DESIGN DESIGNATION

V = 55 M.P.H.

A.A.D.T. - 2024 = 3.386T = 9.5%

FUNCTIONAL CLASSIFICATION - MAJOR COLLECTOR/MINOR ARTERIAL

NO NEW RIGHT OF WAY REQUIRED

BEGIN PROJECT L.M. 21.499

(USED IN PLANS	5)	
	EXISTING	NEW
BUILDINGS AND STRUCTURES GUARD RAIL GUARD CABLE CONCRETE RIGHT-OF-WAY MARKER STEEL RIGHT-OF-WAY MARKER LOCATION SURVEY MARKER UTILITIES	0000 0000 177 ()	••••• ••••
FIBER OPTICS OVERHEAD CABLE TV UNDERGROUND CABLE TV OVERHEAD TELEPHONE UNDERGROUND TELEPHONE OVERHEAD POWER UNDERGROUND POWER SANITARY SEWER STORM SEWER GAS WATER	- FOOTVUTV OT UT OE UE SS G W	-F0- -OTV- -UTV- -OT- -UT- -OE- -UE- -S- -SS- -G-
MANHOLE	HYD.)
FIRE HYDRANT	wv C	Ì
WATER VALVE	‴* C)
WATER METER)
DROP INLET	Ĭ	
DITCH BLOCK	=	⊨
GROUND MOUNTED SIGN	SIGN	-
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL FENCE CHAIN LINK WOVEN WIRE GATE POST	—— X	: :
BENCHMARK	<)

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY

OSAGE COUNTY



LOCATION OF OSAGE COUNTY

LENGTH OF PROJECT -	RTE	89
---------------------	-----	----

APPARENT LENGTH 91.006.08 FEET

EQUATIONS AND EXCEPTIONS:

BRIDGE A1410 EXCEPTION LM 27.873 - LM 27.927 285.12 FEET

MO SHEET NO

1

JCD0150

CONTRACT ID. PROJECT NO.

DESCRIPTION TITLE SHEET ------TYPICAL SECTIONS (TS) (1 SHEET)---QUANTITIES (QU) (4 SHEETS)-----SPECIAL SHEETS (SS) ----- 4-8 TRAFFIC CONTROL SHEETS (TC)----- 9-13

INDEX OF SHEETS

SHEET NUMBER 8/5/2025 89 CD OSAGE/MARIES

BEGINNING OF PROJECT	L.M.	21.49
END OF PROJECT	L.M.	38.73

BRIDGE A1411 EXCEPTION LM 28.275 - LM 28.425 792.00 FEET

TOTAL CORRECTIONS

0.1 ACRES

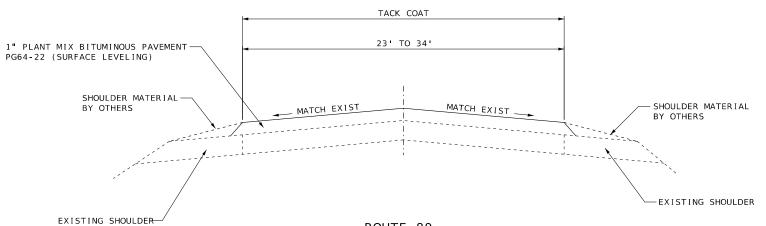
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES

1,077.12 FEET 89,928.96 FEET NET LENGTH OF PROJECT STATE LENGTH 17.032 MILES

		RAIL UPGRADES RAIL UPGRADES RAIL UPGRADES A1410 EXCEPTION S	73	34 35 36 31 32 3 2 44000b	3 3 3 35 36 3 2 UDGE	31 32 33 3	Poses COOPER HILL	T42N Grick Church Rd
CONVENTIONAL (USED IN PLANS		. STII GUARD T.W. 27.9	27	11 RICH FOUNTAIN 1460001 1460001 1460003 18	Rollins Ferry Access 14 13	The state of the s	SVILLE 12	eb _{re}
BUILDINGS AND STRUCTURES GUARD RAIL GUARD CABLE CONCRETE RIGHT-OF-WAY MARKER STEEL RIGHT-OF-WAY MARKER LOCATION SURVEY MARKER UTILITIES FIBER OPTICS OVERHEAD CABLE TV UNDERGROUND CABLE TV OVERHEAD TELEPHONE UNDERGROUND TELEPHONE OVERHEAD POWER UNDERGROUND POWER SANITARY SEWER STORM SEWER GAS WATER	EXISTING NEW	PROJECT LIMITS - ROUTE 1. RESURFACING & GUARDRAIL 1. RES	29 28 32 33 4 1810002	15 Juges 1 14 113 19 20 21 19 20 21 23 24 19 20 21 23 24 19 20 21 25 25 25 25 25 25 25 25 25 25 25 25 25	28 26 26 33 34 35 36 36 36 36 36 36 36 36 36 37 37 37 38 37 37 37 37 37 37 37 37 37 37 37 37 37	19 20 21 22 ENIG 30 729 28 31 32 33 760299 1690009 C F6VRON	2 24 23 24 25 34 35 33 34 35 33 34 35	
MANHOLE	SAN HYD			Row Rew		BELLE	13 R7W	L.X.—
FIRE HYDRANT	a							1 0°
WATER VALVE	w> ⊖ wa ⊕	I L				4/6/4	Į.	7
WATER METER			*MA	RIES		11 7		
DROP INLET	· -	BELLE MILL 3			The state of			10
DITCH BLOCK	SIGN_	≥ -						
GROUND MOUNTED SIGN		<u>~</u>					NOT TO	SCALE
LIGHT POLE		2						
H-FRAME POWER POLE TELEPHONE PEDESTAL FENCE	PED	▼ END PROJECT L.M. 38.735						
CHAIN LINK WOVEN WIRE	v							

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.

BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING)	1.987 TON/YD
TACK COAT (EXIST. ASPH.)	.08 GAL/YD²
TACK COAT (COLDMILLED ASPH.)	.10 GAL/YD²



ROUTE 89 TYPICAL SECTION

LOG MILE 21.499 TO LOG MILE 27.859 - 23' WIDTH

LOG MILE 27.859 TO LOG MILE 27.873 - WIDTH VAR 26' TO 30'

LOG MILE 27.927 TO LOG MILE 27.941 - WIDTH VAR 30' TO 26'

LOG MILE 27.941 TO LOG MILE 28.267 - 23' WIDTH

LOG MILE 28.267 TO LOG MILE 28.275 - WIDTH VAR 26' TO 30'

LOG MILE 28.425 TO LOG MILE 28.433 - WIDTH VAR 30' TO 26'

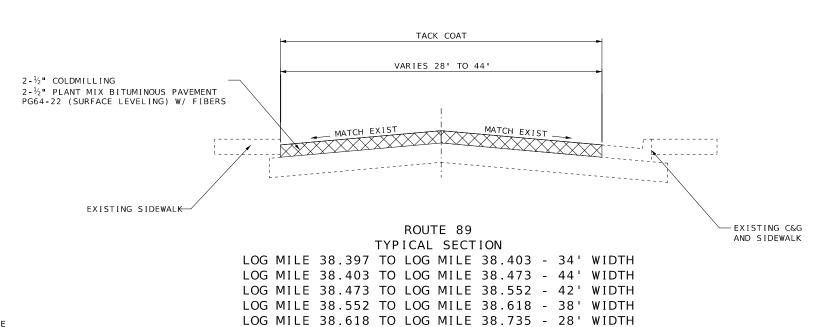
LOG MILE 28.433 TO LOG MILE 38.357 - 23' WIDTH

LOG MILE 38.357 TO LOG MILE 38.377 - WIDTH VAR 23' TO 30'

LOG MILE 38.377 TO LOG MILE 38.392 - 30' WIDTH

LOG MILE 38.392 TO LOG MILE 38.397 - WIDTH VAR 30' TO 34'

EXCEPTION: BRIDGE A1410 - L.M. 27.873 TO L.M. 27.927 EXCEPTION: BRIDGE A1411 - L.M. 28.275 TO L.M. 28.425



TYPICAL SECTION
SHEET 1 OF 1

OFEGORY G.
LEARY
NUMBER
PE-026654

SONAL EMPLOYERS
GREGORY G. LEARY - CIVIL

B / 5 / 2025

ROUTE STATE
89 MO
DISTRICT SHEET NO.
CD 2

OSAGE/MARIES

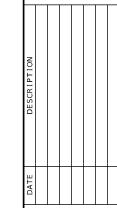
JOB NO.

JCD0150

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
LEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6586)

		REMOVAL	OF IMPROVEM	MENTS
LOG MILE	LOG MILE	LOCATION	QUANTITY	REMARKS
27.526	27.682	MO 89 - LT	820 LF GUARDRAIL	
27.559	27.578	MO 89 - RT	100 LF GUARDRAIL	NORTH OF CO RD 623
27.592	27.661	MO 89 - RT	365 LF GUARDRAIL	SOUTH OF CO RD 623
28.520	28.681	MO 89 - LT	765 LF GUARDRAIL	
28.701	28.774	MO 89 - LT	380 LF GUARDRAIL	
28.866	28.942	MO 89 - RT	385 LF GUARDRAIL	
		TOTAL	2815 LF	
		USE	1 LUMP SUM	

GRAVEL (A) OR CRUSHED STONE (B)									
			NET	GRAVEL OR					
			LENGTH	CRUSHED STONE					
LOG MILE	LOG MILE	LOCATION	MILES	TONS	REMARKS				
21.499	38.735	ROUTE 89	17.236	690					
			TOTAL						
				690					
			USE	690					

PATCHING ROUTES FOR DAMAGED PAVEMENT										
		NET REMOVAL OF REPLACEMENT OF								
	LENGTH DAMAGED PAVEMENT DAMAGED PAVEMENT									
LOG MILE	LOG MILE	LOCATION	MILES	SY	TON	REMARKS				
21.499	38.735	ROUTE 89	17.236	250	41.40					
			TOTAL	250	41.4					
			USE	250	41.4					

			1 " B	LITUMIN	OUS PA	VEMENT	(SURFACE LEVE	I ING) (PG64	-22)
			T	71 1011111	005 171	VEHILIVI	SURFACE	<u> </u>	
					AVG		LEVELING	TACK	
				LENGTH	WIDTH	AREA	1.987 TONS/CY	COAT	
LOG MILE	LOG MILE	LOCATION	MILES	FT	FT	SF	TONS	GAL	REMARKS
21.499	27.859	MO 89	6.360	33580.8	23	31	4736.65	6865.0	BEGIN PROJECT AT US 50 INTERSECTION
27.859	27.873	MO 88	0.014	73.92	28		12.69	18.0	WIDTH VARIES 26' TO 30'
27.833	27.927	MO 89	0.014	285 12	20		12.09	10.0	BRIDGE A1410 EXCEPTION
27.873	27.941	MO 89	0.014	73.92	28		12.69	18.0	WIDTH VARIES 30' TO 26'
27.927	28.101	MO 89	0.160	844.8	23		119.16	173.0	#10111 VARILES 30 10 20
28.101	28.148	MO 89	0.100	248.16	VAR	14805	90.79	132.0	MO 89 AND ROUTE E INTERSECTION
28.148	28.267	MO 89	0.119	628.32	23	14003	88.63	128.0	MO US AND NOOTE E THTENSECTION
28.267	28.275	MO 89	0.119	42.24	28		7.25	11.0	WIDTH VARIES 26' TO 30'
28.275	28.425	MO 89	0.150	792	20		7.23	11.0	BRIDGE A1411 EXCEPTION
28.425	28.433	MO 89	0.008	42.24	28		7.25	11.0	WIDTH VARIES 30' TO 26'
28.433	38.357	MO 89	9.924	52398 72	23		7390.97	10713.0	#15111 V/M(125 55 16 25
38.357	38.377	MO 89	0.020	105.6	26.5		17.16	25.0	WIDTH VAR 23' TO 30'
38.377	38.392	MO 89	0.015	79.2	30		14.57	21.0	W15111 V/W 25 10 50
38.392	38.397	MO 89	0.005	26.4	32		5.18	8.0	WIDTH VAR 30' TO 34'
		110 00					0.110		# 15 11 7 W C C C C C C C C C C C C C C C C C C
33.999		MO 89				5225	32.04	46.4	ROUTE D INTERSECTION
37.546		MO 89				5300	32.50	47.1	ROUTE Y INTERSECTION
21.499	38.735	MO 89					138.90	200.0	PRIVATE ENTRANCES AND COUNTY ROADS
							3141.8825		25% irregularities
						TOTAL	15848.31	18416.50	ESTIMATE FACTORS:
						USE	15848.3	18417	TACK COAT RESURFACING = 0.08 GAL/SY

MOBILIZATION										
TOTAL	_	1	LUMP	SUM						

2-1/2" HIGH TENSILE STRENGTH SYNTHETIC FIBER BITUMINOUS PAVEMENT (SURFACE LEVELING)(PG64-22)												
							SURFACE					
							LEVELING					
					AVG		W/ FIBERS	TACK				
				LENGTH	_	AREA	1.987 TONS/CY	_				
LOG MILE	LOG MILE	LOCATION	MILES	FT	FT	SY	TONS	GAL	REMARKS			
38.397	38.403	MO 89	0.006	31.68	34	119.7	16.51	12.0	MILL & FILL THROUGH BELLE - FIRST STREET			
38.403	38.473	MO 89	0.070	369.6	44	1806.9	249.33	181.0	MILL & FILL THROUGH BELLE - FIRST ST TO SECOND ST			
38.473	38.552	MO 89	0.079	417.12	42	1946.6	268.60	195.0	MILL & FILL THROUGH BELLE - SECOND ST TO THIRD ST			
38.552	38.618	MO 89	0.066	348.48	38	1471.4	203.03	147.0	MILL & FILL THROUGH BELLE - THIRD ST TO FOURTH ST			
38.618	38.735	MO 89	0.117	617.76	28	1921.9	265.20	192.0	MILL & FILL THROUGH BELLE - END PROJECT			
						TOTAL	1002.67	727.0	ESTIMATE FACTORS:			
						USE	1002.7	727	TACK COAT COLDMILL = 0.10 GAL/SY			

SUMMARY OF QUANTITIES SHEET 1 OF 4

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			JOB CD(ITR#	NO									
			OJE										
		BR	IDG	SE N	10.								
DESCRIPTION													
DATE													
ANSPORTATION					5 WEST CAPITOL	CITY, MO 65102	1-888-275-6636)						

	COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OR SURFACING (3 IN. THICK OR LESS)								
				LENGTH	WIDTH	COLDMILL			
LOG MILE	LOG MILE	LOCATION	MILES	FT	FT	SY	REMARKS		
38.397	38.403	MO 89	0.006	31.68	34	119.7	2-1/2" MILL & FILL THROUGH BELLE - FIRST STREET		
38.403	38.473	MO 89	0.070	369.6	44	1806.9	2-1/2" MILL & FILL THROUGH BELLE - FIRST ST TO SECOND ST		
38.473	38.552	MO 89	0.079	417.12	42	1946.6	2-1/2" MILL & FILL THROUGH BELLE - SECOND ST TO THIRD ST		
38.552	38.618	MO 89	0.066	348.48	38	1471.4	2-1/2" MILL & FILL THROUGH BELLE - THIRD ST TO FOURTH ST		
38.618	38.735	MO 89	0.117	617.76	28	1921.9	2-1/2" MILL & FILL THROUGH BELLE - END PROJECT		
					TOTAL	7266.5			
					USE	7267			

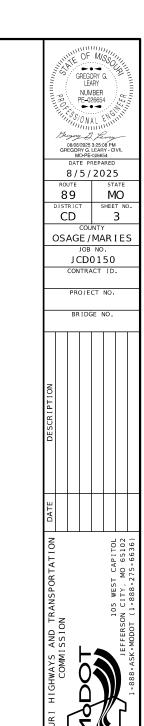
				MOD I F	IED COL	D MILLING	
00 MJ 5	LOC MALE	LOCATION	LENGTH	AVG WIDTH	AVERAGE AREA	MODIFIED COLDMILLING	DEMARKS
	LOG MILE	LOCATION	FT	FT	SF	SY	REMARKS
21.499	21.504	ROUTE 89	25	23	575	63.89	BEGIN PROJECT
27.868	27.873	ROUTE 89	25	30	750	83.33	BRIDGE A1410
27.927	27.932	ROUTE 89	25	30	750	83.33	BRIDGE A1410
28.124		ROUTE 89	25	26	650	72.22	ROUTE E INTERSECTION (24' TO 28' WIDTH)
28.270	28.275	ROUTE 89	25	30	750	83.33	BRIDGE A1411
28.425	28.430	ROUTE 89	25	30	750	83.33	BRIDGE A1411
33.999		ROUTE 89	10	22	220	24.44	ROUTE D INTERSECTION
37.546		ROUTE 89	10	22	220	24.44	ROUTE Y INTERSECTION
38.392	38.397	ROUTE 89	25	32	800	88.89	BELLE - FIRST STREET
21.510		MO 89 - RT	125	2	250	27.78	PRIVATE - CONCRETE
21.525		MO 89 - LT	102	2	204	22.67	COMMERCIAL - BREAK TIME - CONCRETE
21.550		MO 89 - RT	20	2	40	4.44	PRIVATE - CONCRETE
21.550		MO 89 - LT	38	2	76	8.44	COMMERCIAL - BREAK TIME - CONCRETE
21.560		MO 89 - RT	20	2	40	4.44	PRIVATE - CONCRETE
21.565		MO 89 - LT	82	2	164	18.22	COMMERCIAL - DOLLAR GENERAL - CONCRETE
21.595		MO 89 - RT	50	2	100	11.11	PRIVATE - CONCRETE
21.610		MO 89 - RT	95	2	190	21.11	STONEGATE AVE - CONCRETE
21.645		MO 89 - LT	35	2	70	7.78	PRIVATE - ASPHALT
21.655		MO 89 - RT	20	2	40	4.44	PRIVATE - ASPHALT
21.675		MO 89 - LT	65	2	130	14 44	COMMERCIAL - OSAGE AMBULANCE DIST - CONCRETE
21.680		MO 89 - RT	32	2	64	7.11	PRIVATE - ASPHALT
21.715		MO 89 - LT	102	2	204	22.67	COMMERCIAL - OSAGE AMBULANCE DIST - CONCRETE
21.795		MO 89 - LT	56	2	112	12.44	COMMERCIAL - THREE RIVERS ELECTRICT - CONCRETE
21.930		MO 89 - RT	58	2	116	12.89	SAMSON DRIVE - ASPHALT
21.935		MO 89 - LT	180	2	360	40.00	COMMERCIAL - THREE RIVERS ELECTRICT - CONCRETE
22.020		MO 89 - LT	24	2	48	5.33	PRIVATE - ASPHALT
22.075		MO 89 - RT	50	2	100	11.11	COUNTY ROAD 620 - NORTH - ASPHALT
22.118		MO 89 - RT	56	2	112	12.44	COUNTY ROAD 620 - SOUTH - ASPHALT
22.735		MO 89 - RT	32	2	64	7.11	PRIVATE - CONCRETE
22.798		MO 89 - RT	22	2	44	4.89	PRIVATE - ASPHALT
22.730		MO 89 - RT	30	2	60	6.67	PRIVATE - CONCRETE
22.860		MO 89 - LT	22	2	44	4.89	PRIVATE - CONCRETE
22.898		MO 89 - ET	32	2	64	7.11	PRIVATE - CONCRETE
23.359		MO 89 - KT	44	2	88	9.78	PRIVATE - CONCRETE
23.667		MO 89 - ET	80	10	800	88.89	COUNTY ROAD 623 - NORTH - ASPHALT
24.695		MO 89 - KT	30	2	60	6.67	PRIVATE - ASPHALT
27.152		MO 89 - LT	VAR	VAR	1525	169.44	COUNTY ROAD 811 - ASPHALT
27.132		MO 89 - ET	75	10	750	83.33	COUNTY ROAD 623 - SOUTH - ASPHALT
38.015		MO 89 - KT	32	2	64	7.11	ROHRER DRIVE - ASPHALT
38.085		MO 89 - LT	20	2	40	4.44	PRIVATE - ASPHALT
38.137		MO 89 - LT	16	2	32	3.56	PRIVATE - ASPHALT
38.177		MO 89 - LT	34	2	68	7.56	BELAIR STREET - ASPHALT
38.277		MO 89 - LT	22	2	44	4.89	PRIVATE - ASPHALT
30.211		140 03 - FI	22		44	4.09	FRIVALL - ASFRALI
					TOTAL	1292.40	
					USE	1292,40	
					UJL	1232	

R/5/2025 ROUTE SHEET NO. PROJECT NO. BRIDGE NO.	THI I I I I I I I I I I I I I I I I I I	THE PROPERTY OF	DAT	NUM PE-0: 0 N	1BER 2665 AL 11111 3:29: LEAF 0266	G 4 4 28 PM 18Y - CI 54	IN SEE BOUND	THURWAY
OSAGE / MARIES JOB NO. J CD0150 CONTRACT ID. PROJECT NO. BRIDGE NO.	\vdash	RO	8 / UTE	5 /	20) 2 5	ATE	
CD 3 COUNTY OSAGE/MARIES JOB NO. JCD0150 CONTRACT ID. PROJECT NO. BRIDGE NO.	L	8 151	9 RIC	Т	9).
OSAGE/MARIES JOB NO. JCD0150 CONTRACT ID. PROJECT NO. BRIDGE NO.			D			3		
JCD0150 CONTRACT ID. PROJECT NO. BRIDGE NO.	()S	ΑG	E/	MΑ	AR I	E:	S
PROJECT NO. BRIDGE NO.			J	CDO) 1	50		
BRIDGE NO.			CON	TRA	СТ	ID	•	
NO1.			PR	DJE	СТ	NO.		
DESCRIPTION			BR	IDG	E I	VO.		
	DESCRIPTION							
	IGHWAYS AND TRANSPORTATION	COMMISSION		⊢ 00		105 WEST CAPITOL	JEFFERSON CITY, MO 65102	-888-ASK-MODOT (1-888-275-6636)

SUMMARY OF QUANTITIES
SHEET 2 OF 4

		CLASS 1 PA	VEMENT M	ARKING PAINT (18-MIL, TYPE F	P BEADS)
			LENGTH	4" YELLOW	4" WHITE	
LOG MILE	LOG MILE	LOCATION	FT	LF	LF	REMARKS
21.499	26.862	ROUTE 89	28316.64	56633.28	56633.28	DOUBLE YELLOW
26.862	27.022	ROUTE 89	844.8	1056	1689.6	SB PASSING ZONE
27.022	27.185	ROUTE 89	860.64	1075.8	1721.28	NB PASSING ZONE
27.185	27.743	ROUTE 89	2946.24	5892.48	5892.48	DOUBLE YELLOW
27.743	27.873	ROUTE 89	686.4	858	1372.8	SB PASSING ZONE
27.873	28.063	ROUTE 89	1003.2	250.8	2006.4	INT PASSING
28.063	28.115	ROUTE 89	274.56	549.12	549	DOUBLE YELLOW
28.115	28.148	ROUTE 89	174.24	312.5	530	ROUTE 89 & E INTERSECTION
28.148	28.181	ROUTE 89	174.24	217.8	348.48	SB PASSING ZONE
28.181	28.355	ROUTE 89	918.72	229.68	1837.44	INT PASSING
28.355	28.545	ROUTE 89	1003.2	1254	2006.4	NB PASSING ZONE
28.545	28.681	ROUTE 89	718.08	1436.16	1436.16	DOUBLE YELLOW
28.681	28.791	ROUTE 89	580.8	726	1161.6	SB PASSING ZONE
28.791	28.819	ROUTE 89	147.84	295.68	295.68	DOUBLE YELLOW
28.819	28.979	ROUTE 89	844.8	1056	1689.6	NB PASSING ZONE
28.979	30.319	ROUTE 89	7075.2	14150.4	14150.4	DOUBLE YELLOW
30.319	30.414	ROUTE 89	501.6	627	1003.2	NB PASSING ZONE
30.414	31.468	ROUTE 89	5565.12	11130.24	11130.24	DOUBLE YELLOW
31.468	31.645	ROUTE 89	934.56	1168.2	1869.12	SB PASSING ZONE
31.645	31.762	ROUTE 89	617.76	154.44	1235.52	INT PASSING
31.762	31.918	ROUTE 89	823.68	1029.6	1647.36	NB PASSING ZONE
31.918	32.037	ROUTE 89	628.32	785.4	1256.64	SB PASSING ZONE
32.037	32.075	ROUTE 89	200.64	401.28	401.28	DOUBLE YELLOW
32.075	32.193	ROUTE 89	623.04	778.8	1246.08	NB PASSING ZONE
32.193	32.437	ROUTE 89	1288.32	2576.64	2576.64	DOUBLE YELLOW
32.437	32.572	ROUTE 89	712.8	891	1425.6	SB PASSING ZONE
32.572	32.655	ROUTE 89	438.24	109.56	876.48	INT PASSING
32.655	32.75	ROUTE 89	501.6	627	1003.2	NB PASSING ZONE
32.75	32.868	ROUTE 89	623.04	778.8	1246.08	SB PASSING ZONE
32.868	33.017	ROUTE 89	786.72	983.4	1573.44	NB PASSING ZONE
33.017	33.636	ROUTE 89	3268.32	6536.64	6536.64	DOUBLE YELLOW
33.636	33.736	ROUTE 89	528	660	1056	SB PASSING ZONE
33.736	34.335	ROUTE 89	3162.72	6325.44	6325.44	DOUBLE YELLOW
34.335	34.518	ROUTE 89	966.24	1207.8	1932.48	SB PASSING ZONE
34.518	34.653	ROUTE 89	712.8	891	1425.6	NB PASSING ZONE
34.653	36.382	ROUTE 89	9129.12	18258.24	18258.24	DOUBLE YELLOW
36.382	36.485	ROUTE 89	543.84	679.8	1087.68	SB PASSING ZONE
36.485	38.072	ROUTE 89	8379.36	16758.72	16758.72	DOUBLE YELLOW
38.072	38.332	ROUTE 89	1372.8	2745.6		DOUBLE YELLOW ONLY
38.332	38.438	ROUTE 89	559.68	699.6		SB PASSING ZONE ONLY
38.438	38.536	ROUTE 89	517.44	129.36		INT PASSING ONLY
38.536	38.558	ROUTE 89	116.16	232.32		DOUBLE YELLOW ONLY
38.558	38.567	ROUTE 89	47.52			ROUTE M INTERSECTION
38.567	38.588	ROUTE 89	110.88	221.76		DOUBLE YELLOW ONLY
38.588	38.705	ROUTE 89	617.76	772.2		NB PASSING ZONE ONLY
38.705	38.735	ROUTE 89	158.4	316.8		DOUBLE YELLOW ONLY
						ALL PAVEMENT MARKING
			TOTAL	164,470	175,192	TO MATCH EXISTING. LOCATE
			USE	164,470	175,192	BEFORE OVERLAY WORK.

	MGS GUARDRAIL									
				MGS GUARDRAIL						
			8' POSTS	CRASHWORTHY	SHAPING SLOPES					
			GUARDRA I L	END TERMINAL	CLASS III					
LOG MILE	LOG MILE	LOCATION	LF	EA	100 FT	REMARKS				
27.526	27.682	MO 89 - LT	725.0	2	1.50					
27.559	27.578	MO 89 - RT		2	1.50					
27.592	27.661	MO 89 - RT	262.5	2	1.50					
28.520	28.681	MO 89 - LT	750.0	2	1.50					
28.701	28.774	MO 89 - LT	287.5	2	1.50					
28.866	28.942	MO 89 - RT	300.0	2	1.50					
						NOTE:				
		TOTAL	2325.0	12	9.00	SHAPING SLOPES CLASS III QUANTIFIED FOR				
		USE	2325	12	9	CRASHWORTHY END TERMINALS ONLY				



SUMMARY OF QUANTITIES
SHEET 3 OF 4

					FFFCTIVE . 07 01 2024
TOTAL OTY TOTALS I	CNI	II I I I OTY	TOTALICIONI	1	EFFECTIVE: 07-01-2024
			TOTAL SIGN		
SIZE AREA QTY AREA RELOCRELOC NU	JM .	SIZE AREA QTY TOTAL RELOC			
SIGN IN. SQ. FT EACH SQ. FT EACH SQ. FT		SIGN IN SQ.FT EACH SQ.FT EACH	SQ.FT.	ITEM TO)TAL
WARNING SIGNS	DESCRIPTION	GUIDE SIGNS	DESCRIPTION	NUMBER Q	TY DESCRIPTION
WO1-1L 48X48 16.00	TURN (SYMBOL LEFT)	E05-1 36X48 12.00	GORE EXIT	6122008	IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
WO1-1R 48X48 16.00	TURN (SYMBOL RIGHT)	E05-2 48X36 12.00	EXIT OPEN	6122009	IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
WO1-2L 48X48 16.00	CURVE (SYMBOL LEFT)	E05-2a 48X36 12.00	EXIT CLOSED	6122010	IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
WO1-2R 48X48 16.00	CURVE (SYMBOL RIGHT)	GO20-1 60X24 10.00 2 20	1 ROAD WORK NEXT 17 MILES	6122012	IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
WO1-3L 48X48 16.00	REVERSE TURN (SYMBOL LEFT)	GO20-2 48X24 8.00 2 16	26 END ROAD WORK	6122014	IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
WO1-3R 48X48 16.00	REVERSE TURN (SYMBOL RIGHT)	GO20-4 36X18 4.50 1 4.5	53 PILOT CAR FOLLOW ME	6122017	IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
WO1-4L 48X48 16.00	REVERSE CURVE (SYMBOL LEFT)	GO20-4a 42X30 8.75 2 17.5	58 PILOT CAR IN USE WAIT & FOLLOW	6122019	IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
WO1-4R 48X48 16.00	REVERSE CURVE (SYMBOL RIGHT)	GO20-4a 18X12 1.50 12 18	58 PILOT CAR IN USE WAIT & FOLLOW	6122020	REPLACEMENT SAND BARREL
WO1-4bL 48X48 16.00	DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5aP 36X24 6.00	WORK ZONE (PLAQUE)	6122030	IMPACT ATTENUATOR (RELOCATION)
WO1-4bR 48X48 16.00	DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-8a 24X18 3.00	END DETOUR	6123001	TRUCK MOUNTED ATTENUATOR (TMA)
WO1-4cL 48X48 16.00	TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L 48X36 12.00	DETOUR (LEFT)	6161008	ADVANCED WARNING RAIL SYSTEM
WO1-4cR 48X48 16.00	TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-9R 48X36 12.00	DETOUR (RIGHT)	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)
WO1-6a 72X36 18.00	HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L 48X18 6.00	DETOUR ARROW (LEFT)	6161014	SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
		MO4-10L 48X18 6.00	DETOUR ARROW (LEFT)		
	DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	REGULATORY SIG		6161025 1	.50 CHANNELIZER (TRIM LINE)
	DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)				TYPE III MOVEABLE BARRICADE
WO1-8 18X24 3.00	CHEVRON (SYMBOL)	R1-1 48X48 13.25	STOP	6161033	DIRECTION INDICATOR BARRICADE
WO1-8a 30X36 7.50	CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1 - 2 48TRI 6 93	YIELD	6161040	FLASHING ARROW PANEL
WO3 - 1	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	SIGNAL AHEAD (SYMBOL)	R2-1 36X48 12.00	SPEED LIMIT XX	6161070	TUBULAR MARKER
WO3-4 48X48 16.00	BE PREPARED TO STOP	R3-1 48X48 16.00	NO RIGHT TURN (SYMBOL)	6161095	RADAR SPEED ADVISORY SYSTEM
WO3-5 48X48 16.00	SPEED LIMIT AHEAD	R3-2 48X48 16.00	NO LEFT TURN (SYMBOL)		CHANGEABLE MESSAGE SIGN,
WO4-1L 48X48 16.00	MERGE (SYMBOL FROM LEFT)	R3-3 36X36 9.00	NO TURNS	6161096	COMMISSION FURNISHED/RETAINED
WO4-1R 48X48 16.00	MERGE (SYMBOL FROM RIGHT)	R3-4 48X48 16.00	NO U-TURN (SYMBOL)		2 CHANGEABLE MESSAGE SIGN W/O COMM.
WO4-1aL 48X48 16.00	MERGE (LEFT)	R3-7L 30X30 6.25	LEFT LANE MUST TURN LEFT	6161098A	INTERFACE - CONTRACTOR FURNISHED/RETAINED
WO4-1aR 48X48 16.00	MERGE (RIGHT)	R3-7R 30X30 6.25	RIGHT LANE MUST TURN RIGHT		CHANGEABLE MESSAGE SIGN WITH COMM.
WO5-1 48X48 16.00	ROAD/BRIDGE/RAMP NARROWS	R4-1 36X48 12.00	DO NOT PASS	6161099	INTERFACE - CONTRACTOR FURNISHED/RETAINED
WO5-3 48X48 16.00	ONE LANE BRIDGE	R4-2 36X48 12.00	PASS WITH CARE	6162000A	WORK ZONE TRAFFIC SIGNAL SYSTEM
WO5-5 48X48 16.00	NARROW LANES	R4-7a 36X48 12.00	KEEP RIGHT (HORIZONTAL ARROW)	6162002	TEMPORARY LONG-TERM RUMBLE STRIPS
WO6-1 48X48 16.00	DIVIDED HIGHWAY (SYMBOL)	R4-8a 36X48 12.00	KEEP LEFT (HORIZONTAL ARROW)		TEMPORARY TRAFFIC BARRIER
WO6-2 48X48 16.00	DIVIDED HIGHWAY END (SYMBOL)	R5-1 30X30 6.25	DO NOT ENTER	6173600D	CONTRACTOR FURNISHED/RETAINED
WO6-3 48X48 16.00	TWO WAY TRAFFIC (SYMBOL)	R5-1a 36X24 6.00	WRONG WAY	017,50005	TEMPORARY TRAFFIC BARRIER
WO7-3a 30X24 5.00	NEXT XX MILES (PLAQUE)	R6-1L 54X18 6.75	ONE WAY ARROW (LEFT)	6173602B	CONTRACTOR FURNISHED/COMMISSION RETAINED
WO8-1 48X48 16.00	BUMP	R6-1R 54X18 6.75	ONE WAY ARROW (RIGHT)	6174000A	TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
WO8-2 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		0173010A	TEMPORARY TRAFFIC BARRIER
			ONE WAY (RIGHT)	61760000	
	SOFT SHOULDER	R9-9 24X12 2.00	SIDEWALK CLOSED ALIEAD	6176000B	COMMISSION FURNISHED/RETAINED
WO8-5 48X48 16.00	SLIPPERY WHEN WET (SYMBOL)	- no 111	SIDEWALK CLOSED AHEAD,	C177000D	TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
W08-6 48X48 16.00	TRUCK CROSSING	R9-11L 24X18 3.00	(ARROW LEFT) CROSS HERE	6177000B	COMMISSION FURNISHED/RETAINED
WO8-6c 48X48 16.00	TRUCK ENTRANCE	1	SIDEWALK CLOSED AHEAD,	6208064A	TEMPORARY RAISED PAVEMENT MARKER
WO8-7 36X36 9.00	LOOSE GRAVEL	R9-11R 24X18 3.00	(ARROW RIGHT) CROSS HERE	9029400	TEMPORARY TRAFFIC SIGNALS
WO8-7a 36X36 9.00	FRESH OIL / LOOSE GRAVEL	R10-6 24X36 6.00	STOP HERE ON RED (45^ ARROW)	9029401	TEMPORARY TRAFFIC SIGNALS AND LIGHTING
WO8-9 48X48 16.00	LOW SHOULDER	R11-2 48X30 10.00	ROAD CLOSED		
	6 UNEVEN LANES	 	ROAD CLOSED XX MILES AHEAD		
	5 NO CENTER LINE	R11-3a 60X30 12.50	LOCAL TRAFFIC ONLY		
WO8-15 48X48 16.00	GROOVED PAVEMENT	R11-4 60X30 12.50	ROAD CLOSED TO THRU TRAFFIC		
WO8-15P 30X24 5.00	MOTORCYCLE (PLAQUE)	CONST-3A 60X48 20.00	FINE SIGN		
WO8-17L 48X48 16.00	SHOULDER DROP-OFF (SYMBOL LEFT)	CONST-3X 56X12 4.67	SPEEDING/PASSING (PLATE)		
WO8-17R 48X48 16.00	SHOULDER DROP-OFF (SYMBOL RIGHT)	MISCELLANEOUS			
WO8-17P 30X24 5.00	SHOULDER DROP-OFF (PLAQUE)	CONST-5 48X36 12.00	POINT OF PRESENCE		
W10-1 42RND. 9.62	RAILROAD CROSSING	CONST-5 96X48 32.00	POINT OF PRESENCE		
WO12-1 24X24 4.00	DOUBLE DOWN ARROW (SYMBOL)	CONST-8 48X36 12.00 2 24	59 WORK ZONE NO PHONE ZONE		
WO12-2 48X48 16.00	LOW CLEARANCE (SYMBOL)				
W012-2x 24X18 3.00	LOW CLEARANCE (PLAQUE)				
WO12-2a 84X24 14.00	OVERHEAD LOW CLEARANCE (FEET AND INCHES)				
WO12-4 120X60 50.00	LOW CLEARANCE XX FT XX IN XX MILES AHEAD				
WO12-5 120X60 50.00	WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD				
WO13-1 30X30 6.25	ADVISORY SPEED (PLAQUE)				
WO16-2 30X24 5.00	XXX FEET (PLAQUE)				
WO16-3 30X24 5.00	X MILE (PLAQUE)				
	2 ROAD/BRIDGE/RAMP WORK AHEAD	1 + + + + + + + + + + + + + + + + + + +			
WO20-2 48X48 16.00	DETOUR AHEAD	1 + + + + + + + + + + + + + + + + + + +			
WO20-3 48X48 16.00	ROAD CLOSED AHEAD	616-10,05 TOTAL			
	7 ONE LANE ROAD AHEAD	CONSTRUCTION SIGNS 1741			
W020-4 48X48 16.00 18 288 W020-5 48X48 16.00	RIGHT/CENTER/LEFT LANE CLOSED AHEAD		TOTAL		
WO20-5a 48X48 16.00	2 RIGHT/CENTER/LEFT LANE CLOSED AHEAD	RELOCATED SIGNS	0		
W020-6a 48X48 16.00	RIGHT/CENTER/LEFT LANE CLOSED	4			
	8 FLAGGER (SYMBOL)	4			
WO21-2 36X36 9.00	FRESH OIL	4			
WO21-5 48X48 16.00	SHOULDER WORK / SHOULDER WORK AHEAD	4			SUMMARY OF QUANTITIES
WO22-1 48X48 16.00	BLASTING ZONE AHEAD				20

BLASTING ZONE AHEAD

WET PAINT (ARROW PIVOTS)

END BLASTING ZONE

WO22-1 48X48 16.00

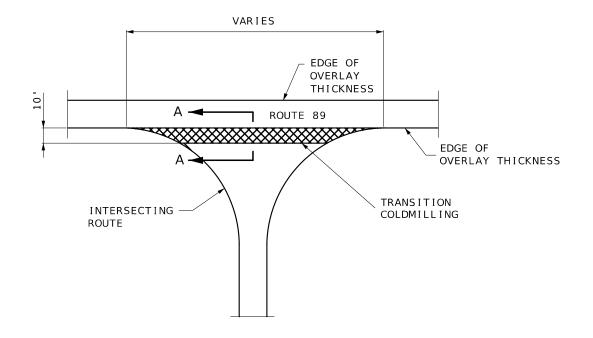
WO22-2 42X36 10.50 WO22-3 42X36 10.50

GO22-1 21X15 2.19 4 8.76

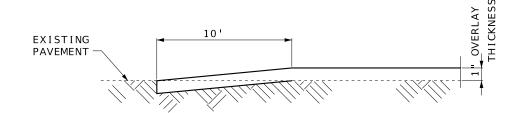
TURN OFF 2-WAY RADIO AND PHONE

GREGORY G LEARY NUMBER PE-026654 ORIO6/2025 3:30:44 PM GREGORY G. LEARY - CIVIL MO-PE-026654 DATE PREPARED 8/5/2025 89 STATE MO DISTRICT SHEET NO. COUNTY
OSAGE / MARIES
JOB NO.
JCD0150
CONTRACT ID. PROJECT NO.

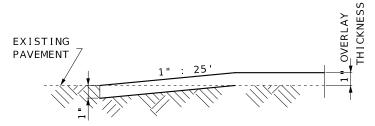
SUMMARY OF QUANTITIES SHEET 4 OF 4



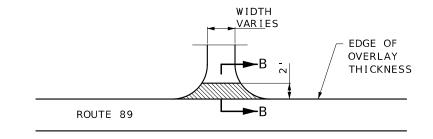
TYPICAL STATE ROUTE JUNCTION

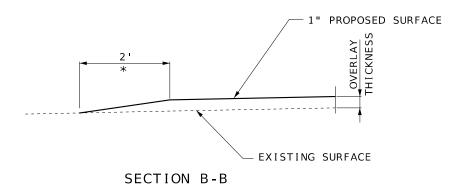


SECTION A-A
TYPICAL STATE ROUTE JUNCTION
(COLDMILLED TRANSITION)

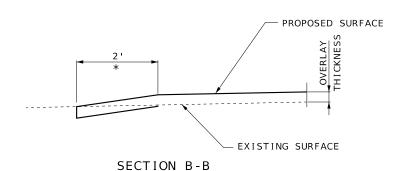


TRAVELWAY DEPTH TRANSITIONS
BEGINNING & END OF PROJECT
AND AT RAILROAD/BRIDGE
EXCEPTIONS

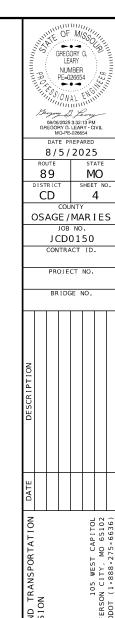




TYPICAL GRAVEL ENTRANCE
(FIELD, PRIVATE OR COUNTY ROAD)
* TAPER AT 1:1 FOR FIELD ENTRANCE



TYPICAL CONCRETE/BITUMINOUS ENTRANCE
MODIFIED COLDMILL DETAIL
(PRIVATE OR COUNTY ROAD)
* TAPER AT 1:1 FOR FIELD ENTRANCE

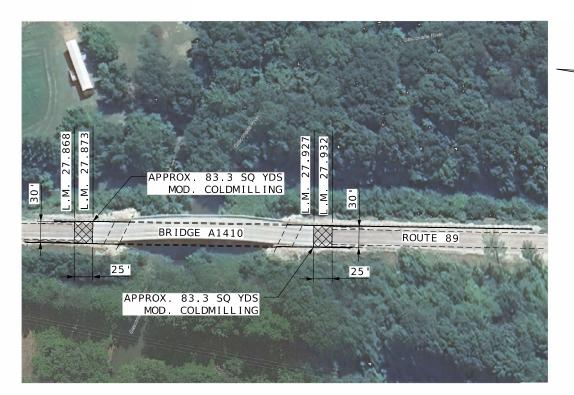






ROUTE 50 AND ROUTE 89 INTERSECTION BEGIN PROJECT - LOG MILE 21.499

NOTE: DND EXISTING GUARDRAIL & CONCRETE BRIDGE APPROACH SLAB/PAVEMENT



ROUTE 89 - BRIDGE A1410 LOG MILE 27.873 TO LOG MILE 27.927

ATE DESCRIPTION

8/5/2025

OSAGE/MARIES

JCD0150 CONTRACT ID.

PROJECT NO.

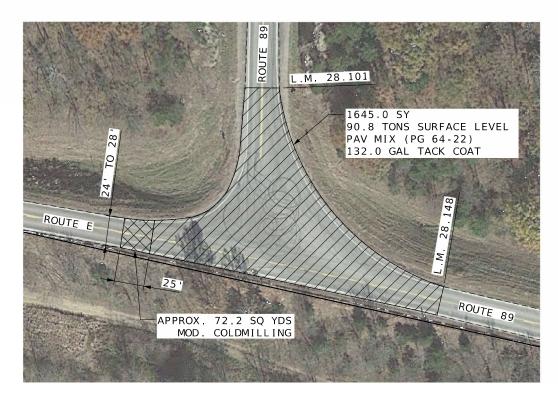
MO

5

89

CD

NOTE: DND EXISTING GUARDRAIL



ROUTE 89 AND ROUTE E INTERSECTION LOG MILE 28.101 TO LOG MILE 28.148

NOTE: DND EXISTING GUARDRAIL

NOT TO SCALE



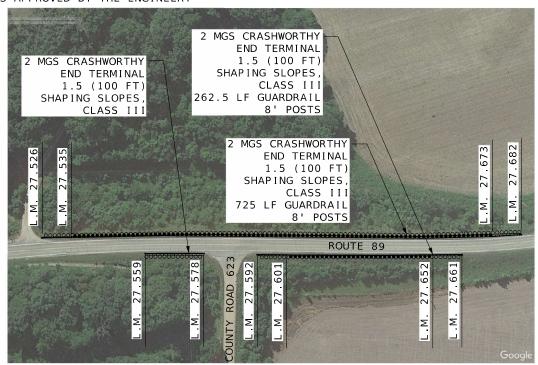
ROUTE 89 - BRIDGE A1411 LOG MILE 28.275 TO LOG MILE 28.425

SPECIAL SHEET INTERSECTION PAVING SHEET 2 OF 5



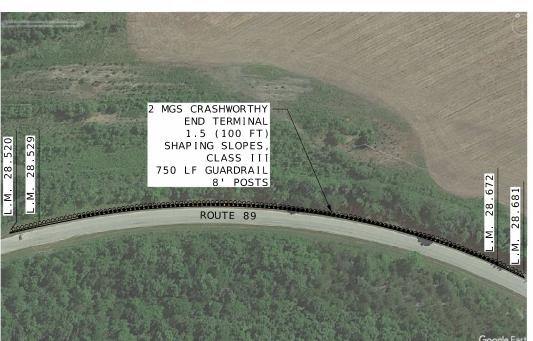
GENERAL NOTE:

ALL PROPOSED MGS GUARDRAIL SHALL BE INSTALLED 4' OFFSET FROM EOP, OR AS APPROVED BY THE ENGINEER.



ROUTE 89 & COUNTY ROAD 623 - GUARDRAIL LOG MILE 27.526 TO LOG MILE 27.682

REMOVE 820 LF, 100 LF, AND 365 LF OF EXIST GUARDRAIL



ROUTE 89 - GUARDRAIL LOG MILE 28.520 TO LOG MILE 28.681

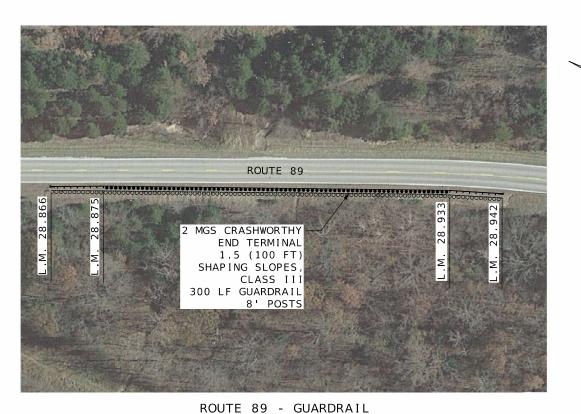
NOTE: REMOVE 765 LF OF EXIST GUARDRAIL

NOT TO SCALE



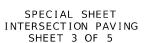
ROUTE 89 - GUARDRAIL LOG MILE 28.701 TO LOG MILE 28.774

REMOVE 380 LF OF EXIST GUARDRAIL



LOG MILE 28.866 TO LOG MILE 28.942

REMOVE 385 LF OF EXIST GUARDRAIL

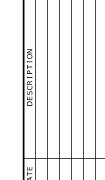




8/5/2025 89 MO SHEET NO CD 6

OSAGE/MARIES JCD0150 CONTRACT ID.

PROJECT NO.



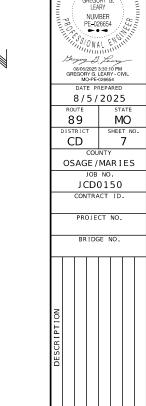




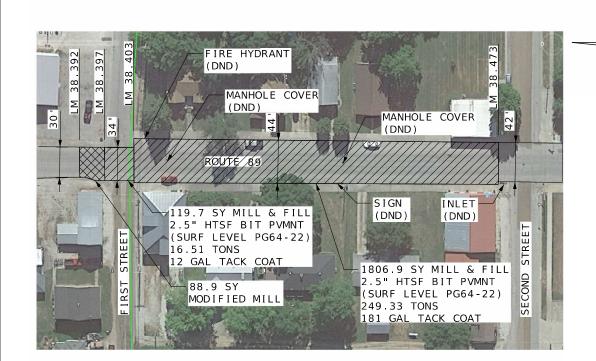
ROUTE 89 AND ROUTE D INTERSECTION LOG MILE 33.999



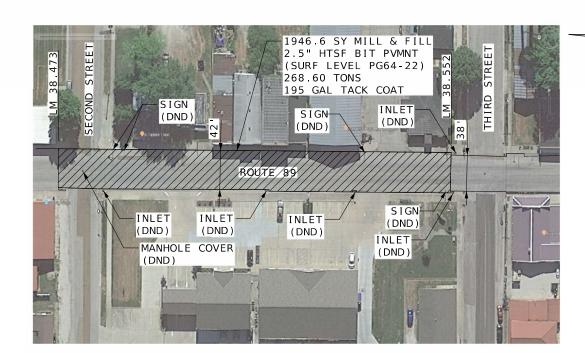
ROUTE 89 AND ROUTE Y INTERSECTION LOG MILE 37.546



NOT TO SCALE

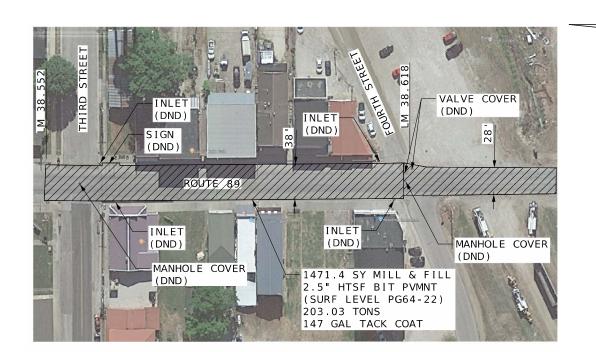


MILL & FILL THROUGH BELLE - FIRST ST TO SECOND ST LOG MILE 38.397 TO LOG MILE 38.473



MILL & FILL THROUGH BELLE - SECOND ST TO THIRD ST LOG MILE 38.473 TO LOG MILE 38.552

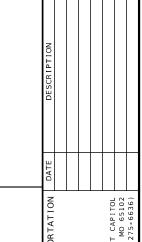
SPECIAL SHEET INTERSECTION PAVING/ BELLE MILL & FILL SHEET 4 OF 5



MILL & FILL THROUGH BELLE - THIRD ST TO FOURTH ST LOG MILE 38.552 TO LOG MILE 38.618



MILL & FILL THROUGH BELLE - FOURTH ST TO END OF PROJECT LOG MILE 38.618 TO LOG MILE 38.735



GREGORY G LEARY NUMBER PE-026654

8/5/2025

OSAGE/MARIES

JOB NO.
JCD0150

PROJECT NO.

BRIDGE NO.

MO

SHEET NO

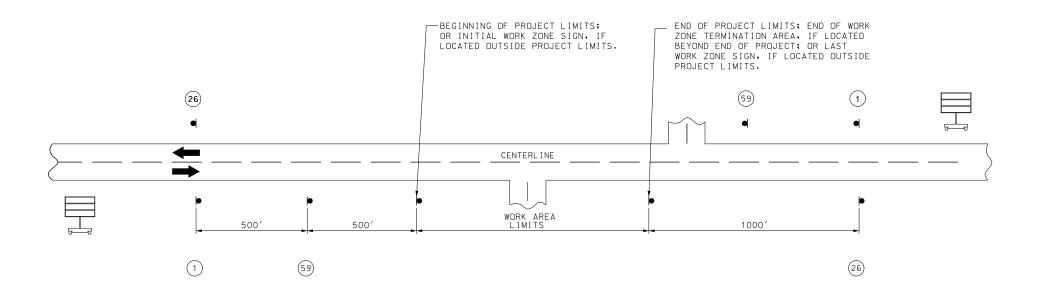
8

89

CD

NOT TO SCALE

SPECIAL SHEET BELLE MILL & FILL SHEET 5 OF 5



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.



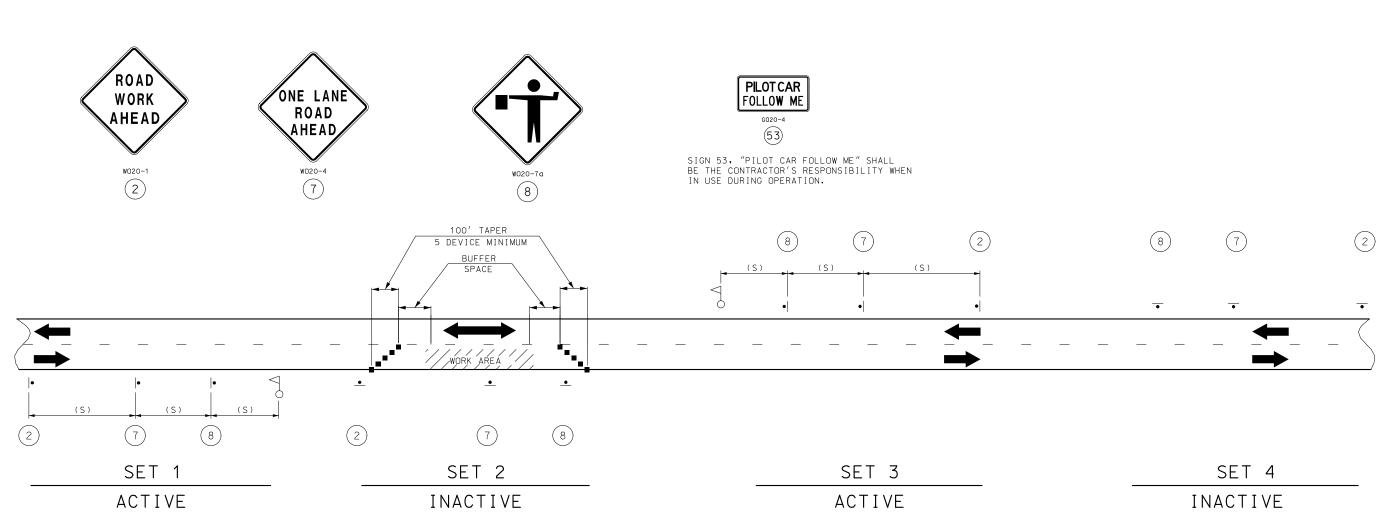
GREGORY G.
LEARY
NUMBER
PE-026654 NUM PE-02665 08.062.025.329.11 PM 08.062.025.329.11 PM GREGORY O. LEARY-CIVIL MO-PE-026654 DATE PREPARED 8/5/2025 89 MO SHEET NO. CD 9 OSAGE/MARIES JOB NO.
JCD0150
CONTRACT ID. PROJECT NO. BRIDGE NO.

TRAFFIC CONTROL SHEET 1 OF 5

END

ROAD WORK

26)



THIS PLAN IS FOR DAYLIGHT FLAGGING OPERATIONS ONLY. WHEN NIGHT WORK IS REQUIRED, OR OTHERWISE ALLOWED BY THE ENGINEER, WORK ZONE LIGHTING SHALL BE PROVIDED IN ACCORDANCE WITH SEC 616.5.2.

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

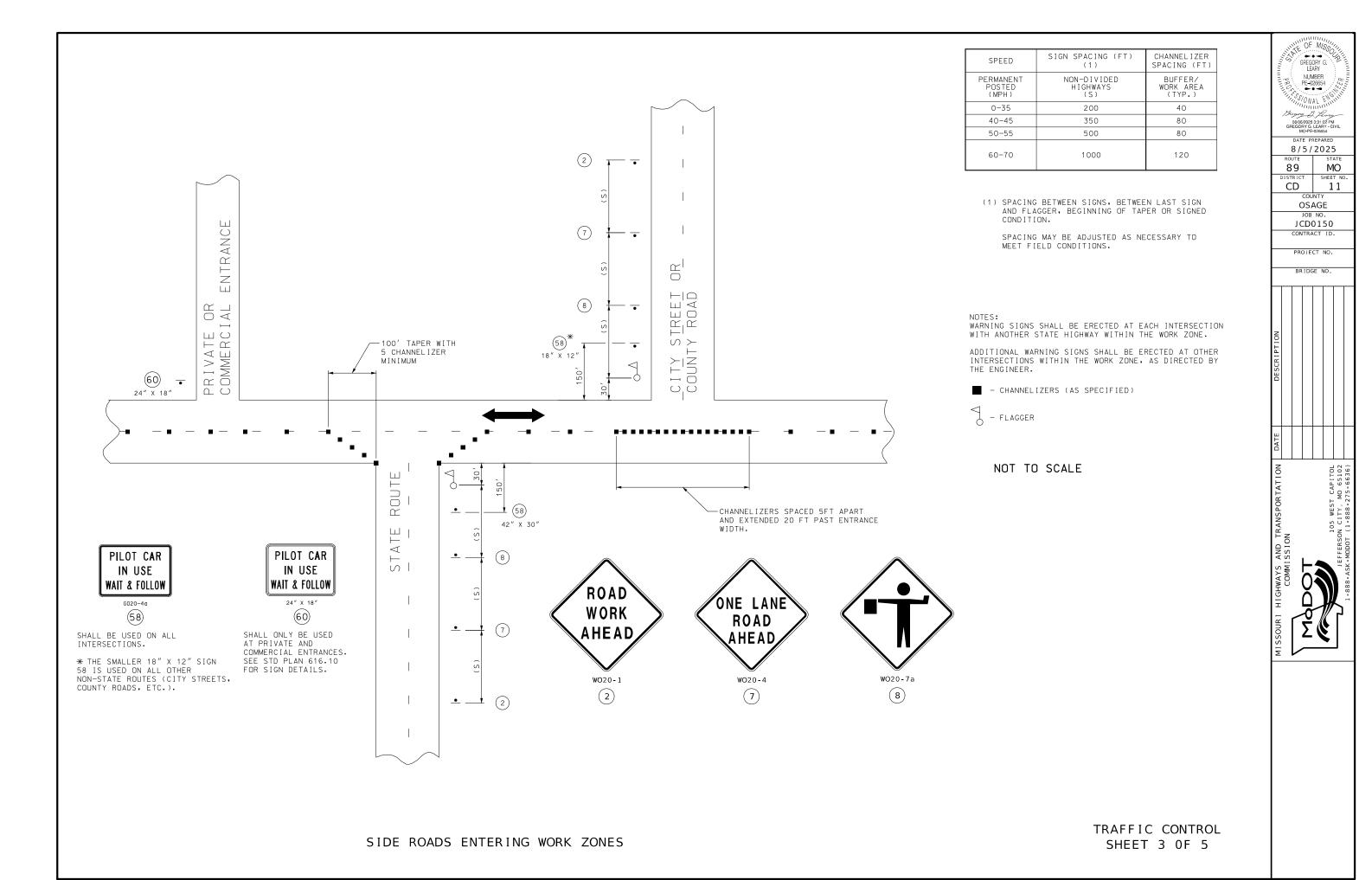
(1) SPACING BETWEEN SIGNS, BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER OR SIGNED CONDITION.

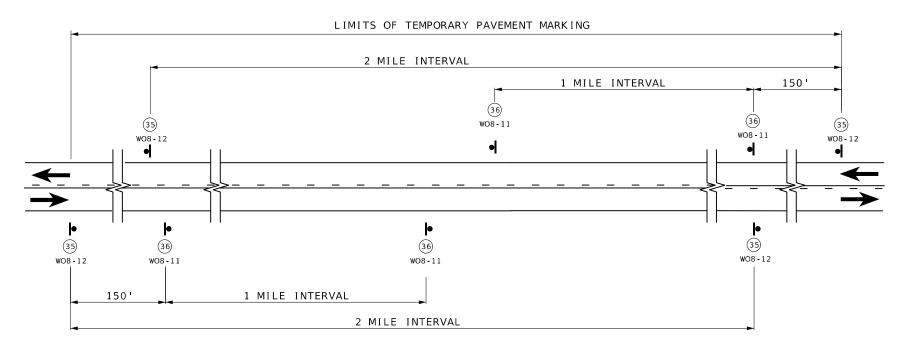
SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

TRAFFIC CONTROL SHEET 2 OF 5

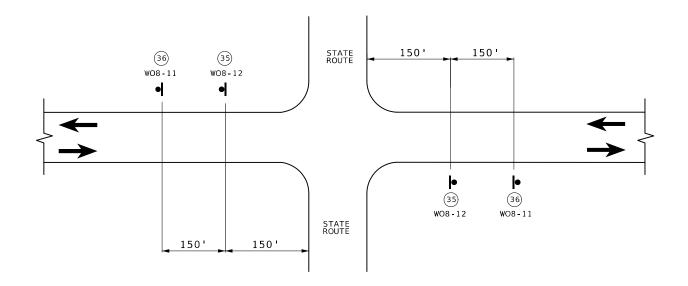
GREGORY G LEARY NUMBER PE-026654 O8/06/2025 3:24:48 PM GREGORY G. LEARY - CIVIL MO-PE-026654 8/5/2025 89 MO SHEET NO CD 10 OSAGE JCD0150 CONTRACT ID. PROJECT NO. BRIDGE NO.







SIGN SPACING AND TEMPORARY STRIPING FOR MAINLINE



SIGN SPACING AT STATE ROUTE INTERSECTIONS SHOWING TEMPORARY STRIPING FOR MAINLINE





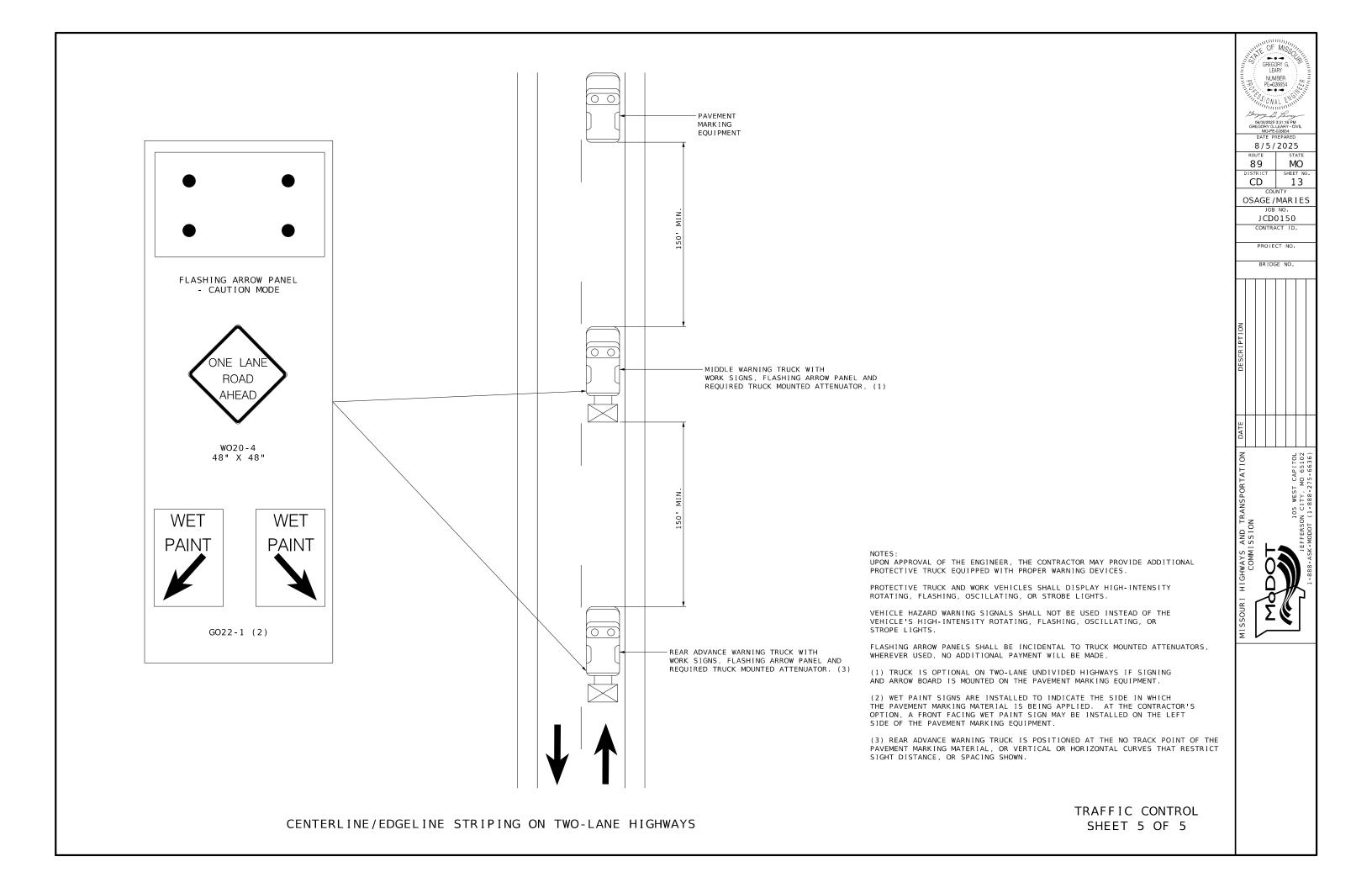
SIGN (35) AND TEMPORARY RAISED PAVEMENT MARKING (SEE STANDARD PLAN 620.10) INSTALLED WHERE CENTERLINE STRIPING HAS BEEN COVERED OR REMOVED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE PERMANENT CENTERLINE PAVEMENT MARKINGS ARE IN PLACE. SIGNS SHALL BE COVERED OR REMOVED WHEN PAVEMENT CENTERLINE MARKING HAS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

GREGORY G. LEARY NUMBER PE-026654 8/5/2025 89 MO CD 12 OSAGE/MARIES JOB NO.
JCD0150 CONTRACT ID. PROJECT NO. BRIDGE NO.

TRAFFIC CONTROL SHEET 4 OF 5



DESIGN DESIGNATION

A.A.D.T. - 2024 = 1,478T = 10.2% V = 55 M.P.H.

FUNCTIONAL CLASSIFICATION - MAJOR COLLECTOR

NO NEW RIGHT OF WAY REQUIRED

CONVENTIONAL SYMBOLS (USED IN PLANS)

(0020 110 12/110	,	
	EXISTING	NEW
BUILDINGS AND STRUCTURES GUARD RAIL GUARD CABLE CONCRETE RIGHT-OF-WAY MARKER STEEL RIGHT-OF-WAY MARKER LOCATION SURVEY MARKER UTILITIES	0000 0000 111 V	••••• ••••
FIBER OPTICS OVERHEAD CABLE TV UNDERGROUND CABLE TV OVERHEAD TELEPHONE UNDERGROUND TELEPHONE OVERHEAD POWER UNDERGROUND POWER SANITARY SEWER STORM SEWER GAS WATER	- FO OTV UTV - OT UT OT UT OE UE S SS G - W - SAN	
MANHOLE	HYD)
FIRE HYDRANT	w _v C	ĵ
WATER VALVE	w _M)
WATER METER	<u></u>)
DROP INLET	, L	
DITCH BLOCK	=	⊨
GROUND MOUNTED SIGN	SIGN	-
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL FENCE CHAIN LINK WOVEN WIRE GATE POST	PED V	<u>'</u> —
BENCHMARK	× ⊗)

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY OSAGE COUNTY



LOCATION OF OSAGE COUNTY

APPARENT LENGTH 95,589.12 FEET

RAILROAD EXCEPTION LM 0.136 - LM 0.142 31.68 FEET

LENGIH	OF	PROJECT	-	RIE	89

BEGINNING OF PROJECT	L.M.	0.014
END OF PROJECT	L.M.	18.118

EQUATIONS AND EXCEPTIONS:

BRIDGE K0214 EXCEPTION LM 12.024-LM 12.039 79.20 FEET

110.88 FEET TOTAL CORRECTIONS NET LENGTH OF PROJECT 95,478.24 FEET STATE LENGTH 18.083 MILES

0.0 ACRES

FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES

			EOCATION
BE	GIN PROJECT		
	.M. 0.014		
			L0194
		CHAMOIS 6 5 4	3 2 B 1
FILL	L.M. 0.136	A5364 B 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	T T T T T T T T T T T T T T T T T T T
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-	RAILROAD EXCEPTION	MIRESTA	
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	L.M. 0.142	19	23 24
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<u> </u>	M. 0.348	DEER (28 28	27 ₹ 26
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TS - ROU GUARDRAI	L.M. 12.024	16 43 13	
N MII	S	19 A1948 DAUYSTOWN 22 24 MIN 23 24 MIN 24 25 24 MIN 25 25 24 MIN 25 25 25 25 25 25 25 25 25 25 25 25 25	0580026
<u> </u>	DGE	A2340 22 23 24 20/ 21 JCROOKA K0213 19	22 23 24
PROJECT LIMITS RESURFACING & GU	BRIDGE EXCEPTION K0214	21 8 25 30 29 28 27 26 25 30 29 28 27 26 25 30 29	
OJE RFA	₩ ₩	27 26 25 30 29 28 27 26 325 30 620012 3 28 28	27 26 25
SUF	L.M. 12.039	31 32 34 35 31 32	34
RE		33 34 35 36 37 37 33 34 35 31 32 33	36_I 36
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		28 27	Cooper Hill CA
		31 /32 /32 31 32 31	35 ts W0402
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		13 1 20 1 6 1 2 1 6 1 2 1 4 N	IN IN HOLL
			NOT TO SCALE
	ND PROJECT .M. 18.118		NUT TO SCALE
L	10.110		

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.

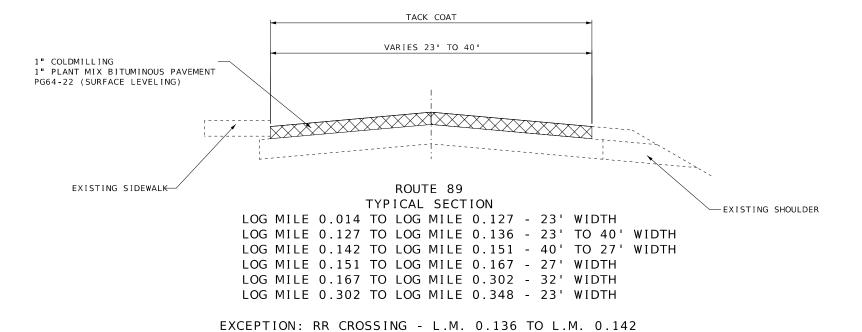
INDEX OF SHEETS

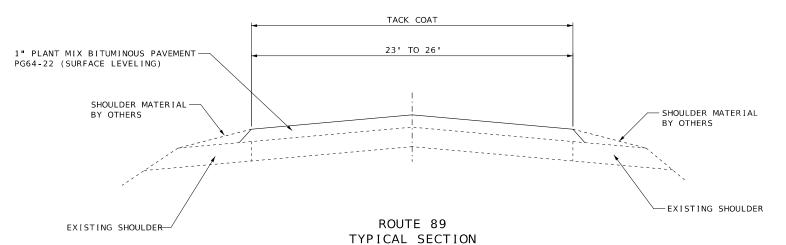
DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (1 SHEET)	2
QUANTITIES (QU) (3 SHEETS)	3
SPECIAL SHEETS (SS)	4 - 6
TRAFFIC CONTROL SHEETS (TC)	7 - 11

GREGORY G.	
DATE P	REPARED
- , - ,	2025
ROUTE	STATE
89	MO
89 DISTRICT CD	MO SHEET NO.
89 DISTRICT CD COU	MO SHEET NO. 1
89 DISTRICT CD COU	MO SHEET NO. 1 NTY AGE
89 DISTRICT CD COU OSA	MO SHEET NO. 1 NTY AGE NO.
89 DISTRICT CD COU OSA JOB JCD0	MO SHEET NO. 1 NTY AGE NO. 0151
89 DISTRICT CD COU OSA JOB JCD0	MO SHEET NO. 1 NTY AGE NO.

WILLIAM OF WILLIAM







LOG MILE 0.348 TO LOG MILE 12.024 - 23' WIDTH LOG MILE 12.039 TO LOG MILE 18.096 - 23' WIDTH LOG MILE 18.096 TO LOG MILE 18.118 - 23' TO 26' WIDTH

EXCEPTION: BRIDGE K0214 - L.M. 12.024 TO L.M. 12.039

SURFACE PLACEMENT SHALL BE ONE PASS PER LANE

TACK COAT (EXIST. ASPH.) TACK COAT (COLDMILLED ASPH.)

BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING) 1.987 TON/CY 0.08 GAL/SY 0.10 GAL/SY

NUMBER PE-026654 8/5/2025 89 MO CD 2 OSAGE JCD0151 CONTRACT ID. PROJECT NO. BRIDGE NO.

TYPICAL SECTION SHEET 1 OF 1

		1	" BITUN	41 NOUS	PAVEME	NT MIX	PG64-22 (SU	RFACE LEVEL	ING)
							1" SURFACE		
						AVERAGE	LEVEL	TACK	
				LENGTH	WIDTH	AREA	1.987 TONS/CY	COAT	
LOG MILE	LOG MILE	LOCATION	MILES	FT	FT	SF	TONS	GALLONS	REMARKS
0.014	0.127	ROUTE 89	0.113	596.64	23	13722.72	84.15	152.0	BEGIN PROJECT - MILL & FILL
0.127	0.136	ROUTE 89	0.009	48	VAR	1555	9.54	17.3	NORTH RR APPROACH - SPECIAL SHEET 2
0.136	0.142	ROUTE 89	0.006	31.68					RAILROAD EXCEPTION
0.142	0.151	ROUTE 89	0.009	45	VAR	1372	8.41	15.2	SOUTH RR APPROACH - SPECIAL SHEET 2
0.151	0.167	ROUTE 89	0.016	84.48	27	2280.96	13.99	25.3	MILL & FILL
0.167	0.302	ROUTE 89	0.135	712.8	32	22809.6	139.88	253.4	MILL & FILL
0.302	0.348	ROUTE 89	0.046	242.88	23	5586.24	34.26	62.1	MILL & FILL
0.348	12.024	ROUTE 89	11.676	61649.28	23		8695.44	12604.0	
12.024	12.039	ROUTE 89	0.015	79.2					BRIDGE K0214 EXCEPTION
12.039	18.096	ROUTE 89	6.057	31980.96	23		4510.81	6538.0	
18.096	18.118	ROUTE 89	0.022	116.16	24.5		17.45	25.0	WIDTH VAR. 23' TO 26'
3.360		ROUTE 89		10	VAR .	1066	6.54	12.0	ROUTE FF INTERSECTION
11.460		ROUTE 89		10	VAR .	1265	7.76	14.0	ROUTE HH INTERSECTION
13.657		ROUTE 89		10	VAR.	2263	13.88	25.0	ROUTE J INTERSECTION
							83.6	150.0	2' WING OUT - PRIVATE/CITY/COUNTY ENTRANCE
							3378.4825	<u> </u>	25% IRREGULARITIES
						TOTAL	17004.19	19893.30	
						USE	17004.2	19893	

MOB	ΙL	. 1.2	ZATIO	DN
TOTAL	=	1	LUMP	SU

	COLDMILI	ING BITUMINOUS	PAVEN	MENT FO	R REMO	VAL OF SURFA	CING (3" THICK OR LESS)
						1 IN.	
				LENGTH	WIDTH	COLDMILL	
LOG MILE	LOG MILE	LOCATION	MILES	FT	FT	SY	REMARKS
0.014	0.127	ROUTE 89	0.113	596.64	23	1524.7	1" MILL & FILL
0.127	0.136	ROUTE 89	0.009	48	VAR	172.8	23' TO 40' WIDTH - 1" MILL & FILL
0.136	0.142	ROUTE 89	0.006	31.68			RAILROAD EXCEPTION
0.142	0.151	ROUTE 89	0.009	47.52	VAR	152.4	40' TO 27' WIDTH - 1" MILL & FILL
0.151	0.167	ROUTE 89	0.016	84.48	27	253.4	1" MILL & FILL
0.167	0.302	ROUTE 89	0.135	712.8	32	2534.4	1" MILL & FILL
0.302	0.348	ROUTE 89	0.046	242.88	23	620.7	1" MILL & FILL
					TOTAL	5258.40	
					USE	5258	

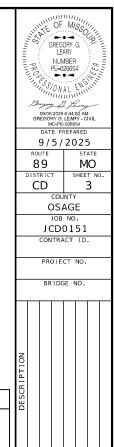
		MOD I	FIED C	OLDMIL	LING (D	EPTH TRANSI	TIONS)
			LENGTH	WIDTH	AVERAGE AREA	MOD I F I ED COLDM I L L I NG	
	LOG MILE	LOCATION	FT	FT	SF	SY	REMARKS
0.348	0.353	ROUTE 89	25	23	575	63.89	SOUTH OF 3RD STREET
3.360		ROUTE 89	10	VAR.	1066	118.44	ROUTE FF INTERSECTION
11.460		ROUTE 89	10	VAR.	1265	140.56	ROUTE HH INTERSECTION
12.019	12.024	ROUTE 89	25	23	575	63.89	BRIDGE K0214
12.039	12.044	ROUTE 89	25	23	575	63.89	BRIDGE K0214
13.657		ROUTE 89	10	VAR.	2263	251.44	ROUTE J INTERSECTION
18.113	18.118	ROUTE 89	25	26	650	72.22	END OF OVERLAY
0.445		ROUTE 89 - LT	2	30	60	6.67	S MAPLE ST - ASPHALT
0.445		ROUTE 89 - RT	2	50	100	11.11	S WALNUT ST - ASPHALT
0.496		ROUTE 89 - RT	2	60	120	13.33	PRIVATE - CONCRETE
0.624		ROUTE 89 - LT	2	72	144	16.00	PRIVATE - ASPHALT
0.764		ROUTE 89 - LT	2	74	148	16.44	PRIVATE - ASPHALT
1.611		ROUTE 89 - LT	2	20	40	4.44	PRIVATE - CONCRETE
12.26		ROUTE 89 - RT	2	36	72	8.00	PRIVATE - CONCRETE
12.66		ROUTE 89 - RT	2	40	80	8.89	PRIVATE - ASPHALT
15.23		ROUTE 89 - RT	2	50	100	11.11	PRIVATE - ASPHALT
15.758		ROUTE 89 - RT	2	50	100	11.11	PRIVATE - CONCRETE
16.035		ROUTE 89 - RT	2	26	52	5.78	PRIVATE - CONCRETE
16.085		ROUTE 89 - LT	2	40	80	8.89	PRIVATE - ASPHALT
16.226		ROUTE 89 - RT	2	24	48	5.33	PRIVATE - CONCRETE
18.065		ROUTE 89 - RT	2	35	70	7.78	PRIVATE - CONCRETE
					TOTAL	909.21	
					USE	909	

	PATCHING ROUTES FOR DAMAGED PAVEMENT									
			REMOVAL OF	REPLACEMENT OF						
			DAMAGED PAVEMENT	DAMAGED PAVEMENT						
LOG MILE	LOG MILE	LOCATION	SY	TON	REMARKS					
0.012	18.118	ROUTE 89	250.0	41.4						
		TOTAL	250.0	41.4						
		USE	250	41.4						

	Gl	RAVEL (A) OF	R CRUSHEI	O STONE (B)	
			NET	GRAVEL OR	
			LENGTH	CRUSHED STONE	
LOG MILE	LOG MILE	LOCATION	MILES	TONS	REMARKS
0.348	18.118	ROUTE 89	17.770	710.0	
			TOTAL	710.0	
			USE	710	

	AD JUST	ING MANHOLE			
		ADJUSTING			
		MANHOLE			
LOG MILE	LOCATION	EACH	REMARKS		
0.046	ROUTE 89	1	TENNESSEE AVE		
0.131	ROUTE 89	1	RAILROAD AVE		
0.302	ROUTE 89	1	ROUTE K		
	TOTAL	3			
	USE	3			

SUMMARY OF QUANTITIES
SHEET 1 OF 3





				PERMAI	NENT PAVEMENT MARKING			
				CLASS 1 PAVEMENT MARKING PA	AINT (18-MIL, TYPE P BEADS) THERMOPLASTIC	PAVEMENT MARKING	3
			LENGTH	4" YELLOW	4" WHITE	24" WHITE	R/R MARKING	
	LOG MILE	LOCATION	FT	LF	LF	LF	EA	REMARKS
0.012	0.134	ROUTE 89	644.16	1288.32		12	1	DOUBLE YELLOW
0.144	0.169	ROUTE 89	132.00 570.24	264.00 142.56		12	1	DOUBLE YELLOW INT. YELLOW
0.109	0.342	ROUTE 89	343.20	686.40				DOUBLE YELLOW
0.348	1.361	ROUTE 89	5348.64	10697.28	10697.28			DOUBLE YELLOW
1.361	1.462	ROUTE 89	533.28	666.60	1066.56			SB PASSING ZONE
1.462	1.601	ROUTE 89	733.92	917.40	1467.84			NB PASSING ZONE
1.601	3.310	ROUTE 89	9023.52	18047.04	18047.04			DOUBLE YELLOW
3.310	3.422	ROUTE 89	591.36	739.20	1182.72			SB PASSING ZONE
3.422	3.875	ROUTE 89	2391.84	4783.68	4783.68			DOUBLE YELLOW
3.875	3.999 4.050	ROUTE 89	654.72 269.28	818.40 67.32	1309.44 538.56			SB PASSING ZONE INT. YELLOW
4.050	4.160	ROUTE 89	580.80	726.00	1161.60			NB PASSING ZONE
4.160	5.701	ROUTE 89	8136 48	16272.96	16272.96			DOUBLE YELLOW
5.701	5.820	ROUTE 89	628.32	785.40	1256.64			SB PASSING ZONE
5.820	5.858	ROUTE 89	200.64	50.16	401.28			INT. YELLOW
5.858	5.960	ROUTE 89	538.56	673.20	1077.12			NB PASSING ZONE
5.960	6.290	ROUTE 89	1742.40	3484.80	3484.80			DOUBLE YELLOW
6.290	6.420	ROUTE 89	686.40	858.00	1372.80			SB PASSING ZONE
6.420	7.662	ROUTE 89	6557.76	13115.52	13115.52			DOUBLE YELLOW
7.662	7.768	ROUTE 89	559.68	699.60	1119.36			SB PASSING ZONE
7.768	7.923 8.018	ROUTE 89	818.40 501.60	204.60 627.00	1636.80 1003.20			INT. YELLOW NB PASSING ZONE
8.018	8.496	ROUTE 89	2523.84	5047.68	5047.68			DOUBLE YELLOW
8.496	8.591	ROUTE 89	501.60	627.00	1003.20			SB PASSING ZONE
8.591	8.648	ROUTE 89	300.96	75.24	601.92			INT. YELLOW
8.648	8.731	ROUTE 89	438.24	547.80	876.48			NB PASSING ZONE
8.731	8.959	ROUTE 89	1203.84	2407.68	2407.68			DOUBLE YELLOW
8.959	9.096	ROUTE 89	723.36	904.20	1446.72			SB PASSING ZONE
9.096	9.153	ROUTE 89	300.96	75.24	601.92			INT. YELLOW
9.153	9.218	ROUTE 89	343.20	429.00	686.40			NB PASSING ZONE
9.218	9.353 9.493	ROUTE 89	712.80	1425.60 924.00	1425.60 1478.40			DOUBLE YELLOW NB PASSING ZONE
9.493	9.548	ROUTE 89	290.40	580.80	580.80			DOUBLE YELLOW
9.548	9.598	ROUTE 89	264 00	330.00	528.00			SB PASSING ZONE
9.598	9.700	ROUTE 89	538.56	134.64	1077.12			INT. YELLOW
9.700	9.799	ROUTE 89	522.72	653.40	1045.44			NB PASSING ZONE
9.799	10.531	ROUTE 89	3864.96	7729.92	7729.92			DOUBLE YELLOW
10.531	10.660	ROUTE 89	681.12	851.40	1362.24			SB PASSING ZONE
10.660	10.777	ROUTE 89	617.76	772.20	1235.52			NB PASSING ZONE
10.777	10.881	ROUTE 89	549.12	686.40	1098.24			SB PASSING ZONE INT. YELLOW
10.881	10.928	ROUTE 89	248.16 390.72	62.04 488.40	496.32 781.44			NB PASSING ZONE
11.002	11.195	ROUTE 89	1019.04	2038.08	2038.08			DOUBLE YELLOW
11.195	11.324	ROUTE 89	681.12	851.40	1362.24			SB PASSING ZONE
11.324	11.640	ROUTE 89	1668.48	3336.96	3336.96			DOUBLE YELLOW
11.640	11.758	ROUTE 89	623.04	778.80	1246.08			SB PASSING ZONE
11.758	11.849	ROUTE 89	480.48	600.60	960.96			NB PASSING ZONE
11.849	11.939	ROUTE 89	475.20	594.00	950.40			SB PASSING ZONE
11.939	11.989	ROUTE 89	264.00	66.00	528.00			INT. YELLOW
11.989	12.099 12.240	ROUTE 89	580.80 744.48	726.00 1488.96	1161.60 1488.96			NB PASSING ZONE DOUBLE YELLOW
12.099	12.314	ROUTE 89	390.72	488.40	781.44			SB PASSING ZONE
12.314	12.375	ROUTE 89	322.08	80.52	644.16			INT. YELLOW
12.375	12.481	ROUTE 89	559.68	699.60	1119.36			NB PASSING ZONE
12.481	12.798	ROUTE 89	1673.76	3347.52	3347.52			DOUBLE YELLOW
12.798	12.918	ROUTE 89	633.60	792.00	1267.20			SB PASSING ZONE
12.918	13.062	ROUTE 89	760.32	190.08	1520.64			INT. YELLOW
13.062	13.184	ROUTE 89	644.16	805.20	1288.32			NB PASSING ZONE
13.184	13.884	ROUTE 89	3696.00	7392.00	7392.00			DOUBLE YELLOW
13.884 13.983	13.983 14.052	ROUTE 89	522.72 364.32	653.40 91.08	1045.44 728.64			SB PASSING ZONE INT. YELLOW
14.052	14.032	ROUTE 89	607.20	759.00	1214.40			NB PASSING ZONE
14.167	16.451	ROUTE 89	12059.52	24119.04	24119.04			DOUBLE YELLOW
16.451	16.571	ROUTE 89	633.60	792.00	1267.20			SB PASSING ZONE
16.571	16.666	ROUTE 89	501.60	627.00	1003.20			NB PASSING ZONE
16.666	16.832	ROUTE 89	876.48	1752.96	1752.96			DOUBLE YELLOW
16.832	16.933	ROUTE 89	533.28	666.60	1066.56			SB PASSING ZONE
16.933	17.028	ROUTE 89	501.60	627.00	1003.20			NB PASSING ZONE
17.028	18.118	ROUTE 89	5755.20	11510.40	11510.40			DOUBLE YELLOW
			TOTAL	167242.68	187651.20	24	2	ALL PAVEMENT MARKING TO MATCH EXISTING, LOCATE
			USE		187651	24	2	BEFORE OVERLAY WORK
					10,001			1

SHWAYS AND TRANSPORTATION	DATE	DESCRIPTION				F			, ANNIHHIE.	_
COMMISSION							8		OF GE	
						D	UTE 9 RIC	DAT 8 /	08/06/06/06/06/06/06/06/06/06/06/06/06/06/	
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				CT	AG NC 0.1	NTY		REPA	DRY ARY MBEF 2665	
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JEFFERSON CITY, MO 65102				•		3	ATE O T N	5	THE REPORT OF THE PARTY OF THE	
-888-ASK-MODOT (1-888-275-6636)							2		MANUFACE	

SUMMARY OF QUANTITIES
SHEET 2 OF 3

														EFFECTIVE: 07-01-2024
		1	TOTAL QTY TOTAL SIGN	I		ı	1 1			QTY TOTAL SIGN			T	EFFECTIVE: 07-01-2024
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	OTY AREA RELOCIRELOCINUM.			C 1 7 F	اممدرا	ОТУ		· I I I			'	
		ı	1 '				1			RELOC RELOC NUM.		I	'	
SIGN	IN.	SQ.FT	EACH SQ. FT. EACH SQ. FT.		SIGN	IN.				EACH SQ.FT.		ITEM	TOTAL	
			WARNING SIGNS	DESCRIPTION				GUID	DE SIG	NS .	DESCRIPTION	NUMBER	QTY	DESCRIPTION
WO1-1L				TURN (SYMBOL LEFT)	E05-1		12.00				GORE EXIT	6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
WO1 - 1R		16.00		TURN (SYMBOL RIGHT)	E05-2		12.00				EXIT OPEN	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
WO1 - 2L		16.00		CURVE (SYMBOL LEFT)			12.00				EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
WO1 - 2R		16.00		CURVE (SYMBOL RIGHT)			10.00		20		ROAD WORK NEXT 18 MILES	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
WO1 - 3L		16.00		REVERSE TURN (SYMBOL LEFT)			8.00	2	16		END ROAD WORK	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
WO1 - 3R		16.00		REVERSE TURN (SYMBOL RIGHT)	GO20 - 4			1	4.5		PILOT CAR FOLLOW ME	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
WO1 - 4L		16.00		REVERSE CURVE (SYMBOL LEFT)	GO20-4a GO20-4a			1	8.75		PILOT CAR IN USE WAIT & FOLLOW	6122019	+	IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
WO1 - 4R WO1 - 4bL		16.00		REVERSE CURVE (SYMBOL RIGHT)	GO20 - 4a			13	19.5		PILOT CAR IN USE WAIT & FOLLOW WORK ZONE (PLAQUE)	6122020		REPLACEMENT SAND BARREL IMPACT ATTENUATOR (RELOCATION)
WO1 - 4bb				DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT) DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)		24X18					END DETOUR	6122030		TRUCK MOUNTED ATTENUATOR (TMA)
WO1 - 4 c L				TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)		_	12 00				DETOUR (LEFT)	6161008		ADVANCED WARNING RAIL SYSTEM
WO1-4CE				TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)			12.00				DETOUR (RIGHT)	6161012	+	BUOYS (BOATS KEEP OUT)
WO1-4CR		12.50		HORIZONTAL ARROW (SYMBOL)		48X12					STREET NAME (PLAQUE)	6161013	+	BUOYS (NO WAKE)
WO1-6a		18.00		HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4 - 10L						DETOUR ARROW (LEFT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
WO1 - 7	-	12.50		DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4 - 10R						DETOUR ARROW (RIGHT)	6161025	150	CHANNELIZER (TRIM LINE)
WO1 - 7a		18.00		DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	THE T TORK	10/(10		REGU	II ATOR	Y SIGNS	DETOCK /WKOW (KTOIT)	6161030		TYPE III MOVEABLE BARRICADE
WO1 - 8		3 00		CHEVRON (SYMBOL)	R1-1	48X48	13.25	TKE GO	Litton		STOP	6161033		DIRECTION INDICATOR BARRICADE
WO1-8a		7.50		CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TRI					YIELD	6161040		FLASHING ARROW PANEL
WO3 - 1		16.00		STOP AHEAD (SYMBOL)	R1-2a		9.00				TO ONCOMING TRAFFIC (PLAQUE)	6161047		TYPE III OBJECT MARKER
WO3 - 2		16.00		YIELD AHEAD (SYMBOL)	R1-3P		2.50				ALL WAY (PLAQUE)	6161055		SEQUENTIAL FLASHING WARNING LIGHT
WO3 - 3		16.00		SIGNAL AHEAD (SYMBOL)	R2-1		12.00				SPEED LIMIT XX	6161070		TUBULAR MARKER
WO3 - 4		16.00		BE PREPARED TO STOP	R3 - 1		16.00				NO RIGHT TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM
WO3 - 5		16.00		SPEED LIMIT AHEAD	R3-2		16.00				NO LEFT TURN (SYMBOL)			CHANGEABLE MESSAGE SIGN,
WO4-1L		16.00		MERGE (SYMBOL FROM LEFT)	R3-3		9.00				NO TURNS	6161096		COMMISSION FURNISHED/RETAINED
WO4 - 1R		16.00		MERGE (SYMBOL FROM RIGHT)	R3-4		16.00				NO U-TURN (SYMBOL)		2	CHANGEABLE MESSAGE SIGN W/O COMM.
WO4-1aL	48X48	16.00		MERGE (LEFT)	R3-7L		6.25				LEFT LANE MUST TURN LEFT	6161098A	4	INTERFACE - CONTRACTOR FURNISHED/RETAINED
WO4 - 1aR	-			MERGE (RIGHT)	R3-7R		6.25				RIGHT LANE MUST TURN RIGHT		1	CHANGEABLE MESSAGE SIGN WITH COMM.
WO5 - 1	48X48	16.00		ROAD/BRIDGE/RAMP NARROWS	R4-1		12.00				DO NOT PASS	6161099		INTERFACE - CONTRACTOR FURNISHED/RETAINED
WO5 - 3	48X48	16.00		ONE LANE BRIDGE	R4-2	36X48	12.00				PASS WITH CARE	6162000A	4	WORK ZONE TRAFFIC SIGNAL SYSTEM
WO5 - 5	48X48	16.00		NARROW LANES	R4-7a	36X48	12.00				KEEP RIGHT (HORIZONTAL ARROW)	6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
WO6 - 1	48X48	16.00		DIVIDED HIGHWAY (SYMBOL)	R4-8a	36X48	12.00				KEEP LEFT (HORIZONTAL ARROW)			TEMPORARY TRAFFIC BARRIER
WO6 - 2	48X48	16.00		DIVIDED HIGHWAY END (SYMBOL)	R5-1	30X30	6.25				DO NOT ENTER	6173600D	ر	CONTRACTOR FURNISHED/RETAINED
WO6 - 3	48X48	16.00		TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24	6.00				WRONG WAY			TEMPORARY TRAFFIC BARRIER
WO7-3a		5.00		NEXT XX MILES (PLAQUE)	R6-1L	54X18	6.75				ONE WAY ARROW (LEFT)	6173602B	š	CONTRACTOR FURNISHED/COMMISSION RETAINED
WO8 - 1		16.00		BUMP	R6-1R		6.75				ONE WAY ARROW (RIGHT)	6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
WO8 - 2		16.00		DIP	R6-2L	24X30					ONE WAY (LEFT)	6175010A	<u> </u>	RELOCATING TEMPORARY TRAFFIC BARRIER
WO8 - 3		16.00		PAVEMENT ENDS	R6-2R		5.00				ONE WAY (RIGHT)			TEMPORARY TRAFFIC BARRIER
WO8 - 4		16.00		SOFT SHOULDER	R9-9	24X12	2.00				SIDEWALK CLOSED	6176000B	3	COMMISSION FURNISHED/RETAINED
WO8 - 5		16.00		SLIPPERY WHEN WET (SYMBOL)							SIDEWALK CLOSED AHEAD,			TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
WO8 - 6		16.00		TRUCK CROSSING	R9-11L	24X18	3.00				(ARROW LEFT) CROSS HERE	6177000B	+	COMMISSION FURNISHED/RETAINED
WO8 - 6 c		16.00		TRUCK ENTRANCE		24440					SIDEWALK CLOSED AHEAD,	6208064A	4	TEMPORARY RAISED PAVEMENT MARKER
WO8 - 7		9.00		LOOSE GRAVEL		24X18					(ARROW RIGHT) CROSS HERE	9029400		TEMPORARY TRAFFIC SIGNALS
WO8 - 7a WO8 - 9				FRESH OIL / LOOSE GRAVEL	R10-6 R11-2	24X36	_				STOP HERE ON RED (45^ ARROW) ROAD CLOSED	9029401	+	TEMPORARY TRAFFIC SIGNALS AND LIGHTING
				LOW SHOULDER UNEVEN LANES	K11-2	40/30	10.00				ROAD CLOSED XX MILES AHEAD		+	
WO8-11 WO8-12				NO CENTER LINE	R11-3a	60X30	12 50				LOCAL TRAFFIC ONLY		+	
WO8 - 12				GROOVED PAVEMENT	R11-3						ROAD CLOSED TO THRU TRAFFIC		+	
WO8 - 15P				MOTORCYCLE (PLAQUE)	CONST - 3/						FINE SIGN			
WO8 - 17L				SHOULDER DROP-OFF (SYMBOL LEFT)	CONST - 32						SPEEDING/PASSING (PLATE)			
WO8 - 17R				SHOULDER DROP-OFF (SYMBOL RIGHT)	001131 37	JONIE		MISC	FIΙΔΝ	EOUS SIGNS	STEED ING THE CIETTE	1		<u> </u>
WO8 - 17P				SHOULDER DROP-OFF (PLAQUE)	CONST - 5	48X36		1417.50			POINT OF PRESENCE			
W10-1				RAILROAD CROSSING	CONST - 5						POINT OF PRESENCE			
WO12-1				DOUBLE DOWN ARROW (SYMBOL)	CONST - 8			2	24		WORK ZONE NO PHONE ZONE			
WO12 - 2				LOW CLEARANCE (SYMBOL)		1								l
W012 - 2×				LOW CLEARANCE (PLAQUE)										
WO12-2a				OVERHEAD LOW CLEARANCE (FEET AND INCHES)										
WO12-4				LOW CLEARANCE XX FT XX IN XX MILES AHEAD										l
WO12-5	120X60	50.00		WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD										
WO13-1				ADVISORY SPEED (PLAQUE)										l
WO16-2				XXX FEET (PLAQUE)										
WO16-3				X MILE (PLAQUE)										
WO20-1	48X48	16.00	0 18 288 2	ROAD/BRIDGE/RAMP WORK AHEAD										l
WO20-2				DETOUR AHEAD										
WO20-3	48X48	16.00		ROAD CLOSED AHEAD	616-10	. 05			TOTAL					
WO20-4	48X48	16 00	20 320 7	ONE LANE ROAD AHEAD	CONSTR	UCTIO	N SIG	ins t	1862					

CONSTRUCTION SIGNS 1862 616-10.10

RELOCATED SIGNS

TOTAL 0

WO20-4 48X48 16.00 20 320 WO20-5 48X48 16.00

WO20-7a 48X48 16.00 18 288 WO21-2 36X36 9.00

GO22-1 21X15 2 19 4 8 76

WO20-5a 48X48 16.00

WO20-6a 48X48 16.00

WO21-5 48X48 16 00

WO22-1 48X48 16 00

WO22-2 42X36 10.50

WO22-3 42X36 10.50

7 ONE LANE ROAD AHEAD

8 FLAGGER (SYMBOL)
FRESH OIL

BLASTING ZONE AHEAD

WET PAINT (ARROW PIVOTS)

END BLASTING ZONE

RIGHT/CENTER/LEFT LANE CLOSED AHEAD

SHOULDER WORK / SHOULDER WORK AHEAD

RIGHT/CENTER/LEFT LANE CLOSED

TURN OFF 2-WAY RADIO AND PHONE

2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD

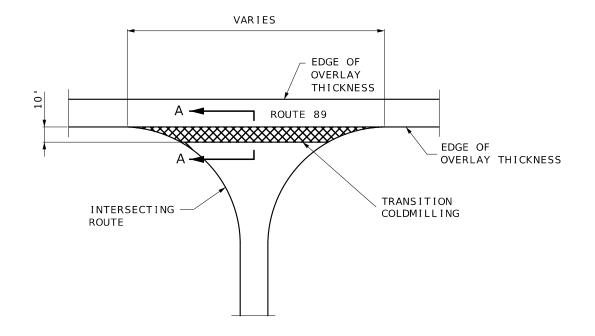
GREGORY G.
LEARY
NUMBER
PE-026654 8/5/2025 89 MO SHEET NO. CD OSAGE

JOB NO.

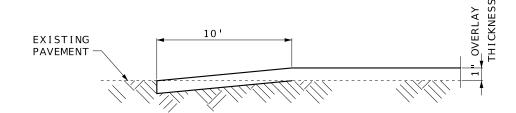
JCD0151

CONTRACT ID. PROJECT NO. BRIDGE NO.

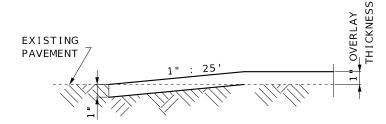
SUMMARY OF QUANTITIES
SHEET 3 OF 3



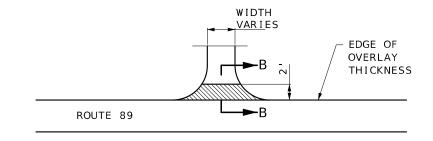
TYPICAL STATE ROUTE JUNCTION

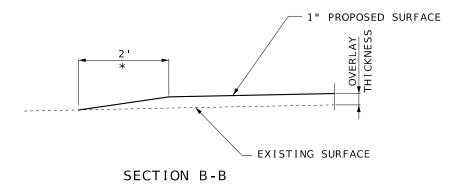


SECTION A-A
TYPICAL STATE ROUTE JUNCTION
(COLDMILLED TRANSITION)

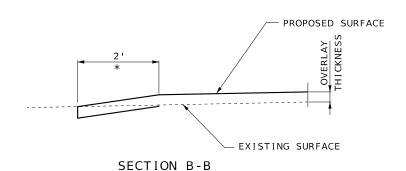


TRAVELWAY DEPTH TRANSITIONS
BEGINNING & END OF PROJECT
AND AT RAILROAD/BRIDGE
EXCEPTIONS

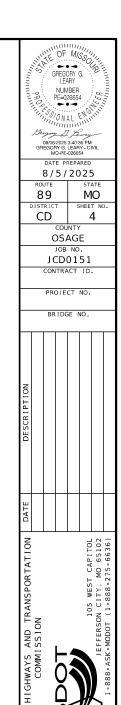


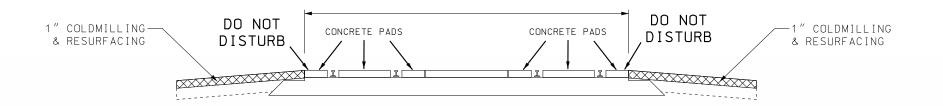


TYPICAL GRAVEL ENTRANCE
(FIELD, PRIVATE OR COUNTY ROAD)
* TAPER AT 1:1 FOR FIELD ENTRANCE



TYPICAL CONCRETE/BITUMINOUS ENTRANCE
MODIFIED COLDMILL DETAIL
(PRIVATE OR COUNTY ROAD)
* TAPER AT 1:1 FOR FIELD ENTRANCE





COLDMILLING UP TO RXR CONCRETE PAD WITHOUT DISTURBING IT.



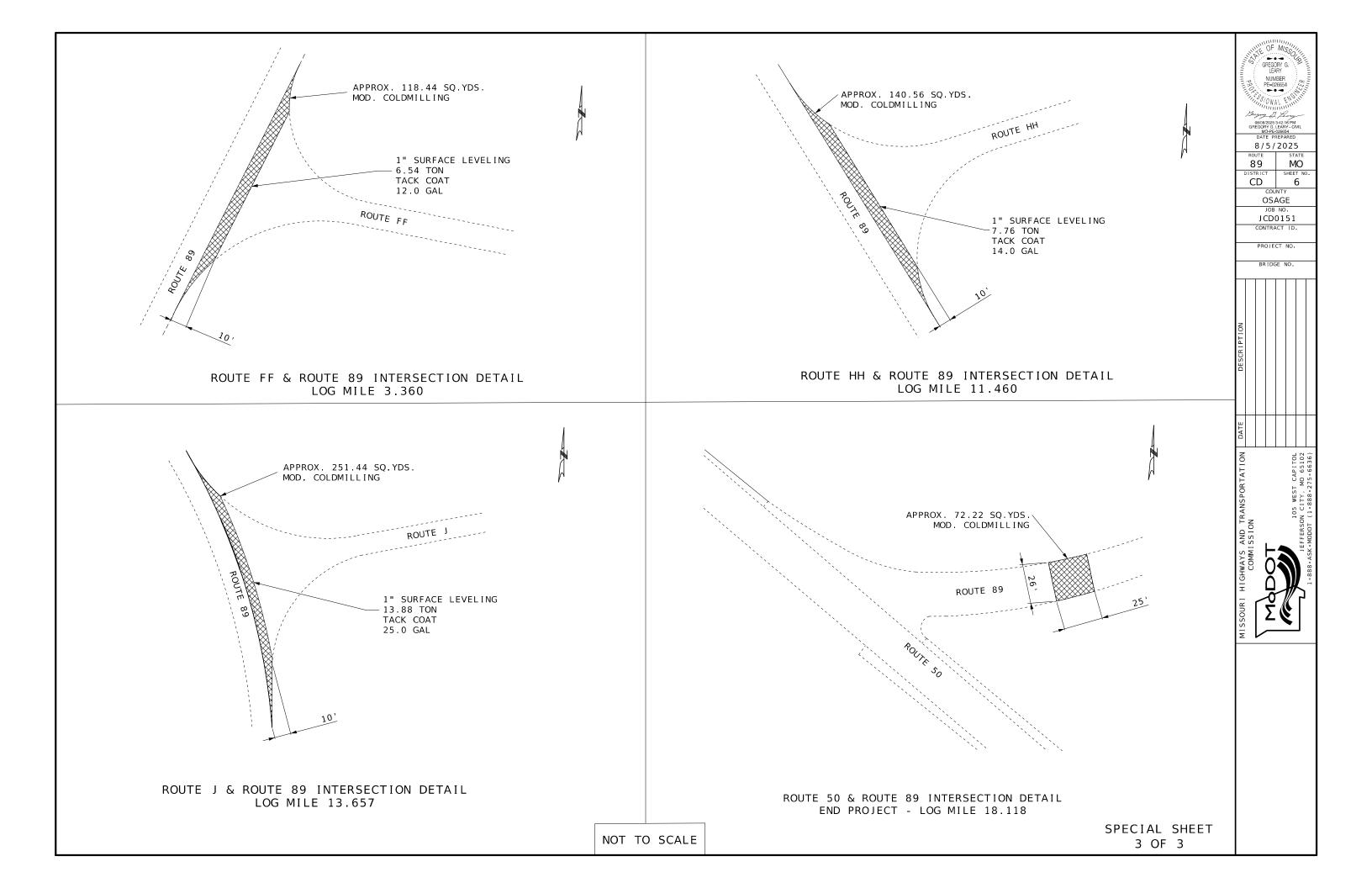
GREGORY G.
LEARY
MIMBER
PE-206664

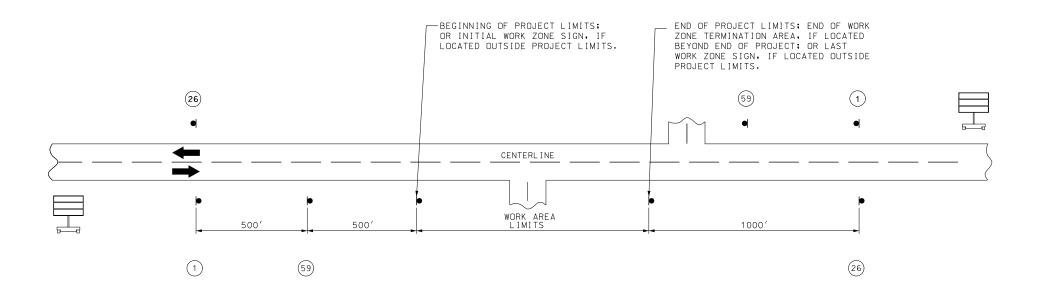
DATE PREPARED
8 / 5 / 2025

ROUTE
89 MO
DISTRICT
COUNTY
OSAGE
JOB NO.
J CD0151
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

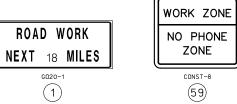




SIGN (1) AND (26) ARE ONLY USED ON PROJECT LENGTHS 2 MILES OR GREATER.

PROVIDE SIGNS IN EACH DIRECTION ON TWO-WAY HIGHWAY.

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

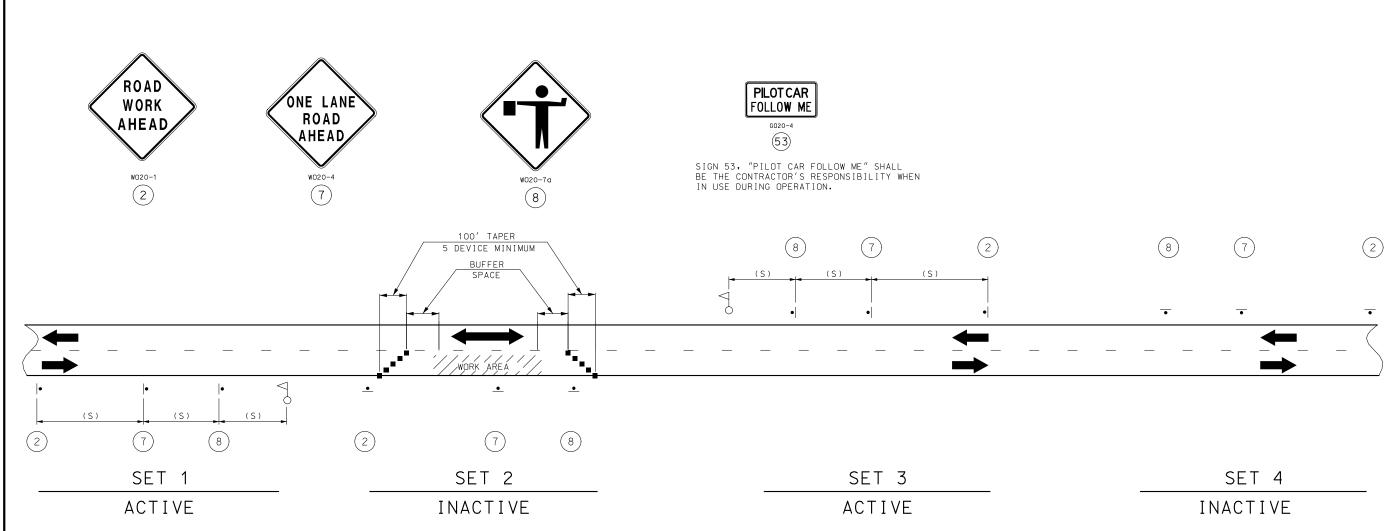


GREGORY G. LEARY NUMBER PE-026654 8/5/2025 89 MO SHEET NO. CD OSAGE JOB NO.
JCD0151
CONTRACT ID. PROJECT NO. BRIDGE NO.

END

ROAD WORK

26)



THIS PLAN IS FOR DAYLIGHT FLAGGING OPERATIONS ONLY. WHEN NIGHT WORK IS REQUIRED, OR OTHERWISE ALLOWED BY THE ENGINEER, WORK ZONE LIGHTING SHALL BE PROVIDED IN ACCORDANCE WITH SEC 616.5.2.

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

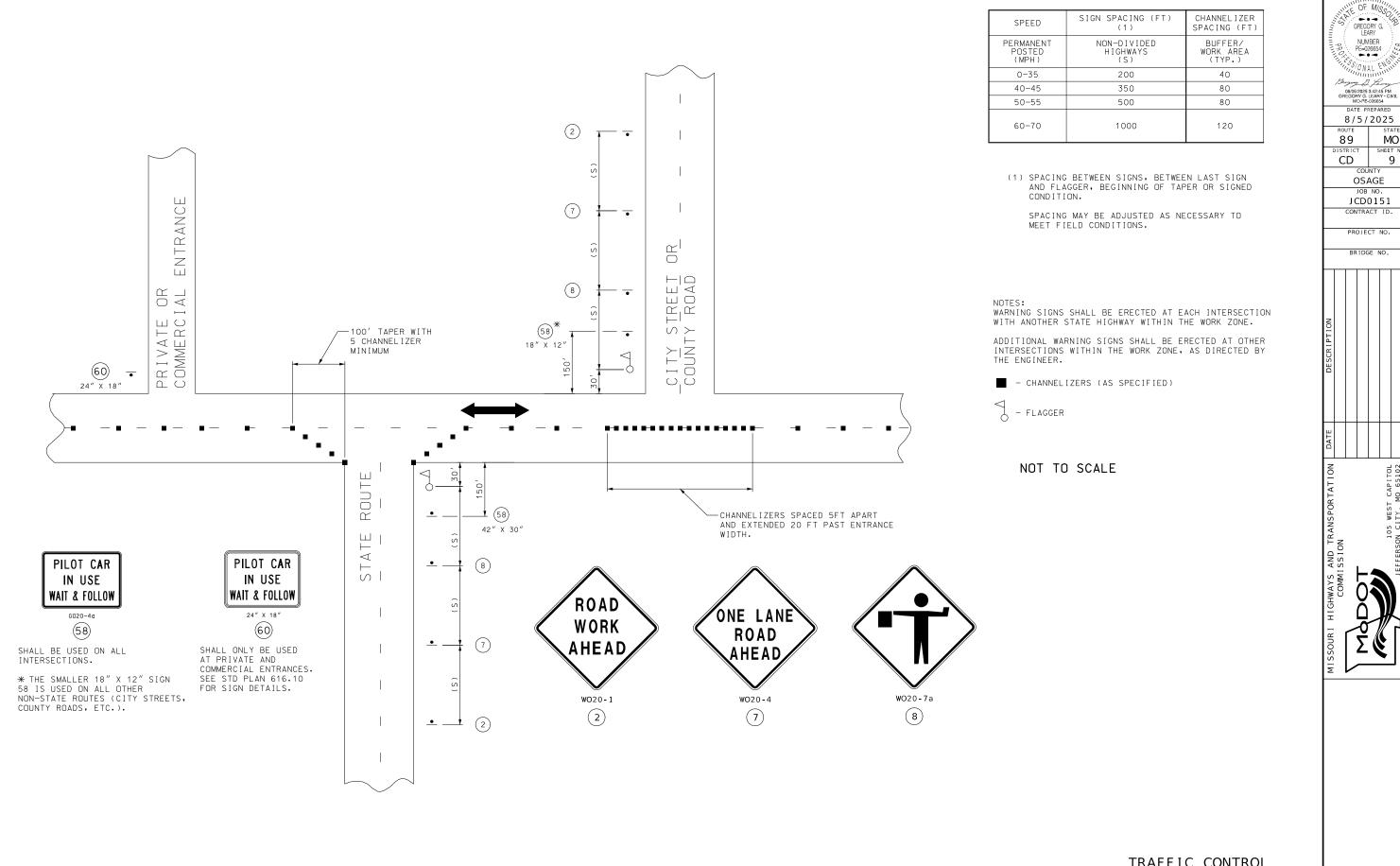
SPEED	SIGN SPACING (FT) (1)	BUFFER SPACE
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	LENGTH (FT)
0-35	200	250
40-45	350	360
50-55	500	495
60-70	1000	730

(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 5

GREGORY G. LEARY NUMBER PE-026654 PE-VAL ENGY 08/06/2025 3:42:04 PM GREGORY G. LEARY - CIVIL MO-PE-026654 DATE PREPARED 8/5/2025 89 MO SHEET NO CD 8 OSAGE JCD0151 CONTRACT ID. PROJECT NO. BRIDGE NO.



SIDE ROADS ENTERING WORK ZONES

TRAFFIC CONTROL SHEET 3 OF 5

GREGORY G.

NUMBER PE-026654

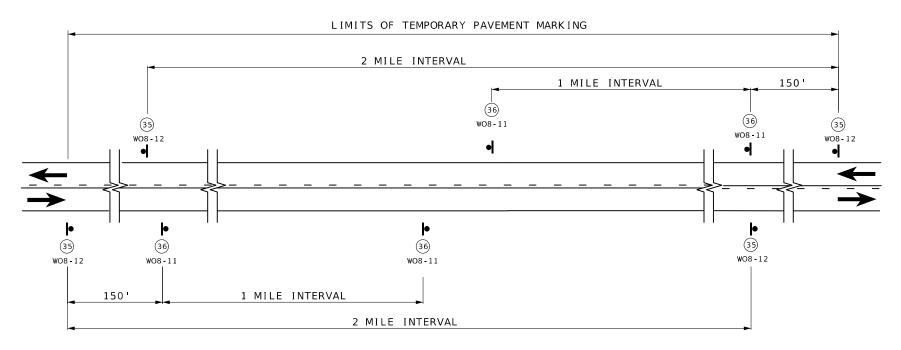
MO SHEET NO

9

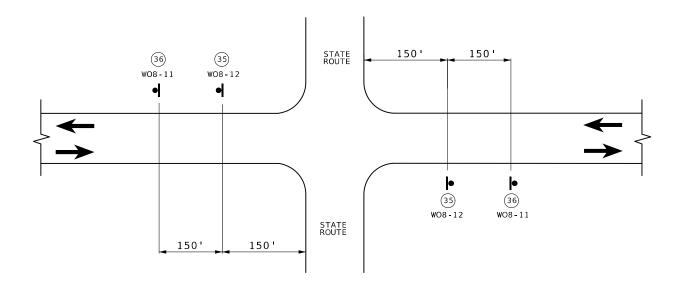
OSAGE

JCD0151

PROJECT NO. BRIDGE NO.



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.

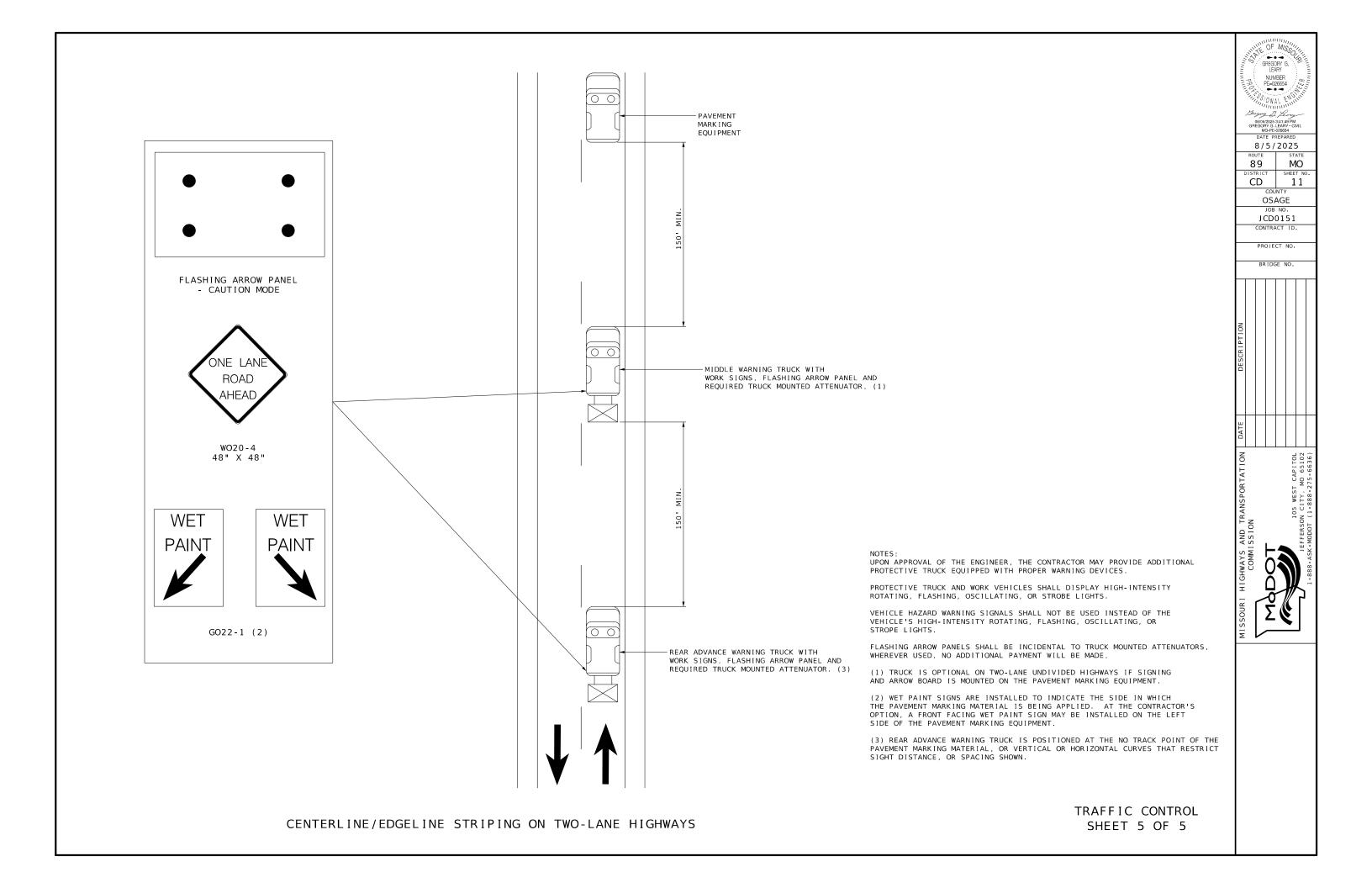
SIGN 35 IS PLACED AT APPROXIMATELY TWO-MILE INTERVALS AND AT STATE ROUTE JUNCTIONS. WHEN THE INSTALLATION AT A JUNCTION IS WITHIN ONE-EIGHTH MILE OF THE NORMAL MAINLINE SIGN 35 , THE LATTER MAY BE ELIMINATED.

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

8/5/2025 89 MO CD 10 OSAGE JOB NO.
JCD0151 CONTRACT ID. PROJECT NO. BRIDGE NO.

GREGORY G. LEARY NUMBER PE-026654

TRAFFIC CONTROL SHEET 4 OF 5



DESIGN DESIGNATION

A.A.D.T. - 2024 = 321 T = 10%V = 55 M.P.H.

FUNCTIONAL CLASSIFICATION - MAJOR COLLECTOR

NO NEW RIGHT OF WAY REQUIRED

CONVENTIONAL SYMBOLS

(USED IN PLANS	> <i>)</i>	
	EXISTING	NEW
BUILDINGS AND STRUCTURES GUARD RAIL GUARD CABLE CONCRETE RIGHT-OF-WAY MARKER STEEL RIGHT-OF-WAY MARKER LOCATION SURVEY MARKER UTILITIES	0000 0000 111 17	
FIBER OPTICS OVERHEAD CABLE TV UNDERGROUND CABLE TV OVERHEAD TELEPHONE UNDERGROUND TELEPHONE OVERHEAD POWER UNDERGROUND POWER SANITARY SEWER STORM SEWER GAS WATER	- FOOTVUTV OT UT OE UE SS G W	-F0 -OTV -UTV -OT- -UT -OE- -UE- -S -SS- -G
MANHOLE	SAN HYD)
FIRE HYDRANT	w _v C	Ì
WATER VALVE	‴° C)
WATER METER	₩")
DROP INLET	¹	
DITCH BLOCK	=	<u> </u>
GROUND MOUNTED SIGN	SIGN	-
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL FENCE	PED	7
CHAIN LINK WOVEN WIRE GATE POST	—— x	<u></u>
BENCHMARK	ВМ)

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY

OSAGE COUNTY



INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (1 SHEET)	2
QUANTITIES (QU) (2 SHEETS)	3
SPECIAL SHEETS (SS)	4 - 5
TRAFFIC CONTROL SHEETS (TC)	6 - 10

NUN PE-O PE-O PE-O PE-O PE-O PE-O PE-O PE-O	M/SS GARAN ARY G
	2025
ROUTE 89 SPUR	STATE MO
DISTRICT	SHEET NO.
CD	
	1
COU	NTY AGE
COU OSA JOB	NTY AGE NO.
COU OSA JOB JCD(NTY AGE NO. D327
COU OSA JOB J CD(CONTRA	NTY AGE NO. D327
COU OS A JOB J CD (CONTRA	NTY AGE NO. D327

NOT TO SCALE

LENGTH OF PROJECT - 89 SPUR

BEGINNING OF PROJECT L.M. 0.002 END OF PROJECT L.M. 1.592

APPARENT LENGTH 8,395.2 FEET

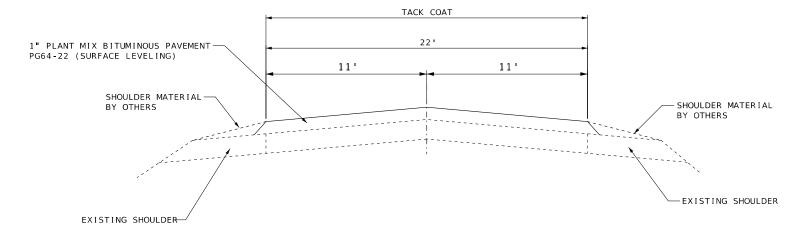
EQUATIONS AND EXCEPTIONS:

MISSOURI HIGHWAYS AND TRANSPORTA
COMMISSION

105 WEST CA
1-888-ASK-MODOT (1-888-275-

TOTAL CORRECTIONS	0	FEET
NET LENGTH OF PROJECT	8,395.2	FEET
STATE LENGTH	1.590	MILES
FOR INFORMATION ONLY		
ESTIMATED DISTURBED ACRES	0	ACRES

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 FROR 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.



ROUTE 89 SPUR
TYPICAL SECTION
LOG MILE 0.002 TO LOG MILE 1.592

GREGORY G.
LEARY
NUMBER
PE-026654 8/5/2025 9 SPUR MO CD 2 OSAGE JOB NO.
JCD0327
CONTRACT ID. PROJECT NO. BRIDGE NO.

BITUMINOUS PAVEMENT MIXTURE PG64-22 (SURFACE LEVELING)

TACK COAT (EXIST. ASPH.)

.08 GAL/YD²

	1" BITUMINOUS PAVEMENT MIX PG64-22 (SURFACE LEVELING)											
							1" SURFACE					
						AVERAGE	LEVEL	TACK				
				LENGTH	WIDTH	AREA	1.987 TONS/CY	COAT				
LOG MILE	LOG MILE	LOCATION	MILES	FT	FT	SF	TONS	GALLONS	REMARKS			
0.002	0.063	ROUTE 89 SPUR	0.061	322.08	VAR	14690	90.1	131.0	BEGIN PROJECT - IRREGULAR AREA			
0.063	1.592	ROUTE 89 SPUR	1.529	8073.12	22		1089.2	1579.0				
							12.3	20.0	2' WING OUT - PRIVATE/CITY/COUNTY ENTRANCE			
							294.8		25% IRREGULARITIES			
						TOTAL	1486.4	1730.0				
						USE	1486.4	1730				

MOBILIZATION

TOTAL = 1 LUMP SUM

	MODIFIED COLDMILLING (DEPTH TRANSITIONS)											
LOG MILE	LOG MILE	LOCATION	LENGTH FT	WIDTH FT	AVERAGE AREA SF	MODIFIED COLDMILLING SY	REMARKS					
1.587	1.592	ROUTE 89 SPUR	25	23	575	63.89	END PROJECT					
1.245		ROUTE 89 SPUR - RT	2	26	52	5.78	PRIVATE - CONCRETE					
					TOTAL USE	69.67 70						

GRAVEL (A) OR CRUSHED STONE (B)								
			NET	GRAVEL OR				
			LENGTH	CRUSHED STONE				
LOG MILE	LOG MILE	LOCATION	MILES	TONS	REMARKS			
0.002	1.592	ROUTE 89 SPUR	1.590	65.0				
			TOTAL	65.0				
			USE	65				

	CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS)										
			LENGTH	4" YELLOW	4" WHITE						
LOG MILE	LOG MILE	LOCATION	FT	LF	LF	REMARKS					
0.002	0.063	ROUTE 89 SPUR	322.08	1288.32	1288.32	DOUBLE YELLOW					
0.063	0.605	ROUTE 89 SPUR	2861.76	5723.52	5723.52	DOUBLE YELLOW					
0.605	0.705	ROUTE 89 SPUR	528.00	660.00	1056.00	SB PASSING ZONE					
0.705	0.773	ROUTE 89 SPUR	359.04	89.76	718.08	INT. YELLOW					
0.773	0.904	ROUTE 89 SPUR	691.68	864.60	1383.36	NB PASSING ZONE					
0.904	1.592	ROUTE 89 SPUR	3632.64	7265.28	7265.28	DOUBLE YELLOW					
						ALL PAVEMENT MARKING					
			TOTAL	15891.48	17434.56	TO MATCH EXISTING. LOCATE					
			USE	15891	17435	BEFORE OVERLAY WORK.					

PATCHING ROUTES FOR DAMAGED PAVEMENT								
			NET	NET REMOVAL OF REPLACEMENT OF				
	LENGTH DAMAGED PAVEMENT DAMAGED PAVEMENT							
LOG MILE	LOG MILE	LOCATION	MILES	SY	TON	REMARKS		
0.002	1.592	ROUTE 89 SPUR	1.590	50.0	8.3			
			TOTAL	50.0	8.3			
			USE	50	8.3			

GREGORY G. LEARY NUMBER PE-026654

DATE PREPARED

8/5/2025

ROUTE STATE

89 SPUR MO

DISTRICT SHEET NO.

CD 3

COUNTY

OSAGE

JOB NO.

J CD0327

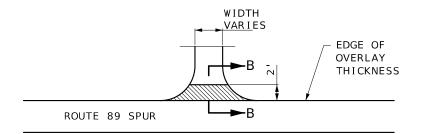
CONTRACT ID.

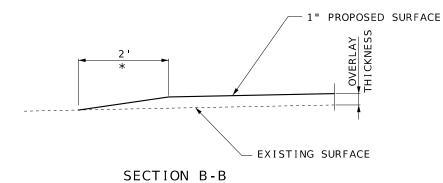
PROJECT NO.

BRIDGE NO.

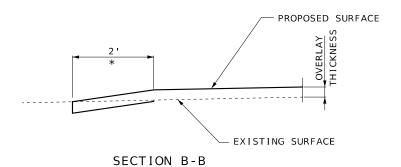


										EFFECTIVE: 07-01-2024	Т	ши	ши
TOTAL OTY	TOTALSIGN					QTY TOTAL SIGN	ı			ETTECTIVE. 07 01 2024		INTE OF	MISSOLL
SIZE AREA QTY AREA RELOC			C 1 7 E	 ADEA		RELOCIRELOC NUM.	`				130	ζ ^P GREGO	
		CIGN			`		1	, , ,	TOTAL		111	: LEA	
SIGN IN SQ.FT EACH SQ.FT. EACH		SIGN	IN.	SQ.FT		EACH SQ.FT.	4		TOTAL		15.7		MBER 126654
WARNING SIGNS	DESCRIPTION				GUIDE SIG	NS	DESCRIPTION	NUMBER		DESCRIPTION	1 3	% - •	· — //2
WO1-1L 48X48 16.00	TURN (SYMBOL LEFT)	E05-1		12.00			GORE EXIT	6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)		11,1,5/0 NA	AL ENGLIN
WO1-1R 48X48 16.00	TURN (SYMBOL RIGHT)	E05-2		12.00			EXIT OPEN	6122009	_	IMPACT ATTENUATOR 45 MPH (SAND BARRELS)	1	Megory D	1 Leary
WO1-2L 48X48 16.00	CURVE (SYMBOL LEFT)	E05-2a		12.00			EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)		08/06/2025	
WO1-2R 48X48 16.00	CURVE (SYMBOL RIGHT)	GO20 - 1		10.00			ROAD WORK NEXT X MILES	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)		MO-PE-	-026654 REPARED
WO1-3L 48X48 16.00	REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24		1 1 5		END ROAD WORK	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)			2025
WO1-3R 48X48 16.00	REVERSE TURN (SYMBOL RIGHT)	GO20-4		4.50	1 4.5	53	PILOT CAR FOLLOW ME	612201		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)	F	ROUTE	STATE
WO1-4L 48X48 16.00	REVERSE CURVE (SYMBOL LEFT)	GO20 - 4a			2 4.5		PILOT CAR IN USE WAIT & FOLLOW	6122019	_	IMPACT ATTENUATOR 70 MPH (SAND BARRELS)	89	SPUR	OM 🗵
WO1-4R 48X48 16.00	REVERSE CURVE (SYMBOL RIGHT)	GO20-4a GO20-5a			3 4.5	58	PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL		STRICT	SHEET N
WO1-4bL 48X48 16.00	DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	1					WORK ZONE (PLAQUE)	6122030		IMPACT ATTENUATOR (RELOCATION)		CD	3
WO1-4bR 48X48 16.00	DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4 - 8 a MO4 - 9 L	24X18				END DETOUR	612300		TRUCK MOUNTED ATTENUATOR (TMA)			JNTY
WO1-4cL 48X48 16.00 WO1-4cR 48X48 16.00	TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L MO4-9R		12.00			DETOUR (LEFT) DETOUR (RIGHT)	6161008	_	ADVANCED WARNING RAIL SYSTEM BUOYS (BOATS KEEP OUT)	-		AGE NO.
WO1-6 60X30 12.50	TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT) HORIZONTAL ARROW (SYMBOL)	MO4 - 9R MO4 - 9P		4.00			STREET NAME (PLAQUE)	6161013	_	BUOYS (NO WAKE)			0327
WO1-6a 72X36 18.00	HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-9F MO4-10L					DETOUR ARROW (LEFT)	6161014	_	SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)	-	CONTRA	
WO1-7 60X30 12.50	DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4-10L MO4-10R					DETOUR ARROW (EEFT)	6161012	_	CHANNELIZER (TRIM LINE)			
WO1-7 60X30 12.30 WO1-7a 72X36 18.00	DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	MO4-10K	140710	0.00	REGULATOR	Y SIGNS	DETOOK AKKOW (KIGHI)	616102	_	TYPE III MOVEABLE BARRICADE		PROJE	CT NO.
W01-74 72X36 18.00 W01-8 18X24 3.00	CHEVRON (SYMBOL)	R1-1	48710	13.25		1 210112	STOP	616103	_	DIRECTION INDICATOR BARRICADE	L		
WO1-8 18X24 3.00 WO1-8a 30X36 7.50	CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-1	_	6.93	 		YIELD	6161040	_	FLASHING ARROW PANEL		BRIDG	GE NO.
W01-8a 30X36 7.30 W03-1 48X48 16.00	STOP AHEAD (SYMBOL)	R1-2		9.00	 		TO ONCOMING TRAFFIC (PLAQUE)	616104	_	TYPE III OBJECT MARKER	\vdash		
WO3-2 48X48 16.00	YIELD AHEAD (SYMBOL)	R1-3P		2.50			ALL WAY (PLAQUE)	616105	_	SEOUENTIAL FLASHING WARNING LIGHT			$ \cdot \cdot $
WO3-3 48X48 16.00	SIGNAL AHEAD (SYMBOL)	R2 - 1		12.00			SPEED LIMIT XX	6161070	_	TUBULAR MARKER			$1 \mid 1 \mid$
WO3-4 48X48 16.00	BE PREPARED TO STOP	R3 - 1		16.00			NO RIGHT TURN (SYMBOL)	6161095	_	RADAR SPEED ADVISORY SYSTEM			$ \cdot \cdot $
WO3-5 48X48 16.00	SPEED LIMIT AHEAD	R3 - 2		16.00			NO LEFT TURN (SYMBOL)	510109.	-	CHANGEABLE MESSAGE SIGN,			$ \cdot \cdot $
WO4-1L 48X48 16.00	MERGE (SYMBOL FROM LEFT)	R3 - 3		9.00			NO TURNS	6161096	5	COMMISSION FURNISHED/RETAINED	8		$ \cdot \cdot $
WO4-1R 48X48 16.00	MERGE (SYMBOL FROM RIGHT)	R3 - 4		16.00			NO U-TURN (SYMBOL)		+	CHANGEABLE MESSAGE SIGN W/O COMM.	Ĕ		$ \cdot \cdot $
WO4-1AL 48X48 16.00	MERGE (LEFT)	R3 - 7L		6.25			LEFT LANE MUST TURN LEFT	6161098	A	INTERFACE - CONTRACTOR FURNISHED/RETAINED	F		$1 \mid 1 \mid$
WO4-1aR 48X48 16.00	MERGE (RIGHT)	R3 - 7R		6.25			RIGHT LANE MUST TURN RIGHT			CHANGEABLE MESSAGE SIGN WITH COMM.	SC		1
WO5-1 48X48 16.00	ROAD/BRIDGE/RAMP NARROWS	R4-1		12 00			DO NOT PASS	6161099	,	INTERFACE - CONTRACTOR FURNISHED/RETAINED	집		1
WO5-3 48X48 16.00	ONE LANE BRIDGE	R4-2		12.00			PASS WITH CARE	6162000	_	WORK ZONE TRAFFIC SIGNAL SYSTEM			1
WO5-5 48X48 16.00	NARROW LANES	R4-7a		12.00			KEEP RIGHT (HORIZONTAL ARROW)	6162002	_	TEMPORARY LONG-TERM RUMBLE STRIPS			1
WO6-1 48X48 16.00	DIVIDED HIGHWAY (SYMBOL)	R4-8a		12.00			KEEP LEFT (HORIZONTAL ARROW)			TEMPORARY TRAFFIC BARRIER			1
WO6-2 48X48 16.00	DIVIDED HIGHWAY END (SYMBOL)	R5 - 1		6.25			DO NOT ENTER	6173600	Ы	CONTRACTOR FURNISHED/RETAINED			1
WO6-3 48X48 16.00	TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24	6.00			WRONG WAY			TEMPORARY TRAFFIC BARRIER			
WO7-3a 30X24 5.00	NEXT XX MILES (PLAQUE)	R6-1L	54X18	6.75			ONE WAY ARROW (LEFT)	6173602	В	CONTRACTOR FURNISHED/COMMISSION RETAINED	Ψ		1
WO8-1 48X48 16.00	BUMP	R6-1R	54X18	6.75			ONE WAY ARROW (RIGHT)	6174000	A	TEMP. TRAFFIC BARRIER HEIGHT TRANSITION			1
WO8-2 48X48 16.00	DIP	R6-2L		5.00			ONE WAY (LEFT)	6175010	A	RELOCATING TEMPORARY TRAFFIC BARRIER	1		
WO8-3 48X48 16.00	PAVEMENT ENDS	R6-2R	24X30	5.00			ONE WAY (RIGHT)			TEMPORARY TRAFFIC BARRIER	Ö		P1TOL 65102
WO8-4 48X48 16.00	SOFT SHOULDER	R9-9	24X12	2.00			SIDEWALK CLOSED	6176000	В	COMMISSION FURNISHED/RETAINED			
WO8-5 48X48 16.00	SLIPPERY WHEN WET (SYMBOL)						SIDEWALK CLOSED AHEAD,			TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	12		ပိ ဋ
WO8-6 48X48 16.00	TRUCK CROSSING	R9-11L	24X18	3.00			(ARROW LEFT) CROSS HERE	6177000	В	COMMISSION FURNISHED/RETAINED	Ö		TS:
WO8-6c 48X48 16.00	TRUCK ENTRANCE						SIDEWALK CLOSED AHEAD,	6208064	Α	TEMPORARY RAISED PAVEMENT MARKER	IS I		¥ [
WO8-7 36X36 9.00	LOOSE GRAVEL	R9-11R	24X18	3.00			(ARROW RIGHT) CROSS HERE	9029400)	TEMPORARY TRAFFIC SIGNALS	₹		105
WO8-7a 36X36 9.00	FRESH OIL / LOOSE GRAVEL	R10-6		6.00			STOP HERE ON RED (45^ ARROW)	902940	1	TEMPORARY TRAFFIC SIGNALS AND LIGHTING	IË ₹	5	_ 2
WO8-9 48X48 16.00	LOW SHOULDER	R11-2	48X30	10.00			ROAD CLOSED				19:	2	in an
WO8-11 48X48 16.00 4 64	36 UNEVEN LANES						ROAD CLOSED XX MILES AHEAD				A C	<u>~</u>	_ "
WO8-12 48X48 16.00 2 32	35 NO CENTER LINE	R11-3a	60X30	12.50			LOCAL TRAFFIC ONLY				S		
WO8-15 48X48 16.00	GROOVED PAVEMENT	R11-4	60X30	12.50			ROAD CLOSED TO THRU TRAFFIC				188	₹ ∩	
WO8-15P 30X24 5.00	MOTORCYCLE (PLAQUE)	CONST - 3.					FINE SIGN				18,	Ă	711
WO8-17L 48X48 16.00	SHOULDER DROP-OFF (SYMBOL LEFT)	CONST - 3	X 56X12				SPEEDING/PASSING (PLATE)				ΙΞ̈́		Щ
WO8-17R 48X48 16.00	SHOULDER DROP-OFF (SYMBOL RIGHT)					EOUS SIGNS					1	_⊼	<i>////</i> :
WO8-17P 30X24 5.00	SHOULDER DROP-OFF (PLAQUE)	CONST - 5					POINT OF PRESENCE				품	7	. /(
W10-1 42RND. 9.62	RAILROAD CROSSING	CONST - 5					POINT OF PRESENCE				ĬĞ	\(\(\)	'2
WO12-1 24X24 4.00	DOUBLE DOWN ARROW (SYMBOL)	CONST-8	48X36	12.00	2 24	59	WORK ZONE NO PHONE ZONE				S	1 _	
WO12-2 48X48 16.00	LOW CLEARANCE (SYMBOL)	 	1								Σ		
W012-2x 24X18 3.00	LOW CLEARANCE (PLAQUE)	-	-	-									
WO12-2a 84X24 14.00	OVERHEAD LOW CLEARANCE (FEET AND INCHES)	-	1	-							1		
W012-4 120X60 50.00	LOW CLEARANCE XX FT XX IN XX MILES AHEAD	1	1	-							1		
W012-5 120X60 50.00	WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD	1	1	-							1		
W013-1 30X30 6.25	ADVISORY SPEED (PLAQUE)	1	1	-							1		
W016-2 30X24 5.00	XXX FEET (PLAQUE)	-	1	-							1		
W016-3 30X24 5.00	X MILE (PLAQUE)	-	1	-							1		
W020-1 48X48 16.00 7 112	2 ROAD/BRIDGE/RAMP WORK AHEAD	1	1	-							1		
W020-2 48X48 16.00	DETOUR AHEAD	1 616 11	1								1		
W020-3 48X48 16.00	ROAD CLOSED AHEAD	616-10		N	TOTAL						1		
W020-4 48X48 16.00 9 144	7 ONE LANE ROAD AHEAD	CONSTR		אנ 510	GNS 506	TOTAL					1		
WO20-5 48X48 16.00	RIGHT/CENTER/LEFT LANE CLOSED AHEAD	616-10		CALC		TOTAL					1		
WO20-5a 48X48 16.00	2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD	RELOCA	ALED S	o I GNS		0					1		
WO20-6a 48X48 16.00	RIGHT/CENTER/LEFT LANE CLOSED	4									1		
WO20-7a 48X48 16.00 7 112	8 FLAGGER (SYMBOL)	4									1		
W021-2 36X36 9.00	FRESH OIL	-								IN AN A A D V			
WO21-5 48X48 16.00	SHOULDER WORK / SHOULDER WORK AHEAD	-							S	JMMARY OF QUANTITIES	1		
W022-1 48X48 16.00	BLASTING ZONE AHEAD	-								SHEET 2 OF 2	1		
W022-2 42X36 10.50	TURN OFF 2-WAY RADIO AND PHONE	1								SHEET Z OF Z	1		
W022-3 42X36 10.50	END BLASTING ZONE	1									1		
GO22-1 21X15 2.19 4 8.76	WET PAINT (ARROW PIVOTS)	<u> </u>											
													$\overline{}$

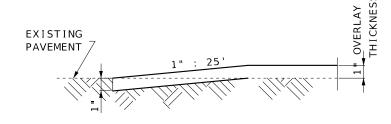




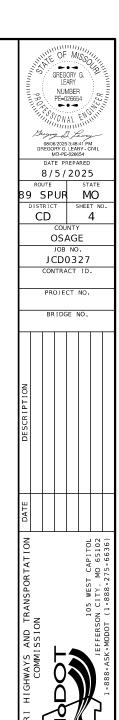
TYPICAL GRAVEL ENTRANCE
(FIELD, PRIVATE OR COUNTY ROAD)
* TAPER AT 1:1 FOR FIELD ENTRANCE



TYPICAL CONCRETE/BITUMINOUS ENTRANCE
MODIFIED COLDMILL DETAIL
(PRIVATE OR COUNTY ROAD)
* TAPER AT 1:1 FOR FIELD ENTRANCE



TRAVELWAY DEPTH TRANSITION END OF PROJECT



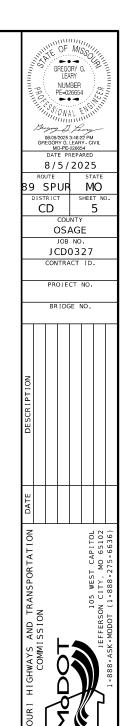
BEGIN PROJECT LOG MILE 0.002



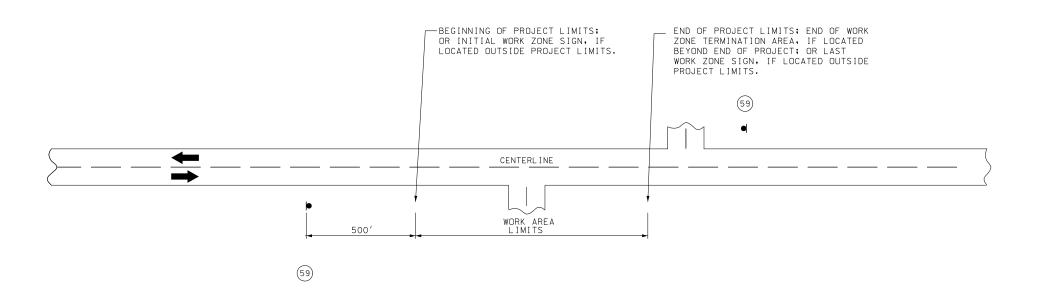
ROUTE 89 SPUR & ROUTE 89 INTERSECTION DETAIL BEGIN PROJECT - LOG MILE 0.002



ROUTE 50 AND ROUTE 89 SPUR INTERSECTION DETAIL END PROJECT - LOG MILE 1.592



SPECIAL SHEET 2 OF 2



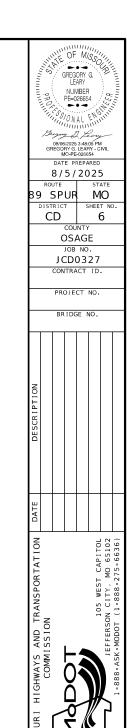
PROVIDE SIGNS IN EACH DIRECTION ON TWO-WAY HIGHWAY.

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

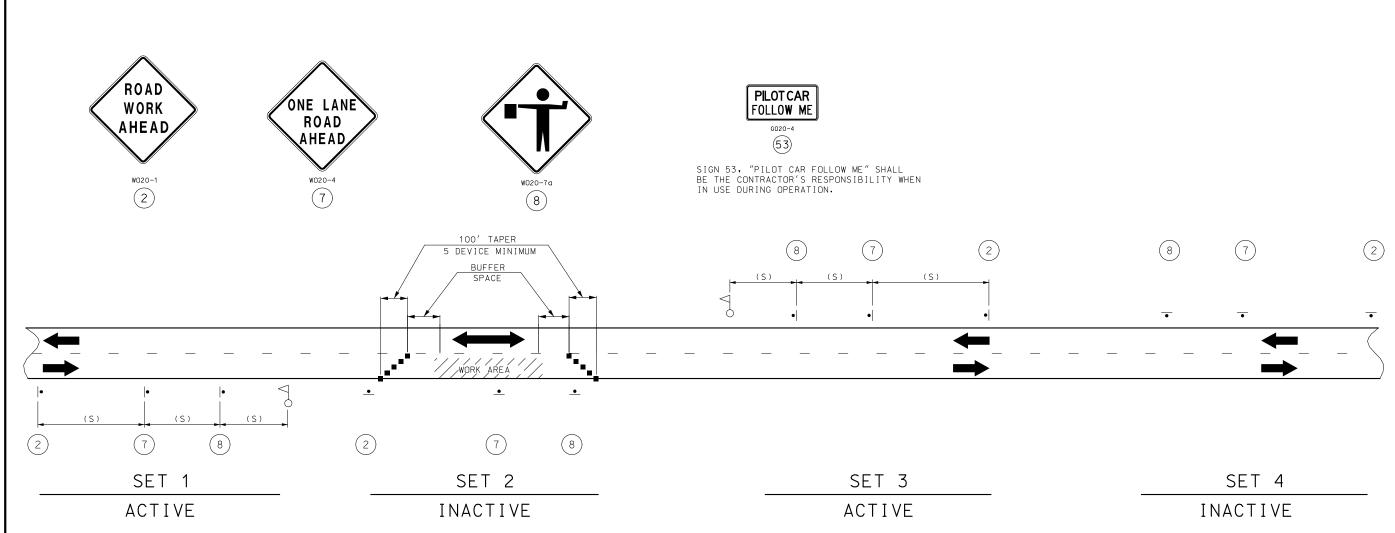
WORK ZONE

NO PHONE
ZONE

CONST-8



TRAFFIC CONTROL SHEET 1 OF 5



THIS PLAN IS FOR DAYLIGHT FLAGGING OPERATIONS ONLY. WHEN NIGHT WORK IS REQUIRED, OR OTHERWISE ALLOWED BY THE ENGINEER, WORK ZONE LIGHTING SHALL BE PROVIDED IN ACCORDANCE WITH SEC 616.5.2.

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

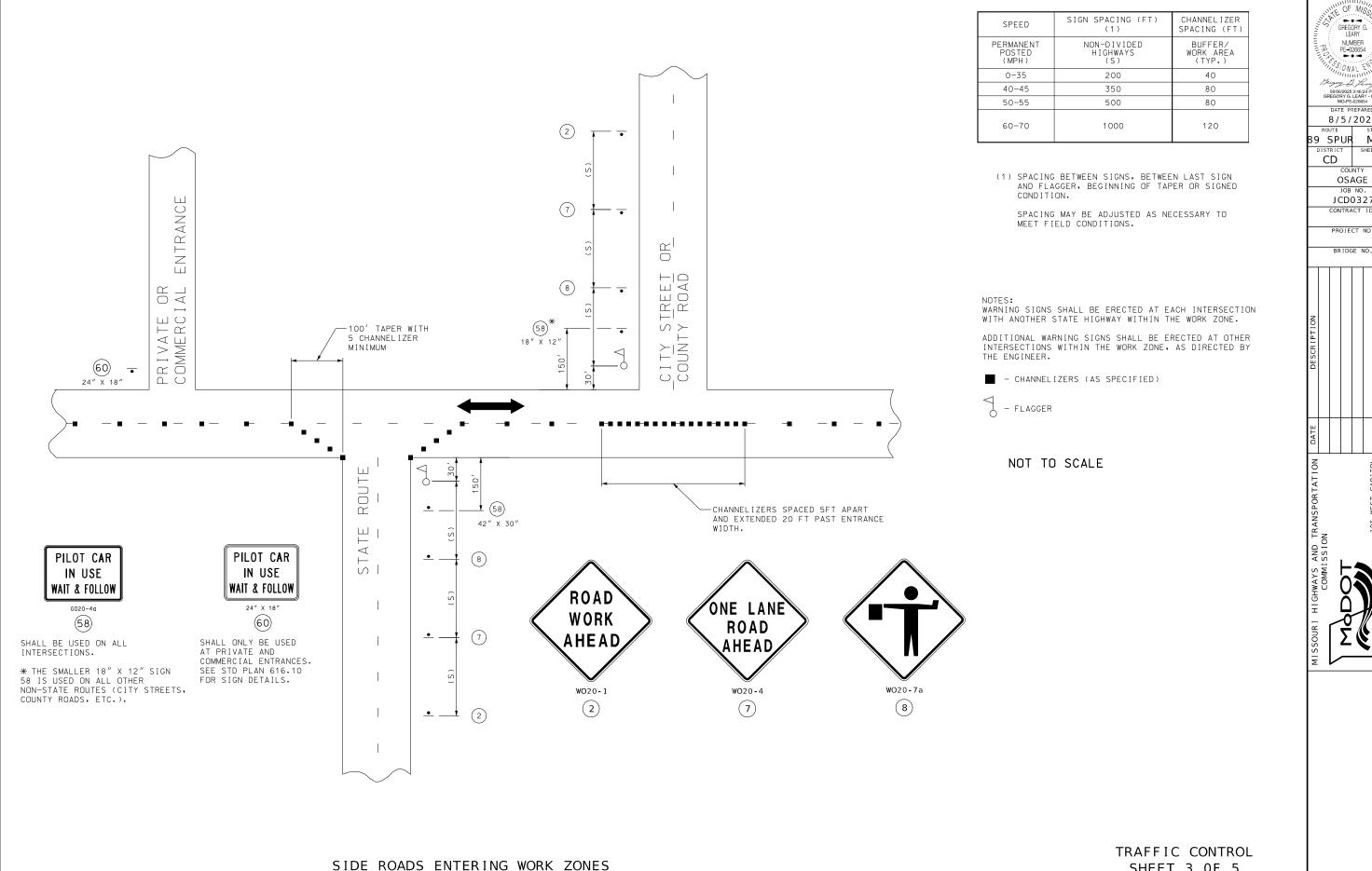
SPEED	SIGN SPACING (FT) (1)	BUFFER SPACE
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	LENGTH (FT)
0-35	200	250
40-45	350	360
50-55	500	495
60-70	1000	730

(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.

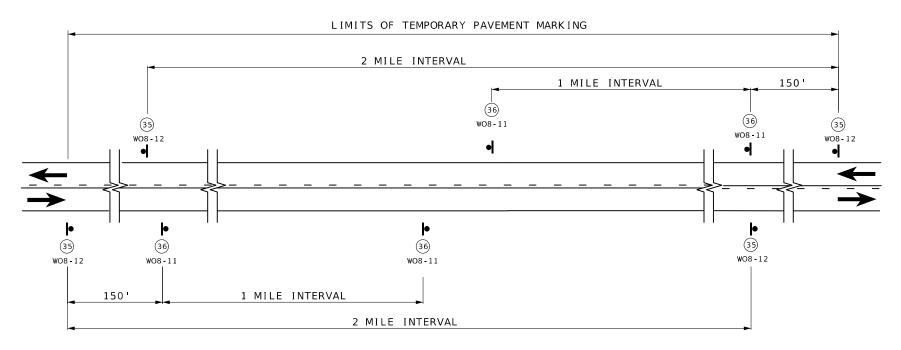
TRAFFIC CONTROL SHEET 2 OF 5

GREGORY G.
LEARY PE-U O8/06/2025 3-47-49 PM GREGORY G. LEARY - CIVIL MO-PE-026654 DATE PREPARED 8/5/2025 9 SPUR MO CD 7 OSAGE JCD0327 CONTRACT ID. PROJECT NO. BRIDGE NO.

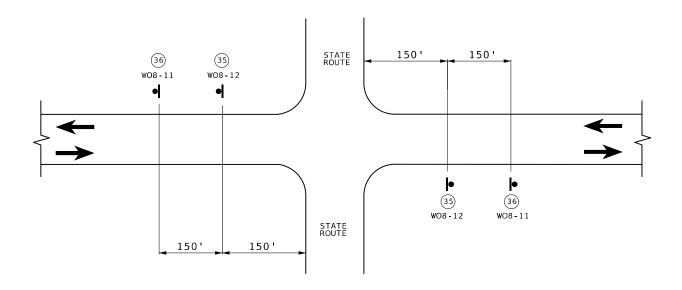


GREGORY G. LEARY PE-Dau PE-Dau OB:06/2025 3:46:24 PM GREGORY G. LEARY - CIVIL MO-PE-026654 8/5/2025 9 SPUR MO SHEET NO 8 OSAGE JOB NO. JCD0327 CONTRACT ID. PROJECT NO.

SHEET 3 OF 5



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.

GREGORY G. LEARY NUMBER PE-026654 8/5/2025 9 SPUR MO CD 9 OSAGE JOB NO.
JCD0327 CONTRACT ID. PROJECT NO. BRIDGE NO.

TRAFFIC CONTROL SHEET 4 OF 5

