4.035	26	22	63.56	SECOND STREET, WEST BOUND LANE
4.103	36	22	88.00	FIRST STREET, EAST BOUND LANE
4.103	35	22	85.56	FIRST STREET, WEST BOUND LANE
4.104	26	58	167.56	NORTH STREET, WEST BOUND LANE
	SUB	TOTAL 5	2577.80	

MILL 2" OF EXISTING ASPHALT FROM SIDEROADS. THE MILLING OF THE SIDEROADS MAY BE ADJUSTED BY THE ENGINEER IN CHARGE. THE ADJUSTMENT MAY BE NEEDED TO MATCH THE NEW ROADWAY AND SHOULDER ELEVATION AT THE SIDEROAD. PLACE 2" OF BP-1 w/ PG64-22, BACK ON THE SIDEROAD.

		COLDMILLING 3" OR LESS QUANTITIES
		COLDMILLING SQ. YDS.
SUBTOTAL 1, EAST BOUN	ND ROADWAY	26948.54
SUBTOTAL 2, WEST BOUN	ND ROADWAY	27033.60
SUBTOTAL 3, EAST BOUN	ND SHOULDER	4814.20
SUBTOTAL 4, WEST BOUN	ND SHOULDER	4814.20
SUBTOTAL 5, SIDEROADS	3	2577.80
	TOTAL	66188.34
	PAY TOTAL	66188

		WEST BOU	ND ROAD	WAY (COLD	MILLING 3" C	OR LESS)
WEST	TO	WEST	AVERAGE	NET	WEST BOUND	REMARKS
BOUND		BOUND	WIDTH	LENGTH	COLDMILLING	
LOG MILE		LOG MILE	FEET	FEET	SQ. YDS.	
0.000		0.014	37.00	73.92	303.89	WEST BOUND LANE
0.014		0.019	12.00	26.40	35.20	WEST BOUND LANE
0.019		0.936	11.00	4841.76	5917.71	WEST BOUND LANE
0.974		3.545	11.00	13574.88	16591.52	WEST BOUND LANE
3.545		3.562	45.00	89.76	448.80	WEST BOUND LANE
3.562		4.141	11.00	3057.12	3736.48	WEST BOUND LANE
				SUBTOTAL 2	27033.60	

	WEST BOUND SHOULDER (COLDMILLING 3" OR LESS)										
WEST BOUND LOG MILE	TO	WEST BOUND LOG MILE	AVERAGE WIDTH FEET	NET LENGTH FEET	WEST BOUND COLDMILLING SQ. YDS.	REMARKS					
0.000		0.014	2.00	73.92	16.43	WEST BOUND SHOULDER					
0.014		0.019	2.00	26.40	5.87	WEST BOUND SHOULDER					
0.019		0.936	2.00	4841.76	1075.95	WEST BOUND SHOULDER					
0.974		3.545	2.00	13574.88	3016.64	WEST BOUND SHOULDER					
3.545		3.562	2.00	89.76	19.95	WEST BOUND SHOULDER					
3.562		4.141	2.00	3057.12	679.36	WEST BOUND SHOULDER					
				SUBTOTAL 4	4814.20						

	EAST BOUND 2" PERMANENT AGGREGATE EDGE TREATMENT										
LOG MI	LE LOG MILE	NET	NET	AVERAGE		QUANTITY	REMARKS				
		LENGTH	LENGTH	WIDTH	SQUARE						
		MILES	FEET	FEET	YARDS	TONS					
0.00	0 4.141	4.141	21864.48				EAST BOUND SHOULDER				
			-198.00				MINUS BRIDGE NO784				
	-1877.00 MINUS AGGREGATE, CONCRETE, ASPHALT ROADS AND ENTRANCE					MINUS AGGREGATE, CONCRETE, ASPHALT ROADS AND ENTRANCES					
	TOTAL LENGTH FEET			2	4397.66	483.74	SUBTOTAL 1				

#### NOTES:

EDGE DROP OFF TREATMENT 0.055 TONS PER SQ. YARD COMPACTED, PER INCH.

			WES	T BOUND	2" PERMANE	NT AGGREGA	TE EDGE TR	EATMENT
LOG MILE	LOG MILE	NET LENGTH MILES	NET LENGTH FEET	AVERAGE WIDTH FEET	SQUARE YARDS	QUANTITY TONS		REMARKS
0.000	4.141	4.141	21864.48	, , , , ,	1711120	10110	WEST BOUND	SHOULDER
			-198.00				MINUS BRID	OGE NO784
			-1662.00				MINUS AGGF	REGATE, CONCRETE, ASPHALT ROADS AND ENTRANCES
Т	OTAL LENGTH	I FEET	20004.48	2	4445.44	489.00	SUBTOTAL 2	
						483.74	SUBTOTAL 1	
						972.74	TOTAL	
						972.7	PAY TOTAL	

#### NOTES:

EDGE DROP OFF TREATMENT 0.055 TONS PER SQ. YARD COMPACTED, PER INCH.

THANKAM MATHEW NUMBER PE-2014000056 04/08-201-00 AM THANKAM MATHEW - CIVIL MC-PE-2014000056 DATE PREPARED 4/2/2024 ROUTE STATE MO SHEET NO. DISTRICT KC CASS JOB NO.
JKU0067
CONTRACT ID. PROJECT NO. BRIDGE NO.

QUANTITY SHEET SHEET 2 OF 7

			CLASS C	PARTIAL	DEPTH PAVE	MENT REPAIR QUANTIT	IES		
LOG MILE	LANE/DIRECTION	LENGTH OF REPAIR	AVERAGE WIDTH OF WIDTH	DEPTH OF REPAIR	AREA SQ. YARDS	FURNISHING & PLACING BITUMINOUS PARTIAL PAVEMENT REPAIR	REMOVAL FOR CLASS C PAVEMENT REPAIR	TACK	REMARKS
		(FEET)	(FEET)	(INCHES)	(SQ. YARDS)	TONS	SQ. YDS.	GAL	
0.050	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
0.060	EAST & WEST BOUND LANE	10 FEET	26 FEET	4 INCHES	28.89 SQ.YDS.	6.41 TON	28.89 SQ.YDS.	2.89 GAL	
0.070	EAST & WEST BOUND LANE EAST & WEST BOUND LANE	2 FEET 2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS. 6.67 SQ.YDS.	1.28 TONS	5.78 SQ.YDS. 6.67 SQ.YDS.	0.58 GAL	
0.090	EAST & WEST BOUND LANE	2 FEET	30 FEET 30 FEET	4 INCHES 4 INCHES	6.67 SQ.YDS.	1.48 TONS 1.48 TONS	6.67 SQ.YDS.	0.67 GAL 0.67 GAL	
0.112	EAST & WEST BOUND LANE	2 FEET	30 FEET	4 INCHES	6.67 SQ.YDS.	1.48 TONS	6.67 SQ.YDS.	0.67 GAL	
0.114	EAST & WEST BOUND LANE	2 FEET	30 FEET	4 INCHES	6.67 SQ.YDS.	1.48 TONS	6.67 SQ.YDS.	0.67 GAL	
0.132	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
0.133	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
0.141	EAST & WEST BOUND LANE EAST & WEST BOUND LANE	2 FEET 2 FEET	26 FEET 26 FEET	4 INCHES 4 INCHES	5.78 SQ.YDS. 5.78 SQ.YDS.	1.28 TONS 1.28 TONS	5.78 SQ.YDS. 5.78 SQ.YDS.	0.58 GAL 0.58 GAL	
0.149	EAST & WEST BOUND LANE	30 FEET	2 FEET	4 INCHES	6.67 SQ.YDS.	1.48 TONS	6.67 SQ.YDS.	0.67 GAL	CENTERL INE
0.180	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
0.182	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
0.190	EAST & WEST BOUND LANE	40 FEET	2 FEET	4 INCHES	8.89 SQ.YDS.	1.97 TONS	8.89 SQ.YDS.	0.89 GAL	CENTERL INE
0.200	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
0.201	EAST & WEST BOUND LANE EAST & WEST BOUND LANE	2 FEET 2 FEET	26 FEET 26 FEET	4 INCHES 4 INCHES	5.78 SQ.YDS. 5.78 SQ.YDS.	1.28 TONS 1.28 TONS	5.78 SQ.YDS. 5.78 SQ.YDS.	0.58 GAL 0.58 GAL	
0.240	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
0.264	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
0.278	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
0.300	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
0.304	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS 3 21 TONS	5.78 SQ.YDS.	0.58 GAL	
0.316	EAST & WEST BOUND LANE EAST & WEST BOUND LANE	5 FEET 2 FEET	26 FEET 26 FEET	4 INCHES 4 INCHES	14.44 SQ.YDS. 5.78 SQ.YDS.	3.21 TONS 1.28 TONS	14.44 SQ.YDS. 5.78 SQ.YDS.	1.44 GAL 0.58 GAL	
0.331	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
0.333	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
0.368	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
0.369	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
0.381	EAST & WEST BOUND LANE WEST BOUND LANE	2 FEET 2 FEET	26 FEET	4 INCHES 4 INCHES	5.78 SQ.YDS. 2.89 SQ.YDS.	1.28 TONS	5.78 SQ.YDS. 2.89 SQ.YDS.	0.58 GAL 0.29 GAL	WEST BOUND LANE ONLY
0.393	EAST & WEST BOUND LANE	2 FEET	13 FEET 26 FEET	4 INCHES	5.78 SQ.YDS.	0.64 TONS 1.28 TONS	5.78 SQ.YDS.	0.29 GAL 0.58 GAL	WEST BOUND LANE UNLT
0.439	EAST & WEST BOUND LANE	4 FEET	26 FEET	4 INCHES	11.56 SQ.YDS.	2.57 TONS	11.56 SQ.YDS.	1.16 GAL	
0.440	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
0.450	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
0.454	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
0.455 0.482	EAST & WEST BOUND LANE EAST & WEST BOUND LANE	2 FEET 2 FEET	26 FEET 26 FEET	4 INCHES 4 INCHES	5.78 SQ.YDS. 5.78 SQ.YDS.	1.28 TONS 1.28 TONS	5.78 SQ.YDS. 5.78 SQ.YDS.	0.58 GAL 0.58 GAL	
0.482	EAST BOUND LANE	2 FEET	13 FEET	4 INCHES	2.89 SQ.YDS.	0.64 TONS	2.89 SQ.YDS.	0.38 GAL 0.29 GAL	EAST BOUND LANE ONLY
0.516	EAST & WEST BOUND LANE	4 FEET	26 FEET	4 INCHES	11.56 SQ.YDS.	2.57 TONS	11.56 SQ.YDS.	1.16 GAL	
0.517	EAST & WEST BOUND LANE	4 FEET	26 FEET	4 INCHES	11.56 SQ.YDS.	2.57 TONS	11.56 SQ.YDS.	1.16 GAL	
0.518	WEST BOUND LANE	2 FEET	13 FEET	4 INCHES	2.89 SQ.YDS.	0.64 TONS	2.89 SQ.YDS.	0.29 GAL	WEST BOUND LANE ONLY
0.584	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
0.595	EAST & WEST BOUND LANE EAST & WEST BOUND LANE	2 FEET 2 FEET	26 FEET 26 FEET	4 INCHES 4 INCHES	5.78 SQ.YDS. 5.78 SQ.YDS.	1.28 TONS 1.28 TONS	5.78 SQ.YDS. 5.78 SQ.YDS.	0.58 GAL 0.58 GAL	
0.607	WEST BOUND LANE	2 FEET	13 FEET	4 INCHES	2.89 SQ.YDS.	0.64 TONS	2.89 SQ.YDS.	0.29 GAL	WEST BOUND LANE ONLY
0.650	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
0.659	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
0.690	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
0.700	EAST & WEST BOUND LANE EAST & WEST BOUND LANE	2 FEET 2 FEET	26 FEET 26 FEET	4 INCHES 4 INCHES	5.78 SQ.YDS. 5.78 SQ.YDS.	1.28 TONS 1.28 TONS	5.78 SQ.YDS. 5.78 SQ.YDS.	0.58 GAL 0.58 GAL	
0.780	EAST BOUND LANE	2 FEET	13 FEET	4 INCHES	2.89 SQ.YDS.	0.64 TONS	2.89 SQ.YDS.	0.58 GAL 0.29 GAL	EAST BOUND LANE ONLY
0.843	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
0.849	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
0.925	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
0.957	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS. 5.78 SQ.YDS.	0.58 GAL	
0.968 0.987	EAST & WEST BOUND LANE EAST & WEST BOUND LANE	2 FEET 2 FEET	26 FEET 26 FEET	4 INCHES 4 INCHES	5.78 SQ.YDS. 5.78 SQ.YDS.	1.28 TONS 1.28 TONS	5.78 SQ.YDS. 5.78 SQ.YDS.	0.58 GAL 0.58 GAL	
1.039	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
1.044	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
1.167	EAST BOUND LANE	2 FEET	13 FEET	4 INCHES	2.89 SQ.YDS.	0.64 TONS	2.89 SQ.YDS.	0.29 GAL	EAST BOUND LANE ONLY
1.170	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
1.171	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
1.263	EAST & WEST BOUND LANE EAST & WEST BOUND LANE	2 FEET 2 FEET	26 FEET 26 FEET	4 INCHES 4 INCHES	5.78 SQ.YDS. 5.78 SQ.YDS.	1.28 TONS 1.28 TONS	5.78 SQ.YDS. 5.78 SQ.YDS.	0.58 GAL 0.58 GAL	
1.431	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
1.485	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
1.670	WEST BOUND LANE	3 FEET	3 FEET	6 INCHES	1.00 SQ.YDS.	0.33 TONS	1.00 SQ.YDS.	0.10 GAL	WEST BOUND LANE ONLY
2.176	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
2.374	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
		1	ı	I	SUB TOTAL 1	97.57 TONS	439.00 SQ.YDS.	43.90 GAL	

	Y OIST K	PRIC	NU E-20	MALLINIA SS NO OCT	R 0056	M ATE IO T NO.	The state of the s	A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED
DESCRIPTION								IF A SFAL IS PRESENT ON TH
MISSOURI HIGHWAYS AND TRANSPORTATION   DATE	COMMISSION		MoDOT		105 WEST CAPITOL	JEFFERSON CITY, MO 65102	1-888-ASK-MODOT (1-888-275-6636)	

QUANTITY SHEET SHEET 3 OF 7

	1		CLASS C		1				
LOG MILE	LANE/DIRECTION	LENGTH OF	AVERAGE WIDTH	DEPTH OF		FURNISHING & PLACING	REMOVAL FOR	TACK	REMARKS
		REPAIR	OF WIDTH	REPAIR	SQ. YARDS	BITUMINOUS MATERIAL FOR	CLASS C		
						PARTIAL DEPTH PAVEMENT REPAIR	PAVEMENT REPAIR		
		(FEET)	(FEET)	(INCHES)	(SQ. YARDS)	TONS	SQ. YDS.	GAL	
2.390	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
2.579	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
2.590	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
2.595	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
2.599	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
2.650	EAST BOUND LANE	3 FEET	3 FEET	6 INCHES	1.00 SQ.YDS.	0.33 TONS	1.00 SQ.YDS.	0.10 GAL	EAST BOUND LANE ONLY
2.680	EAST & WEST BOUND LANE	2 FEET	26 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	
3.025	EAST BOUND LANE	4 FEET	13 FEET	4 INCHES	5.78 SQ.YDS.	1.28 TONS	5.78 SQ.YDS.	0.58 GAL	EAST BOUND LANE ONLY
3.500	EAST BOUND LANE	8 FEET	6 FEET	4 INCHES	5.33 SQ.YDS.	1.18 TONS	5.33 SQ.YDS.	0.53 GAL	EAST BOUND LANE ONLY
4.000	WEST BOUND LANE	2 FEET	13 FEET	4 INCHES	2.89 SQ.YDS.	0.64 TONS	2.89 SQ.YDS.	0.29 GAL	WEST BOUND LANE ONLY
				S	SUBTOTAL 2	11.14 TONS	49.67 SQ.YDS.	4.98 GAL	
					SUBTOTAL 1	97.57 TONS	439.00 SQ.YDS.	43.90 GAL	
				1 7	OT AL	1 100 74 TONE	400 C7 CO VDC	40 00 CAI	1

SUBTOTAL 2	11.14 TONS	49.67 SQ.YDS.	4.98 GAL
SUBTOTAL 1	97.57 TONS	439.00 SQ.YDS.	43.90 GAL
TOTAL	108.71 TONS	488.67 SQ.YDS.	48.88 GAL
ADDITIONAL 10%	10.87 TONS	48.87 SQ.YDS.	4.89 GAL
TOTAL	119.58 TONS	537.54 SQ.YDS.	<b>★</b> 53.77 GAL
PAY TOTAL	119.6 TONS	537.5 SQ.YDS.	

		2 INCHES OF TYP			-		
OG MILE	LOCATION	TYPE OF ENTRANCE	AVERAGE WIDTH OF ENTRANCE FEET	LENGTH OF ENTRANCE FEET	SQUARE YARDS	TYPE 5 AGGREGATE TONS	REMARKS
0.113	WEST BOUND LANE	DRIVEWAY ENTRANCE	43	22	105.11	11.56	
0.232	WEST BOUND LANE	FIELD ENTRANCE	44	22	107.55	11.83	
0.453	WEST BOUND LANE	DRIVEWAY ENTRANCE	36	22	88.00	9.68	
0.492	EAST BOUND LANE	COUNTY ROAD	33	22	80.67	8.87	RIVER RIDGE ROAD
0.511	WEST BOUND LANE	DRIVEWAY ENTRANCE	19	22	46.44	5.11	
0.560	WEST BOUND LANE	COUNTY ROAD	34	22	83.11	9.14	MAJOR ROAD
0.591	EAST BOUND LANE	DRIVEWAY ENTRANCE	21	22	51.33	5.65	
0.650	WEST BOUND LANE	DRIVEWAY ENTRANCE	27	22	66.00	7.26	
0.711	WEST BOUND LANE	COUNTY ROAD	35	22	85.56	9.41	MARTHA ROAD
0.805	EAST BOUND LANE	DRIVEWAY ENTRANCE	28	22	68.44	7.53	
0.810	WEST BOUND LANE	FIELD ENTRANCE	37	22	90.44	9.95	
0.812	EAST BOUND LANE	FIELD ENTRANCE	36	22	88.00	9.68	
0.998	EAST BOUND LANE	DRIVEWAY ENTRANCE	65	22	158.89	17.48	
1.104	WEST BOUND LANE	COMMERCIAL ENTRANCE	71	22	173.56	19.09	
1.109	EAST BOUND LANE	DRIVEWAY ENTRANCE	19	22	46.44	5.11	
1.221	EAST BOUND LANE	DRIVEWAY ENTRANCE	20	22	48.89	5.38	
1.270	EAST BOUND LANE	DRIVEWAY ENTRANCE	18	22	44.00	4.84	
1.334	EAST BOUND LANE	DRIVEWAY ENTRANCE	32	22	78.22	8.60	
1.412	EAST BOUND LANE	DRIVEWAY ENTRANCE	25	22	61.11	6.72	
1.493	EAST BOUND LANE	DRIVEWAY ENTRANCE	25	22	61.11	6.72	
1.510	EAST BOUND LANE	DRIVEWAY ENTRANCE	23	22	56.22	6.18	
1.534	EAST BOUND LANE	DRIVEWAY ENTRANCE	15	22	36.67	4.03	
1.846	WEST BOUND LANE	DRIVEWAY ENTRANCE	19	22	46.44	5.11	
1.998	WEST BOUND LANE	COUNTY ROAD	62	22	151.56	16.67	KNIGHT ROAD
2.006	EAST BOUND LANE	DRIVEWAY ENTRANCE	16	22	39.11	4.30	
2.099	EAST BOUND LANE	DRIVEWAY ENTRANCE	18	22	44.00	4.84	
2.121	EAST BOUND LANE	DRIVEWAY ENTRANCE	17	22	41.56	4.57	
2.121	WEST BOUND LANE	DRIVEWAY ENTRANCE	17	22	41.56	4.57	
2.160	EAST BOUND LANE	DRIVEWAY ENTRANCE	20	22	48.89	5.38	
2.212	WEST BOUND LANE	DRIVEWAY ENTRANCE	16	22	39.11	4.30	
2.230	EAST BOUND LANE	DRIVEWAY ENTRANCE	13	22	31.78	3.50	
2.231	WEST BOUND LANE	DRIVEWAY ENTRANCE	15	22	36.67	4.03	
2.250	EAST BOUND LANE	COMMERCIAL ENTRANCE	20	22	48.89	5.38	
2.256	WEST BOUND LANE	DRIVEWAY ENTRANCE	19	22	46.44	5.11	
2.402	EAST BOUND LANE	DRIVEWAY ENTRANCE	25	22	61.11	6.72	
2.489	WEST BOUND LANE	FIELD ENTRANCE	20	22	48.89	5.38	
2.513	EAST BOUND LANE	DRIVEWAY ENTRANCE	18	22	44.00	4.84	
2.572	EAST BOUND LANE	DRIVEWAY ENTRANCE	16	22	39.11	4.30	
2,620	EAST BOUND LANE	DRIVEWAY ENTRANCE	20	22	48.89	5.38	
2.660	EAST BOUND LANE	DRIVEWAY ENTRANCE	14	22	34.22	3.76	
2.687	EAST BOUND LANE	DRIVEWAY ENTRANCE	18	22	44.00	4.84	
2.706	EAST BOUND LANE	DRIVEWAY ENTRANCE	20	22	48.89	5.38	
2.748	EAST BOUND LANE	DRIVEWAY ENTRANCE	22	22	53.78	5.92	
2.766	EAST BOUND LANE	DRIVEWAY ENTRANCE	23	22	56.22	6.18	
2.801	EAST BOUND LANE	COMMERCIAL ENTRANCE	34	22	83.11	9.14	
3.183	EAST BOUND LANE	DRIVEWAY ENTRANCE	35	22	85.56	9.41	
3.537	EAST BOUND LANE	DRIVEWAY ENTRANCE	22	22	53.78	5.92	
3.610	WEST BOUND LANE	COMMERCIAL ENTRANCE	56	22	136.89	15.06	
3.990	WEST BOUND LANE	DRIVEWAY ENTRANCE	26	22	63.56	6.99 356.8	

\* PAYMENT FOR TACK IS INCIDENTAL TO THE PAY ITEM FOR FURNISHING AND PLACING BITUMINOUS MATERIAL FOR PARTIAL DEPTH PAVEMENT REPAIR.

		JK	JOB (U(	NO 00	67			
	PROJECT NO.							
BRIDGE NO.								
DESCRIPTION								
DATE								
IISSOURI HIGHWAYS AND TRANSPORTATION   DATE	COMMISSION				105 WEST CAPITOL	JEFFERSON CITY, MD 65102	1-888-ASK-MODOT (1-888-275-6636)	

THANKAM MATHEW NUMBER PE-2014000056

04/08-20-20-40 AM
THANKAM MATHEW - CIVIL
MO-PE-2014000056
DATE PREPARED
4/2/2024

ROUTE STATE
YY MO
DISTRICT SHEET NO.
KC 3

COUNTY
CASS

#### NOTE:

TYPE 5 AGGREGATE FOR ENTRANCE EQUALS 0.055 TONS PER SQ. YDS. PER INCH COMPACTED.

QUANTITY SHEET SHEET 4 OF 7

	ΕA	ST BOUND BITU	MINOUS RUME	BLE STRIPS (SHOULDERS)
LOG MILE BEGIN	LOG MILE END	LOCATION	BITUMINOUS RUMBLE STRIPS STATION	REMARKS
0.000	1.991	EAST BOUND SHOULDER	105.125	FROM ROUTE Y (0.000) TO LOG MILE (1.991)
•		TOTAL	105.125	
		MINUS BRIDGES EBL	-1.980	INCLUDES BRIDGES NO784
		MINUS ENTRANCES EBL	-4.050	INCLUDES COUNTY ROADS, DRIVEWAYS, FIELD ENTRANCES
		EAST BOUND TOTAL	99.095	

FOR ENTRANCES LOCATIONS SEE QUANTITY SHEETS FOR AGGREGATE FOR ENTRANCE AND QUANTITY SHEETS FOR ASPHALT ENTRANCES.

		WE	ST BOUND BITU	MINOUS RUME	BLE STRIPS (SHOULDERS)
LOG MILE BEGIN	LOG MILE LOCATION END		BITUMINOUS RUMBLE STRIPS STATION	REMARKS	
0.000	1.991 WEST BOUND SHOULDER		105.125	FROM ROUTE Y (0.000) TO LOG MILE (1.991)	
		TOTAL		105.125	
		MINUS	BRIDGES WBL	-1.980	INCLUDES BRIDGES NO784
		MINUS	ENTRANCES WBL	-3.650	INCLUDES COUNTY ROADS, DRIVEWAYS, FIELD ENTRANCES
		WEST B	OUND TOTAL	99.495	
		EAST B	OUND TOTAL	99.095	
		WEST &	EAST BOUND TOTAL	198.590	
		WEST &	EAST BOUND PAY TOTAL	198.6	

#### NOTE

FOR ENTRANCES LOCATIONS SEE QUANTITY SHEETS FOR AGGREGATE FOR ENTRANCE AND QUANTITY SHEETS FOR ASPHALT ENTRANCES.

		GU	ARDRAIL QUANT	ITIES		
LOG MILE			MASH CRASHWORTHY END TERMINAL EACH	MGS HEIGHT AND BLOCK TRANSITION EACH	SHAPING SLOPES CLASS 3 100 FT.	REMARKS
0.660	ON THE WEST BOUND SIDE	OF THE ROADWAY	1.00	1.00	0.75	
1.042	ON THE EAST BOUND SIDE	OF THE ROADWAY	1.00	1.00	0.75	
		TOTAL	2.00	2.00	1.50	
		PAY TOTAL	2.00	2.00	2.00	

		REMOVAL OF IMPROVEMENT ROADWAY		
LOG MILE	LOCATION	DESCRIPTION	QUANTITY	UNITS
0.660	ON THE WEST BOUND SIDE OF THE ROADWAY	REMOVE EXISTING END TERMINAL, PLUS 25' OF GUARDRAIL FOR MSG HEIGHT AND BLOCK TRANSITION SECTION	75' +/-	LIN. FT.
1.042	ON THE EAST BOUND SIDE OF THE ROADWAY	REMOVE EXISTING END TERMINAL, PLUS 25' OF GUARDRAIL FOR MSG HEIGHT AND BLOCK TRANSITION SECTION	75′ +/-	LIN. FT.

DOURT THE PROPERTY OF WISSON TO THE PROPERTY OF WISSON THE PROPERTY
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QUANTITY SHEET SHEET 5 OF 7

		1	PERMANENT	T	1	
LOG MILE	ТО	LOG MILE	LOCATION	4" SOLID WHITE PAINT WATERBORNE TYPE P BEADS FEET	4" SOLID YELLOW PAINT WATERBORNE TYPE P BEADS FEET	REMARKS
0.000		4.141	WEST BOUND LANE, EDGE LINES	21865		SOLID WHITE, EDGE LINE
0.000		4.141	EAST BOUND LANE, EDGE LINES	21865		SOLID WHITE, EDGE LINE
0.009		0.228	EAST BOUND, CENTER LINE, NO PASSING		1157	SOLID YELLOW
0.009		0.046	WEST BOUND, CENTER LINE, NO PASSING		196	SOLID YELLOW
0.051		0.222	WEST BOUND, CENTER LINE, INTERMITTENT		226	YELLOW INTERMITTENT
0.228		0.390	WEST BOUND, CENTER LINE, NO PASSING		856	SOLID YELLOW
0.233		0.326	EAST BOUND, CENTER LINE, INTERMITTENT		123	YELLOW INTERMITTENT
0.333		1.508	EAST BOUND, CENTER LINE, NO PASSING		6204	SOLID YELLOW
0.395		0.477	WEST BOUND, CENTER LINE, INTERMITTENT		109	YELLOW INTERMITTENT
0.482		0.701	WEST BOUND, CENTER LINE, NO PASSING		1157	SOLID YELLOW
0.706		0.786	WEST BOUND, CENTER LINE, INTERMITTENT		106	YELLOW INTERMITTENT
0.791		1.696	WEST BOUND, CENTER LINE, NO PASSING		4779	SOLID YELLOW
1.514		1.696	EAST BOUND, CENTER LINE, INTERMITTENT		241	YELLOW INTERMITTENT
1.702		2.160	EAST BOUND, CENTER LINE, NO PASSING		2419	SOLID YELLOW
1.702		1.857	WEST BOUND, CENTER LINE, INTERMITTENT		205	YELLOW INTERMITTENT
1.862		2.344	WEST BOUND, CENTER LINE, NO PASSING		2545	SOLID YELLOW
2.165		2.343	EAST BOUND, CENTER LINE, INTERMITTENT		235	YELLOW INTERMITTENT
2.349		2.616	WEST BOUND, CENTER LINE, INTERMITTENT		353	YELLOW INTERMITTENT SOLID YELLOW
2.454		2.623	EAST BOUND, CENTER LINE, NO PASSING		893 951	SOLID YELLOW
2.621		2.801	WEST BOUND, CENTER LINE, NO PASSING			YELLOW INTERMITTENT
		3.043	EAST BOUND, CENTER LINE, INTERMITTENT WEST BOUND, CENTER LINE, INTERMITTENT		229	
2.806		3,203	EAST BOUND, CENTER LINE, NO PASSING		313	YELLOW INTERMITTENT SOLID YELLOW
3.048		3.396	WEST BOUND, CENTER LINE, NO PASSING		1695	SOLID YELLOW
3.208		3.396	EAST BOUND, CENTER LINE, NO FASSING		1838 249	YELLOW INTERMITTENT
3,402		3,517	CENTER LINE, INTERMITTENT		608	YELLOW INTERMITTENT
3,522		3.559	EAST BOUND, CENTER LINE, NO PASSING		196	SOLID YELLOW
3.522		3.559	WEST BOUND, CENTER LINE, NO PASSING		196	SOLID YELLOW
3.560		3.593			175	SOLID YELLOW
3.565		3.601	EAST BOUND, CENTER LINE, NO PASSING WEST BOUND, CENTER LINE, INTERMITTENT		48	YELLOW INTERMITTENT
3.598		3.683	EAST BOUND, CENTER LINE, INTERMITTENT		113	YELLOW INTERMITTENT
3.607		3.684	WEST BOUND, CENTER LINE, NO PASSING		407	SOLID YELLOW
3.689		4.141	CENTER LINE, INTERMITTENT		597	YELLOW INTERMITTENT
			TOTAL	43730	29419	

THE CONTRACTOR SHALL LOG THE EXISTING PAVEMENT MARKINGS IN THE FIELD PRIOR TO ANY CONSTRUCTION OPERATIONS.

	PERMANENT STRIPING										
LOG MILE	LOCATION		24" TYPE 2 WHITE PREFORMED THERMOPLASTIC FEET	REMARKS							
0.009	WEST BOUND LANE		12	STOP BAR							
3.559	EAST BOUND LANE		12	STOP BAR							
		_									
		TOTAL	24								

ROUTE YY MO DISTRICT SHEET N KC 3  COUNTY CASS JOB NO. JKUO067 CONTRACT ID.  PROJECT NO.  BRIDGE NO.								
ISSOURI HIGHWAYS AND TRANSPORTATION DATE	COMMISSION		MODOT		105 WEST CAPITOL	$\overline{}$	1-888-ASK-MODOT (1-888-275-6636)	

QUANTITY SHEET SHEET 6 OF 7

										EFFECTIVE: 04-01-202
T T	TOTAL QTY TOTAL SIGN	N			QTY	TOTAL SIGN				
SIZE AREA QTY .	AREA RELOC RELOC NUM.			SIZE AREA QT	Y TOTAL RELO	RELOC NUM.				
SIGN IN SQ.FT EACH S	SQ.FT. EACH SQ.FT.	DESCRIPTION	SIGN	IN. SQ.FT. EAG	CH SQ.FT. EACH	SQ.FT.	DESCRIPTION	ITEM	TOTAL	.
	WARNING SIGNS	-			GUIDE S	GNS		NUMBER	QTY	DESCRIPTION
NO1-1L 48X48 16.00		TURN (SYMBOL LEFT ARROW)	E05-1	36X48 12.00			GORE EXIT	6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
WO1-1R 48X48 16.00		TURN (SYMBOL RIGHT ARROW)	E05-2	48X36 12.00			EXIT OPEN	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
NO1-2L 48X48 16.00		CURVE (SYMBOL LEFT ARROW)	E05-2a	48X36 12.00			EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
NO1-2R 48X48 16.00 NO1-3L 48X48 16.00		CURVE (SYMBOL RIGHT ARROW)	G020-1 G020-2	60X24 10.00 2			ROAD WORK NEXT 4 MILES END ROAD WORK	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
NO1-3L 48X48 16.00 NO1-3R 48X48 16.00		REVERSE TURN (SYMBOL LEFT ARROW) REVERSE TURN (SYMBOL RIGHT ARROW)	G020-2	48X24 8.00 2 36X18 4.50 1	16		PILOT CAR FOLLOW ME	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)  IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
WO1-4L 48X48 16.00		REVERSE CURVE (SYMBOL LEFT ARROW)		42X30 8.75 4		+	PILOT CAR IN USE WAIT & FOLLOW	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
WO1-4R 48X48 16.00		REVERSE CURVE (SYMBOL RIGHT ARROW)	1	18X12 1.50 2			PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL
NO1-4bL 48X48 16.00		DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)	1	36X24 6.00 2			WORK ZONE (PLAQUE)	6122030		IMPACT ATTENUATOR (RELOCATION)
WO1-4bR 48X48 16.00		DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)	MD4-8a	24X18 3.00			END DETOUR	6123000A		TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA
WO1-4cL 48X48 16.00		TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)	MO4-9L	48X36 12.00			DETOUR (LEFT ARROW)	6161008	2	ADVANCED WARNING RAIL SYSTEM
WO1-4cR 48X48 16.00		TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)	MO4-9R	48X36 12.00			DETOUR (RIGHT ARROW)	6161012		BUOYS (BOATS KEEP OUT)
WO1-6 60X30 12.50		HORIZONTAL ARROW (SYMBOL)	MO4-9P	48X12 4.00			STREET NAME (PLAQUE)	6161013		BUOYS (NO WAKE)
NO1-6a 72X36 18.00 NO1-7 60X30 12.50		HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)  DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)		48X18 6.00 48X18 6.00			DETOUR (ARROW LEFT) DETOUR (ARROW RIGHT)	6161014 6161025	335	SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT) CHANNELIZER (TRIM LINE)
VO1-7a 72X36 18.00		DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	I INIO T TOIL	40110  0:00	REGULATORY		DETOOK VARROW RIGHT?	6161030	333	TYPE III MOVEABLE BARRICADE
VO1-8 18X24 3.00		CHEVRON (SYMBOL)	R1-1	48X48 13.25	TREGGEATORY		STOP	6161033		DIRECTION INDICATOR BARRICADE
V01-8a 30X36 7.50		CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TRI. 6.93			YIELD	6161040		FLASHING ARROW PANEL
WO3-1 48X48 16.00		STOP AHEAD (SYMBOL)	R1-2a	36X36 9.00			TO ONCOMING TRAFFIC (PLAQUE)	6161047		TYPE III OBJECT MARKER
WO3-2 48X48 16.00		YIELD AHEAD (SYMBOL)	R1-3P	30X12 2.50			ALL WAY (PLAQUE)	6161055		SEQUENTIAL FLASHING WARNING LIGHT
WO3-3 48X48 16.00	704	SIGNAL AHEAD (SYMBOL)	R2-1	36X48 12.00 6	72		SPEED LIMIT 4-35, 2-45	6161070	-	TUBULAR MARKER
	384	BE PREPARED TO STOP	R3-1 R3-2	48X48 16.00			NO RIGHT TURN (SYMBOL) NO LEFT TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM CHANGEABLE MESSAGE SIGN,
NO3-5 48X48 16.00 4 NO4-1L 48X48 16.00	64	SPEED LIMIT AHEAD MERGE (SYMBOL FROM LEFT)	R3-2	48X48 16.00 36X36 9.00		+	NO TURNS	6161096		COMMISSION FURNISHED/RETAINED
WO4-1E 48X48 16.00		MERGE (SYMBOL FROM RIGHT)	R3-4	48X48 16.00		+	NO U-TURN (SYMBOL)	0101030		CHANGEABLE MESSAGE SIGN W/O COMM.
WO4-1aL 48X48 16.00		MERGE (ARROW SYMBOL)	R3-7L	30X30 6.25			LEFT LANE MUST TURN LEFT	6161098A		INTERFACE, CONTRACTOR FURNISHED/RETAINED
VO4-1aR 48X48 16.00		MERGE (ARROW SYMBOL)	R3-7R	30X30 6.25			RIGHT LANE MUST TURN RIGHT			CHANGEABLE MESSAGE SIGN WITH COMM.
VO5-1 48X48 16.00		ROAD/BRIDGE/RAMP NARROWS	R4-1	36X48 12.00			DO NOT PASS	6161099	4	INTERFACE, CONTRACTOR FURNISHED/RETAINED
05-3 48X48 16.00		ONE LANE BRIDGE	R4-2	36X48 12.00			PASS WITH CARE	6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
05-5 48X48 16.00 2	32	NARROW LANES	R4-8a	36X48 12.00			KEEP LEFT (HORIZONTAL ARROW)	6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
V06-1 48X48 16.00		DIVIDED HIGHWAY (SYMBOL)	R4-7a	36X48 12.00			KEEP RIGHT (HORIZONTAL ARROW)	64776000		TEMPORARY TRAFFIC BARRIER
V06-2 48X48 16.00 V06-3 48X48 16.00		DIVIDED HIGHWAY END (SYMBOL)	R5-1 R5-1a	30X30 6.25 36X24 6.00			DO NOT ENTER WRONG WAY	6173600D	)	CONTRACTOR FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER
/07-3a 30X24 5.00 2	10	TWO WAY TRAFFIC (SYMBOL)  NEXT XX MILES (PLAQUE)	R6-1L	54X18 6.75		+	ONE WAY ARROW (LEFT)	6173602B		CONTRACTOR FURNISHED/COMMISSION RETAINED
08-1 48X48 16.00	10	BUMP	R6-1R	54X18 6.75			ONE WAY ARROW (RIGHT)	6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
V08-2 48X48 16.00		DIP	R6-2L	24X30 5.00			ONE WAY (LEFT)	6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
WO8-3 48X48 16.00		PAVEMENT ENDS	R6-2R	24X30 5.00			ONE WAY (RIGHT)			TEMPORARY TRAFFIC BARRIER
WO8-4 48X48 16.00		SOFT SHOULDER	R9-9	24X12 2.00			SIDEWALK CLOSED	6176000B	3	COMMISSION FURNISHED/RETAINED
WO8-5 48X48 16.00		SLIPPERY WHEN WET (SYMBOL)					SIDEWALK CLOSED AHEAD,			TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
WO8-6 48X48 16.00		TRUCK CROSSING (WITH FLAGS)	R9-11L	24X18 3.00			(ARROW LEFT) CROSS HERE	6177000B	3	COMMISSION FURNISHED/RETAINED
W08-6c 48X48 16.00		TRUCK ENTRANCE	    <sub>DO 44B</sub>	24740 7 00			SIDEWALK CLOSED AHEAD,	6208064A	\	TEMPORARY RAISED PAVEMENT MARKER
WO8-7 36X36 9.00 WO8-7a 36X36 9.00		LOOSE GRAVEL FRESH OIL/LOOSE GRAVEL	R9-11R R10-6	24X18 3.00 24X36 6.00			(ARROW RIGHT) CROSS HERE STOP HERE ON RED (45° ARROW)	9029400		TEMPORARY TRAFFIC SIGNALS TEMPORARY TRAFFIC SIGNALS AND LIGHTING
VO8-9 48X48 16.00		LOW SHOULDER		48X30 10.00			ROAD CLOSED	3023401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING
WO8-11 48X48 16.00		UNEVEN LANES	1	10/30 10/00			ROAD CLOSED XX MILES AHEAD			
WO8-12 48X48 16.00		NO CENTER LINE	R11-3a	60X30 12.50			LOCAL TRAFFIC ONLY			
VO8-15 48X48 16.00		GROOVED PAVEMENT	R11-4	60X30 12.50			ROAD CLOSED TO THRU TRAFFIC			
VO8-15P 30X24 5.00		MOTORCYCLE (PLAQUE)	4 <b></b>	60X48 20.00			FINE SIGN			
V08-17 48X48 16.00		SHOULDER DROP-OFF (SYMBOL)	CONST-3>	(56X12 4.67	NICOEL LINE		SPEEDING/PASSING (PLATE)			
/08-17P 30X24 5.00		SHOULDER DROP-OFF (PLAQUE)	CONCT		MISCELLANEOU		DOINT OF PRESENCE			
10-1 42RND, 9.62 012-1 24X24 4.00		RAILROAD CROSSING DOUBLE DOWN ARROW (SYMBOL)	4 <b></b>	48X36 12.00 96X48 32.00 2	2 64		POINT OF PRESENCE POINT OF PRESENCE			
012-1 24824 4.00		LOW CLEARANCE (SYMBOL)	4 <b></b>	48X24 8.00	. 04		RATE OUR WORK ZONE			
012-2X 24X18 3.00	<del>                                      </del>	LOW CLEARANCE (PLAQUE)	4 <b></b>	72X36 18.00			RATE OUR WORK ZONE			
012-2a 84X24 14.00		OVERHEAD LOW CLEARANCE (FEET AND INCHES)		48X36 12.00 2	2 24		WORK ZONE NO PHONE ZONE			
012-4 120X60 50.00		LOW CLEARANCE XX FT XX IN XX MILES AHEAD								
012-5   120X60   50.00		WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD								
013-1 30X30 6.25		ADVISORY SPEED (PLAQUE)	1							
016-2 30X24 5.00		XXX FEET (PLAQUE)	-							
016-3 30X24 5.00 020-1 48X48 16.00 28	118	X MILE (PLAQUE) ROAD/BRIDGE/RAMP WORK AHEAD	1							
020-1 48X48 16.00 28 020-2 48X48 16.00	770	DETOUR AHEAD	1	+ + +						
020-3 48X48 16.00		ROAD CLOSED AHEAD	1							
	64	ONE LANE ROAD AHEAD	616-10	•05	TOTAL	<del>'  </del>				
020-5 48X48 16.00		RIGHT/CENTER/LEFT LANE CLOSED AHEAD		UCTION SIGNS						
/020-5a 48X48 16.00		2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD	616-10	.10		TOTAL				
020-6a 48X48 16.00		RIGHT/CENTER/LEFT LANE CLOSED	RELOCA	TED SIGNS		0				
/020-7a 48X48 16.00 28	448	FLAGGER (SYMBOL, WITH FLAGS)	4							
V021-2 36X36 9.00	70	FRESH OIL	-							
	32	SHOULDER WORK AHEAD BLASTING ZONE AHEAD	-							
022-1 48X48 16.00 022-2 42X36 10.50		TURN OFF 2-WAY RADIO AND PHONE	-							
W022-3 42X36 10.50		END BLASTING ZONE	1	OLIANITITI	FS ARF FSTIM	NTED EOD 2	MILES			QUANTITY SHEET

OF M/SOO THANKAM MATHEW PE-201400056 ROUTE STATE
YY MO
DISTRICT SHEET NO.
KC 3 CASS JOB NO.
JKU0067
CONTRACT ID. PROJECT NO. BRIDGE NO.

QUANTITY SHEET SHEET 7 OF 7

WET PAINT (ARROW PIVOTS)

END BLASTING ZONE

W022-3 42X36 10.50

GO22-1 21X15 2.19 4 8.76

## Traffic Control Legend, Sign Spacing, Device Spacing, Channelizing Taper Lengths And Recommended Maximum Speed Reductions

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)		
PERMANENT POSTED SPEED MPH	UNDIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (f+.) (B)	TAPERS	BUFFER/WORK AREA LENGTH (ft.)	
0-35		200	70	245	280	35	40	
40-45		500	150	540	400	40	80	
50-55		1000	185	660	560	50	80	
60-70		SA-1000 SB-1500 SC-2640	235	840	840	60	120	
1. SHOULDER TAPER	LENGTH BASED ON	10 FT. (STANDA	ARD SHOULDER WIDTH:	OFFSET. 2.	LANE TAPER LENGTH B	ASED ON 12 FT. (S	STANDARD LANE WIDTH) OFFSET.	

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERMANENT POSTED SPEED MPH	UNDIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (f+.) (B)	TAPERS	BUFFER/WORK AREA LENGTH (ft.)
0-35	200		70	245	280	35	40
40-45	350		150	540	400	40	80
50-55	500		185	660	560	50	80
60-70	1000		235	840	840	60	120
			(STANDARD SHOULDER		ET.		

\*\* THE SA DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN.

THE SB DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS.

THE SC DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS.

(THE "FIRST SIGN" IS THE SIGN IN A THREE-SIGN SERIES THAT IS CLOSEST TO THE TEMPORARY TRAFFIC CONTROL ZONE. THE "THIRD SIGN" IS THE SIGN THAT IS FURTHEST UPSTREAM FROM THE TEMPORARY TRAFFIC CONTROL ZONE)

#### DETAILS NOTES:

- SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OF SIGNED CONDITION.
- SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
- (3) TAPER LENGTHS SHOWN INCLUDE LENGTH REQUIRED FOR LANE AND 10' SHOULDER
- (4) CONCRETE BARRIER MAY BE INSTALLED AT 8:1 FLARE RATE FROM THE SHOULDER POINT OF THE LIMITS OF THE CLEAR ZONE WHERE THE SIDE SLOPE IS 6:1 OR FLATTER

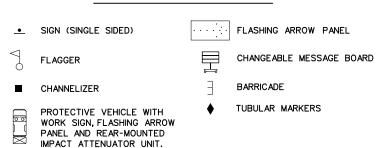
#### TAPER LENGTH (L)

- $L = \frac{WP^2}{60}$  FOR 35 MPH OR LESS
- L = TAPER LENGTH IN FEET
- P = POSTED SPEED PRIOR TO ROAD WORK IN MPH

L = W X P FOR 40 MPH OR MORE

- W = LATERAL SHIFT IN FEET

#### TRAFFIC CONTROL LEGEND



#### LEGEND NOTE:

THE PROTECTIVE VEHICLE SIGN SHALL BE MOUNTED AT A RECOMMENDED HEIGHT OF 48 IN. ABOVE THE ROAD SURFACE.

#### **GENERAL NOTES:**

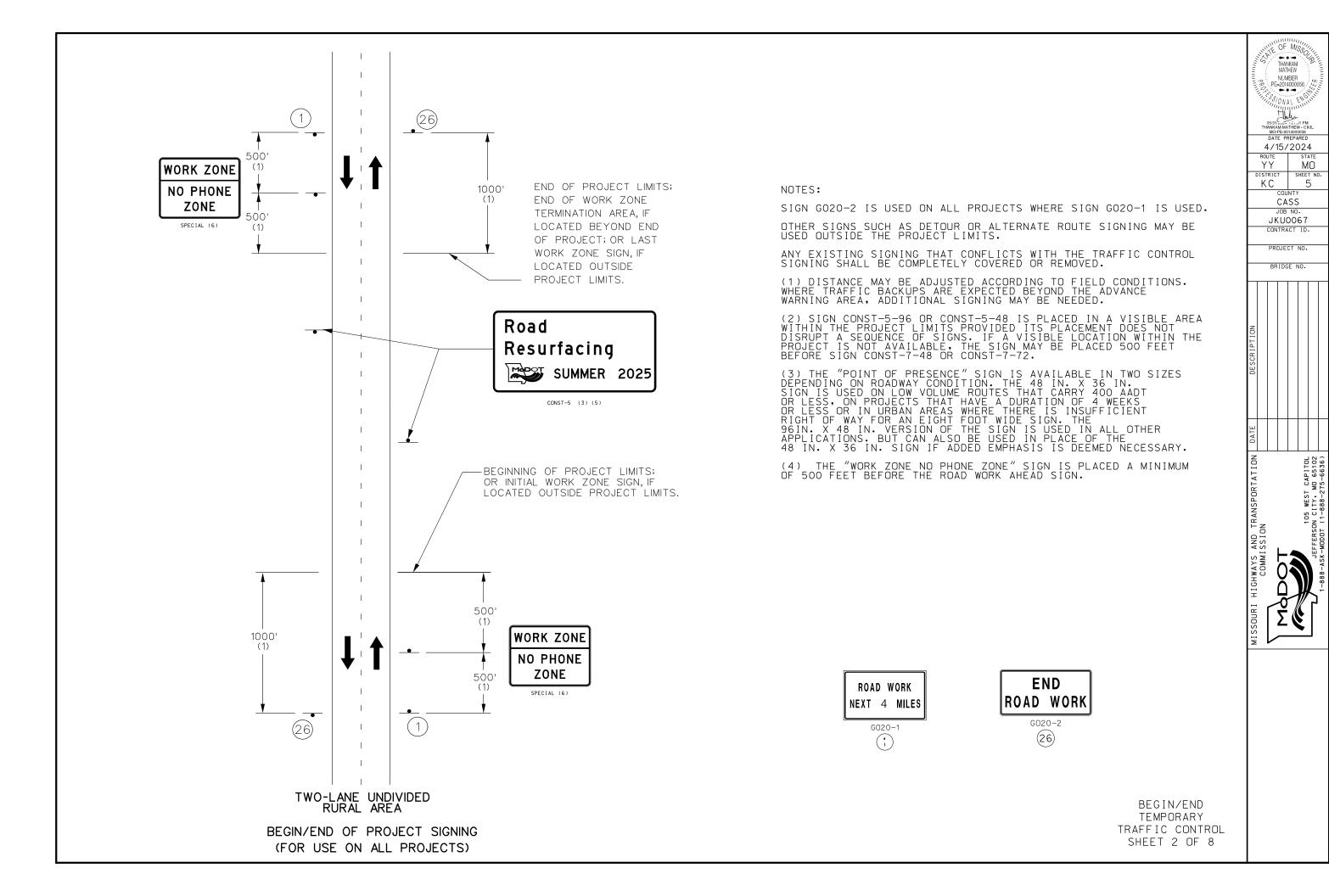
- 1. SEE STANDARD PLAN 616.10 FOR DETAILS AND ITEMS NOT SHOWN.
- 2. EXISTING SIGNS SHALL BE COVERED DURING WORKING HOURS ONLY IF IN CONFLICT WITH TRAFFIC CONTROL PLANS.
- 3. NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING OR REMOVING SIGNS.
- 4. CONES ALLOWABLE FOR DAYTIME OPERATIONS ONLY.
- 5. LOCATE FLASHING ARROW PANEL AT BEGINNING OF TAPER WHEN FEASIBLE, ARROW PANELS ARE ALWAYS LOCATED BEHIND CHANNELIZERS OR CONES.
- 6. THE PLACEMENT OF THE CMS's ARE TO BE DIRECTED BY THE ENGINEER IN CHARGE.

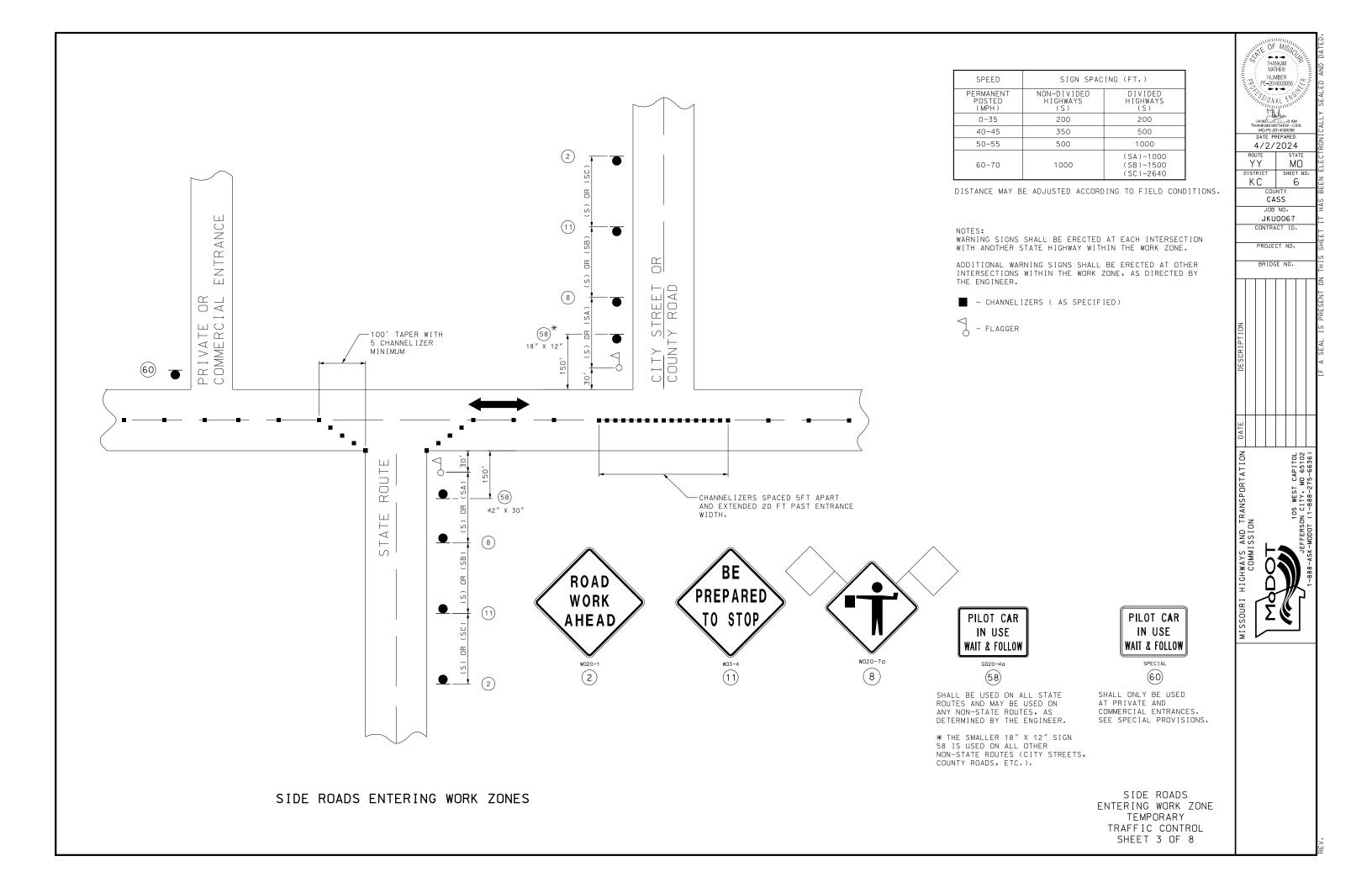
RECOMMENDED MAXIMU	JM SPEED REDUCTIONS
ACTIVITY (I.E. WORKERS, EQUIPMENT OR MATERIAL) LOCATION	RECOMMENDED WORK ZONE SPEED REDUCTION (WHEN APPLICABLE)
10 FT. BEYOND EDGE OF TRAVELWAY TO EDGE OF RIGHT OF WAY	NO SPEED REDUCTION
IN TRAFFIC LANE OR WITHIN 10FT. OF THE TRAFFIC LANE	10 MPH
HEAD-TO-HEAD ON MULTILANE	10 MPH

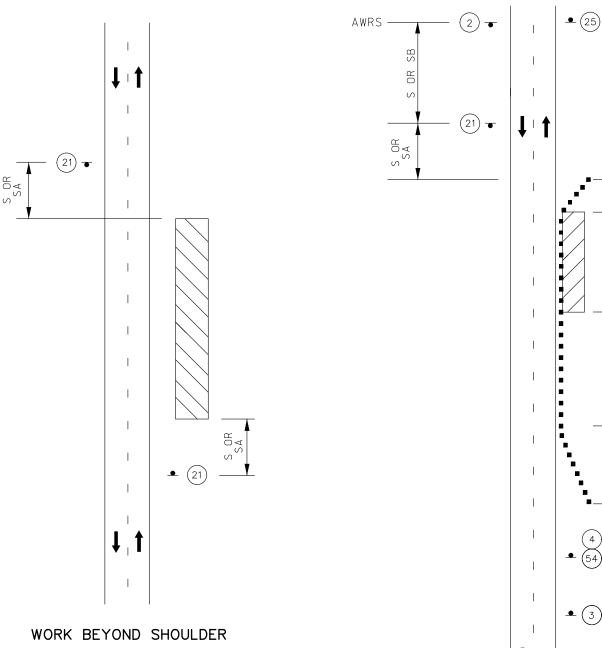
SPECIAL CIRCUMSTANCES WITHIN A TEMPORARY TRAFFIC CONTROL WORK ZONE MAY WARRANT A LOWER SPEED LIMIT THAN RECOMMENDED ABOVE. ALL SPEED LIMIT REDUCTIONS GREATER THAN 10 MPH SHALL BE DOCUMENTED, SUBMITTED TO AND APPROVED BY THE DISTRICT WORK ZONE COORDINATOR.

DEVICE SPACING TEMPORARY TRAFFIC CONTROL SHEET 1 OF 8

THANKAM MATHEW NUMBER 4/2/2024 ΥY SHEET NO КC CASS JKU0067 CONTRACT ID. PROJECT NO. BRIDGE NO.







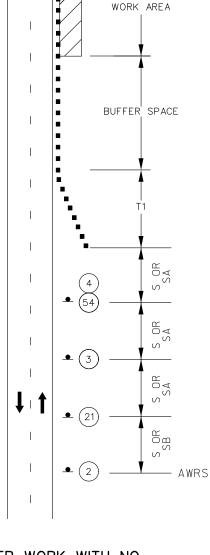
ONLY APPLICABLE WHEN WORK IS WITHIN THE CLEAR ZONE.

SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.

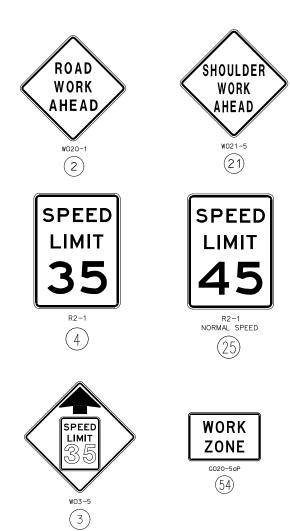
ON MULTI-LANE, DIVIDED HIGHWAYS SIGNS ADVISING OF SHOULDER WORK OR THE CONDITION OF THE SHOULDER SHOULD BE PLACED ONLY ON THE SIDE OF THE AFFECTED SHOULDER.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH -INTENSITY ROTATING FLASHING, OSCILLATING, OR STROBE LIGHTS.



100' TAPER 5 DEVICE MINIMUM

SHOULDER WORK WITH NO TRAVELWAY ENCROACHMENT



#### NOTES:

POSTED WORK ZONE SPEED LIMIT SHALL NOT BE BELOW 35 MPH. EXCEPT WHEN LOCAL ORDINANCE PROVIDES FOR A LOWER SPEED. THE LOWER SPEED SHALL BE USED WHEN APPLICABLE.

SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

SIGN 2 NOT REQUIRED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER SIGN 2 IS ALREADY USED.

PROVIDE SIGNS ON LEFT AND RIGHT SIDE OF DIVIDED HIGHWAYS.

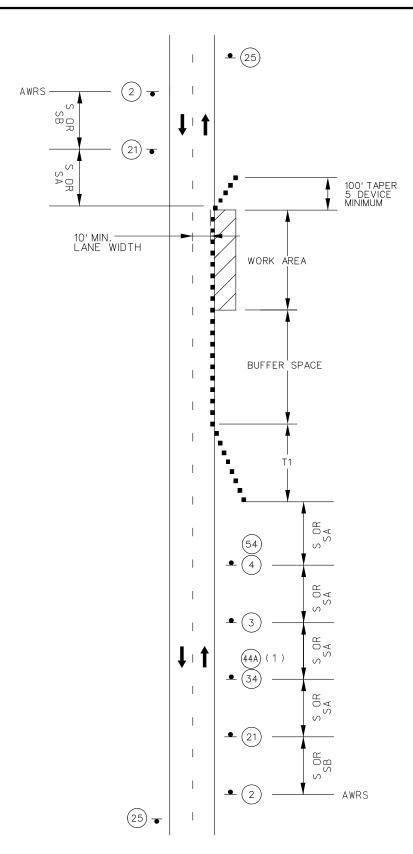
VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH -INTENSITY ROTATING FLASHING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

WHEN PAVED SHOULDERS HAVING A WIDTH OF 8 FEET OR MORE ARE CLOSED, AT LEAST ONE ADVANCE WARNING SIGN SHALL BE USED. IN ADDITION, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK SPACE AND DIRECT VEHICULAR TRAFFIC TO REMAIN WITHIN THE TRAVELED WAY.

AWRS-ADVANCED WARNING RAIL SYSTEM

SHOULDER WORK TEMPORARY TRAFFIC CONTROL SHEET 4 OF 8

	CAOSE JOS AM THANKAM MATHEW - CIVIL MO-PE-2014000056  DATE PREPARED 4/2/2024  ROUTE STATE MO DISTRICT SHEET NO. K C 7  COUNTY CASS JOB NO. JKUO067 CONTRACT ID.  PROJECT NO.  BRIDGE NO.										
DESCRIPTION								TE A SEAL IS DDESENT ON THIS SHEET I			
DATE											
ISSOURI HIGHWAYS AND TRANSPORTATION	COMMISSION				105 WEST CAPITOL	JEFFERSON CITY, MD 65102	1-888-ASK-MODOT (1-888-275-6636)				



TWO LANE UNDIVIDED SHOULDER WORK MINOR TRAVELWAY ENCROACHMENT



















POSTED WORK ZONE SPEED LIMIT SHALL NOT BE BELOW 35 MPH, EXCEPT WHEN LOCAL ORDINANCE PROVIDES FOR A LOWER SPEED. THE LOWER SPEED SHALL BE USED WHEN APPLICABLE.

SEE TRAFFIC CONTROL SHEET 1 FOR WORKZONE SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

SIGN 2 NOT REQUIRED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER SIGN 2 IS ALREADY USED.

THE PROTECTIVE VEHICLE MAY BE OMITTED IF A TAPER AND CHANNELIZING DEVICES ARE USED.

VEHICLE- MOUNTED SIGNS SHALL BE MOUNTED IN A MANNER SUCH THAT THEY ARE NOT OBSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGEND ON VEHICLE-MOUNTED SIGNS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH -INTENSITY ROTATING FLASHING, OSCILLATING, OR STROBE LIGHTS.

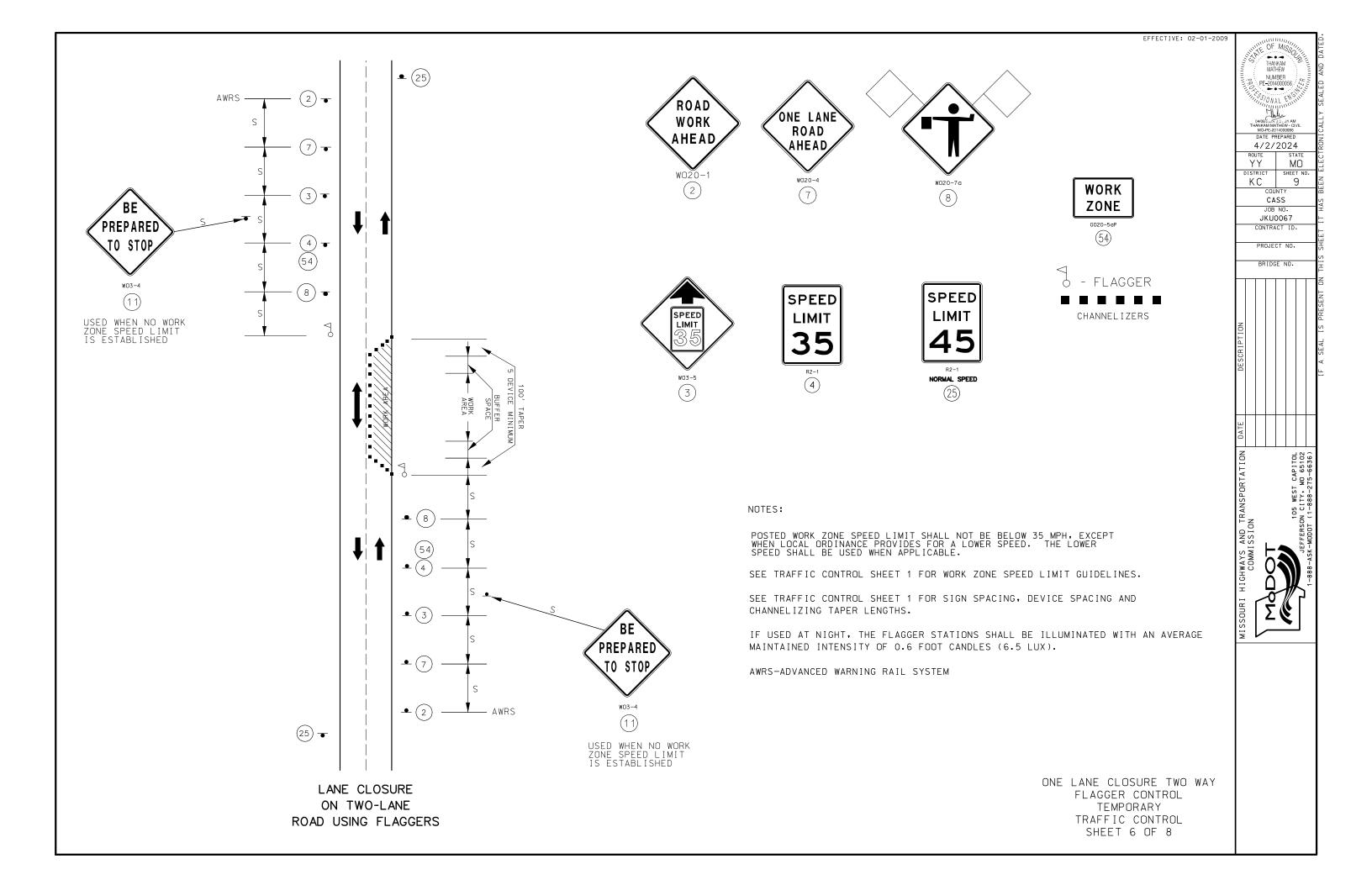
SHADOW AND WORK VEHICLES SHALL DISPLAY HIGH-DENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

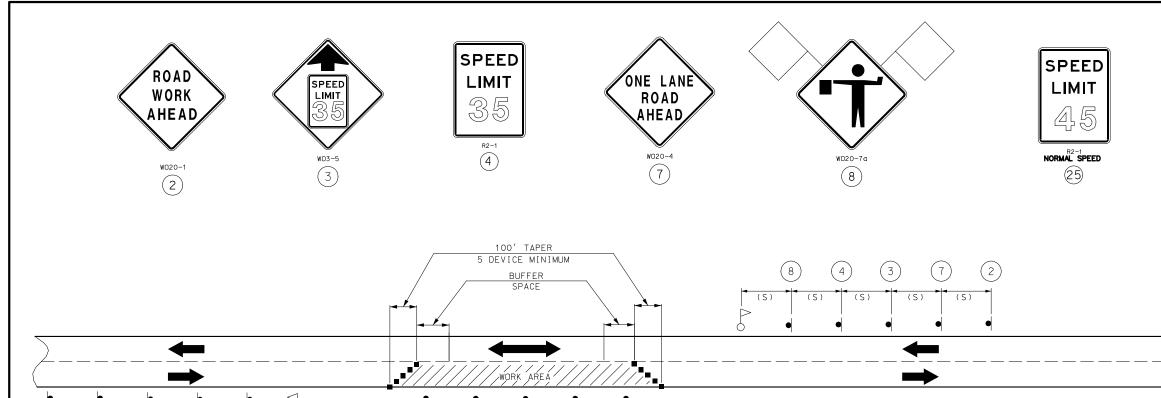
AWRS-ADVANCED WARNING RAIL SYSTEM

(1). SIGN 44A NOT REQUIRED FOR NARROW LANE SECTIONS LESS THAN ONE MILE.

THANKAM MATHEW NUMBER PE-2014000056 4/2/2024 ΥY MΩ DISTRICT SHEET NO КC 8 CASS JKU0067 CONTRACT ID PROJECT NO. BRIDGE NO.

SHOULDER WORK MINOR ENCROACHMENT TEMPORARY TRAFFIC CONTROL SHEET 5 OF 8





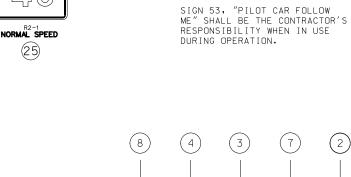
(4)

(3)

SET 2

INACTIVE

(2)

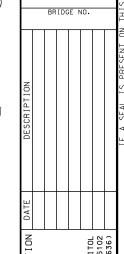


**PILOT CAR** 

FOLLOW ME

G020-4

(53)



THANKAM MATHEW NUMBER PE-2014000056

04/08-2024 J.Sz. 10 AM THANKAM MATHEW - CIVIL MO-PE-2014000056

4/2/2024

CASS JOB NO. JKU0067 CONTRACT ID.

PROJECT NO.

MΩ

SHEET NO.

10

ΥY

DISTRICT

KC

NOTES:

(S)

(3)

(2)

(S)

SET 1

ACTIVE

(4)

(S)

POSTED WORK ZONE SPEED LIMIT SHALL NOT BE BELOW 35 MPH, EXCEPT WHEN LOCAL ORDINANCE PROVIDES FOR A LOWER SPEED. THE LOWER SPEED SHALL BE USED WHEN APPLICABLE.

(S)

(8)

SIGN SETS 1 AND 3 ARE ACTIVE AND (I.E., SIGNS FACE ONCOMING TRAFFIC).

SIGN SETS 2 AND 4 ARE INACTIVE (I.E., SIGNS DO NOT FACE EITHER DIRECTION OF TRAFFIC) WHEN THE RESURFACING OPERATION IS LOCATED BETWEEN SIGN SETS 1 AND 3.

WHEN SIGN SETS 2 AND 4 ARE ACTIVE, SIGN SETS 1 AND 3 BECOME INACTIVE AND ARE ADVANCED TO BECOME SETS 2 AND 4 WITH SIGN LEGENDS TURNED AWAY FROM BOTH DIRECTIONS OF TRAFFIC. WHEN THE RESURFACING OPERATION ADVANCES TO BETWEEN SIGN SETS 2 AND 4, SIGN SETS 2 AND 4 BECOME ACTIVE (I.E., NEW SIGN SETS 1 AND 3) AND SIGN SETS 1 AND 3 ADVANCED IN THE DIRECTION OF THE OPERATION (I.E., NEW SIGN SETS 2 AND 4).

AWRS-ADVANCED WARNING RAIL SYSTEM

DAYLIGHT FLAGGING OPERATIONS ONLY.

CHANNELIZING DEVICES LOCATED DOWNSTREAM OF THE ONE-LANE, TWO-WAY TAPER ARE OPTIONAL. THESE DEVICES SHOULD BE ELIMINATED WHEN THEIR USE WILL REDUCE THE USABLE LANE WIDTH, INCLUDING ANY ACCEPTABLE SHOULDERS, TO LESS THAN 10' OR WILL SIGNIFICANTLY AFFECT THE RESURFACING OPERATION.

SPEED	SIGN SPACING (FT.) (1)		
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)	
0-35	200	200	
40-45	350	500	
50-55	500	1000	
60-70	1000	(SA)-1000 (SB)-1500 (SC)-2640	

SET 3

ACTIVE

10	т	_	c	

(1) SPACING BETWEEN SIGNS, BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER OR SIGNED

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

- CHANNELIZERS

- FLAGGER

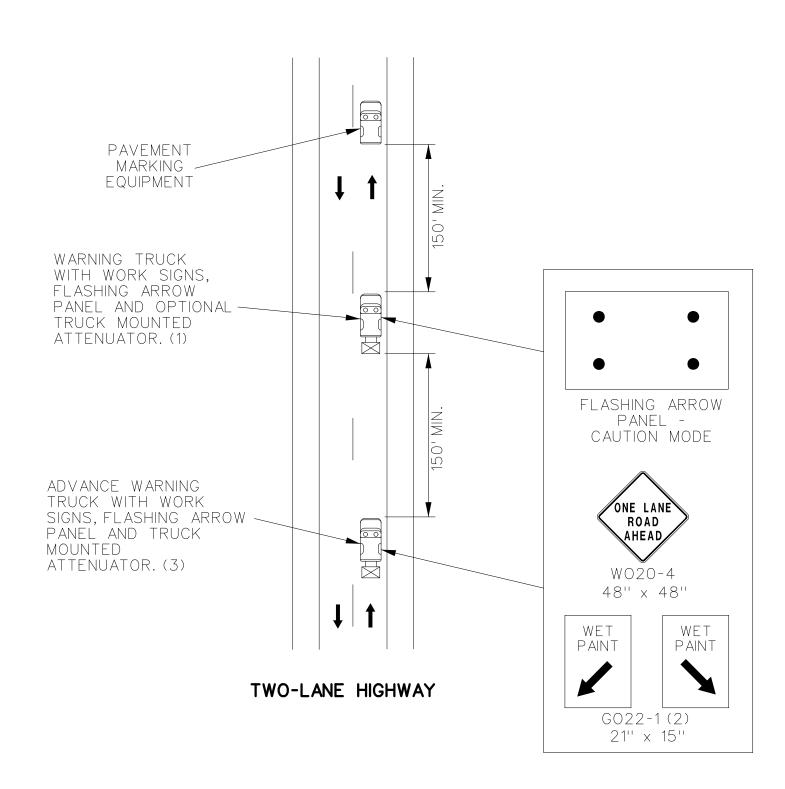
PERMANENT POSTED	BUFFER SPACE	
SPEED LIMIT	LENGTH	
(MPH)	(FT)	
0 - 35	280	
40 - 45	400	
50 - 55	560	
60 - 70	840	

FLAGGER CONTROL TEMPORARY TRAFFIC CONTROL SHEET 7 OF 8

ONE LANE CLOSURE TWO WAY

SET 4

INACTIVE



UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCK EQUIPPED WITH PROPER WARNING DEVICES.

PROTECTIVE TRUCK AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROPE LIGHTS.

FLASHING ARROW PANELS SHALL BE INCIDENTAL TO TRUCK MOUNTED ATTENUATORS, WHEREVER USED, NO ADDITIONAL PAYMENT SHALL BE MADE.

- (1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD IS MOUNTED ON THE PAVEMENT MARKING EQUIPMENT.
- (2) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.
- (3) REAR ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE, OR SPACING SHOWN.

THANKAM MATHEW 4/2/2024 ΥY KC 11 CASS JOB NO. JKU0067 CONTRACT ID. PROJECT NO. BRIDGE NO.

MOVING OPERATION ON HIGHWAY OPEN TO TRAFFIC

MOVING OPERATION
OPEN TO TRAFFIC
TEMPORARY
TRAFFIC CONTROL
SHEET 8 OF 8