

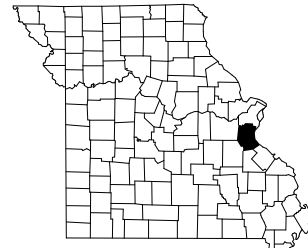
**DESIGN DESIGNATION**

A.A.D.T. - 2024 = 9997  
 A.A.D.T. - 2044 = 12077  
 D.H.V. = 9%  
 T = 5.1%  
 V = 45 M.P.H.  
 D = 43%NB, 57%SB

FUNCTIONAL CLASSIFICATION- PRINCIPAL ARTERIAL MAJOR ROUTE

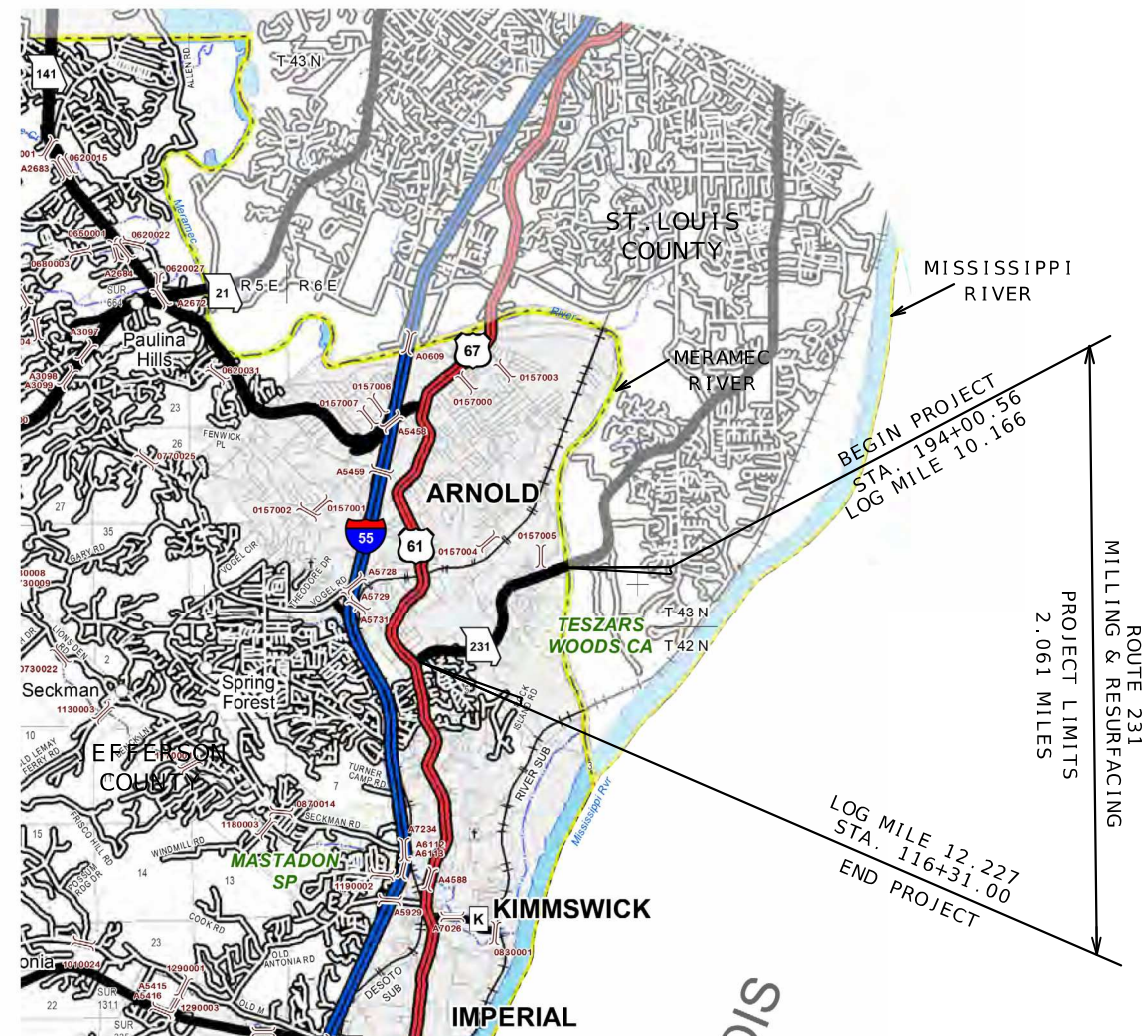
**NO RIGHT-OF-WAY ACQUISITION**

# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION PLANS FOR PROPOSED STATE HIGHWAY JEFFERSON COUNTY



KEY MAP  
 LOCATION OF JEFFERSON COUNTY

**DISCLAIMER**  
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**CONVENTIONAL SYMBOLS  
 (USED IN PLANS)**

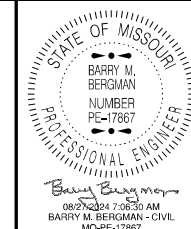
	EXISTING	NEW
BUILDINGS AND STRUCTURES	[Symbol]	[Symbol]
GUARD RAIL	[Symbol]	[Symbol]
GUARD CABLE	[Symbol]	[Symbol]
CONCRETE RIGHT-OF-WAY MARKER	[Symbol]	[Symbol]
STEEL RIGHT-OF-WAY MARKER	[Symbol]	[Symbol]
LOCATION SURVEY MARKER	[Symbol]	[Symbol]
UTILITIES		
FIBER OPTICS	-FO-	-FO-
OVERHEAD CABLE TV	-OTV-	-OTV-
UNDERGROUND CABLE TV	-UTV-	-UTV-
OVERHEAD TELEPHONE	-OT-	-OT-
UNDERGROUND TELEPHONE	-UT-	-UT-
OVERHEAD POWER	-OE-	-OE-
UNDERGROUND POWER	-UE-	-UE-
SANITARY SEWER	-S-	-S-
STORM SEWER	-SS-	-SS-
GAS	-G-	-G-
WATER	-W-	-W-
MANHOLE	[Symbol]	[Symbol]
FIRE HYDRANT	[Symbol]	[Symbol]
WATER VALVE	[Symbol]	[Symbol]
WATER METER	[Symbol]	[Symbol]
DROP INLET	[Symbol]	[Symbol]
DITCH BLOCK	[Symbol]	[Symbol]
GROUND MOUNTED SIGN	[Symbol]	[Symbol]
LIGHT POLE	[Symbol]	[Symbol]
H-FRAME POWER POLE	[Symbol]	[Symbol]
TELEPHONE PEDESTAL	[Symbol]	[Symbol]
FENCE	[Symbol]	[Symbol]
CHAIN LINK	[Symbol]	[Symbol]
WOVEN WIRE	[Symbol]	[Symbol]
GATE POST	[Symbol]	[Symbol]
BENCHMARK	[Symbol]	[Symbol]

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

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) (2 SHEETS)	2
QUANTITIES (QU) (XX SHEETS)	3
PLAN-SHEET (PL)	4-12
COORDINATE POINTS (CP)	13
TRAFFIC CONTROL SHEETS (TC)	14-18
PAVEMENT MARKING (PM)	19-27
SIGNING & POP DETAIL SHEET (SN)	28-29



DATE PREPARED  
 8/27/2024  
 ROUTE 231 STATE MO  
 DISTRICT SL SHEET NO. 1  
 COUNTY JEFFERSON  
 JOB NO. JSL0042  
 CONTRACT ID.

PROJECT NO.  
 BRIDGE NO. 1

DESCRIPTION	DATE

**LENGTH OF PROJECT**

BEGINNING OF PROJECT	STA. 194 + 00.56
END OF PROJECT	STA. 116 + 31.00
APPARENT LENGTH	-7769.56 FEET
EQUATIONS AND EXCEPTIONS:	
STA. 204+53.31 BK = STA. 18+00.00 AHD (+18653.31)	

TOTAL CORRECTIONS	+18653.31 FEET
NET LENGTH OF PROJECT	10883.75 FEET
STATE LENGTH	2.061 MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0 ACRES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
  
 105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)

TITLE SHEET



DATE PREPARED  
9/25/2024

ROUTE 231 STATE MO

DISTRICT SL SHEET NO. 2

COUNTY JEFFERSON

JOB NO. JSL0042

CONTRACT ID.

PROJECT NO.

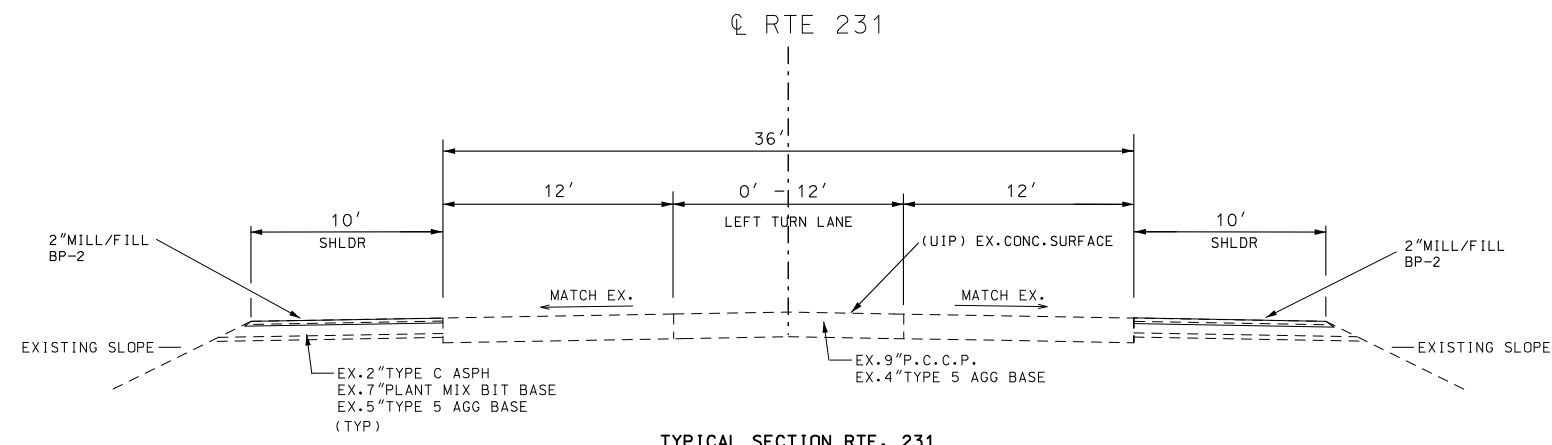
BRIDGE NO.

DESCRIPTION

DATE

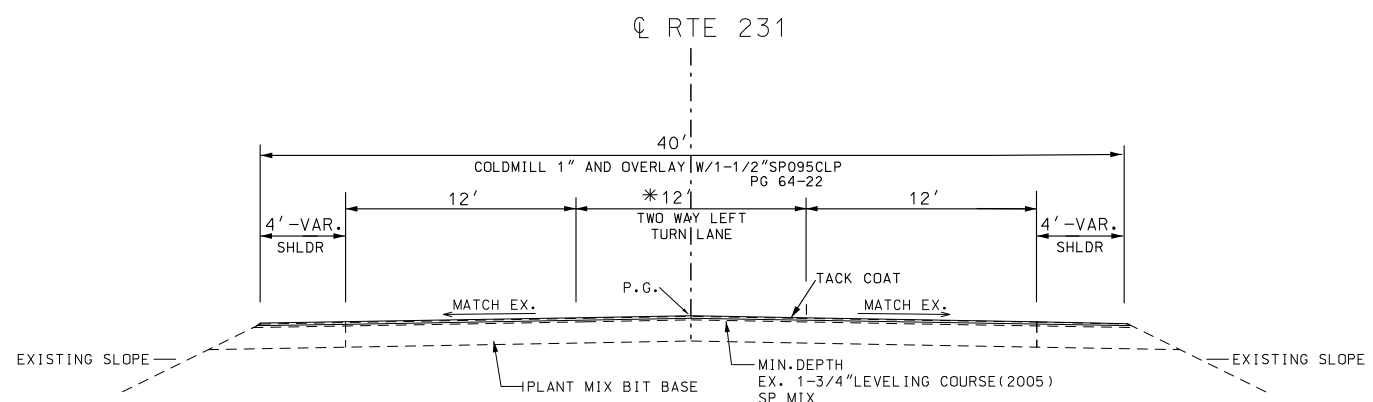
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
105 WEST CAPITOL JEFFERSON CITY, MO 65102  
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TYPICAL SECTION 1 OF 2

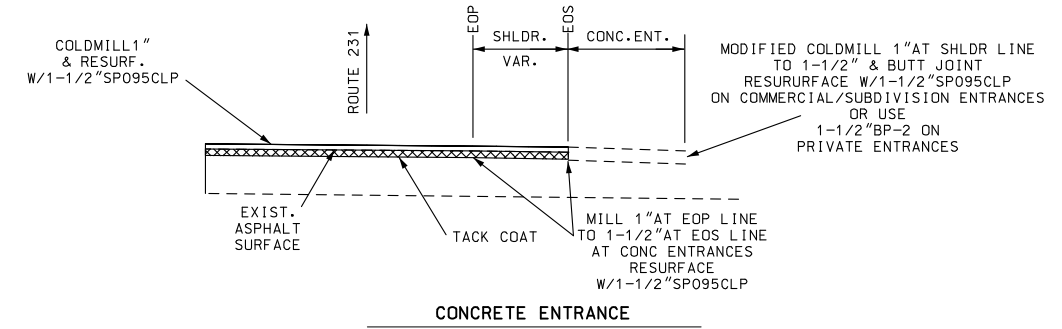
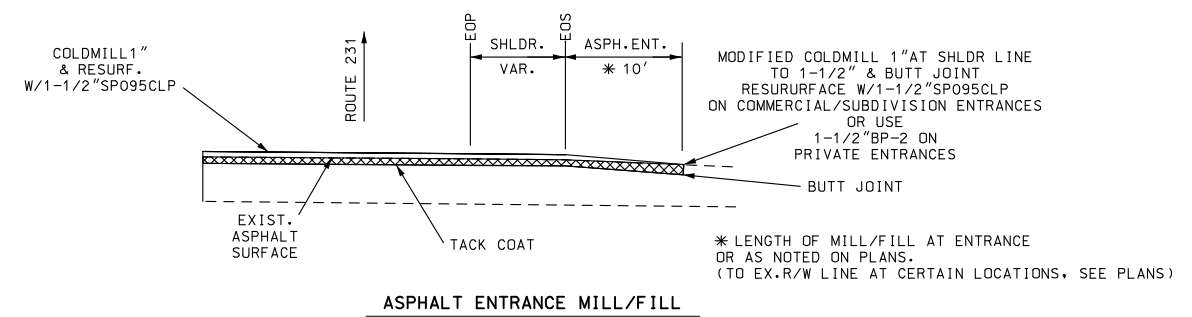
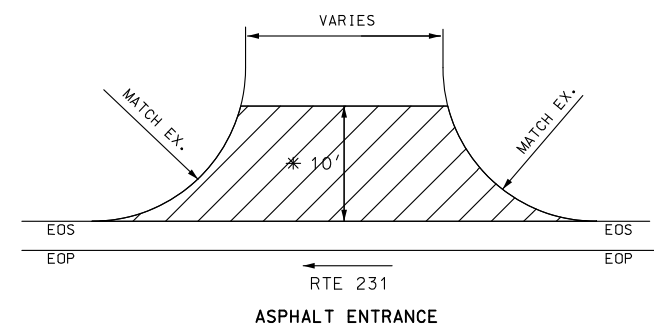


TYPICAL SECTION RTE. 231  
STA. 194+59.2 TO 204+53.31 BK.=  
STA. 18+00.0 AHD. TO 19+92.0  
(3 LANE EX. CONCRETE SECTION)

NOTE: PROJECT BEGINS AT 194+00.56, SHLDR WORK BEGINS AT 194+59.2



TYPICAL SECTION RTE. 231  
STA. 19+92.0 TO 38+40.0 \* 35+70 TO 38+40  
TAPERS FROM 12' - 0'



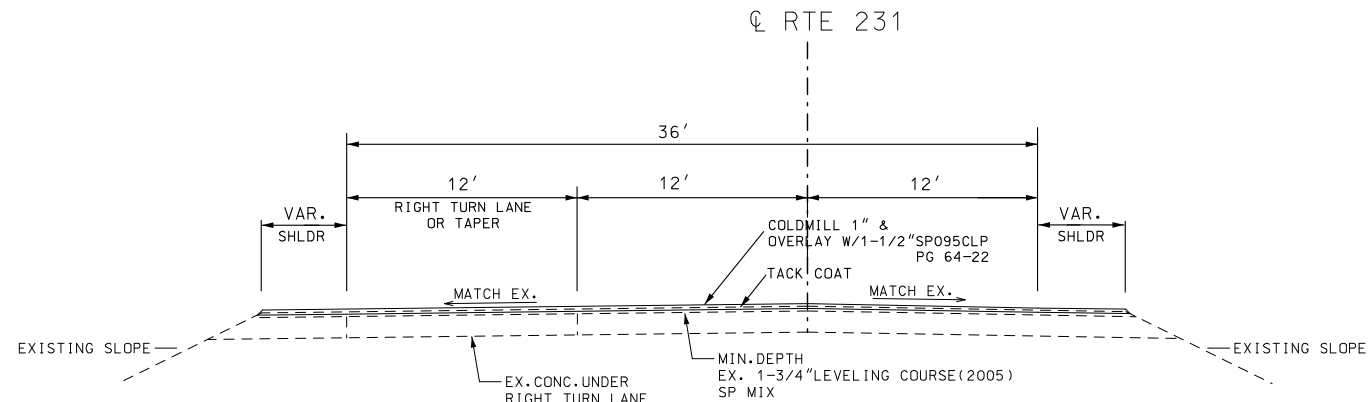
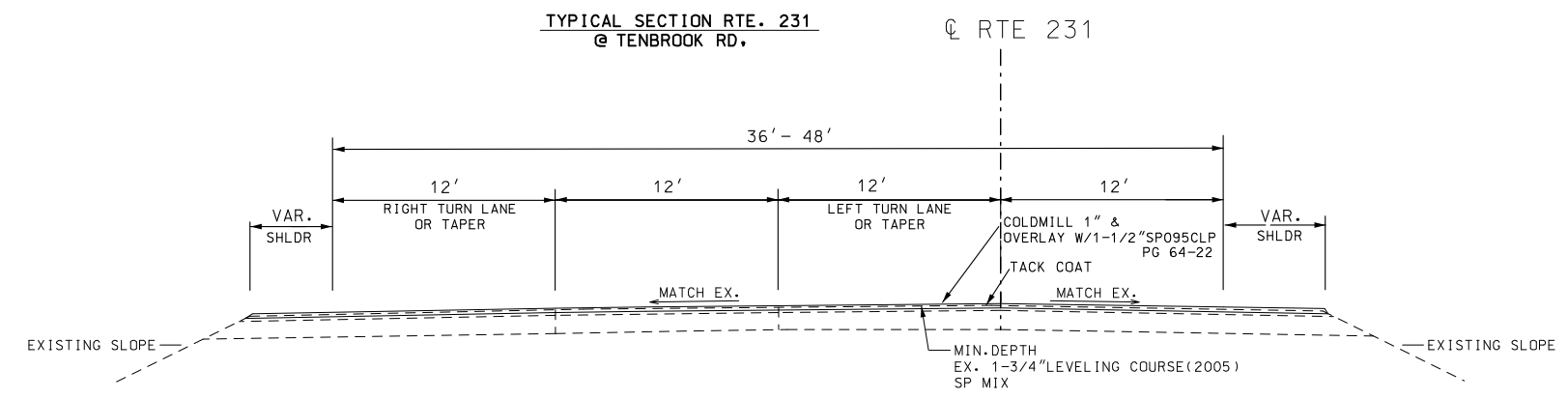
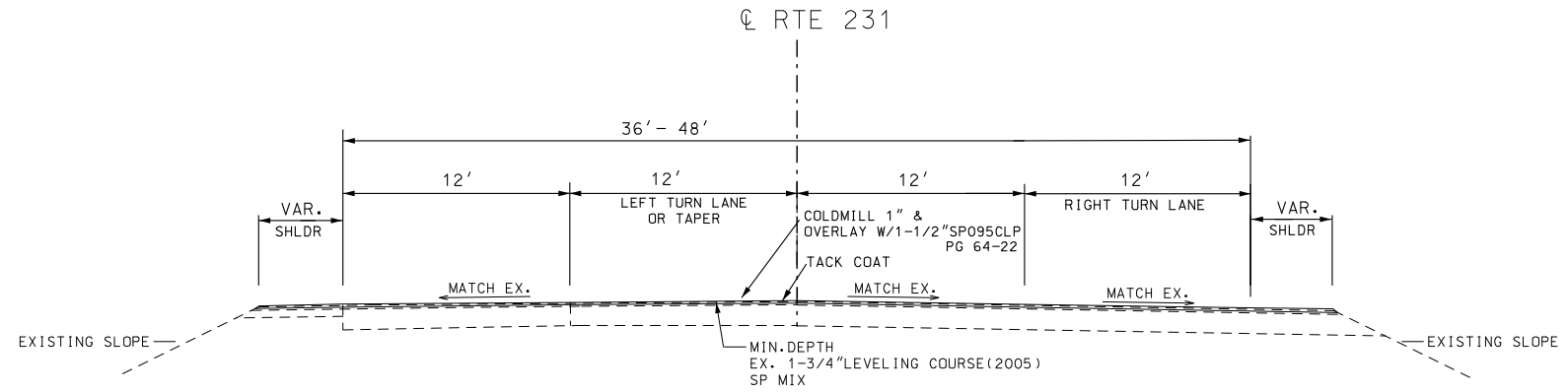
NOT TO SCALE

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APPLICATION RATES:	
SP095CLP (PG64-22)	= 1.90 TONS PER SQYD
BP-2 (PG64-22)	= 1.96 TONS PER SQYD
TACK COAT	= 0.10 GAL PER SQYD

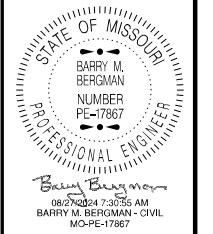
TYPICAL SECTION RTE. 231  
38+40.0 TO 116+31.0  
(2 LANE SECTION)

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TYPICAL SECTION RTE. 231  
 @ KLEINSCHMIDT DR, APPLE VALLEY DR & CAR LOT  
 (3 LANE SECTION)

NOT TO SCALE



DATE PREPARED 8/27/2024	
ROUTE 231	STATE MO
DISTRICT SL	SHEET NO. 2
COUNTY JEFFERSON	
JOB NO. JSL0042	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TYPICAL SECTION  
 2 OF 2

MOBILIZATION - TOTAL = 1.0 LUMP SUM

CONTRACTOR FURNISHED SURVEY & STAKING - TOTAL = 1.0 LUMP SUM

MODOT ITS ASSETS RELOCATION - TOTAL = 200 L.F.

LOOP DETECTOR FOR 231 AT 61/67 SIGNAL

SHEET NO.	ROADWAY	LOCATION	BEGIN STATION	END STATION	CABLE LOOP DETECTOR IN-DUCT (1C-#14) (LF)	CABLE LOOP DETECTOR LEAD-IN (2C#14) (LF)	CONDUIT 1 IN. LOOP DETECTOR WITH TRACER WIRE (LF)	REMARKS
12	231	IN LEFT TURN LANE TO 61-67	115+83	116+13	320.0	60.0	24.0	
TOTAL					320.0	60.0	24.0	
PAY TOTAL					320	60	24	

REMOVAL OF IMPROVEMENTS

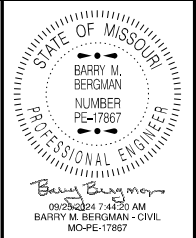
SHEET	RDWY	STATION	STATION	LOCATION	DESCRIPTION	QUANTITY (LF)	QUANTITY (SY)	QUANTITY (EACH)	REMARKS
4	231	194+22.5	195+91	LT OF CL	GUARDRAIL	95		1 BAS, 1 CET	95' OF EX.GR., 1 BRIDGE APP SECTION, 1 CET
4	231	197+95	201+48.00	LT OF CL	GUARDRAIL	250		2 CET'S	250' OF EX.GR., 2 CET'S
4	231	194+13	201+02	RT OF CL	GUARDRAIL	604		1 BAS, 1 CET	604' OF EX.GR., 1 BRIDGE APP SECTION, 1 CET
4	231	197+35		LT OF CL	STOP SIGN & POST			1	STOP SIGN & POST
4	231	202+77		LT OF CL	STOP SIGN			1	STOP SIGN
5	231	20+79		RT OF CL	STOP SIGN & POST			1	STOP SIGN & POST
5	231	23+29		RT OF CL	STOP SIGN & POST			1	STOP SIGN & POST
5	231	25+93		RT OF CL	STOP SIGN & POST			1	STOP SIGN & POST
5	231	26+51		LT OF CL	STOP SIGN			1	STOP SIGN
5	231	32+87		RT OF CL	STOP SIGN & POST			1	STOP SIGN & POST
6	231	33+55		LT OF CL	STOP SIGN & POST			1	STOP SIGN & POST
6	231	37+15		LT OF CL	STOP SIGN			1	STOP SIGN
7	231	59+75	60+47	LT OF CL	GUARDRAIL	20		1 CET	20' OF EX.GR., 1 CET
8	231	60+47	63+40	LT OF CL	GUARDRAIL	242		1 CET	242' OF EX.GR., 1 CET
8	231	63+42		LT OF CL	STOP SIGN			1	STOP SIGN
8	231	64+20		RT OF CL	STOP SIGN			1	STOP SIGN
8	231	66+70		LT OF CL	STOP SIGN			1	STOP SIGN
8	231	70+41		LT OF CL	STOP SIGN			1	STOP SIGN
9	231	74+37		LT OF CL	STOP SIGN & POST			1	STOP SIGN & POST
9	231	84+51		RT OF CL	STOP SIGN & POST			1	STOP SIGN & POST
9	231	86+52		LT OF CL	STOP SIGN			1	STOP SIGN
10	231	97+78		LT OF CL	STOP SIGN & POST			1	STOP SIGN & POST
10	231	97+58		RT OF CL	STOP SIGN & POST			1	STOP SIGN & POST
11	231	105+84		RT OF CL	STOP SIGN & POST			1	STOP SIGN & POST
11	231	107+73		LT OF CL	STOP SIGN & POST			1	STOP SIGN & POST
11	231	112+17		LT OF CL	STOP SIGN & POST			1	STOP SIGN & POST
PAY TOTAL = 1 LUMP SUM									

GUARDRAIL

PLAN SHEET NO.	ROADWAY	BEGIN STATION	END STATION	LOCATION	(MGS) GUARDRAIL STANDARD POSTS 6'-3" SPACING (LF)	(MASH) CRASHWORTHY TYPE A END TERMINAL (EA)	(MGS) * BRIDGE APPROACH TRANS. SECTION (EA)	SHAPING SLOPES CLASS III (100 FT)	REMARKS
4	231	194+61	195+36	LT	75.0	1	1	1.0	
4	231	198+45	200+96.3	LT	250.0	2		2.0	
4	231	194+50.5	200+52.8	RT	600.0	1	1	1.0	
7 & 8	231	60+27	62+86	LT	262.5	2		2.0	
TOTAL					1187.5	6	2	6	
PAY TOTAL					1188	6	2	6	

\* BRIDGE APPROACH TRANS. SECTIONS START AT APPROXIMATELY 194+23 LT AND 194+12 RT

SUMMARY OF QUANTITIES SHEET 1 OF 4



DATE PREPARED  
9/25/2024  
ROUTE 231 STATE MO  
DISTRICT SL SHEET NO. 3  
COUNTY JEFFERSON  
JOB NO. JSL0042  
CONTRACT ID.  
PROJECT NO.  
BRIDGE NO.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
 105 WEST CAPITOL JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-273-6636)  
 MoDOT

SUMMARY OF QUANTITIES

RESURFACING & COLDMILLING										
PLAN SHEET NO.	RWDY	BEGIN STATION	END STATION	LOCATION	SF AREA FOR RESURFACING AND COLDMILLING (SF)	MAINLINE & SHLDR RESURFACING USING SP095CLP (PG64-22) (TONS)	SHLDR RESURFACING USING BP-2 (PG64-22) (TONS)	COLDMILLING (3"THICK OR LESS) (SY)	TACK COAT (GAL)	REMARKS
4	231	194+59.2	204+53.3	LT OF CL	10887.7		132.0	1209.7	121.0	(EQUATION AT 204+53.3 BK = 18+00 AHD)
4	231	18+00.0	19+91.6	LT OF CL	2215.9		26.9	246.2	24.6	FROM EQ.TO END OF EX.CONC MAINLINE PVMT
4	231	194+70	204+53.3	RT OF CL	9491.1		115.1	1054.6	105.5	BEG TO EQUATION AND SHLDRS AT ARNOLD TENBROOK RD
4	231	18+00.0	19+91.6	RT OF CL	2078.4		25.2	230.9	23.1	FROM EQ.TO END OF EX.CONC MAINLINE PVMT
4	231	19+91.6	19+97.0	BOTH SIDES OF CL	374.5	3.3		41.6	4.2	MAINLINE & SHLDR
5	231	19+97.0	33+47.0	BOTH SIDES OF CL	60706.0	534.0		6745.1	674.5	MAINLINE & SHLDR
6	231	33+47.0	46+97.0	BOTH SIDES OF CL	50547.4	444.6		5616.4	561.6	MAINLINE & SHLDR
7	231	46+97.0	60+47.0	BOTH SIDES OF CL	47283.5	415.9		5253.7	525.4	MAINLINE & SHLDR
8	231	60+47.0	73+97.0	BOTH SIDES OF CL	71268.6	626.9		7918.7	791.9	MAINLINE & SHLDR
9	231	73+97.0	87+47.0	BOTH SIDES OF CL	46520.1	409.2		5168.9	516.9	MAINLINE & SHLDR
10	231	87+47.0	100+97.0	BOTH SIDES OF CL	50279.3	442.3		5586.6	558.7	MAINLINE & SHLDR
11	231	100+97.0	114+47.0	BOTH SIDES OF CL	50730.1	446.2		5636.7	563.7	MAINLINE & SHLDR
12	231	114+47.0	END	BOTH SIDES OF CL	15179.9	133.5		1686.7	168.7	MAINLINE & SHLDR
TOTAL						3455.9	299.2	46395.8	4639.8	
TOTALS FROM ENTRANCE QUANTITIES						147.5	93.8	N/A	296.4	
ADD 5% FOR IRREGULARITIES						180.2	19.7	2319.8	246.8	
PAY TOTAL						3783.6	412.7	48716	5183	

(SEE PLANS FOR LOCATIONS AND TYPICAL SECTIONS FOR DETAIL)  
NOTE: RESURFACING INCLUDES EX.MAILBOX TURNOUTS

PAVEMENT MARKING

PAVEMENT MARKING SHEET NO.	ROADWAY	BEGIN STATION	END STATION	WATERBORNE PVMT MARKING PAINT, TYPE L BEADS			PREFORMED THERMOPLASTIC					* PAVEMENT MARKING REMOVAL (SYMBOLS) (EACH)	REMARKS	
				4"WIDE SOLID YELLOW (LF)	4"WIDE INTERMITTENT YELLOW (LF)	6"WIDE SOLID WHITE (LF)	PAVEMENT MARKING 24"SOLID YELLOW (LF)	PAVEMENT MARKING 24" WHITE (LF)	12" YIELD TEETH (EACH)	PAVEMENT MARKING RT ARROW (EACH)	PAVEMENT MARKING LT ARROW (EACH)			PAVEMENT MARKING WORD (ONLY) (EACH)
1	231	194+00.56	204+53.31 EQ	2918		2586	69	13	10	1	4	2	22	
1	231	18+00 EQ	19+97	560	40	400				1	1			
2	231	19+97	33+47	2700	675	2524				3	3			
3	231	33+47	46+97	3370	75	2561				1	1			
4	231	46+97	60+47	2868		2700								
5	231	60+47	73+97	3582		3121		36		4	4			
6	231	73+97	87+47	2700		2579								
7	231	87+47	100+97	2700		2751				4				
8	231	100+97	114+47	2496		2903		24		1				
9	231	114+47	592+71.0	350		501		12		2	2			
TOTAL				24244	790	22626	69	85	10	17	15	2	22	
PAY TOTAL				25034		22626	69	85	10	32	15	2	22	

DOUBLE SOLID YELLOW ON THE PAVEMENT MARKING PLANS CONSISTS OF 2- 4"SOLID YELLOW

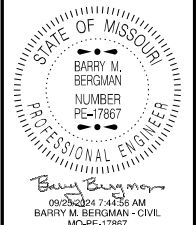
\* PAVEMENT MARKING REMOVAL (SYMBOLS) CONSIST OF 6 LEFT/RIGHT TURN ARROWS, 2 ONLY SYMBOLS, 2-24"STOP BARS,6 EX.YIELD TEETH AND 6 - 24"WIDE YELLOW CHEVRONS

FULL DEPTH PAVEMENT REPAIR

RTE	BEGINNING STATION	ENDING STATION	LANE LOCATION	REPAIR REPAIR SIZE	NUMBER OF REPAIR LOCATIONS	FULL DEPTH SF	FULL DEPTH PAVEMENT REPAIRS						REMARKS		
							REMOVAL OF CONC. MATERIAL FOR FULL-DEPTH PVMT REPAIR (SY)	FURNISH & PLACE CONC. MATERIAL FOR FULL-DEPTH PVMT REPAIR (SY)	FULL DEPTH SAW CUT (LF)	SUBGRADE COMPACTION (FOR PVMT REPAIR) (SY)	TYPE 1 OR V AGGR. FOR BASE (FOR PVMT REPAIR) (SY)	DOWEL BAR DRILL,FURN & INSTALL (FOR PVMT REPAIR) (EACH)		DOWEL BAR FURN & INSTALL W/BASKETS (FOR PVMT REPAIR) (EACH)	TIE BAR DRILLING,FURN & INSTALL (FOR PVMT REPAIR) (EACH)
231	194+59.2	204+53.31 EQ BK	BOTH	6'X12'	25	1800	200.0	200.0	900.0	20.0	20.0	500.0		EXPOSED CONC SECTION S/O RIVER BRIDGE	
231	18+00.0 AHD	19+91.5	BOTH	6'X12'	INCLUDED ABOVE	INCLUDED ABOVE									
231	65+80	66+55	NB THRU	13'X75'	1	975	108.3	108.3	241.0	10.8	10.8	20.0	40.0	40.0	NB 231 LANE @ ROCKWOOD DRIVE
TOTALS							308.3	308.3	1141.0	30.8	30.8	520.0	40.0	40.0	
PAY TOTALS							*	308.3	1141	31	31	520	40	40	

\*NO DIRECY PAY - FOR INFO ONLY

SUMMARY OF QUANTITIES  
SHEET 2 OF 4



DATE PREPARED  
9/25/2024  
ROUTE 231 STATE MO  
DISTRICT SL SHEET NO. 3

COUNTY  
JEFFERSON  
JOB NO.  
JSL0042  
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

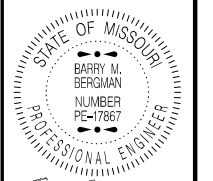
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

SUMMARY OF QUANTITIES

ENTRANCES

SHEET NO.	ROADWAY	LOCATION	BEGIN STATION	END STATION	SP095CLP ENTRANCE AREA (SF)	BP-2 ENTRANCE AREA (SF)	COMM & SIDE ROAD ENTRANCE SP095CLP (TONS)	PRIVATE ENTRANCE BP-2 (TONS)	GRAVEL W/AVERAGE OF 1 IN. THICK (SY)	TACK COAT (GAL)	MODIFIED COLDMILLING DEPTH TRANS. (SY)	REMARKS
4	231	LT OF CL	197+12	197+79		500.0		6.1		5.6	55.6	USE 2" MILL/FILL W/BP-2 @ ENTRANCE
5	231	LT OF CL	18+66	19+22		560.0		6.8		6.2	62.2	USE 2" MILL/FILL W/BP-2 @ ENTRANCE
5	231	LT OF CL	20+47	20+85		390.0		3.5		4.3	43.3	
5	231	LT OF CL	21+06	21+54	450.0		4.0			5.0	50.0	
5	231	LT OF CL	22+12	22+60	460.0		4.0			5.1	51.1	
5	231	LT OF CL	25+13	25+56	370.0		3.3			4.1	41.1	
5	231	LT OF CL	25+88	26+36	370.0		3.3			4.1	41.1	
5	231	LT OF CL	26+36	27+20	600.0		5.3			6.7	66.7	CAUSEWAY DRIVE
5	231	LT OF CL	31+06	31+20		110.0		1.0		1.2	12.2	
5	231	RT OF CL	20+17	20+75	940.0		8.3			10.4	104.4	LAKEVIEW CROSSING
5	231	RT OF CL	22+21	22+44		210.0		1.9		2.3	23.3	
5	231	RT OF CL	23+00	23+27	250.0		2.2			2.8	27.8	GLENDIA DRIVE
5	231	RT OF CL	25+64	25+90	270.0		2.4			3.0	30.0	NORDEEN DRIVE
5	231	RT OF CL	27+09	27+51		410.0		3.7		4.6	45.6	
5	231	RT OF CL	28+17	28+36		240.0		2.2		2.7	26.7	
5	231	RT OF CL	28+88	29+02		180.0		1.6		2.0	20.0	
5	231	RT OF CL	29+61	30+56	520.0		4.6			5.8	57.8	
5	231	RT OF CL	31+10	32+10	920.0		8.1			10.2	102.2	
5	231	RT OF CL	32+10	33+10	870.0		7.7			9.7	96.7	N. BAYSHORE PKWY
6	231	LT OF CL	33+47	34+05		380.0		3.3		4.2	42.2	BAYSHORE PKWY
6	231	LT OF CL	35+15	35+72	380.0		3.3			4.2	42.2	BAYSHORE PKWY
6	231	LT OF CL	38+12	38+41		240.0		2.2		2.7	26.7	
6	231	LT OF CL	42+03	42+29		160.0		1.5		1.8	17.8	NEW CONSTRUCTION (GRAVEL?)
6	231	LT OF CL	43+12	43+46		190.0		1.7		2.1	21.1	
6	231	RT OF CL	35+62	35+89		260.0		2.4		2.9	28.9	
6	231	RT OF CL	37+57	37+84		230.0		2.1		2.6	25.6	
6	231	RT OF CL	40+58	40+96		270.0		2.5		3.0	30.0	
6 & 7	231	RT OF CL	46+80	47+46		400.0		3.6		4.4	44.4	
7	231	LT OF CL	53+08	53+43		300.0		2.7		3.3	33.3	
7	231	LT OF CL	54+35	54+61		210.0		1.9		2.3	23.3	
7	231	LT OF CL	59+36	59+76		340.0		3.1		3.8	37.8	
8	231	LT OF CL	70+21	71+06	1122.0		9.9			12.5	124.7	PEACH DRIVE
8	231	LT OF CL	71+55	72+31	490.0		4.3			5.4	54.4	
9	231	LT OF CL	74+25	74+84	480.0		4.2			5.3	53.3	WICKS ROAD
9	231	LT OF CL	76+10	77+09	750.0		6.6			8.3	83.3	
9	231	LT OF CL	77+09	78+10	800.0		7.0			8.9	88.9	
9	231	LT OF CL	78+40	79+01	600.0		5.3			6.7	66.7	
9	231	LT OF CL	79+15	79+73	510.0		4.5			5.7	56.7	
9	231	LT OF CL	83+97	84+30		270.0		2.5		3.0	30.0	
9	231	LT OF CL	86+26	87+47	1700.0		15.0			18.9	188.9	
9	231	RT OF CL	78+05	78+66					23.3			
9	231	RT OF CL	83+78	84+00		140.0		1.3		1.6	15.6	
9	231	RT OF CL	84+05	84+62	440.0		3.9			4.9	48.9	DANA DRIVE
9	231	RT OF CL	86+95	87+42	290.0		2.6			3.2	32.2	LANA LISA HILLS
10	231	LT OF CL	88+54	88+12		200.0		1.8		2.2	22.2	
10	231	LT OF CL	89+09	89+37		180.0		1.6		2.0	20.0	
10	231	LT OF CL	89+58	89+85		270.0		2.5		3.0	30.0	
10	231	LT OF CL	90+36	90+75		340.0		3.1		3.8	37.8	
10	231	LT OF CL	91+57	91+94		310.0		2.8		3.4	34.4	
10	231	RT OF CL	87+47	88+61	640.0		5.6			7.1	71.1	
10	231	RT OF CL	88+84	89+17	290.0		2.6			3.2	32.2	
10	231	RT OF CL	91+00	91+29		250.0		2.3		2.8	27.8	
10	231	RT OF CL	91+50	91+85					20.0			
10	231	RT OF CL	93+12	93+58	360.0		3.2			4.0	40.0	
10	231	RT OF CL	94+84	95+28					22.2			WOULD HAVE TO MAKE ENT ASPH IF MAILBOX TURNOUT ADDED
10	231	RT OF CL	96+66	97+33		750.0		6.8		8.3	83.3	
10	231	RT OF CL	97+33	97+70		330.0		3.0		3.7	36.7	
11	231	LT OF CL	102+50	102+72					22.2			
11	231	LT OF CL	102+76	102+97		160.0		1.5		1.8	17.8	
11	231	LT OF CL	104+71	104+95					20.0			WOULD HAVE TO MAKE ENT ASPH IF MAILBOX TURNOUT ADDED
11	231	LT OF CL	106+25	106+70	250.0		2.2			2.8	27.8	
11	231	LT OF CL	106+90	107+26	200.0		1.8			2.2	22.2	
11	231	LT OF CL	107+69	108+00	170.0		1.5			1.9	18.9	WOULD NEED TO WIDEN SHLDR ABOUT 6" FOR COMPLIANCE
11	231	LT OF CL	108+76	108+86		70.0		0.6		0.8	7.8	
11	231	LT OF CL	110+19	110+40		120.0		1.1		1.3	13.3	
11	231	RT OF CL	101+16	101+48		240.0		2.2		2.7	26.7	
11	231	RT OF CL	102+71	103+15	400.0		3.5			4.4	44.4	
11	231	RT OF CL	103+47	104+36		900.0		8.2		10.0	100.0	
11	231	RT OF CL	105+47	105+83		220.0		2.0		2.4	24.4	
11	231	RT OF CL	110+05	110+60	460.0		4.0			5.1	51.1	
					TOTAL		147.5	93.8	107.7	296.4	2964.6	
					PAY TOTAL		SEE RESURF. QUANTITIES	SEE RESURF. QUANTITIES	108	SEE RESURF. QUANTITIES	2965	

SUMMARY OF QUANTITIES  
SHEET 3 OF 4



DATE PREPARED  
9/25/2024  
ROUTE  
231  
DISTRICT  
SL  
COUNTY  
JEFFERSON  
JOB NO.  
JSL0042  
CONTRACT ID.

SHEET NO.  
3  
BRIDGE NO.

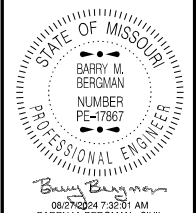
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
  
 105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)

SUMMARY OF QUANTITIES



DATE PREPARED 8/27/2024  
ROUTE 231 STATE MO  
DISTRICT SL SHEET NO. 3  
COUNTY JEFFERSON  
JOB NO. JSL0042  
CONTRACT ID.  
PROJECT NO.  
BRIDGE NO.

Table with columns: SIGN, SIZE, AREA, QTY, TOTAL AREA, QTY RELOC, TOTAL RELOC, SIGN NUM., DESCRIPTION. Includes sections for WARNING SIGNS, REGULATORY SIGNS, and MISCELLANEOUS SIGNS.

Table with columns: SIGN, SIZE, AREA, QTY, TOTAL, RELOC, SIGN NUM., DESCRIPTION. Includes sections for GUIDE SIGNS, REGULATORY SIGNS, and MISCELLANEOUS SIGNS.

Table with columns: ITEM NUMBER, TOTAL QTY, DESCRIPTION. Lists various traffic control items like impact attenuators, channelizers, and signs.

NOTE: PLEASE SEE STANDARD PLANS 616.20 "TEMPORARY TRAFFIC CONTROL PLANS - TWO LANE ROADWAYS" FOR ADDITIONAL TEMPORARY TRAFFIC CONTROL DIRECTION/LAYOUT.

ALL TRAFFIC CONTROL ITEMS ARE INCLUDED IN PAY ITEM 6169901, TEMPORARY TRAFFIC CONTROL, LUMP SUM, UNLESS OTHERWISE NOTED IN THE PLANS. THESE QUANTITIES ARE ONLY AN ESTIMATE AND ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS AND CONTRACTOR'S TRAFFIC CONTROL OPERATIONS.

- NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING SIGNS OR DEVICES
• TEMPORARY TRAFFIC CONTROL = 1 LUMP SUM
• CMS LOCATION TO BE DETERMINED BY THE ENGINEER
\* SIGN AND DEVICE LOCATION WILL BE FIELD VERIFIED AND APPROVED BY ENGINEER
\*\* NOT INCLUDED IN TEMPORARY TRAFFIC CONTROL LUMP SUM BID
\*\*\* TOTAL QUANTITY INDICATES NUMBER OF DEVICES. TO BE PAID FOR AS = 1 LUMP SUM

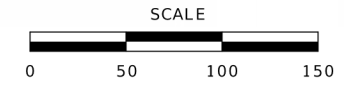
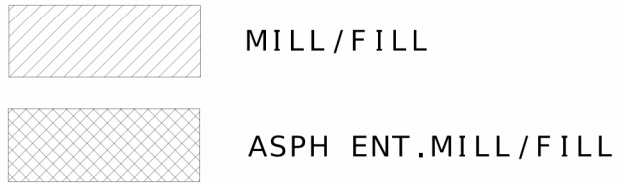
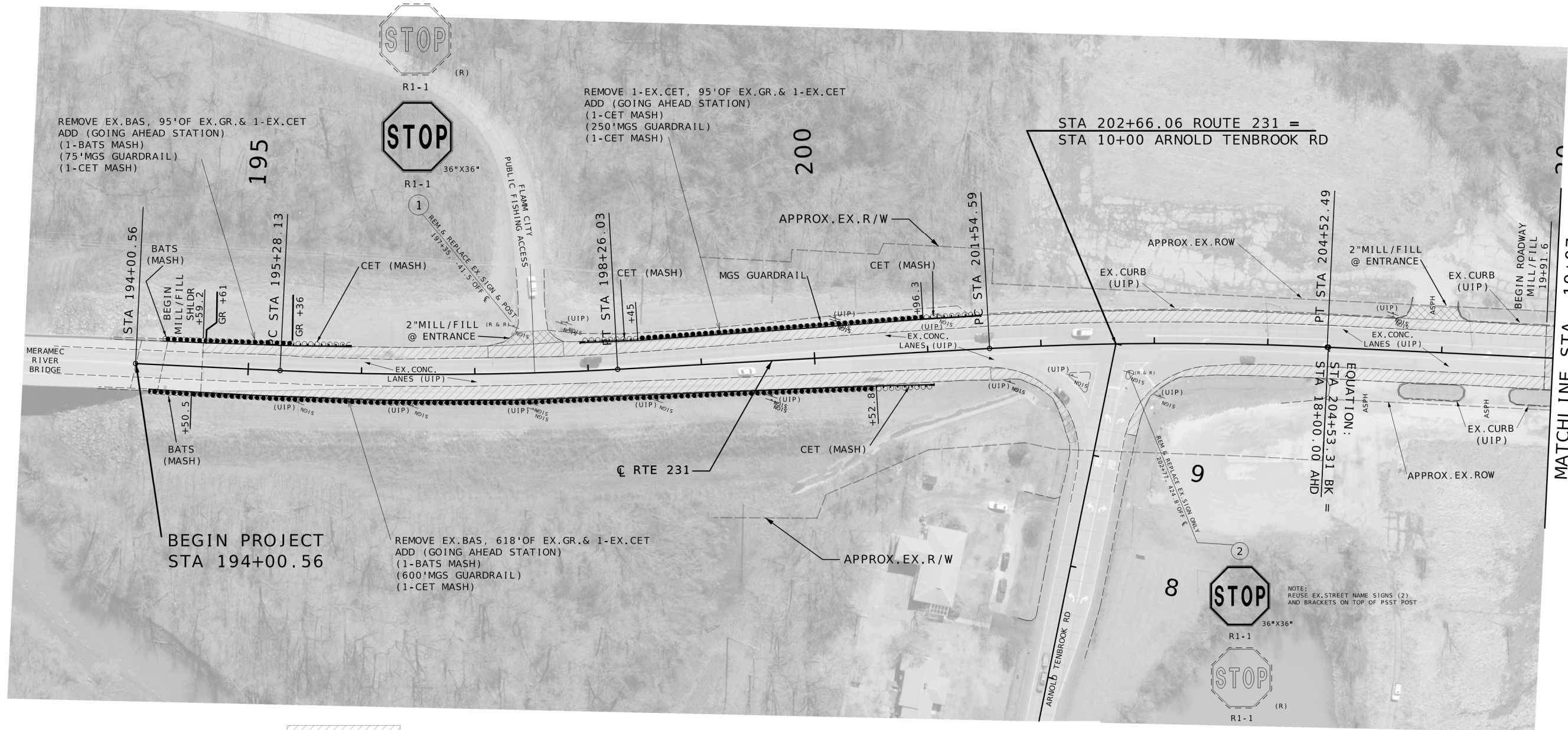
MISC. LUMP SUM TEMPORARY TRAFFIC CONTROL = 1 LUMP SUM

Table with columns: DESCRIPTION, DATE. Lists various traffic control items and their dates.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
MoDOT  
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

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ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.



DATE PREPARED 9/25/2024	
ROUTE 231	STATE MO
DISTRICT SL	SHEET NO. 4
COUNTY JEFFERSON	
JOB NO. JSL0042	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEET



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 8/27/2024

ROUTE STATE  
 231 MO

DISTRICT SHEET NO.  
 SL 5

COUNTY  
 JEFFERSON

JOB NO.  
 JSL0042

CONTRACT ID.

PROJECT NO.

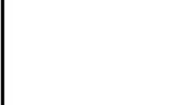
BRIDGE NO.

DATE	DESCRIPTION

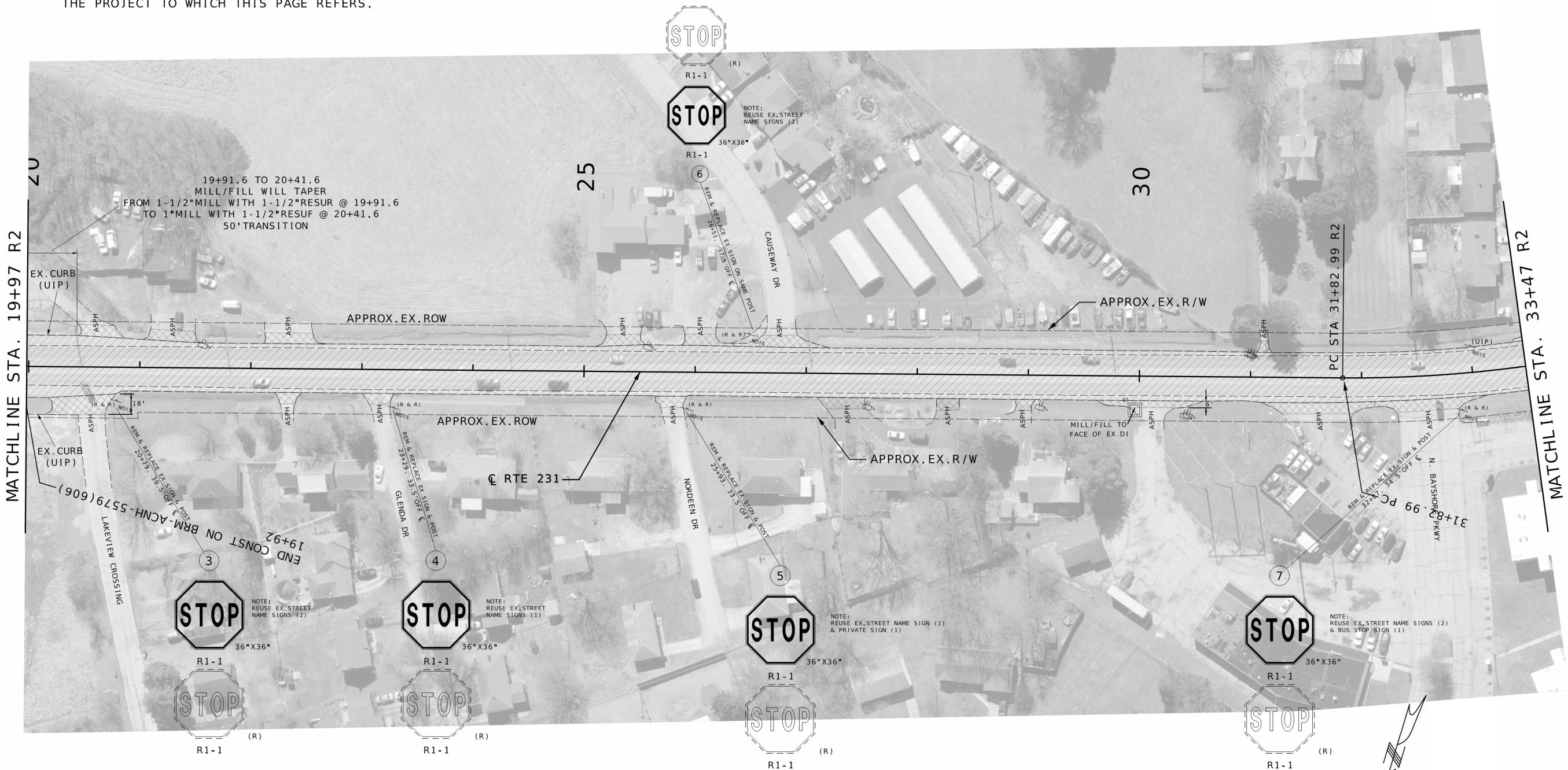
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
 105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)

COMMISSION



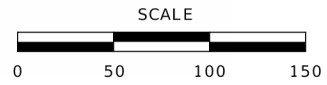
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SCALE



Barry M. Bergman  
08/27/2024 7:51:05 AM  
BARRY M. BERGMAN - CIVIL  
MO#PE-47867

DATE PREPARED  
8/27/2024

ROUTE STATE  
231 MO

DISTRICT SHEET NO.  
SL 6

COUNTY  
JEFFERSON

JOB NO.  
JSL0042

CONTRACT ID.  
PROJECT NO.  
BRIDGE NO.

DESCRIPTION	DATE

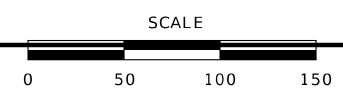
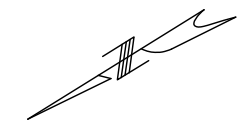
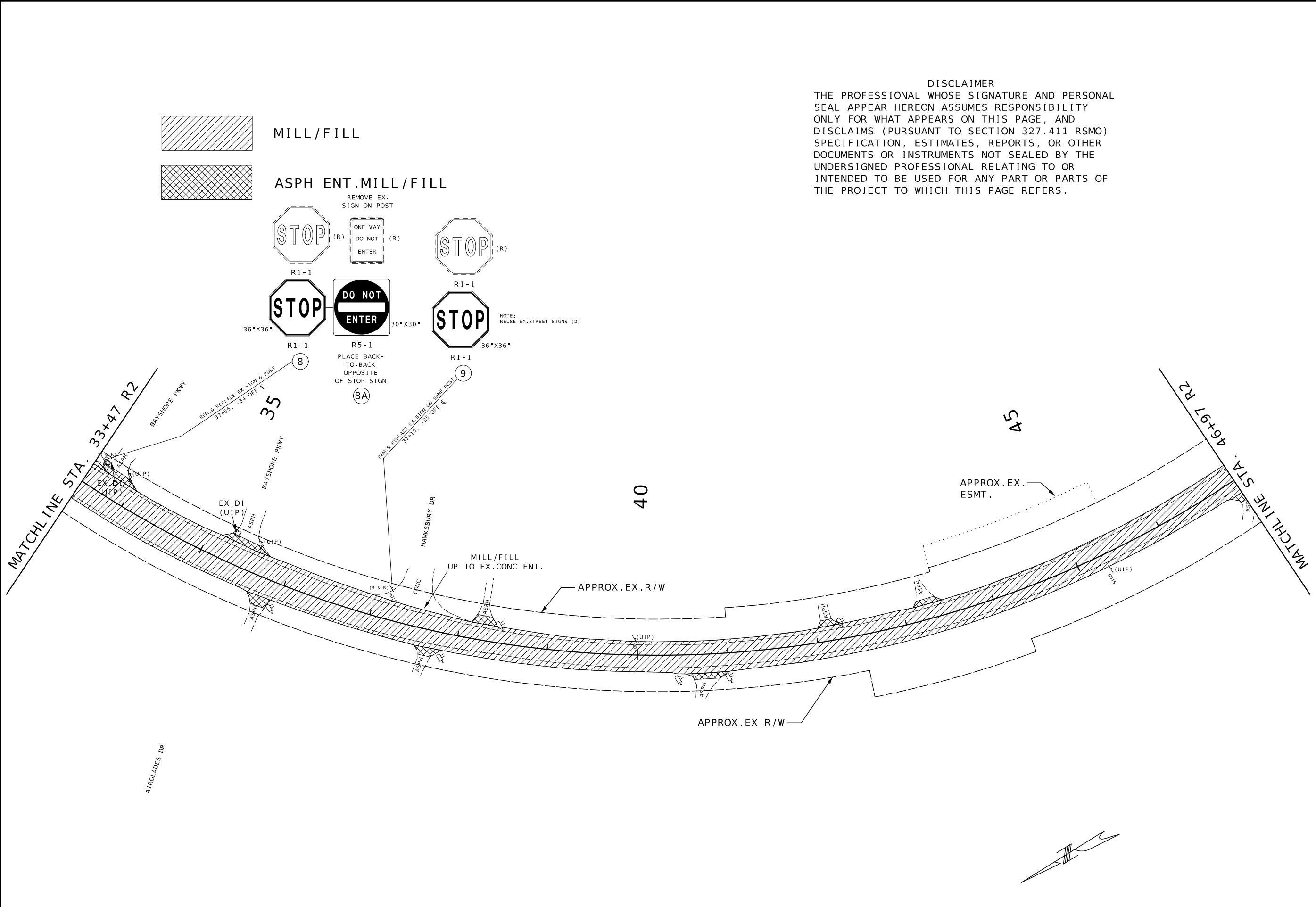
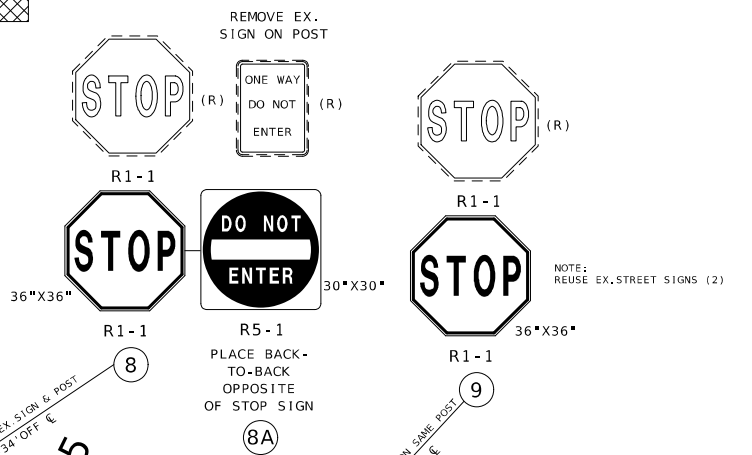
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

BEGIN BIRCH WEST CAPITOL DISTRICT, MO. 65102  
ON FEDERAL TRUCK, MO. 65102  
1-888-ASK-MODOT (1-888-275-6636)

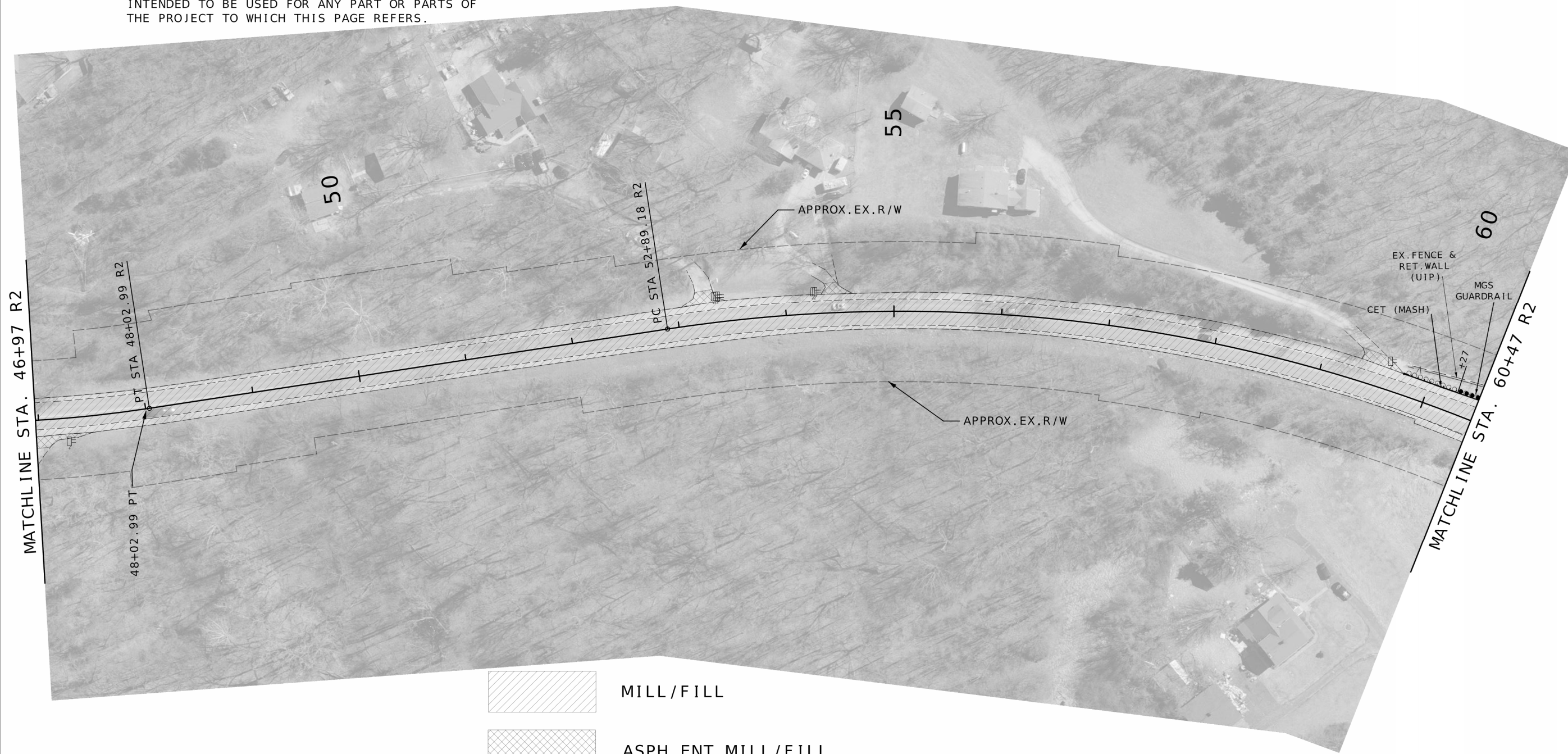
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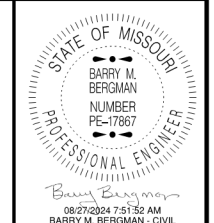
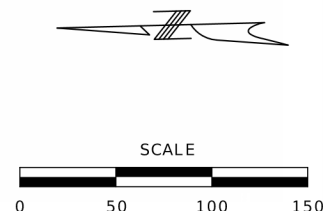
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DATE PREPARED  
**8/27/2024**

ROUTE	STATE
<b>231</b>	<b>MO</b>
DISTRICT	SHEET NO.
<b>SL</b>	<b>7</b>

COUNTY  
**JEFFERSON**

JOB NO.  
**JSL0042**


CONTRACT ID.

PROJECT NO.

BRIDGE NO.

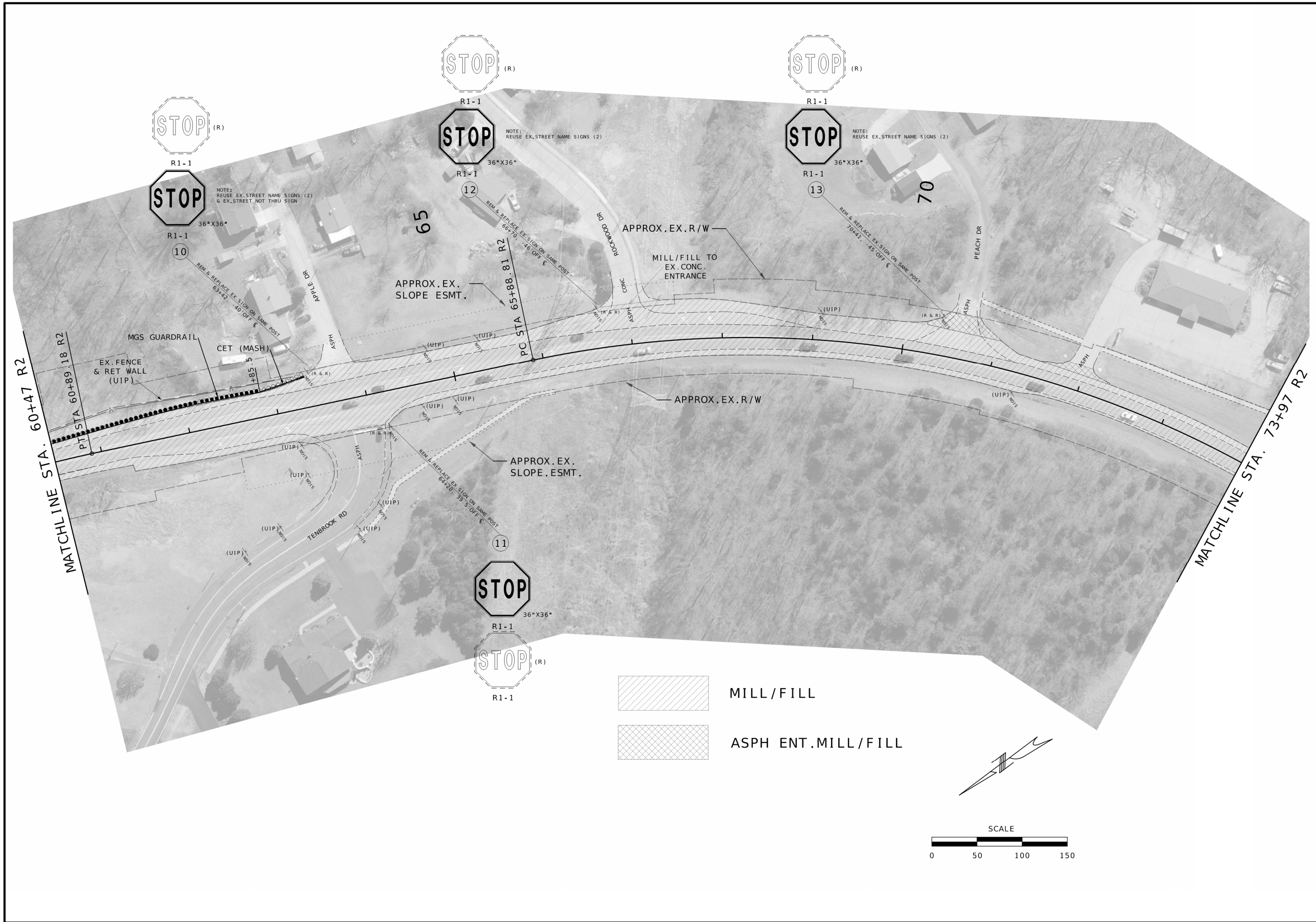
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

PLAN SHEET



DATE PREPARED  
9/25/2024

ROUTE 231 STATE MO  
DISTRICT SL SHEET NO. 8

COUNTY JEFFERSON  
JOB NO. JSL0042  
CONTRACT ID.

PROJECT NO.  
BRIDGE NO.

DATE	DESCRIPTION

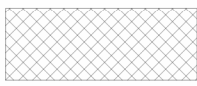
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
  
 105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)

PLAN SHEET

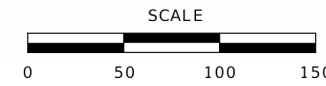
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 ROUTE 231 STATE MO  
 DISTRICT SL SHEET NO. 9  
 COUNTY JEFFERSON  
 JOB NO. JSL0042  
 CONTRACT ID.  
 PROJECT NO.  
 BRIDGE NO.

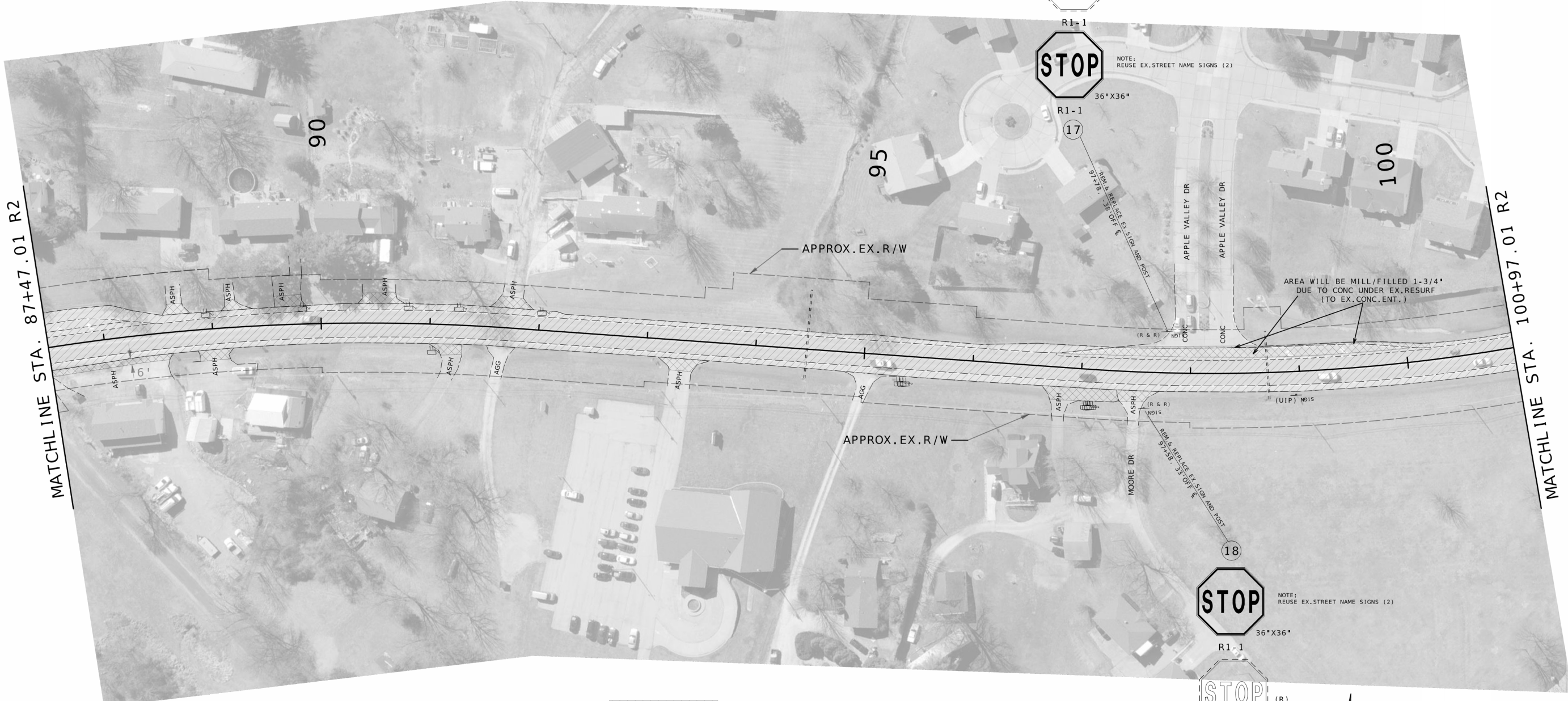
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
 105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)

PLAN SHEET

MATCHLINE STA. 87+47.01 R2

MATCHLINE STA. 100+97.01 R2



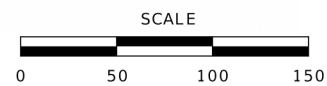
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ROUTE 231 STATE MO  
 DISTRICT SL SHEET NO. 10

COUNTY JEFFERSON  
 JOB NO. JSL0042  
 CONTRACT ID.

PROJECT NO.  
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  

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

PLAN SHEETS

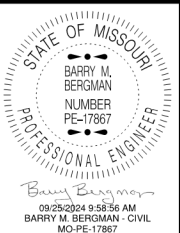
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DATE PREPARED  
 9/25/2024

ROUTE 231 STATE MO

DISTRICT SL SHEET NO. 11

COUNTY JEFFERSON

JOB NO. JSL0042

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEET



DATE PREPARED  
9/25/2024

ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	12

COUNTY  
**JEFFERSON**

JOB NO.  
**JSL0042**

CONTRACT ID.

PROJECT NO.

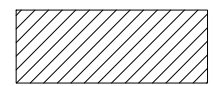
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DATE	DESCRIPTION

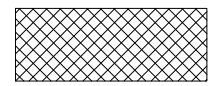
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

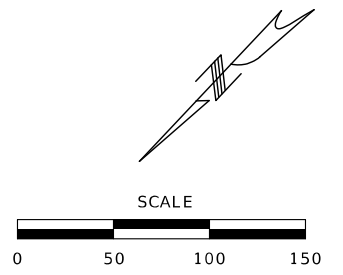
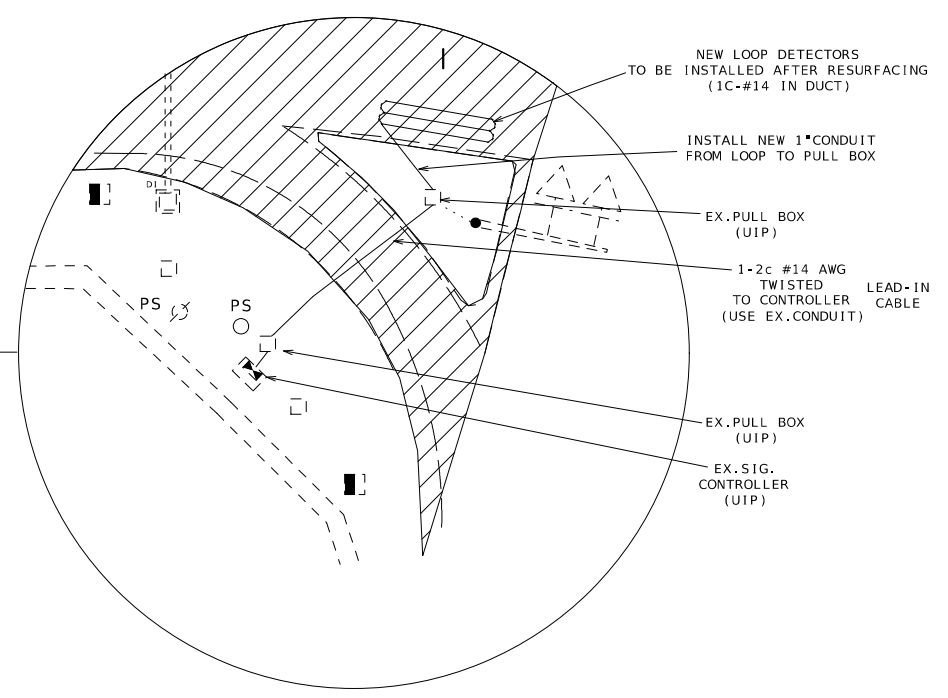
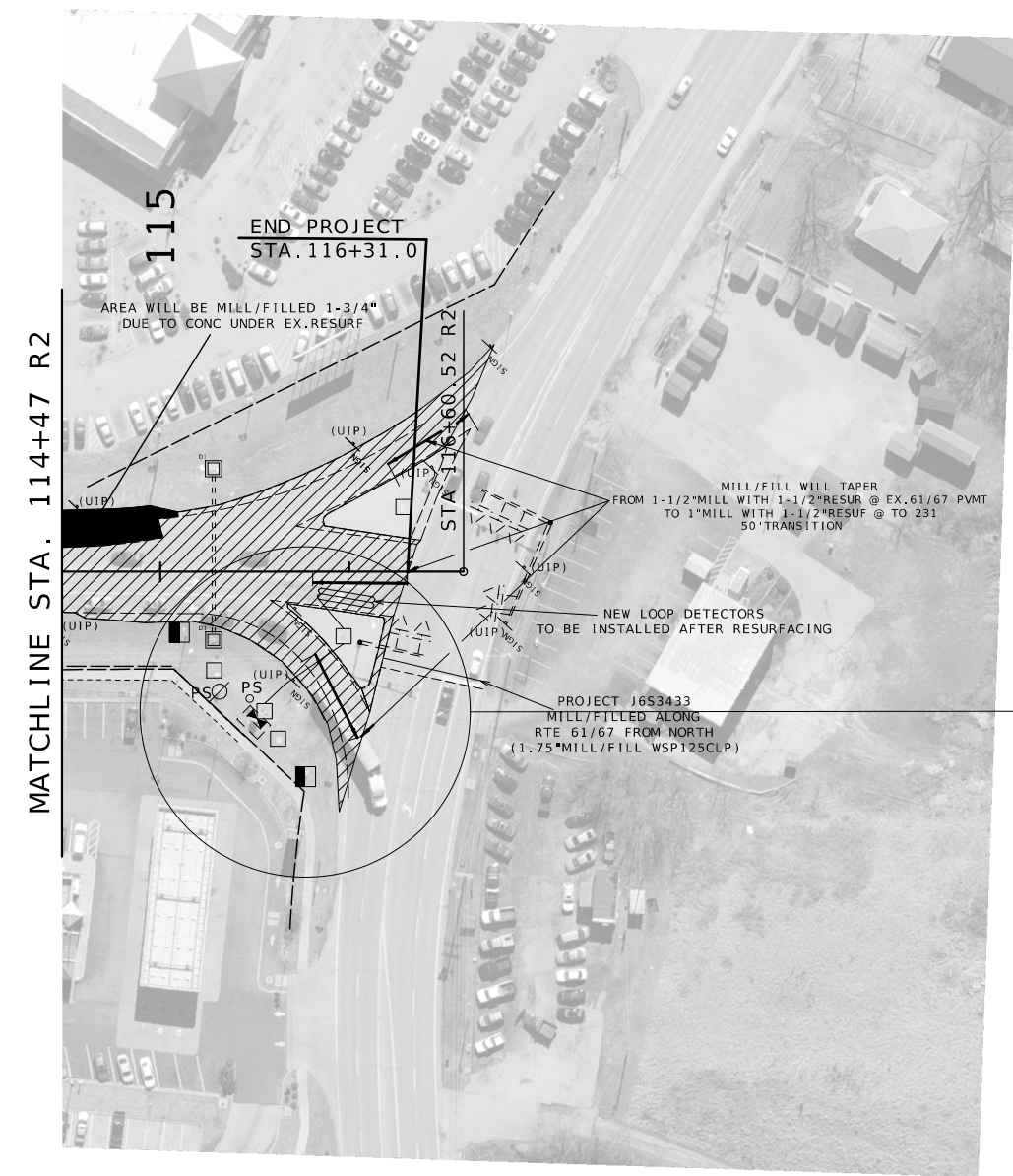
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ALL PROJECT COORDINATES HAVE BEEN PROJECTED FROM THE MISSOURI STATE PLANE COORDINATE (SPC) SYSTEM OF 1983 USING AN AVERAGE PROJECT PROJECTION (GRID TO GROUND) FACTOR. TO GET BACK TO STATE PLANE COORDINATES MULTIPLY THE PROJECT COORDINATES BY THE AVERAGE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

**PROJECT COORDINATE INFORMATION**

COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
HORIZONTAL DATUM	NAD 83 (2011)
VERTICAL DATUM	NAVD 88
GEOID MODEL	XX
ELEVATIONS DETERMINED BY	XX
PROJECT PROJECTION FACTOR	1.00008780

**REFERENCE CONTROL INFORMATION**

COORDINATE SYSTEM	NO COORDINATE SYSTEM OF 1983
CONTROL STATION	MISSOURI CORS
DESIGNATION	XX
CORS_ID	XX
PID	XX
LATITUDE	XX
LONGITUDE	XX
NORTHING (M)	XX
EASTING (M)	XX
ZONE	EAST
PROJECT AVERAGE GRID FACTOR	0.9999122

**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 # \_\_\_  
 N \_\_\_\_\_ X \_\_\_\_\_ = N \_\_\_\_\_  
 E \_\_\_\_\_ X \_\_\_\_\_ = E \_\_\_\_\_

**LINEAR UNIT CONVERSION**

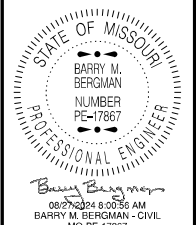
1 METER = 3.280833333 US SURVEY FEET (USFT)

Element	Point Type	Point Number	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	K	P
<b>Alignment Name:</b>		CL232									
<b>Description:</b>											
<b>Style:</b>		AlignmentMoDOT_Baseline_Proposed									
Tangent	START		194+00.560 R1	941514.353	863486.971						
Tangent	PC		195+28.130 R1	941478.792	863364.458						
Arc	PC		195+28.130 R1	941478.792	863364.458						
Arc	HPI		196+77.216 R1	941437.232	863221.282	2864.790	297.903	5.958°	Left		
Arc	CC			938727.561	864163.052						
Arc	PT		198+26.033 R1	941381.036	863083.193						
Tangent	PT		198+26.033 R1	941381.036	863083.193						
Tangent	PC		201+54.593 R1	941257.188	862778.869						
Arc	PC		201+54.593 R1	941257.187	862778.867						
Arc	HPI		203+03.676 R1	941200.991	862640.780	2864.790	297.898	5.958°	Right		
Arc	CC			943910.662	861699.009						
Arc	PT		204+52.491 R1	941159.432	862497.607						
Tangent	PT		204+52.491 R1	941159.432	862497.607						
Back Station			204+53.552 R1	941159.137	862496.588						
Ahead Station			18+00.000 R2								
Tangent	HPI		18+00.000 R2	941159.137	862496.588						
Tangent	HPI		18+00.000 R2	941159.137	862496.588						
Tangent	HPI		31+40.710 R2	940785.396	861209.024						
Tangent	HPI		31+40.710 R2	940785.396	861209.024						
Tangent	PC		31+82.990 R2	940773.610	861168.420						
Arc	PC		31+82.990 R2	940773.610	861168.420						
Arc	HPI		41+61.560 R2	940500.821	860228.640	1146.280	1620.000	80.974°	Left		
Arc	CC			939672.769	861487.961						
Arc	PT		48+02.990 R2	939529.883	860350.621						
Tangent	PT		48+02.990 R2	939529.372	860350.685						
Tangent	PC		52+89.180 R2	939047.001	860411.507						
Arc	PC		52+89.180 R2	939047.001	860411.507						
Arc	HPI		56+99.907 R2	938639.521	860463.054	1432.690	800.000	31.993°	Right		
Arc	CC			938867.194	858990.145						
Arc	PT		60+89.180 R2	938266.622	860290.880						
Tangent	PT		60+89.180 R2	938266.622	860290.880						
Tangent	PC		65+88.810 R2	937813.681	860079.990						
Arc	PC		65+88.810 R2	937813.681	860079.990						
Arc	HPI		72+51.474 R2	937212.940	859800.285	1146.280	1201.670	60.064°	Right		
Arc	CC			938297.516	859040.827						
Arc	PT		77+90.480 R2	937155.544	859140.111						
Tangent	PT		77+90.480 R2	937155.544	859140.111						
Tangent	PC		87+47.460 R2	937069.609	858186.997						
Arc	PC		87+47.460 R2	937069.609	858186.997						
Arc	HPI		89+65.059 R2	937050.069	857970.277	1910.080	433.330	12.998°	Right		
Arc	CC			938971.972	858015.475						
Arc	PT		91+80.790 R2	937079.775	857754.716						
Tangent	PT		91+80.790 R2	937079.775	857754.716						
Tangent	PC		97+04.650 R2	937150.149	857235.604						
Arc	PC		97+04.650 R2	937150.149	857235.604						
Arc	HPI		104+86.327 R2	937254.603	856460.937	1637.280	1458.570	51.042°	Left		
Arc	CC			935527.553	857016.816						
Arc	PT		111+63.220 R2	936717.894	855892.639						
Tangent	PT		111+63.220 R2	936717.894	855892.639						
Tangent	END		116+60.519 R2	936376.442	855531.091						

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COORDINATE POINTS FOR ROUTE 231 CL



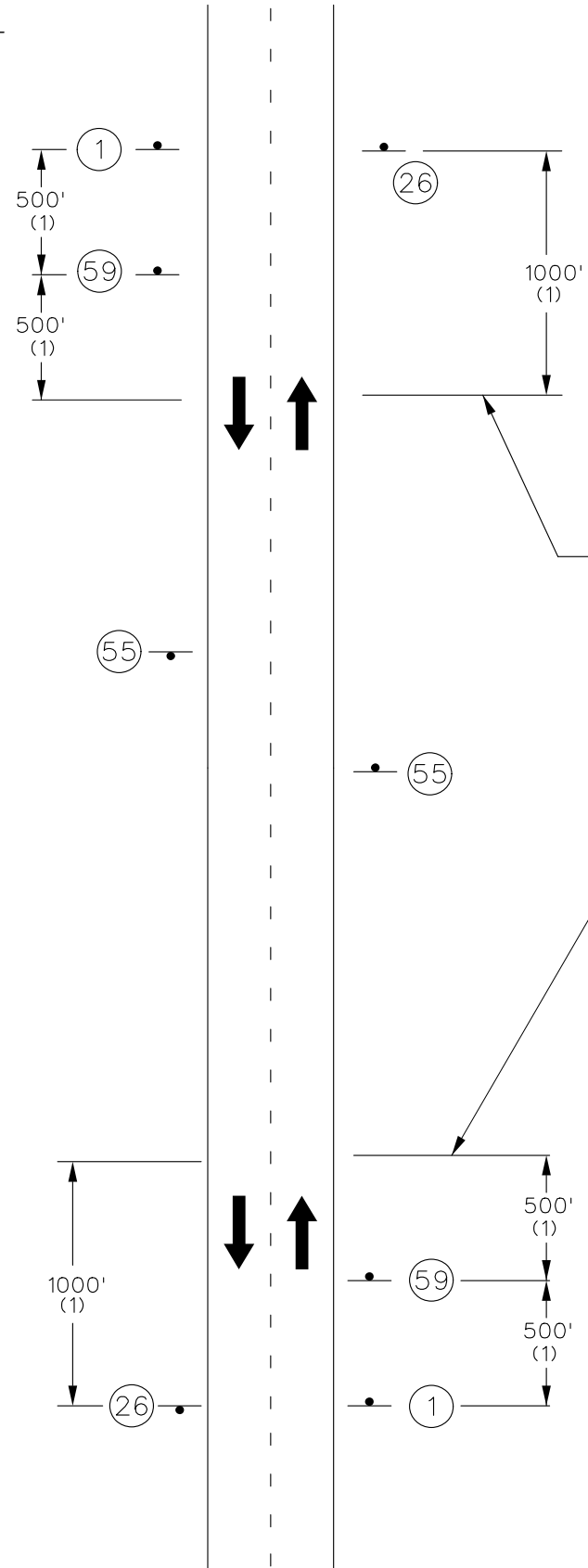
DATE PREPARED  
8/27/2024  
ROUTE 231 STATE MO  
DISTRICT SL SHEET NO. 13  
COUNTY JEFFERSON  
JOB NO. JSL0042  
CONTRACT ID.  
PROJECT NO.  
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
 105 WEST CAPITOL JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)

COORDINATE POINT SHEET

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END OF PROJECT LIMITS; END OF WORK ZONE TERMINATION AREA, IF LOCATED BEYOND END OF PROJECT; OR LAST WORK ZONE SIGN, IF LOCATED OUTSIDE PROJECT LIMITS.

BEGINNING OF PROJECT LIMITS; OR INITIAL WORK ZONE SIGN, IF LOCATED OUTSIDE PROJECT LIMITS.

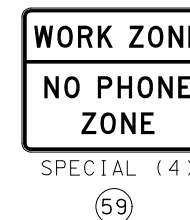
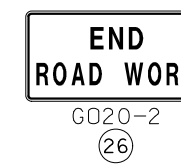
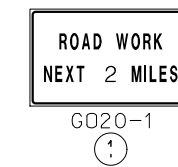
NOTES:  
 SIGN G020-1 IS REQUIRED PER EPG 616.6.56.  
 SIGN G020-2 IS USED ON ALL PROJECTS WHERE SIGN G020-1 IS USED.  
 OTHER SIGNS SUCH AS DETOUR OR ALTERNATE ROUTE SIGNING MAY BE USED OUTSIDE THE PROJECT LIMITS.

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.  
 (1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

(2) CONST-5-96 OR CONST-5-48 SIGN IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE SIGN G020-1.

(3) THE "POINT OF PRESENCE" SIGN IS AVAILABLE IN TWO SIZES DEPENDING ON ROADWAY CONDITIONS. THE 48 IN. X 36 IN. SIGN IS USED ON LOW VOLUME ROUTES THAT CARRY 400 AADT OR LESS, ON PROJECTS THAT HAVE A DURATION OF 4 WEEKS OR LESS OR IN URBAN AREAS WHERE THERE IS INSUFFICIENT RIGHTS OF WAY FOR AN EIGHT FOOT WIDE SIGN. THE 96 IN. X 48 IN. VERSION OF THE SIGN IS USED IN ALL OTHER APPLICATIONS, BUT CAN ALSO BE USED IN PLACE OF THE 48 IN. X 36 IN. SIGN IF ADDED EMPHASIS IS DEEMED NECESSARY.

(4) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.



CONST-5-96 (2 & 3)

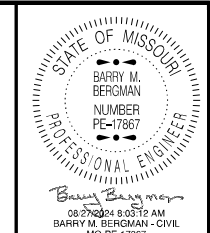
55

TRAFFIC CONTROL LEGEND

• SIGN (SINGLE SIDED)

TWO-LANE UNDIVIDED  
 BEGIN/END OF PROJECT SIGNING

NOT TO SCALE



DATE PREPARED  
 8/27/2024  
 ROUTE STATE  
 231 MO  
 DISTRICT SHEET NO.  
 SL 14  
 COUNTY  
 JEFFERSON  
 JOB NO.  
 JSL0042  
 CONTRACT ID.

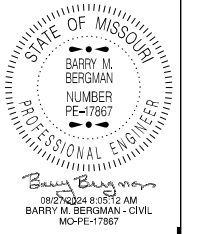
PROJECT NO.  
 BRIDGE NO.

DESCRIPTION	DATE

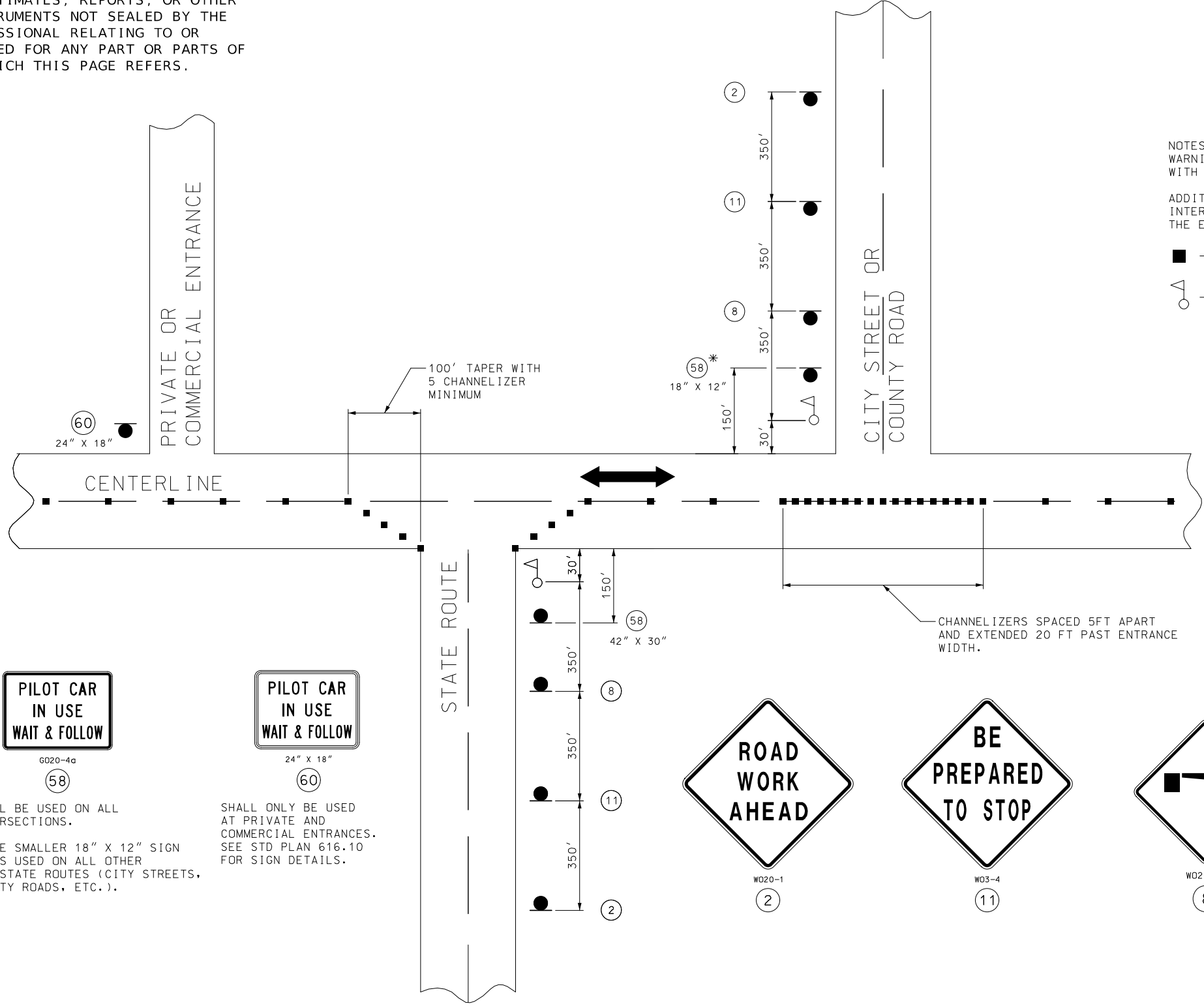
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
 105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)  
 Missouri Department of Transportation (MoDOT)

TRAFFIC CONTROL SHEET

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DATE PREPARED  
 8/27/2024  
 ROUTE STATE  
 231 MO  
 DISTRICT SHEET NO.  
 SL 15  
 COUNTY  
 JEFFERSON  
 JOB NO.  
 JSL0042  
 CONTRACT ID.  
 PROJECT NO.  
 BRIDGE NO.



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

PILOT CAR  
 IN USE  
 WAIT & FOLLOW  
 6020-4a

(58)

SHALL BE USED ON ALL INTERSECTIONS.

\* THE SMALLER 18" X 12" SIGN 58 IS USED ON ALL OTHER NON-STATE ROUTES (CITY STREETS, COUNTY ROADS, ETC.).

PILOT CAR  
 IN USE  
 WAIT & FOLLOW  
 24" X 18"

(60)

SHALL ONLY BE USED AT PRIVATE AND COMMERCIAL ENTRANCES. SEE STD PLAN 616.10 FOR SIGN DETAILS.

ROAD  
 WORK  
 AHEAD

W020-1  
 (2)

BE  
 PREPARED  
 TO STOP

W03-4  
 (11)



W020-7a  
 (8)

NOT TO SCALE

SIDE ROADS ENTERING WORK ZONES

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
 105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)



TRAFFIC CONTROL SHEET



WO20-1  
2



WO20-4  
7

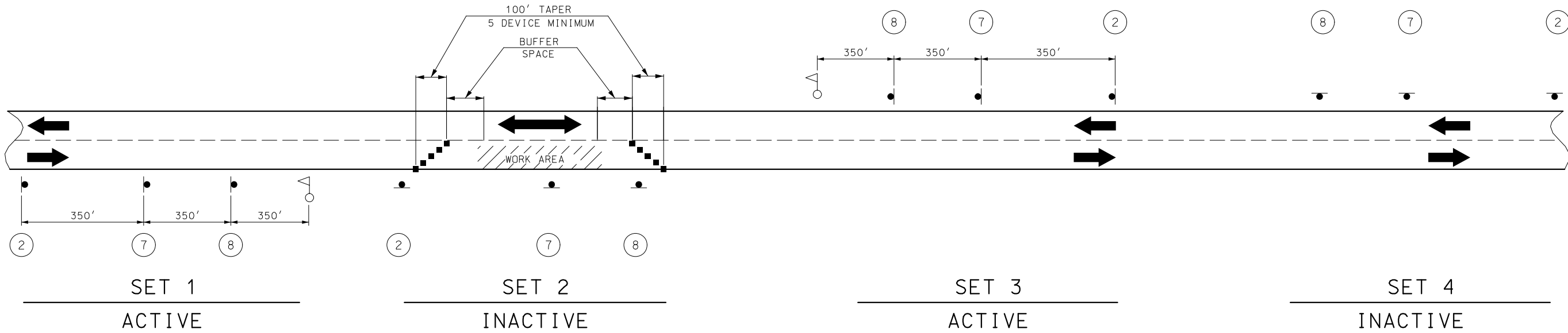


WO20-7a  
8

PILOT CAR  
FOLLOW ME

6020-4  
53

SIGN 53, "PILOT CAR FOLLOW ME" SHALL BE THE CONTRACTOR'S RESPONSIBILITY WHEN IN USE DURING OPERATION.



NOTES:

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

NOT TO SCALE

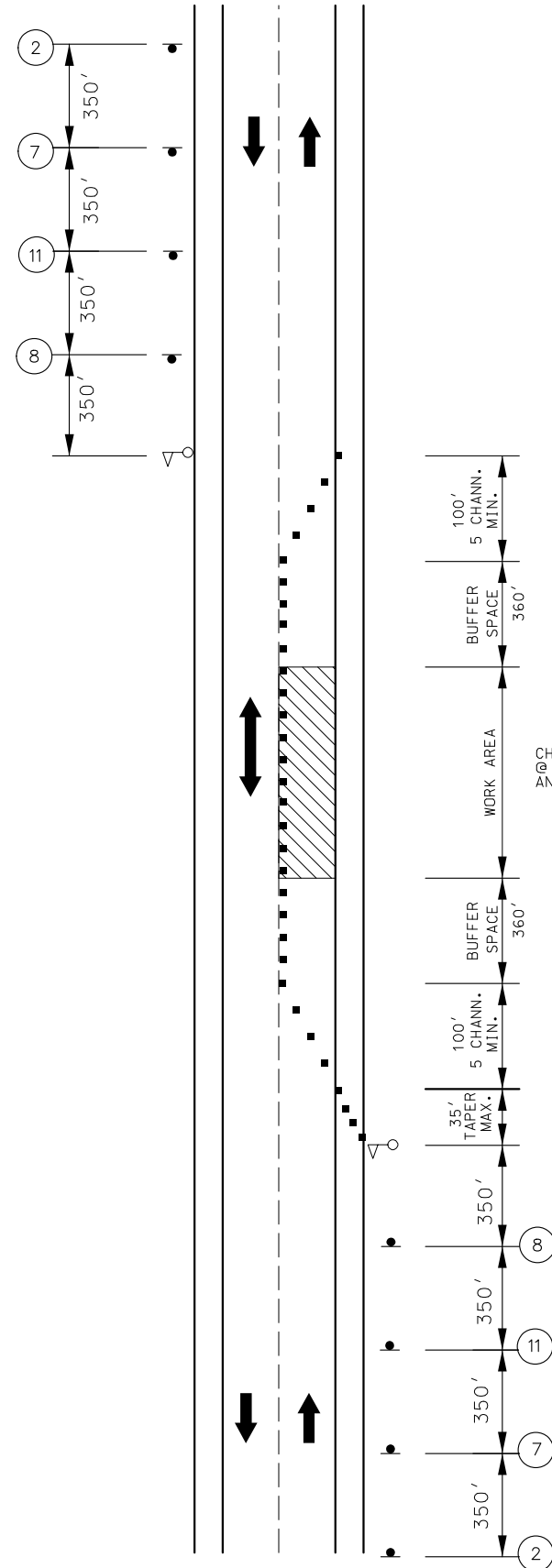


STATE OF MISSOURI  
BARRY M. BERGMAN  
NUMBER PF-17867  
PROFESSIONAL ENGINEER  
DATE PREPARED 8/27/2024  
ROUTE 231 STATE MO  
DISTRICT SL SHEET NO. 16  
COUNTY JEFFERSON  
JOB NO. JSL0042  
CONTRACT ID.  
PROJECT NO.  
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
MoDOT  
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

TRAFFIC CONTROL SHEET



LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- WORK AREA
- FLAGGER



W020-1  
2



W020-4  
7



W020-7a  
8



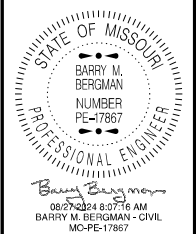
W03-4  
11

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NOTES:

AUTOMATED FLAGGER ASSISTANCE DEVICES (AFAD) AND PORTABLE SIGNAL FLAGGING DEVICES (PSFD) MAY BE USED AS AN ALTERNATIVE FLAGGING OPERATION.

IF USED AT NIGHT, THE FLAGGER STATIONS SHALL BE ILLUMINATED WITH AN AVERAGE MAINTAINED INTENSITY OF 0.6 FOOTCANDLES (6.5 LUX).



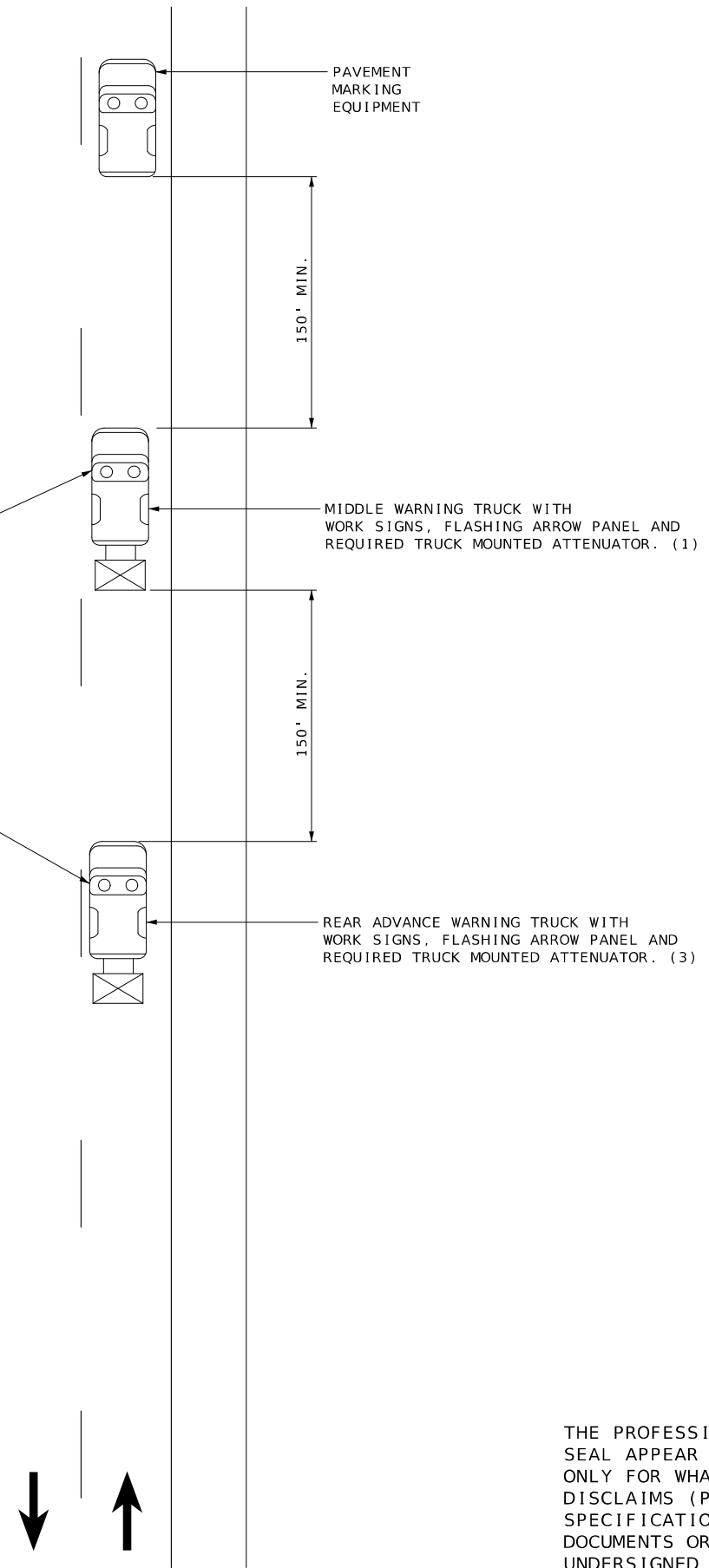
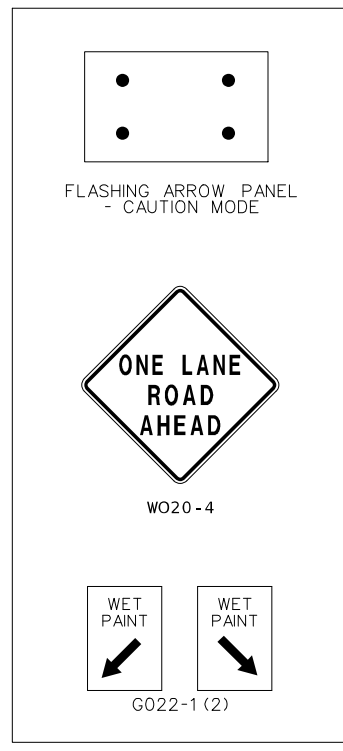
DATE PREPARED  
8/27/2024  
ROUTE 231 STATE MO  
DISTRICT SL SHEET NO. 17  
COUNTY JEFFERSON  
JOB NO. JSL0042  
CONTRACT ID.  
PROJECT NO.  
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL SHEET  
LANE CLOSURE  
TWO-LANE ROAD USING FLAGGERS



NOTES:

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

PROTECTIVE TRUCKS 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 STROBE LIGHTS.

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

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

(1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD ARE 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 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, WHICHEVER IS GREATER.

NOT TO SCALE

**STRIPING ON TWO-LANE HIGHWAY**

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DATE PREPARED 9/25/2024	
ROUTE 231	STATE MO
DISTRICT SL	SHEET NO. 18
COUNTY JEFFERSON	
JOB NO. JSL0042	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

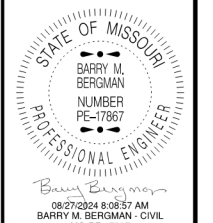
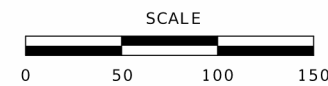
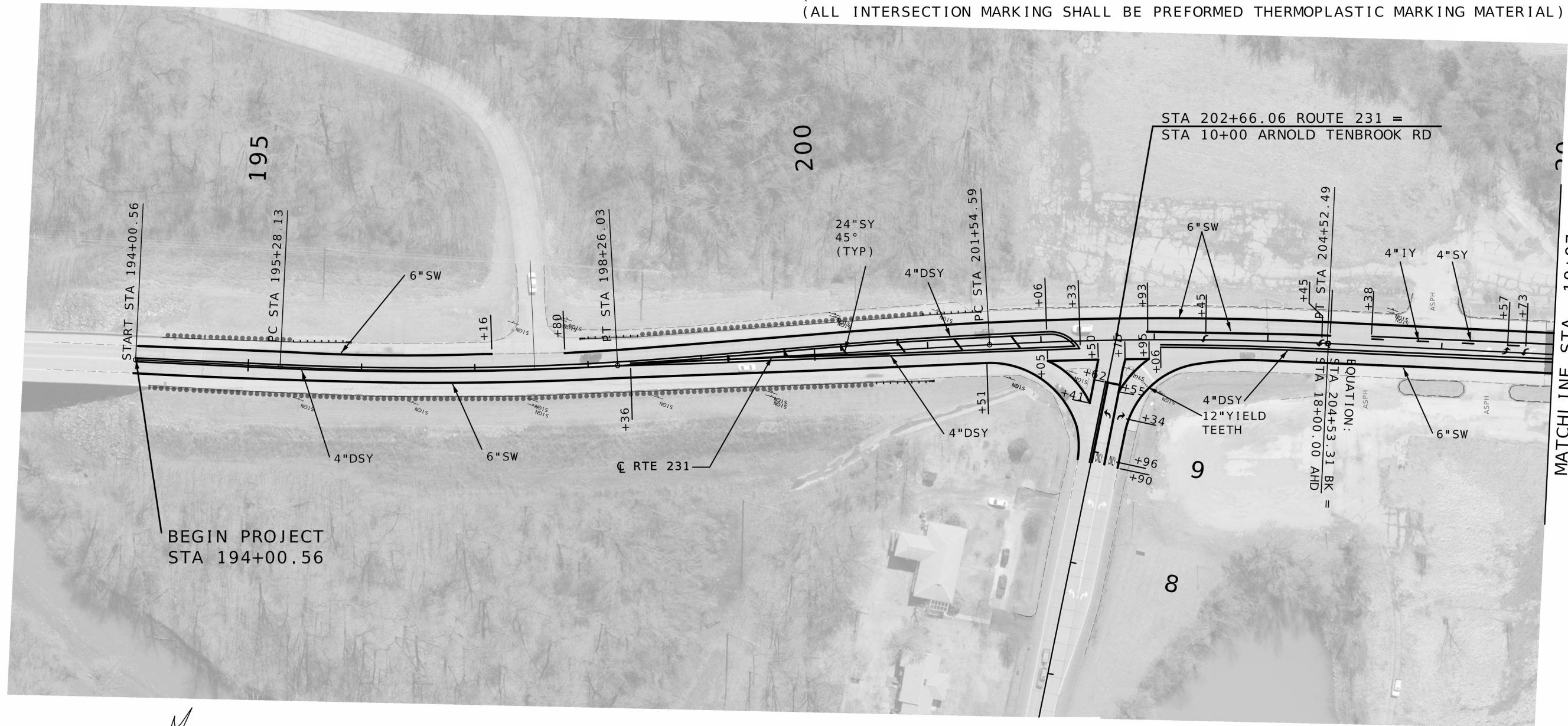
TRAFFIC CONTROL SHEET  
 STRIPING ON MOVING OPP.

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**STRIPING LEGEND**

- 6"SW SOLID WHITE PAINT
- 6"IW INTERMITTENT WHITE PAINT (10'STRIPE W/30'GAP)
- 4"DSY DOUBLE SOLID YELLOW PAINT
- 4"SY SOLID YELLOW PAINT
- 24"SY/SW 24"YELLOW OR WHITE @ 45° & 50'CENTERS (PREF.THERMO.)
- 4" IY INTERMITTENT YELLOW PAINT

(ALL PAINT TO BE HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT - TYPE L BEADS)  
 (ALL INTERSECTION MARKING SHALL BE PREFORMED THERMOPLASTIC MARKING MATERIAL)



DATE PREPARED 8/27/2024	
ROUTE 231	STATE MO
DISTRICT SL	SHEET NO. 19
COUNTY JEFFERSON	
JOB NO. JSL0042	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

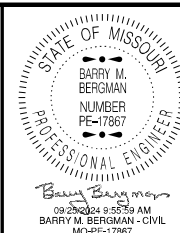
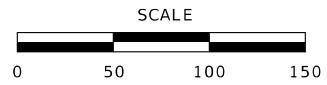
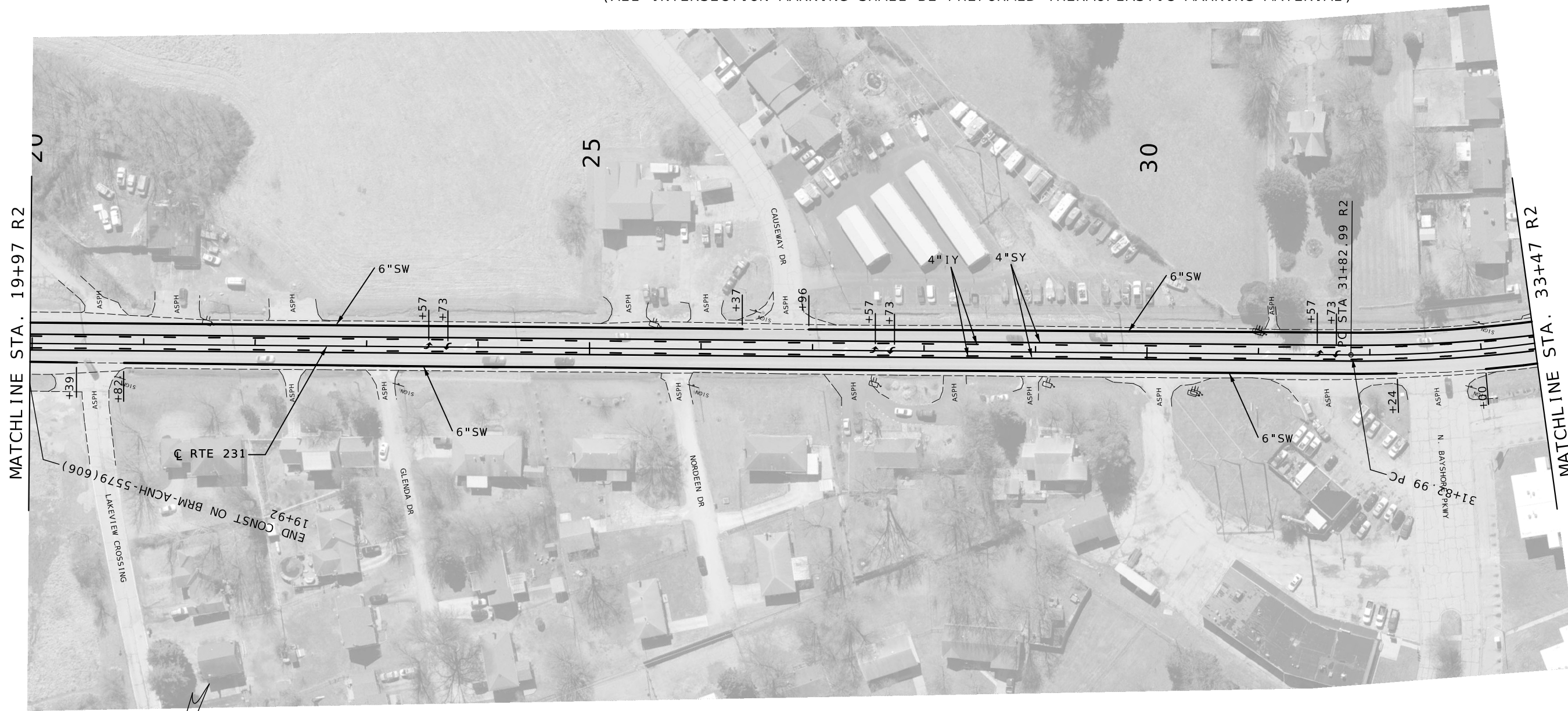
PAVEMENT MARKING SHEET

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**STRIPING LEGEND**

- 6"SW SOLID WHITE PAINT
- 6"IW INTERMITTENT WHITE PAINT (10' STRIPE W/30' GAP)
- 4"DSY DOUBLE SOLID YELLOW PAINT
- 4"SY SOLID YELLOW PAINT
- 24"SY/SW 24"YELLOW OR WHITE @ 45° & 50' CENTERS (PREF.THERMO.)
- 4"1Y INTERMITTENT YELLOW PAINT

(ALL PAINT TO BE HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT - TYPE L BEADS)  
 (ALL INTERSECTION MARKING SHALL BE PREFORMED THERMOPLASTIC MARKING MATERIAL)



DATE PREPARED 9/25/2024	
ROUTE 231	STATE MO
DISTRICT SL	SHEET NO. 20
COUNTY JEFFERSON	
JOB NO. JSL0042	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PAVEMENT MARKING SHEET

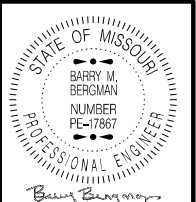
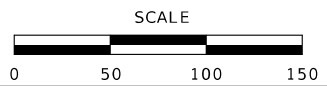
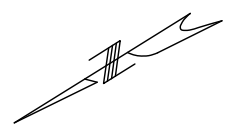
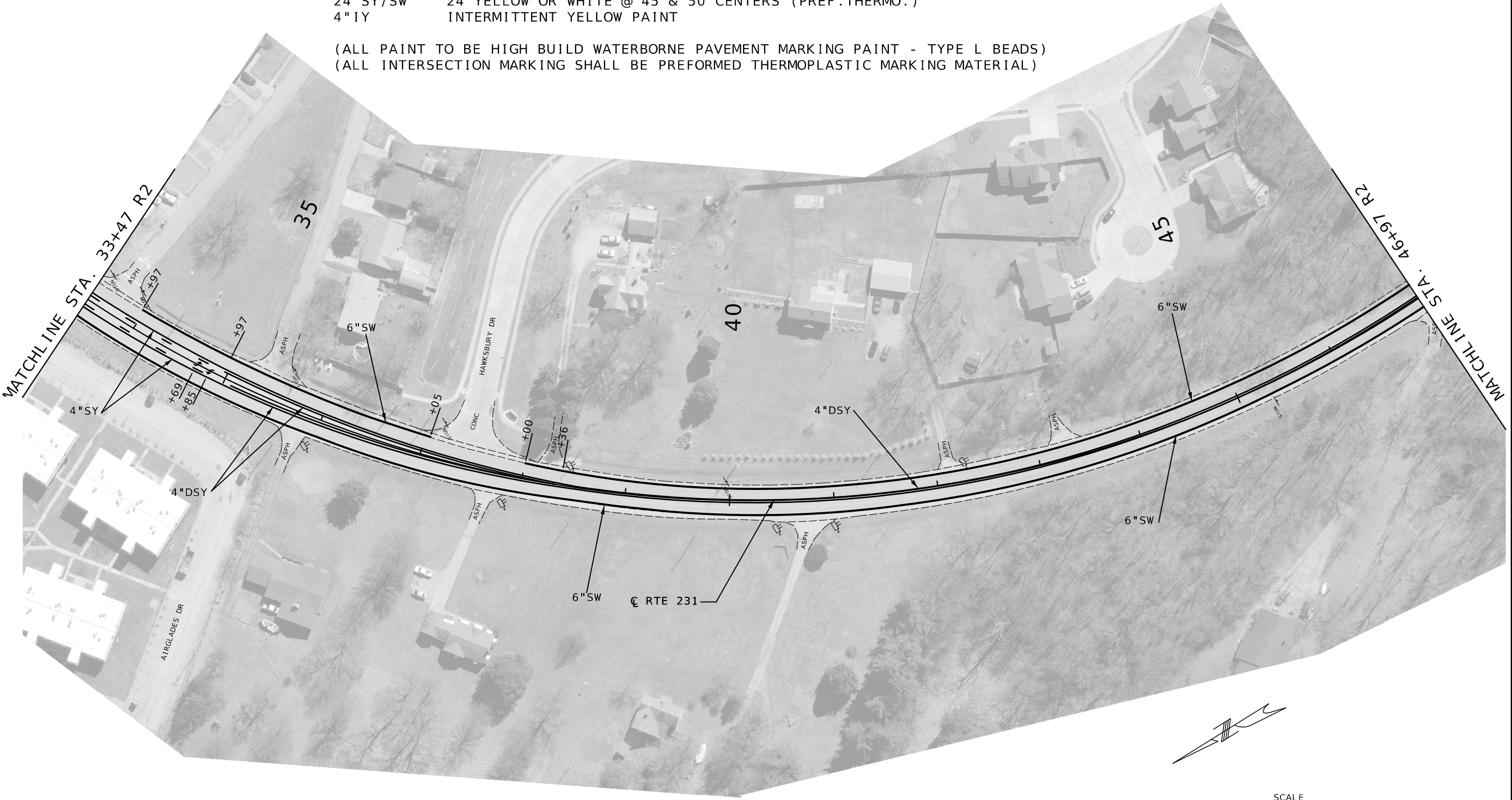


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**STRIPING LEGEND**

- 6"SW SOLID WHITE PAINT
- 6"IW INTERMITTENT WHITE PAINT (10'STRIPE W/30'GAP)
- 4"DSY DOUBLE SOLID YELLOW PAINT
- 4"SY SOLID YELLOW PAINT
- 24"SY/SW 24"YELLOW OR WHITE @ 45° & 50'CENTERS (PREF.THERMO.)
- 4"IY INTERMITTENT YELLOW PAINT

(ALL PAINT TO BE HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT - TYPE L BEADS)  
 (ALL INTERSECTION MARKING SHALL BE PREFORMED THERMOPLASTIC MARKING MATERIAL)



DATE PREPARED  
 8/27/2024

ROUTE STATE  
 231 MO

DISTRICT SHEET NO.  
 SL 21

COUNTY  
 JEFFERSON

JOB NO.  
 JSL0042

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

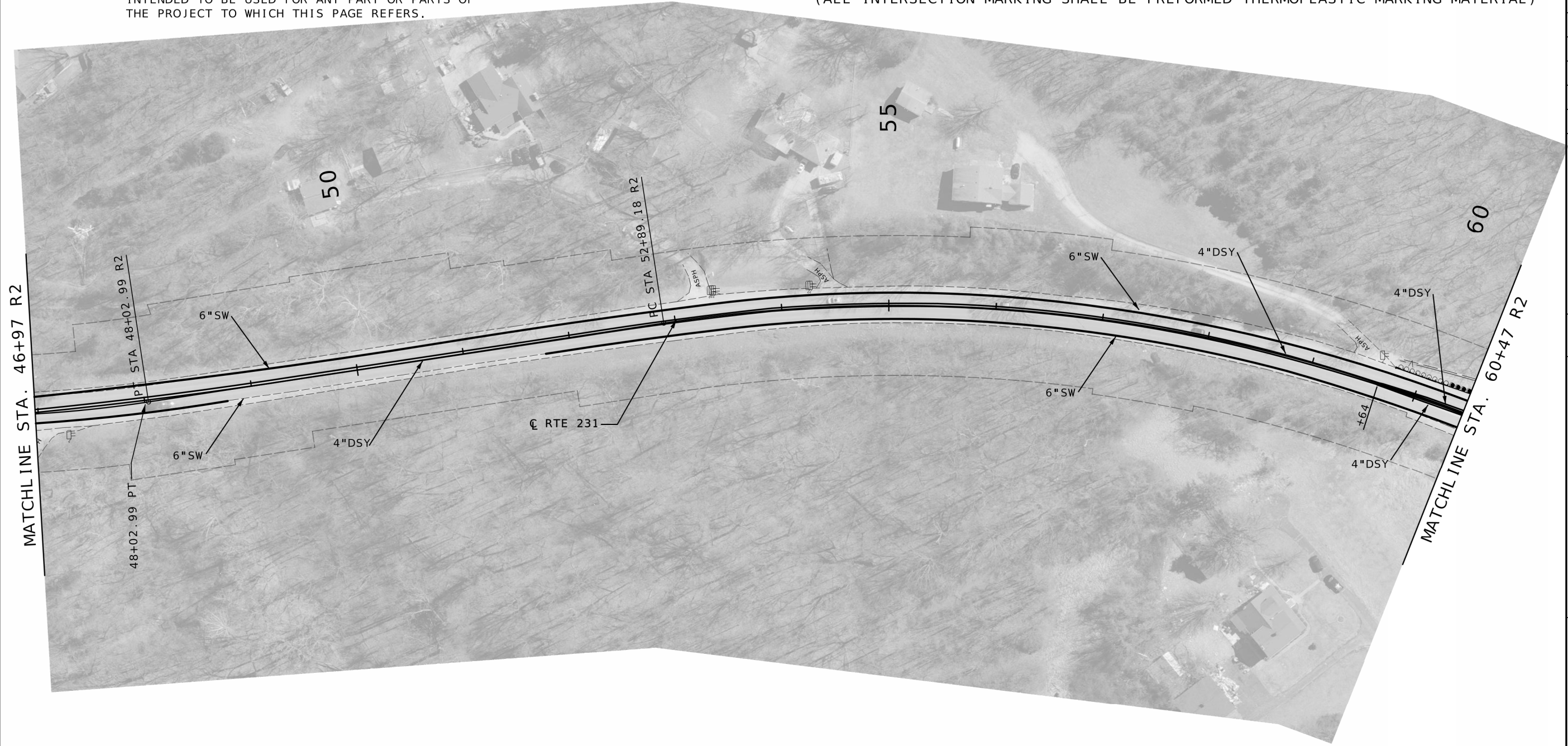
PAVEMENT MARKING SHEET

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DATE PREPARED  
 9/25/2024

ROUTE 231 STATE MO  
 DISTRICT SL SHEET NO. 22

COUNTY  
 JEFFERSON

JOB NO.  
 JSL0042

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PAVEMENT MARKING SHEET

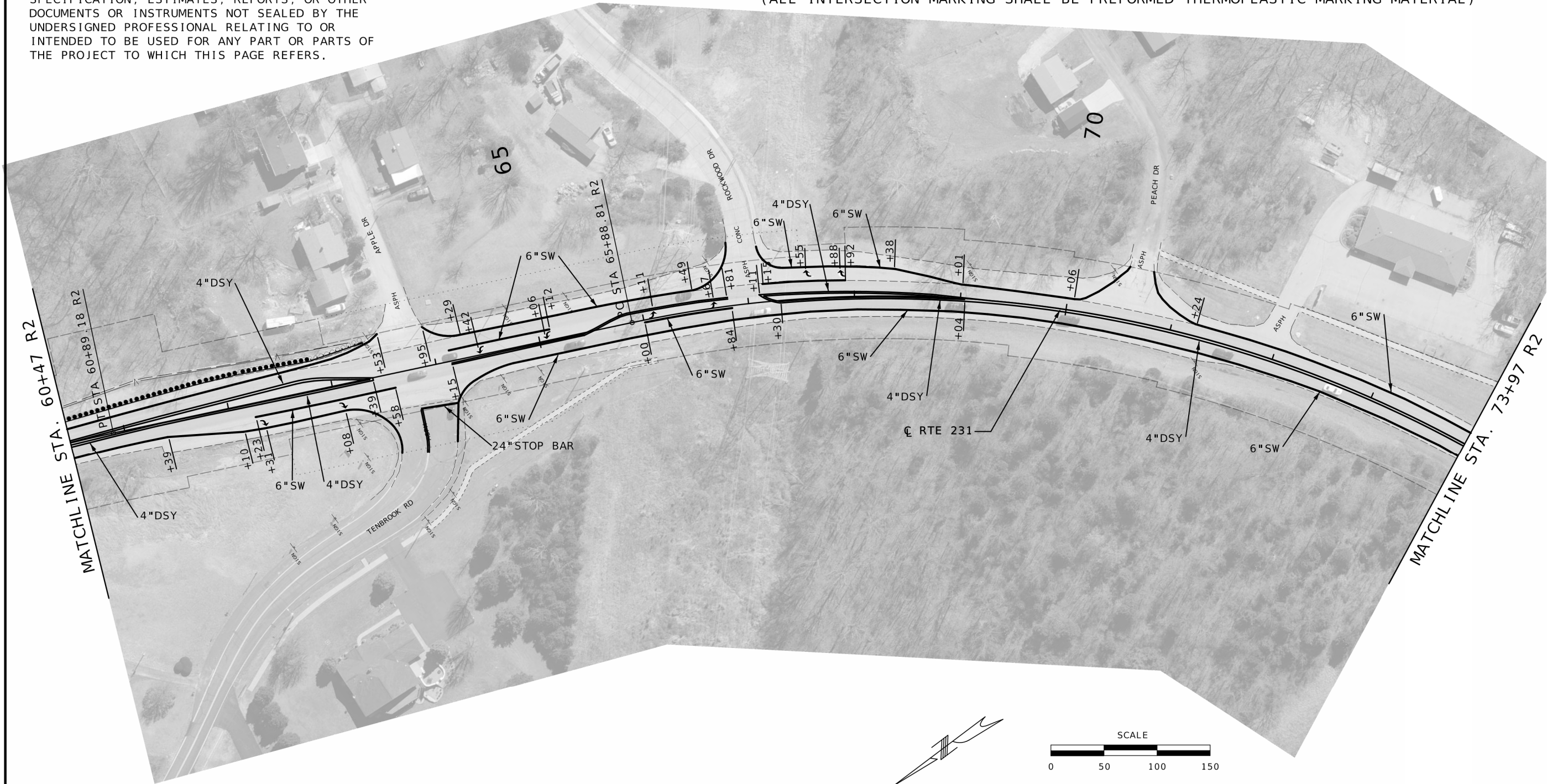
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**STRIPING LEGEND**

- 6" SW            SOLID WHITE PAINT
- 6" IW            INTERMITTENT WHITE PAINT (10' STRIPE W/30' GAP)
- 4" DSY          DOUBLE SOLID YELLOW PAINT
- 4" SY            SOLID YELLOW PAINT
- 24" SY/SW      24" YELLOW OR WHITE @ 45° & 50' CENTERS (PREF. THERMO.)
- 4" IY            INTERMITTENT YELLOW PAINT

(ALL PAINT TO BE HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT - TYPE L BEADS)  
 (ALL INTERSECTION MARKING SHALL BE PERFORMED THERMOPLASTIC MARKING MATERIAL)



DATE PREPARED  
8/27/2024

ROUTE 231	STATE MO
DISTRICT SL	SHEET NO. 23
COUNTY JEFFERSON	
JOB NO. JSL0042	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PAVEMENT MARKING SHEET

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DATE PREPARED  
 8/27/2024  
 ROUTE 231 STATE MO  
 DISTRICT SL SHEET NO. 24  
 COUNTY JEFFERSON  
 JOB NO. JSL0042  
 CONTRACT ID.  
 PROJECT NO.  
 BRIDGE NO.

DATE	DESCRIPTION

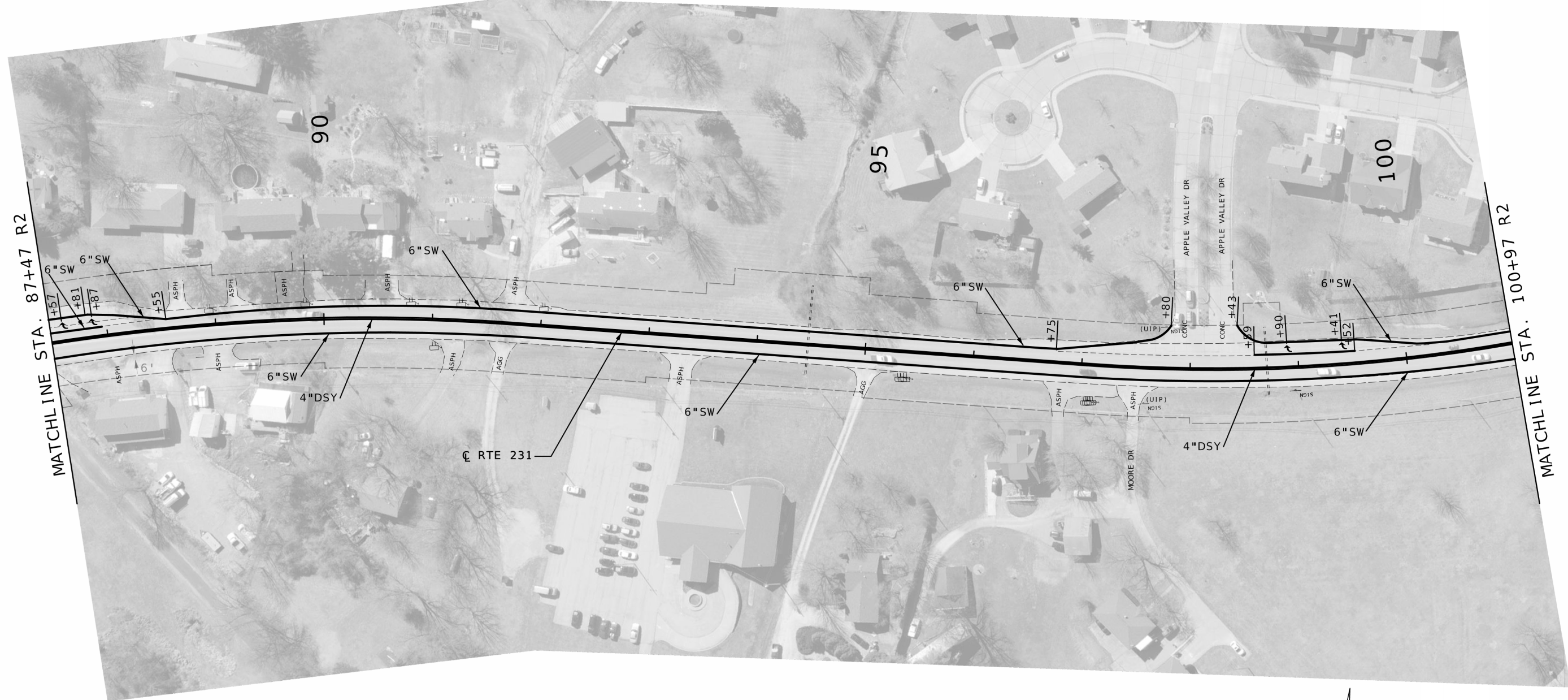
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
  
 105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)

PAVEMENT MARKING SHEET

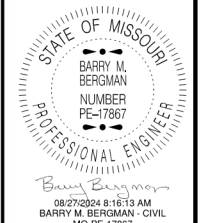
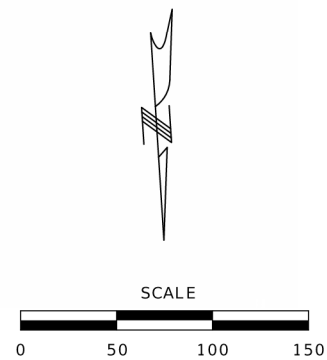
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DATE PREPARED  
 8/27/2024

ROUTE 231	STATE MO
DISTRICT SL	SHEET NO. 25

COUNTY  
 JEFFERSON

JOB NO.  
 JSL0042

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

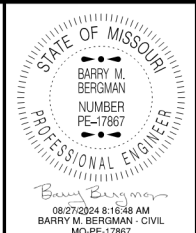
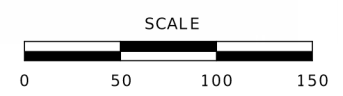
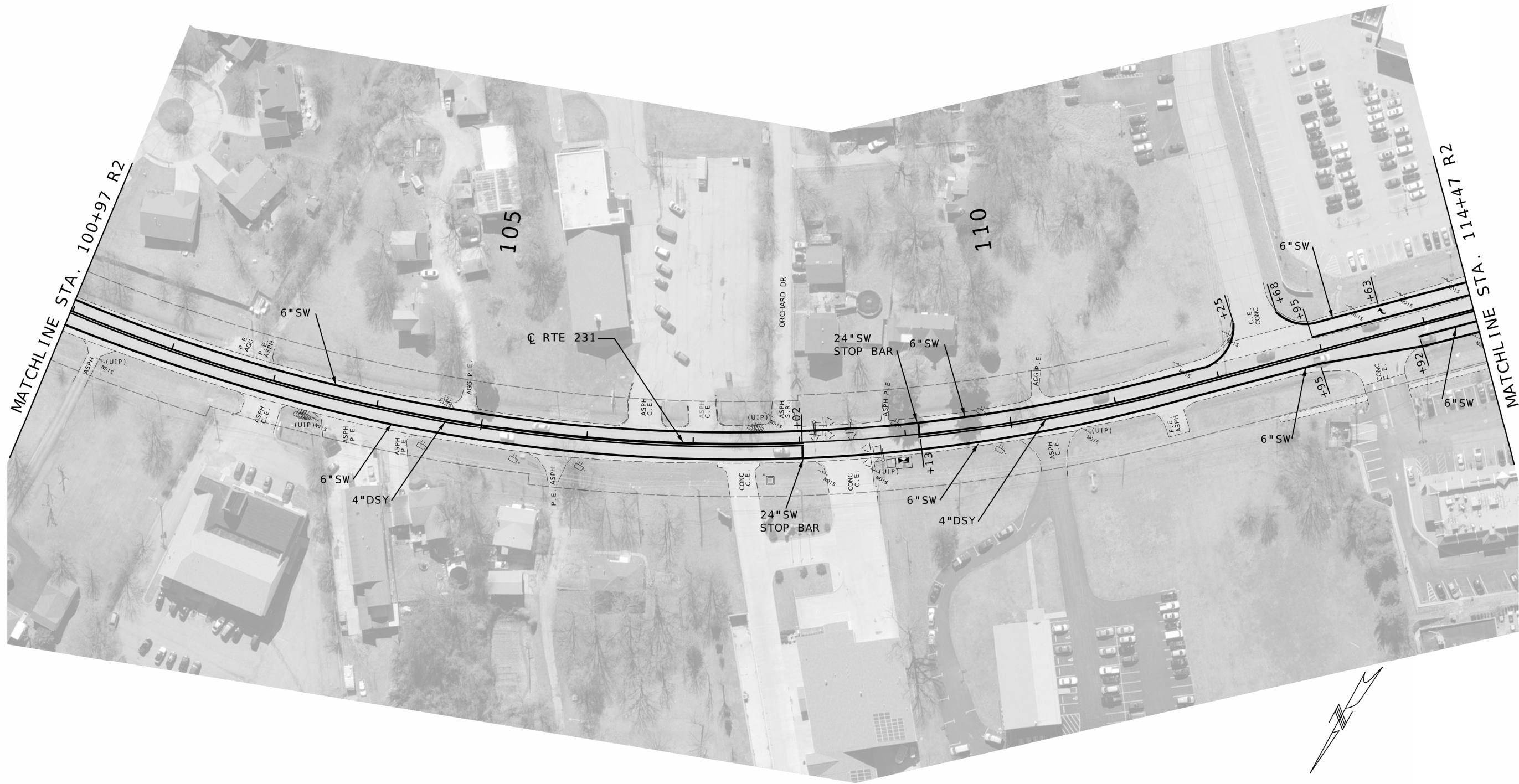
PAVEMENT MARKING SHEET

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DATE PREPARED 8/27/2024	
ROUTE 231	STATE MO
DISTRICT SL	SHEET NO. 26
COUNTY JEFFERSON	
JOB NO. JSL0042	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

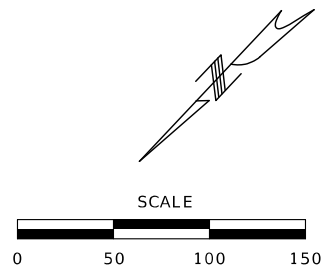
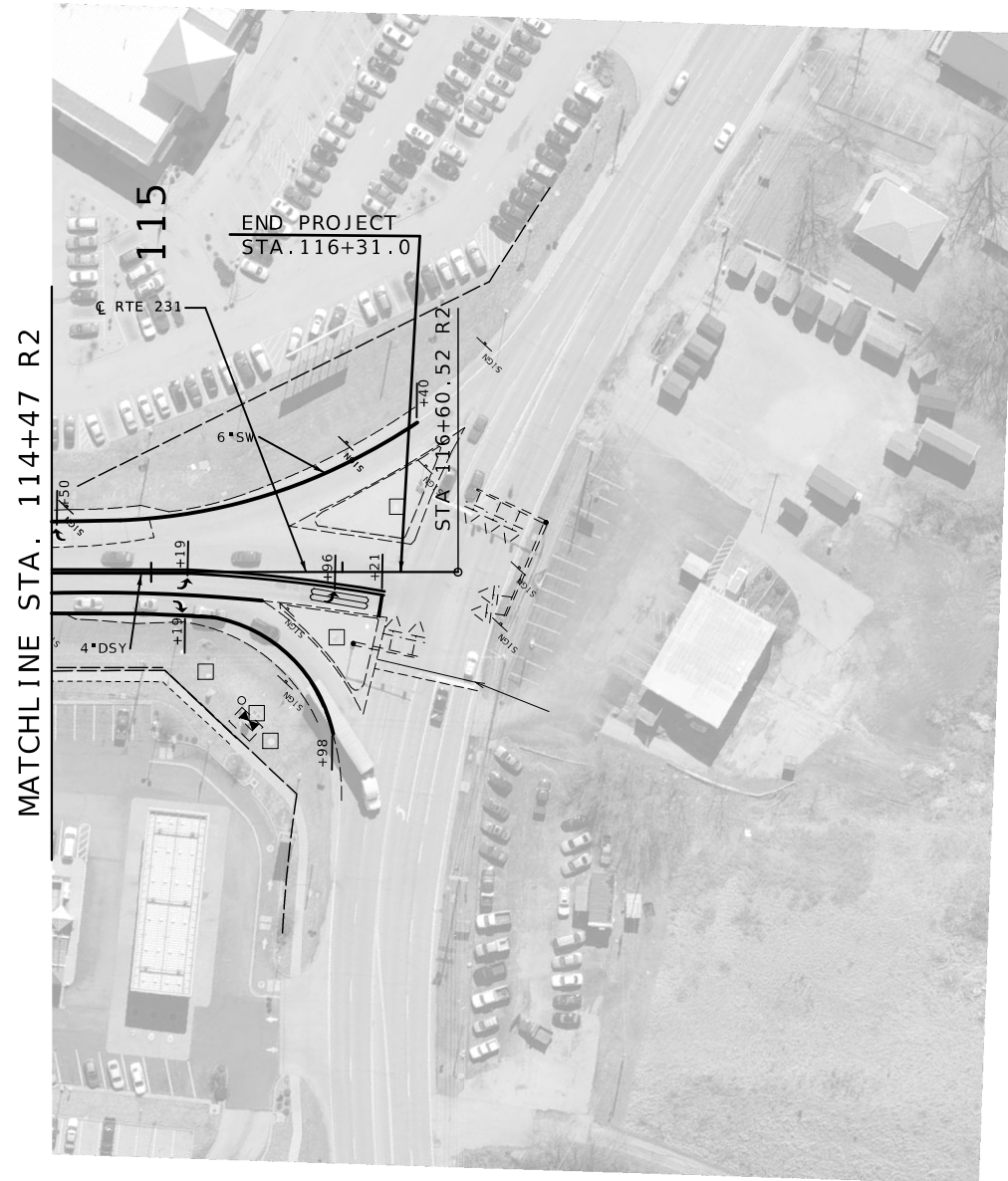
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
  
 105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)

PAVEMENT MARKING SHEET

STRIPING LEGEND

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DATE PREPARED 9/25/2024	
ROUTE 231	STATE MO
DISTRICT SL	SHEET NO. 27
COUNTY JEFFERSON	
JOB NO. JSL0042	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

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

PLAN SHEET

STANDARD SIGN ASSEMBLIES										
SIGN NUMBER	STATION	LOCATION	TYPE							
			SH R1-1	SH R5-1						
			SIGN DESCRIPTION, SIZES & NUMBER OF EACH							
										
1	197+35	LEFT	1							
2	202+77	RIGHT	1							
3	20+79	RIGHT	1							
4	23+29	RIGHT	1							
5	25+93	RIGHT	1							
6	26+51	LEFT	1							
7	32+87	RIGHT	1							
8	33+55	LEFT	1							
8A	33+55	LEFT		1						
9	37+15	LEFT	1							
10	63+42	LEFT	1							
11	64+20	RIGHT	1							
12	66+70	LEFT	1							
13	70+41	LEFT	1							
14	74+37	LEFT	1							
15	84+51	RIGHT	1							
16	86+52	LEFT	1							
17	97+78	LEFT	1							
18	97+58	RIGHT	1							
19	105+84	RIGHT	1							
20	107+73	LEFT	1							
21	112+17	LEFT	1							
SUBTOTAL			21	1						
TOTALS			21	1						

D-30

SIGN SUMMARY				
STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET	
			SIZE	FLAT SHEET SH ITEM NO. 9035004A
STOP (R1-1)		21	36"X36"OCTAGON	160
DO NOT ENTER (R5-1)		1	30"X30"	6.25
SUBTOTALS				166.25
TOTAL				167

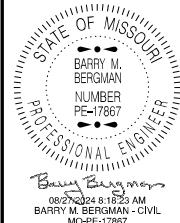
D-30

SIGNS						PERFORATED SQUARE STEEL TUBE					REMARKS AND OTHER REQUIRED ITEMS		
902 SIGNAL SIGNS TABULATED ON D-37A SHEET						2.5 IN. POST				BREAK-AWAY ASSEMBLY			
SIGN NO.	SIGN SIZE	STATION	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	2.25" ANCHORS							
						POST NO. 1	POST NO. 2	TOTAL	INSERT (6 FT) ITEM NO. 9031280			DRIVEN 7-GA. ITEM NO. 9031281A	CONCRETE 7-GA. ITEM NO. 9031285
						LF	LF	LF	EA	EA	EA	EA	
1	36X36	197+35		LEFT		13.0		13.0		1			INSTALL NEW SIGN & POST
2	36X36	202+77		RIGHT									RE-USE EX.POST
3	36X36	20+79		RIGHT		12.0		12.0		1			INSTALL NEW SIGN & POST
4	36X36	23+29		RIGHT		12.0		12.0		1			INSTALL NEW SIGN & POST
5	36X36	25+93		RIGHT		12.0		12.0		1			INSTALL NEW SIGN & POST
6	36X36	26+51		LEFT									RE-USE EX.POST
7	36X36	32+87		RIGHT		11.0		11.0		1			INSTALL NEW SIGN & POST
8	36X36	33+55		LEFT		12.0		12.0		1			INSTALL NEW SIGN & POST
8A	30X30	33+55		LEFT									INSTALL ON SIGN 8 POST (BK TO BK)
9	36X36	37+15		LEFT									RE-USE EX.POST
10	36X36	63+42		LEFT									RE-USE EX.POST
11	36X36	64+20		RIGHT									RE-USE EX.POST
12	36X36	66+70		LEFT									RE-USE EX.POST
13	36X36	70+41		LEFT									RE-USE EX.POST
14	36X36	74+37		LEFT		11.0		11.0		1			INSTALL NEW SIGN & POST
15	36X36	84+51		RIGHT		12.0		12.0		1			INSTALL NEW SIGN & POST
16	36X36	86+52		LEFT									RE-USE EX.POST
17	36X36	97+78		LEFT		12.0		12.0		1			INSTALL NEW SIGN & POST
18	36X36	97+58		RIGHT		10.0		10.0		1			INSTALL NEW SIGN & POST
19	36X36	105+84		RIGHT		13.0		13.0		1			INSTALL NEW SIGN & POST
20	36X36	107+73		LEFT		10.0		10.0		1			INSTALL NEW SIGN & POST
21	36X36	112+17		LEFT		10.0		10.0		1			INSTALL NEW SIGN & POST
TOTAL								150.0		13			
PAYTOTAL								150		13			

D-29

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D-29 & D-30 MODIFIED



DATE PREPARED: 8/27/2024

ROUTE: 231 STATE: MO

DISTRICT: SL SHEET NO.: 28

COUNTY: JEFFERSON

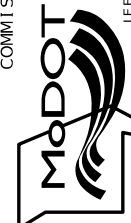
JOB NO.: JSL0042

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

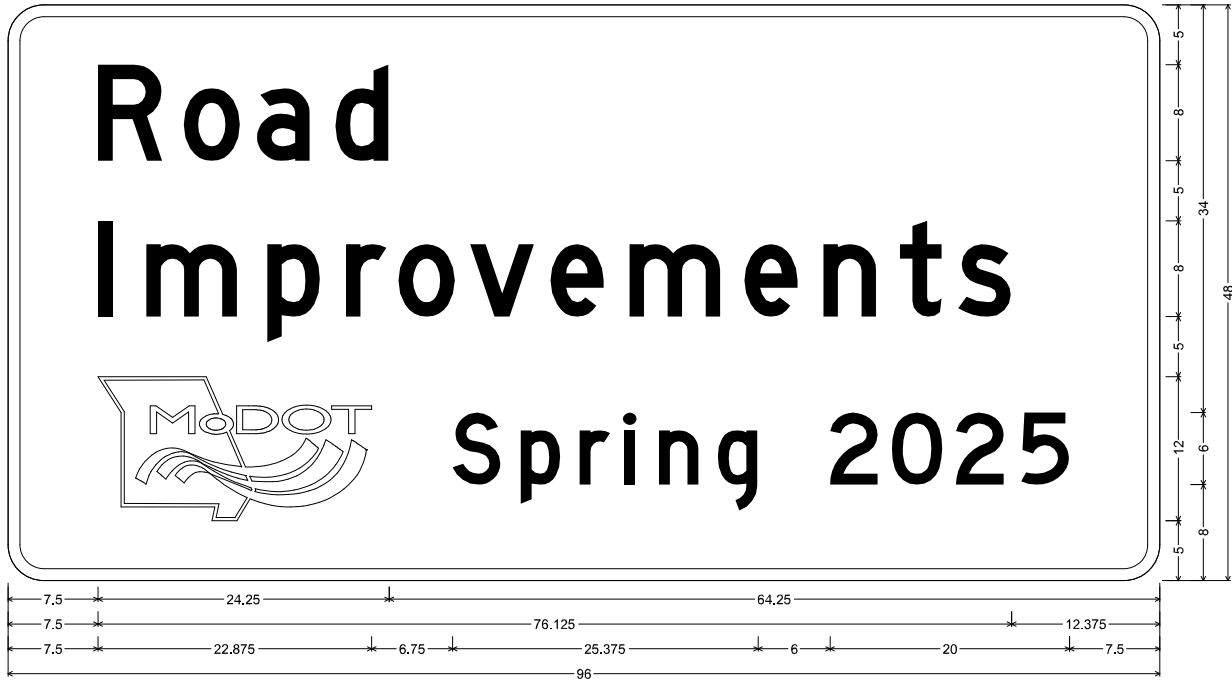
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

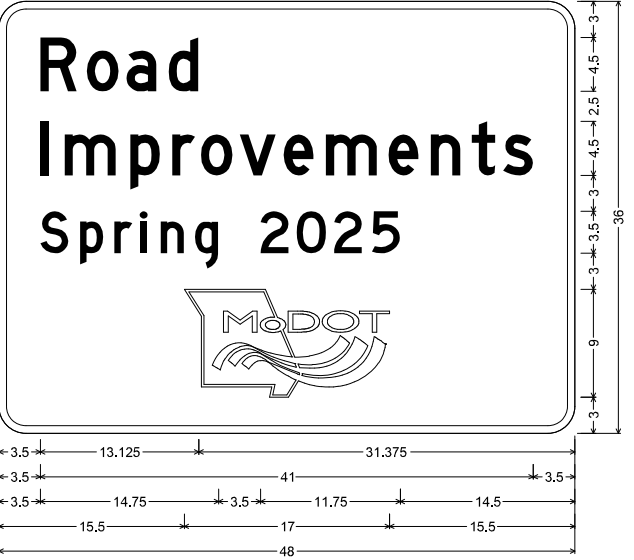
SIGNING QUANTITIES





CONST-5-96 SH-FLAT SHEET;  
 3,000" Radius, 1,000" Border, White on, Blue;  
 "Road", D: "Improvements", D: "Spring 2025", D;  
 Table of letter and object lefts

R	o	a	d								
7.500	14.625	20.750	27.250								
I	m	p	r	o	v	e	m	e	n	t	s
7.500	11.500	21.625	28.125	32.500	38.500	45.250	51.750	61.375	68.000	74.375	79.250
S	p	r	i	n	g	2	0	2	5		
7.500	37.125	42.750	47.625	51.375	54.250	59.125	68.500	73.625	79.000	84.500	



CONST-5-48 SH-FLAT SHEET;  
 2,250" Radius, 0,625" Border, White on, Blue;  
 "Road", D 85% spacing; "Improvements", D 85% spacing; "Spring 2025", D;  
 Table of letter and object lefts

R	o	a	d								
3.500	7.375	10.625	14.125								
I	m	p	r	o	v	e	m	e	n	t	s
3.500	5.500	11.000	14.500	16.875	20.125	23.750	27.250	32.500	36.000	39.375	42.000
S	p	r	i	n	g	2	0	2	5		
3.500	6.750	9.625	11.750	13.500	16.375	21.750	24.750	27.875	31.125		
15.500											

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DATE PREPARED  
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ROUTE	STATE
231	MO
DISTRICT	SHEET NO.
SL	29
COUNTY	
JEFFERSON	
JOB NO.	
JSL0042	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

POINT OF PRESENCE  
 SIGNING DETAIL SHEET

NOT TO SCALE