

DESIGN DESIGNATION

A.A.D.T. - 2025 = 16,057
A.A.D.T. - 2045 = 20,819
D.H.V. = 10%
T = 8%
V = 45.50 M.P.H.
D = 52% NB, 48% SB

FUNCTIONAL CLASSIFICATION- MINOR ARTERIAL

NO NEW R/W TO BE ACQUIRED

CONVENTIONAL SYMBOLS
(USED IN PLANS)

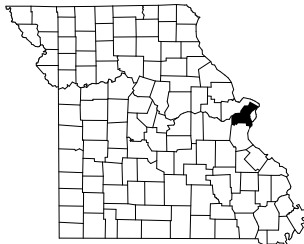
	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	-FO-
OVERHEAD CABLE TV	-OTV-	-OTV-
UNDERGROUND CABLE TV	-UTV-	-UTV-
OVERHEAD TELEPHONE	-OT-	-OT-
UNDERGROUND TELEPHONE	-UT-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

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

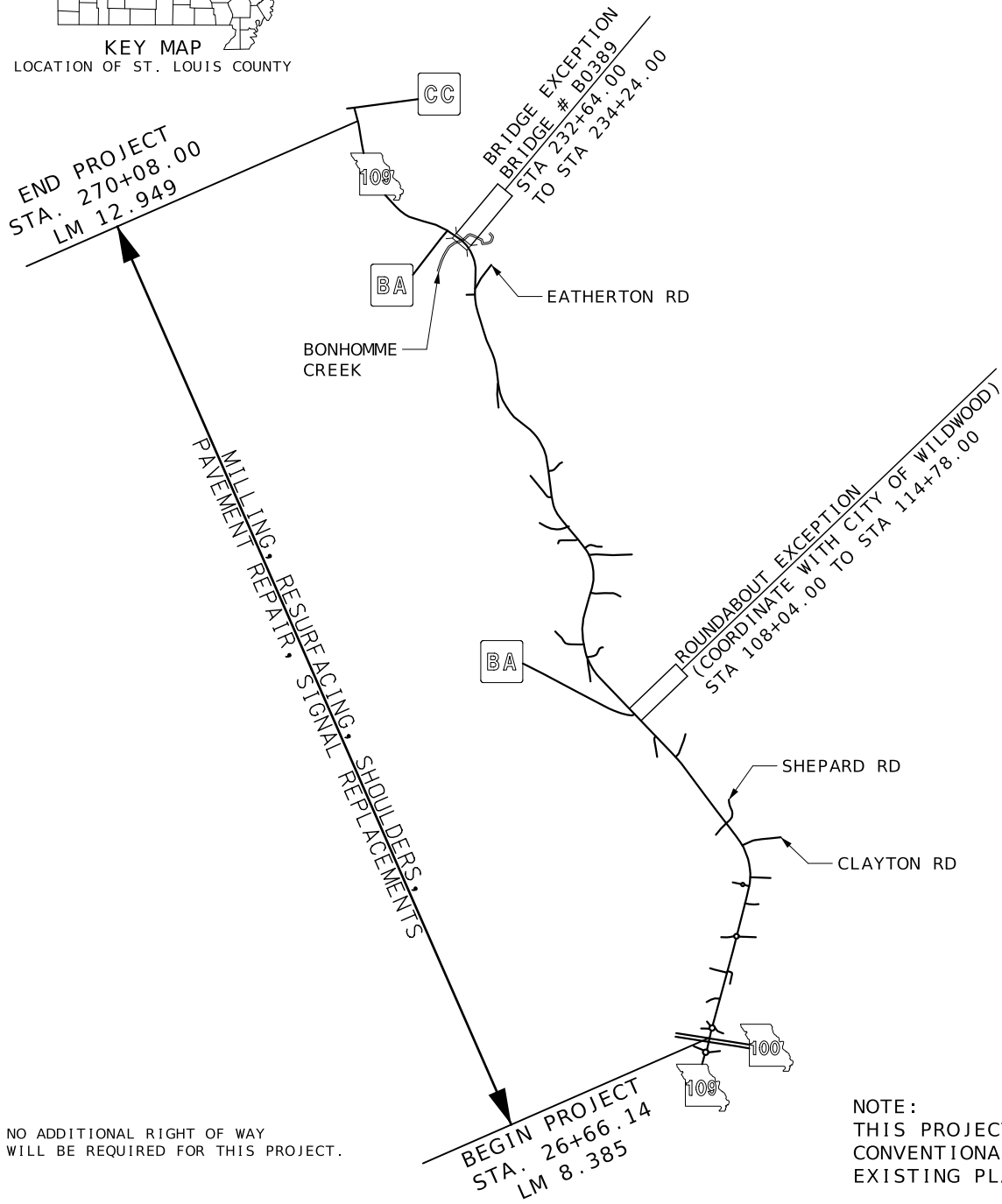
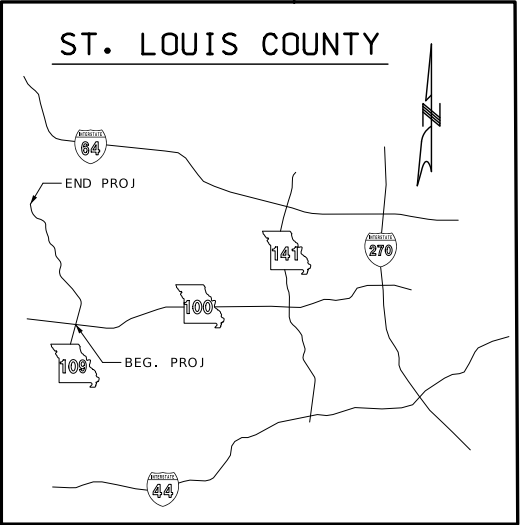
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY

ST. LOUIS COUNTY

T 44 N R 3 E
T 43 N R 3 E



KEY MAP
LOCATION OF ST. LOUIS COUNTY

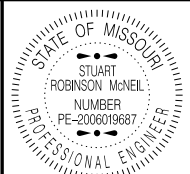


NOTE:
THIS PROJECT WAS PREPARED WITHOUT
CONVENTIONAL SURVEY AND IS BASED ON
EXISTING PLANS AND VISUAL OBSERVATIONS.

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) (9 SHEETS)	2
QUANTITIES (QU) (8 SHEETS)	3
PLAN-PROFILE (PP)	4-14
SPECIAL SHEETS (SS)	15-17
TRAFFIC CONTROL SHEETS (TC)	18-30
SIGNALS (SG)	31-49
ITS SHEETS (ITS)	50-54
SIGNING (SN)	55-76
PAVEMENT MARKING (PM)	77-87
WILDWOOD ENHANCEMENTS	1-8



DATE PREPARED
8/9/2024

ROUTE 109 STATE MO
DISTRICT SL SHEET NO. 1
COUNTY ST. LOUIS
JOB NO. JSL0077
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

LENGTH OF PROJECT

BEGINNING OF PROJECT	STA. 26+66.14
END OF PROJECT	STA. 270+08.00
APPARENT LENGTH	24,341.86 FEET
EQUATIONS:	

EXCEPTIONS:	
STA 107+53.00 TO STA 115+68.00	-815.00 FEET
STA 232+64.00 TO STA 234+24.00	-160.00 FEET

TOTAL CORRECTIONS	-975.00 FEET
NET LENGTH OF PROJECT	23,366.86 FEET
STATE LENGTH	4.426 MILES

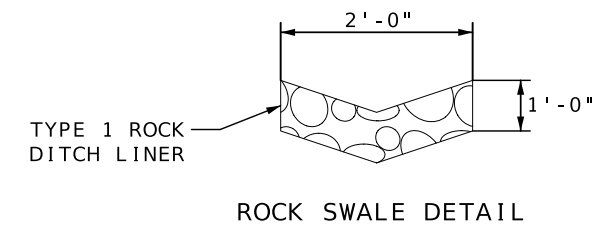
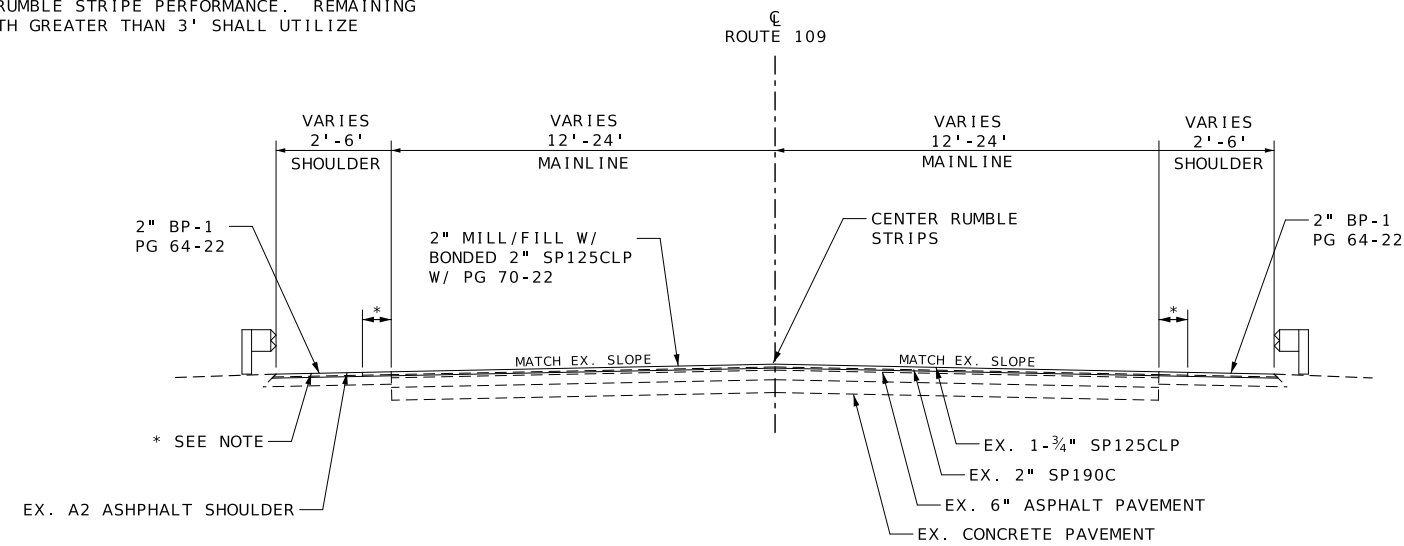
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0.10 ACRES
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TITLE

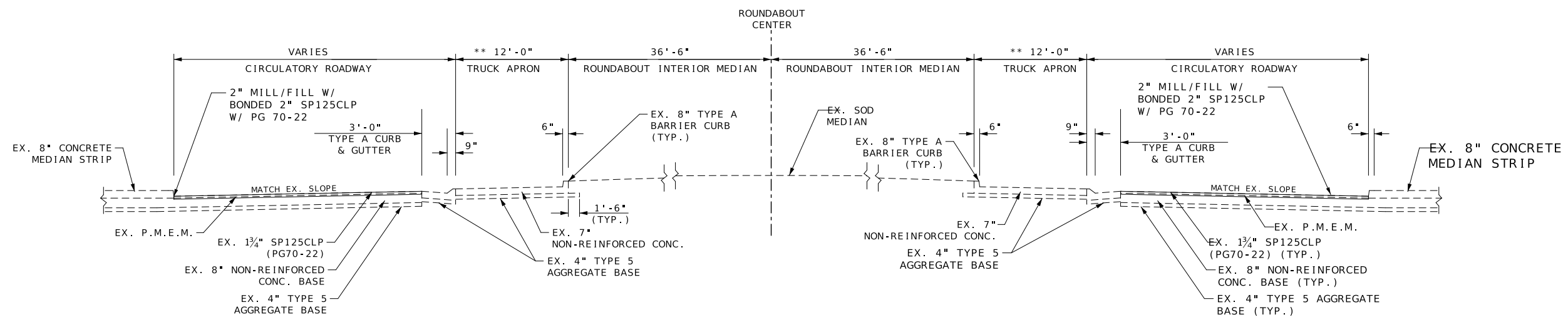
APPLICATION RATES	
SP125CLP w/ PG 70-22:	1.94 TONS/CY
BP-1 w/ PG 64-22:	1.96 TONS/CY
TACK COAT:	0.10 GAL/SY



TYPICAL SECTION - ROUTE 109 ON TANGENT

STA 71+07 TO STA 108+04
STA 114+78 TO STA 232+64
STA 234+24 TO STA 270+08

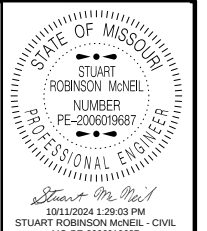
NOT TO SCALE



TYPICAL SECTION - ROUTE 109/ROUTE 100 ROUNDABOUT

STA 27+27 TO STA 28+91

NOT TO SCALE



MO-PE-2006019887	
DATE PREPARED	
10/8/2024	
ROUTE	STATE
109	MO
DISTRICT	SHEET NO.
SL	2
COUNTY	
ST. LOUIS	
JOB NO.	
JSL0077	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

TYPICAL SECTIONS
SHEET 1 OF 9



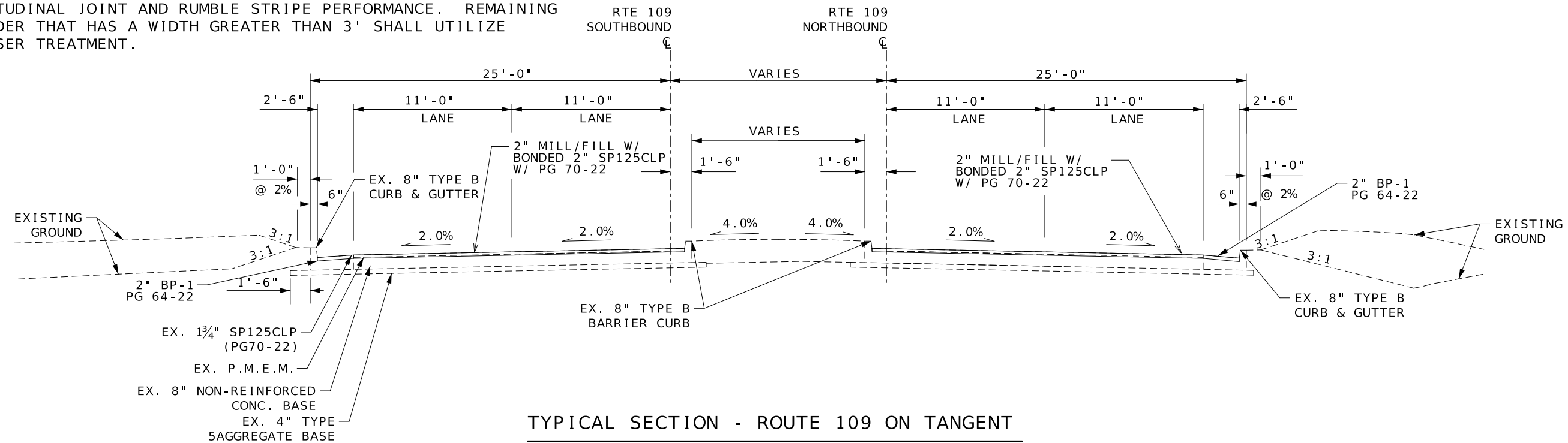
P.M.E.M = POLYMER MODIFIED EMULSION MEMBRANE



P.M.E.M = POLYMER MODIFIED EMULSION MEMBRANE



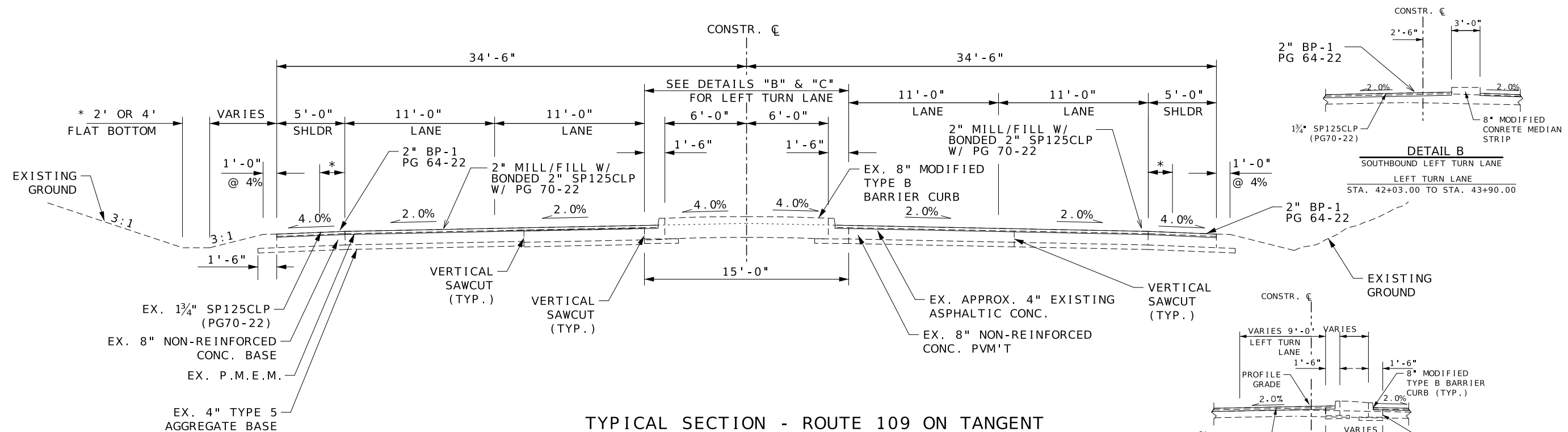
* EXTEND MAINLINE TREATMENT ONTO SHOULDER 18-INCHES FOR A GOOD LONGITUDINAL JOINT AND RUMBLE STRIPE PERFORMANCE. REMAINING SHOULDER THAT HAS A WIDTH GREATER THAN 3' SHALL UTILIZE A LESSER TREATMENT.



TYPICAL SECTION - ROUTE 109 ON TANGENT

STA. 31+74 TO STA. 31+91

NOT TO SCALE



TYPICAL SECTION - ROUTE 109 ON TANGENT

STA. 31+91 TO STA. 35+24
STA. 41+97 TO STA. 46+32

DETAIL C
SOUTHBOUND LEFT TURN LANE
TAPERS (9'-0" TO 0'-0")
STA. 43+90.00 TO STA. 44+80.00

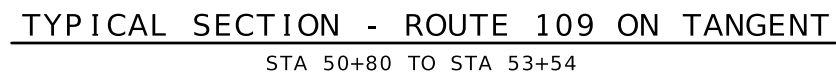
NOT TO SCALE

STATE OF MISSOURI
STUART ROBINSON MONEIL
NUMBER
PE-2006019687
PROFESSIONAL ENGINEER
10/11/2024 1:29:34 PM
STUART ROBINSON MONEIL - CIVIL
MO-PE-2006019687
DATE PREPARED
10/8/2024
ROUTE
109
STATE
MO
DISTRICT
SL
SHEET NO.
2
COUNTY
ST. LOUIS
JOB NO.
JSL0077
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

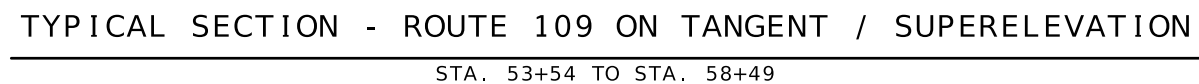
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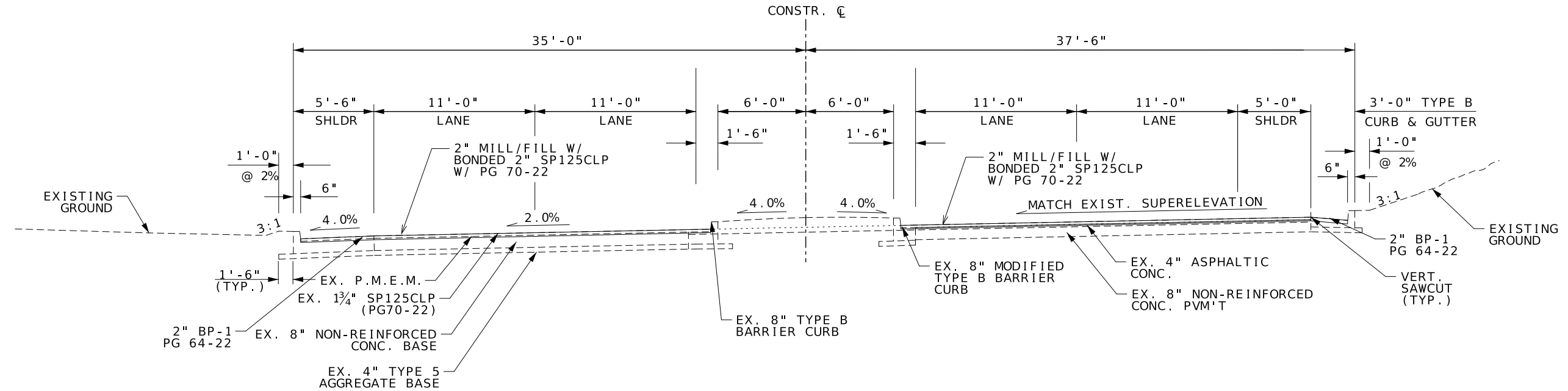
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
TYPICAL SECTIONS
SHEET 3 OF 9



NOT TO SCALE

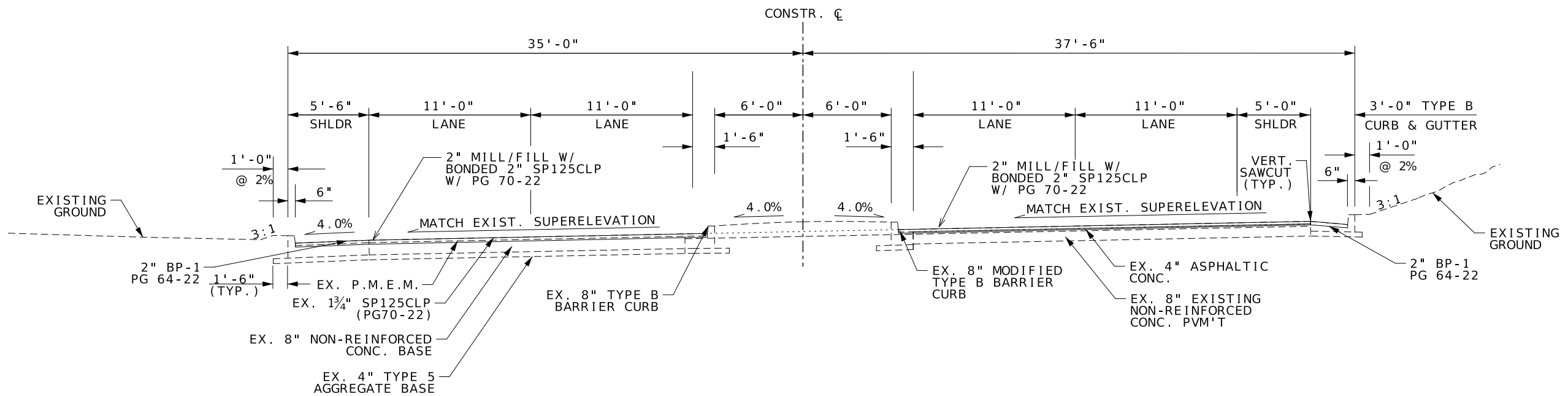
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TYPICAL SECTION - ROUTE 109 ON SUPERELEVATION

STA. 58+49 TO STA. 60+19

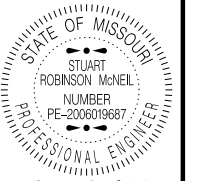
NOT TO SCALE



TYPICAL SECTION - ROUTE 109 ON SUPERELEVATION

STA. 60+19 TO STA. 64+38

NOT TO SCALE



STUART ROBINSON MONEL
10/11/2024 1:30:18 PM
STUART ROBINSON MONEL - CIVIL
MO-PE-2006019687

DATE PREPARED
10/8/2024

ROUTE 109 STATE MO

DISTRICT SL SHEET NO. 2

COUNTY ST. LOUIS

JOB NO. JSL0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

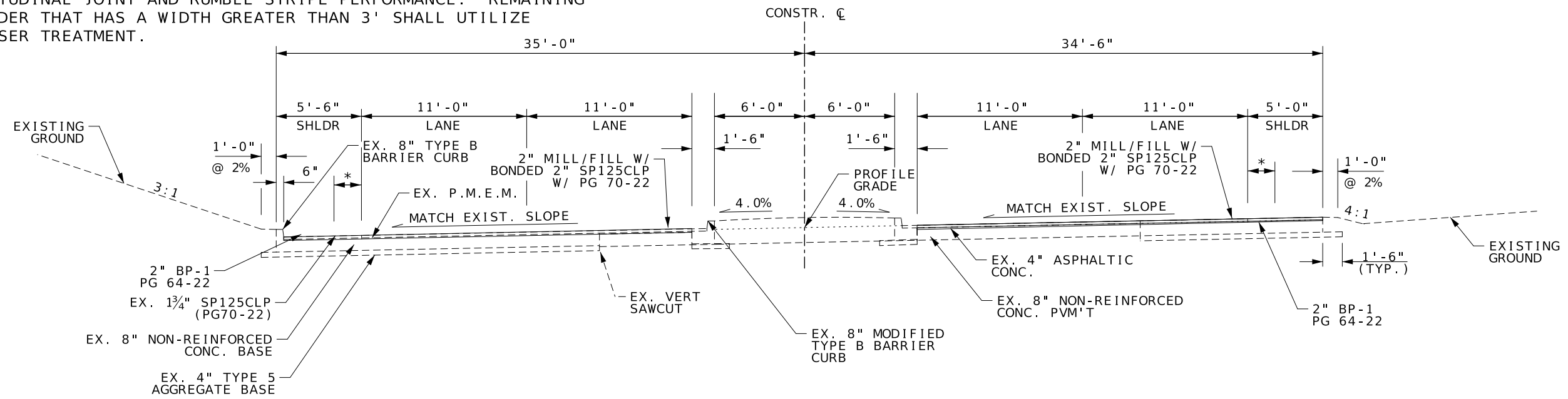
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MODOT

TYPICAL SECTIONS

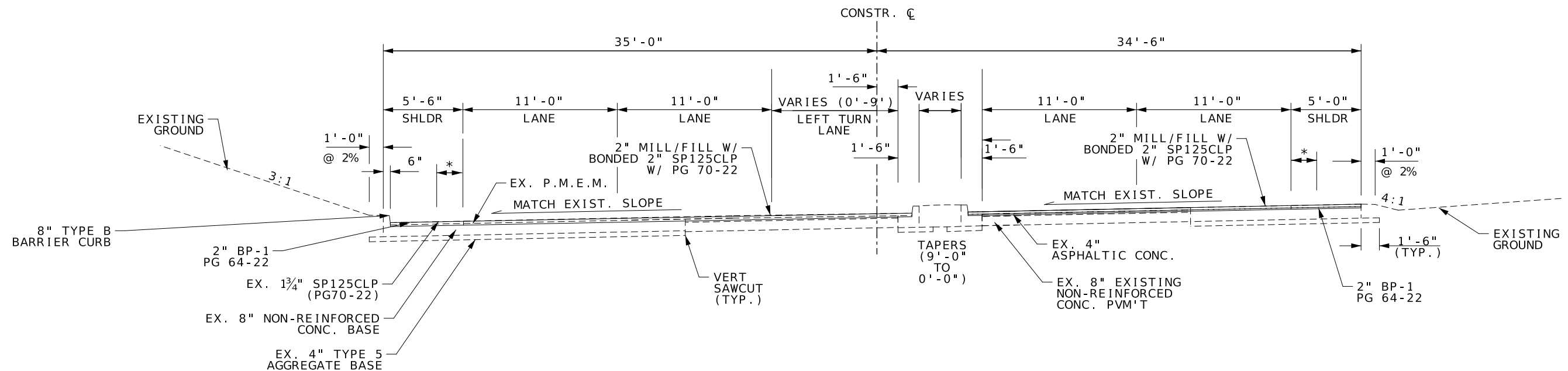
SHEET 6 OF 9

* EXTEND MAINLINE TREATMENT ONTO SHOULDER 18-INCHES FOR A GOOD LONGITUDINAL JOINT AND RUMBLE STRIPE PERFORMANCE. REMAINING SHOULDER THAT HAS A WIDTH GREATER THAN 3' SHALL UTILIZE A LESSER TREATMENT.



TYPICAL SECTION - ROUTE 109 ON SUPERELEVATION

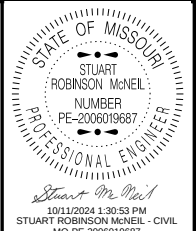
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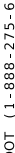
TYPICAL SECTION - ROUTE 109 ON SUPERELEVATION

STA. 65+44 TO STA. 66+34

NOT TO SCALE



WUJFE-ZU0603130617	
DATE PREPARED	
10/8/2024	
ROUTE	STATE
109	MO
DISTRICT	SHEET NO.
SL	2
COUNTY	
ST. LOUIS	
JOB NO.	
SL0077	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

[illegible]

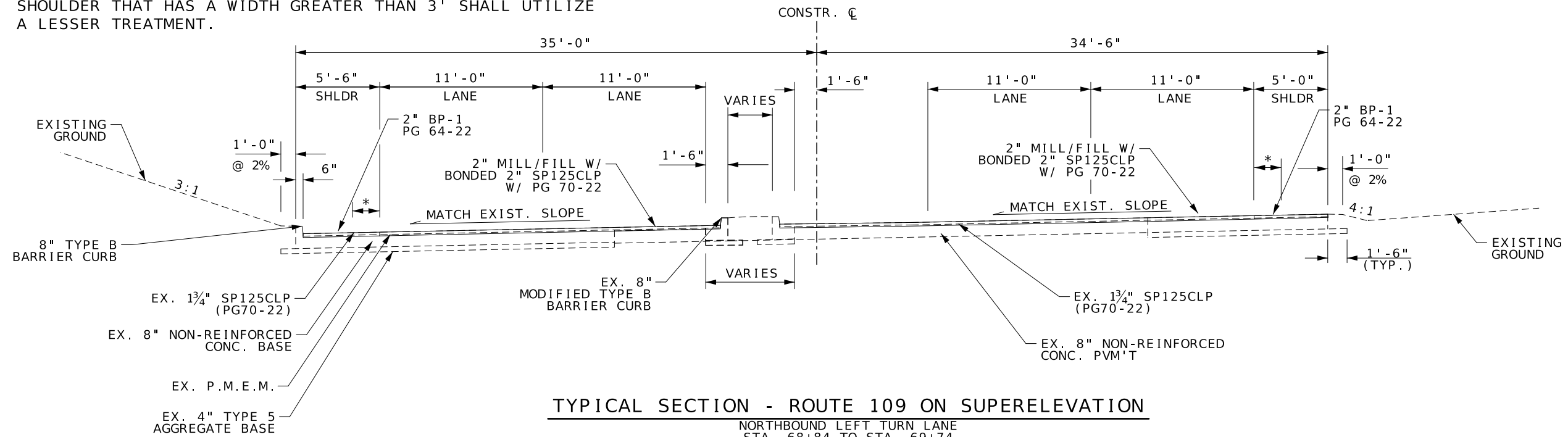
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

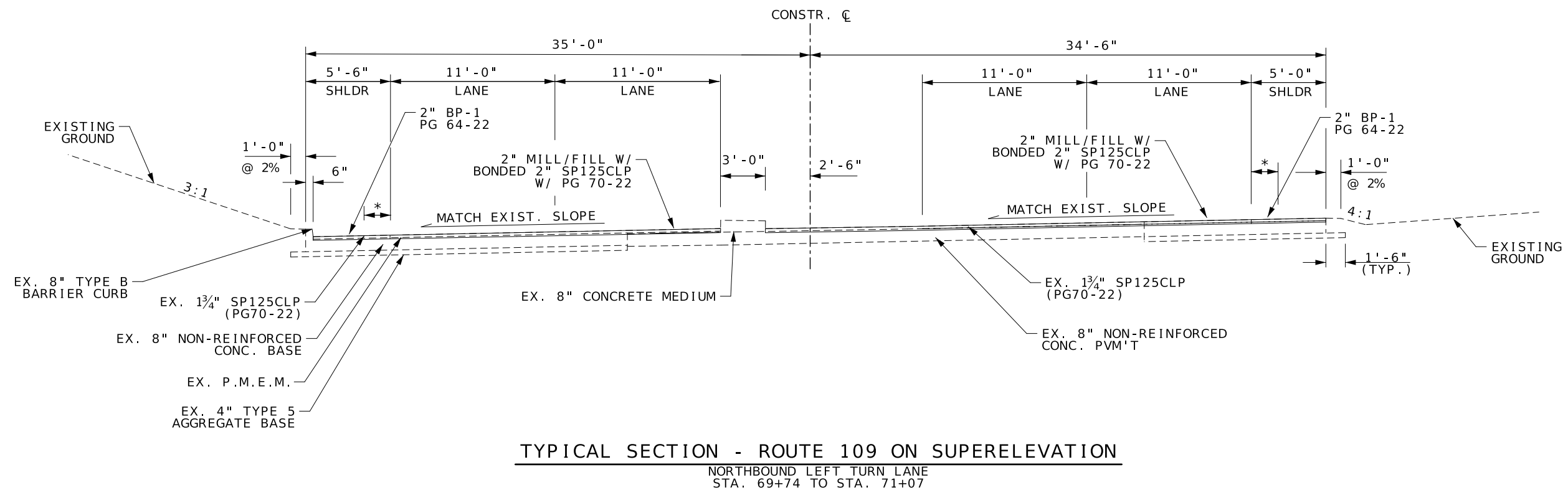
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TYPICAL SECTIONS
SHEET 8 OF 9

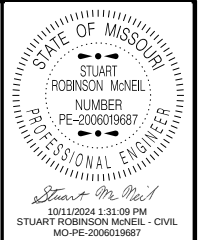
* EXTEND MAINLINE TREATMENT ONTO SHOULDER 18-INCHES FOR A GOOD LONGITUDINAL JOINT AND RUMBLE STRIPE PERFORMANCE. REMAINING SHOULDER THAT HAS A WIDTH GREATER THAN 3' SHALL UTILIZE A LESSER TREATMENT.



NOT TO SCALE



NOT TO SCALE



DATE PREPARED	
10/8/2024	
ROUTE	STATE
109	MO
DISTRICT	SHEET NO.
SL	2
COUNTY	
ST. LOUIS	
JOB NO.	
SL0077	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

TYPICAL SECTIONS
SHEET 9 OF 9

ROCK DITCH LINER AND LINEAR GRADING												
PLAN SHEET NO.	STA	STA	RDWY	LOC	PERMANENT EROSION CONTROL GEOTEXTILE S.Y.	FURNISHING TYPE 1 ROCK DITCH LINER C.Y.	PLACING TYPE 1 ROCK DITCH LINER C.Y.	FURNISHING TYPE 2 ROCK DITCH LINER C.Y.	PLACING TYPE 2 ROCK DITCH LINER C.Y.	LINEAR GRADING CLASS 2 MODIFIED STA.	CLEARING VEGETATION AND DEBRIS AC.	REMARKS
7	87+62.00	89+06.00	109	RT	112.2			37.4	37.4	1.4		
9	142+35.00	142+85.00	109	LT	55.6			18.5	18.5	0.5		
10	175+80.00	177+40.00	109	LT	174.7	58.2	58.2			1.6		
12	237+90.00	240+10.00	109	LT	97.8			32.6	32.6	2.2	0.2	
13	259+05.00	262+42.00	109	LT	75.6	25.2	25.2			3.4		
6	52+00.00	65+50.00	109	CL						2.8		SIDEWALK AND ISLANDS
TOTALS					515.9	83.4	83.4	88.5	88.5	11.9	0.2	
PAY TOTALS					516.0	84.0	84.0	89.0	89.0	11.9	0.2	

ISLANDS, SIDEWALK, CURB, TUBULAR MARKERS, CURB REFLECTORS																
PLAN SHEET NO.	STA	STA	LOC	RDWY	AREA S.F.	6 IN. CONCRETE MEDIAN STRIP S.Y.	4 IN. CONCRETE SIDEWALK S.Y.	TYPE 5 AGG. BASE 4 IN. THICK S.Y.	CONCRETE CURB TYPE S UNDER 6 IN. L.F.	TRUNCATED DOMES S.F.	10 FT WIDE ADA CURB RAMP EA.	4 IN. BOLT DOWN BOLLARD EA.	ISLAND TUBULAR MARKERS EA.	CURB REFLECTORS EA.	REMARKS	
6	70+96.35	71+03.50	RT	109	502.0		55.8	55.8				1.0				
6	71+03.50	71+18.70	RT	109						20.0	1.0				MOD. SM RAD. PERP RAMP	
6	71+17.90	71+46.21	43' RT	109	429.0	36.3							3.0	3.0	ISLAND	
6	71+30.35	71+46.21	43' RT	109	78.9		20.2	20.2		40.2					ISLAND CUT-THRU	
6	71+88.46	72+14.89	38' RT	109	244.0	17.9							3.0	3.0	ISLAND	
6	71+88.46	72+04.22	38' RT	109	111.7		21.6	21.6		60.5					ISLAND CUT-THRU	
6	71+93.20	72+44.26	36' LT	109					50.0							
6	72+05.92	72+19.04	LT	109						21.9	1.0				MOD. SM RAD. PERP RAMP	
6	72+10.22	72+16.85	RT	109						20.0	1.0				MOD. SM RAD. PERP RAMP	
6	72+16.85	72+34.91	RT	109	132.0		14.7	14.7				1.0				
6	72+19.04	72+42.91	LT	109	353.2		39.2	39.2				1.0				
								73.6							PAVEMENT REPAIRS	
TOTALS						54.2	151.5	225.1	50.0	162.6	3.0	3.0	6.0	6.0		
PAY TOTALS						54.2	151.5	226.0	50.0	163.0	3.0	3.0	6.0	6.0		

PERMANENT PAVEMENT MARKING THERMOPLASTIC																						
PLAN SHEET NO.	STA	STA	RDWY																		REMARKS	
				PREFORMED THERMOPLASTIC PAVEMENT MARKING																		
				YIELD TRIANGLES	24" SW STOP BAR	24" S.Y. 45 DEG L.F.	LEFT TURN ARROW EA	RIGHT TURN ARROW EA	STRAIGHT ARROW EA	ST-RT ARROW EA	ST-LT ARROW EA	FISH HOOK ARROW						BIKE LANE ARROW EA	BIKE LANE SYMBOL EA	"ONLY" TEXT EA		MID BLOCK 10 FT. WIDE EA
												ST-LT ARROW EA	ST-RT ARROW EA	ST-LT-RT ARROW EA	LEFT ARROW EA	STRAIGHT ARROW EA						
77	26+48.45	38+50.00	109	61			1	1	3	1	3	2	1		1	2	2	2	3			
77	38+50.00	52+00.00	109	52		10.8	2		2		4	2	3	1		1	3	3		7		
78	1+40.00	5+00.00	RAMP					2				2			2				4			
79	52+00.00	65+50.00	109				2	1					1			1	3	3	3			
79	65+50.00	79+00.00	109	16	214.4		7	5			1						4	4	3	45		
80	79+00.00	92+50.00	109				4															
82	133+00.00	146+50.00	109				1															
82	146+50.00	160+00.00	109				1															
83	173+50.00	187+00.00	109				2															
85	227+50.00	241+00.00	109	20	22.4																	
TOTALS				149.0	236.8	10.8	20.0	9.0	5.0	1.0	8.0	6.0	5.0	1.0	3.0	4.0	12.0	12.0	13.0	52.0		
PAY TOTALS				149.0	237	11	29.0		5.0	9.0			12.0			3.0	4.0	12.0	12.0	13.0	52.0	

STATE OF MISSOURI

STUART ROBINSON McNEIL

NUMBER PE-2006019687

PROFESSIONAL ENGINEER

Stuart McNeil

10/09/2024 3:37:03 PM

STUART ROBINSON McNEIL - CIVIL

MO-PE-2006019687

DATE PREPARED
10/9/2024

ROUTE
109

STATE
MO

DISTRICT
SL

SHEET NO.
3

COUNTY
ST. LOUIS

JOB NO.
JSL0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

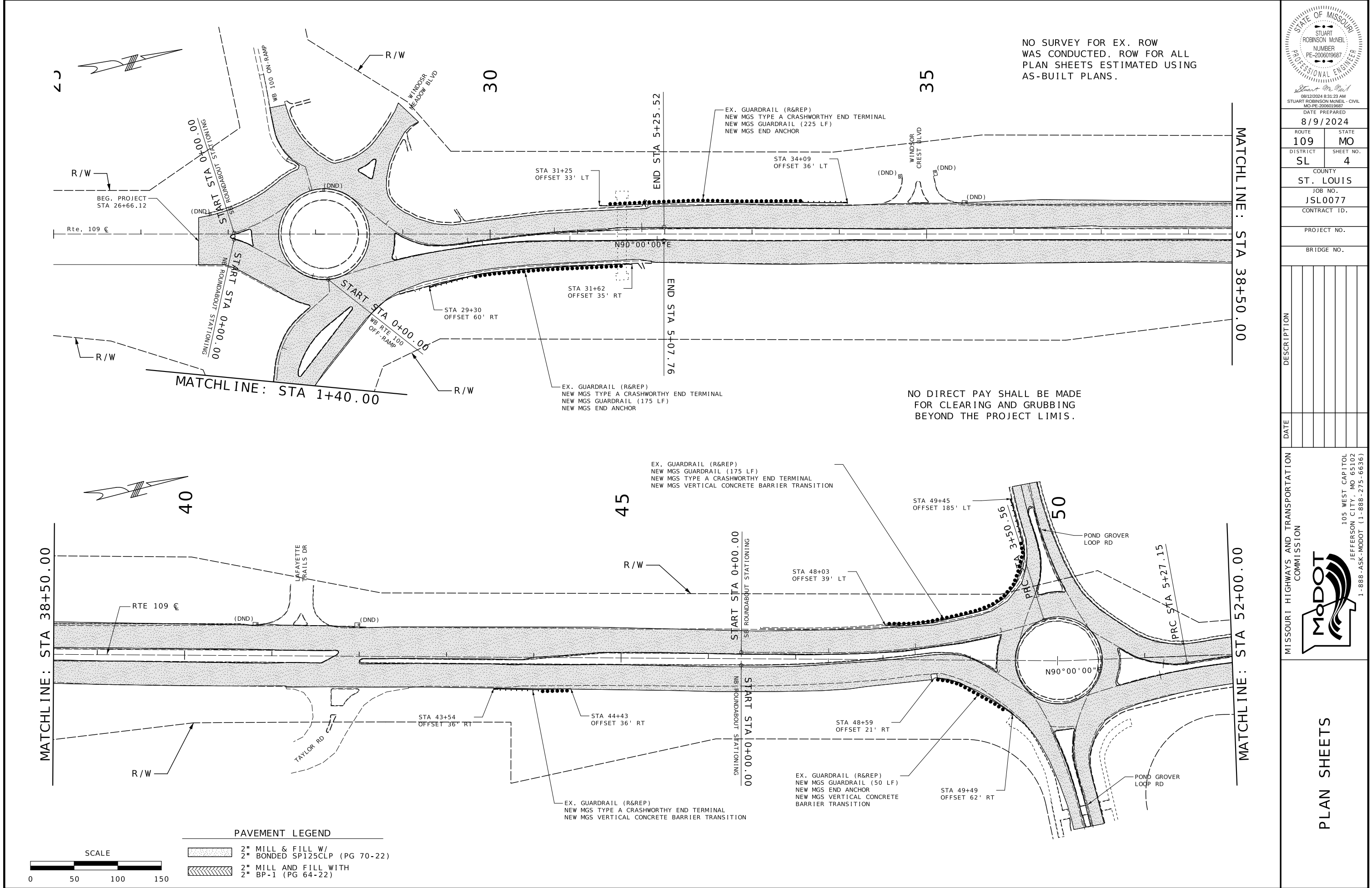
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT

QUANTITY SHEET
SHEET 4 OF 7



NO SURVEY FOR EX. ROW
WAS CONDUCTED. ROW FOR ALL
PLAN SHEETS ESTIMATED USING
AS-BUILT PLANS.

NO DIRECT PAY SHALL BE MADE
FOR CLEARING AND GRUBBING
BEYOND THE PROJECT LIMITS.

PAVEMENT LEGEND

[Pattern]	2" MILL & FILL W/ 2" BONDED SPI25CLP (PG 70-22)
[Pattern]	2" MILL AND FILL WITH BP-1 (PG 64-22)

STATE OF MISSOURI

STUART ROBINSON MCNEIL

NUMBER
PE-2006019687

PROFESSIONAL ENGINEER

08/12/2024 8:31:23 AM

STUART ROBINSON MCNEIL - CIVIL

MO-PE-2006019687

DATE PREPARED

8/9/2024

ROUTE

109

STATE

MO

DISTRICT

SL

SHEET NO.

4

COUNTY

ST. LOUIS

JOB NO.

JSL0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

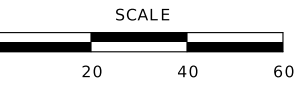
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

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

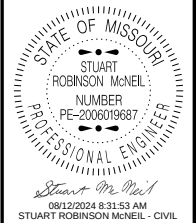
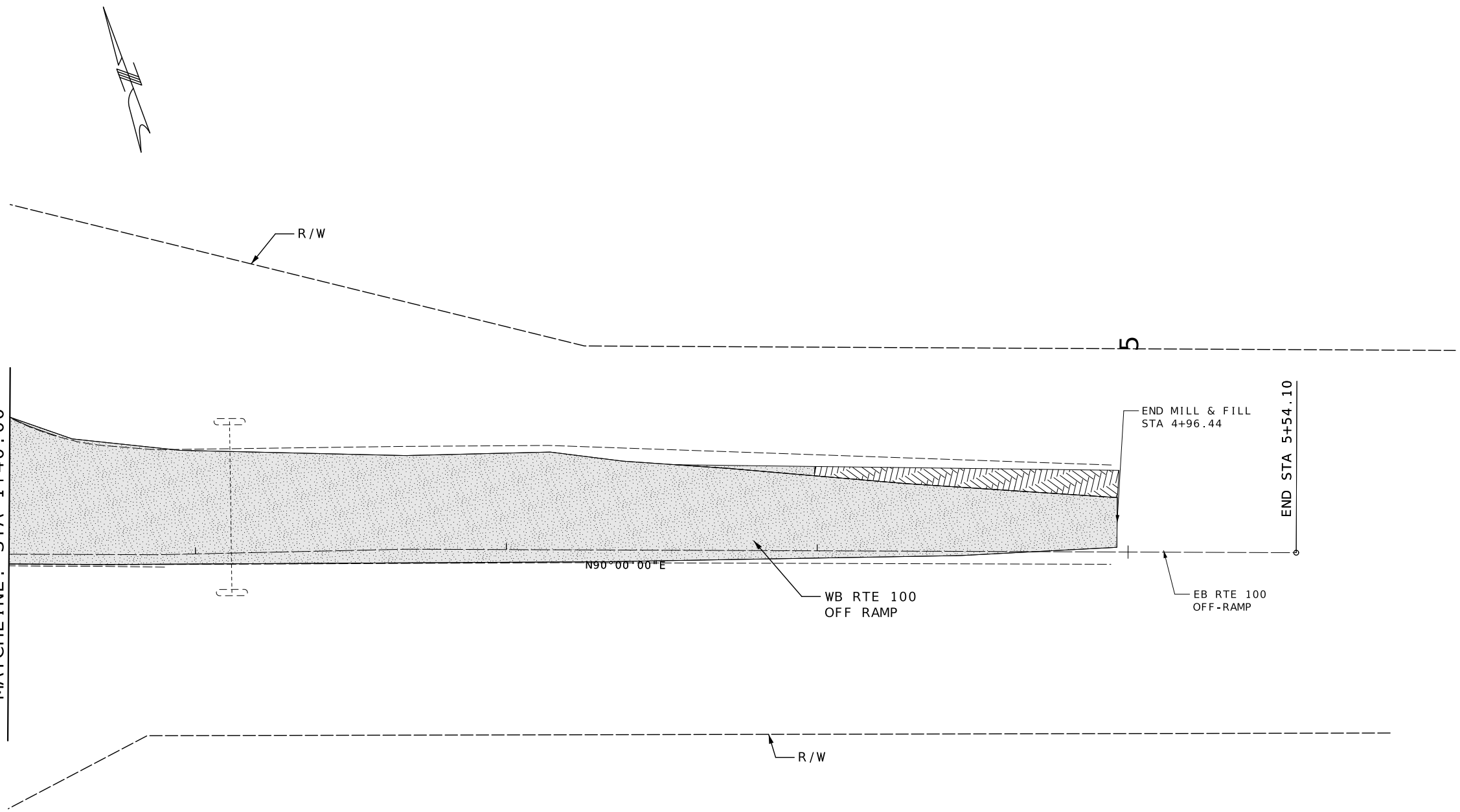
PLAN SHEETS



PAVEMENT LEGEND

-  2" MILL & FILL W/
2" BONDED SP125CLP (PG 70-22)
-  2" MILL AND FILL WITH
2" BP-1 (PG 64-22)

MATCHLINE: STA 1+40.00



DATE PREPARED 8/9/2024	
ROUTE 109	STATE MO
DISTRICT SL	SHEET NO. 5
COUNTY ST. LOUIS	
JOB NO. JSL0077	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

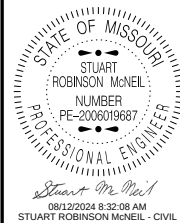
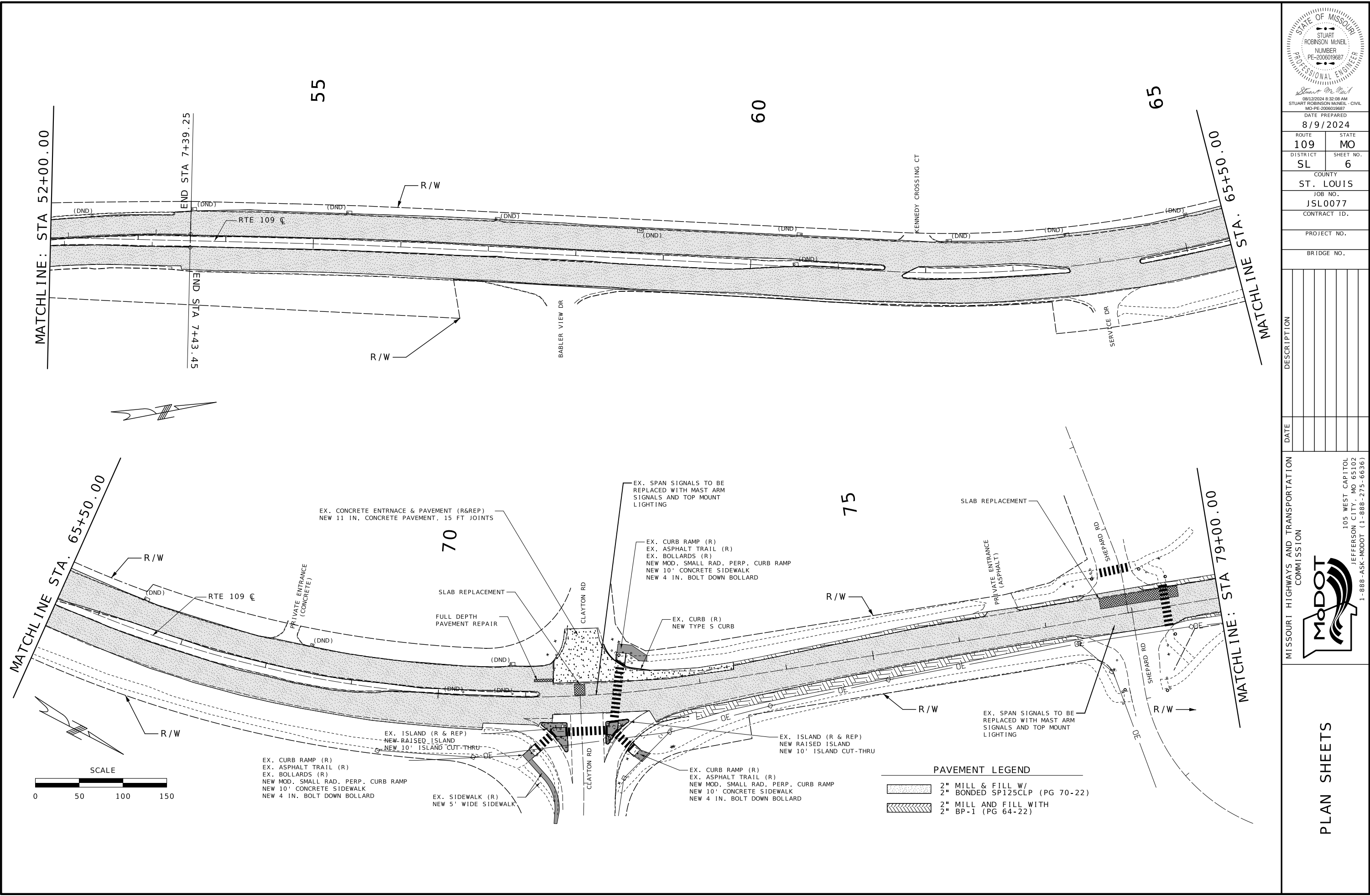
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

PLAN SHEETS



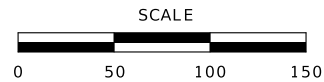
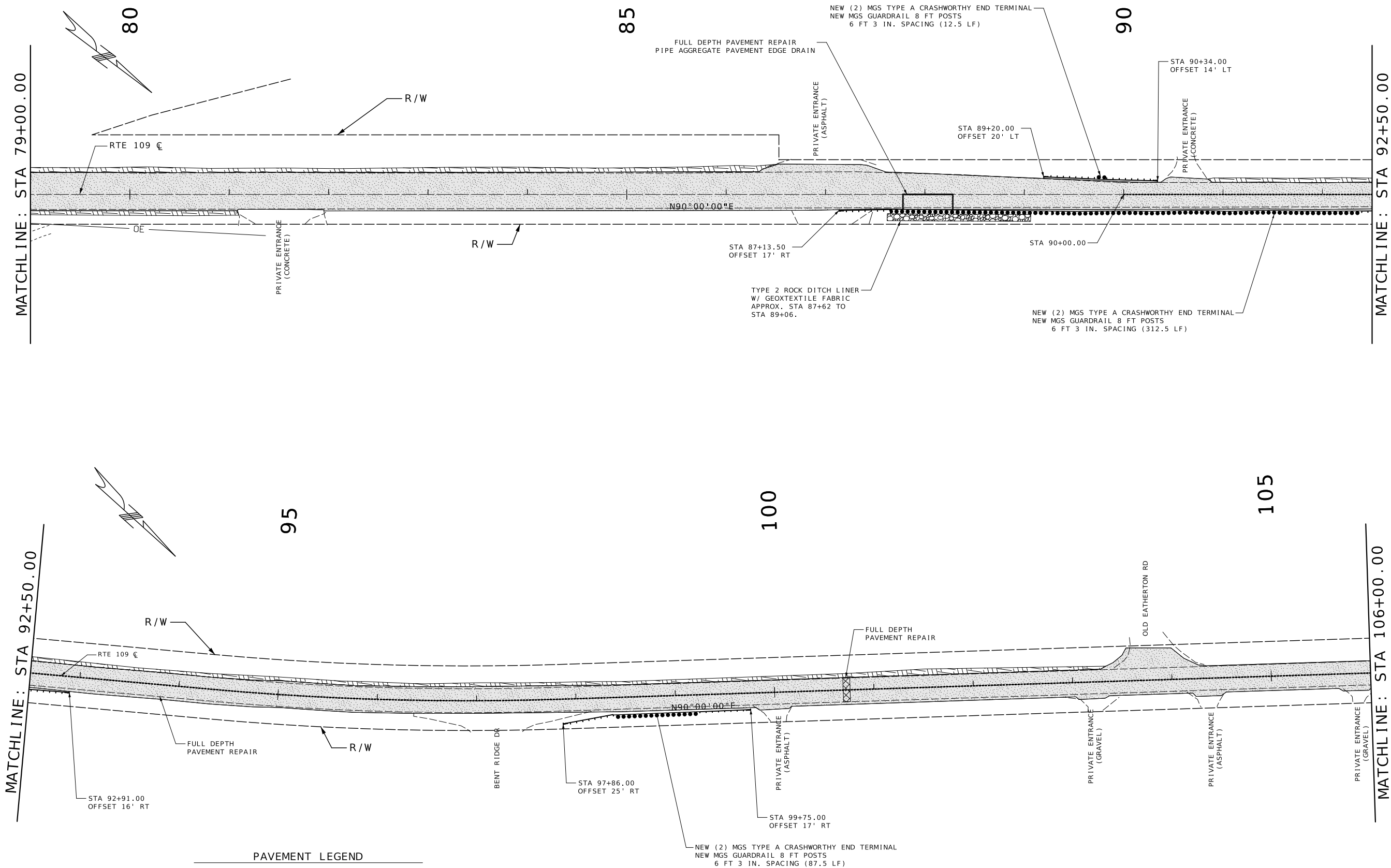
DATE PREPARED	
8/9/2024	
ROUTE	STATE
109	MO
DISTRICT	SHEET NO.
SL	6
COUNTY	
ST. LOUIS	
JOB NO.	
JSL0077	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

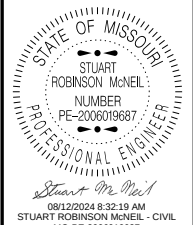
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEETS



PAVEMENT LEGEND	
	2" MILL & FILL W/ 2" BONDED SPI25CLP (PG 70-22)
	2" MILL AND FILL WITH 2" BP-1 (PG 64-22)
	12" CENTERLINE RUMBLE STRIP



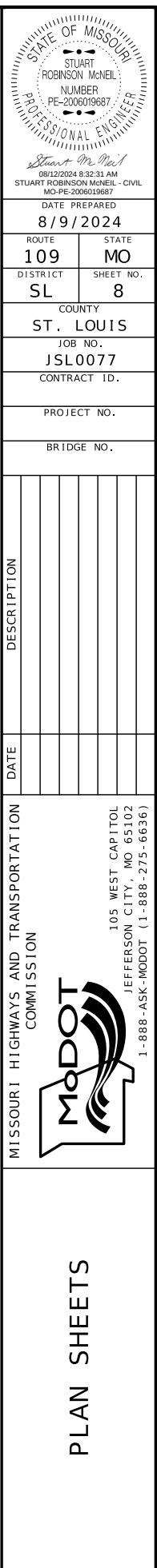
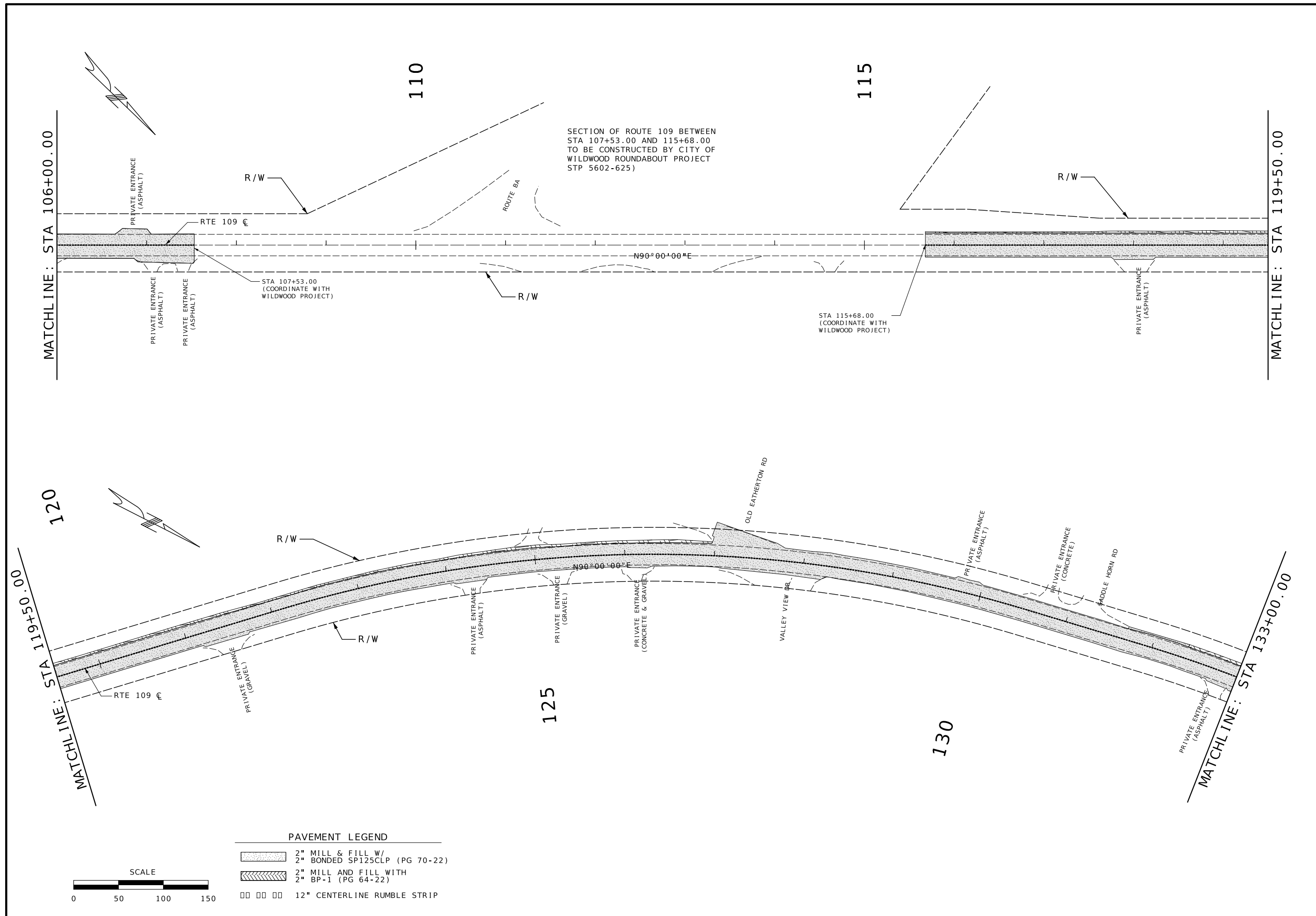
DATE PREPARED 8/9/2024	
ROUTE 109	STATE MO
DISTRICT SL	SHEET NO. 7
COUNTY ST. LOUIS	
JOB NO. JSL0077	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

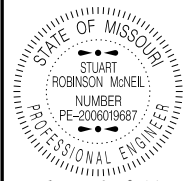
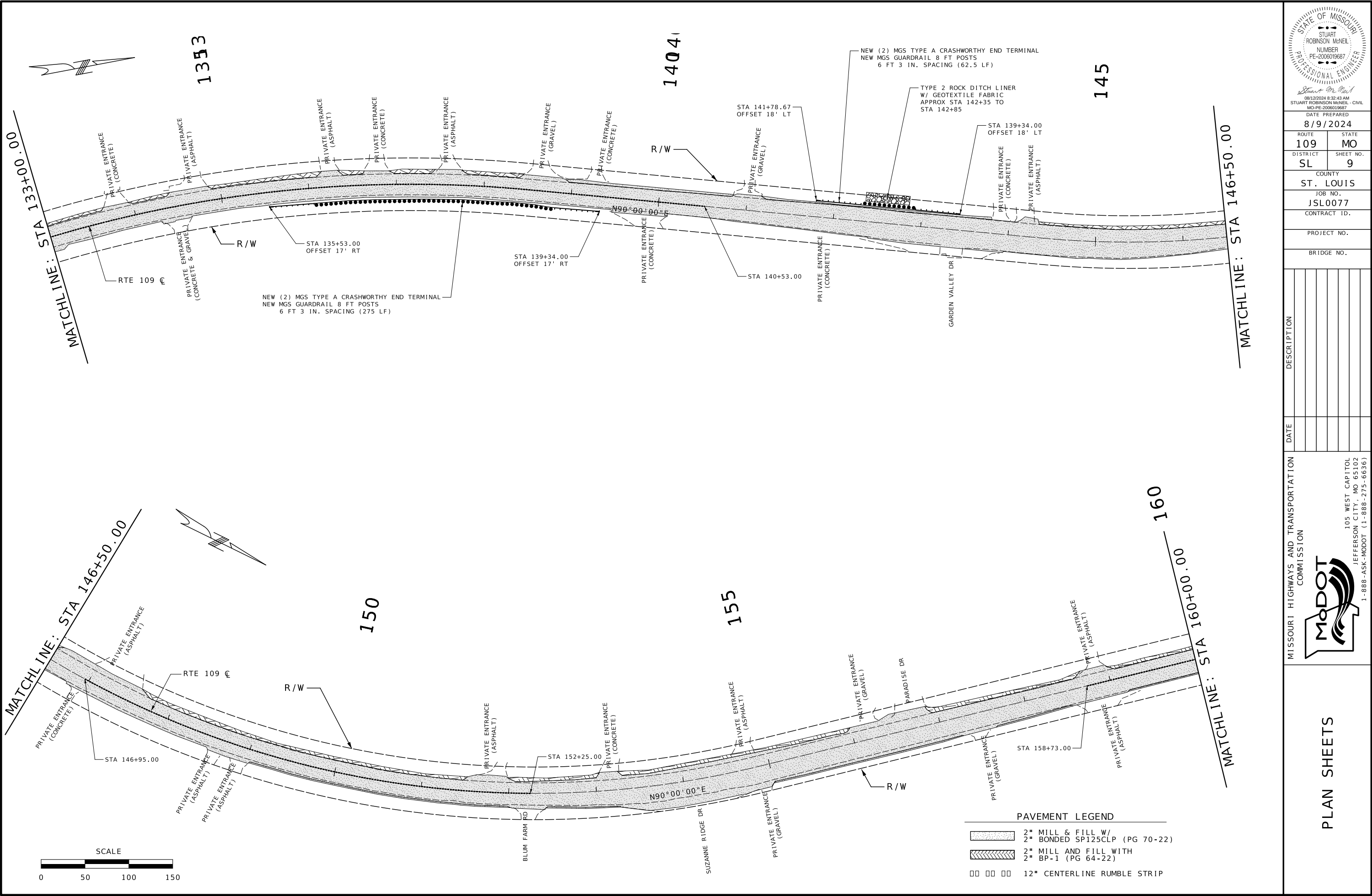
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEETS





DATE PREPARED	
8/9/2024	
ROUTE	STATE
109	MO
DISTRICT	SHEET NO.
SL	9
COUNTY	
ST. LOUIS	
JOB NO.	
JSL0077	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

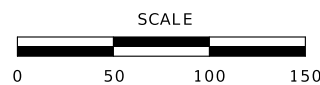
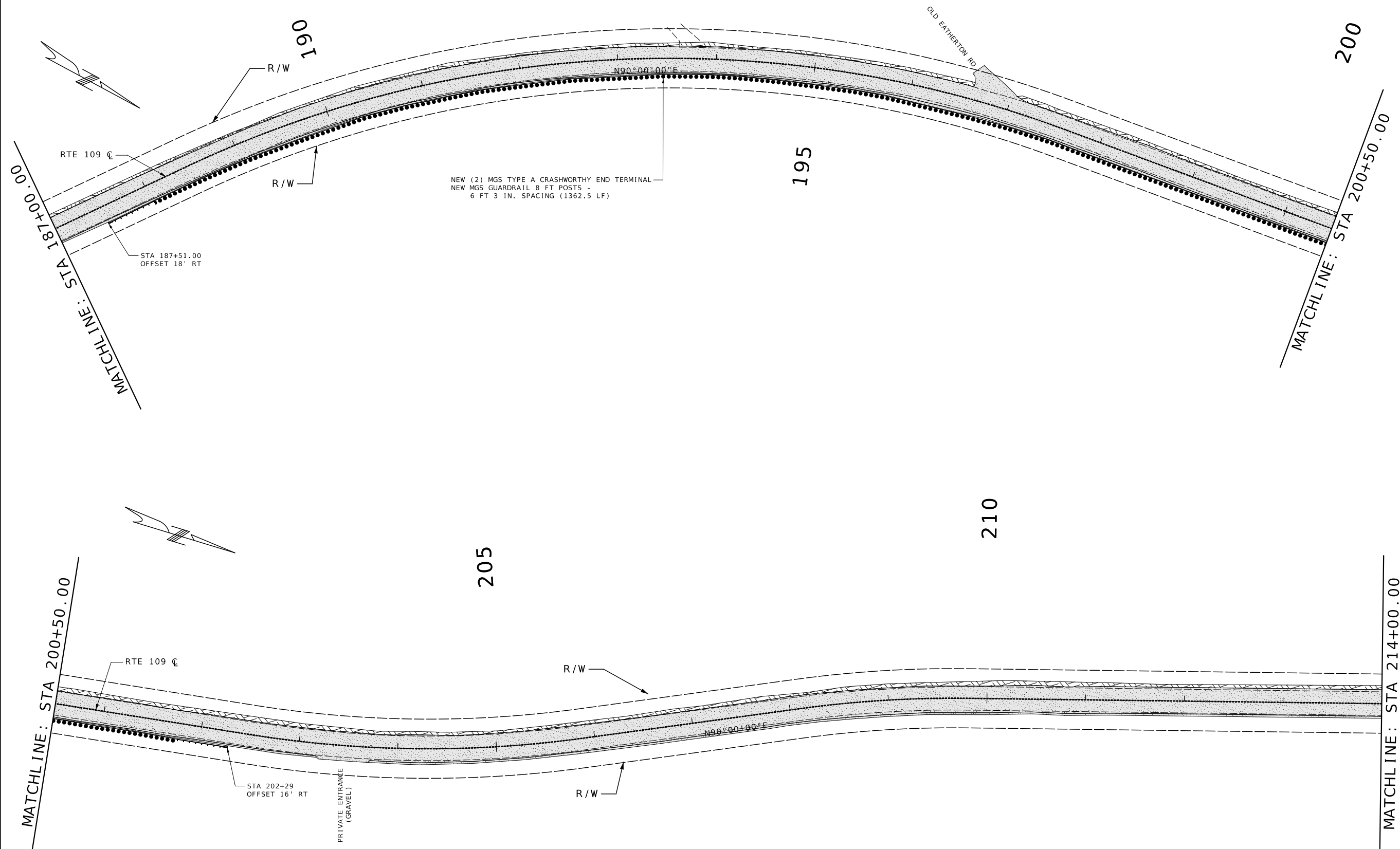
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

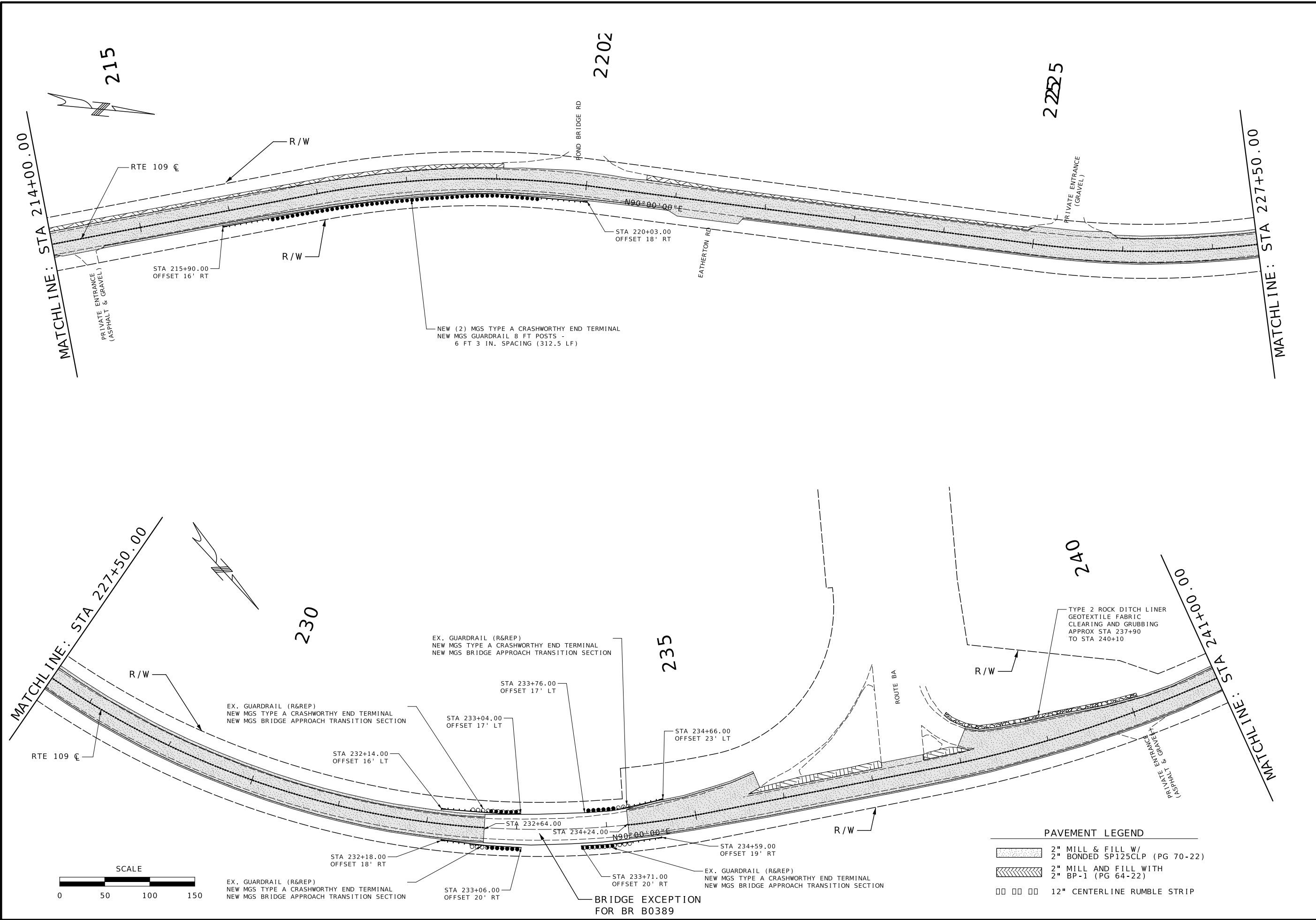
PLAN SHEETS

PAVEMENT LEGEND	
	2" MILL & FILL W/ 2" BONDED SP125CLP (PG 70-22)
	2" MILL AND FILL WITH 2" BP-1 (PG 64-22)
	12" CENTERLINE RUMBLE STRIP



PAVEMENT LEGEND	
	2" MILL & FILL W/ 2" BONDED SP125CLP (PG 70-22)
	2" MILL AND FILL WITH 2" BP-1 (PG 64-22)
	12" CENTERLINE RUMBLE STRIP

STATE OF MISSOURI	
STUART ROBINSON McNEIL NUMBER PE-2006019687 PROFESSIONAL ENGINEER	
<i>Stuart McNeil</i> 08/12/2024 8:33:01 AM STUART ROBINSON McNEIL - CIVIL MO-PE-2006019687	
DATE PREPARED 8/9/2024	
ROUTE 109	STATE MO
DISTRICT SL	SHEET NO. 11
COUNTY ST. LOUIS	
JOB NO. JSL0077	
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)	



STATE OF MISSOURI

STUART ROBINSON McNEIL

NUMBER

PE-2006019687

PROFESSIONAL ENGINEER

08/12/2024 8:33:11 AM

STUART ROBINSON McNEIL - CIVIL

MO-PE-2006019687

DATE PREPARED

8/9/2024

ROUTE

109

STATE

MO

DISTRICT

SL

SHEET NO.

12

COUNTY

ST. LOUIS

JOB NO.

JSL0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

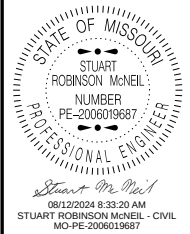
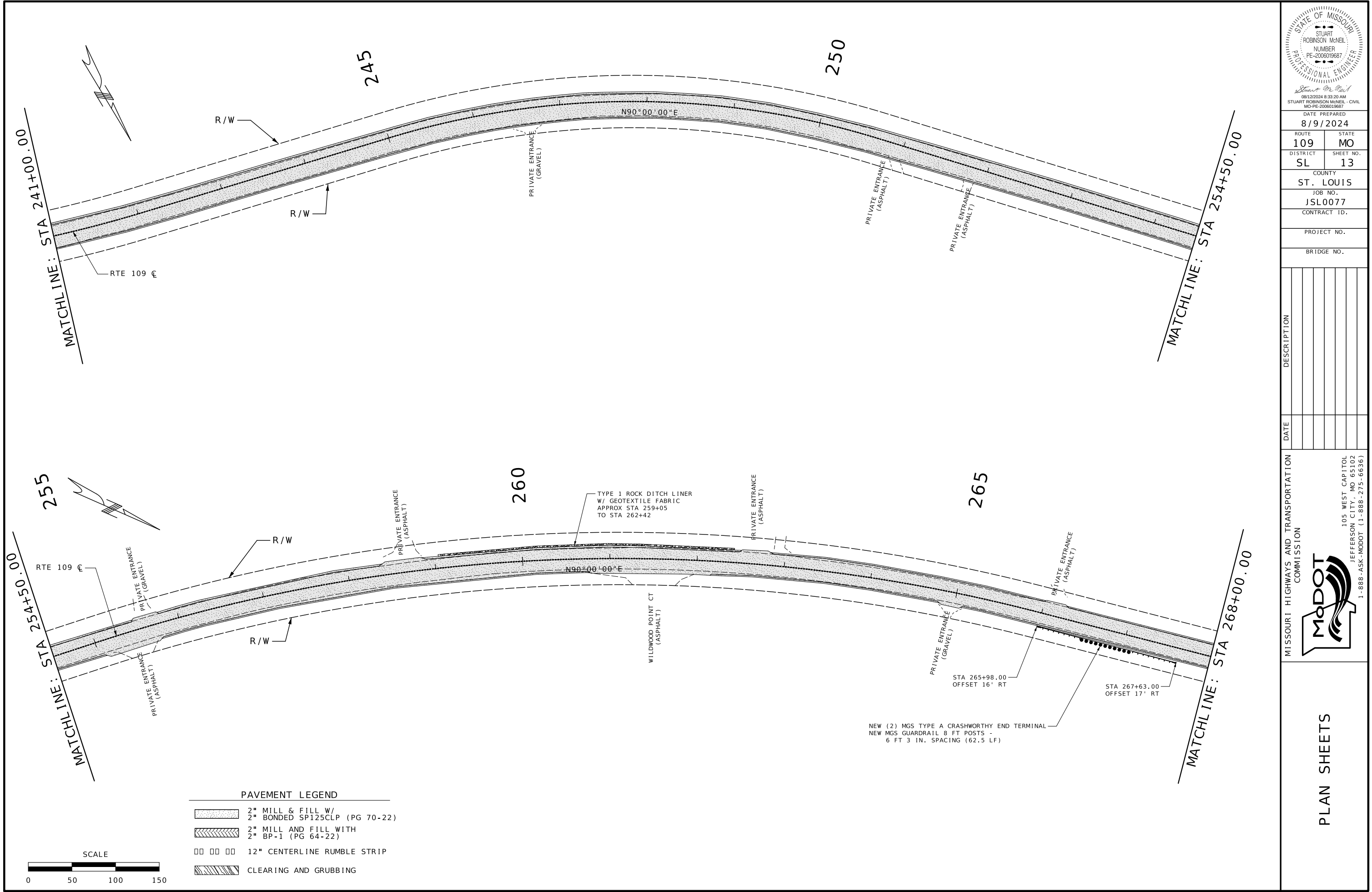
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

PLAN SHEETS



DATE PREPARED 8/9/2024	
ROUTE 109	STATE MO
DISTRICT SL	SHEET NO. 13
COUNTY ST. LOUIS	
JOB NO. JSL0077	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

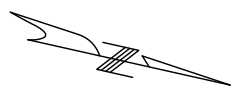
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

PLAN SHEETS

MATCHLINE: STA 268+00.00



270

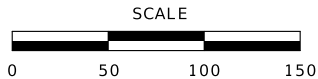
275

END STA 276+07.68

RTE 109 C
END PROJ.
STA 270+08.00
(COORDINATE WITH J6S3351)

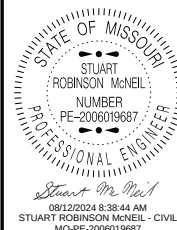
N90°00'00"E

R/W
R/W



PAVEMENT LEGEND

- 2" MILL & FILL W/
2" BONDED SPI25CLP (PG 70-22)
- 2" MILL AND FILL WITH
BP-1 (PG 64-22)
- 12" CENTERLINE RUMBLE STRIP



DATE PREPARED 8/9/2024	
ROUTE 109	STATE MO
DISTRICT SL	SHEET NO. 14
COUNTY ST. LOUIS	
JOB NO. JSL0077	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

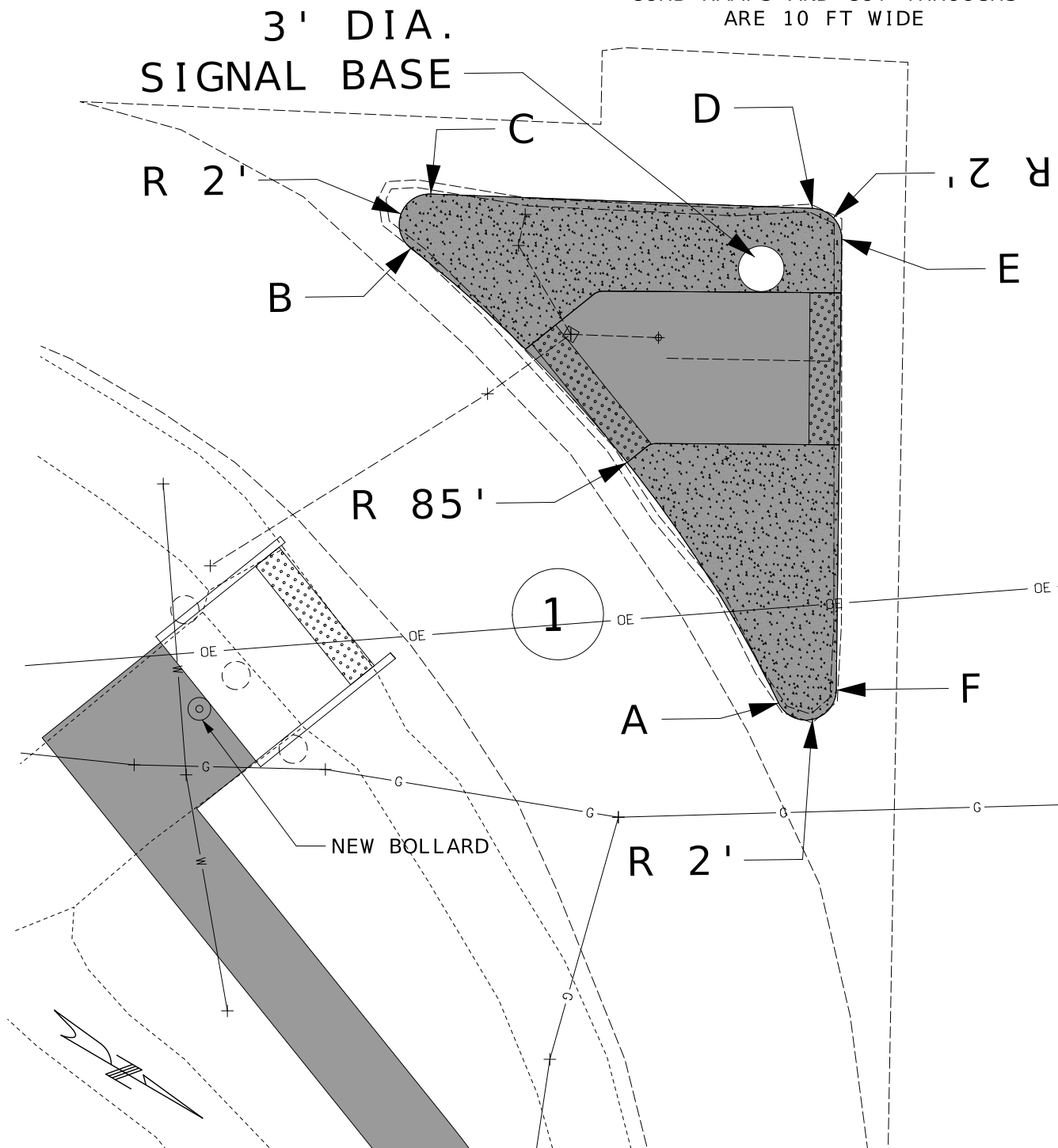
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

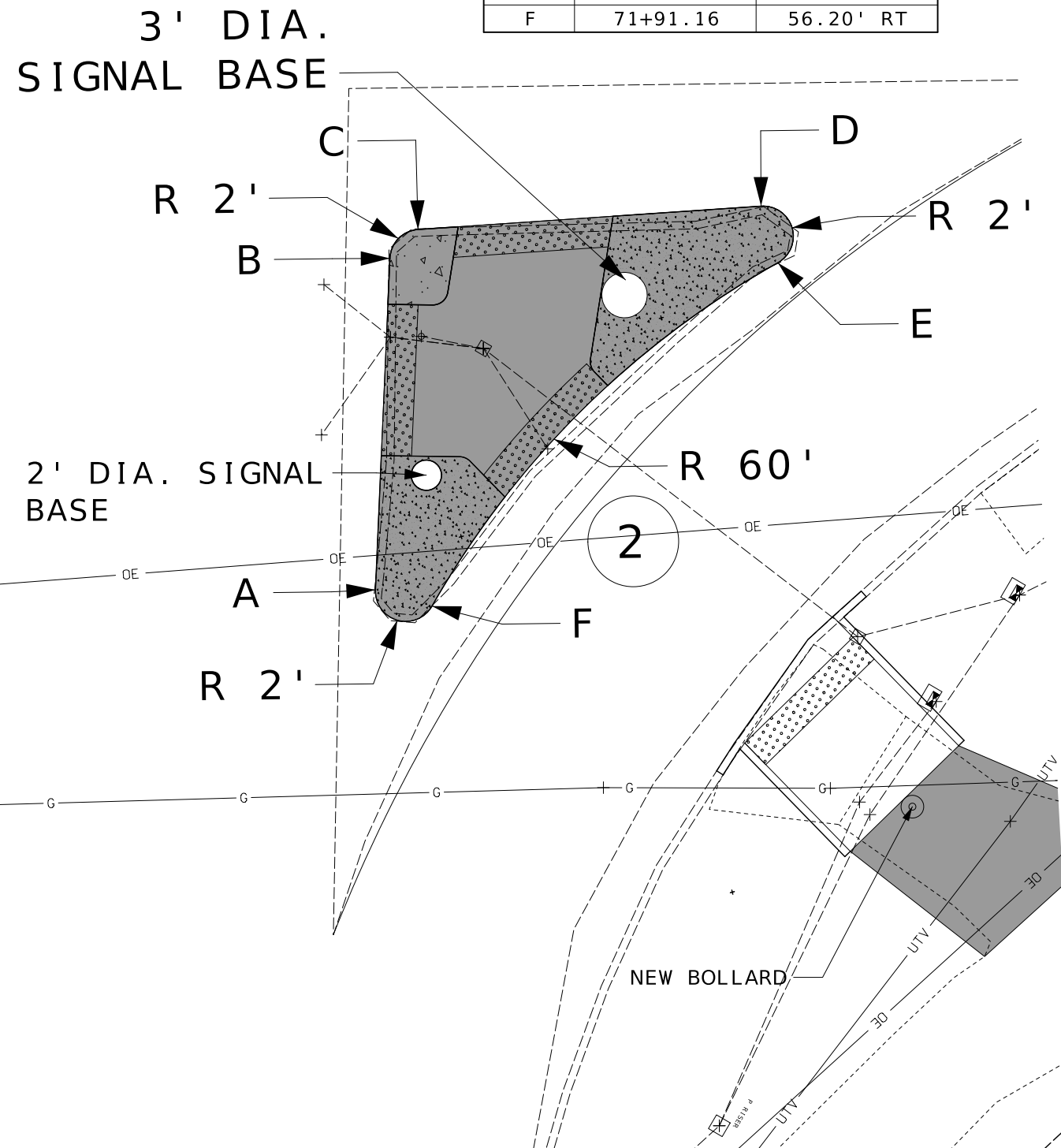


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

ISLAND 1		
Pt.	STATION	OFFSET
A	71+42.65	62.54' RT
B	71+18.64	33.22' RT
C	71+19.49	29.61' RT
D	71+44.30	29.97' RT
E	71+46.21	31.95' RT
F	71+46.21	61.63' RT



ISLAND 2		
Pt.	STATION	OFFSET
A	71+87.45	55.03' RT
B	71+88.94	33.16' RT
C	71+90.85	31.30' RT
D	72+13.22	30.44' RT
E	72+14.20	34.22' RT
F	71+91.16	56.20' RT



08/12/2024 8:38:55 AM
STUART ROBINSON McNEIL - CIVIL

MO-PE-2006019687
DATE PREPARED
8/9/2024

ROUTE	STATE
109	MO

DISTRICT	SHEET NO.
SL	15

COUNTY
ST. LOUIS

JOB NO.
JSL0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

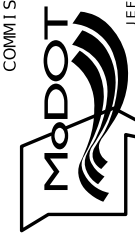
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

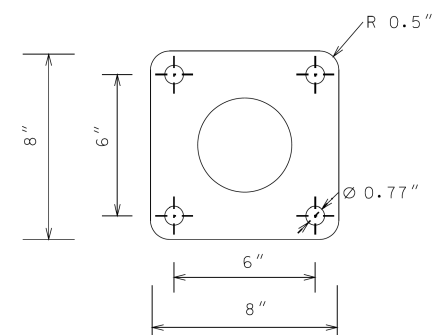
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT / 1-888-275-6626

SPECIAL SHEET
ISLANDS

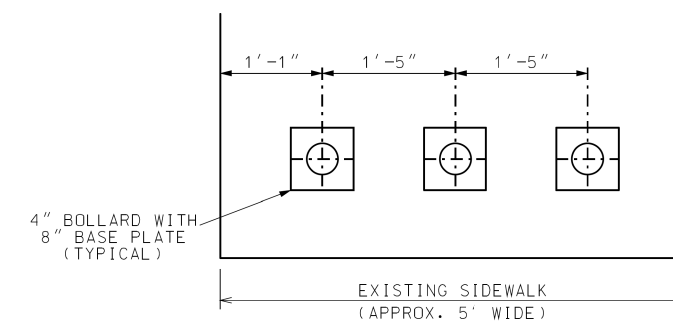
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1 888 ASK MODOOT (1 888 275 6636)



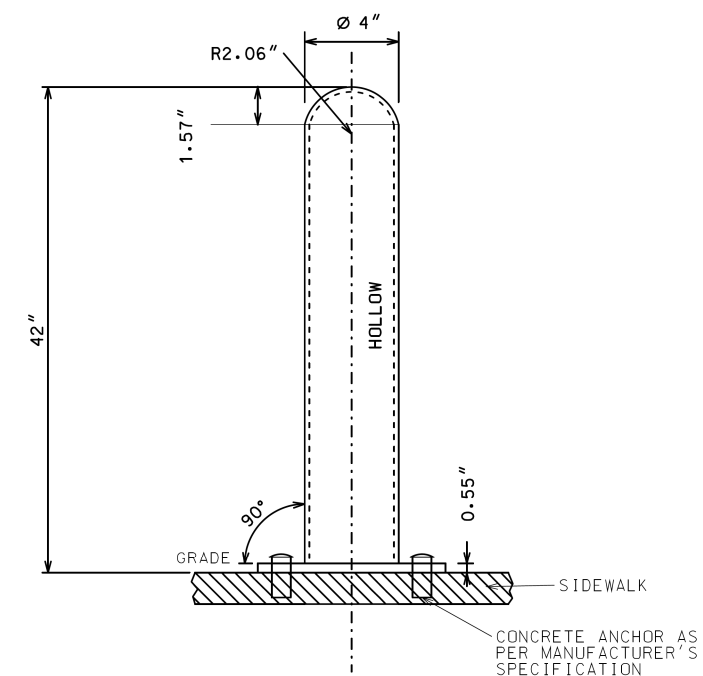
NOT TO SCALE



BASE PLATE DETAIL



PLAN DETAIL

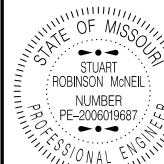


4" BOLT DOWN BOLLARD

SPECIFICATIONS:

4" OD SCHEDULE 40 STEEL
POWDER COATED YELLOW WITH CAP
AND 8" x 8" BASE PLATE WITH
4 - 3/4" CORNER HOLES

NOT TO SCALE



08/12/2024 8:39:04 AM
STUART ROBINSON McNEIL - C

DATE PREPARED
8/9/2024

ROUTE 109	STATE MO
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DISTRICT	SHEET NO.
SL	16

COUNTY
ST. LOUIS

JOB NO.
JSL0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

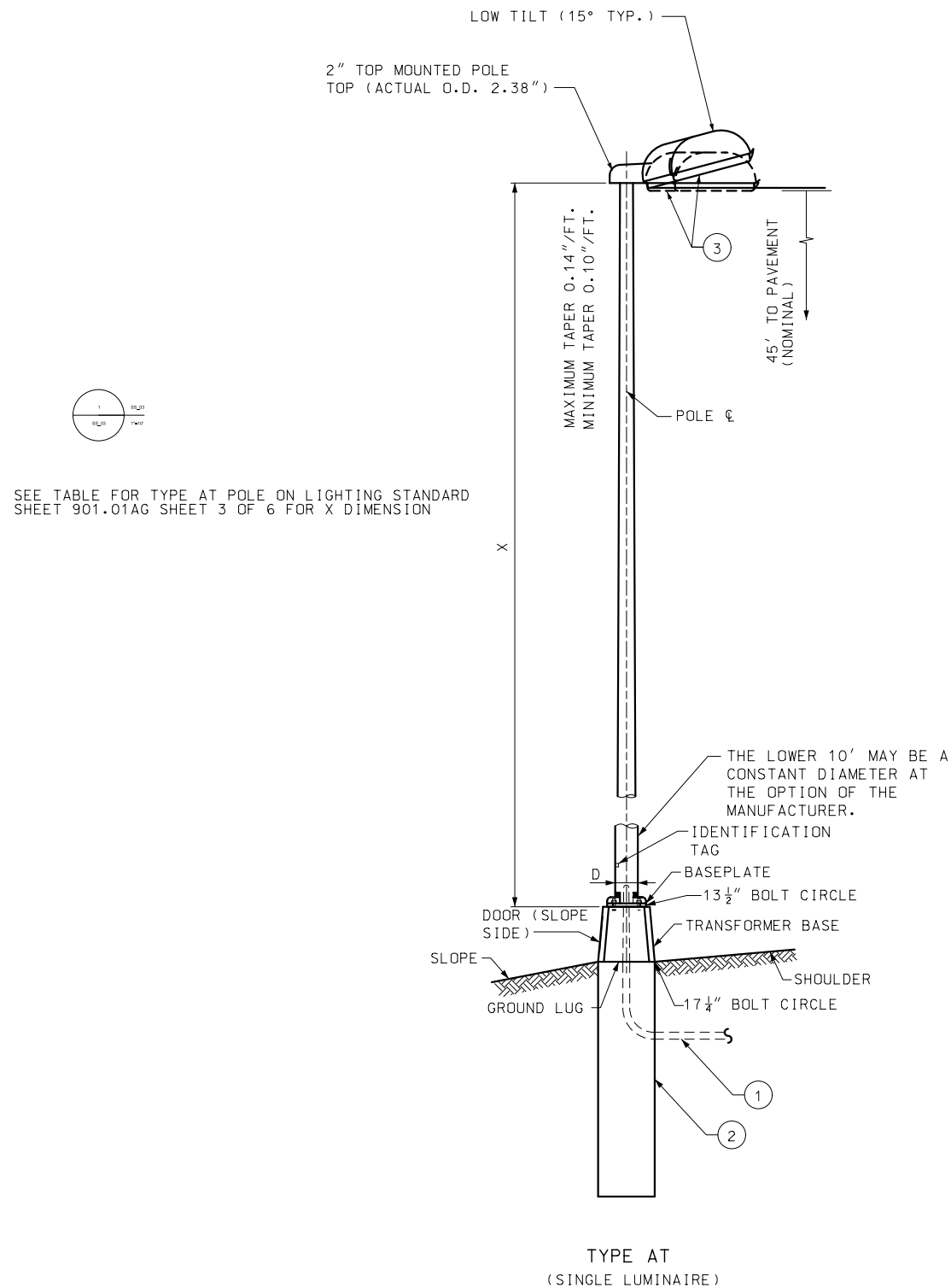
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

SPECIAL SHEET
4 IN. BOLT
DOWN BOLLARD

DISCLAIMER:
THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR
HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS
PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO)
THE SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR
INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL
RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF
THE PROJECT TO WHICH THIS PAGE REFERS.

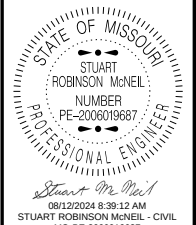


NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS.

GENERAL NOTES:

- A. HOLES SHALL BE PUNCHED ONLY FOR SPECIFIED BOLT CIRCLE.
- B. TRANSFORMER BASE SHALL BE CERTIFIED AS MEETING THE BREAKAWAY CRITERIA AND STRUCTURAL REQUIREMENTS AS SET BY THE CURRENT AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS" AND MEET THE BREAKAWAY REQUIREMENTS OF NCHRP 350.
- C. TRANSFORMER BASES SHALL BE FURNISHED WITH ONE DRILLED AND TAPPED HOLE AND GROUNDING LUG FOR GROUNDING EQUIPMENT.
- D. TYPE AT POLES SHALL BE EQUIPPED WITH THE GROUNDING LUG INSIDE THE TRANSFORMER BASE. TYPE B AND MB POLES SHALL BE EQUIPPED WITH A GROUNDING LUG INSIDE THE POLE.
- E. POST SHALL BE GROUNDED FROM GROUND LUG IN POST WITH #6 AWG BARE COPPER WIRE TO CONDUIT SYSTEM. GROUND LUG SHALL BE 90° OR 180° FROM HANDHOLE.

- ① RIGID CONDUIT SYSTEM. WIRES SHALL BE SPLICED AT FUSED CONNECTOR IN POLE BASE. IF CABLE-CONDUIT IS SPECIFIED, CUT CABLE-CONDUIT SHEATH AWAY FROM THE CABLES WHERE CABLE-CONDUIT EXITS THE RIGID CONDUIT SYSTEM IN THE POLE BASE. (SEE MODOT STANDARD DRAWING 901.02 "TYPICAL TRANSFORMER BASE ATTACHMENT")
- ② CONCRETE FOUNDATION PER MODOT STANDARD DRAWING 901.01, SHEET 6 OF 6. FOUNDATION SHALL MATCH DEPTH AS REQUIRED BY POLE DESIGNS 1, 2, 3, 4 & 5.



DATE PREPARED
8/9/2024

ROUTE 109	STATE MO
--------------	-------------

DISTRICT	SHEET NO
SL	17

COUNTY
ST. LOUIS

JOB NO.
JSL0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

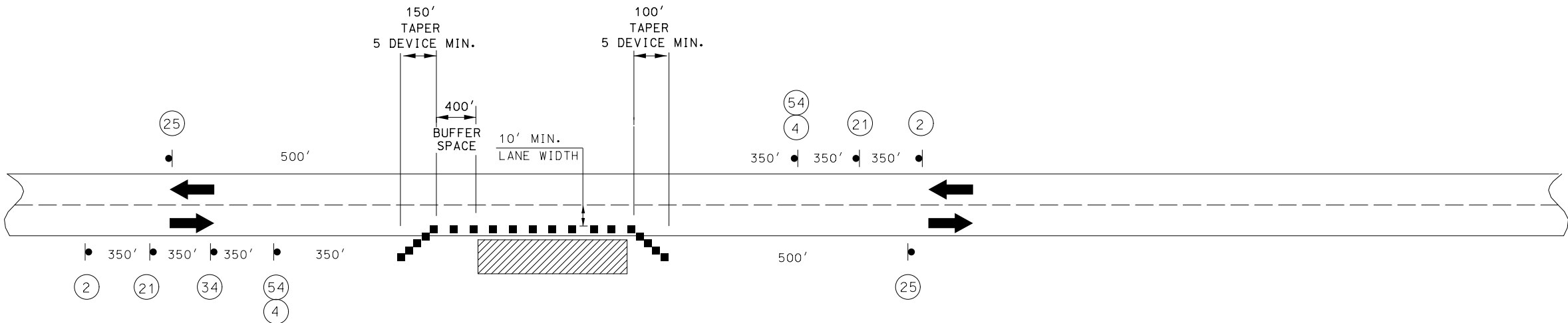
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MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

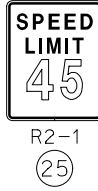
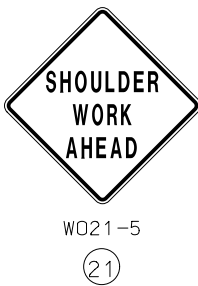
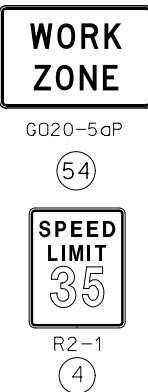
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SPECIAL SHEET
TOP MOUNT LIGHTING

TRAFFIC CONTROL
SHEET 1



- LEGEND**
- - CHANNELIZER (TRIM LINE)
 - ▨ - WORK ZONE
 - - CONSTRUCTION SIGNS



NOTES:

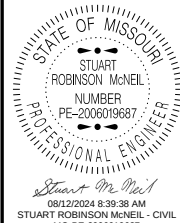
CHANNELIZER SPACING IS 80' UNLESS OTHERWISE NOTED ON PLANS

CHANNELIZING DEVICES TO REMAIN IN PLACE AT EDGE OF PAVEMENT TO DELININATE EDGE DIFERENTIAL UNTIL SHOULDER WORK IS COMPLETE.

PLACE SHOULER DROP-OFF SIGN AT 1/2 MILE INTERVALS WHERE PAVEMENT DIFFERENTIAL EXISTS. THIS SIGN IS TO REMAIN INPLACE UNTIL SHOULDER WORK IS COMPLETE

PLACE BUMP SIGN ON SIDE ROADS WITH POSTED SPEED OF 45 MPH OR GREATER. SIGNS SHALL BE PLACED 150 FT IN ADVANCE OF INTERSECTION WITH MAINLINE.

NOT TO SCALE



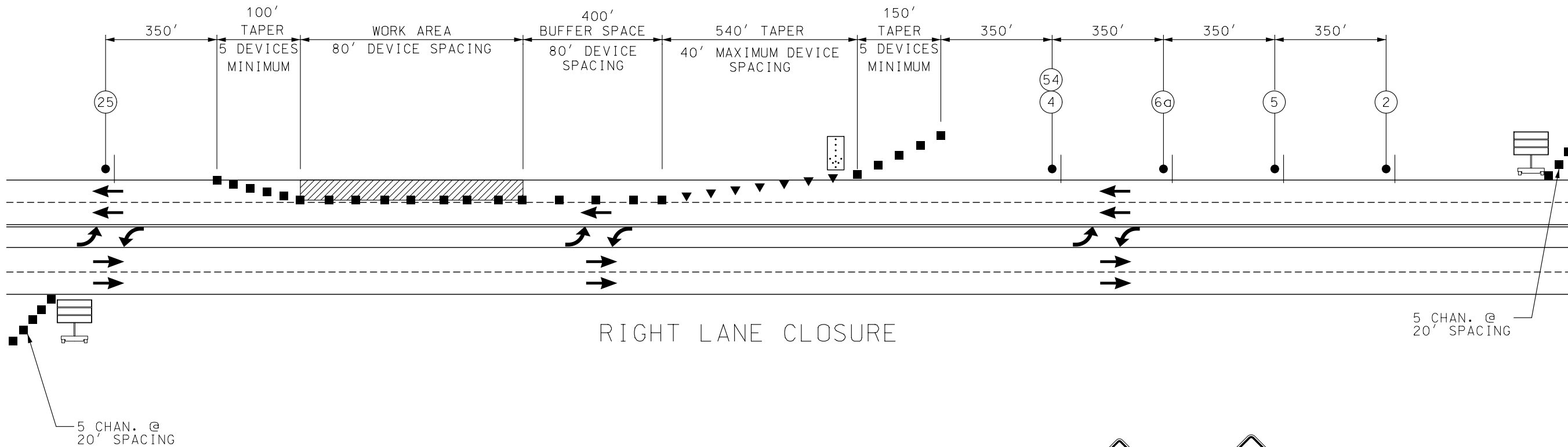
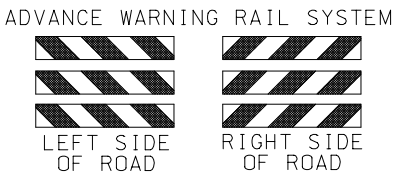
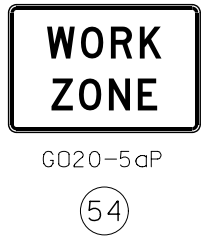
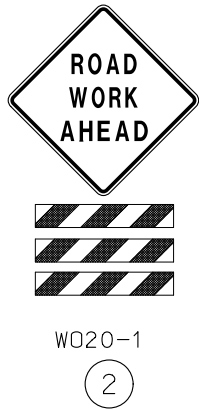
DATE PREPARED 8/9/2024	
ROUTE 109	STATE MO
DISTRICT SL	SHEET NO. 19
COUNTY ST. LOUIS	
JOB NO. JSL0077	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

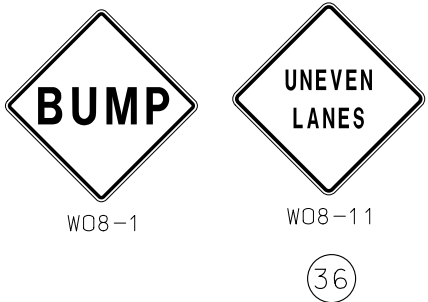
MoDOT

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



LEGEND

- DIRECTIONAL BARRICADE
- CHANNELIZER (TRIM LINE)
- WORK AREA
- CONSTRUCTION SIGN
- FLASHING ARROW PANEL
- CHANGEABLE MESSAGE BOARD



NOTES: COVER ALL EXISTING SIGNS THAT CONFLICT WITH PROPOSED TCP. NO DIRECT PAYMENT WILL BE MADE FOR RELOCATION TCP OF SIGNS.

SIGNS W08-1 AND W08-11 PLACED AS DIRECTED BY ENGINEER.

NOT TO SCALE

RIGHT LANE CLOSURE

STATE OF MISSOURI

STUART ROBINSON MCNEIL

NUMBER PE-2006019687

PROFESSIONAL ENGINEER

08/12/2024 8:39:47 AM

STUART ROBINSON MCNEIL - CIVIL

MO-PE-2006019687

DATE PREPARED

8/9/2024

ROUTE

109

STATE

MO

DISTRICT

SL

SHEET NO.

21

COUNTY

ST. LOUIS

JOB NO.

JSL0077

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 4



W020-1

(2)



R2-1

(4)



W020-5

(5)



W020-6a

(6a)



R2-1

(25)



G020-5aP

(54)

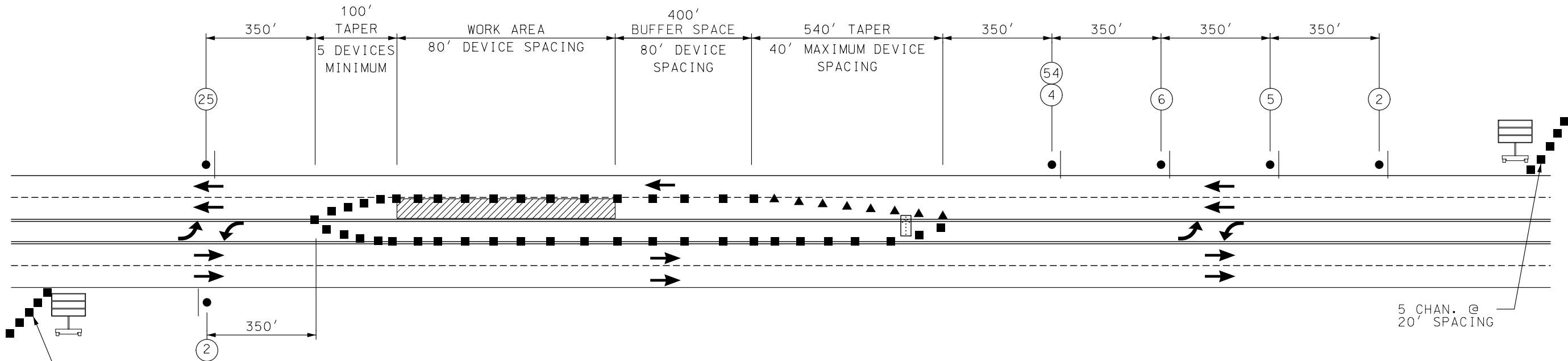
ADVANCE WARNING RAIL SYSTEM



LEFT SIDE
OF ROAD



RIGHT SIDE
OF ROAD



LEFT LANE CLOSURE



W08-1



W08-11

(36)

LEGEND

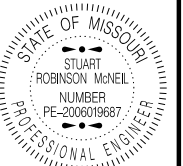
- DIRECTIONAL BARRICADE
- CHANNELIZER (TRIM LINE)
- WORK AREA
- CONSTRUCTION SIGN
- FLASHING ARROW PANEL
- CHANGEABLE MESSAGE BOARD

NOT TO SCALE

NOTES: COVER ALL EXISTING SIGNS THAT CONFLICT WITH PROPOSED TCP. NO DIRECT PAYMENT WILL BE MADE FOR RELOCATION TCP OF SIGNS.

SIGNS W08-1 AND W08-11 PLACED AS DIRECTED BY ENGINEER.

LEFT LANE CLOSURE



STUART ROBINSON MCNEIL
PE-2006019687
CIVIL

DATE PREPARED
8/9/2024

ROUTE
109

STATE
MO

DISTRICT
SL

SHEET NO.
22

COUNTY
ST. LOUIS

JOB NO.
JSL0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

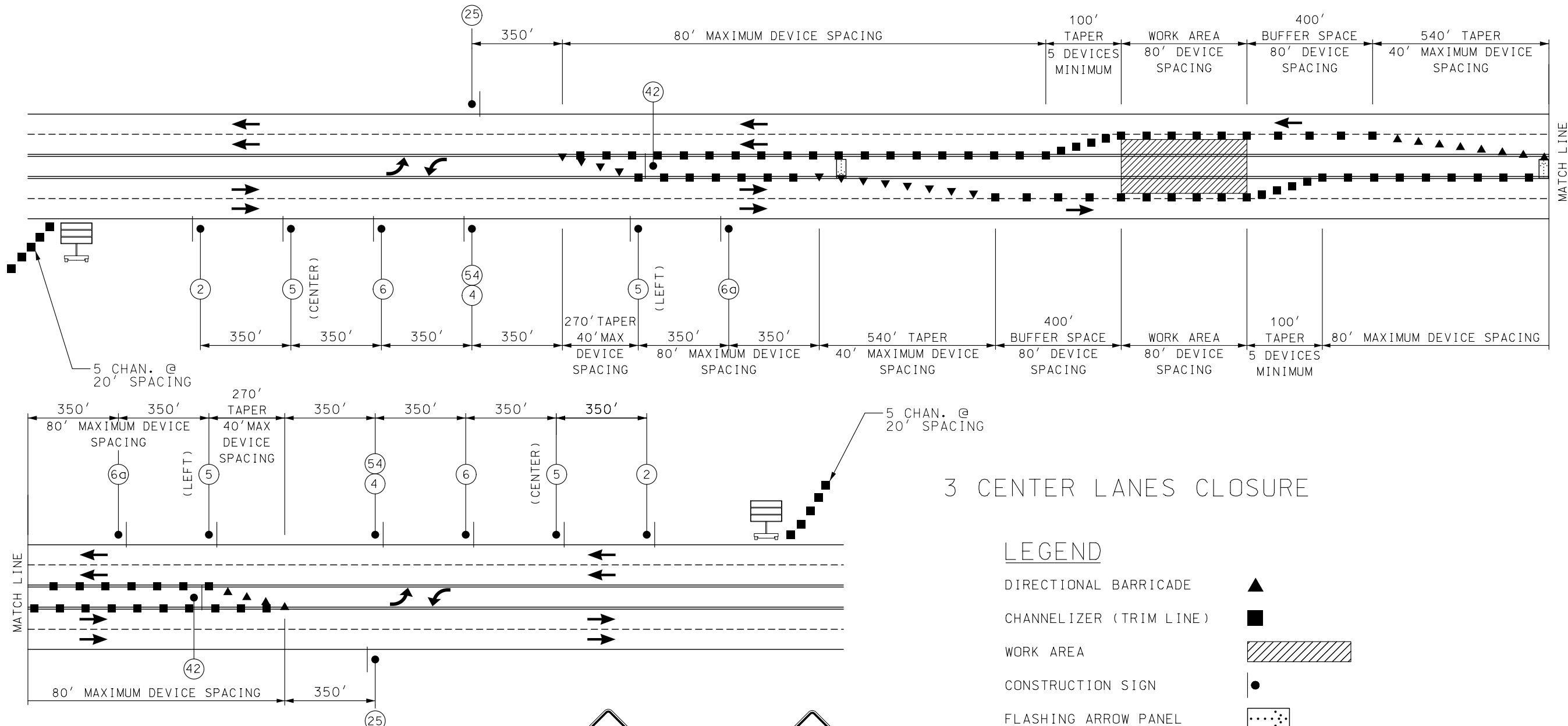
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MODOT

TRAFFIC CONTROL SHEET 5



3 CENTER LANES CLOSURE

LEGEND

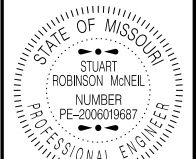
- DIRECTIONAL BARRICADE
- CHANNELIZER (TRIM LINE)
- WORK AREA
- CONSTRUCTION SIGN
- FLASHING ARROW PANEL
- CHANGEABLE MESSAGE BOARD

NOTES: COVER ALL EXISTING SIGNS THAT CONFLICT WITH PROPOSED TCP. NO DIRECT PAYMENT WILL BE MADE FOR RELOCATION OF TCP SIGNS.

SIGNS W08-1 AND W08-11 PLACED AS DIRECTED BY ENGINEER.

3 CENTER LANES CLOSED

NOT TO SCALE



DATE PREPARED
8/9/2024

ROUTE
109

STATE
MO

DISTRICT
SL

SHEET NO.
23

COUNTY
ST. LOUIS

JOB NO.
JSL0077

CONTRACT ID.

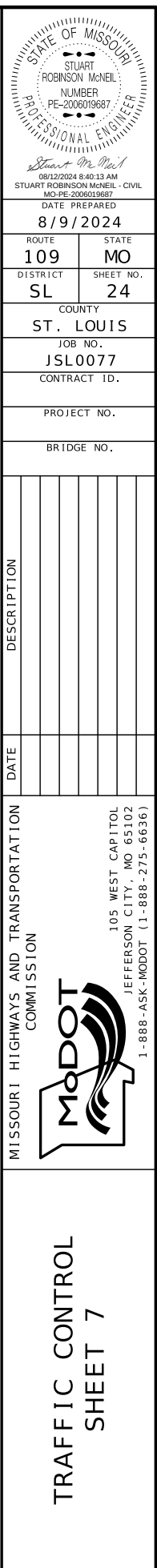
PROJECT NO.

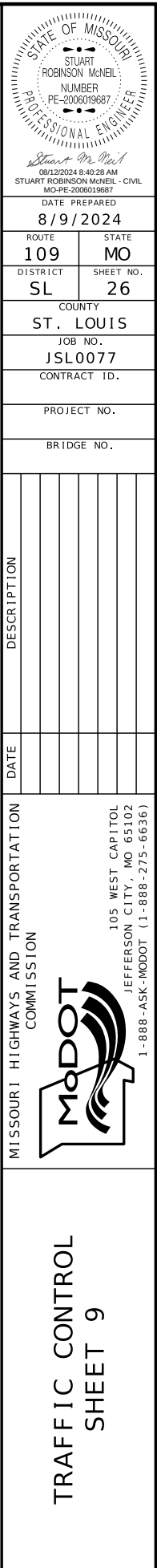
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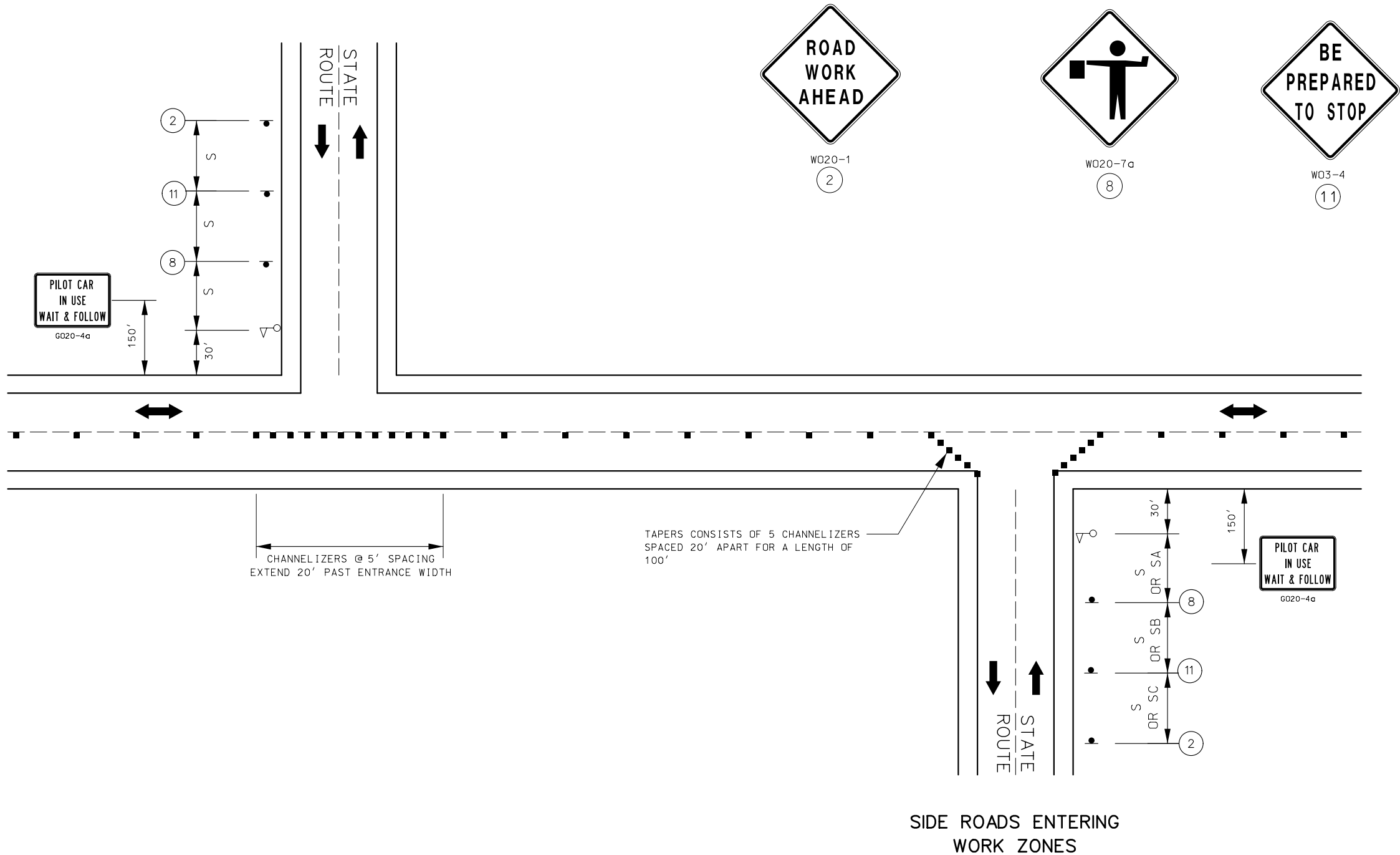
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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







NOTES:

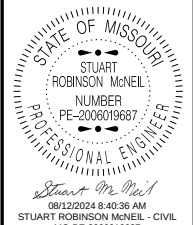
ADDITIONAL WARNING SIGNS SHALL BE ERECTED AT EACH INTERSECTION WITH ANOTHER STATE HIGHWAY WITHIN THE WORK ZONE. GUIDANCE MAY RANGE FROM A ROAD WORK AHEAD SIGN, A FLAGGER AT AN INTERSECTION, OR USE OF A PILOT CAR.

UPON THE DISCRETION OF THE ENGINEER, ADDITIONAL WARNING SIGNS MAY BE ERECTED AT OTHER INTERSECTIONS WITHIN THE WORK ZONE.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- △○ FLAGGER

SPEED	SIGN SPACING (ft.)	
	UN -DIVIDED (S)	DIVIDED (S)
PERM. POSTED (MPH)		
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	1000	SA-1000 SB-1500 SC-2640



DATE PREPARED 8/9/2024	
ROUTE 109	STATE MO
DISTRICT SL	SHEET NO. 27
COUNTY ST. LOUIS	
JOB NO. JSL0077	
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)

FLASHING ARROW PANEL - CAUTION MODE

ONE LANE ROAD AHEAD

W020-4
48" x 48"

WET PAINT

WET PAINT

G022-1 (2)

PAVEMENT MARKING EQUIPMENT

WARNING TRUCK WITH WORK SIGNS, FLASHING ARROW PANEL AND OPTIONAL TRUCK OR TRAILER MOUNTED ATTENUATOR. (1)

ADVANCE WARNING TRUCK WITH WORK SIGNS, FLASHING ARROW PANEL AND TRUCK OR TRAILER MOUNTED ATTENUATOR. (3)

150' MIN.

150' MIN.

CENTER LINE / EDGE LINE STRIPING ON TWO-LANE HIGHWAYS

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

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

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

(1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD IS MOUNTED ON THE PAVEMENT MARKING EQUIPMENT.

(2) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION. A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.

(3) ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL OR SPACING SHOWN, WHICHEVER IS GREATER.

[illegible]

MULTI-LANE DIVIDED HIGHWAY



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

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

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

(1) 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.

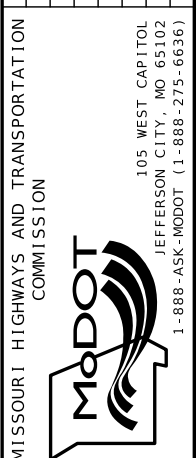
(2) ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL OR SPACING SHOWN, WHICHEVER IS GREATER.

FLASHING ARROW PANELS SHALL, AS A MINIMUM, BE TYPE B, WITH A SIZE OF 60 X 30 INCHES.

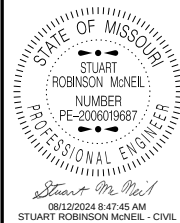
VEHICLE-MOUNTED SIGNS SHALL BE MOUNTED IN A MANNER SUCH THAT THEY ARE NOT OBSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGEND ON VEHICLE-MOUNTED SIGNS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.

A FLASHING ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED. WHEN MORE THAN ONE LANE IS CLOSED, A SEPARATE FLASHING ARROW BOARD SHALL BE USED FOR EACH LANE.

NOT TO SCALE



TRAFFIC CONTROL
SHEET 12



DATE PREPARED	
8/9/2024	
ROUTE	STATE
109	MO
DISTRICT	SHEET NO.
SL	31
COUNTY	
ST. LOUIS	
JOB NO.	
JSL0077	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

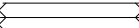
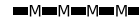
DESCRIPTION	DATE								

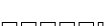
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

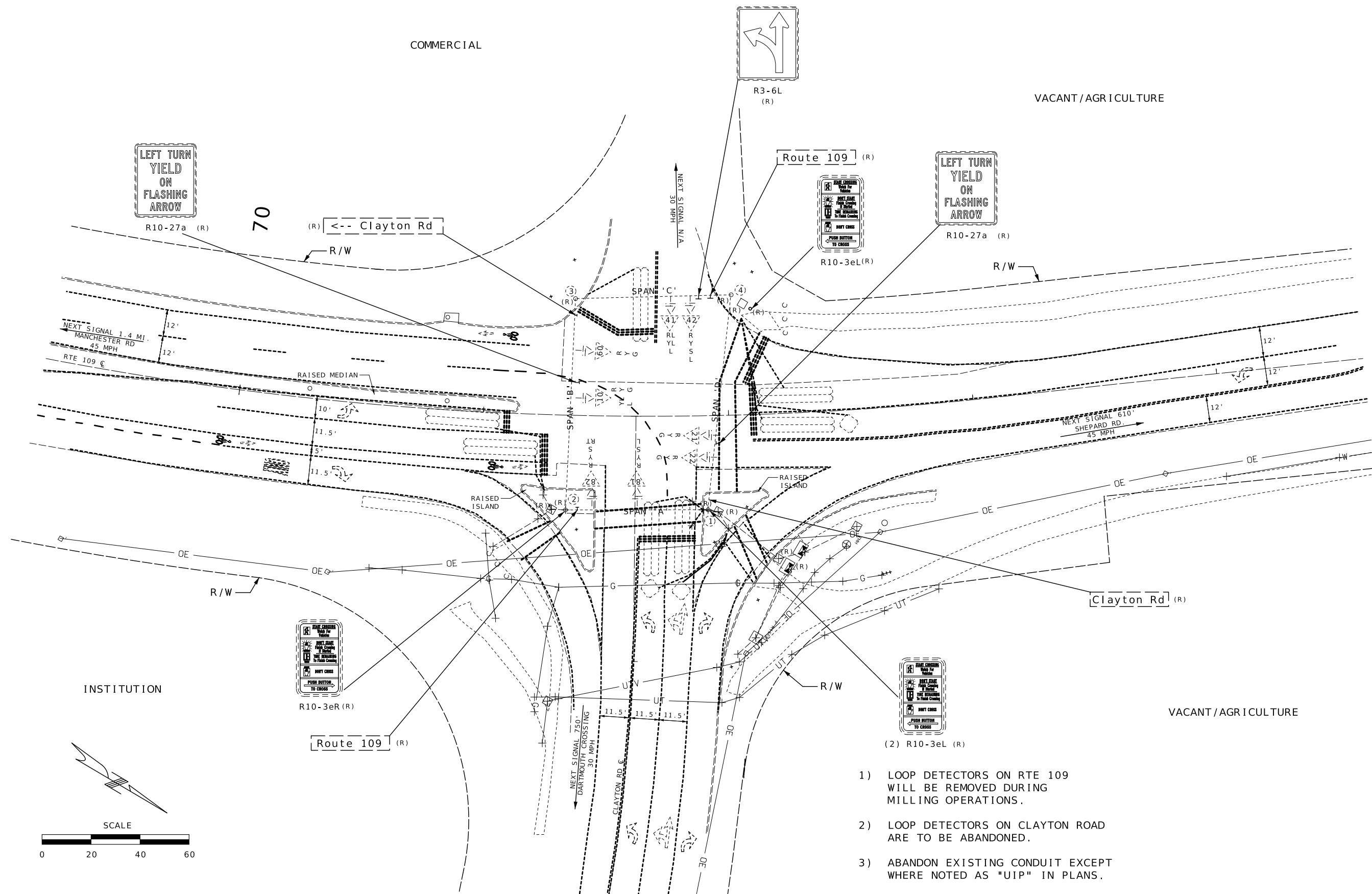
SIGNAL SHEET LEGENDS

TRAFFIC SIGNALS LEGEND			
	CONTROLLER		CCTV CAMERA
	CONTROLLER (EXISTING)		VIDEO DETECTOR
	UPS		PUSH BUTTON DETECTOR
	JUNCTION BOX		PREFORMED PULL BOX TYPE 1
	POWER SUPPLY		PREFORMED PULL BOX TYPE 2
	SIGNAL HEAD (OPT LIM CONV)		CONCRETE PULL BOX TYPE 1
	SIGNAL HEAD (OPT LIM)		CONCRETE PULL BOX TYPE 2
	SIGNAL HEAD (PEDESTRIAN)		ITS PULL BOX TYPE 2
	SIGNAL HEAD (STANDARD)		ITS PULL BOX TYPE 5
			6 X 6 LOOP DETECTOR
			6 X 15 LOOP DETECTOR
			30 X 6 LOOP DETECTOR
			CONDUIT MEDIAN
			CONDUIT PUSHED
			CONDUIT BRIDGE
			CONDUIT EXISTING
			CONDUIT TRENCHED
			SPAN WIRE
			MAST ARM - TYPE A BASE
			MAST ARM - TYPE C BASE
			MAST ARM - TYPE F BASE

LIGHTING LEGEND			
	CONTROLLER, LIGHTING		LED-A LUMINAIRE
	CONTROLLER, LIGHTING (EXISTING)		LED-B LUMINAIRE
	POWER SUPPLY		LED-C LUMINAIRE
	JUNCTION BOX		POWER SOURCE
	PULL BOX CONCRETE TYPE 1		PULL BOX (EXISTING)
	PULL BOX PREFORMED TYPE 1		PULL BOX CONCRETE TYPE 2
	CONDUIT, RIGID (TRENCH)		PULL BOX PREFORMED TYPE 2
	CONDUIT, RIGID (MEDIAN)		CONDUIT, RIGID (PUSHED)
	CONDUIT, RIGID (EXISTING)		CONDUIT, RIGID (BRIDGE)
			CABLE-CONDUIT (EXISTING)
			CABLE-CONDUIT

- NOTES:
- 1. ALL PEDESTRIAN HEADS SHALL BE COUNTDOWN TYPE HEADS. (REFER TO JSP)
 - 2. ALL PUSH BUTTONS SHALL BE APS PUSHBUTTONS. (REFER TO JSP)
 - 3. COORDINATE CURB RAMP & LANDING CONSTRUCTION WITH SIGNAL PLANS. (SEE PLAN SHEETS)
 - 4. ALL PUSH BUTTONS REQUIRE SIGN R10-3e(L or R) (9"x15") TO BE INSTALLED ABOVE THEM. (SEE JSP)
 - 5. EXISTING SIGNAL DETECTION EQUIPMENT SHALL BE RETURNED TO MoDOT SIGNAL OPERATIONS AT BARRETT STATION. (REFER TO JSP)

TRAFFIC SIGNAL & LIGHTING LEGENDS



- 1) LOOP DETECTORS ON RTE 109
WILL BE REMOVED DURING
MILLING OPERATIONS.
- 2) LOOP DETECTORS ON CLAYTON ROAD
ARE TO BE ABANDONED.
- 3) ABANDON EXISTING CONDUIT EXCEPT
WHERE NOTED AS "UIP" IN PLANS.

EFFECTIVE: 07-01-2018

[illegible]

The diagram shows a T-intersection where a horizontal road (RTE 109) meets a vertical road (CLAYTON RD). The horizontal road has a centerline and two edge lines. The vertical road has a centerline and two edge lines. A signal sheet is located at the intersection. The signal sheet is a rectangle with a black border. Inside the rectangle, the text "SIGNAL SHEET" is written vertically on the left side. To the right of "SIGNAL SHEET", the text "RTE 109 @" is written vertically, followed by "CLAYTON RD" written vertically. Below the signal sheet, the text "D-37A" is written horizontally. The intersection is labeled "RTE 109 @ CLAYTON RD" and "INTERSECTION".

RTE 109 @ CLAYTON RD

INTERSECTION

LEGEND

- T - TOP MOUNT
- S - SIDE MOUNT
- C - SPANWIRE MOUNT
- B - MAST ARM MOUNT

SIGNAL SHEET
RTE 109 @
CLAYTON RD

D-37A

07/31/2024	
ROUTE	STATE

DISTRICT	SHEET NO.
SL	35

JOB NO.
JSL0077

PROJECT NO.

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 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1.888.ASK.MODOT / 1.888.275.6626

1

INTERSECTION RTE 109 @ CLAYTON RD D-37B

WIRING DIAGRAM

RTE 109

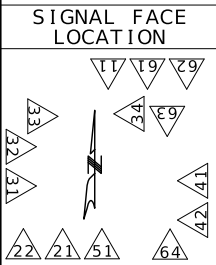
CLAYTON RD

NOT TO SCALE

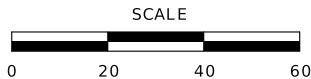
INTERSECTION

D-37D

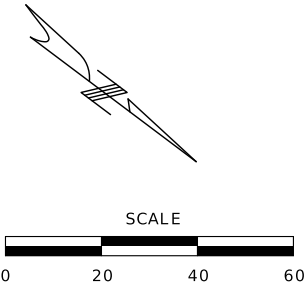
SIGNAL SHEET
RTE 109 @
CLAYTON RD



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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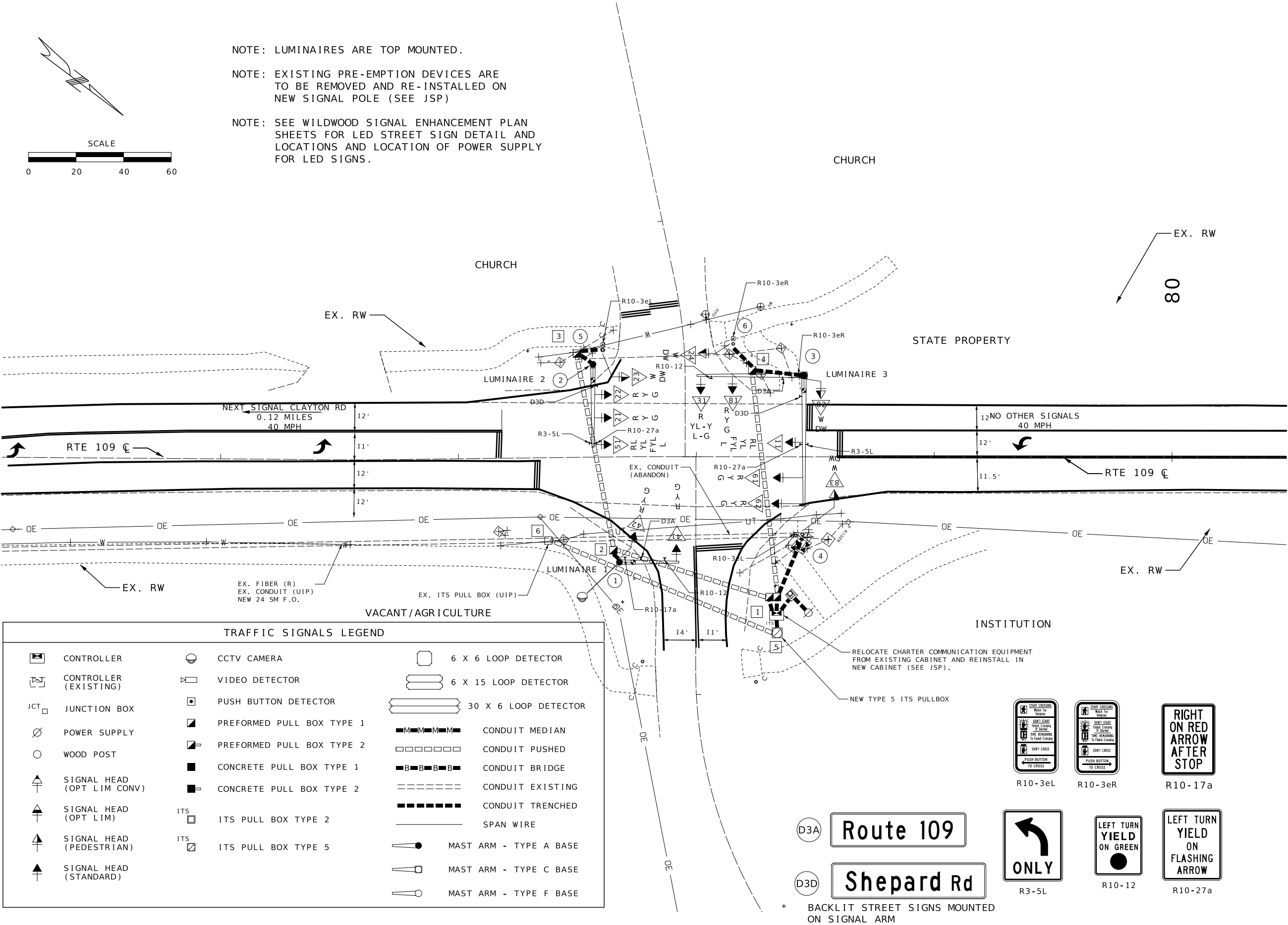
SIGNAL SHEET
ROUTE 109 @
SHEPARD RD



NOTE: LUMINAIRES ARE TOP MOUNTED.

NOTE: EXISTING PRE-EMPTION DEVICES ARE TO BE REMOVED AND RE-INSTALLED ON NEW SIGNAL POLE (SEE JSP)

NOTE: SEE WILDWOOD SIGNAL ENHANCEMENT PLAN SHEETS FOR LED STREET SIGN DETAIL AND LOCATIONS AND LOCATION OF POWER SUPPLY FOR LED SIGNS.



TRAFFIC SIGNALS LEGEND					
	CONTROLLER		CCTV CAMERA		6 X 6 LOOP DETECTOR
	CONTROLLER (EXISTING)		VIDEO DETECTOR		6 X 15 LOOP DETECTOR
	JUNCTION BOX		PUSH BUTTON DETECTOR		30 X 6 LOOP DETECTOR
	POWER SUPPLY		PREFORMED PULL BOX TYPE 1		CONDUIT MEDIAN
	WOOD POST		PREFORMED PULL BOX TYPE 2		CONDUIT PUSHED
	SIGNAL HEAD (OPT LIM CONV)		CONCRETE PULL BOX TYPE 1		CONDUIT BRIDGE
	SIGNAL HEAD (OPT LIM)		CONCRETE PULL BOX TYPE 2		CONDUIT EXISTING
	SIGNAL HEAD (PEDESTRIAN)		ITS PULL BOX TYPE 2		CONDUIT TRENCHED
	SIGNAL HEAD (STANDARD)		ITS PULL BOX TYPE 5		SPAN WIRE
					MAST ARM - TYPE A BASE
					MAST ARM - TYPE C BASE
					MAST ARM - TYPE F BASE

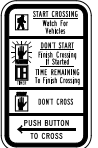
D3A

Route 109

D3D

Shepard Rd

* BACKLIT STREET SIGNS MOUNTED ON SIGNAL ARM



R10-3eL



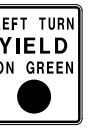
R10-3eR



R10-17a



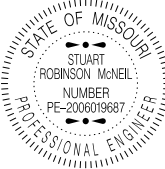
R3-5L



R10-12



R10-27a



DATE PREPARED
8/9/2024

ROUTE 109 STATE MO

DISTRICT SL SHEET NO. 40

COUNTY ST. LOUIS

JOB NO. JSL0077

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)

MODOT

SIGNAL SHEET

ROUTE 109 @

SHEPARD RD

EFFECTIVE: 07-01-2018

 SIGNAL SHEET ROUTE 109 @ SHEPARD RD	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)		DATE	DESCRIPTION
D-37A				

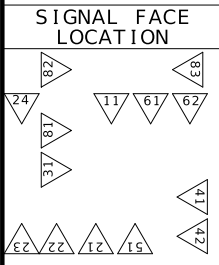
DATE PREPARED	
8/9/2024	
ROUTE	STATE
109	MO
DISTRICT	SHEET NO.
SL	42
COUNTY	
ST. LOUIS	
JOB NO.	
JSL0077	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

[illegible]

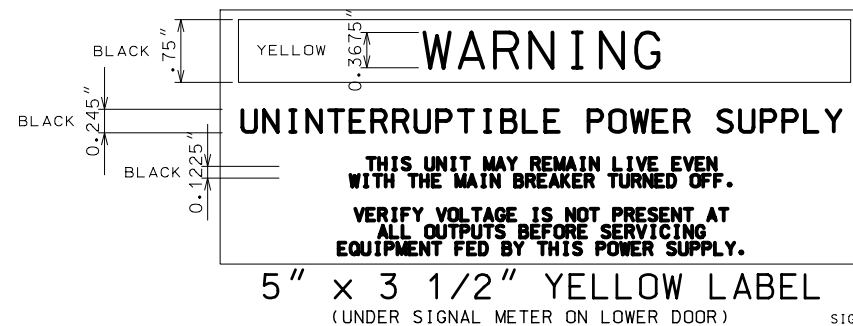

 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1.888.ASK.MODOT / 1.888.775.6626

SIGNAL SHEET
RTE 109 @
SHEPARD RD



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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1. ALTERNATE CABINET DIMENSIONS WILL BE ALLOWED AS APPROVED BY THE ENGINEER. INTERIOR CABINET VOLUME SHALL BE EQUAL TO OR GREATER THAN THAT SHOWN ON PLANS AND PROPER CLEARANCES SHALL BE PROVIDED FOR ALL EQUIPMENT. CONCRETE BASE DIMENSIONS SHALL BE MODIFIED TO FIT THE CABINET SUPPLIER.
2. PLACEMENT OF ALL ITEMS SHALL BE APPROVED BY THE ENGINEER.
3. SCHEMATIC DIAGRAM SHALL BE MOUNTED ON INSIDE OF CABINET DOOR.
4. THE UTILITY SHALL BE NOTIFIED IN WRITING 30 DAYS PRIOR TO DATE SERVICE WILL BE REQUIRED.
5. ALL CABINET OPENINGS SHALL BE COVERED AND SEALED WITH LIFETIME SILICONE CAULK.
6. ALL MATERIALS REQUIRED EXCLUDING REFERENCE ITEMS AS SHOWN ON THE DRAWING SHALL BE INCLUDED IN PRICE BID FOR "PAD MOUNTED POWER SUPPLY AND LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY, CABLE AND CONDUIT FROM POWER SUPPLY ASSEMBLY TO UTILITY COMPANY FACILITIES SHALL BE INCLUDED IN THE BID PRICE.
7. REFER TO PLAN SHEET DETAIL TO DETERMINE IF A UTILITY POLE OR PEDESTAL WILL BE REQUIRED.
8. CABINET SHALL BE LOCATED WITH A MINIMUM 36" CLEARANCE, FRONT, BACK, AND SIDES.
9. SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.



THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

LIST OF MATERIALS	
ITEM	DESCRIPTION
1	METER SOCKET, 200 AMP, WITH LEVER TEST BYPASS
2	RIGID STEEL CONDUIT, 2" MIN. TO UTILITY CO. FACILITIES
3	CLASS B CONCRETE, 1.3 cu. yd. (MIN.)
4	NEMA 3R, DUST-TIGHT, WATERTIGHT CABINET
5	GROUND ROD, 3/4" DIA. x 8' MIN. (MIN. 8' IN SOIL)
6	PHOTOELECTRIC SWITCH AND SOCKET, 105/285 V., 1000 WATT
7	2" MIN. SCH 40 PVC CONDUIT (REF.)
8	#2 AWG MIN., 600 V., GROUND CABLE
9	EXOTHERMIC WELD WIRE TO ROD
10	PLIABLE SEALANT
11	LIFETIME SILICONE CAULK
12	ANCHOR BOLTS, 5/8-11 x 18" LONG BOLTS, HOT DIP GALVANIZED, 4 REQUIRED
13	WEATHERPROOF ADHESIVE LABEL, VINYL RAISED LETTERING (OR EQUIVALENT, SEE DETAIL)
14	INSULATED TERMINAL BLOCK
15	2-POLE, 20 AMP, 120V COIL LIGHTING CONTACTOR
16	2-POLE, 650 VOLT LIGHTNING ARRESTER
17	1-POLE, 15 AMP, TYPE B BREAKER TO PHOTOELECTRIC SWITCH
18	MANUAL-AUTO SWITCH
19	INSULATED GROUNDABLE NEUTRAL, 100 AMP
20	2-POLE, TYPE A MAIN BREAKER
21	2-POLE, 15 AMP (MIN.), TYPE A BREAKERS TO LIGHTING CIRCUITS *
22	1-POLE, 15 AMP (MIN.), TYPE A BREAKER TO SIGNALS *
23	#2 AWG MIN., 600 V., POWER CABLE *
24	6" PEDESTAL RISER
25	12V GEL CELL BATTERIES IN SERIES (4 MINIMUM)
26	30A GENERATOR MALE BASE
27	INVERTER (1100VA MINIMUM)
28	1-POLE, 40 AMP, TYPE B UPS BREAKER
29	1-POLE, 15 AMP, TYPE B FAN BREAKER
30	1 1/2" CONDUIT OUT TO SIGNAL CABINET (CAT 5E AND CONTROL WIRING)
*	SEE PLANS FOR SIZE

NOTES

(A) CABINET WITH POWER SUPPLY SHALL BE ALUMINUM OR STAINLESS STEEL. ALL HARDWARE, HINGES, CATCHES, ETC. SHALL BE STAINLESS STEEL. METER SOCKET AND OTHER EQUIPMENT AND MATERIALS SHALL BE U.L. APPROVED AND CONFORM TO THE REQUIREMENTS OF THE UTILITY COMPANY OR MUNICIPALITY PROVIDING POWER.

(B) IF SUBSURFACE CONDITIONS EXIST WHICH PROHIBIT THE PLACEMENT OF THE GROUND ROD IN A VERTICAL POSITION, THE ROD MAY BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR BURIED IN A TRENCH AT LEAST 30 INCHES DEEP. CONNECTION TO GROUND ROD SHALL BE CAD WELDED.

(C) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS (120 OR 240 VOLTS).
IF LIGHTS ARE TO BE MOUNTED ON SIGNAL POSTS, VOLTAGE MUST BE 120 VOLTS. 240 VOLT LIGHTS ARE NOT TO BE MOUNTED ON OR WIRED THROUGH SIGNAL POSTS, CONDUIT, OR PULL BOXES.

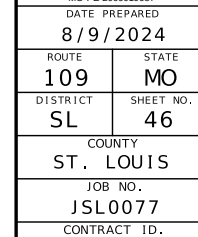
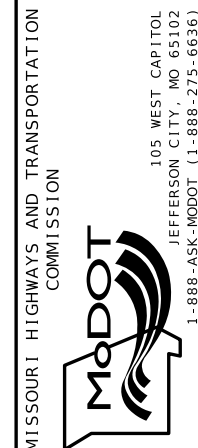
(D) LOCATE PHOTOELECTRIC SWITCH AT CENTER OF WINDOW.

(E) IF FOR REASONS OF VOLTAGE DROP A WIRE SIZE IS SPECIFIED LARGER THAN #2 AWG, A LARGER TERMINAL BLOCK SHALL BE INSTALLED FOR THAT CIRCUIT.

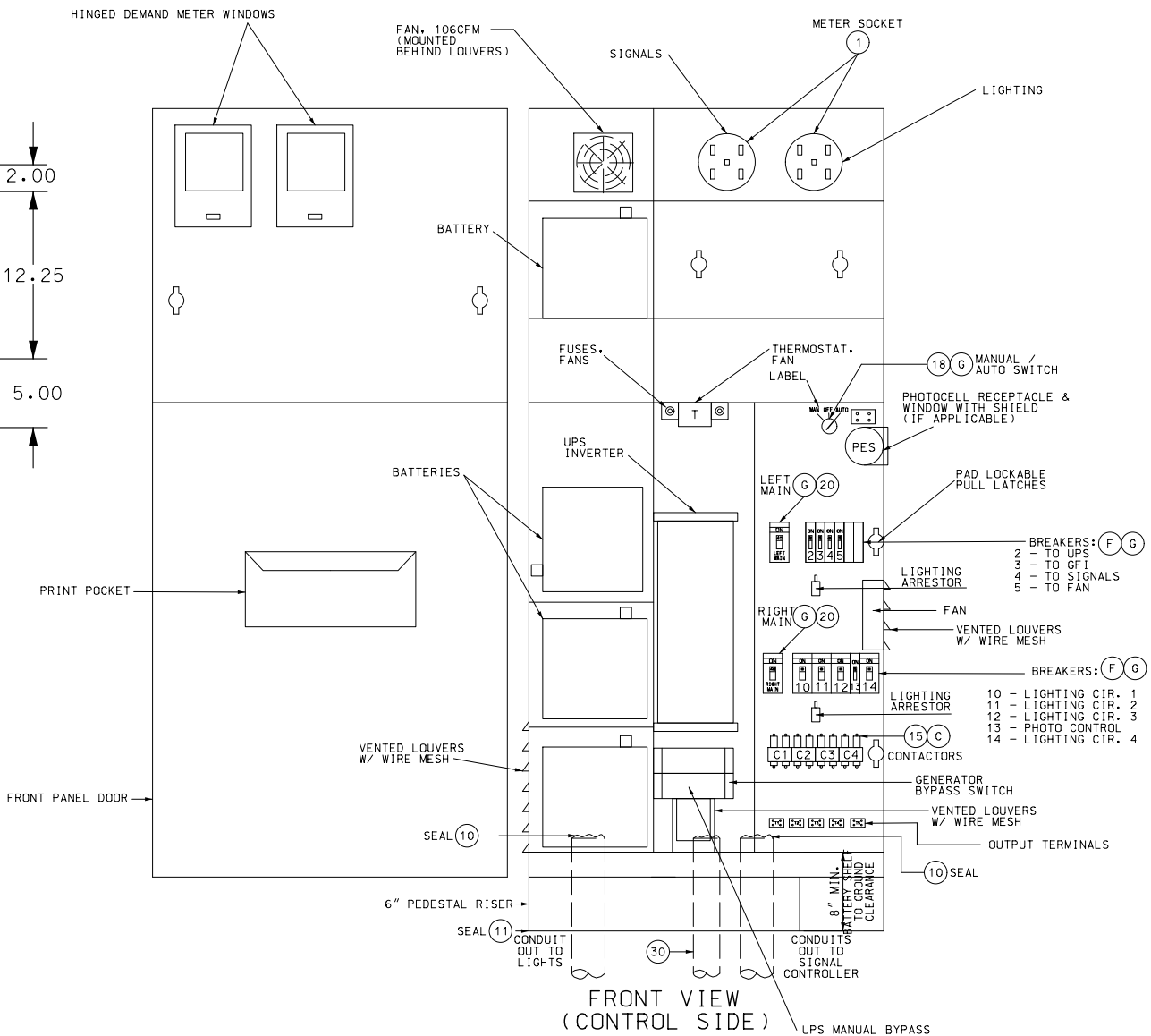
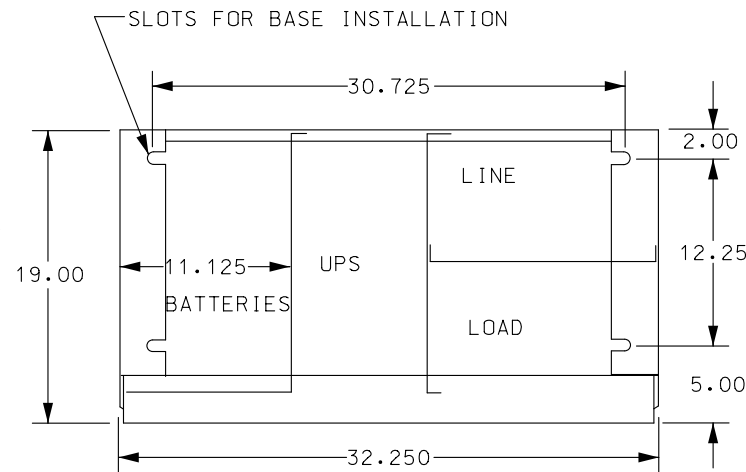
SIZE (AMPS)	240V TOTAL CIRCUIT LOAD (WATTS)	120V TOTAL CIRCUIT LOAD (WATTS)
15	0-2800	0-1390
20	2850-3700	1400-1850
25	3750-4600	1860-2320
30	4650-5500	2330-2780
35	5550-6500	-
40	6550-7400	-

CIRCUIT LOAD INCLUDES LOAD DUE TO LINE LOSS, LAMP, AND BALLAST LOAD.

- (G) ALL CIRCUIT BREAKERS SHALL CONFORM TO SECTION 901.4 OF THE STANDARD SPECIFICATIONS.
- (H) TAPE BATTERY TEMPERATURE SENSOR TO THE SIDE OF EITHER BATTERY #2 OR BATTERY #3. SENSOR SHOULD BE TO THE MIDDLE OF THE BATTERY BANK.
- (I) UTILITY COMPANY SHALL DECIDE IF LIGHTNING ARRESTORS ARE TO BE CONNECTED ON THE LINE SIDE OR THE LOAD SIDE OF THE METER. THE UTILITY COMPANY SHALL ALSO DETERMINE WHERE THE LIGHTNING ARRESTOR SHALL BE MOUNTED.
- (J) INCLUDE ADDITIONAL CONDUITS AS NECESSARY FOR AUXILIARY CIRCUITS.
- (K) SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.

[illegible]

SIGNAL SHEET
ROUTE 109
POWER SUPPLY



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SIGNAL SHEET
ROUTE 109
POWER SUPPLY

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NOTES

(A) CABINET WITH POWER SUPPLY SHALL BE ALUMINUM OR STAINLESS STEEL. ALL HARDWARE, HINGES, CATCHES, ETC. SHALL BE STAINLESS STEEL. METER SOCKET AND OTHER EQUIPMENT AND MATERIALS SHALL BE U.L. APPROVED AND CONFORM TO THE REQUIREMENTS OF THE UTILITY COMPANY OR MUNICIPALITY PROVIDING POWER.

(B) IF SUBSURFACE CONDITIONS EXIST WHICH PROHIBIT THE PLACEMENT OF THE GROUND ROD IN A VERTICAL POSITION, THE ROD MAY BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR BURIED IN A TRENCH AT LEAST 30 INCHES DEEP. CONNECTION TO GROUND ROD SHALL BE CAD WELDED.

(C) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS (120 OR 240 VOLTS).
IF LIGHTS ARE TO BE MOUNTED ON SIGNAL POSTS, VOLTAGE MUST BE 120 VOLTS. 240 VOLT LIGHTS ARE NOT TO BE MOUNTED ON OR WIRED THROUGH SIGNAL POSTS, CONDUIT, OR PULL BOXES.

(D) LOCATE PHOTOELECTRIC SWITCH AT CENTER OF WINDOW.

(E) IF FOR REASONS OF VOLTAGE DROP A WIRE SIZE IS SPECIFIED LARGER THAN #2 AWG, A LARGER TERMINAL BLOCK SHALL BE INSTALLED FOR THAT CIRCUIT.

(F) BREAKER SIZING:

	240V TOTAL CIRCUIT LOAD (WATTS)	120V TOTAL CIRCUIT LOAD (WATTS)
SIZE (AMPS)		
15	0-2800	0-1390
20	2850-3700	1400-1850
25	3750-4600	1860-2320
30	4650-5500	2330-2780
35	5550-6500	-
40	6550-7400	-

CIRCUIT LOAD INCLUDES LOAD DUE TO LINE LOSS, LAMP, AND BALLAST LOAD.

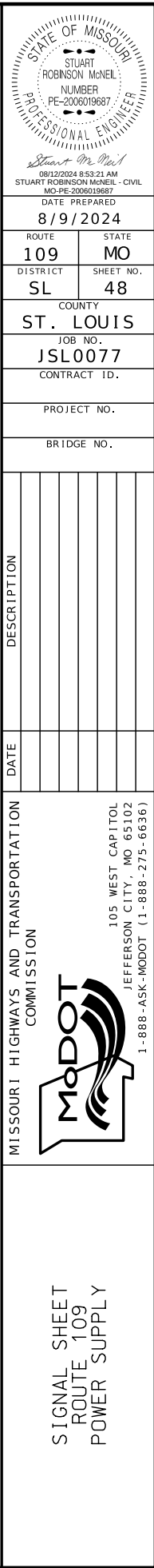
(G) ALL CIRCUIT BREAKERS SHALL CONFORM TO SECTION 901.4 OF THE STANDARD SPECIFICATIONS.

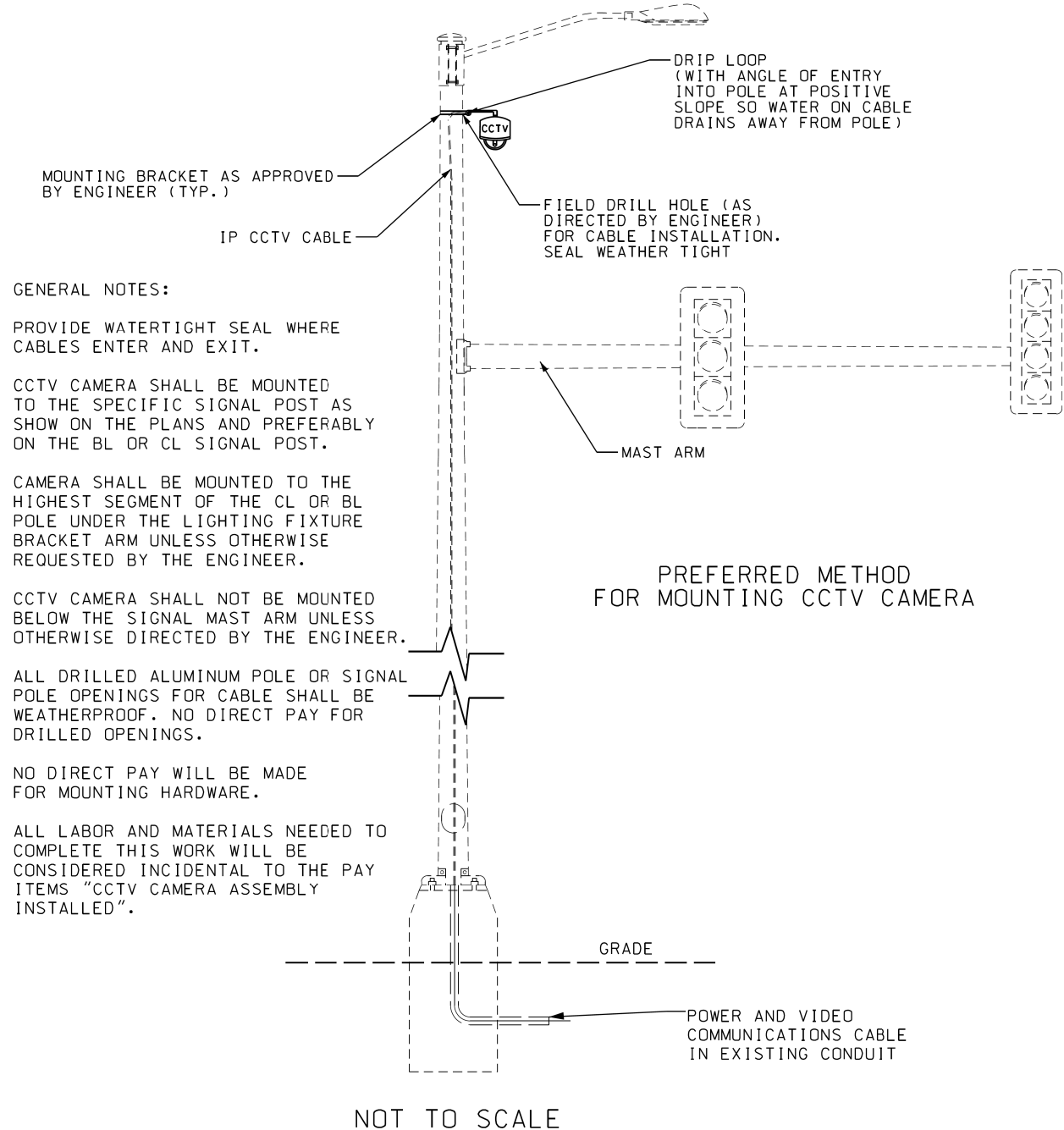
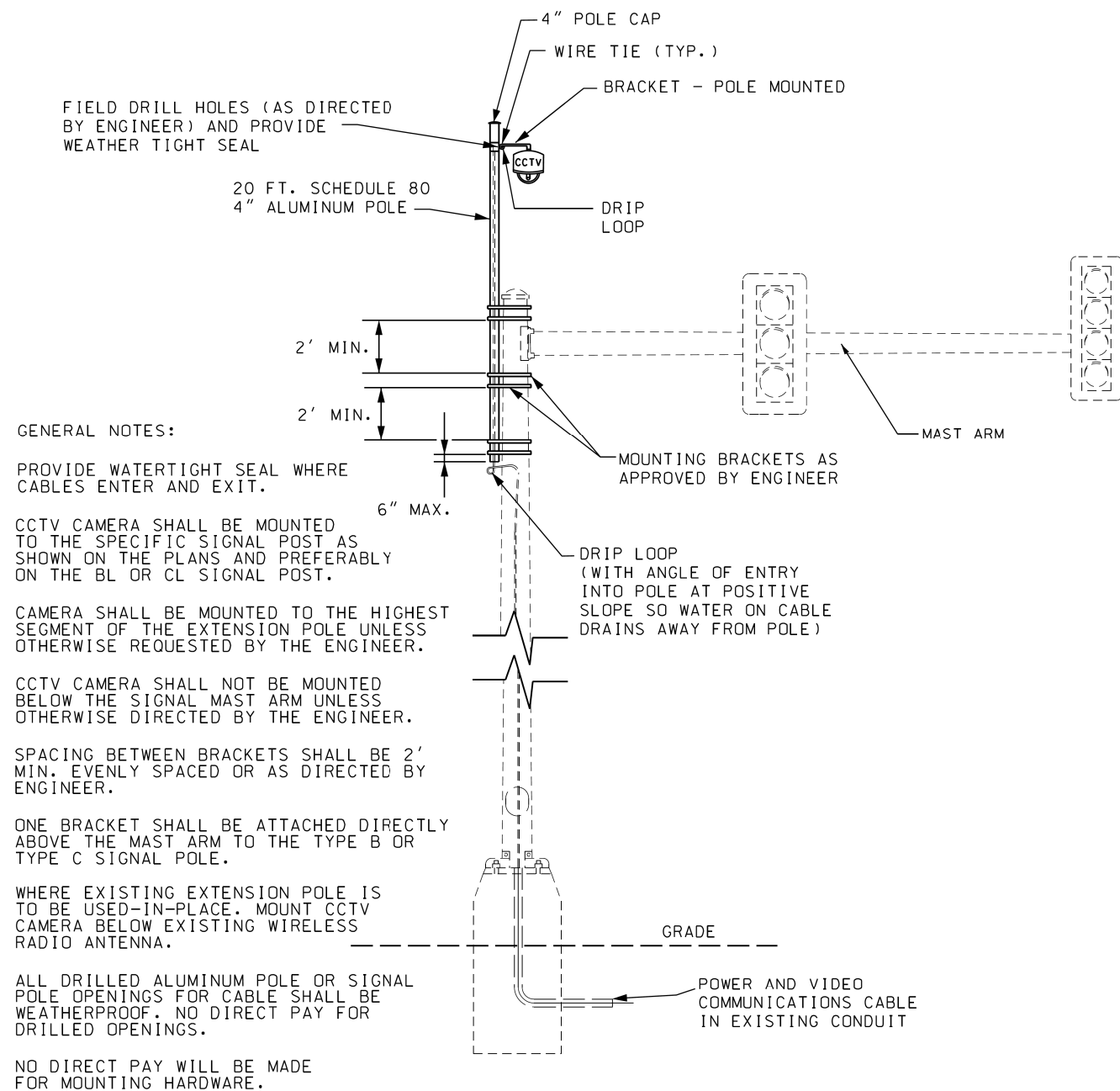
(H) TAPE BATTERY TEMPERATURE SENSOR TO THE SIDE OF EITHER BATTERY #2 OR BATTERY #3. SENSOR SHOULD BE TO THE MIDDLE OF THE BATTERY BANK.

(I) UTILITY COMPANY SHALL DECIDE IF LIGHTNING ARRESTORS ARE TO BE CONNECTED ON THE LINE SIDE OR THE LOAD SIDE OF THE METER. THE UTILITY COMPANY SHALL ALSO DETERMINE WHERE THE LIGHTNING ARRESTOR SHALL BE MOUNTED.

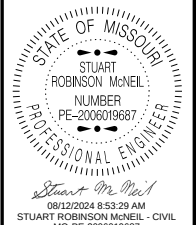
(J) INCLUDE ADDITIONAL CONDUITS AS NECESSARY FOR AUXILIARY CIRCUITS.

(K) SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.





REVISÉD 6-06-2024



MO-PE-2000019007

DATE PREPARED

8/9/2024	
ROUTE 109	STATE MO

DISTRICT	SHEET NO.
SL	49

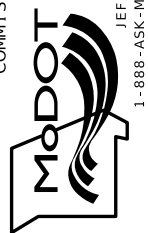
COUNTY
ST. LOUIS

JOB NO.
JSL0077

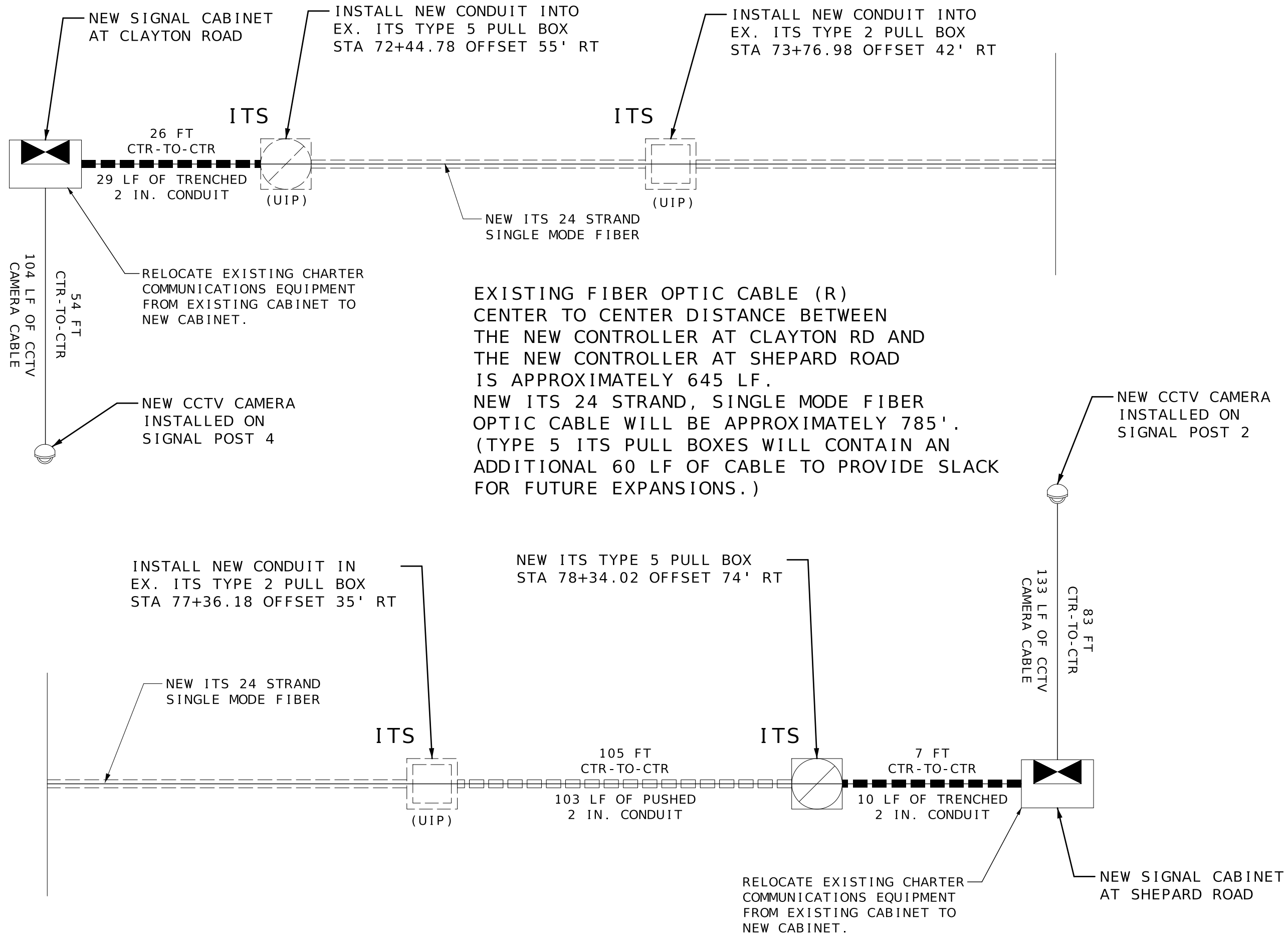
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

SIGNAL SHEET
CCTV CAMERA MOUNTING
TO SIGNAL POST DETAILS



STATE OF MISSOURI

STUART ROBINSON McNEIL

NUMBER

PE-2006019687

PROFESSIONAL ENGINEER

Stuart McNeil

09/12/2024 8:53:41 AM

STUART ROBINSON McNEIL - CIVIL

MO-PE-2006019687

DATE PREPARED

8/9/2024

ROUTE

109

STATE

MO

DISTRICT

SL

SHEET NO.

50

COUNTY

ST. LOUIS

JOB NO.

JSL0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

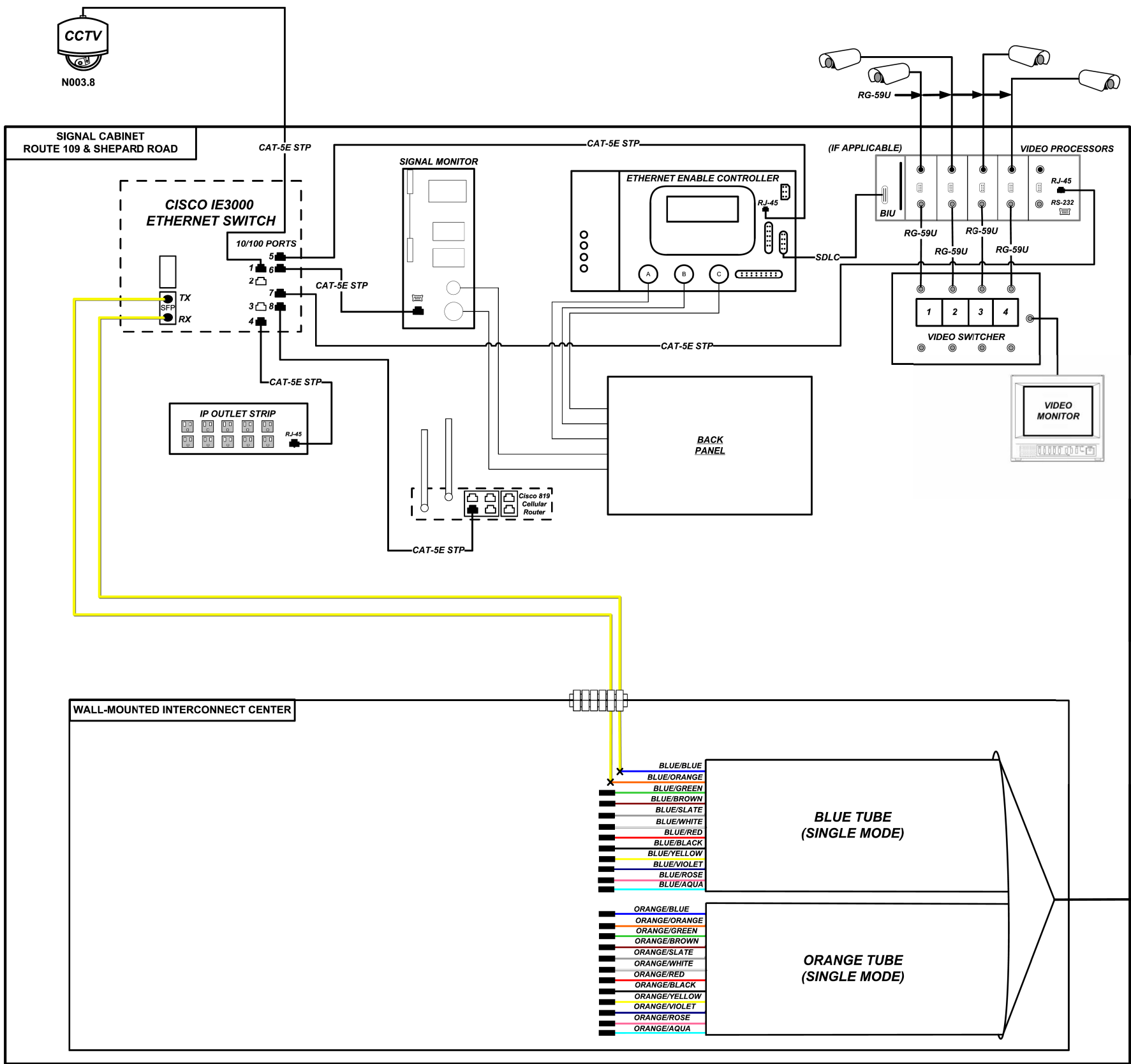
105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

ITS SHEET

ITS LAYOUT



KEY

MO270N123.4C DEVICE IDENTIFIER

CCTV CAMERA

EXISTING CCTV CAMERA

DMS DYNAMIC MESSAGE SIGN

DMS EXISTING DYNAMIC MESSAGE SIGN

SM PATCH THROUGH FIBER OPTIC JUMPER

SM EQUIPMENT CONNECTION FIBER OPTIC JUMPER

SM FIBER OPTIC PIGTAIL

MM PATCH THROUGH FIBER OPTIC JUMPER

MM EQUIPMENT CONNECTION FIBER OPTIC JUMPER

MM FIBER OPTIC PIGTAIL

BARE FIBER LEFT COILED IN SPLICE TRAY

EXISTING/PROPOSED FUSION SPLICE

PATCH PANEL MODULE

WIRELESS LINK

SENSYS DETECTION SYSTEM

1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
2. NO INTERMEDIATE SPLICES ALLOWED
3. ALL SPLICES SHALL BE FUSION SPLICES
4. DASHED LINES INDICATE EXISTING EQUIPMENT OR CABLING.

FIBER SPLICING &
BLOCK DIAGRAM
MO109N003.8
ROUTE 109 AT SHEPARD RD
SHEET 1 OF 2

STATE OF MISSOURI
STUART ROBINSON MOEHL
NUMBER
PE-2006019687
PROFESSIONAL ENGINEER

Stuart Robinson MoeHL
08/12/2024 9:02:24 AM
STUART ROBINSON MOEHL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/9/2024

ROUTE
109

STATE
MO

DISTRICT
SL

SHEET NO.
51

COUNTY
ST. LOUIS

JOB NO.
JSL0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

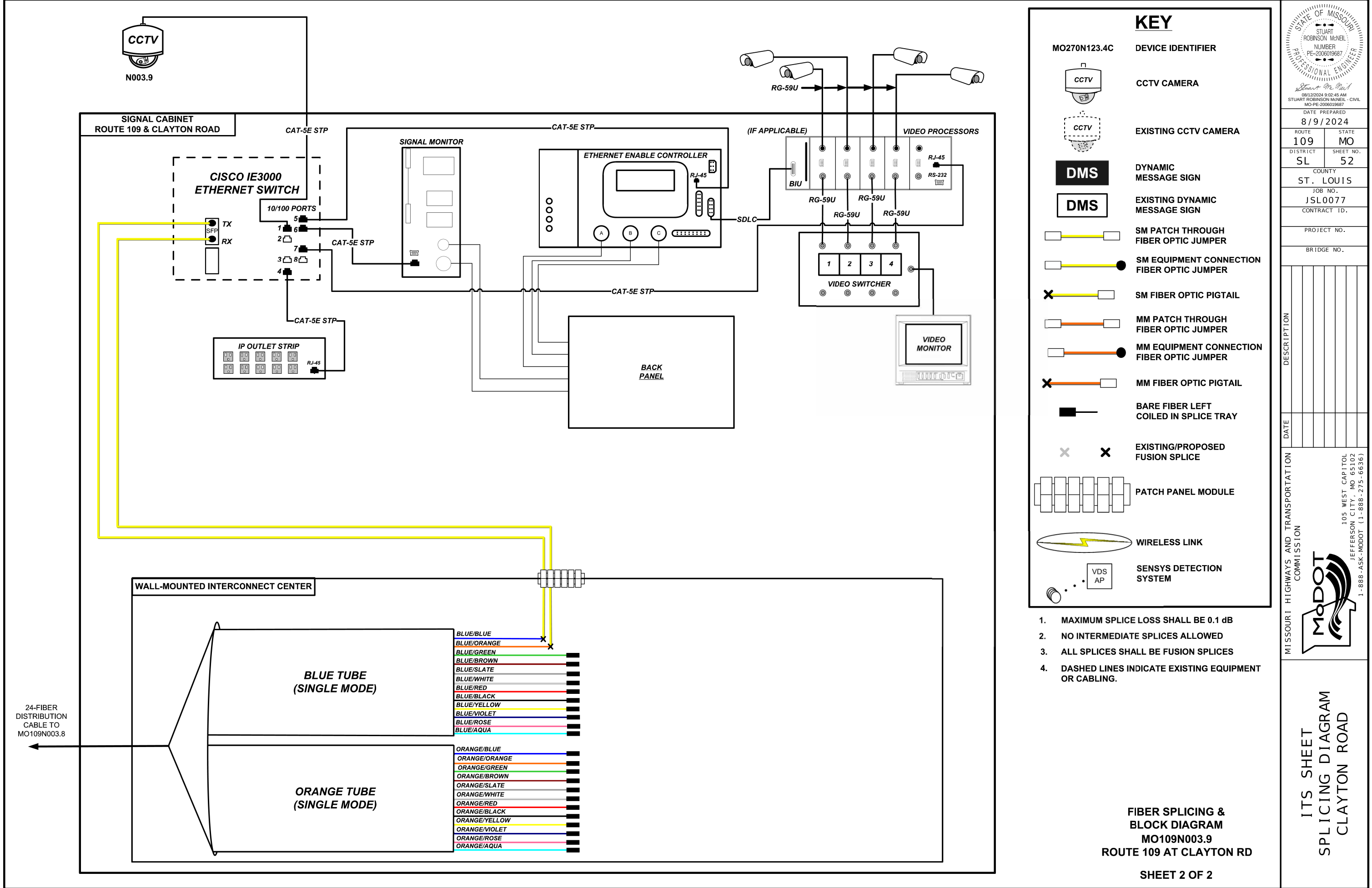
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

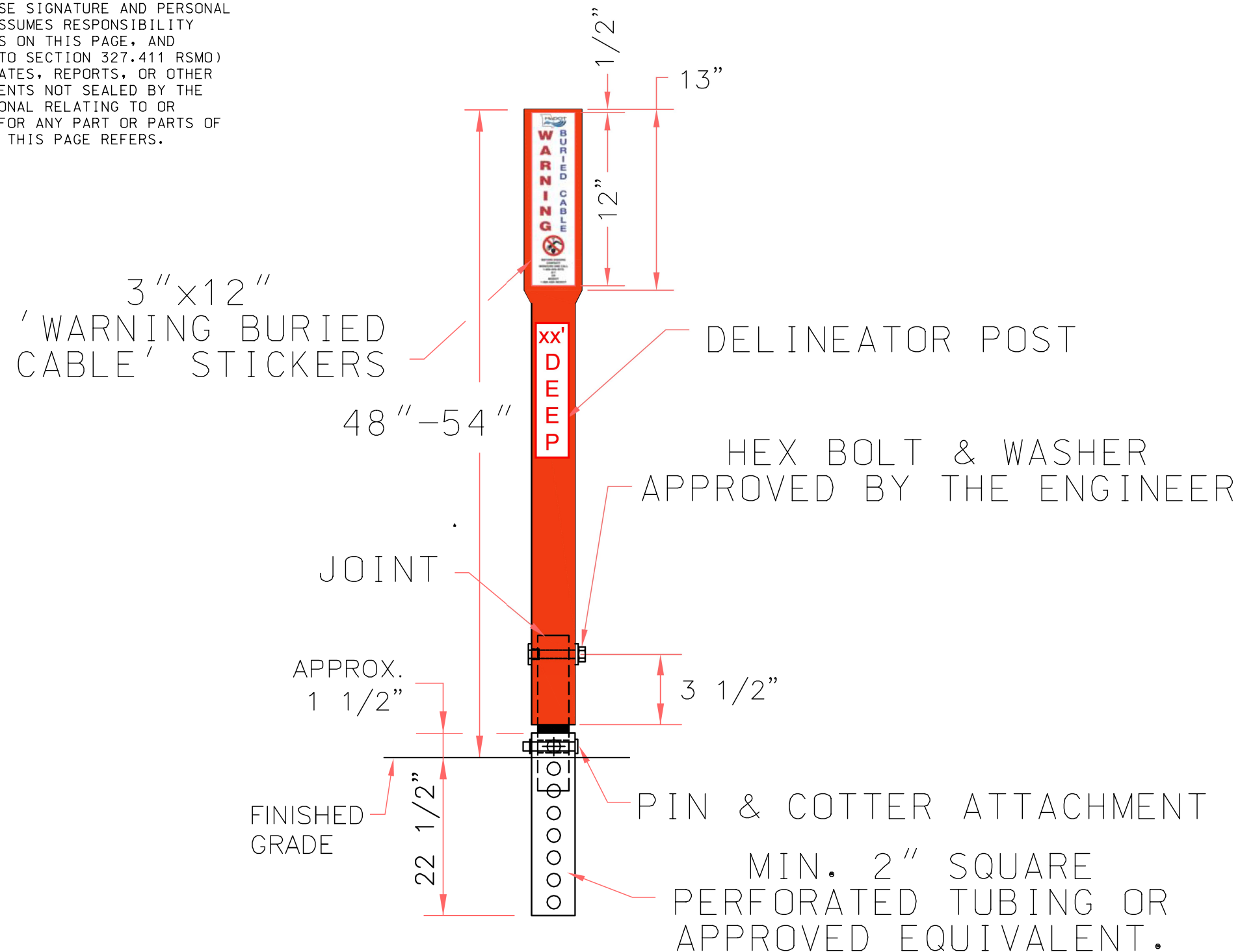
ITS SHEET
SPLICING DIAGRAM
SHEPARD ROAD



MODOT BURIED CABLE DRIVEABLE DELINEATOR POST W/ DEPTH STICKER

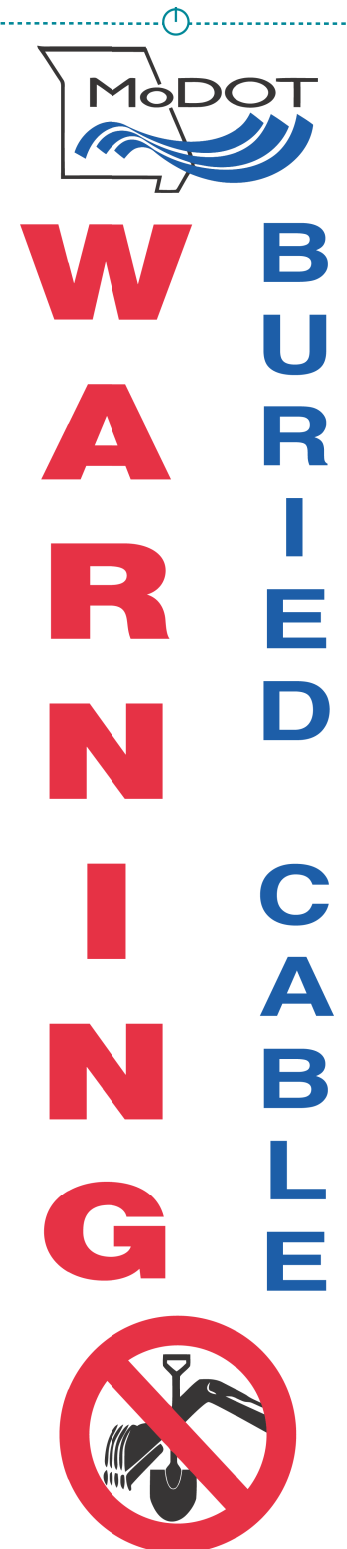
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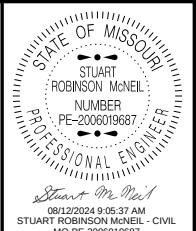


GENERAL NOTES:

1. STICKERS TO BE OF A NON-REFLECTIVE MATERIAL/SHEETING.
2. STICKERS SHALL BE PROVIDED ON 1 SIDE OF POST FOR INTERSTATE ROUTES UNLESS SPECIFIED BY THE ENGINEER.
3. STICKERS SHALL BE PROVIDED ON BOTH SIDES OF POST FOR ARTERIAL ROUTES UNLESS SPECIFIED BY THE ENGINEER.
4. STICKERS TO BE INCLUDED IN COST OF A DELINEATOR POST.
5. DEPTH STICKER SHALL BE 2"x12".



**BEFORE DIGGING
CONTACT:
MISSOURI ONE CALL
1-800-DIG-RITE
811
OR
MODOT
1-888-ASK-MODOT**



WUJFFE-ZU06013-3957	
DATE PREPARED	
8/9/2024	
ROUTE	STATE
109	MO
DISTRICT	SHEET NO.
SL	53
COUNTY	
ST. LOUIS	
JOB NO.	
JSL0077	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

The logo for the Missouri Department of Transportation (MoDOT) features the word "MoDOT" in a bold, sans-serif font. Below the text is a stylized graphic of a road or highway curving upwards and to the right, with several curved lines above it suggesting motion or a bridge structure.

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

ITS SHEET
BURIED CABLE-DRIVABLE
DELINEATOR POST

BRIDGE NO.

Technical drawing of a curb and gutter cross-section. The drawing shows a curb with a height of 18" and a width of 10". The curb is made of concrete and has a molded insert (cable hooks) typical in 4 places. The gutter is 7" deep and 6" wide. The gutter is filled with stone drain material (Type I drain). The gutter is 24" min. deep and 4" min. wide. The gutter is labeled "OPEN BOTTOM". The gutter is labeled "STONE DRAIN MATERIAL (TYPE I DRAIN)". The gutter is labeled "①".

A diagram of a rectangular plate with rounded corners. The plate is oriented horizontally. The total width of the plate is labeled as 10" with a dimension line above it. The total height of the plate is labeled as 10" with a dimension line to its right. The inner rectangular region is labeled A, and the outer rectangular region is labeled B. The plate is shown with a double-line border.

Technical drawing showing a cross-section and plan view of a cable rack assembly. The drawing includes the following labels and dimensions:

- Cross-section labels:**
 - CONCRETE PAD
 - #4 REBAR
 - 6" CABLE HOOKS (TYP.)
 - TIE TO CABLE RACK
 - LOCATOR CABLE WIRE (TYP.)
 - OPEN BOTTOM
 - GROUND ROD
- Plan view labels:**
 - STONE DRAIN MATERIAL TYPE 1 DRAIN
- Dimensions:**
 - 10" MIN. (TYP.)
 - 6"
 - 30"
 - 36"
 - 30"
- Notes:**
 - DEPTH - BASED ON CONDUIT RUN DEPTH

1. ☐ 10"

2. ☐ 10"

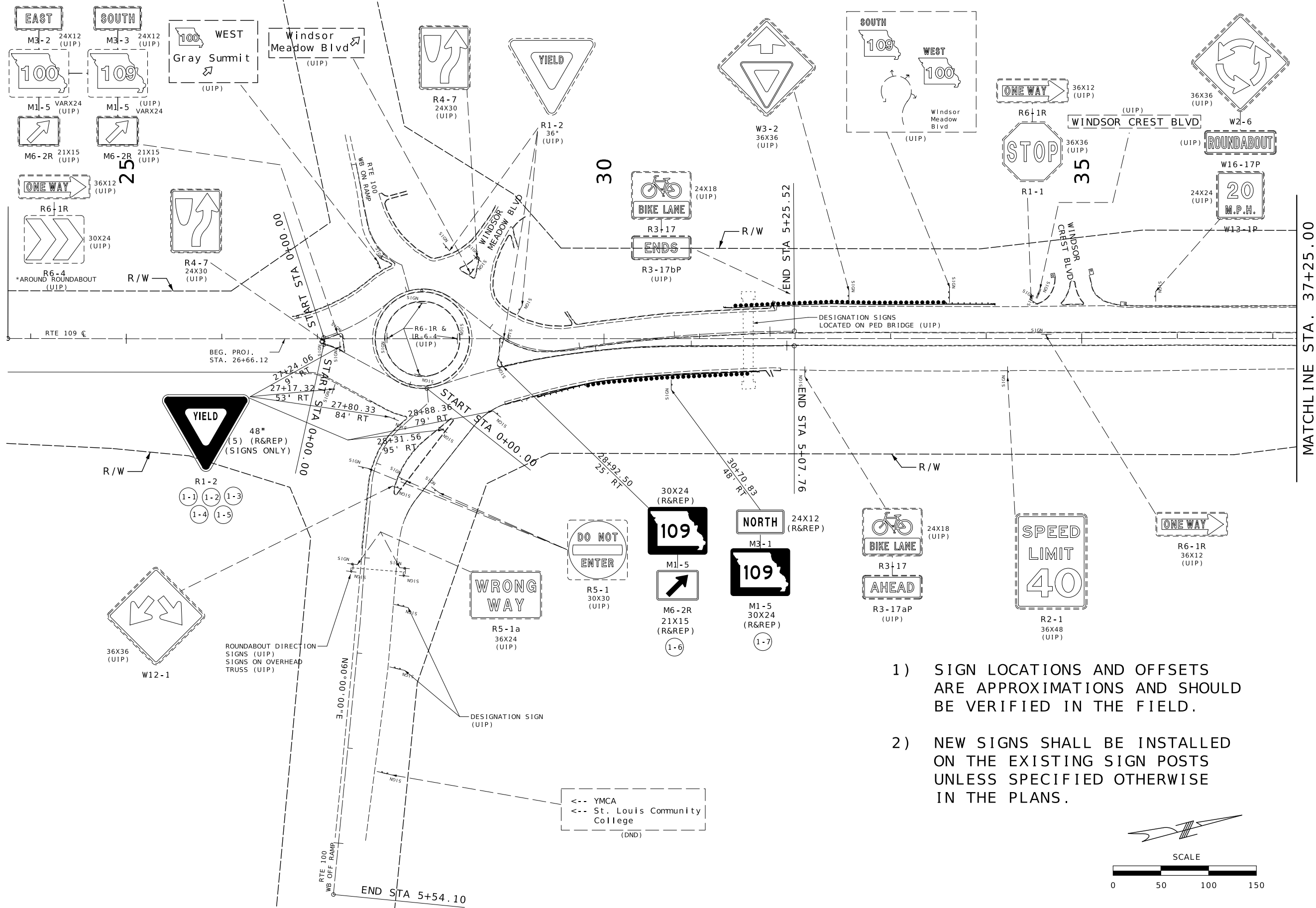
3. ☐ 10"

1. PROVIDE TYPE II DRAIN AS DIRECTED BY ENGINEER. SEE STANDARD PLAN 902.20 FOR TYPE II DRAIN DETAILS.
2. GROUND ROD ONLY REQUIRED IN PULL BOX NEAREST TO AN ITS OR SIGNAL CABINET.
3. IN THE PULL BOX NEAREST THE ITS OR SIGNAL CABINET, CONNECT THE TRACER WIRE TO A GROUND ROD CLAMP AND PROVIDE 5 FEET OF SLACK.

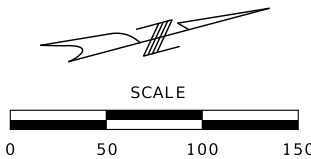
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FOR PULL BOX DIMENSIONS SEE STANDARD PLAN 902.20

SPECIAL SHEET
ITS PULL BOXES
WITH CONC. PADS



- 1) SIGN LOCATIONS AND OFFSETS ARE APPROXIMATIONS AND SHOULD BE VERIFIED IN THE FIELD.
- 2) NEW SIGNS SHALL BE INSTALLED ON THE EXISTING SIGN POSTS UNLESS SPECIFIED OTHERWISE IN THE PLANS.



STATE OF MISSOURI

STUART ROBINSON MOORE

NUMBER

PE-2006019687

PROFESSIONAL ENGINEER

Stuart Robinson Moore

08/12/2024 9:55:17 AM

STUART ROBINSON MOORE - CIVIL

MO-PE-2006019687

DATE PREPARED

8/9/2024

ROUTE

109

STATE

MO

DISTRICT

SL

SHEET NO.

55

COUNTY

ST. LOUIS

JOB NO.

JSL0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

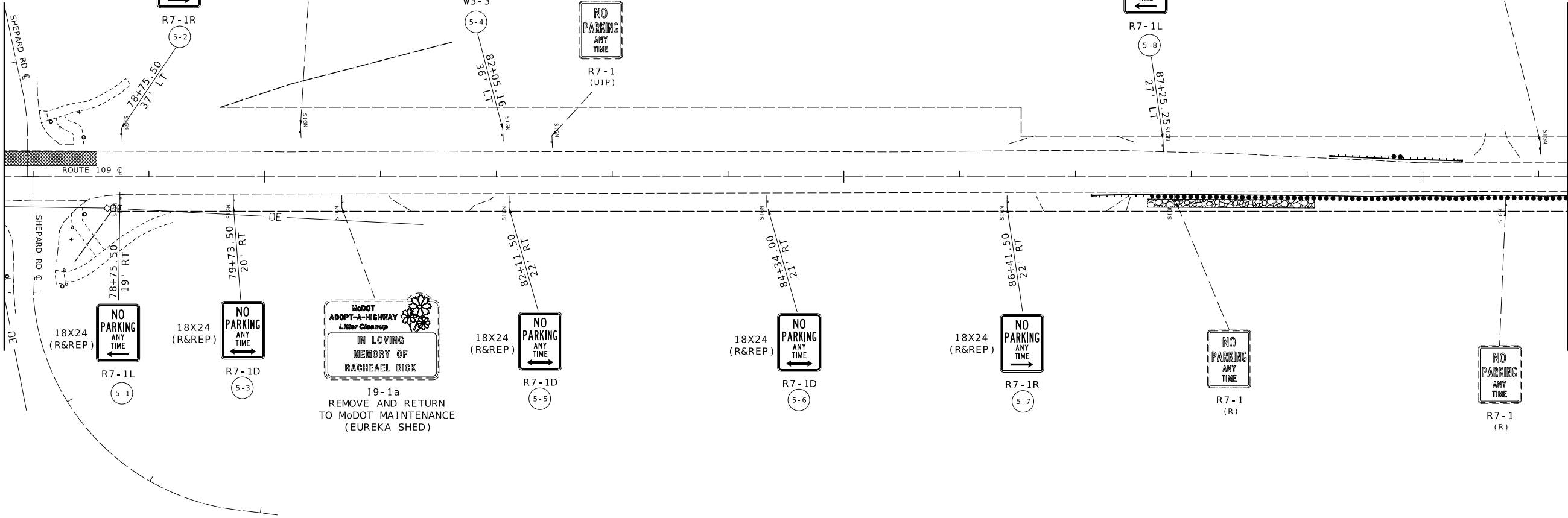
105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

SIGNING SHEET

MATCHLINE STA. 77+75.00



MATCHLINE STA. 91+25.00

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER
PE-2006019687
PROFESSIONAL ENGINEER
08/12/2024 9:04:38 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/9/2024
ROUTE
109
STATE
MO
DISTRICT
SL
SHEET NO.
59
COUNTY
ST. LOUIS
JOB NO.
JSL0077
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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

SIGNING SHEET

MATCHLINE STA. 91+25.00

95

100

MATCHLINE STA. 104+75.00

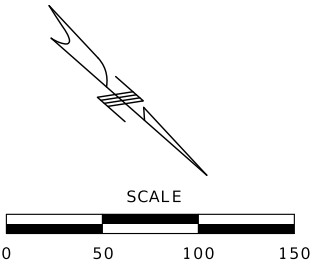
ROUTE 109

OLD EATHERTON RD
(UIP)

OLD EATHERTON RD

BENT RIDGE DR

Bent Ridge Dr
(UIP)

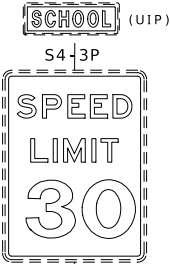


36X36
(UIP)



R1-1

36X48
(UIP)



S4-3P

(UIP)



S4-4P

36X36
(R&REP)



S1-1



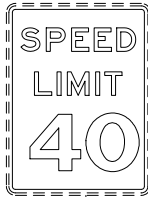
W16-9P

(6-1)

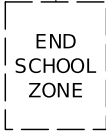
24X12
(R&REP)

102+05.34
27' LT

36X48
(UIP)



R2-1



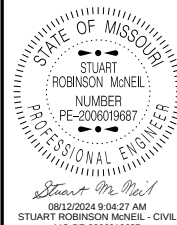
S5-2

24X30
(UIP)

36X36
(UIP)



R1-1



DATE PREPARED
8/9/2024

ROUTE 109 STATE MO

DISTRICT SL SHEET NO. 60

COUNTY ST. LOUIS

JOB NO. JSL0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

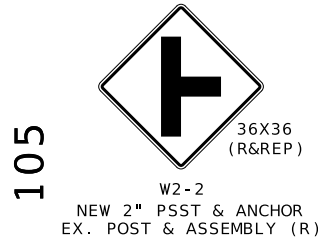
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

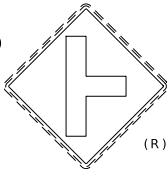
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNING SHEET

MATCHLINE STA. 104+75.00



7-2
106+22.75
21' LT



W2-2



19-1a
REMOVE AND RETURN
TO MoDOT MAINTENANCE
(EUREKA SHED)

STREET SIGN
TO BE REMOVED BY
ROUNDAABOUT PROJECT.

BIKE ROUTE SIGNS
TO BE REMOVED BY
ROUNDAABOUT PROJECT.

110



R1-1
TO BE REMOVED
BY ROUNDAABOUT
PROJECT.



M1-5a



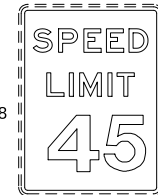
M6-1
TO BE REMOVED
BY ROUNDAABOUT
PROJECT.

BABLER RD

115



R2-1



R2-1

7-5
118+16.45
21' LT

MATCHLINE STA. 118+25.00

21X15 (R&REP)
JCT
M2-1
30X24 (R&REP)
BA
M1-5a
7-1
104+75.00
116+18.83
20' RT



M5-1L
NEW 2" PSST & ANCHOR
EX. POST & ASSEMBLY (R)

7-3

VARX24 (UIP)



21X15 (UIP)



M6-1

TO BE REMOVED
BY ROUNDAABOUT
PROJECT.



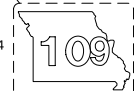
M1-5



M6-3

TO BE REMOVED
BY ROUNDAABOUT
PROJECT.

VARX24 (UIP)



21X15 (UIP)



M6-4
TO BE REMOVED
BY ROUNDAABOUT
PROJECT.

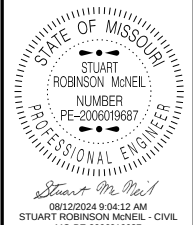
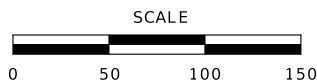


M1-5

TO BE REMOVED
BY ROUNDAABOUT
PROJECT.



19-1a
REMOVE AND RETURN
TO MoDOT MAINTENANCE
(EUREKA SHED)



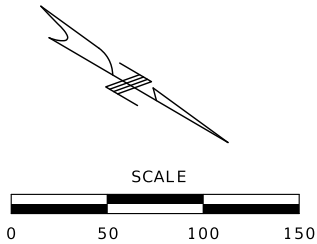
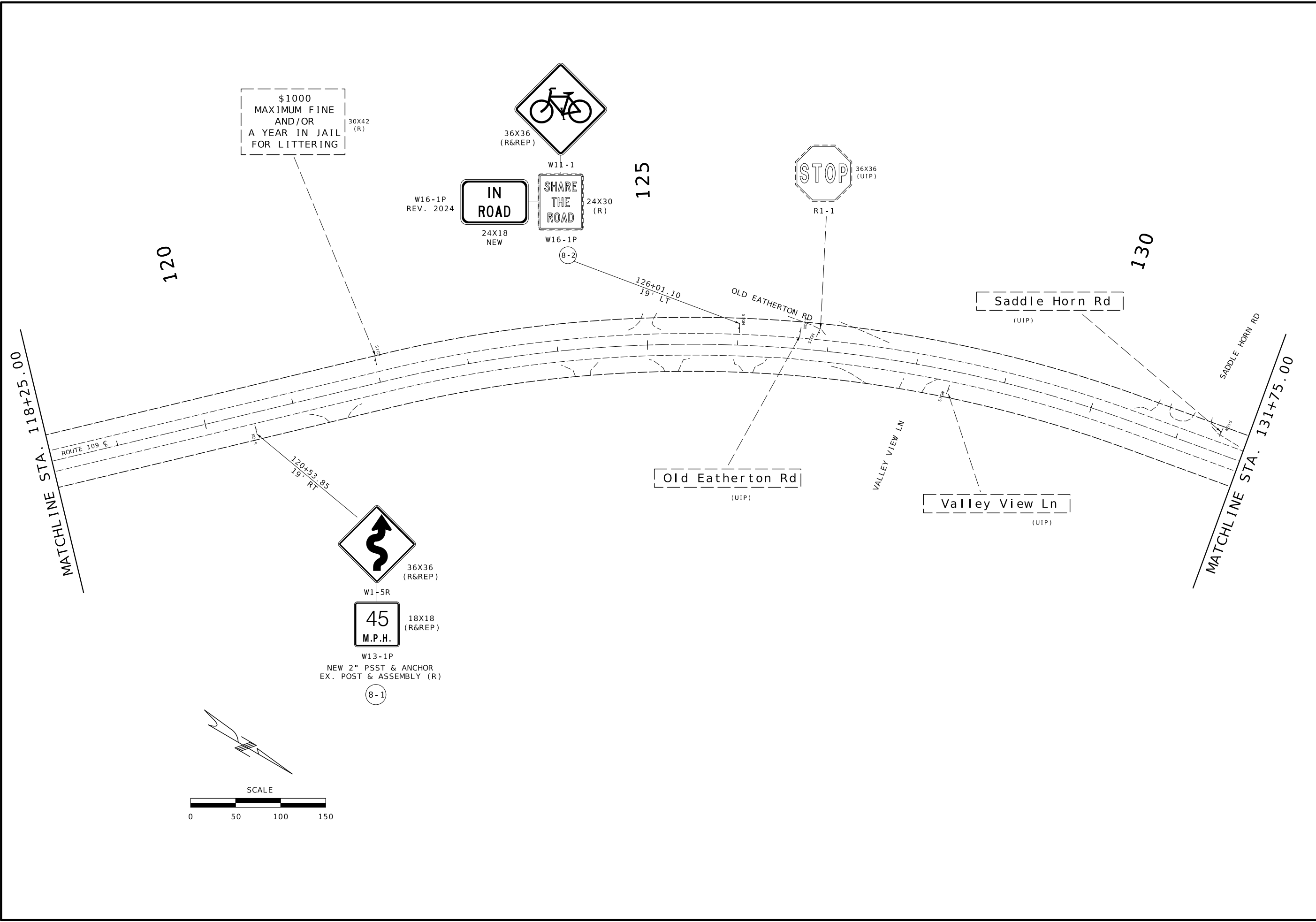
DATE PREPARED 8/9/2024	
ROUTE 109	STATE MO
DISTRICT SL	SHEET NO. 61
COUNTY ST. LOUIS	
JOB NO. JSL0077	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SIGNING SHEET



STATE OF MISSOURI

STUART ROBINSON McNEIL

NUMBER

PE-2006019687

PROFESSIONAL ENGINEER

Stuart McNeil

08/12/2024 9:04:02 AM

STUART ROBINSON McNEIL - CIVIL

MO-PE-2006019687

DATE PREPARED

8/9/2024

ROUTE

109

DISTRICT

SL

COUNTY

ST. LOUIS

JOB NO.

JSL0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

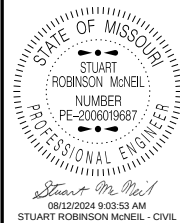
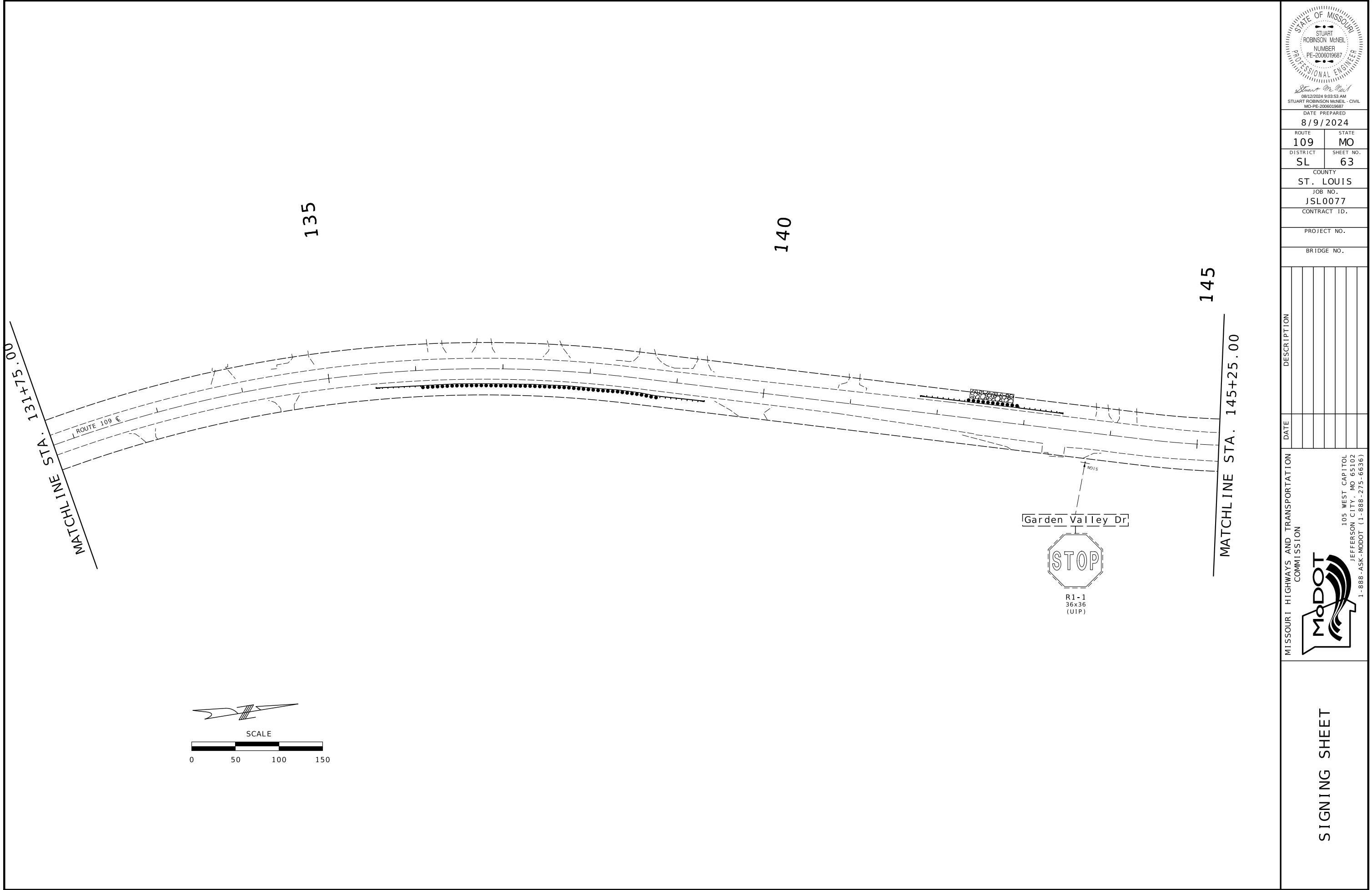
MoDOT

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

SIGNING SHEET



DATE PREPARED 8/9/2024	
ROUTE 109	STATE MO
DISTRICT SL	SHEET NO. 63
COUNTY ST. LOUIS	
JOB NO. JSL0077	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

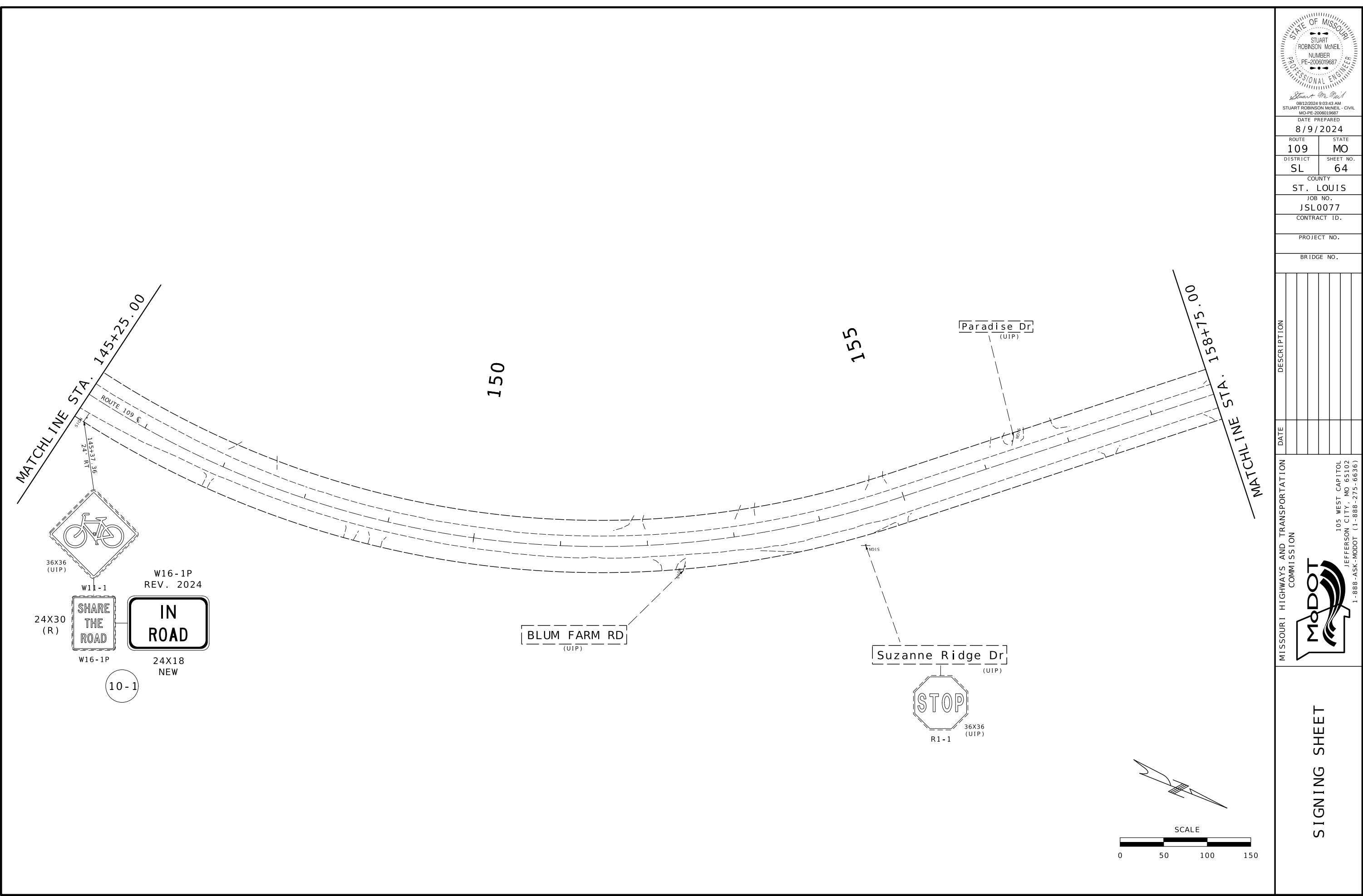
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

SIGNING SHEET



36X36
(UIP)

W11-1

24X30
(R)

SHARE
THE
ROAD

W16-1P

24X18
NEW

IN
ROAD

10-1

W16-1P
REV. 2024

BLUM FARM RD
(UIP)

Suzanne Ridge Dr
(UIP)

R1-1
36X36
(UIP)

Paradise Dr
(UIP)

STATE OF MISSOURI

STUART
ROBINSON McNEIL

NUMBER
PE-2006019687

PROFESSIONAL ENGINEER

09/12/2024 9:03:43 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/9/2024

ROUTE
109

DISTRICT
SL

COUNTY
ST. LOUIS

JOB NO.
JSL0077

CONTRACT ID.

STATE
MO

SHEET NO.
64

PROJECT NO.

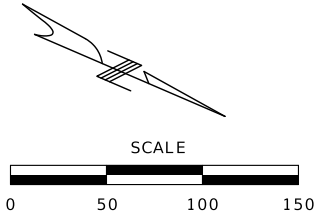
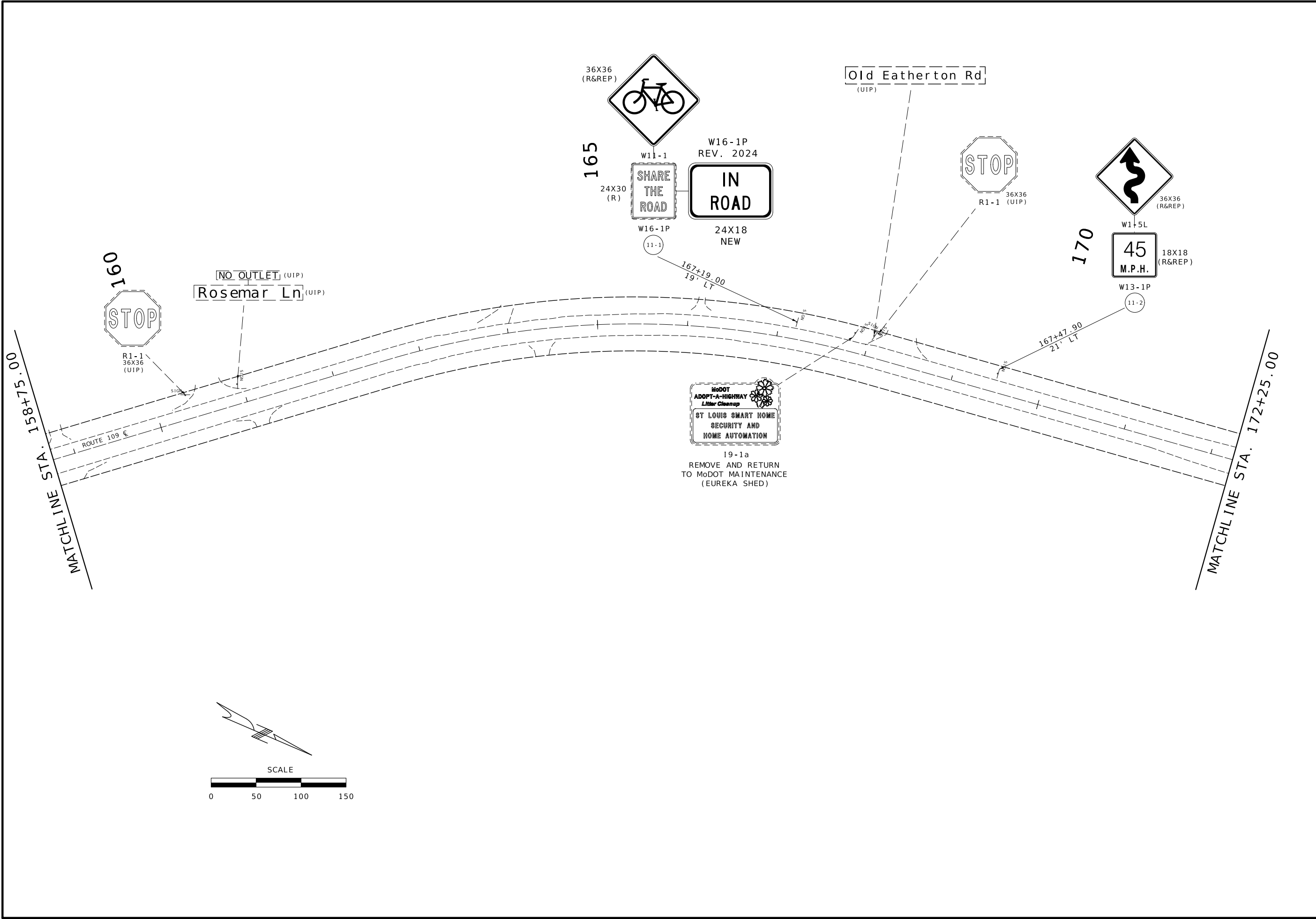
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

SIGNING SHEET



STATE OF MISSOURI

STUART ROBINSON McNEIL

NUMBER

PE-2006019687

PROFESSIONAL ENGINEER

Stuart McNeil

08/12/2024 9:03:33 AM

STUART ROBINSON McNEIL - CIVIL

MO-PE-2006019687

DATE PREPARED

8/9/2024

ROUTE

109

STATE

MO

DISTRICT

SL

SHEET NO.

65

COUNTY

ST. LOUIS

JOB NO.

JSL0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

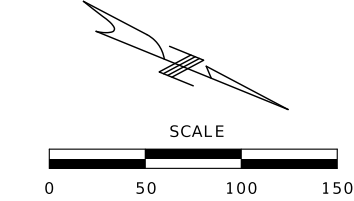
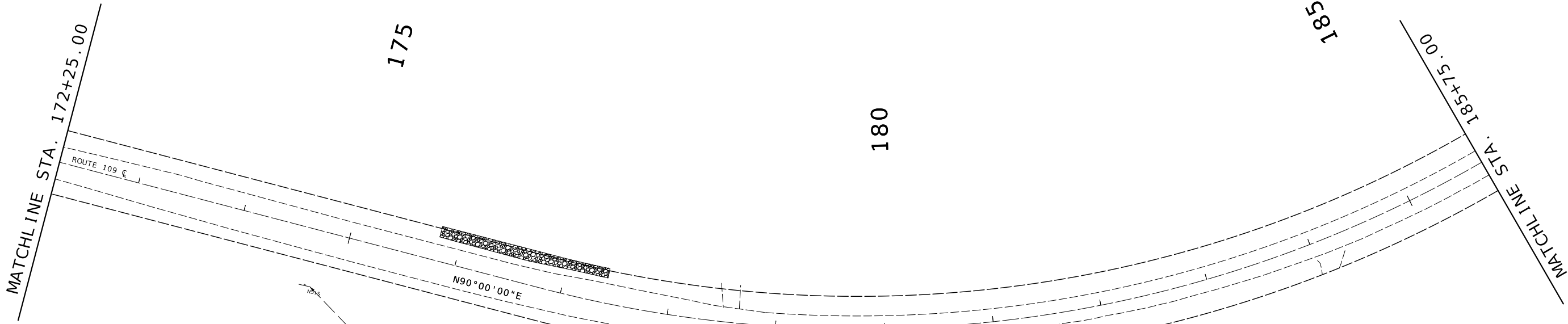
MoDOT

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

SIGNING SHEET



STATE OF MISSOURI

STUART

ROBINSON MCNEIL

NUMBER

PE-2006019687

PROFESSIONAL ENGINEER

Stuart McNeil

08/12/2024 9:03:24 AM

STUART ROBINSON MCNEIL - CIVIL

MO-PE-2006019687

DATE PREPARED

8/9/2024

ROUTE

109

DISTRICT

SL

STATE

MO

SHEET NO.

66

COUNTY

ST. LOUIS

JOB NO.

JSL0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

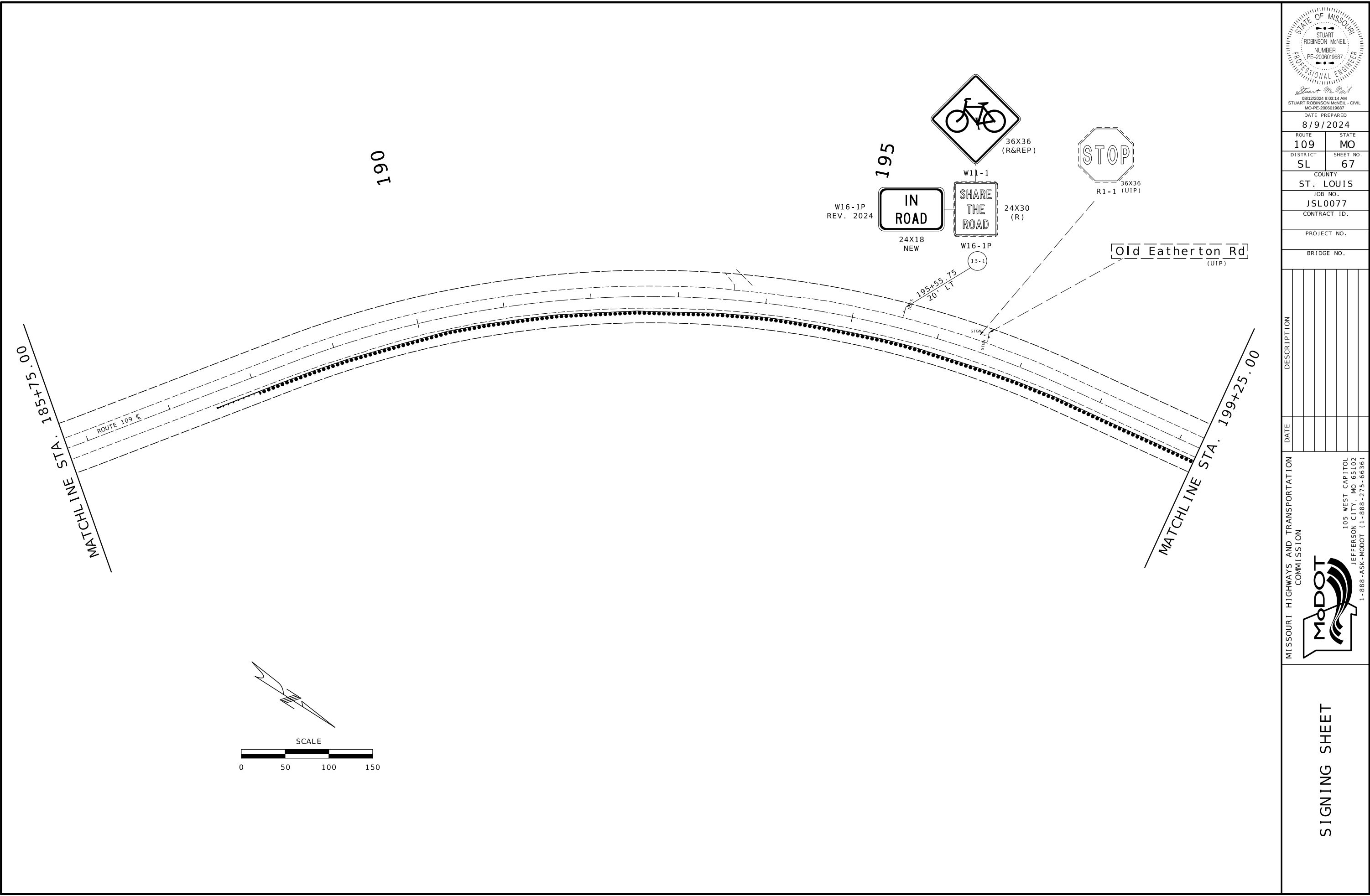
MoDOT

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

SIGNING SHEET



STATE OF MISSOURI

STUART ROBINSON McNEIL

NUMBER
PE-2006019687

PROFESSIONAL ENGINEER

Stuart McNeil

08/12/2024 9:03:14 AM

STUART ROBINSON McNEIL - CIVIL

MO-PE-2006019687

DATE PREPARED		8/9/2024	
ROUTE	STATE	109	MO
DISTRICT	SHEET NO.	SL	67
COUNTY			
ST. LOUIS			
JOB NO.			
JSL0077			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			

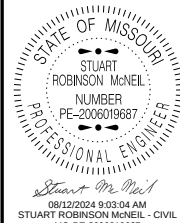
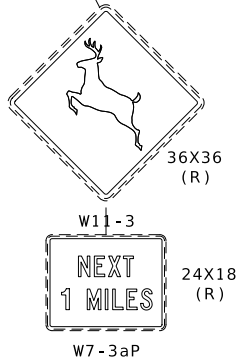
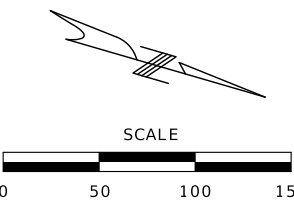
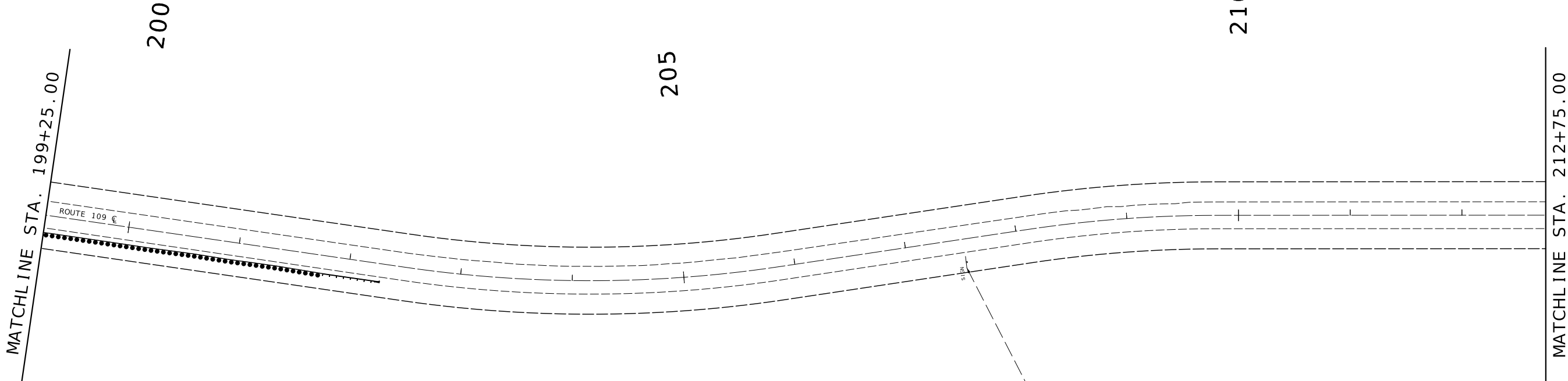
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

SIGNING SHEET



DATE PREPARED 8/9/2024	
ROUTE 109	STATE MO
DISTRICT SL	SHEET NO. 68
COUNTY ST. LOUIS	
JOB NO. JSL0077	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

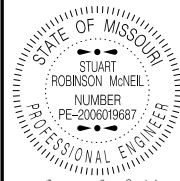
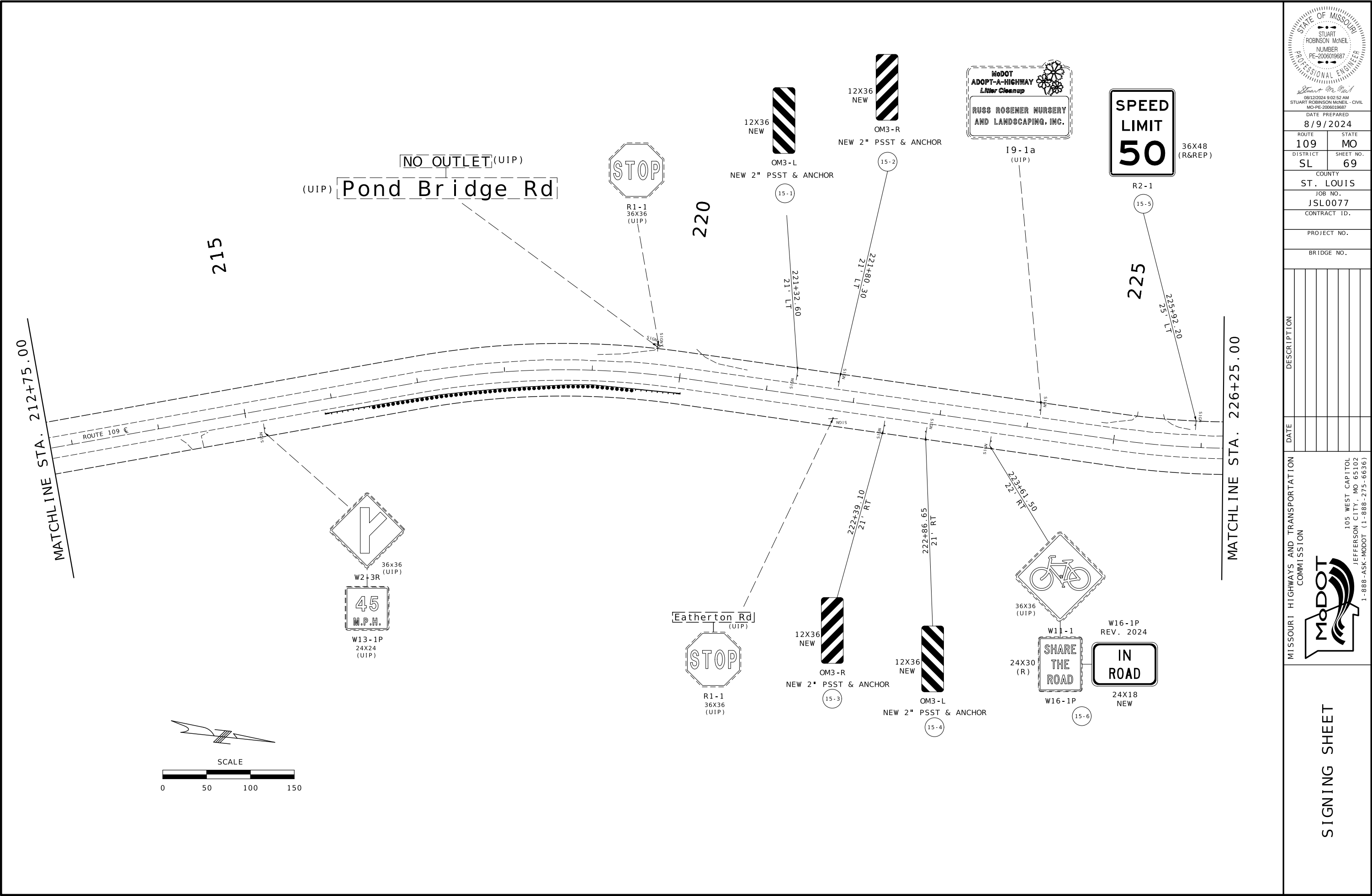
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

SIGNING SHEET



Stuart Robinson McNeil
08/12/2024 9:02:52 AM
STUART ROBINSON MCNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/9/2024

ROUTE STATE
109 MO

DISTRICT SHEET NO.
SL 69

COUNTY
ST. LOUIS

JOB NO.
JSL0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

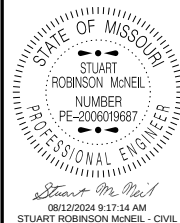
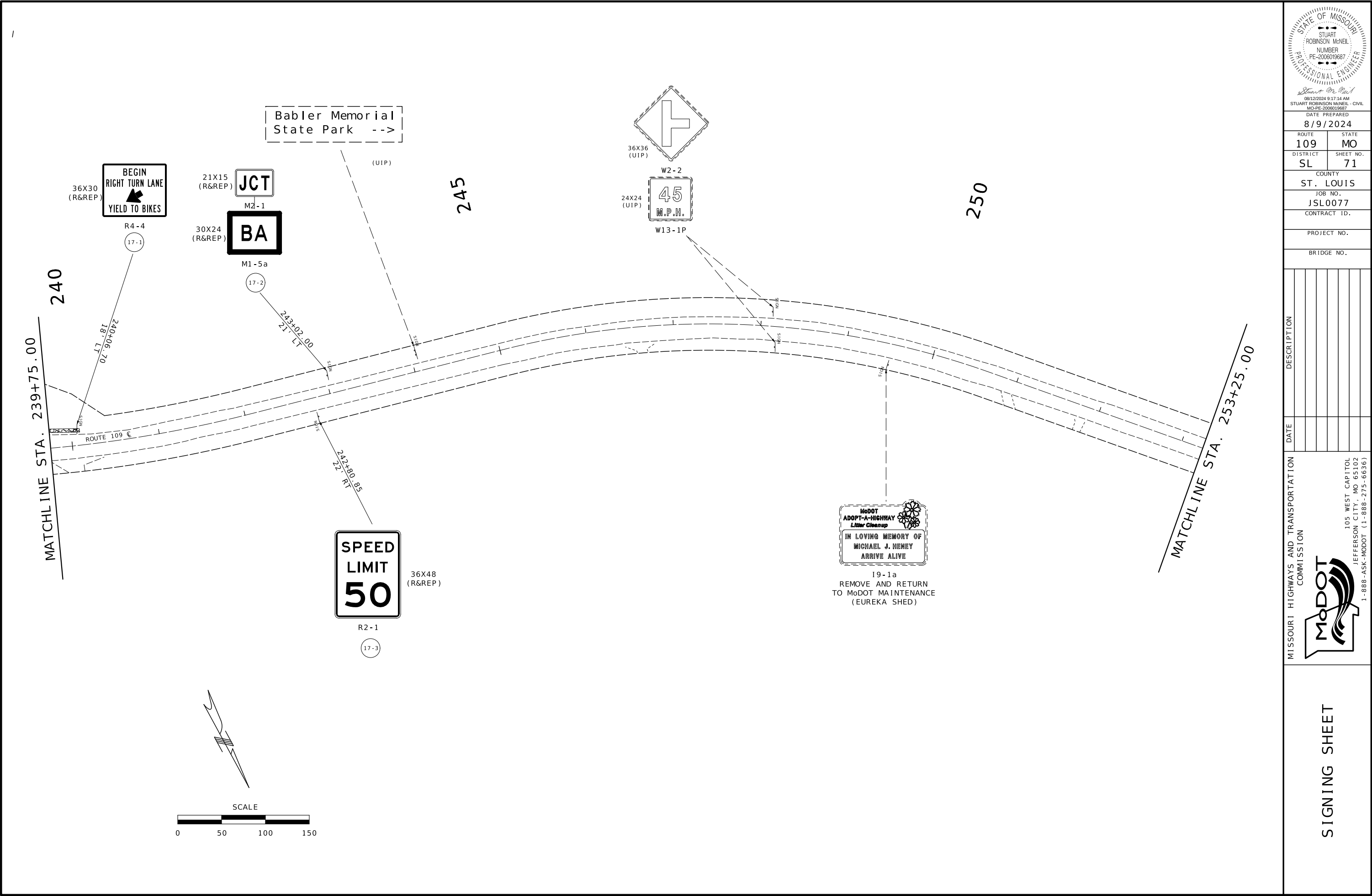
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



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

SIGNING SHEET



DATE PREPARED 8/9/2024	
ROUTE 109	STATE MO
DISTRICT SL	SHEET NO. 71
COUNTY ST. LOUIS	
JOB NO. JSL0077	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

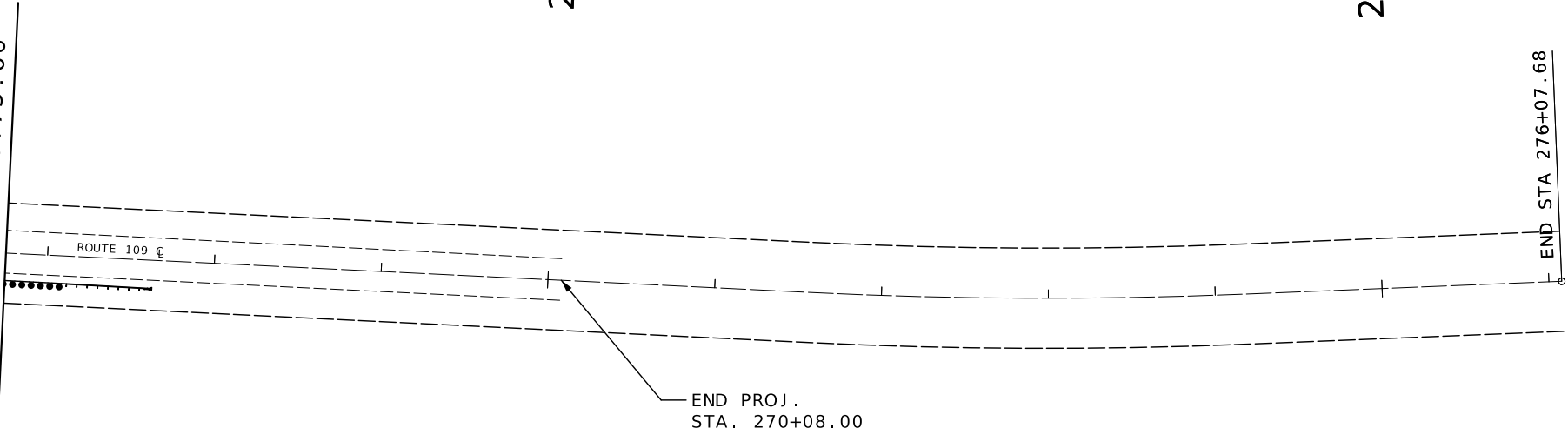
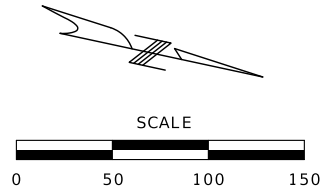
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

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

SIGNING SHEET

MATCHLINE STA. 266+75.00



DATE PREPARED
8/9/2024

ROUTE	STATE
109	MO
DISTRICT	SHEET NO.
SL	73

COUNTY
ST. LOUIS

JOB NO.
JSL0077

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)

SIGNING SHEET

SIGNS

902 SIGNAL SIGNS TABULATED ON D-37A SHEET

SIGN NO.

SIGN SIZE

STATION

HORZ CLEAR IF NOT STD

LOCATION

SIGN DTL. SHT. NO.

ITEM NO. 9031010

CY

CONCRETE FOOTINGS EMBEDDED

POST DES NO.

POST NO. 1

POST NO. 2

POST NO. 3

LBS PER FT

ITEM NO. 9031210

LBS

STRUCTURAL STEEL POSTS *

PIPE SIZE

POST NO. 1

POST NO. 2

LBS PER FT

ITEM NO. 9031220

LBS

PIPE POSTS *

2" X 3/8" BARS @ 2.55 LBS PER FT

NO.

LGTH

TOTAL

TOTAL

BACKING BARS **

ITEM NO. 9031250A

LF

U-CHANNEL POST

PERFORATED SQUARE STEEL TUBE

2 IN. POST

2.5 IN. POST

POST NO. 1

POST NO. 2

ITEM NO. 9031270A

DRIVEN 12-GA. ITEM NO. 9031271A

ANCHORS 7-GA. ITEM NO. 9031273A

CONCRETE 7-GA. ITEM NO. 9031274

POST NO. 1

POST NO. 2

ITEM NO. 9031280

2.25" INSERT (6 FT) ITEM NO. 9031272A

ANCHORS 7-GA. ITEM NO. 9031281A

CONCRETE 7-GA. ITEM NO. 9031285

BREAK-AWAY ASSEMBLY ITEM NO. 9031241

REMARKS AND OTHER REQUIRED ITEMS

DATE PREPARED

8/9/2024

ROUTE

109

STATE

MO

DISTRICT

SL

SHEET NO.

74

COUNTY

ST. LOUIS

JOB NO.

JSL0077

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)

SIGNING SHEET

ALL SIGN POSTS ARE TO BE USED IN PLACE UNLESS SPECIFIED OTHERWISE IN THE PLANS.

ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE	WEIGHT		STUB LENGTH	FOOTING		CONCRETE
(IN.)	LBS/FT	LBS/IN		DIA.	DEPTH	
2 1/2	5.79	0.48	4'- 3/4"	12"	4-6"	0.13
4	10.79	0.90	5'- 3/4"	18"	5-6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST		STUB LENGTH	DIA.	FOOTING							
		WEIGHT				LEVEL GROUND	6:1 GRADE		4:1 GRADE		3:1 OR 2:1 GRADE		
		LBS/FT	LBS/IN				DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.	
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.

** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

SUBTOTAL

0.34

301.5

42.4

222.45

17.0

TOTAL

0.40

350.0

**

223.00

17.0

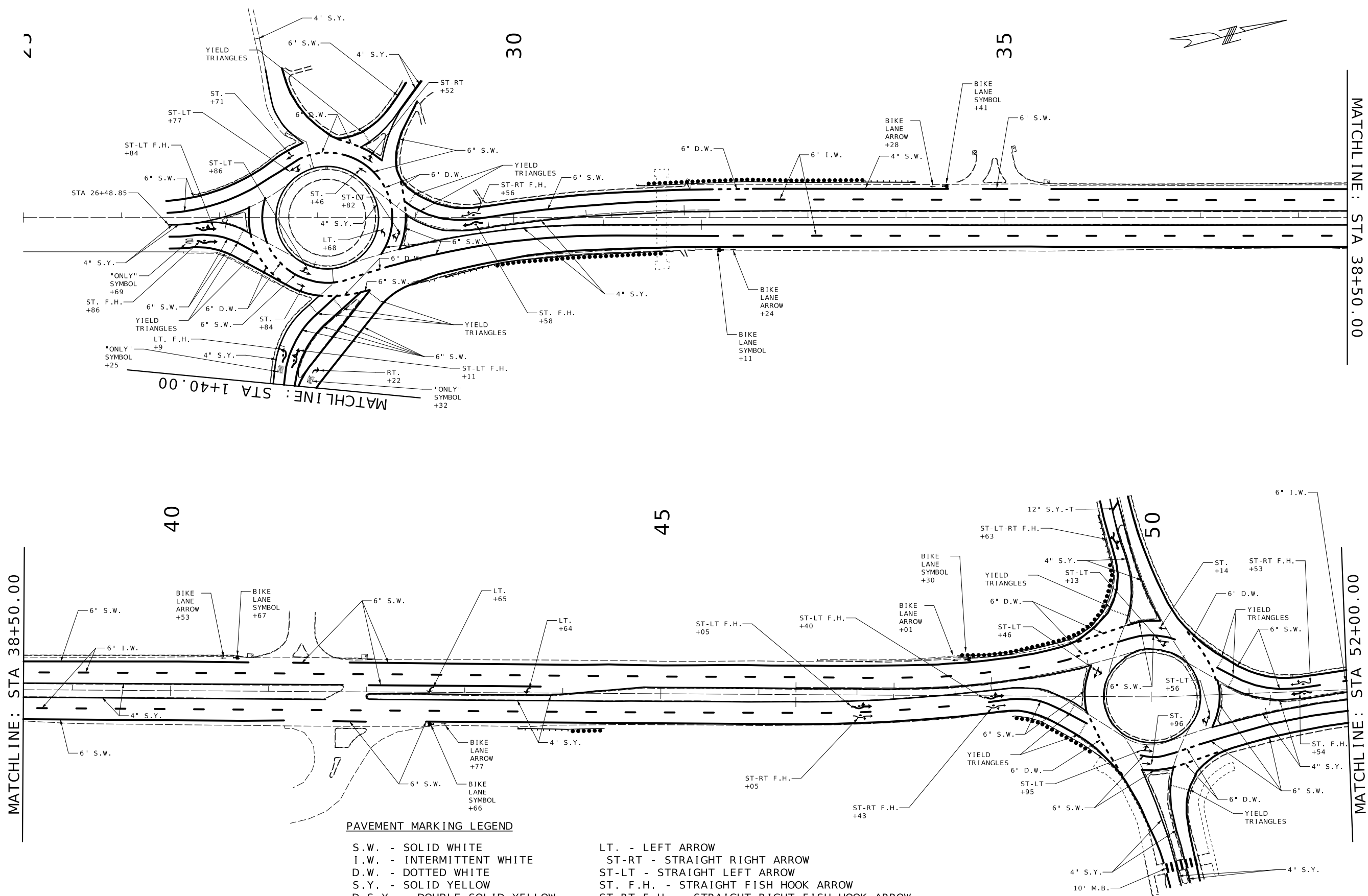
D-29

TYPE

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COMMISSION

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

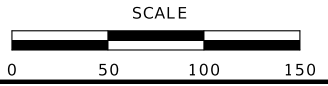
SIGNING SHEET



MATCHLINE: STA 38+50.00

MATCHLINE: STA 38+50.00

MATCHLINE: STA 52+00.00



PAVEMENT MARKING LEGEND

- | | |
|------------------------------|---|
| S.W. - SOLID WHITE | LT. - LEFT ARROW |
| I.W. - INTERMITTENT WHITE | ST-RT - STRAIGHT RIGHT ARROW |
| D.W. - DOTTED WHITE | ST-LT - STRAIGHT LEFT ARROW |
| S.Y. - SOLID YELLOW | ST. F.H. - STRAIGHT FISH HOOK ARROW |
| D.S.Y. - DOUBLE SOLID YELLOW | ST-RT F.H. - STRAIGHT RIGHT FISH HOOK ARROW |
| M.B. - MID BLOCK | ST-LT F.H. - STRAIGHT LEFT FISH HOOK ARROW |
| ST. - STRAIGHT ARROW | ST-LT-RT F.H. - STRAIGHT LEFT RIGHT FISH HOOK ARROW |
| RT. - RIGHT ARROW | LT. F.H. - LEFT FISH HOOK ARROW |



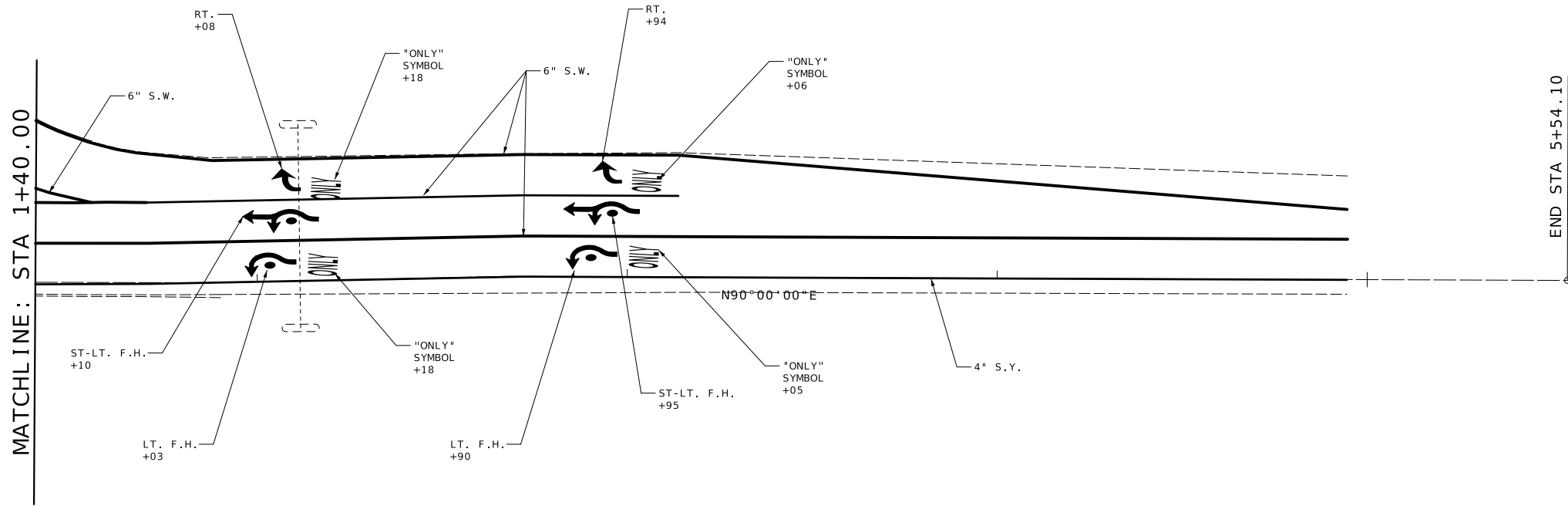
DATE PREPARED 8/9/2024	
ROUTE 109	STATE MO
DISTRICT SL	SHEET NO. 77
COUNTY ST. LOUIS	
JOB NO. JSL0077	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

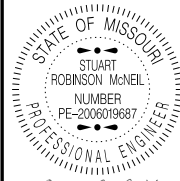
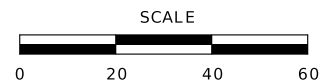
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PAVEMENT MARKING
SHEET 1 OF 11



PAVEMENT MARKING LEGEND

- S.W. - SOLID WHITE
I.W. - INTERMITTENT WHITE
D.W. - DOTTED WHITE
S.Y. - SOLID YELLOW
D.S.Y. - DOUBLE SOLID YELLOW
RT. - RIGHT ARROW
ST-LT-F.H. - STRAIGHT LEFT FISH HOOK ARROW
LT. F.H. - LEFT FISH HOOK ARROW



DATE PREPARED
8/9/2024

ROUTE 109 STATE MO

DISTRICT SL SHEET NO. 78

COUNTY
ST. LOUIS

JOB NO.
JSL0077

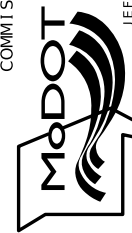
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PROJECT NO.

BRIDGE NO.

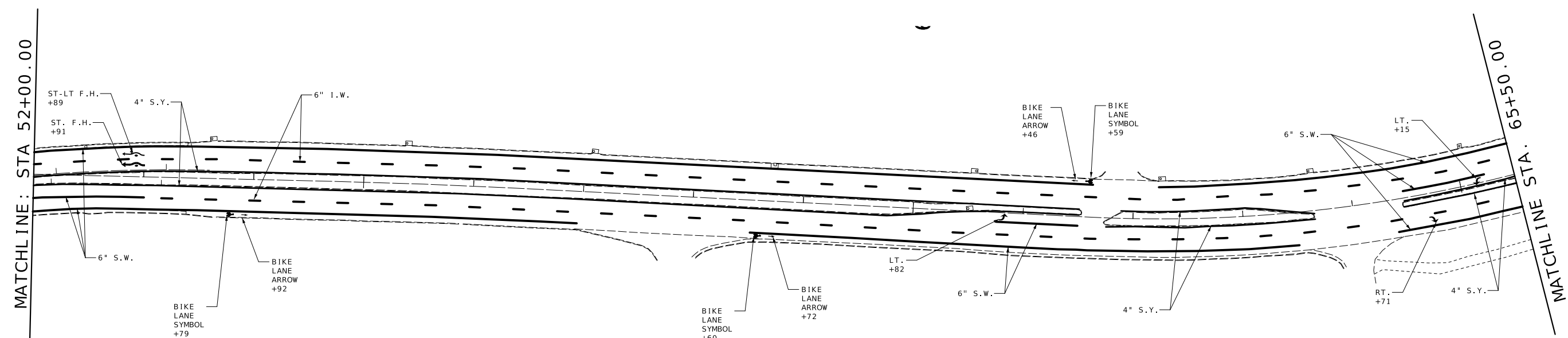
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



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

PAVEMENT MARKING
SHEET 2 OF 11

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

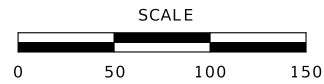
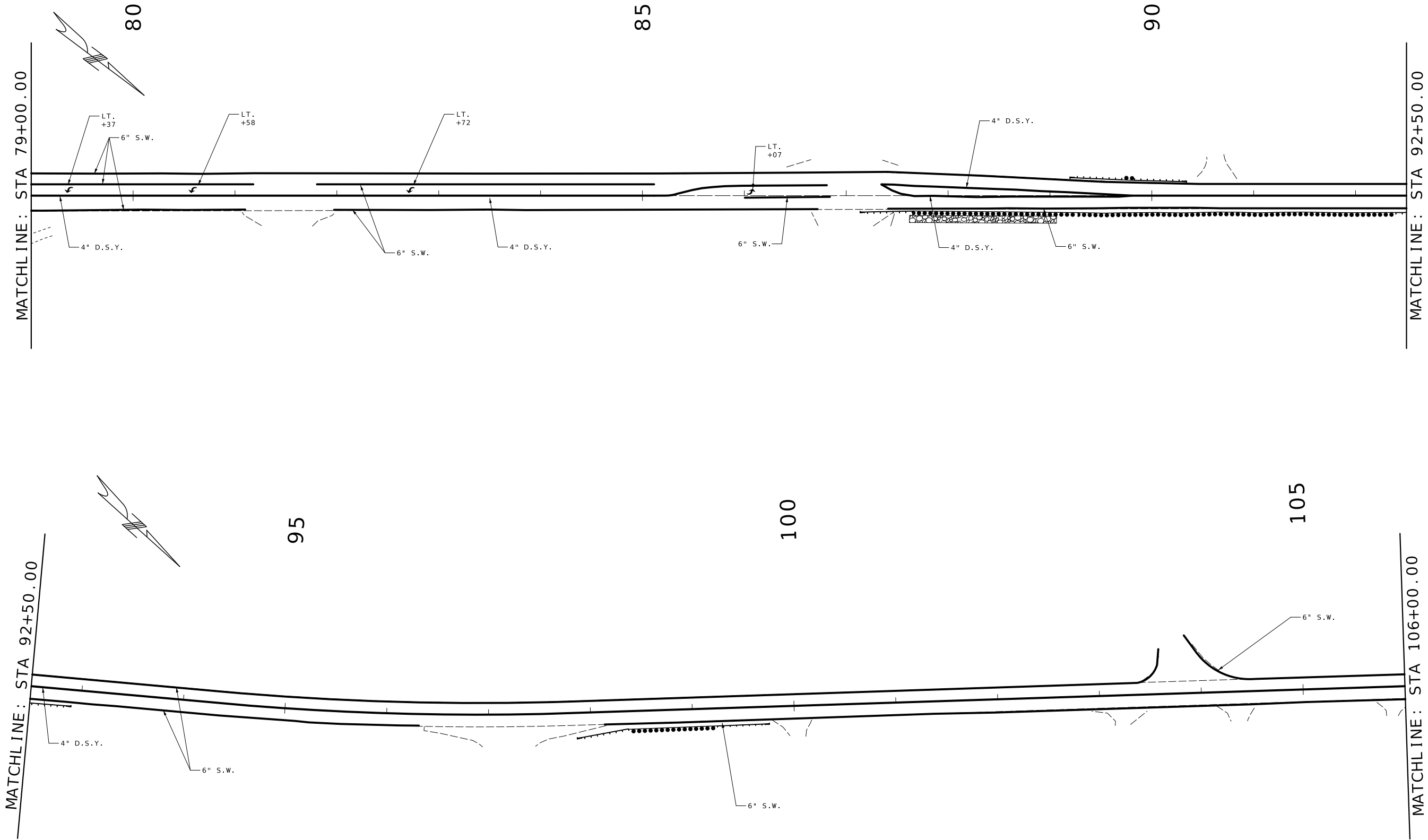
PAVEMENT MARKING
SHEET 3 OF 11

DATE PREPARED	
8/9/2024	
ROUTE	STATE
109	MO
DISTRICT	SHEET NO.
SL	79
COUNTY	
ST. LOUIS	
JOB NO.	
JSL0077	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

PAVEMENT MARKING LEGEND

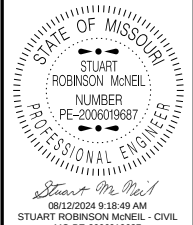
S.W. - SOLID WHITE
I.W. - INTERMITTENT WHITE
D.W. - DOTTED WHITE
S.Y. - SOLID YELLOW
D.S.Y. - DOUBLE SOLID YELLOW
M.B. - MID BLOCK
ST. - STRAIGHT ARROW

LT. - LEFT ARROW
RT. - RIGHT ARROW
ST-LT - STRAIGHT LEFT ARROW
ST. F.H. - STRAIGHT FISH HOOK ARROW
ST-LT F.H. - STRAIGHT LEFT FISH HOOK ARROW



PAVEMENT MARKING LEGEND

- S.W. - SOLID WHITE
- I.W. - INTERMITTENT WHITE
- D.W. - DOTTED WHITE
- S.Y. - SOLID YELLOW
- D.S.Y. - DOUBLE SOILD YELLOW
- LT - LEFT ARROW



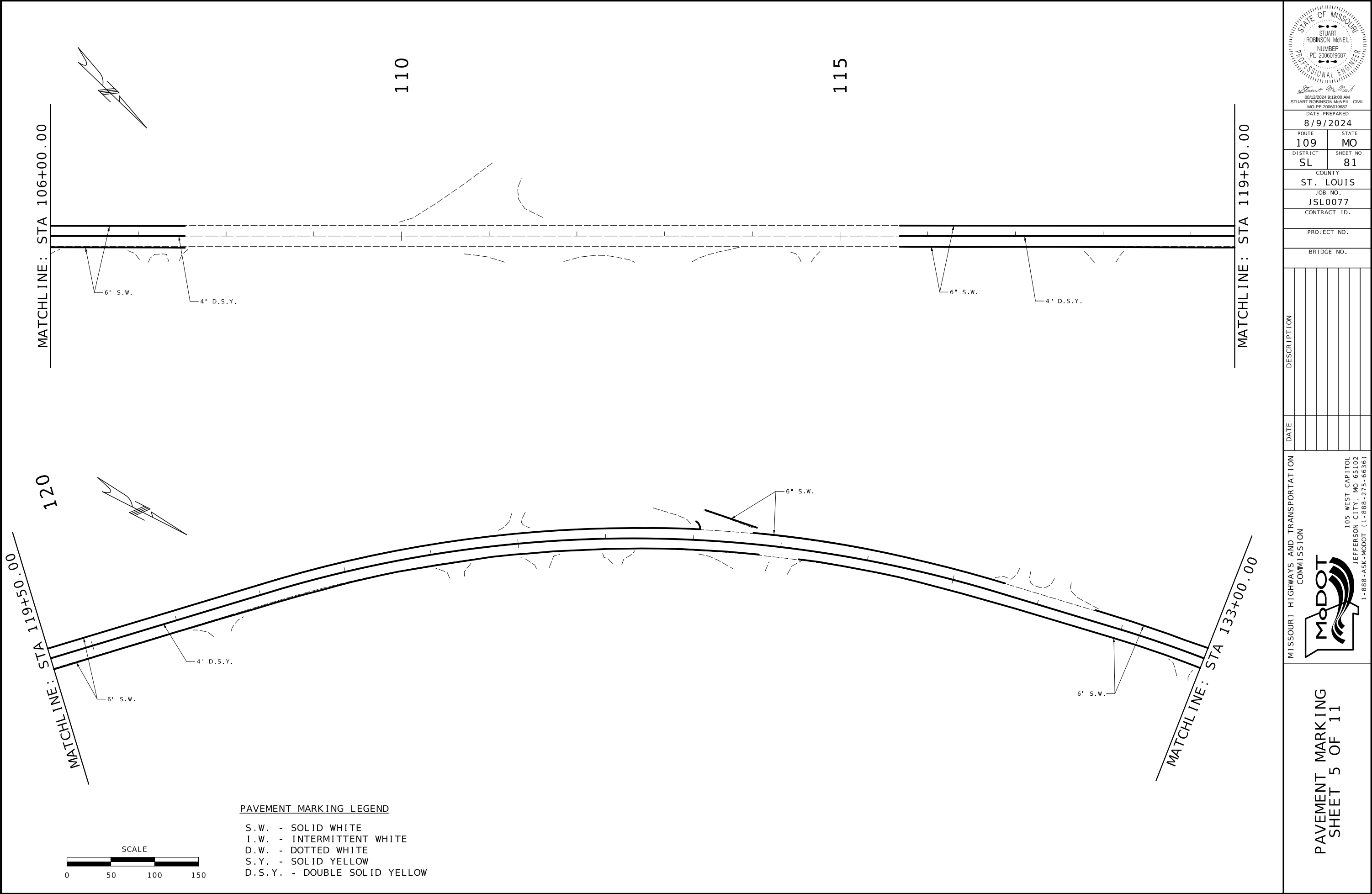
DATE PREPARED 8/9/2024	
ROUTE 109	STATE MO
DISTRICT SL	SHEET NO. 80
COUNTY ST. LOUIS	
JOB NO. JSL0077	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

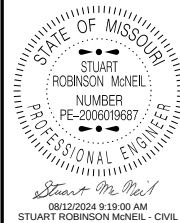


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



PAVEMENT MARKING LEGEND

- S.W. - SOLID WHITE
- I.W. - INTERMITTENT WHITE
- D.W. - DOTTED WHITE
- S.Y. - SOLID YELLOW
- D.S.Y. - DOUBLE SOLID YELLOW



DATE PREPARED 8/9/2024	
ROUTE 109	STATE MO
DISTRICT SL	SHEET NO. 81
COUNTY ST. LOUIS	
JOB NO. JSL0077	
CONTRACT ID.	

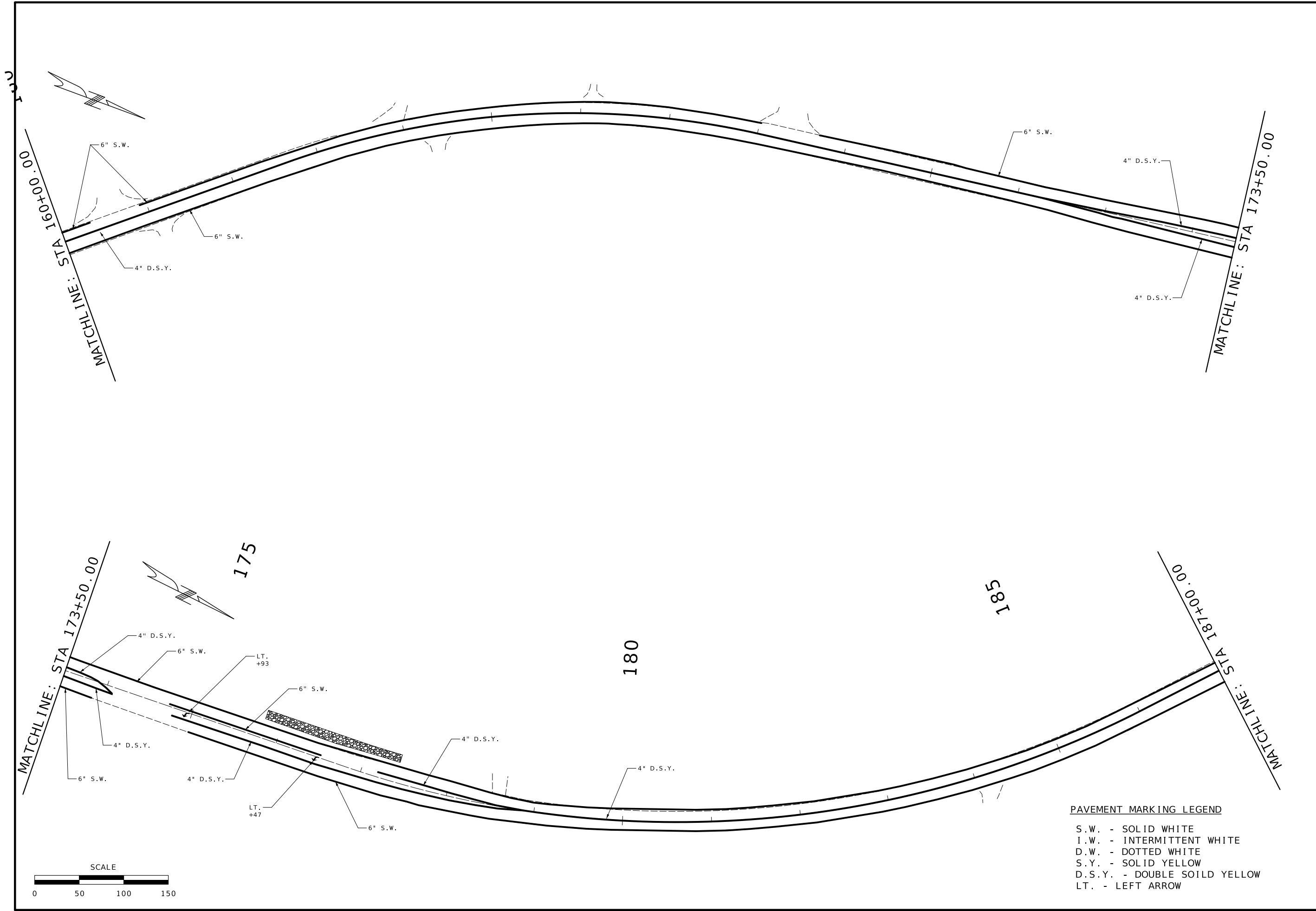
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)



- PAVEMENT MARKING LEGEND
- S.W. - SOLID WHITE
 - I.W. - INTERMITTENT WHITE
 - D.W. - DOTTED WHITE
 - S.Y. - SOLID YELLOW
 - D.S.Y. - DOUBLE SOILD YELLOW
 - LT. - LEFT ARROW

STATE OF MISSOURI

STUART ROBINSON MCNEIL

NUMBER

PE-2006019687

PROFESSIONAL ENGINEER

Stuart McNeil

08/12/2024 9:19:22 AM

STUART ROBINSON MCNEIL - CIVIL

MO-PE-2006019687

DATE PREPARED

8/9/2024

ROUTE

109

DISTRICT

SL

STATE

MO

SHEET NO.

83

COUNTY

ST. LOUIS

JOB NO.

JSL0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

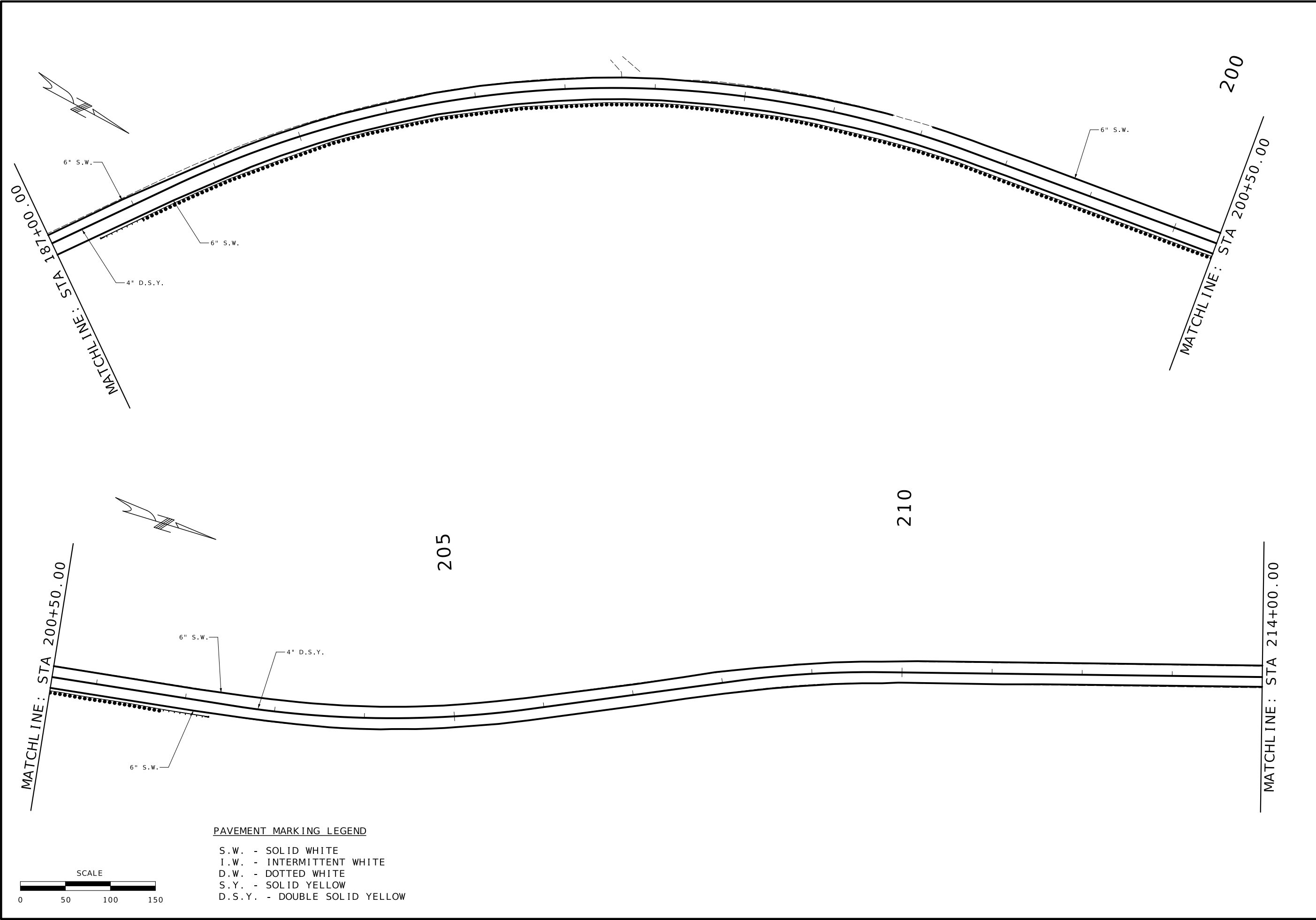
MoDOT

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

PAVEMENT MARKING SHEET 7 OF 11



STATE OF MISSOURI

STUART ROBINSON McNEIL

NUMBER PE-2006019687

PROFESSIONAL ENGINEER

08/12/2024 9:19:30 AM

STUART ROBINSON McNEIL - CIVIL

MO-PE-2006019687

DATE PREPARED
8/9/2024

ROUTE
109

DISTRICT
SL

STATE
MO

SHEET NO.
84

COUNTY
ST. LOUIS

JOB NO.
JSL077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

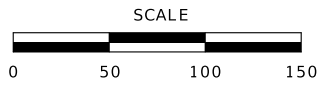
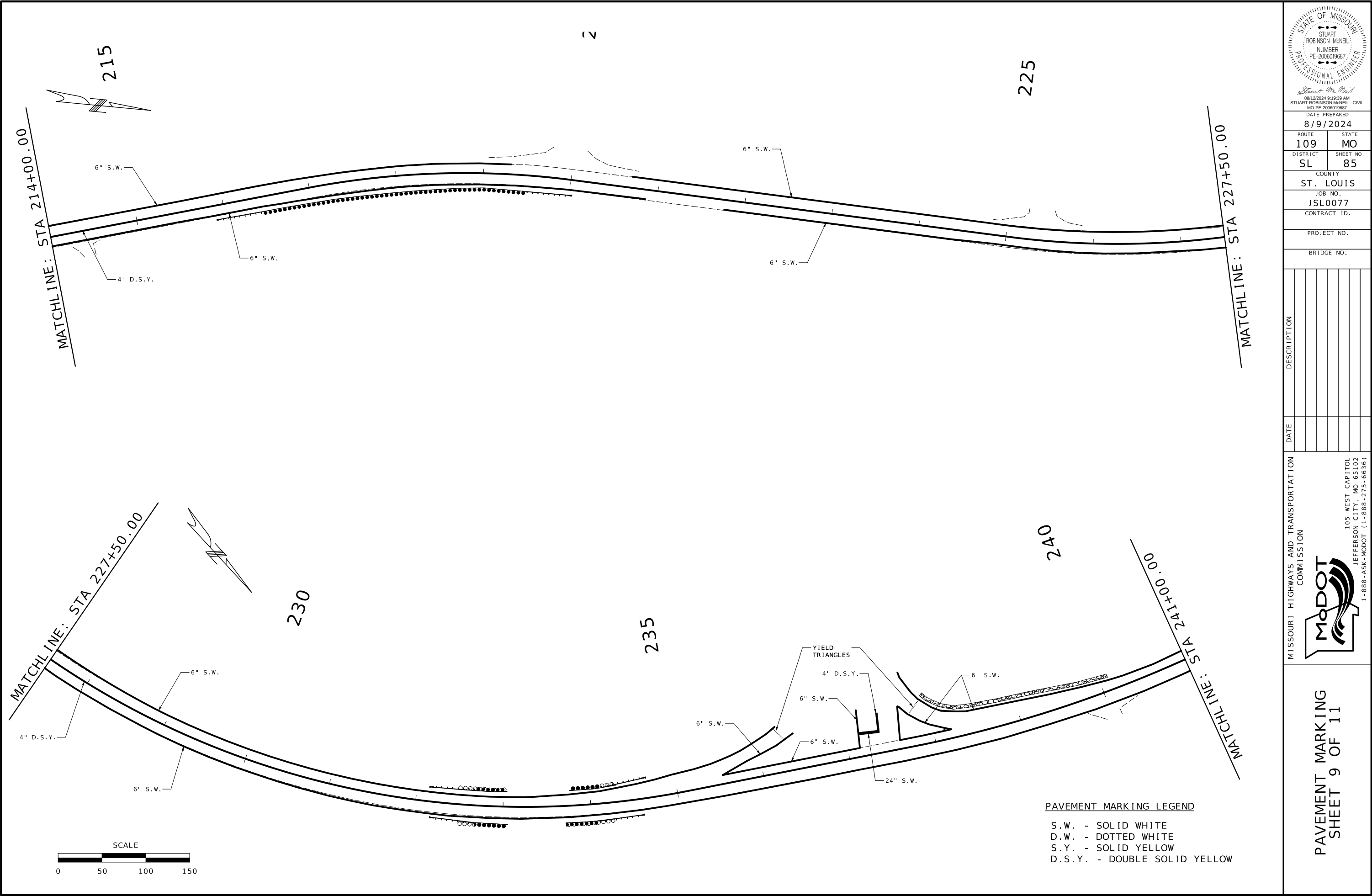
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

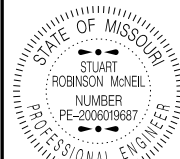
MoDOT

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

PAVEMENT MARKING
SHEET 8 OF 11



PAVEMENT MARKING LEGEND
S.W. - SOLID WHITE
D.W. - DOTTED WHITE
S.Y. - SOLID YELLOW
D.S.Y. - DOUBLE SOLID YELLOW



STUART ROBINSON MCNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/9/2024

ROUTE 109 STATE MO

DISTRICT SL SHEET NO. 85

COUNTY
ST. LOUIS

JOB NO.
JSL0077

CONTRACT ID.

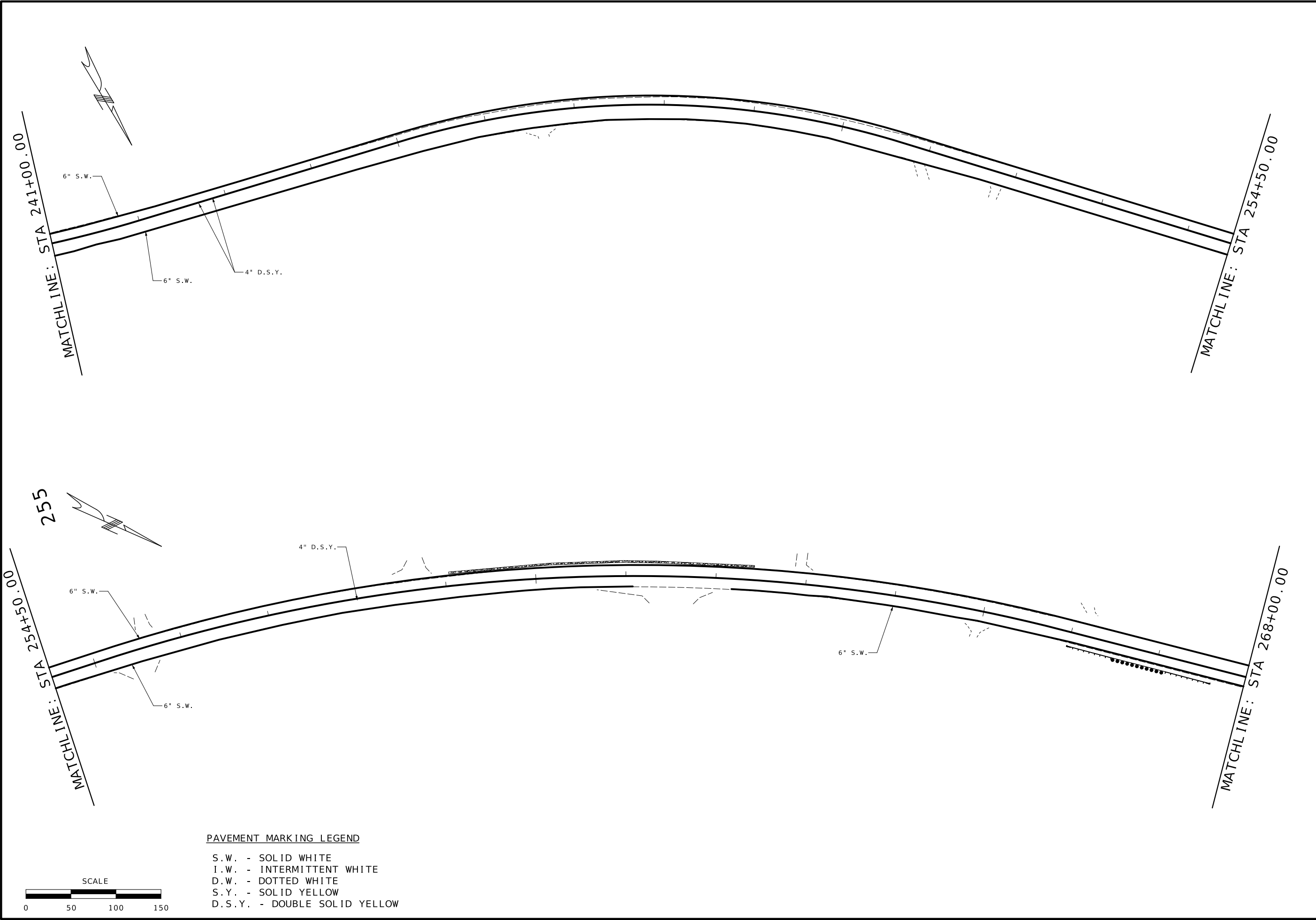
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

PAVEMENT MARKING
SHEET 9 OF 11



STATE OF MISSOURI

STUART ROBINSON MCNEIL

NUMBER
PE-2006019687

PROFESSIONAL ENGINEER

08/12/2024 9:19:51 AM

STUART ROBINSON MCNEIL - CIVIL

MO-PE-2006019687

DATE PREPARED
8/9/2024

ROUTE
109

DISTRICT
SL

STATE
MO

SHEET NO.
86

COUNTY
ST. LOUIS

JOB NO.
JSL0077

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

PAVEMENT MARKING
SHEET 10 OF 11

PAVEMENT MARKING
SHEET 11 OF 11

This map shows the area around Chesterfield, Wildwood, and Ellisville, Missouri. Major roads include Highway 64, Highway 109, Highway 100, and Highway 340. Landmarks such as Babler Memorial SP and Rockwoods are labeled. Numerous bus stops are marked with 'B' and 'T' symbols, many with associated numbers. The map also shows the location of the airport and the Missouri River.

CONVENTIONAL SYMBOLS (USED IN PLANS)

EXISTING	NEW

SAN 
HYD 
WV 
WM 
DI 

SIGN 

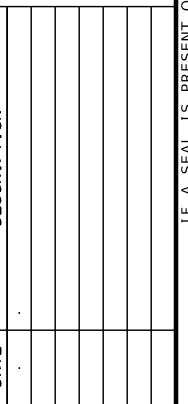

PED 

V 
X 

BM 

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. AND UPON THIS INFORMATION BEING ONE OF 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.

BEGINNING OF PROJECT	STA. 26+66.12
EMND OF PROJECT	STA. 99+75.00
APPARENT LENGTH	7.308.88 FEET
STATE LENGTH	1.38 MILES



520 MARYVILLE CENTRE DRIVE,
SUITE 100
ST. LOUIS, MISSOURI 63141
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608



IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED:

GENERAL NOTES:

CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING UTILITY LOCATES THROUGH DIG-RITE AND MODOT PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITY FACILITIES WILL BE REPAIRED TO THE OWNERS SATISFACTION. IF POTENTIAL UTILITY CONFLICTS ARE DISCOVERED DURING FIELD MARKINGS OF PROPOSED EQUIPMENT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING POWER HOOK-UP WITH THE LOCAL ELECTRICAL UTILITY.

ALL CONSTRUCTION ACTIVITY SHALL BE PERFORMED IN SUCH A MANNER TO AVOID DISRUPTION TO MAINLINE TRAFFIC, AND PROPER TRAFFIC CONTROL SHALL BE APPLIED MEETING MINIMUM MUTCD REQUIREMENTS.

ALL SIGNAL EQUIPMENT AND DEVICES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL COORDINATE DEVICE HOOK-UP WITH THE MANUFACTURER.

POWDER COATING GUARDRAIL *							
PLAN SHEET NO.	LOCATION					LENGTH	REMARKS
	ROADWAY/ DIRECTION	START STATION	END STATION	START OFFSET	END OFFSET	(FT)	
3	MO 109 - SB	29+30	31+62	60' RT	35' RT	229	
3	MO 109 - NB	31+25	34+09	33' LT	36' LT	279	
3	MO 109 - SB	43+54	44+43	36' RT	36' RT	86	
3	MO 109 - NB	48+03	49+45	39' LT	185' LT	261	
3	MO 109 - SB	48+59	49+49	21' RT	36' RT	94	
5	MO 109 - SB	87+13.5	92+91	17' RT	16' RT	572	
5	MO 109 - NB	89+20	90+34	20' LT	14' LT	110	
5	MO 109 - SB	97+86	99+75	25' RT	17 RT	175	
TOTAL						1806	
PAY TOTAL						1810	

* ALL POSTS, GUARDRAIL, END TERMINAL, MGS, END ANCHOR, AND HARDWARE TO BE POWDER COATED BLACK.
THIS WORK SHALL BE INCIDENTAL TO THE PAY ITEM "POWDER COATING GUARDRAIL".

POWDER COATING SIGNAL EQUIPMENT									
PLAN SHEET NO.	ROADWAY	CROSS STREET	TYPE CL POST W/ 25' MAST ARM	TYPE BL POST W/ 45' (LEFT ARM) AND 55' (RIGHT ARM)	TYPE CL POST W/ 35' MAST ARM	TYPE CL POST W/ 45' MAST ARM	8' PEDESTAL POST	CONTROLLER CABINET ENCLOSURE	PAD MOUNT POWER SUPPLY
			(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)
6	109	CLAYTON	1		2	1	2	1	1
7	109	SHEPARD	1	1	1	0	3	1	1
TOTAL			2	1	3	1	5	2	2
PAY TOTAL			2	1	3	1	5	2	2

ILLUMINATED STREET NAME SIGNS (LED)							
PLAN SHEET NO.	ROADWAY	CROSS STREET	ILLUMINATED STREET NAME SIGNS (LED)				REMARKS
			(EACH)	SIZE (IN).	AREA (SF)	TOTAL SIGN AREA (SF)	
6	109	CLAYTON (L)	1	20" X 84"	0.168	0.168	
6	109	CLAYTON (R)	1	20" X 84"	0.168	0.168	
6	CLAYTON	109	2	20" X 96"	0.192	0.384	
7	109	SHEPARD	2	20" X 84"	0.168	0.336	
7	SHEPARD	109	2	20" X 84"	0.168	0.336	
TOTAL			8				
PAY TOTAL			8				

CONDUIT AND CABLE QUANTITIES						
PLAN SHEET NO.	ROADWAY	CROSS STREET	CONDUIT		CABLE*	
			RIGID 2" TRENCH	GALV. 2" TRENCH**	2C#12 (LED)	1C#8 (POWER) **
			(LF)	(LF)	(LF)	(LF)
6	109	CLAYTON	51	13	677	144
7	SHEPARD	109	43	13	731	150
TOTAL			94	26	1408	294
PAY TOTAL			100		1410	

* QUANTITY INCLUDES 5% FOR SNAKING
** 2" GALVANIZED CONDUIT WITH 3-1C#8 POWER FROM POWER SUPPLY TO POWER SOURCE INCIDENTAL TO PAY ITEM PAD MOUNTED COMBINATION 120/240V LED STREET NAME POWER SUPPLY (FOR INFORMATION ONLY)

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PAD MOUNTED COMBINATION 120/240V LED STREET NAME SIGN POWER SUPPLY*						
PLAN SHEET NO.	LOCATION			PAD MOUNTED 120/240V LED STREET NAME SIGN		REMARKS
	APPROACH	STATION	OFFSET	(EACH)		
6	MO 109/CLAYTON	72+05	83' RT	1		
7	MO 109/ SHEPARD	78+44	51' RT	1		
TOTAL				2		
PAY TOTAL				2		

* CABINET HOUSING SHALL BE POWDER COATED BLACK.

ALL CONSTRUCTION PAY ITEMS AS PART OF THESE PLANS SHALL BE CONSIDERED NON-PARTICIPATING TO THE MODOT SL0077 CONTRACT.



DATE PREPARED 8/8/2024	
ROUTE 109	STATE MO
DISTRICT SL	SHEET NO. 2
COUNTY ST LOUIS	
JOB NO. SL0077	
CONTRACT ID.	
PROJECT NO. 2402806	
BRIDGE NO.	

DESCRIPTION							
DATE							



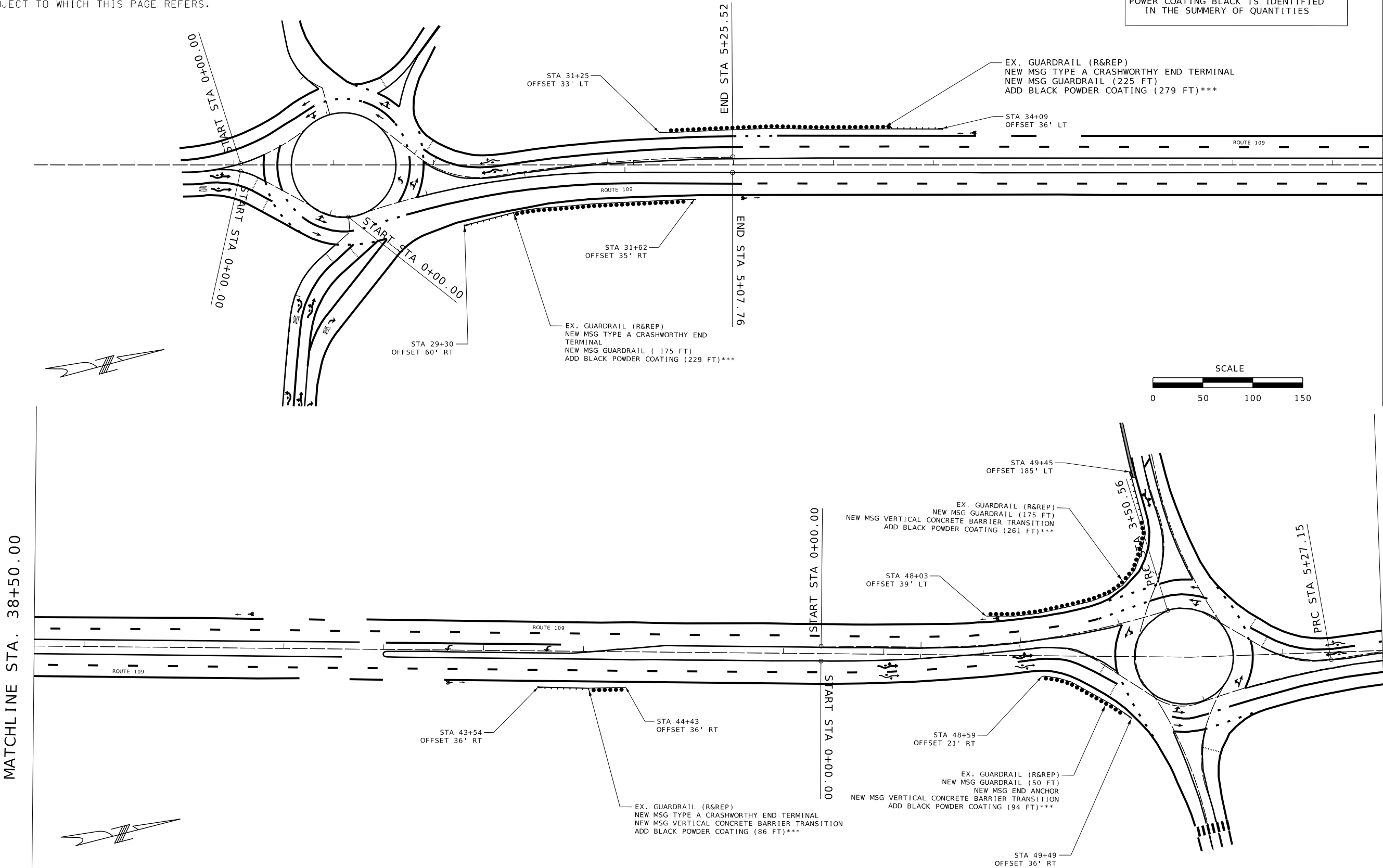
HR GREEN, INC.
520 MARYVILLE CENTRE DRIVE,
SUITE 100
ST. LOUIS, MISSOURI 63141
PHONE: (636) 519-0990
CORPORATE LICENSE #2002006608



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*** ALL GUARDRAIL SHALL BE
FURNISHED AND INSTALLED PER MoDOT
SL0077 CONTRACT. A SEPARATE NON-
PARTICIPATING PAY ITEM FOR
GUARDRAIL, POSTS, AND HARDWARE
POWER COATING BLACK IS IDENTIFIED
IN THE SUMMERY OF QUANTITIES



GUARDRAIL ENHANCEMENT
SHEET 1 OF 3

MATCHLINE STA. 38+50.00

MATCHLINE STA. 52+00.00



DATE PREPARED 8/8/2024	
ROUTE 109	STATE MO
DISTRICT SL	SHEET NO. 3
COUNTY ST LOUIS	
JOB NO. SL00777	
CONTRACT ID.	
PROJECT NO. 2402806	
BRIDGE NO.	

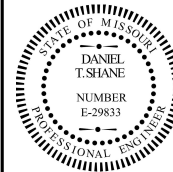
DATE	DESCRIPTION



HR GREEN, INC.
520 MARYVILLE CENTRE DRIVE,
SUITE 100
ST. LOUIS, MISSOURI 63141
PHONE: (636) 519,0990
CORPORATE LICENSE #2002006608



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DATE PREPARED
8/8/2024

ROUTE 109	STATE MO
--------------	-------------

DISTRICT	SHEET NO
SL	4

COUNTY
ST LOUIS

JOB NO.
SL00777

CONTRACT ID.

PROJECT NO.
2402806

BRIDGE NO.

[illegible]

WILDWOOD

HR GREEN, INC.
520 MARYVILLE CENTRE DRIVE,
SUITE 100
ST. LOUIS, MISSOURI 63141
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608



GUARDRAIL ENHANCEMENT
SHEET 2 OF 3

\\hrgreen.com\hrg\Data\2024\2402806\CAD\Roadway\Plan Sheets\XXX PlanSheets 01OF01 2402806.dgn 9:24:23 AM 8/8/2024

MATCHLINE STA. 79+00.00

MATCHLINE STA. 92+50.00

MATCHLINE STA. 92+50.00

MATCHLINE STA. 106+00.00

*** ALL GUARDRAIL SHALL BE
FURNISHED AND INSTALLED PER MoDOT
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GUARDRAIL, POSTS, AND HARDWARE
POWER COATING BLACK IS IDENTIFIED
IN THE SUMMERY OF QUANTITIES

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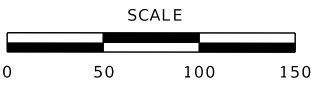
EX. GUARDRAIL (R&REP)
NEW (2) TYPE A CRASHWORTHY END TERMINAL
NEW MSG GUARDRAIL 8 FT POSTS
ADD BLACK POWDER COATING (110 FT)***

STA 89+20
OFFSET 20' LT

STA 90+34
OFFSET 14' LT

STA 87+13.50
OFFSET 17' RT

EX. GUARDRAIL (R&REP)
NEW (2) TYPE A CRASHWORTHY END TERMINAL
NEW MSG GUARDRAIL 8 FT POSTS
ADD BLACK POWDER COATING (572 FT)***

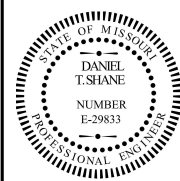


EX. GUARDRAIL (R&REP)
NEW (2) TYPE A CRASHWORTHY END TERMINAL
NEW MSG GUARDRAIL 8 FT POSTS
ADD BLACK POWDER COATING (185 FT)***

STA 97+86.00
OFFSET 25' RT

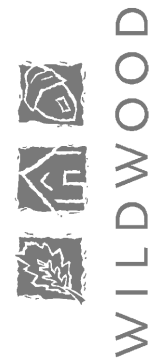
STA 99+75.00
OFFSET 17' RT

GUARDRAIL ENHANCEMENT
SHEET 3 OF 3



DATE PREPARED 8/8/2024	
ROUTE 109	STATE MO
DISTRICT SL	SHEET NO. 5
COUNTY ST LOUIS	
JOB NO. SL00777	
CONTRACT ID.	
PROJECT NO. 2402806	
BRIDGE NO.	

DATE	DESCRIPTION

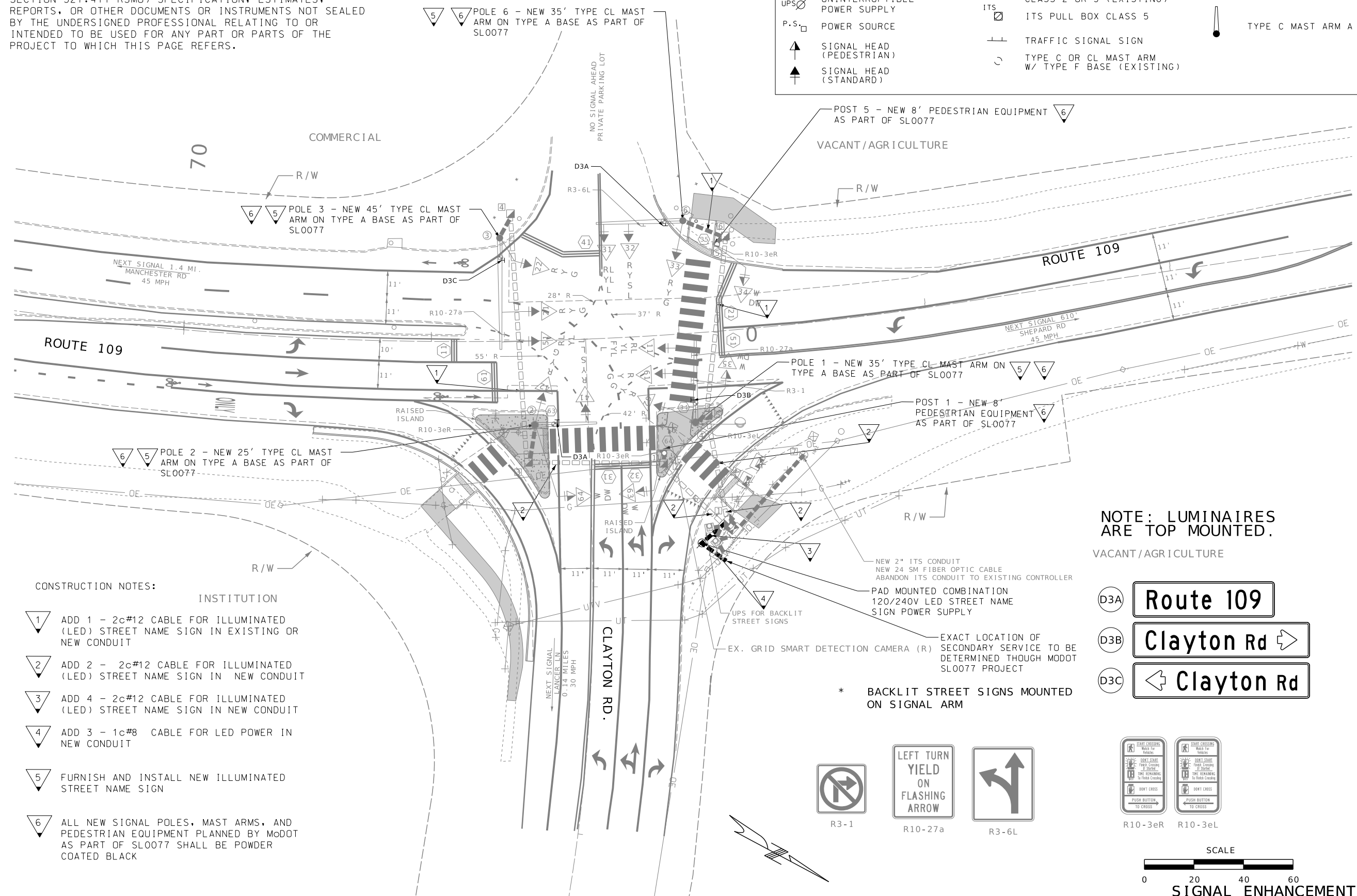


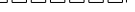
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520 MARYVILLE CENTRE DRIVE,
SUITE 100
ST. LOUIS, MISSOURI 63141
PHONE: (636) 519-0990
CORPORATE LICENSE #2002006608



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TRAFFIC SIGNAL LEGEND			
	CONTROLLER		PREFORMED PULL BOX TYPE 1
	CONTROLLER (EXISTING)		PUSH BUTTON DETECTOR
	POWER SUPPLY (TYPE II)		PREFORMED PULL BOX CLASS 2 OR 3 (EXISTING)
UPS 	UNINTERRUPTIBLE POWER SUPPLY		ITS PULL BOX CLASS 5
P.S. 	POWER SOURCE		TRAFFIC SIGNAL SIGN
	SIGNAL HEAD (PEDESTRIAN)		TYPE C OR CL MAST ARM W/ TYPE F BASE (EXISTING)
	SIGNAL HEAD (STANDARD)		CONDUIT PUSHED
			CONDUIT (EXISTING)
			CONDUIT TRENCHED
			TYPE C MAST ARM A BASE

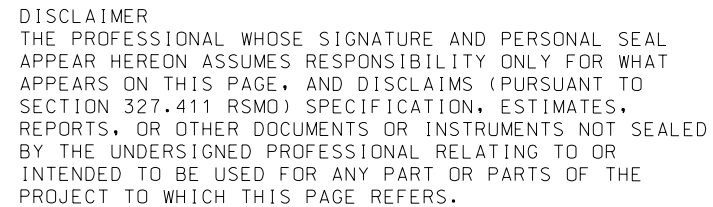
	
DATE PREPARED	
8/8/2024	
ROUTE	STATE
109	MO
DISTRICT	SHEET NO.
SL	6
COUNTY	
ST LOUIS	
JOB NO.	
SL00777	
CONTRACT ID.	
PROJECT NO.	
2402806	
BRIDGE NO.	

[illegible]

WILDWOOD

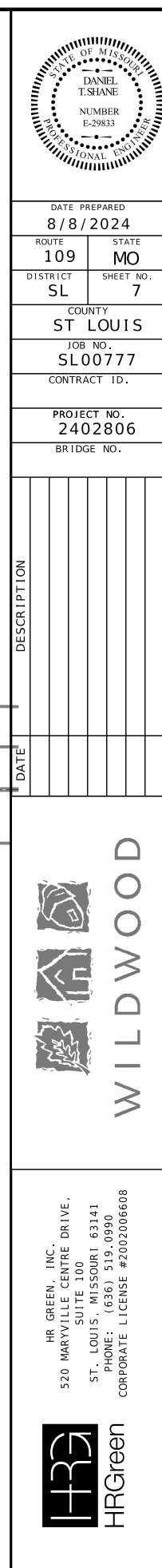
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520 MARYVILLE CENTRE DRIVE,
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ST. LOUIS, MISSOURI 63141
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

[illegible]



NOTE: SEE WILDWOOD ENHANCEMENT PLAN SHEETS
FOR LOCATION OF LIGHTING UPS.

- 1 ADD 1 - 2c#12 CABLE FOR ILLUMINATED (LED) STREET NAME SIGN IN EXISTING OR NEW CONDUIT
- 2 ADD 2 - 2c#12 CABLE FOR ILLUMINATED (LED) STREET NAME SIGN IN NEW CONDUIT
- 3 ADD 4 - 2c#12 CABLE FOR ILLUMINATED (LED) STREET NAME SIGN IN NEW CONDUIT
- 4 ADD 3 - 1c#8 CABLE FOR LED POWER IN NEW CONDUIT
- 5 FURNISH AND INSTALL NEW ILLUMINATED STREET NAME SIGN
- 6 ALL NEW SIGNAL POLES, MAST ARMS, AND PEDSTRIAN EQUIPMENT PLANNED BY MoDOT AS PART OF SLO077 SHALL BE POWDER COATED BLACK



DESIGN DESIGNATION

A.A.D.T. - 2024 = 2,014
A.A.D.T. - 2044 = 2,457
D.H.V. = 10%
T = 8%
V = 50 M.P.H.
D = 50%

FUNCTIONAL CLASSIFICATION - MINOR COLLECTOR

NO NEW RIGHT OF WAY
IS REQUIRED FOR
THIS PROJECT

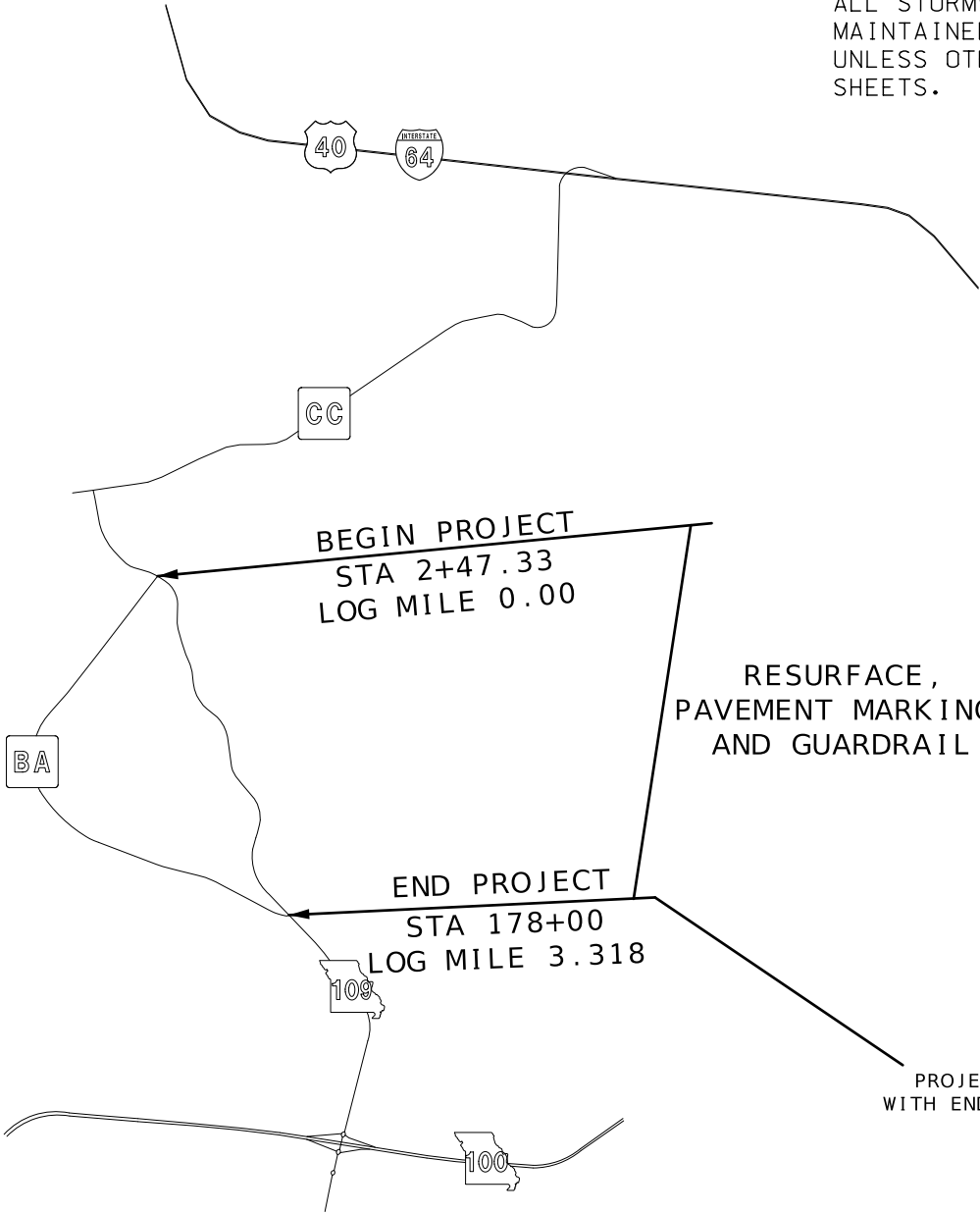
CONVENTIONAL SYMBOLS
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
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		
FIRE HYDRANT		
WATER VALVE		
WATER METER		
DROP INLET		
DITCH BLOCK		
GROUND MOUNTED SIGN		
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL		
FENCE		
CHAIN LINK		
WOVEN WIRE		
GATE POST		
BENCHMARK		

NOTE: DASHED OR OPEN SYMBOLS INDICATE
EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY
ST. LOUIS COUNTY
RT BA

NOT TO SCALE

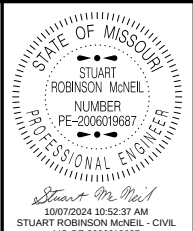


ALL STORMWATER STRUCTURES ARE OWNED,
MAINTAINED AND OPERATED BY MODOT,
UNLESS OTHERWISE STATED ON THE PLAN
SHEETS.

PROJECT END IS COORDINATED
WITH END OF ROUNDABOUT PROJECT:
STP-5602(625)

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (1 SHEET)----	2
QUANTITIES (QU) (4 SHEETS)-----	3
PLAN-PROFILE (PP)-----	4-12
SPECIAL SHEETS (SS)-----	13
TRAFFIC CONTROL SHEETS (TC)-----	14-18
PVMT MARKING & SIGNING (PM & SN)---	19-27
SIGNING QUANTITIES (SN)-----	28-29



DATE PREPARED 10/7/2024	
ROUTE BA	STATE MO
DISTRICT SL	SHEET NO. 01
COUNTY ST. LOUIS	
JOB NO. JSL0080	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

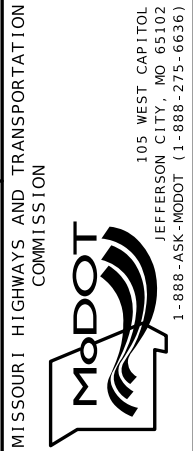
LENGTH OF PROJECT

BEGINNING OF PROJECT	STA. 2 + 47.33
END OF PROJECT	STA. 178 + 00
APPARENT LENGTH	17,552.7 FEET

EQUATIONS AND EXCEPTIONS:
BRIDGE EXCEPTION: STA. 101+16.5 TO STA. 102+10
-93.5 FEET

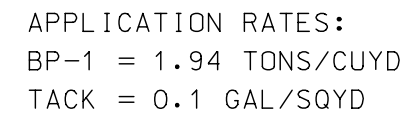
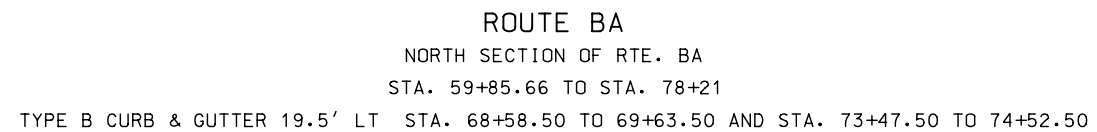
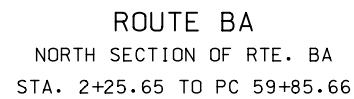
TOTAL CORRECTIONS	-93.5 FEET
NET LENGTH OF PROJECT	17,459.2 FEET
STATE LENGTH	3.31 MILES

FOR INFORMATION ONLY
ESTIMATED DISTURBED ACRES 0.1 ACRES



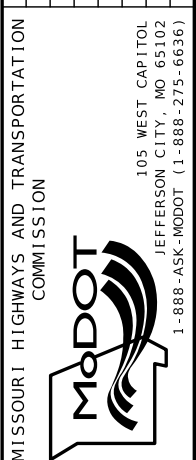
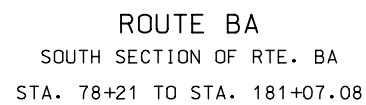
TITLE SHEET

(A) MILL/FILL 2" BP-1 w/ PG64-22



NOTE:
THE PROPOSED CROSS SLOPE SHALL
BE 2% OR MORE AT ALL LOCATIONS.
(NO DIRECT PAY FOR ADDING CROWN)

NOT TO SCALE



TYPICAL SECTIONS

REMOVAL OF IMPROVEMENTS								
PLAN SHEET NO.	ROAD	STA	STA	LOC				
					DESCRIPTION	QTY	UNIT	REMARKS
9	BA	100+26	103+19	RT	GUARDRAIL	162	LF	
9	BA	100+28	103+16	LT	GUARDRAIL	155	LF	
10	BA	135+11	137+81	RT	GUARDRAIL	267	LF	
19	BA	2+68	8+98	VAR.	SIGNS	5	EA	
19	BA	2+68		LT	SIGN POST	1	EA	
19	BA	3+57		RT	ADOPT A HWY SIGN AND POST	1	EA	MAY BE REMOVED AUG 2025
20	BA	29+17		LT	ADOPT A HWY SIGN AND POST	1	EA	MAY BE REMOVED AUG 2025
23	BA	76+58		LT	SIGN	1	EA	
23	BA	96+32		RT	ADOPT A HWY SIGN AND POST	1	EA	
24	BA	110+19		RT	SIGN	1	EA	
24	BA	109+63	112+27	VAR.	ADOPT A HWY SIGN AND POST	2	EA	
25	BA	114+21		RT	SIGN	1	EA	
26	BA	157+35	157+39	VAR.	ADOPT A HWY SIGN AND POST	2	EA	
26	BA	162+86		RT	SIGN	1	EA	
27	BA	170+40	174+7	VAR.	SIGNS	3	EA	
27	BA	179+61		LT	ADOPT A HWY SIGN AND POST	1	EA	
						PAY TOTAL		1 LUMP SUM

MOBILIZATION - 1 LUMP SUM

CONTRACTOR FURNISHED SURVEY & STAKING - 1 LUMP SUM

GRASS SEEDING - 0.1 ACRE

PAVEMENT MARKINGS														
PLAN SHEET NO.	STA	STA	ROADWAY										REMARKS	
				WATERBORNE PAVEMENT MARKING PAINT TYPE P BEADS					PREFORMED THERMOPLASTIC PAVEMENT MARKING					
				4" S.Y. L.F.	4" I.Y. L.F.	4" S.W. L.F.	4" I.W. L.F.	12" S.Y.	12" YIELD LINE TRIANGLES EACH	24" S.W. STOP BAR L.F.	LT ARROW EACH	RT ARROW EACH		ST ARROW EACH
19	0+00	25+00	I-44	2896.4	25.0	3250.5			30	22				
20	25+00	51+00	I-44	997.3	251.6	2003.8								
20	51+00	77+00	I-44	1227.8	349.7	2798.8								
21	77+00	105+00	I-44		300.2	2401.9								
22	105+00	131+00	I-44	1279.5	267.3	2748.4								
22	114+06	131+00	FOX CR	2168.4		2168.4								
23	131+00	157+00	I-44	2204.0		2312.9					1			
23	131+00	157+00	FOX CR	2600.0		2599.0								
24	157+00	170+00	I-44	2162.0	112.5	2679.0								
25	157+00	170+00	FOX CR	1496.0	326.5	2804.0								
25	170+00	183+25	I-44/RMP	4329.0	12.5	2792.0			26	1	1	1		
26	183+25	197+75	I-44	2729.0	40.0	2804.0								
26	185+00	198+43.46	5TH ST	1213.0	319.3	2804.0								
27	197+75	211+81.53	I-44	1256.0	14.3	1259.0								
SUB TOTALS				26558.4	2018.9	35425.7	0.0	0.0	30.0	48.0	1.0	2.0	1.0	
PAY TOTALS				28577		35426		0.0	30	48	3		1	

STATE OF MISSOURI

STUART ROBINSON McNEIL

NUMBER
PE-2006019687

PROFESSIONAL ENGINEER

08/12/2024 9:33:46 AM

STUART ROBINSON McNEIL - CIVIL

MO-PE-2006019687

DATE PREPARED

8/9/2024

ROUTE

BA

STATE

MO

DISTRICT

SL

SHEET NO.

03

COUNTY

ST. LOUIS

JOB NO.

JSL0080

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)

SUMMARY OF QUANTITIES

EFFECTIVE: 07-01-2024																			
SIGN	SIZE	AREA	QTY	TOTAL	QTY	TOTAL	SIGN									ITEM	TOTAL		
IN.	sq.ft.	each	sq.ft.	each	sq.ft.	NUM.										NUMBER	QTY		
WARNING SIGNS								DESCRIPTION											
W01-1L	48X48	16.00						TURN (SYMBOL LEFT)								6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)	
W01-1R	48X48	16.00						TURN (SYMBOL RIGHT)								6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)	
W01-2L	48X48	16.00						CURVE (SYMBOL LEFT)								6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)	
W01-2R	48X48	16.00						CURVE (SYMBOL RIGHT)								6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)	
W01-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)								6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)	
W01-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)								6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)	
W01-4L	48X48	16.00	2	32				REVERSE CURVE (SYMBOL LEFT)								6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)	
W01-4R	48X48	16.00	2	32				REVERSE CURVE (SYMBOL RIGHT)								6122020		REPLACEMENT SAND BARREL	
W01-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)								6122030		IMPACT ATTENUATOR (RELOCATION)	
W01-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)								6123001		TRUCK MOUNTED ATTENUATOR (TMA)	
W01-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)								6161008		ADVANCED WARNING RAIL SYSTEM	
W01-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)								6161012		BUOYS (BOATS KEEP OUT)	
W01-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)								6161013		BUOYS (NO WAKE)	
W01-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)								6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)	
W01-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)								6161025	46	CHANNELIZER (TRIM LINE)	
W01-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)								6161030		TYPE III MOVEABLE BARRICADE	
W01-8	18X24	3.00						CHEVRON (SYMBOL)								6161033		DIRECTION INDICATOR BARRICADE	
W01-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)								6161040		FLASHING ARROW PANEL	
W03-1	48X48	16.00						STOP AHEAD (SYMBOL)								6161047		TYPE III OBJECT MARKER	
W03-2	48X48	16.00						YIELD AHEAD (SYMBOL)								6161055		SEQUENTIAL FLASHING WARNING LIGHT	
W03-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)								6161070		TUBULAR MARKER	
W03-4	48X48	16.00	2	32				BE PREPARED TO STOP								6161095		RADAR SPEED ADVISORY SYSTEM	
W03-5	48X48	16.00	2	32				SPEED LIMIT AHEAD								6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED	
W04-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)								6161098A	3**	CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED	
W04-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)								6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED	
W04-1aL	48X48	16.00						MERGE (LEFT)								6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM	
W04-1aR	48X48	16.00						MERGE (RIGHT)								6162002		TEMPORARY LONG-TERM RUMBLE STRIPS	
W05-1	48X48	16.00	4	64				ROAD/BRIDGE/RAMP NARROWS								6173600D		TEMPORARY TRAFFIC BARRIER	
W05-3	48X48	16.00						ONE LANE BRIDGE								6173602B		CONTRACTOR FURNISHED/RETAINED	
W05-5	48X48	16.00						NARROW LANES								6174000A		TEMPORARY TRAFFIC BARRIER	
W06-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)								6175010A		CONTRACTOR FURNISHED/COMMISSION RETAINED	
W06-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)								6176000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	
W06-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)								6177000B		RELOCATING TEMPORARY TRAFFIC BARRIER	
W07-3a	30X24	5.00	4	20				NEXT XX MILES (PLAQUE)								6208064A		TEMPORARY TRAFFIC BARRIER	
W08-1	48X48	16.00						BUMP								9029400		COMMISSION FURNISHED/RETAINED	
W08-2	48X48	16.00						DIP								9029401		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	
W08-3	48X48	16.00						PAVEMENT ENDS										COMMISSION FURNISHED/RETAINED	
W08-4	48X48	16.00						SOFT SHOULDER										TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	
W08-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)										COMMISSION FURNISHED/RETAINED	
W08-6	48X48	16.00						TRUCK CROSSING										TEMPORARY RAISED PAVEMENT MARKER	
W08-6c	48X48	16.00						TRUCK ENTRANCE										TEMPORARY TRAFFIC SIGNALS	
W08-7	36X36	9.00						LOOSE GRAVEL										TEMPORARY TRAFFIC SIGNALS AND LIGHTING	
W08-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL											
W08-9	48X48	16.00						LOW SHOULDER											
W08-11	48X48	16.00						UNEVEN LANES											
W08-12	48X48	16.00						NO CENTER LINE											
W08-15	48X48	16.00						GROOVED PAVEMENT											
W08-15P	30X24	5.00						MOTORCYCLE (PLAQUE)											
W08-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)											
W08-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)											
W08-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)											
W10-1	42RND.	9.62						RAILROAD CROSSING											
W012-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)											
W012-2	48X48	16.00						LOW CLEARANCE (SYMBOL)											
W012-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)											
W012-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)											
W012-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD											
W012-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD											
W013-1	30X30	6.25						ADVISORY SPEED (PLAQUE)											
W016-2	30X24	5.00						XXX FEET (PLAQUE)											
W016-3	30X24	5.00						X MILE (PLAQUE)											
W020-1	48X48	16.00	4	64				ROAD/BRIDGE/RAMP WORK AHEAD											
W020-2	48X48	16.00						DETOUR AHEAD											
W020-3	48X48	16.00						ROAD CLOSED AHEAD											
W020-4	48X48	16.00	2	32				ONE LANE ROAD AHEAD								616-10.05		TOTAL	
W020-5	48X48	16.00	2	32				RIGHT/CENTER/LEFT LANE CLOSED AHEAD								CONSTRUCTION SIGNS	647		
W020-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD								616-10.10		TOTAL	
W020-6a	48X48	16.00	2	32				RIGHT/CENTER/LEFT LANE CLOSED								RELOCATED SIGNS	0		
W020-7a	48X48	16.00	2	32				FLAGGER (SYMBOL)											
W021-2	36X36	9.00						FRESH OIL											
W021-5	48X48	16.00	2	32				SHOULDER WORK / SHOULDER WORK AHEAD											
W022-1	48X48	16.00						BLASTING ZONE AHEAD											
W022-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE											
W022-3	42X36	10.50						END BLASTING ZONE											
GO22-1	21X15	2.19	4	8.76				WET PAINT (ARROW PIVOTS)											

NOTE: ALL TRAFFIC CONTROL ITEMS ARE INCLUDED IN PAY ITEM 616-99.01, TEMPORARY TRAFFIC CONTROL, LUMP SUM, UNLESS NOTED OTHERWISE IN THE PLANS. THESE QUANTITIES ARE ONLY AN ESTIMATE AND ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS.

-NO DIRECT PAY WILL BE MADE FOR CONSTRUCTION SIGNS OR DEVICES

-SIGN AND DEVICE LOCATIONS WILL BE FIELD VERIFIED AND APPROVED BY THE ENGINEER

-CMS LOCATIONS TO BE DETERMINED BY THE ENGINEER

TEMPORARY TRAFFIC CONTROL PAY TOTAL = 1 LUMP SUM

* NO DIRECT PAYMENT FOR RELOCATED SIGNS

** ITEMS NOT INCLUDED IN TEMPORARY TRAFFIC CONTROL, LUMP SUM

SUMMARY OF QUANTITIES
SHEET 4 OF 4

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER
PE-2006019687
PROFESSIONAL ENGINEER
10/07/2024 10:54:57 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687
DATE PREPARED
10/7/2024
ROUTE BA STATE MO
DISTRICT SL SHEET NO. 03
COUNTY ST. LOUIS
JOB NO. JSL0080
CONTRACT ID.
PROJECT NO.
BRIDGE NO.
DESCRIPTION
DATE
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MDOT (1-888-275-6636)

STATE OF MISSOURI

STUART ROBINSON McNEIL

NUMBER

PE-2006019687

1007/2024 10:54:57 AM

STUART ROBINSON McNEIL - CIVIL

MO-PE-2006019687

DATE PREPARED

10/7/2024

ROUTE

BA

STATE

MO

DISTRICT

SL

SHEET NO.

03

COUNTY

ST. LOUIS

JOB NO.

JSL0080

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

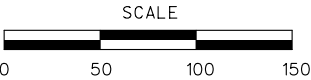
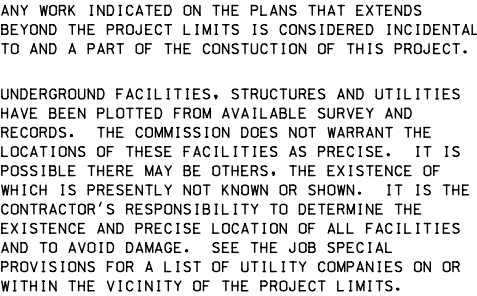
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

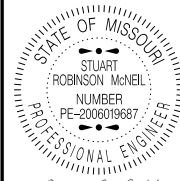
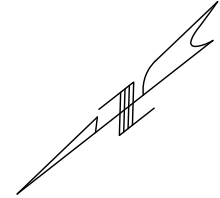
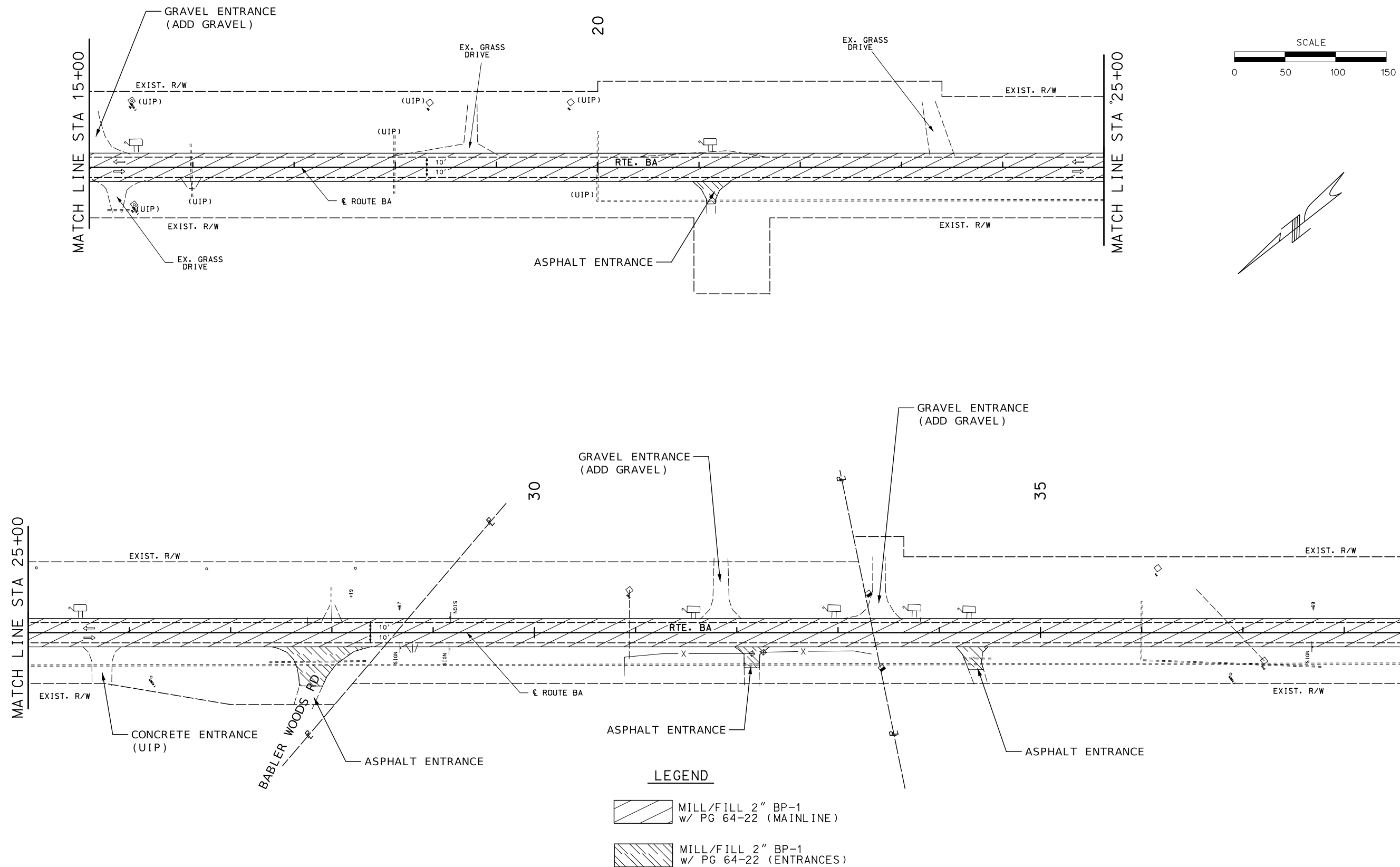
JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

SUMMARY OF QUANTITIES
(TRAFFIC CONTROL)



PLAN SHEETS



08/12/2024 9:34:32 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/8/2024

ROUTE	STATE
BA	MO

DISTRICT	SHEET NO.
SL	05

COUNTY
ST. LOUIS

JOB NO.
JSL0080

CONTRACT ID.

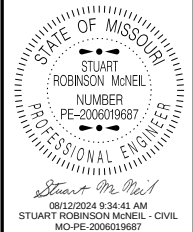
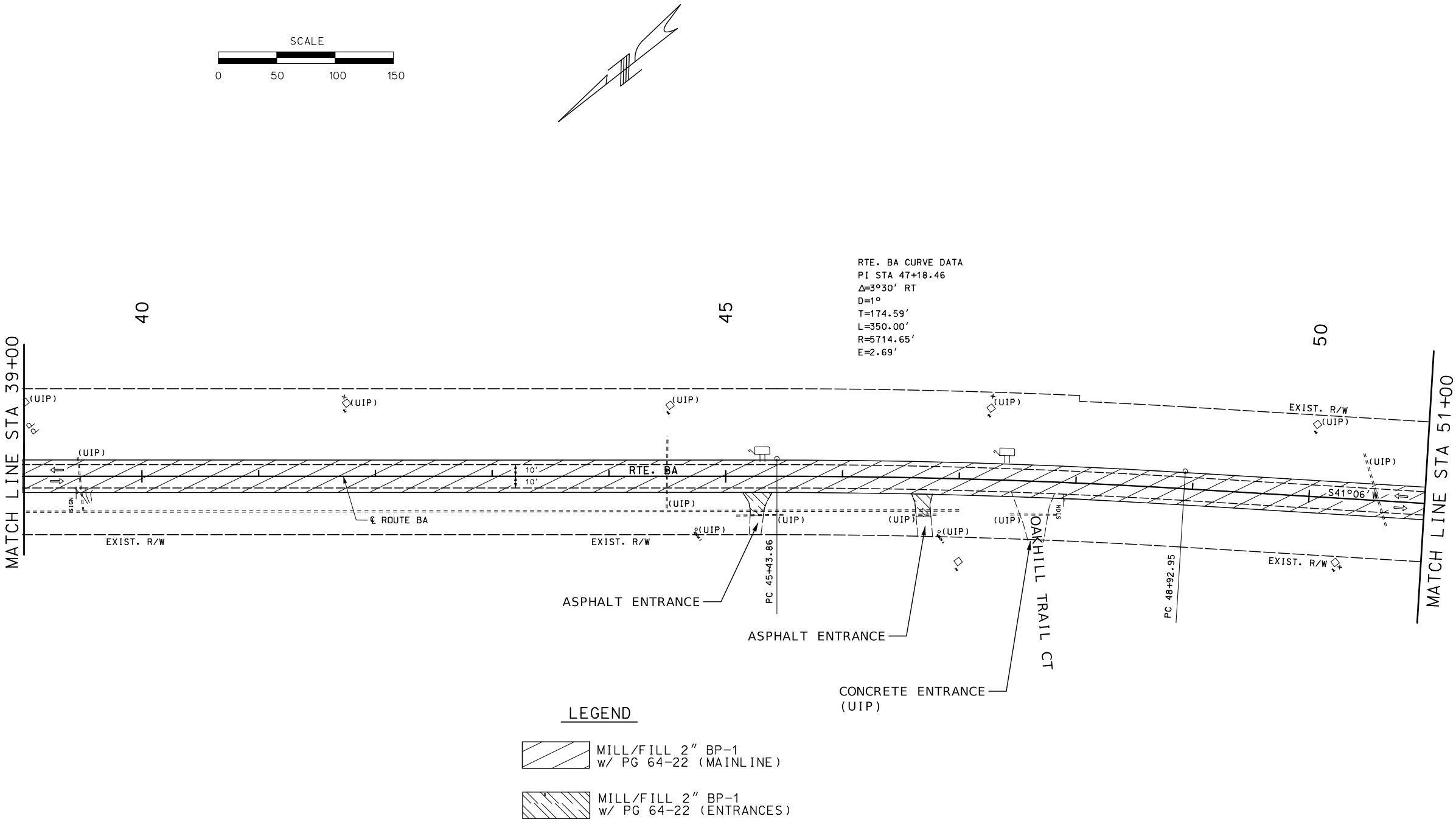
PROJECT NO.

BRIDGE NO.

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 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1.888.ASK.MODOT / 1.888.775.6626

PLAN SHEETS



DATE PREPARED
8/8/2024

ROUTE	STATE
BA	MO
DISTRICT	SHEET NO.
SL	06

COUNTY
ST. LOUIS

JOB NO.
JSL0080

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

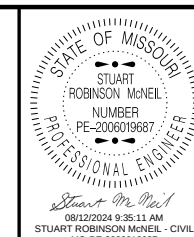
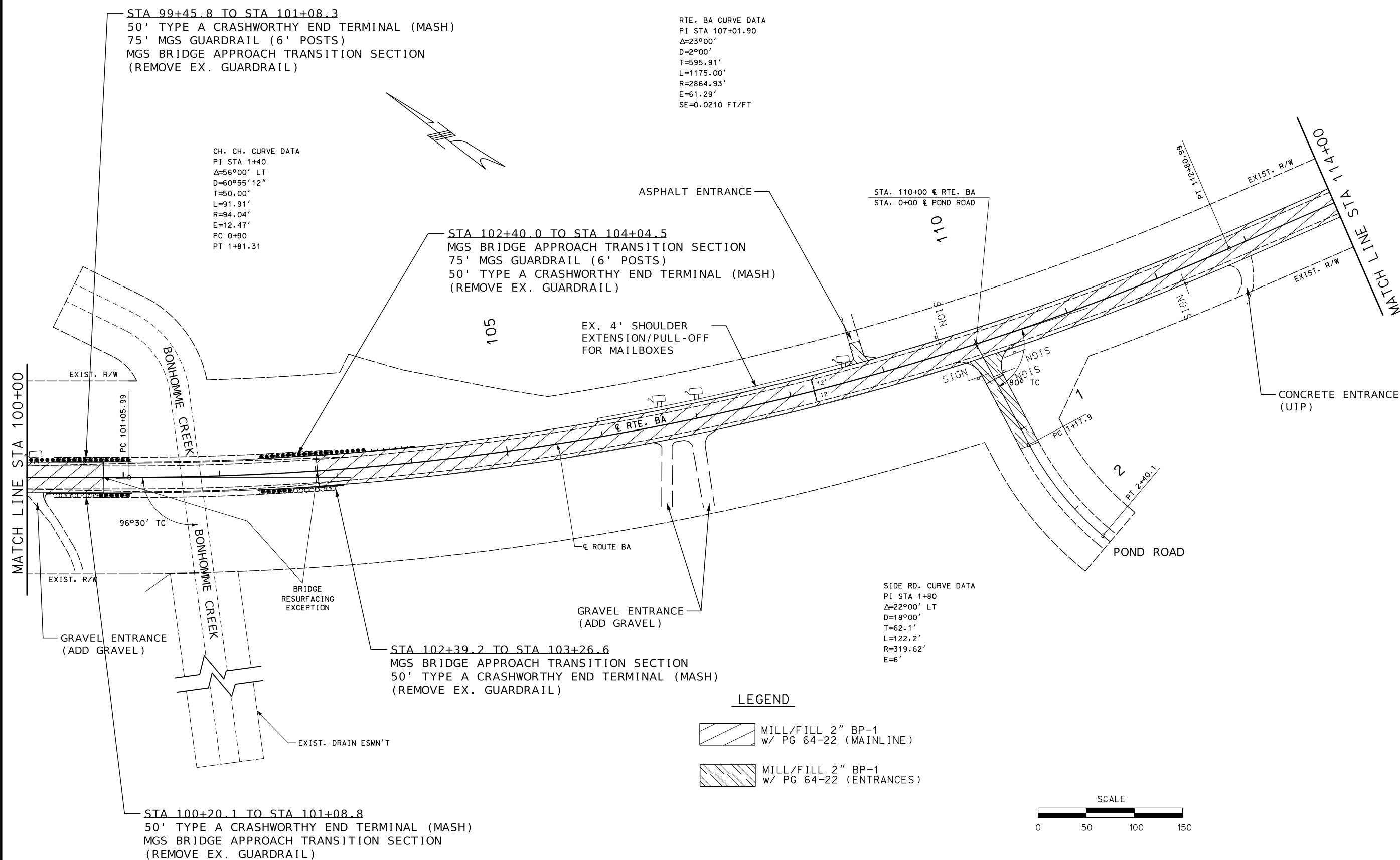
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

PLAN SHEETS



DATE PREPARED
8/8/2024

ROUTE	STATE
BA	MO

DISTRICT	SHEET NO
SL	09

COUNTY
ST. LOUIS

JOB NO.
JSL0080
CONTRACT ID

CONTRACT ID.
PROJECT NO.

BRIDGE NO.

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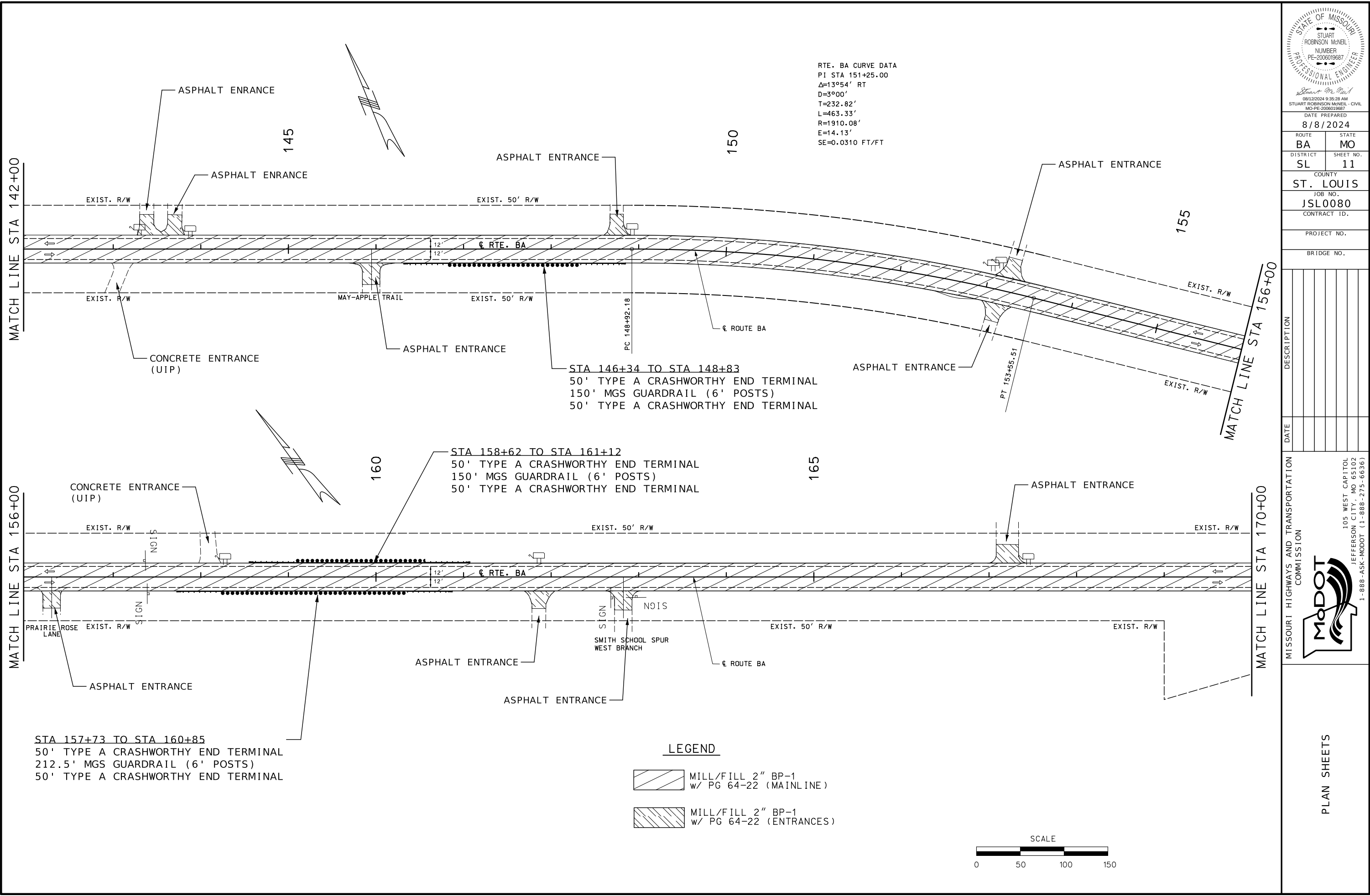
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MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102

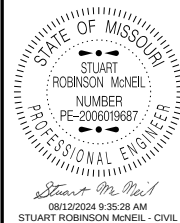
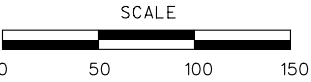
PLAN SHEETS



RTE. BA CURVE DATA
PI STA 151+25.00
Δ=13°54' RT
D=3°00'
T=232.82'
L=463.33'
R=1910.08'
E=14.13'
SE=0.0310 FT/FT

LEGEND

- MILL/FILL 2" BP-1
w/ PG 64-22 (MAINLINE)
- MILL/FILL 2" BP-1
w/ PG 64-22 (ENTRANCES)



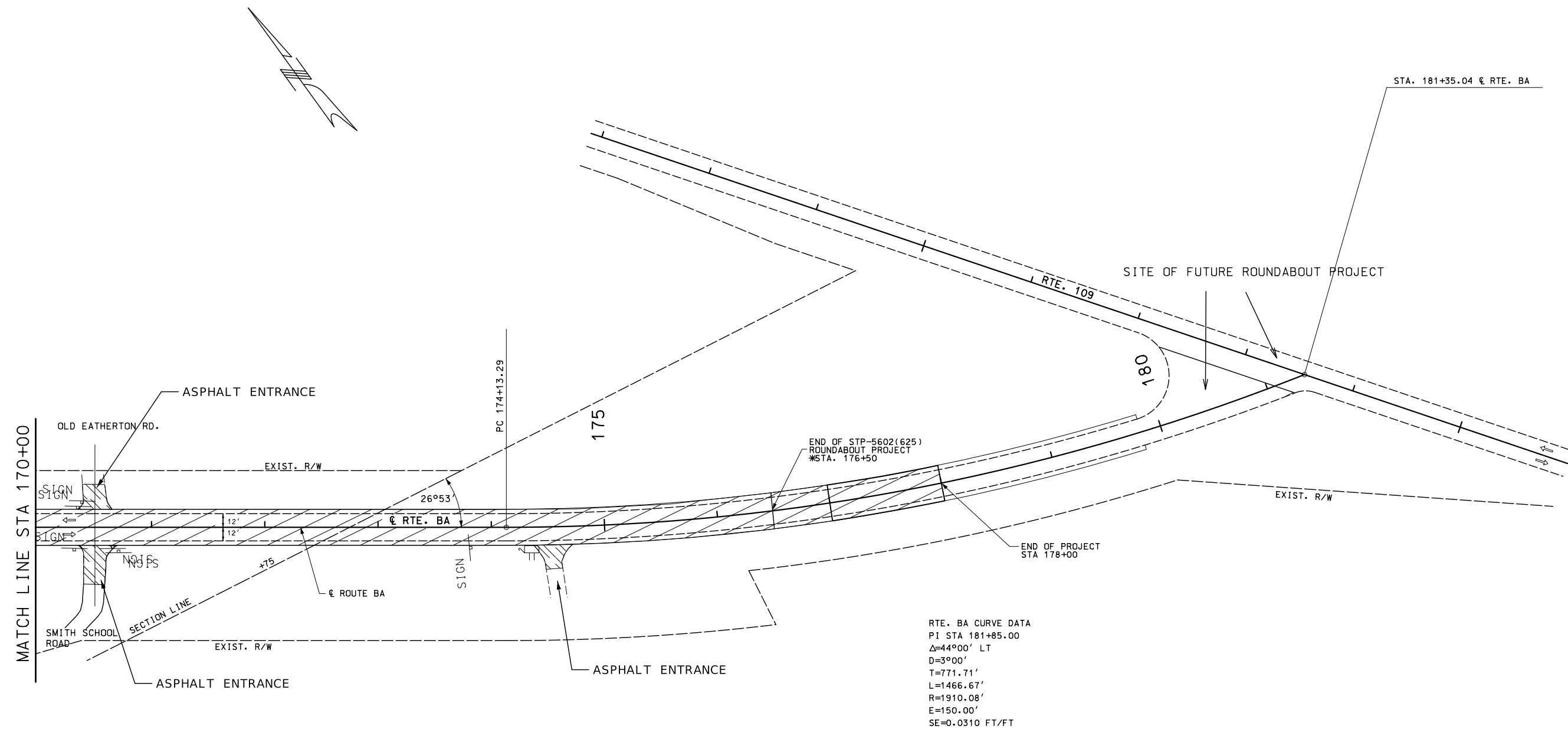
DATE PREPARED 8/8/2024	
ROUTE BA	STATE MO
DISTRICT SL	SHEET NO. 11
COUNTY ST. LOUIS	
JOB NO. JSL0080	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEETS



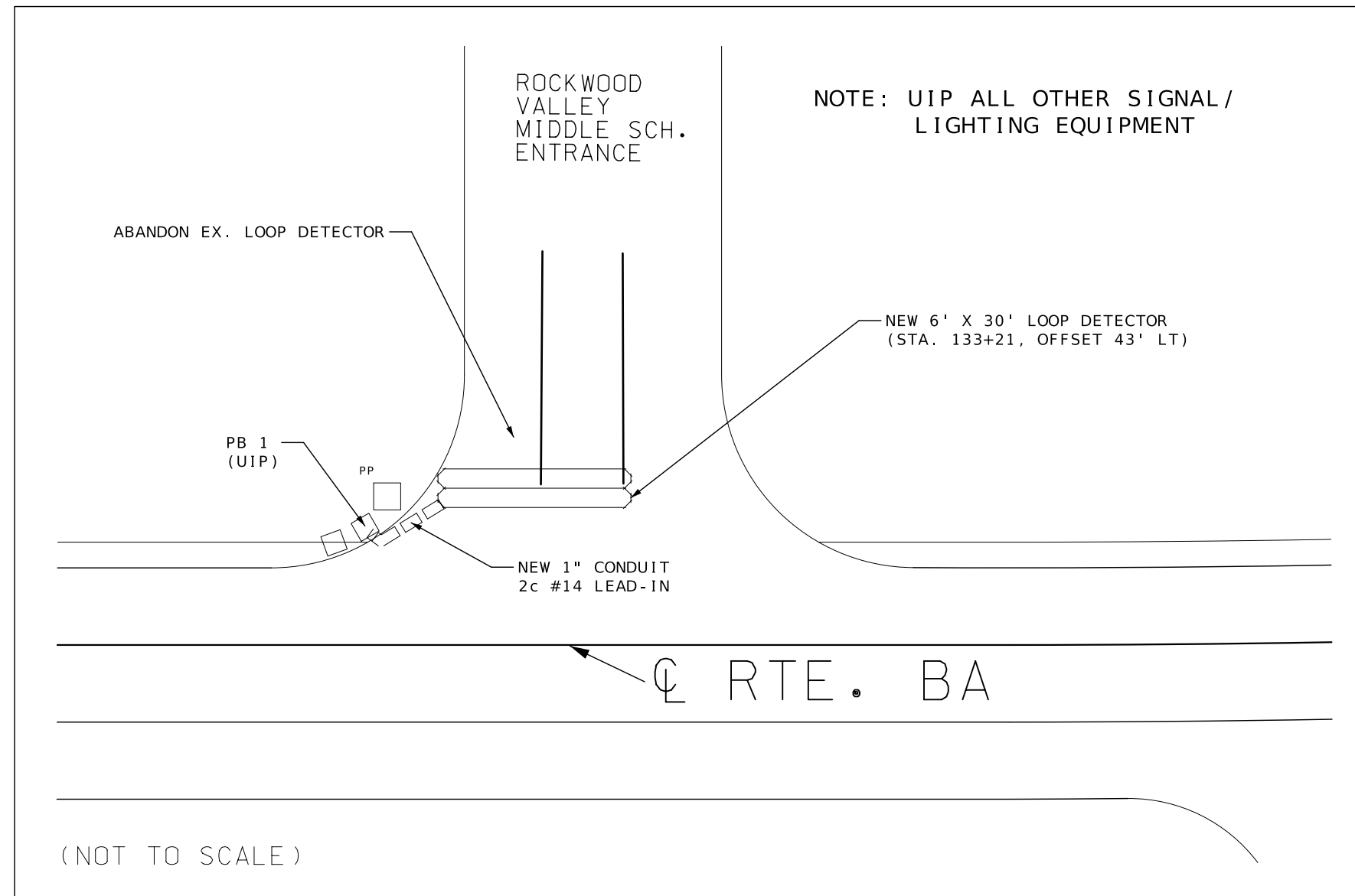
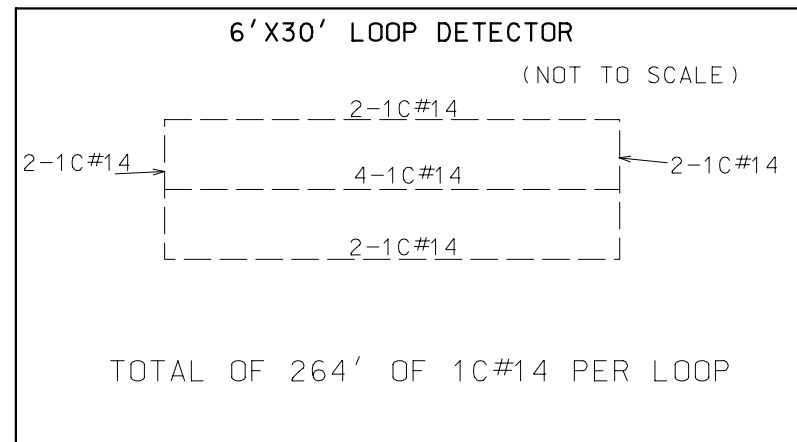
* LOCATION IS APPROXIMATE, BASED ON
STP-5602(625) DRAFT FINAL PLANS

-  MILL/FILL 2" BP-1
w/ PG 64-22 (MAINLINE)
-  MILL/FILL 2" BP-1
w/ PG 64-22 (ENTRANCES)

STUART ROBINSON McNEIL
NUMBER
PE-2006019687

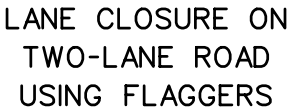
Stuart McNeil
08/12/2024 9:35:37 AM
STUART ROBINSON McNEIL - CIVIL

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



CONDUIT					CABLE								REMARKS		
FROM	TO	CTR TO CTR DISTANCE	PUSHED		FROM	TO	CTR TO CTR DISTANCE	LOOPS		CONTROL					
			3"	1"				INDUC-TION	LEAD-IN						
										1c-#14	2c-#14	2c-#16		7c-#16	2c-#12
EX PB 1	LOOP DET.	21.9		22	EX PB 1	LOOP DET.	21.9	308	47				6' X 30' LOOP		
													</		

SPECIAL SHEET FOR
LOOP DETECTION AT ROCKWOOD VALLEY MIDDLE SCHOOL
(FOR FLASHING BEACON ON S1-1 SIGN AT STA. 139+05)



NOTES:

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

AFAD AND PSFD TYPICAL APPLICATIONS AND CRITERIA ARE LOCATED AT THE FOLLOWING: EPG 616.8.10A (TA-10A) LANE CLOSURE ON TWO-LANE HIGHWAYS USING AUTOMATED FLAGGER ASSISTANCE DEVICE WITH RED AND AMBER SIGNAL SYSTEM & EPG 616.8.10C (TA-10C) LANE CLOSURE ON TWO-LANE HIGHWAYS USING PORTABLE SIGNAL FLAGGING DEVICE.

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.

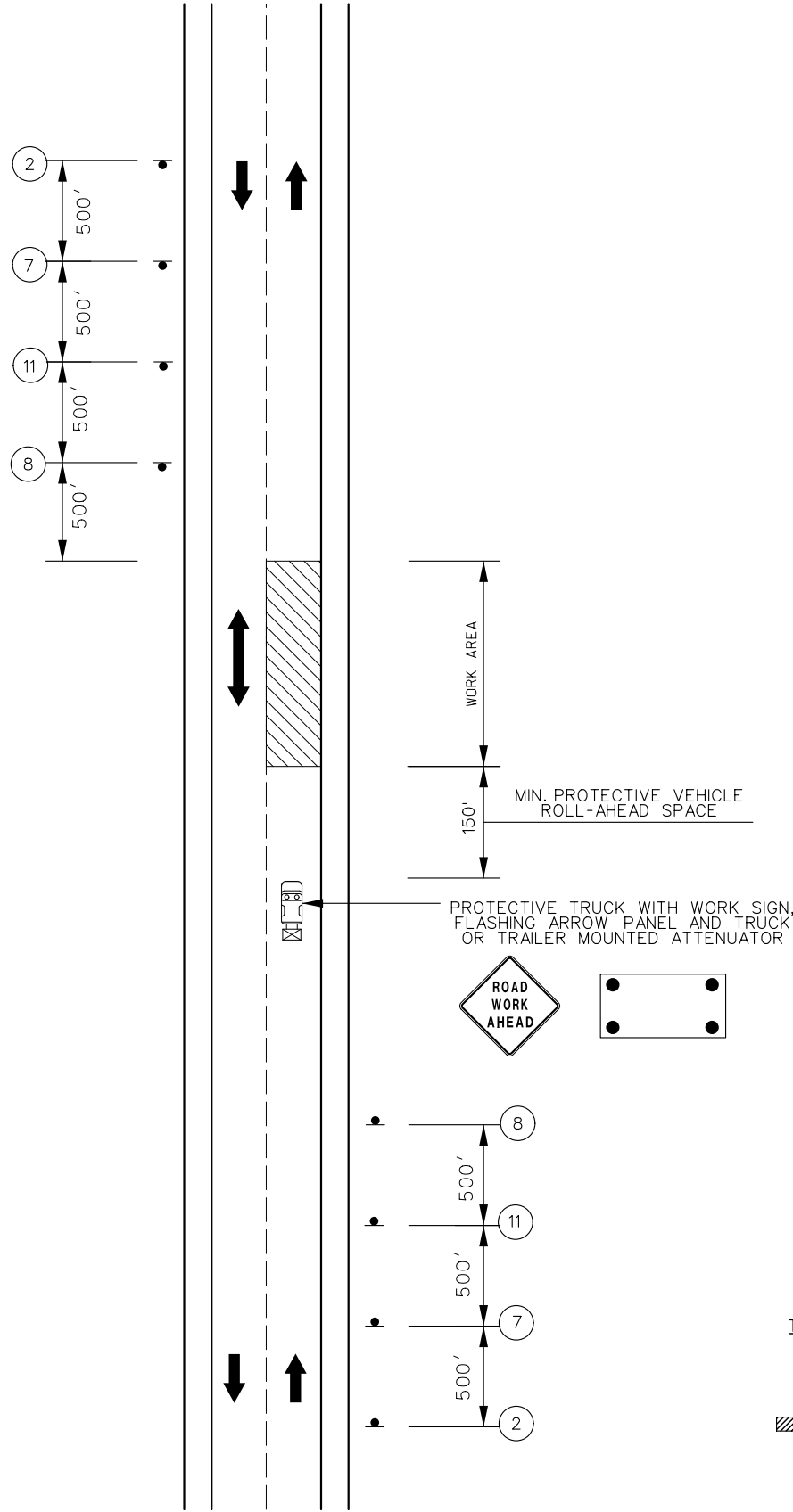
IF RUMBLE STRIPS ARE USED, REVIEW 616.6.87 RUMBLE STRIPS.

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

TRAFFIC CONTROL LEGEND

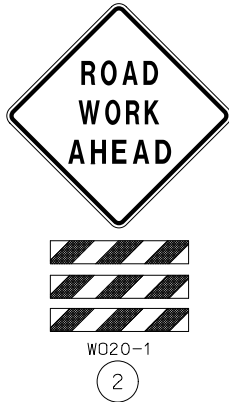
	SIGN (SINGLE SIDED)
	CHANNELIZER (TRIM-LINE)
	WORK AREA
	FLAGGER

[illegible]



MOBILE OPERATION
ON TWO-LANE HIGHWAYS

NOT TO SCALE



NOTES:

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.

FLASHING ARROW PANELS SHALL BE OPERATED IN CAUTION MODE.

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

SEE EPG TYPICAL APPLICATION 616.10 LANE CLOSURE ON TWO-LANE HIGHWAYS USING FLAGGERS-DE/CM FOR FLAGGER LOCATIONS.

THE FLAGGER POSITION SHOULD BE LOCATED WHERE THEY WILL PROVIDE THE MOST VALUE TO THE MOTORIST AND THE WORK CREW.

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

VEHICLE HAZARD WARNING LIGHTS 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 LEGEND ON VEHICLE-MOUNTED SIGNS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.

IF RUMBLE STRIPS ARE USED, REVIEW 616.6.87 RUMBLE STRIPS.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- WORK AREA
- TMA (TRUCK MOUNTED ATTENUATOR)

STATE OF MISSOURI

STUART ROBINSON MCNEIL

NUMBER PE-2008019687

PROFESSIONAL ENGINEER

08/12/2024 9:36:20 AM

STUART ROBINSON MCNEIL - CIVIL

MO-PE-2008019687

DATE PREPARED

8/8/2024

ROUTE

BA

STATE

MO

DISTRICT

SL

SHEET NO.

16

COUNTY

ST. LOUIS

JOB NO.

JSL0080

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

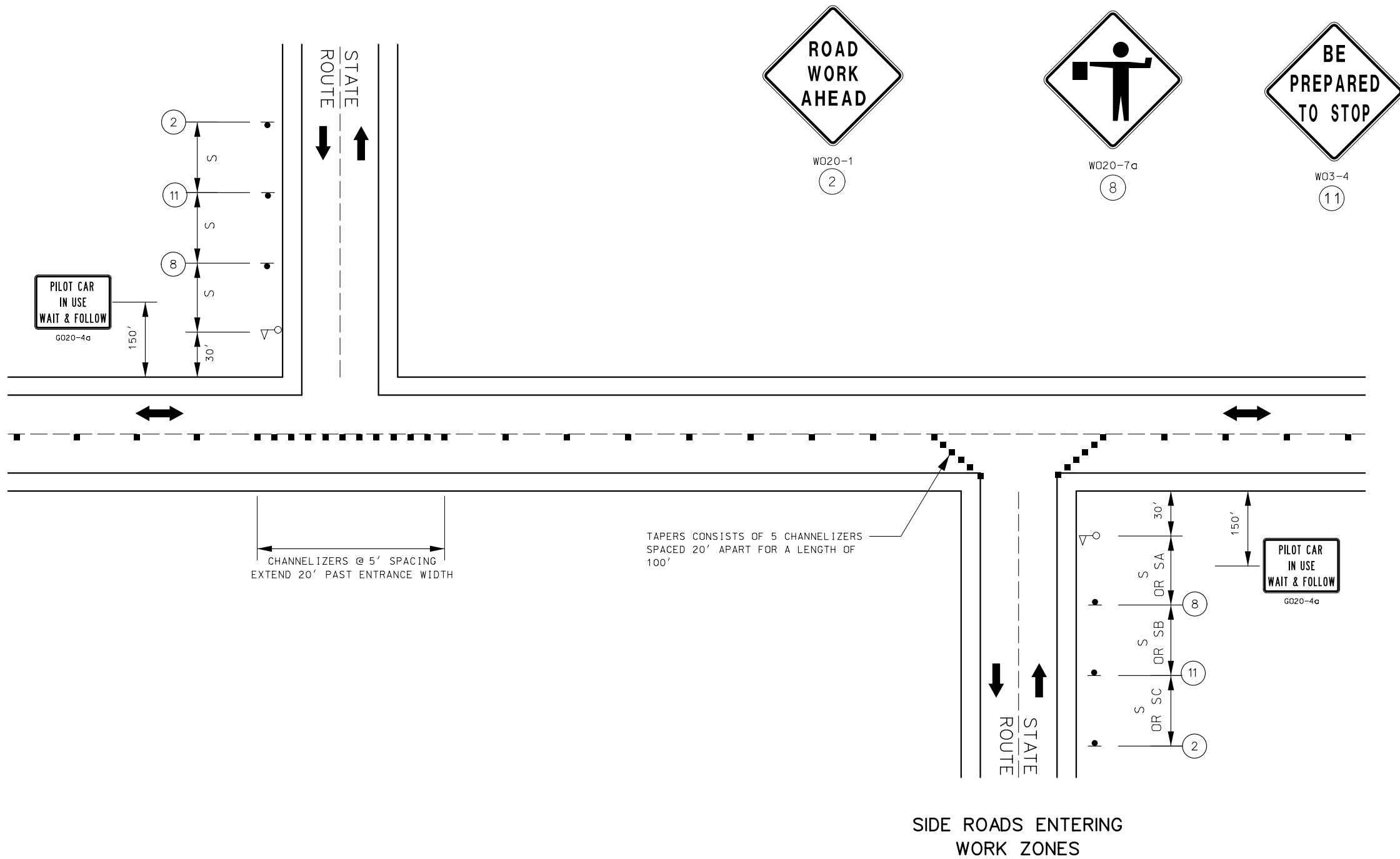
105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

MODOT

TRAFFIC CONTROL SHEET 3



NOT TO SCALE

SPEED	SIGN SPACING (ft.)	
	UN -DIVIDED (S)	DIVIDED (S)
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	1000	SA-1000 SB-1500 SC-2640

STATE OF MISSOURI

STUART ROBINSON McNEIL

NUMBER
PE-2006019687

PROFESSIONAL ENGINEER

Stuart McNeil

06/12/2024 9:36:28 AM

STUART ROBINSON McNEIL - CIVIL

MO-PE-2006019687

DATE PREPARED
8/8/2024

ROUTE
BA

DISTRICT
SL

STATE
MO

SHEET NO.
17

COUNTY
ST. LOUIS

JOB NO.
JSL0080

CONTRACT ID.

PROJECT NO.

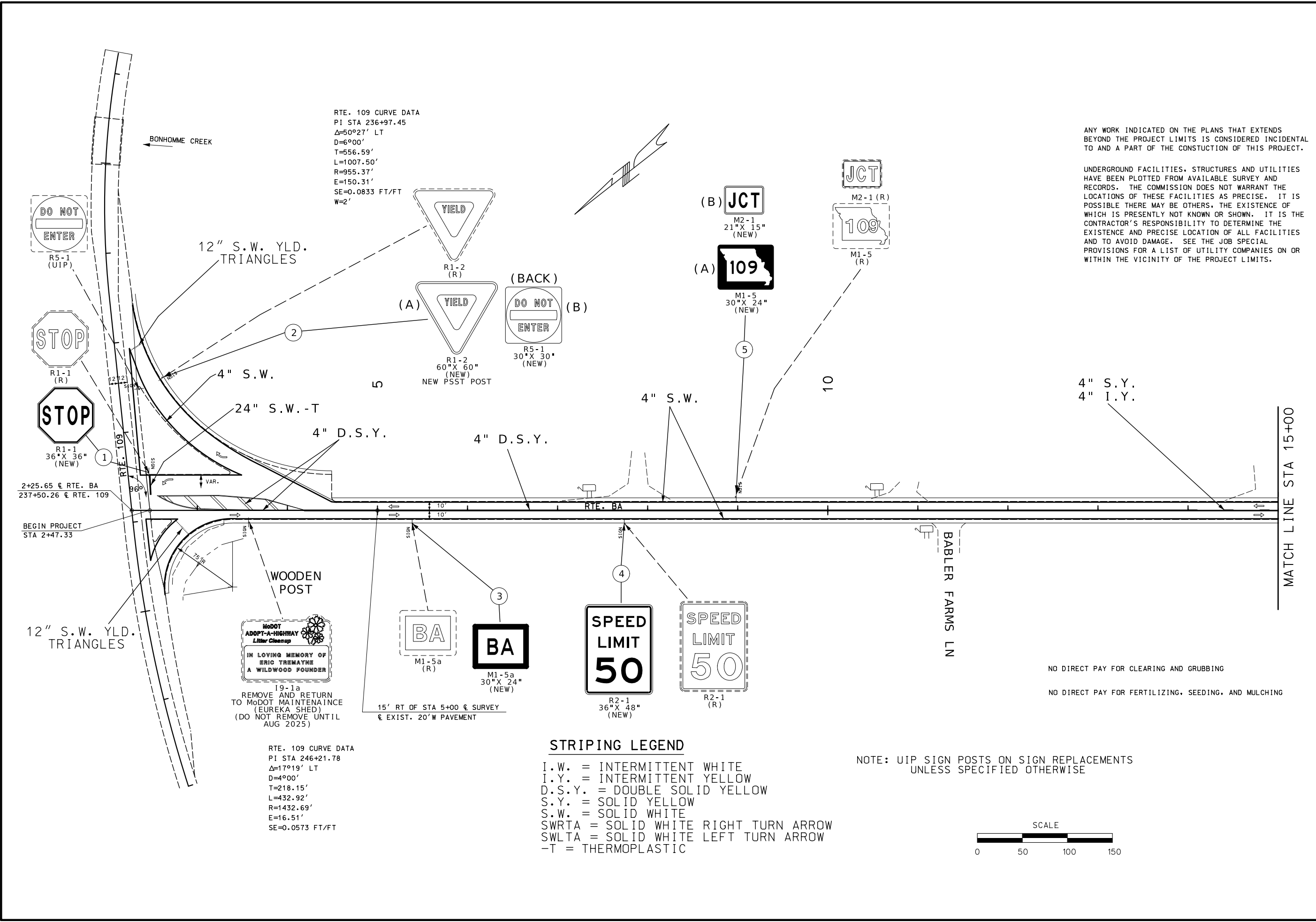
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

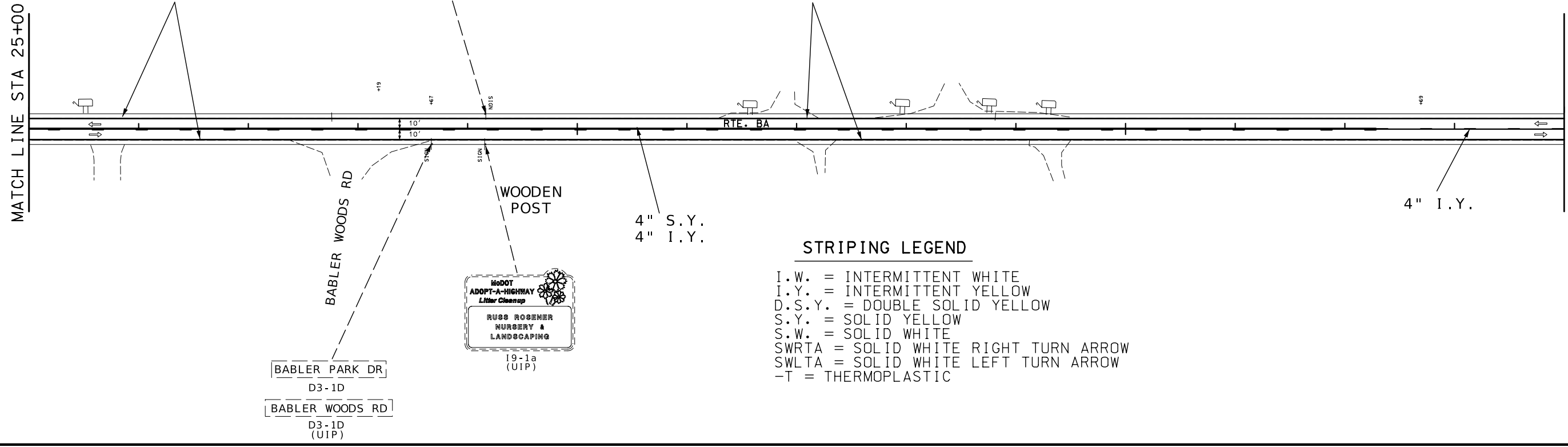
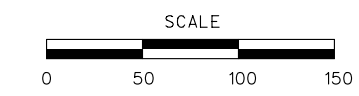
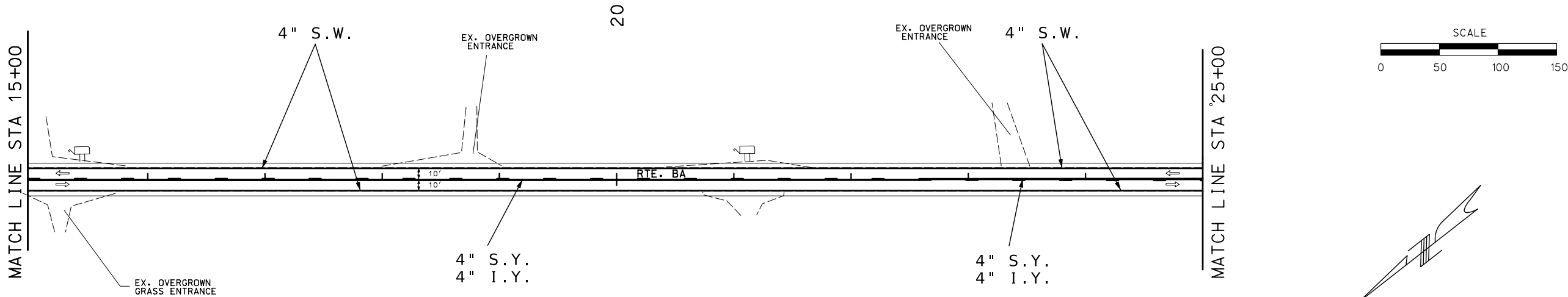
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



STATE OF MISSOURI
STUART ROBINSON MOHEIL
NUMBER
PE-2006019687
PROFESSIONAL ENGINEER
08/12/2024 9:41:55 AM
STUART ROBINSON MOHEIL - CIVIL
MO-PE-2006019687
DATE PREPARED
8/8/2024
ROUTE
BA
DISTRICT
SL
COUNTY
ST. LOUIS
JOB NO.
JSL0080
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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

PAVEMENT MARKING
AND SIGNING
SHEETS



- STRIPING LEGEND**
- I.W. = INTERMITTENT WHITE
 - I.Y. = INTERMITTENT YELLOW
 - D.S.Y. = DOUBLE SOLID YELLOW
 - S.Y. = SOLID YELLOW
 - S.W. = SOLID WHITE
 - SWRTA = SOLID WHITE RIGHT TURN ARROW
 - SWLTA = SOLID WHITE LEFT TURN ARROW
 - T = THERMOPLASTIC

STATE OF MISSOURI

STUART ROBINSON MCNEIL

NUMBER PE-2006019687

PROFESSIONAL ENGINEER

08/12/2024 9:41:38 AM

STUART ROBINSON MCNEIL - CIVIL

MO-PE-2006019687

DATE PREPARED
8/8/2024

ROUTE BA

DISTRICT SL

STATE MO

SHEET NO. 20

COUNTY
ST. LOUIS

JOB NO.
JSL0080

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

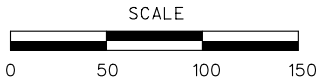
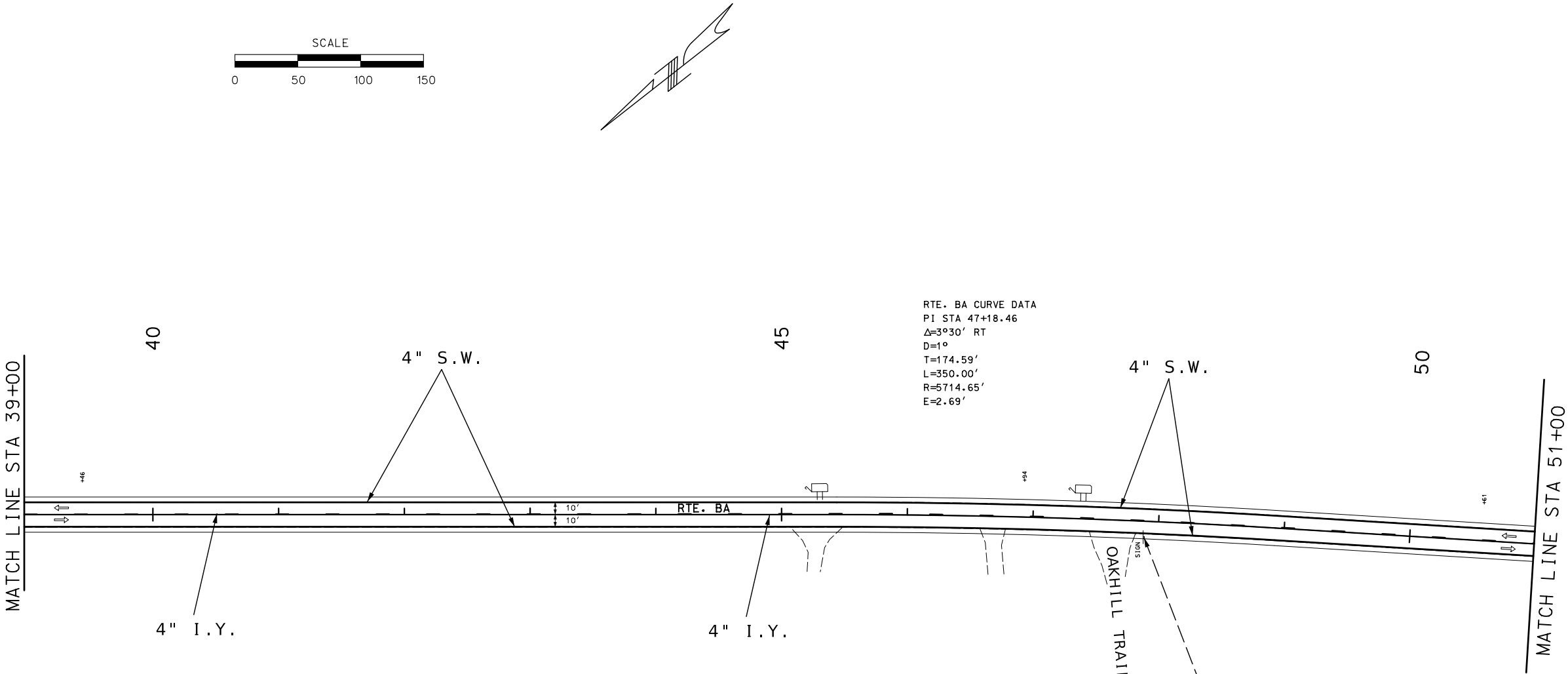
JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

MoDOT

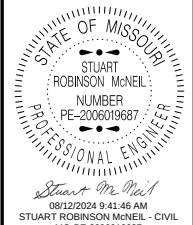
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PAYEMENT MARKING AND SIGNING SHEETS



STRIPING LEGEND

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DATE PREPARED 8/8/2024	
ROUTE BA	STATE MO
DISTRICT SL	SHEET NO. 21
COUNTY ST. LOUIS	
JOB NO. JSL0080	
CONTRACT ID.	

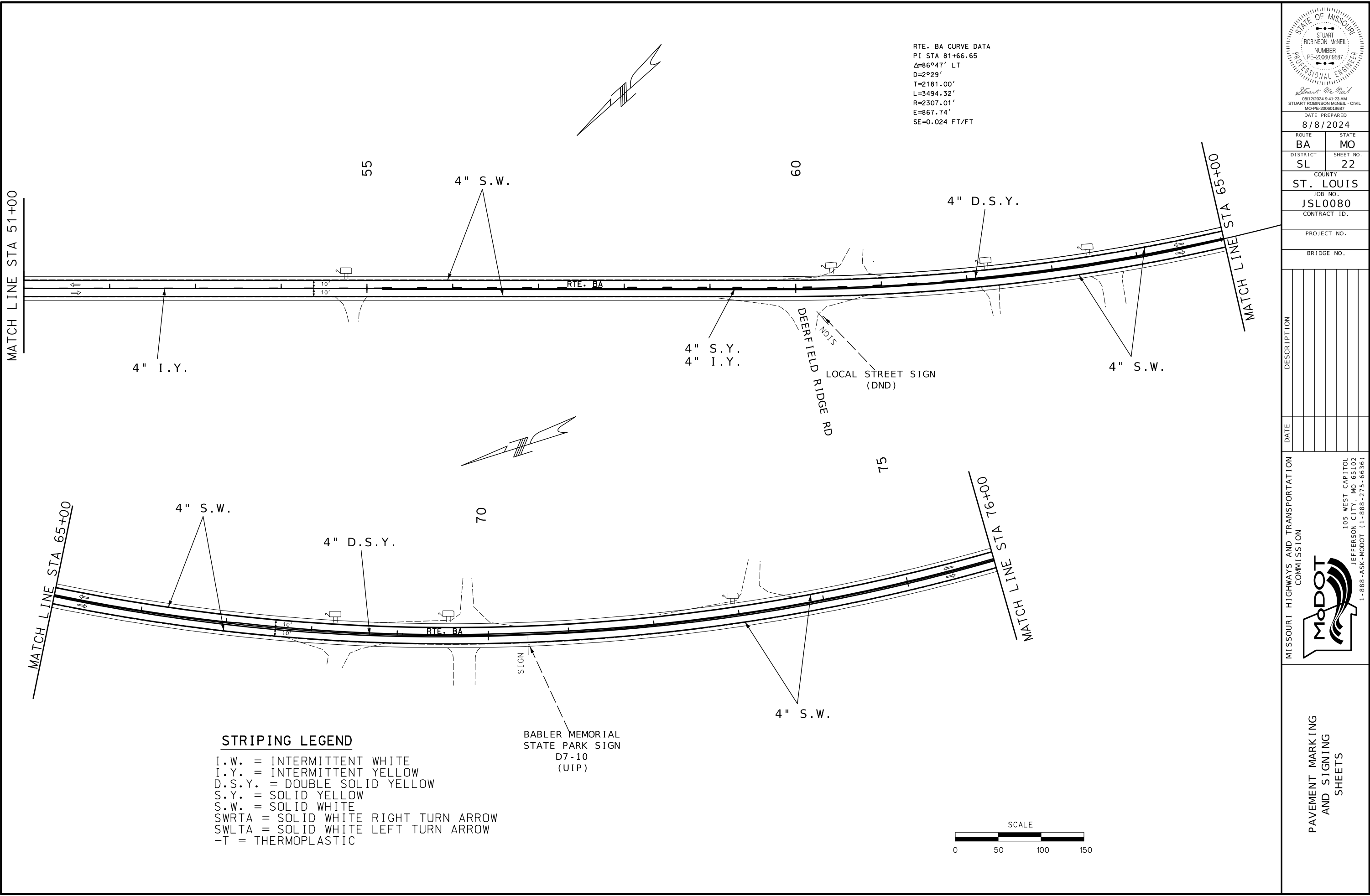
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PAVEMENT MARKING
AND SIGNING
SHEETS



DATE PREPARED
8/8/2024

ROUTE	STATE
BA	MO
DISTRICT	SHEET NO.
SL	22

COUNTY
ST. LOUIS
JOB NO.
JSL0080
CONTRACT ID.

PROJECT NO.

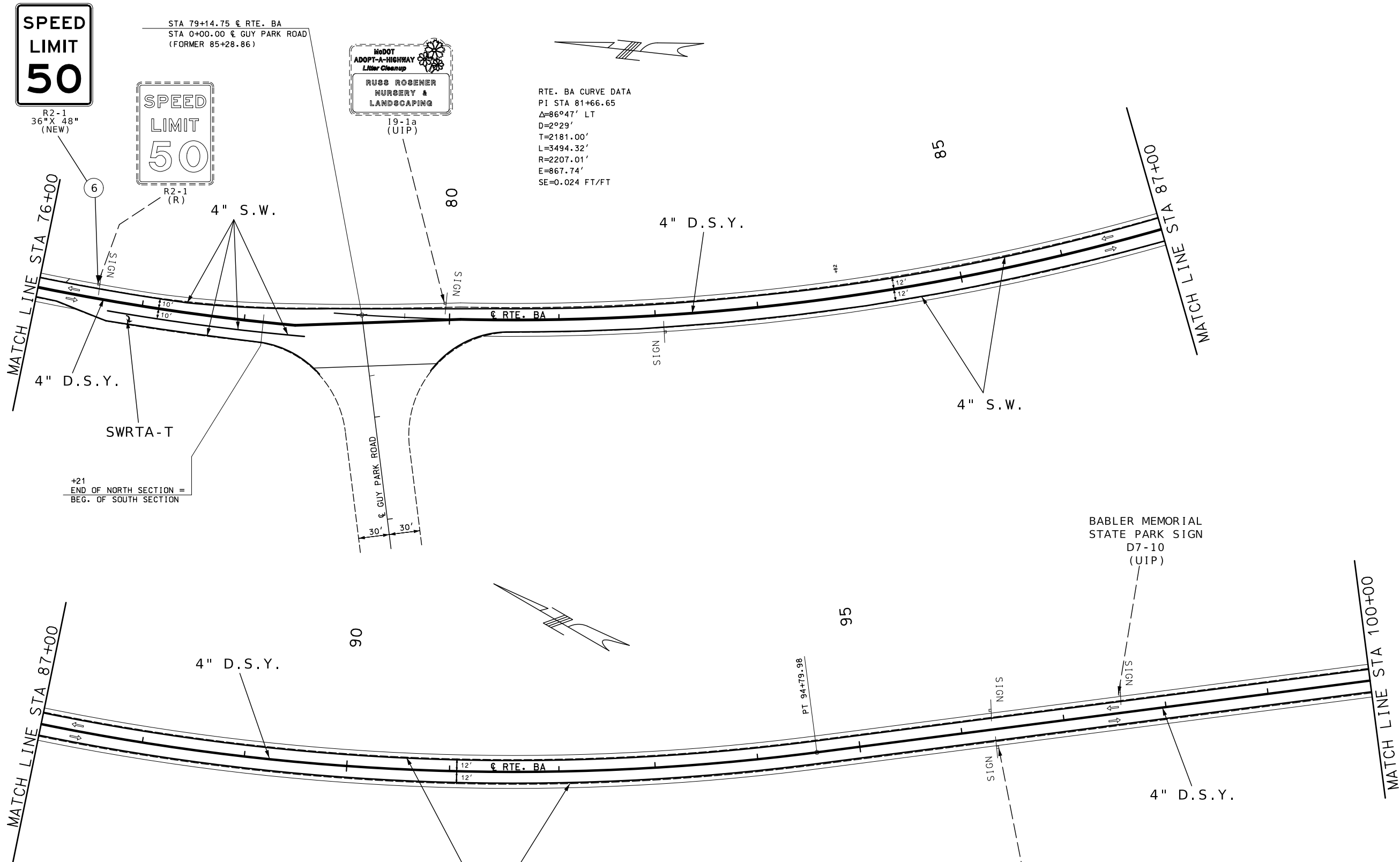
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

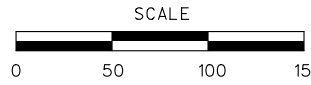
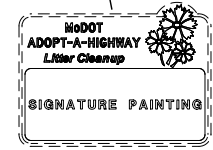
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

PAVEMENT MARKING
AND SIGNING
SHEETS



RTE. BA CURVE DATA
PI STA 81+66.65
 $\Delta=86^{\circ}47'$ LT
D=2181.00'
L=3494.32'
R=2207.01'
E=867.74'
SE=0.024 FT/FT

- STRIPING LEGEND**
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STATE OF MISSOURI

STUART ROBINSON MOORE

NUMBER PE-2006019687

PROFESSIONAL ENGINEER

08/12/2024 9:41:14 AM

STUART ROBINSON MOORE - CIVIL

MO-PE-2006019687

DATE PREPARED
8/8/2024

ROUTE BA

DISTRICT SL

STATE MO

SHEET NO. 23

COUNTY
ST. LOUIS

JOB NO.
JSL0080

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

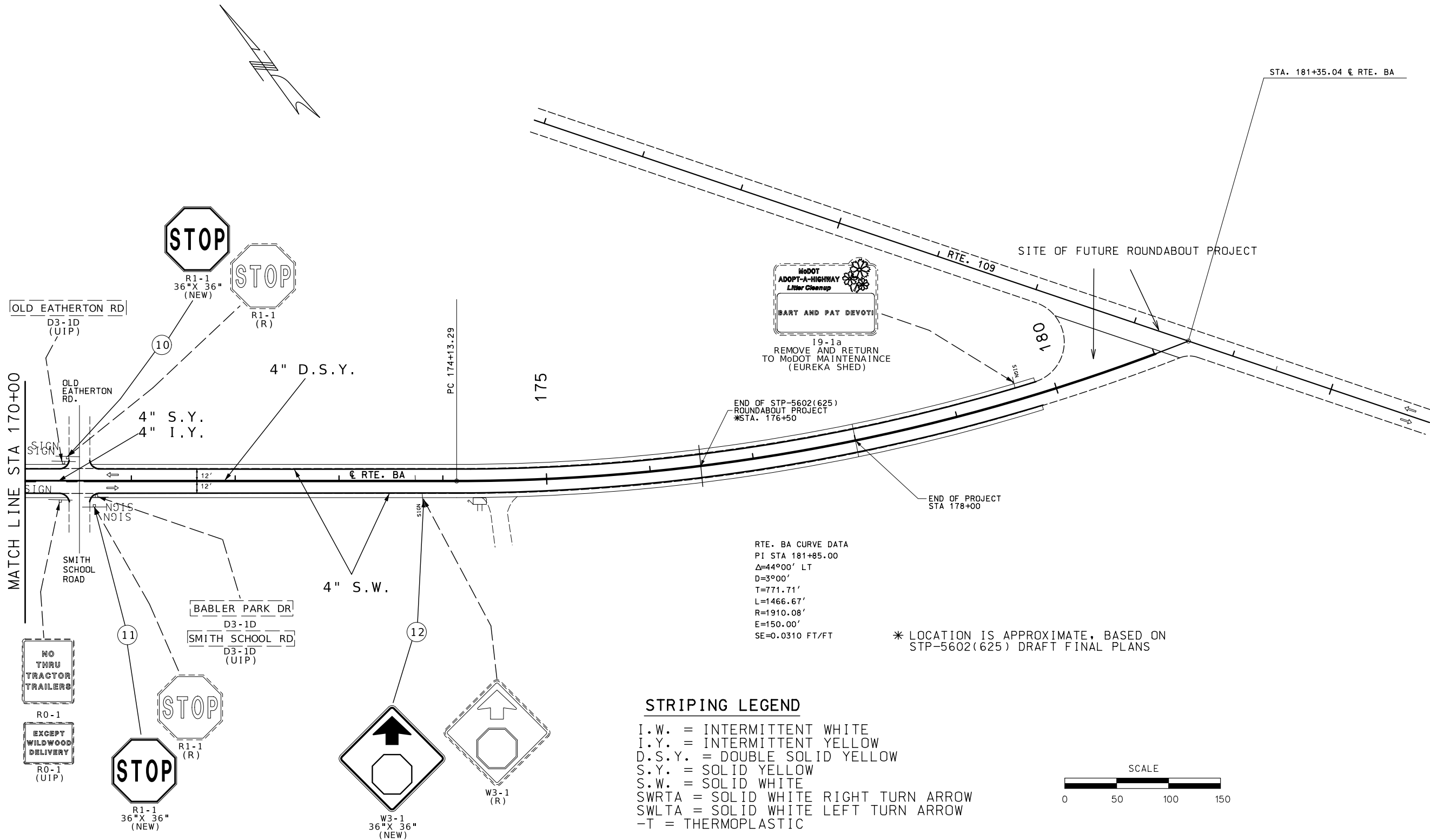
MoDOT

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

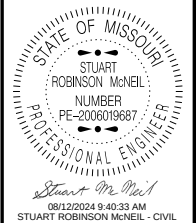
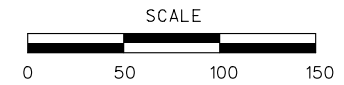
1-888-ASK-MODOT (1-888-275-6636)

PAYEMENT MARKING AND SIGNING SHEETS



STRIPING LEGEND

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DATE PREPARED
8/8/2024

ROUTE BA	STATE MO
DISTRICT SL	SHEET NO. 27
COUNTY ST. LOUIS	
JOB NO. JSL0080	
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)

PAYEMENT MARKING AND SIGNING SHEETS

SIGNS

902 SIGNAL SIGNS TABULATED ON D-37A SHEET

SIGN NO.

SIGN SIZE

STATION

HORZ CLEAR IF NOT STD

LOCATION

SIGN DTL. SHT. NO.

CONCRETE FOOTINGS EMBEDDED

ITEM NO. 9031010
CY

STRUCTURAL STEEL POSTS *

POST DES NO.

POST NO. 1

POST NO. 2

POST NO. 3

LBS PER FT

TOTAL ITEM NO. 9031210
LBS

PIPE POSTS *

PIPE SIZE

POST NO. 1

POST NO. 2

LBS PER FT

TOTAL ITEM NO. 9031220
LBS

BACKING BARS **

2" X 3/8" BARS @ 2.55 LBS PER FT

NO. EACH

LGTH IN.

TOTAL LF

TOTAL LBS

U-CHANNEL POST

ITEM NO. 9031250A
LF

PERFORATED SQUARE STEEL TUBE

2 IN. POST

POST NO. 1

POST NO. 2

TOTAL ITEM NO. 9031270A
LF

ANCHORS

DRIVEN 12-GA. ITEM NO. 9031271A
EA

DRIVEN 7-GA. ITEM NO. 9031273A
EA

CONCRETE 7-GA. ITEM NO. 9031274
EA

2.5 IN. POST

POST NO. 1

POST NO. 2

TOTAL ITEM NO. 9031280
LF

2.25" INSERT (6 FT) ITEM NO. 9031272A
EA

ANCHORS

DRIVEN 7-GA. ITEM NO. 9031281A
EA

CONCRETE 7-GA. ITEM NO. 9031285
EA

BREAK-AWAY ASSEMBLY

ITEM NO. 9031241
EA

REMARKS AND OTHER REQUIRED ITEMS

DATE PREPARED

8/12/2024

ROUTE

BA

STATE

MO

DISTRICT

SL

SHEET NO.

28

COUNTY

ST. LOUIS

JOB NO.

JSL0080

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)

SUBTOTAL

TOTAL

TO BE USED ON REPLACED SIGNS AS NEEDED

ROUND PIPE POST AND FOOTING DATA TABLE

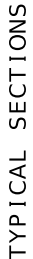
NOM. SIZE	WEIGHT		STUB LENGTH	FOOTING		CONCRETE C.Y.
(IN.)	LBS/FT	LBS/IN		DIA.	DEPTH	
2 1/2	5.79	0.48	4'- 3 1/2"	12"	4-6"	0.13
3	7.58	0.63	4'- 3 1/2"	12"	4-6"	0.13
4	10.79	0.90	5'- 3 1/2"	18"	5-6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST WEIGHT		STUB LENGTH	DIA.	FOOTING									
		LBS/FT	LBS/IN			LEVEL	GROUND	6:1 GRADE		4:1 GRADE		3:1 OR 2:1 GRADE			
						DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17		
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54		
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78		
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45		
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52		
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65		

D-29

* ORANGE, YELLOW & YELLOW/GREEN



REMOVAL OF IMPROVEMENTS								
PLAN SHEET NO.	ROAD	STA	STA	LOC				
					DESCRIPTION	QTY	UNIT	REMARKS
9	BA	100+26	103+19	RT	GUARDRAIL	162	LF	
9	BA	100+28	103+16	LT	GUARDRAIL	155	LF	
10	BA	135+11	137+81	RT	GUARDRAIL	267	LF	
19	BA	2+68	8+98	VAR.	SIGNS	5	EA	
19	BA	2+68		LT	SIGN POST	1	EA	
19	BA	3+57		RT	ADOPT A HWY SIGN AND POST	1	EA	MAY BE REMOVED AUG 2025
20	BA	29+17		LT	ADOPT A HWY SIGN AND POST	1	EA	MAY BE REMOVED AUG 2025
23	BA	76+58		LT	SIGN	1	EA	
23	BA	96+32		RT	ADOPT A HWY SIGN AND POST	1	EA	
24	BA	110+19		RT	SIGN	1	EA	
24	BA	109+63	112+27	VAR.	ADOPT A HWY SIGN AND POST	2	EA	
25	BA	114+21		RT	SIGN	1	EA	
26	BA	157+35	157+39	VAR.	ADOPT A HWY SIGN AND POST	2	EA	
26	BA	162+86		RT	SIGN	1	EA	
27	BA	170+40	174+7	VAR.	SIGNS	3	EA	
27	BA	179+61		LT	ADOPT A HWY SIGN AND POST	1	EA	
						PAY TOTAL		1 LUMP SUM

MOBILIZATION - 1 LUMP SUM

CONTRACTOR FURNISHED SURVEY & STAKING - 1 LUMP SUM

GRASS SEEDING - 0.1 ACRE

PAVEMENT MARKINGS														
PLAN SHEET NO.	STA	STA	ROADWAY										REMARKS	
				WATERBORNE PAVEMENT MARKING PAINT TYPE P BEADS					PREFORMED THERMOPLASTIC PAVEMENT MARKING					
				4" S.Y. L.F.	4" I.Y. L.F.	4" S.W. L.F.	4" I.W. L.F.	12" S.Y.	12" YIELD LINE TRIANGLES EACH	24" S.W. STOP BAR L.F.	LT ARROW EACH	RT ARROW EACH		ST ARROW EACH
19	0+00	25+00	I-44	2896.4	25.0	3250.5			30	22				
20	25+00	51+00	I-44	997.3	251.6	2003.8								
20	51+00	77+00	I-44	1227.8	349.7	2798.8								
21	77+00	105+00	I-44		300.2	2401.9								
22	105+00	131+00	I-44	1279.5	267.3	2748.4								
22	114+06	131+00	FOX CR	2168.4		2168.4								
23	131+00	157+00	I-44	2204.0		2312.9					1			
23	131+00	157+00	FOX CR	2600.0		2599.0								
24	157+00	170+00	I-44	2162.0	112.5	2679.0								
25	157+00	170+00	FOX CR	1496.0	326.5	2804.0								
25	170+00	183+25	I-44/RMP	4329.0	12.5	2792.0			26	1	1	1		
26	183+25	197+75	I-44	2729.0	40.0	2804.0								
26	185+00	198+43.46	5TH ST	1213.0	319.3	2804.0								
27	197+75	211+81.53	I-44	1256.0	14.3	1259.0								
SUB TOTALS				26558.4	2018.9	35425.7	0.0	0.0	30.0	48.0	1.0	2.0	1.0	
PAY TOTALS				28577		35426		0.0	30	48	3		1	

STATE OF MISSOURI

STUART ROBINSON McNEIL

NUMBER
PE-2006019687

PROFESSIONAL ENGINEER

Stuart McNeil

08/12/2024 9:33:48 AM

STUART ROBINSON McNEIL - CIVIL

MO-PE-2006019687

DATE PREPARED
8/9/2024

ROUTE
BA

STATE
MO

DISTRICT
SL

SHEET NO.
03

COUNTY
ST. LOUIS

JOB NO.
JSL0080

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)

SUMMARY OF QUANTITIES

EFFECTIVE: 07-01-2024																			
SIGN	SIZE	AREA	QTY	TOTAL	QTY	TOTAL	SIGN									ITEM	TOTAL		
IN.	SQ. FT.		EACH	AREA	RELOC	RELOC	NUM.									NUMBER	QTY	DESCRIPTION	
WARNING SIGNS								DESCRIPTION											
W01-1L	48X48	16.00						TURN (SYMBOL LEFT)								6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)	
W01-1R	48X48	16.00						TURN (SYMBOL RIGHT)								6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)	
W01-2L	48X48	16.00						CURVE (SYMBOL LEFT)								6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)	
W01-2R	48X48	16.00						CURVE (SYMBOL RIGHT)								6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)	
W01-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)								6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)	
W01-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)								6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)	
W01-4L	48X48	16.00	2	32				REVERSE CURVE (SYMBOL LEFT)								6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)	
W01-4R	48X48	16.00	2	32				REVERSE CURVE (SYMBOL RIGHT)								6122020		REPLACEMENT SAND BARREL	
W01-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)								6122030		IMPACT ATTENUATOR (RELOCATION)	
W01-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)								6123001		TRUCK MOUNTED ATTENUATOR (TMA)	
W01-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)								6161008		ADVANCED WARNING RAIL SYSTEM	
W01-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)								6161012		BUOYS (BOATS KEEP OUT)	
W01-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)								6161013		BUOYS (NO WAKE)	
W01-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)								6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)	
W01-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)								6161025	46	CHANNELIZER (TRIM LINE)	
W01-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)								6161030		TYPE III MOVEABLE BARRICADE	
W01-8	18X24	3.00						CHEVRON (SYMBOL)								6161033		DIRECTION INDICATOR BARRICADE	
W01-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)								6161040		FLASHING ARROW PANEL	
W03-1	48X48	16.00						STOP AHEAD (SYMBOL)								6161047		TYPE III OBJECT MARKER	
W03-2	48X48	16.00						YIELD AHEAD (SYMBOL)								6161055		SEQUENTIAL FLASHING WARNING LIGHT	
W03-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)								6161070		TUBULAR MARKER	
W03-4	48X48	16.00	2	32				BE PREPARED TO STOP								6161095		RADAR SPEED ADVISORY SYSTEM	
W03-5	48X48	16.00	2	32				SPEED LIMIT AHEAD								6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED	
W04-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)								6161098A	3**	CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED	
W04-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)								6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED	
W04-1aL	48X48	16.00						MERGE (LEFT)								6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM	
W04-1aR	48X48	16.00						MERGE (RIGHT)								6162002		TEMPORARY LONG-TERM RUMBLE STRIPS	
W05-1	48X48	16.00	4	64				ROAD/BRIDGE/RAMP NARROWS								6173600D		TEMPORARY TRAFFIC BARRIER	
W05-3	48X48	16.00						ONE LANE BRIDGE								6173602B		CONTRACTOR FURNISHED/RETAINED	
W05-5	48X48	16.00						NARROW LANES								6174000A		TEMPORARY TRAFFIC BARRIER	
W06-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)								6175010A		CONTRACTOR FURNISHED/COMMISSION RETAINED	
W06-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)								6176000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	
W06-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)								6177000B		RELOCATING TEMPORARY TRAFFIC BARRIER	
W07-3a	30X24	5.00	4	20				NEXT XX MILES (PLAQUE)								6208064A		TEMPORARY TRAFFIC BARRIER	
W08-1	48X48	16.00						BUMP								9029400		COMMISSION FURNISHED/RETAINED	
W08-2	48X48	16.00						DIP								9029401		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	
W08-3	48X48	16.00						PAVEMENT ENDS										TEMPORARY TRAFFIC SIGNALS	
W08-4	48X48	16.00						SOFT SHOULDER										TEMPORARY TRAFFIC SIGNALS AND LIGHTING	
W08-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)											
W08-6	48X48	16.00						TRUCK CROSSING											
W08-6c	48X48	16.00						TRUCK ENTRANCE											
W08-7	36X36	9.00						LOOSE GRAVEL											
W08-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL											
W08-9	48X48	16.00						LOW SHOULDER											
W08-11	48X48	16.00						UNEVEN LANES											
W08-12	48X48	16.00						NO CENTER LINE											
W08-15	48X48	16.00						GROOVED PAVEMENT											
W08-15P	30X24	5.00						MOTORCYCLE (PLAQUE)											
W08-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)											
W08-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)											
W08-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)											
W10-1	42RND.	9.62						RAILROAD CROSSING											
W012-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)											
W012-2	48X48	16.00						LOW CLEARANCE (SYMBOL)											
W012-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)											
W012-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)											
W012-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD											
W012-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD											
W013-1	30X30	6.25						ADVISORY SPEED (PLAQUE)											
W016-2	30X24	5.00						XXX FEET (PLAQUE)											
W016-3	30X24	5.00						X MILE (PLAQUE)											
W020-1	48X48	16.00	4	64				ROAD/BRIDGE/RAMP WORK AHEAD											
W020-2	48X48	16.00						DETOUR AHEAD											
W020-3	48X48	16.00						ROAD CLOSED AHEAD											
W020-4	48X48	16.00	2	32				ONE LANE ROAD AHEAD											
W020-5	48X48	16.00	2	32				RIGHT/CENTER/LEFT LANE CLOSED AHEAD											
W020-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD											
W020-6a	48X48	16.00	2	32				RIGHT/CENTER/LEFT LANE CLOSED											
W020-7a	48X48	16.00	2	32				FLAGGER (SYMBOL)											
W021-2	36X36	9.00						FRESH OIL											
W021-5	48X48	16.00	2	32				SHOULDER WORK / SHOULDER WORK AHEAD											
W022-1	48X48	16.00						BLASTING ZONE AHEAD											
W022-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE											
W022-3	42X36	10.50						END BLASTING ZONE											
GO22-1	21X15	2.19	4	8.76				WET PAINT (ARROW PIVOTS)											

NOTE: ALL TRAFFIC CONTROL ITEMS ARE INCLUDED IN PAY ITEM 616-99.01, TEMPORARY TRAFFIC CONTROL, LUMP SUM, UNLESS NOTED OTHERWISE IN THE PLANS. THESE QUANTITIES ARE ONLY AN ESTIMATE AND ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS.

-NO DIRECT PAY WILL BE MADE FOR CONSTRUCTION SIGNS OR DEVICES

-SIGN AND DEVICE LOCATIONS WILL BE FIELD VERIFIED AND APPROVED BY THE ENGINEER

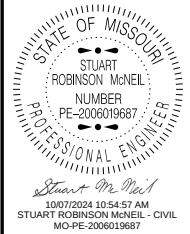
-CMS LOCATIONS TO BE DETERMINED BY THE ENGINEER

* NO DIRECT PAYMENT FOR RELOCATED SIGNS

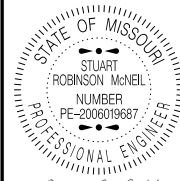
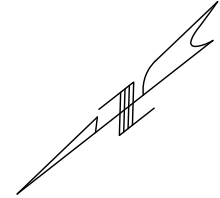
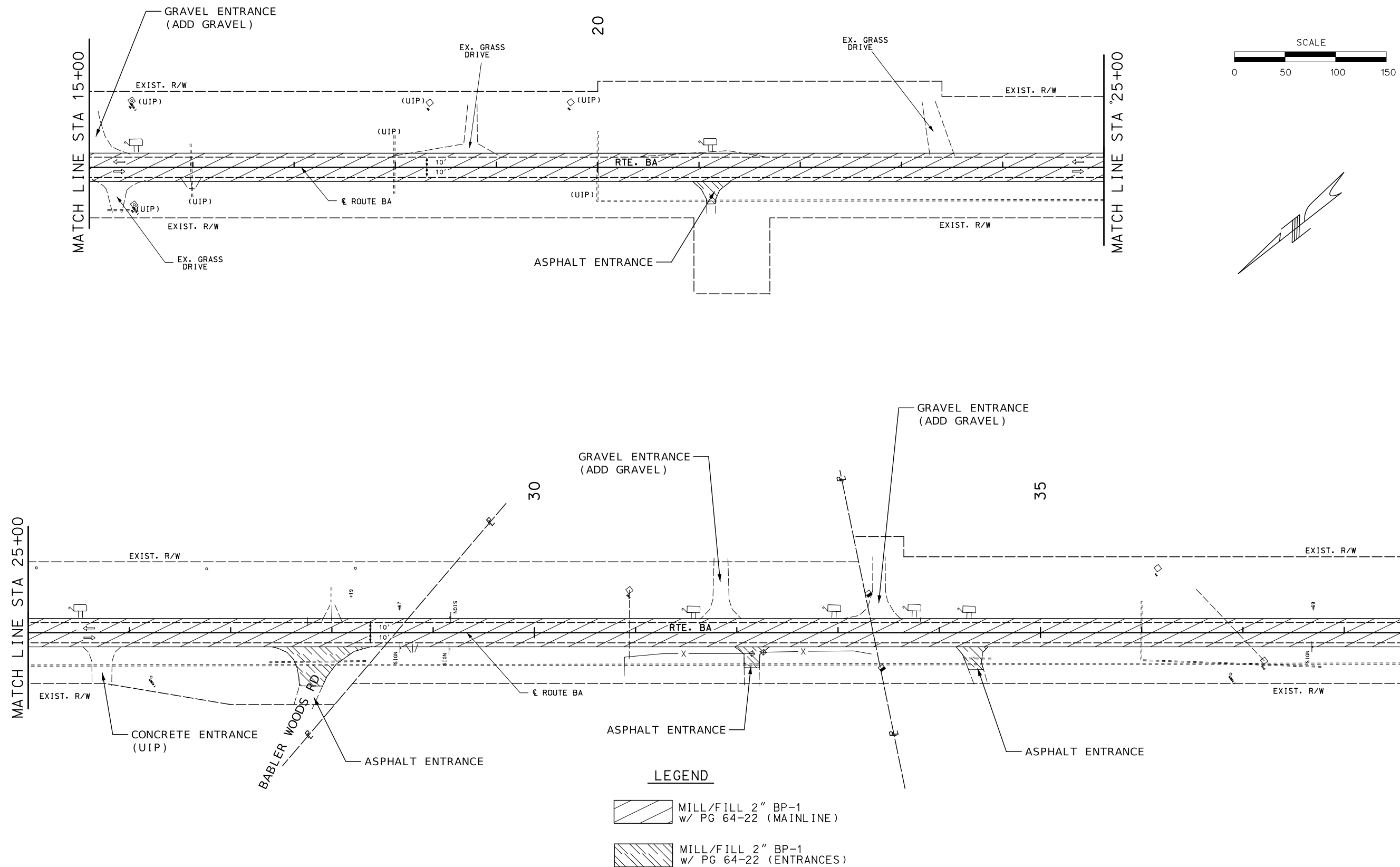
** ITEMS NOT INCLUDED IN TEMPORARY TRAFFIC CONTROL, LUMP SUM

SUMMARY OF QUANTITIES

SHEET 4 OF 4



DATE PREPARED	
10/7/2024	
ROUTE	STATE
BA	MO
DISTRICT	SHEET NO.
SL	03
COUNTY	
ST. LOUIS	
JOB NO.	
JSL0080	



08/12/2024 9:34:32 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/8/2024

ROUTE	STATE
BA	MO

DISTRICT	SHEET NO.
SL	05

COUNTY
ST. LOUIS

JOB NO.
JSL0080

CONTRACT ID.

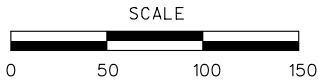
PROJECT NO.

BRIDGE NO.

[illegible]


 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1.888.ASK.MODOT / 1.888.275.6626

PLAN SHEETS

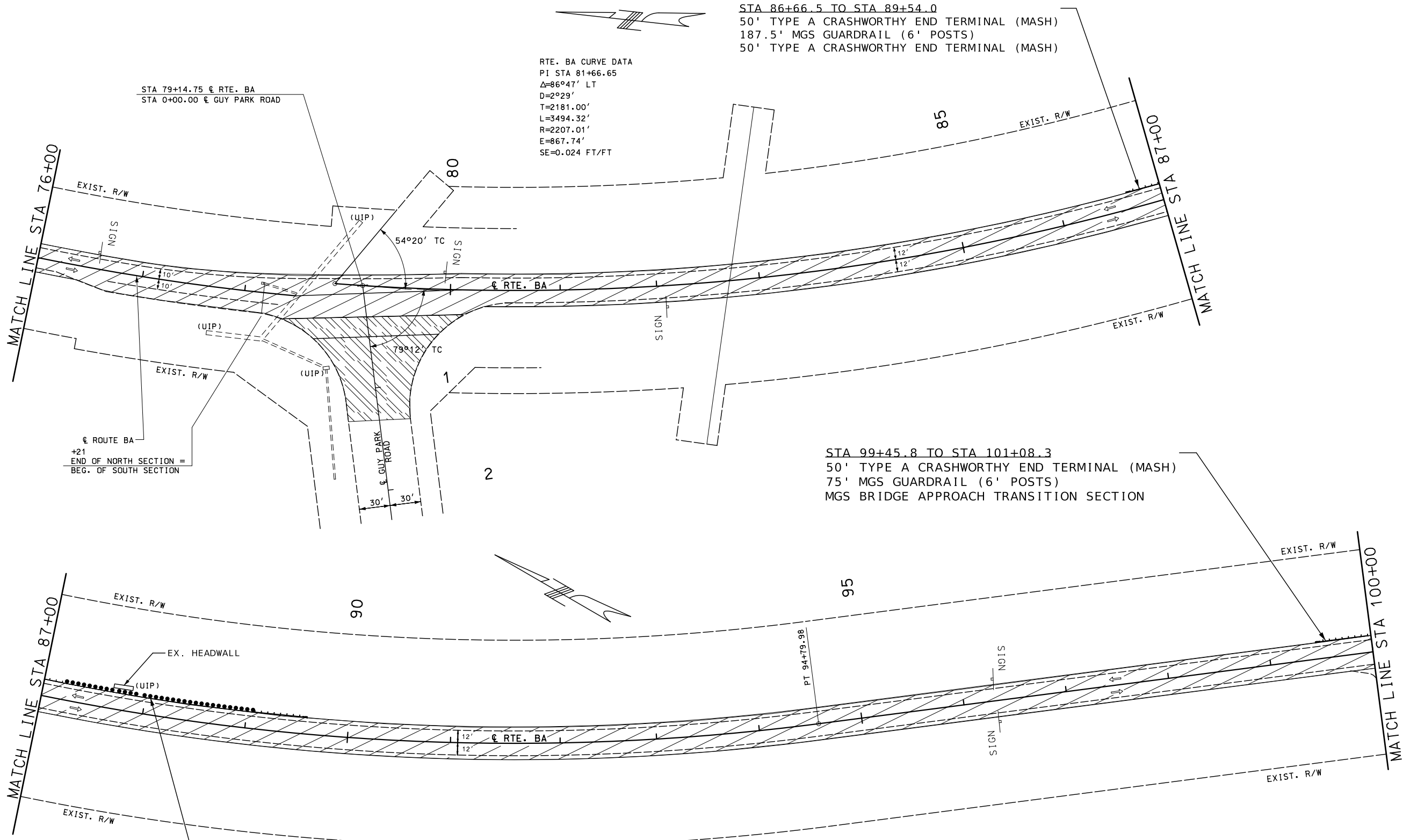


RTE. BA CURVE DATA
PI STA 47+18.46
 $\Delta=3^{\circ}30'$ RT
 $D=1^{\circ}$
 $T=174.59'$
 $L=350.00'$
 $R=5714.65'$
 $E=2.69'$

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

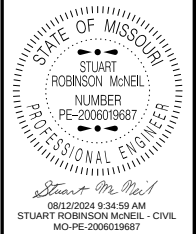
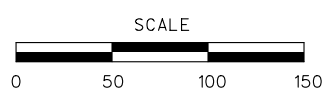
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PLAN SHEETS



STA 86+66.5 TO STA 89+54.0
50' TYPE A CRASHWORTHY END TERMINAL (MASH)
187.5' MGS GUARDRAIL (6' POSTS)
50' TYPE A CRASHWORTHY END TERMINAL (MASH)

- LEGEND
- MILL/FILL 2" BP-1
w/ PG 64-22 (MAINLINE)
 - MILL/FILL 2" BP-1
w/ PG 64-22 (ENTRANCES)

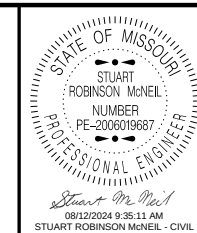
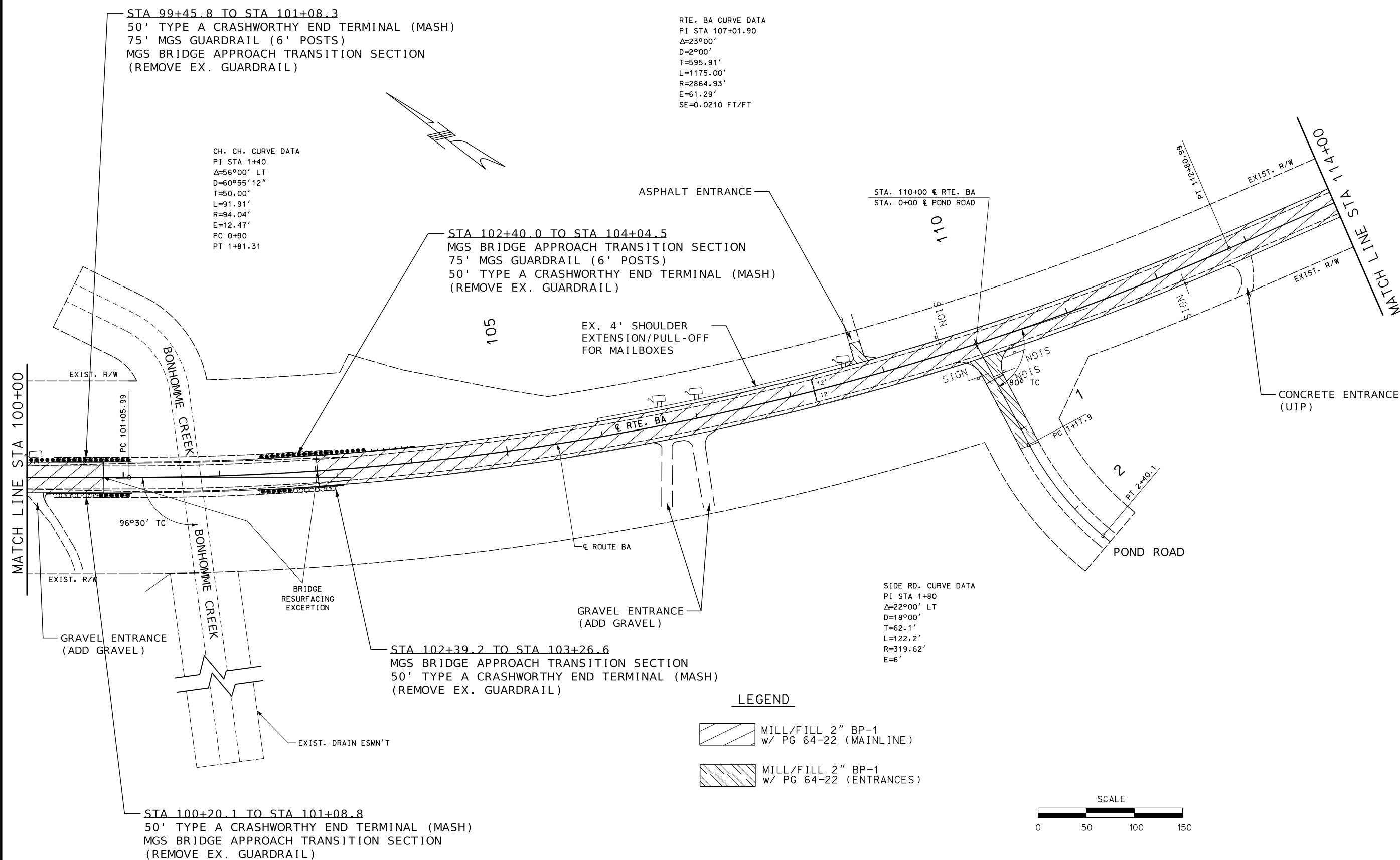


DATE PREPARED 8/8/2024	
ROUTE BA	STATE MO
DISTRICT SL	SHEET NO. 08
COUNTY ST. LOUIS	
JOB NO. JSL0080	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



MO-PE-2006019687
DATE PREPARED
8/8/2024

ROUTE	STATE
PA	MO

DA	MO
DISTRICT	SHEET NO.
SI	00

3L	09
COUNTY	
ST	LOUIS

ST. LOUIS
JOB NO.
161 0080

JSL0080
CONTRACT ID.

PROJECT NO.

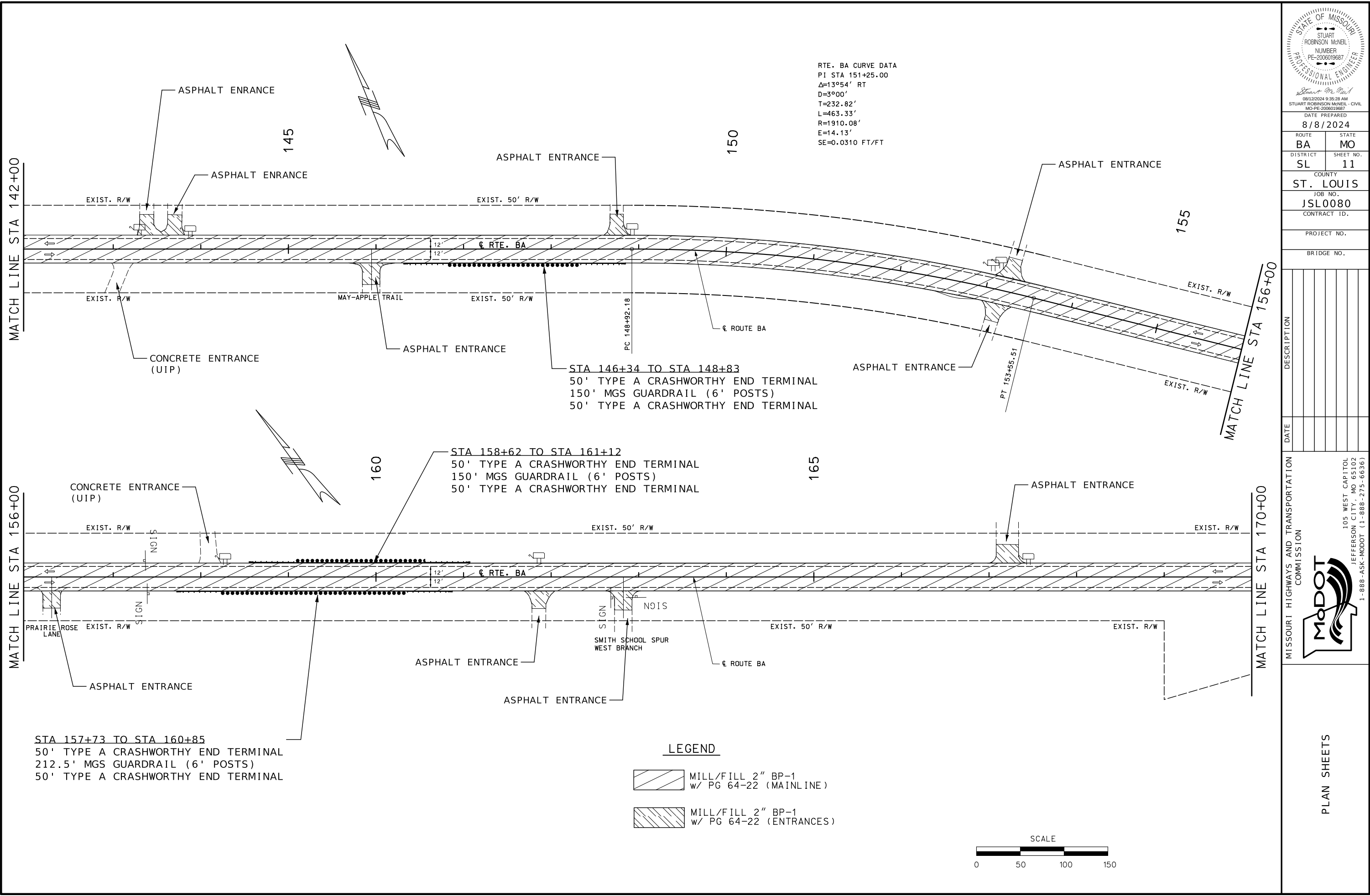
BRIDGE NO.

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

 105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1 888 ASK.MDOT (1.888.275.6636)

PLAN SHEETS



RTE. BA CURVE DATA
PI STA 151+25.00
Δ=13°54' RT
D=3°00'
T=232.82'
L=463.33'
R=1910.08'
E=14.13'
SE=0.0310 FT/FT

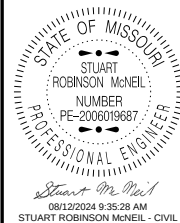
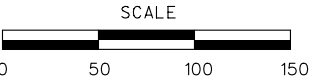
STA 146+34 TO STA 148+83
50' TYPE A CRASHWORTHY END TERMINAL
150' MGS GUARDRAIL (6' POSTS)
50' TYPE A CRASHWORTHY END TERMINAL

STA 158+62 TO STA 161+12
50' TYPE A CRASHWORTHY END TERMINAL
150' MGS GUARDRAIL (6' POSTS)
50' TYPE A CRASHWORTHY END TERMINAL

STA 157+73 TO STA 160+85
50' TYPE A CRASHWORTHY END TERMINAL
212.5' MGS GUARDRAIL (6' POSTS)
50' TYPE A CRASHWORTHY END TERMINAL

LEGEND

- MILL/FILL 2" BP-1 w/ PG 64-22 (MAINLINE)
- MILL/FILL 2" BP-1 w/ PG 64-22 (ENTRANCES)



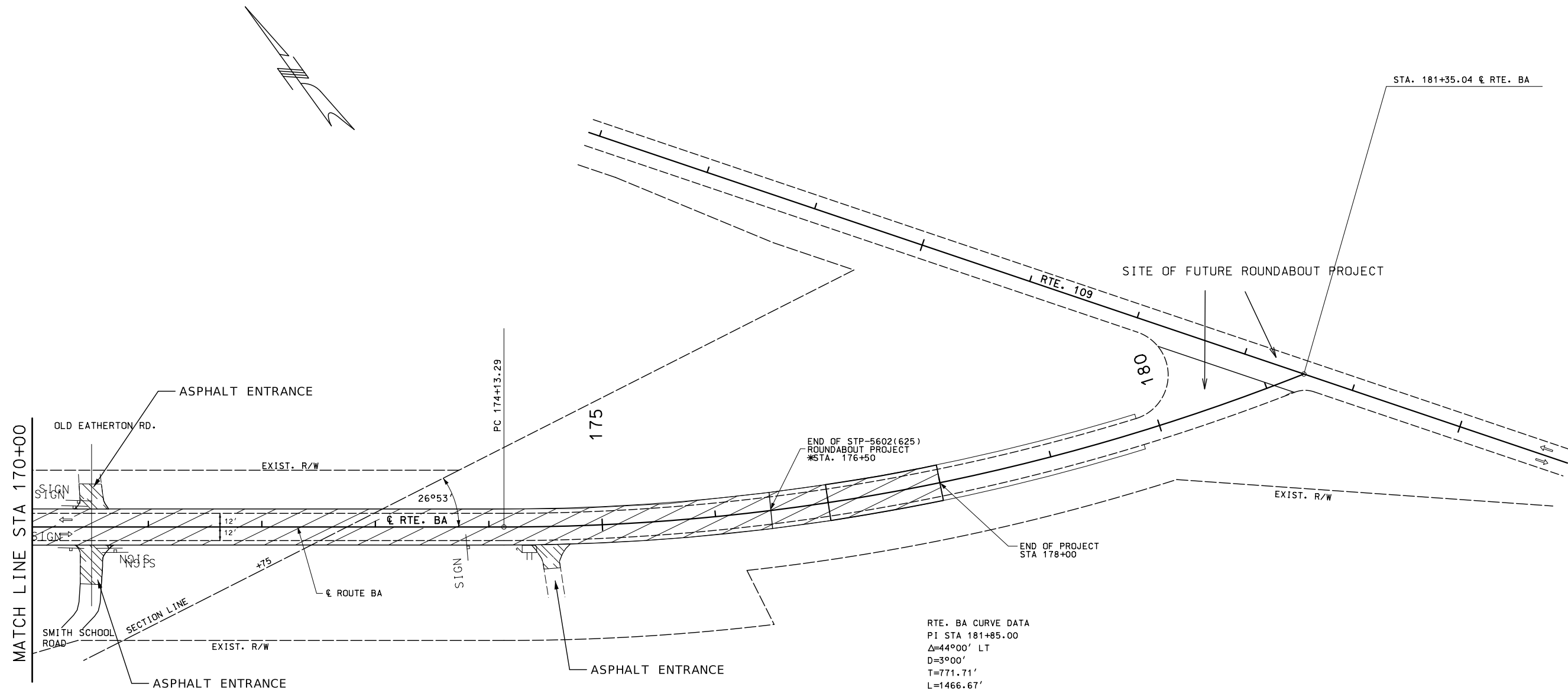
DATE PREPARED 8/8/2024	
ROUTE BA	STATE MO
DISTRICT SL	SHEET NO. 11
COUNTY ST. LOUIS	
JOB NO. JSL0080	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEETS

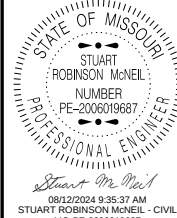
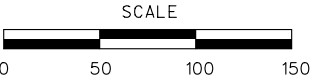


* LOCATION IS APPROXIMATE, BASED ON
STP-5602(625) DRAFT FINAL PLANS

LEGEND

- MILL/FILL 2" BP-1
w/ PG 64-22 (MAINLINE)
- MILL/FILL 2" BP-1
w/ PG 64-22 (ENTRANCES)

RTE. BA CURVE DATA
PI STA 181+85.00
 $\Delta=44^{\circ}00'$ LT
D=3°00'
T=771.71'
L=1466.67'
R=1910.08'
E=150.00'
SE=0.0310 FT/FT



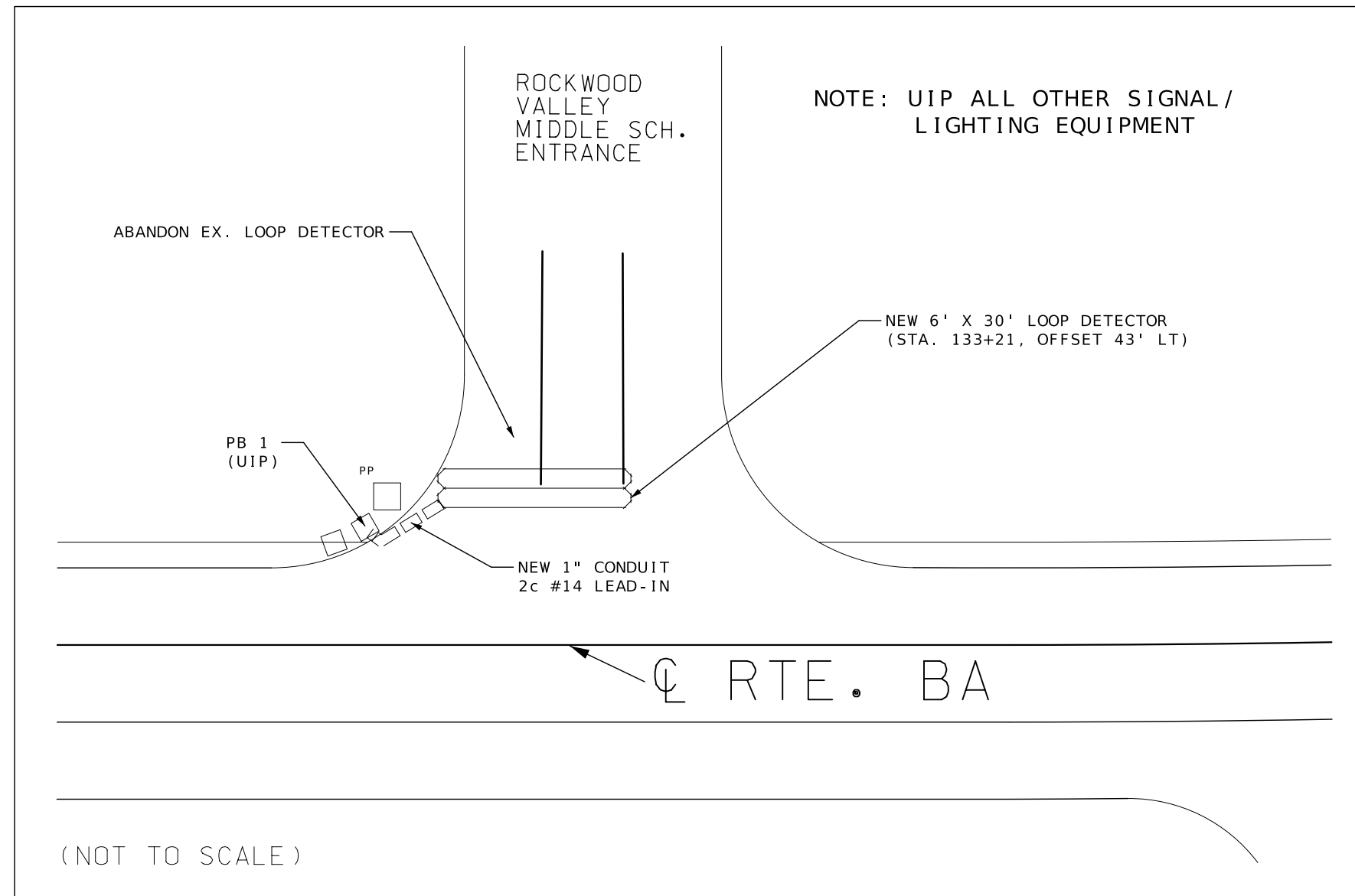
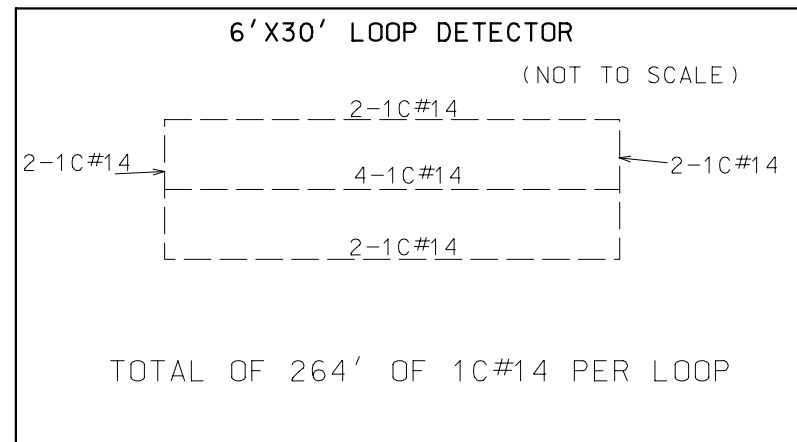
DATE PREPARED 8/8/2024	
ROUTE BA	STATE MO
DISTRICT SL	SHEET NO. 12
COUNTY ST. LOUIS	
JOB NO. JSL0080	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



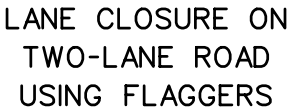
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



CONDUIT					CABLE								REMARKS		
FROM	TO	CTR TO CTR DISTANCE	PUSHED		FROM	TO	CTR TO CTR DISTANCE	LOOPS		CONTROL					
			3"	1"				INDUC-TION	LEAD-IN						
										1c-#14	2c-#14	2c-#16		7c-#16	2c-#12
EX PB 1	LOOP DET.	21.9		22	EX PB 1	LOOP DET.	21.9	308	47					6' X 30' LOOP	

SPECIAL SHEET FOR
LOOP DETECTION AT ROCKWOOD VALLEY MIDDLE SCHOOL
(FOR FLASHING BEACON ON S1-1 SIGN AT STA. 139+05)

		DATE PREPARED 8/8/2024	
		COUNTY ST. LOUIS	JOB NO. JSL0080
ROUTE BA		STATE MO	
DISTRICT SL		SHEET NO. 13	
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)		SPECIAL SHEET 1	



NOTES:

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

AFAD AND PSFD TYPICAL APPLICATIONS AND CRITERIA ARE LOCATED AT THE FOLLOWING: EPG 616.8.10A (TA-10A) LANE CLOSURE ON TWO-LANE HIGHWAYS USING AUTOMATED FLAGGER ASSISTANCE DEVICE WITH RED AND AMBER SIGNAL SYSTEM & EPG 616.8.10C (TA-10C) LANE CLOSURE ON TWO-LANE HIGHWAYS USING PORTABLE SIGNAL FLAGGING DEVICE.

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.

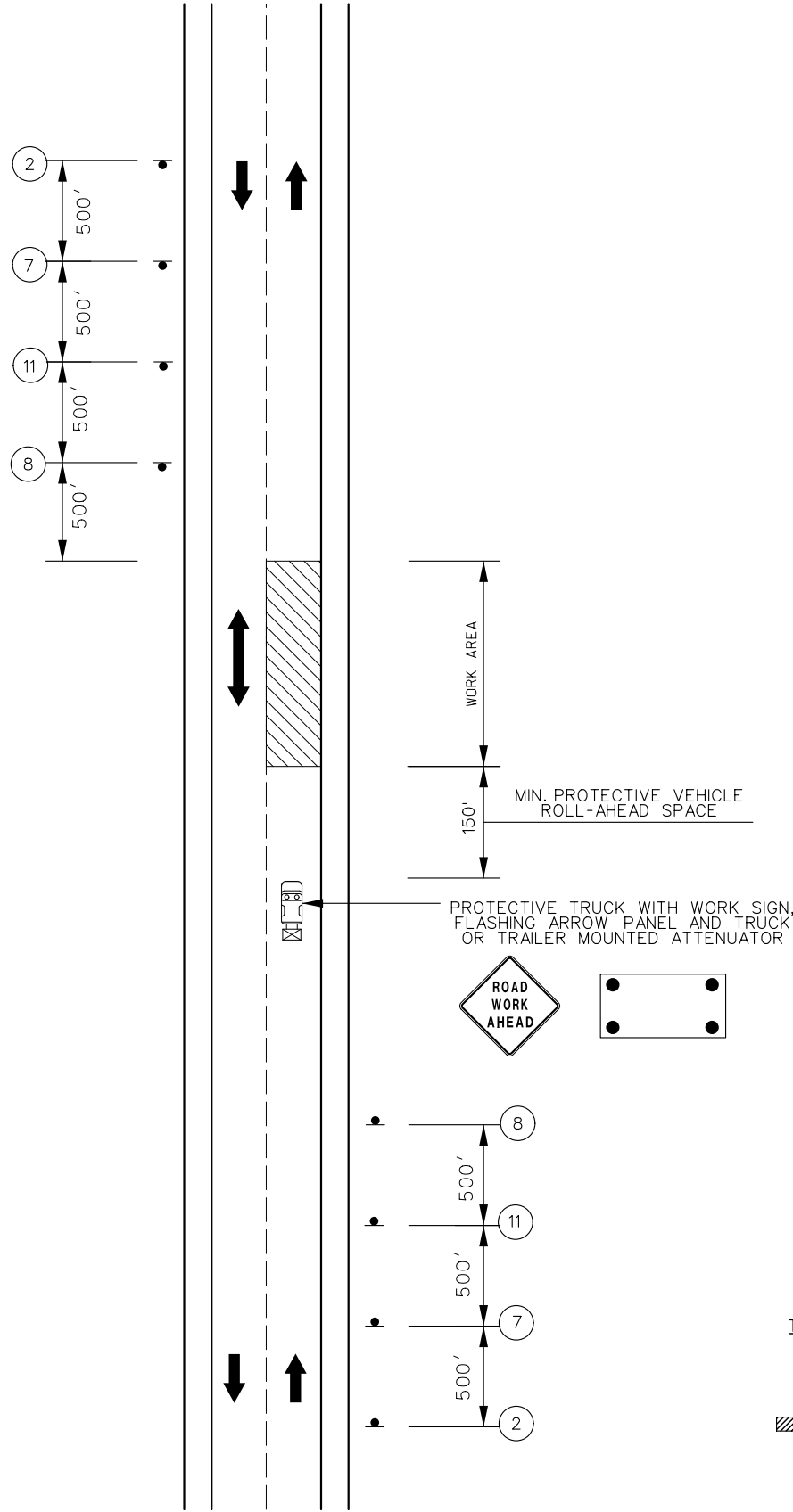
IF RUMBLE STRIPS ARE USED, REVIEW 616.6.87 RUMBLE STRIPS.

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

TRAFFIC CONTROL LEGEND

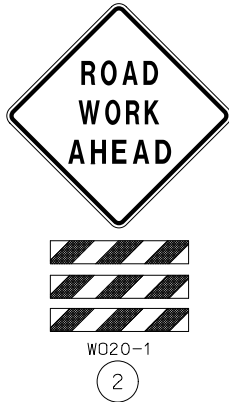
	SIGN (SINGLE SIDED)
	CHANNELIZER (TRIM-LINE)
	WORK AREA
	FLAGGER

				TRAFFIC CONTROL SHEET 1	
STUART ROBINSON MCNEIL NUMBER PE-2006019687 PROFESSIONAL ENGINEER		105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)			
08/12/2024 9:35:57 AM STUART ROBINSON MCNEIL - CIVIL MO-PE-2006019687					
DATE PREPARED 8/8/2024					
ROUTE BA		STATE MO			
DISTRICT SL		SHEET NO. 14			
COUNTY ST. LOUIS					
JOB NO. JSL0080					
CONTRACT ID.					
PROJECT NO.					
BRIDGE NO.					
DESCRIPTION					
DATE					
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION					



MOBILE OPERATION
ON TWO-LANE HIGHWAYS

NOT TO SCALE



NOTES:

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.

FLASHING ARROW PANELS SHALL BE OPERATED IN CAUTION MODE.

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

SEE EPG TYPICAL APPLICATION 616.10 LANE CLOSURE ON TWO-LANE HIGHWAYS USING FLAGGERS-DE/CM FOR FLAGGER LOCATIONS.

THE FLAGGER POSITION SHOULD BE LOCATED WHERE THEY WILL PROVIDE THE MOST VALUE TO THE MOTORIST AND THE WORK CREW.

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

VEHICLE HAZARD WARNING LIGHTS 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 LEGEND ON VEHICLE-MOUNTED SIGNS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.

IF RUMBLE STRIPS ARE USED, REVIEW 616.6.87 RUMBLE STRIPS.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- WORK AREA
- TMA (TRUCK MOUNTED ATTENUATOR)

STATE OF MISSOURI
STUART ROBINSON MCNEIL
NUMBER
PE-2008019687
PROFESSIONAL ENGINEER
08/12/2024 9:36:20 AM
STUART ROBINSON MCNEIL - CIVIL
MO-PE-2008019687

DATE PREPARED
8/8/2024

ROUTE
BA

DISTRICT
SL

STATE
MO

SHEET NO.
16

COUNTY
ST. LOUIS

JOB NO.
JSL0080

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 3

The diagram illustrates the layout of a single-lane advance warning system along a road. The road is represented by a vertical line with a dashed center line and solid edge lines. Arrows indicate traffic flow: a downward arrow on the left side and an upward arrow on the right side.

On the left side of the road, the following elements are shown from top to bottom:

- A rectangular panel with four black dots arranged in a 2x2 grid, labeled "FLASHING ARROW PANEL - CAUTION MODE".
- A diamond-shaped sign with the text "ONE LANE ROAD AHEAD", labeled "WO20-4 48'' x 48''".
- Two rectangular signs, each with the text "WET PAINT" and a black arrow pointing down and to the right, labeled "GO22-1 (2)".

On the right side of the road, the following elements are shown from top to bottom:

- A truck labeled "PAVEMENT MARKING EQUIPMENT" with an arrow pointing to it from the right.
- A truck labeled "WARNING TRUCK WITH WORK SIGNS, FLASHING ARROW PANEL AND OPTIONAL TRUCK OR TRAILER MOUNTED ATTENUATOR.(1)" with an arrow pointing to it from the right.
- A truck labeled "ADVANCE WARNING TRUCK WITH WORK SIGNS, FLASHING ARROW PANEL AND TRUCK OR TRAILER MOUNTED ATTENUATOR. (3)" with an arrow pointing to it from the right.

Vertical dimension lines indicate distances:

- A distance of "150' MIN." between the top of the "PAVEMENT MARKING EQUIPMENT" truck and the top of the "WARNING TRUCK".
- A distance of "150' MIN." between the top of the "WARNING TRUCK" and the top of the "ADVANCE WARNING TRUCK".

NOTES:

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

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

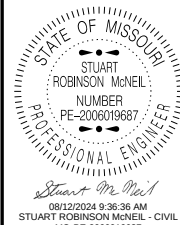
VEHICLE HAZARD WARNING LIGHTS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

(1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD IS MOUNTED ON THE PAVEMENT MARKING EQUIPMENT.

(2) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.

(3) ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL OR SPACING SHOWN, WHICHEVER IS GREATER.

NOT TO SCALE



DATE PREPARED

8/8/2024

ROUTE	STATE
BA	MO

DISTRICT	SHEET NO.
SL	18

COUNTY
ST. LOUIS

JOB NO.
JSL0080

CONTRACT ID.

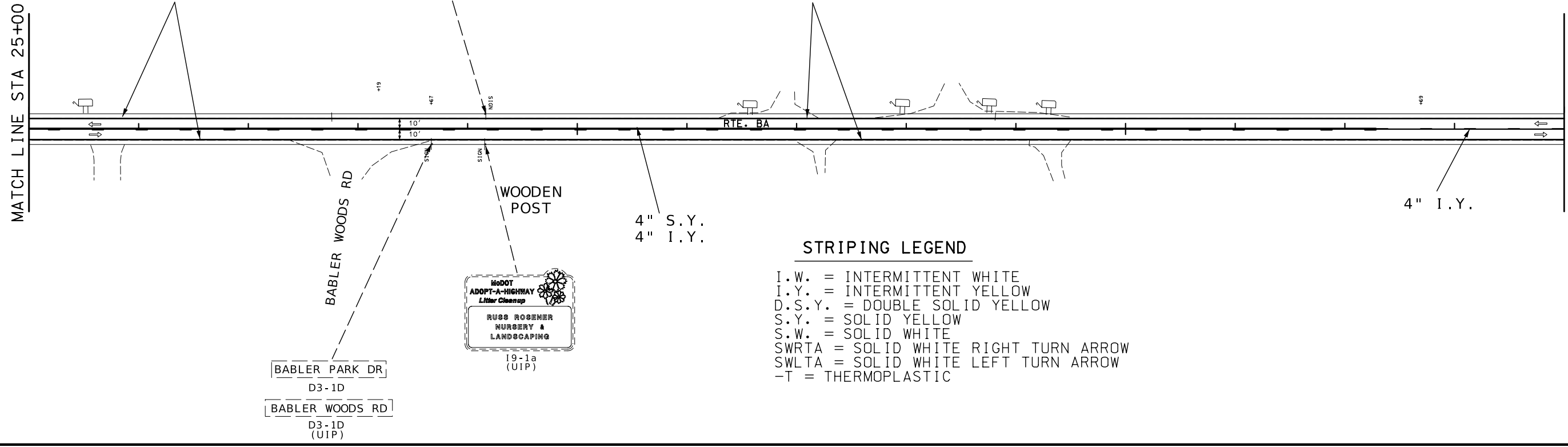
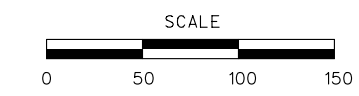
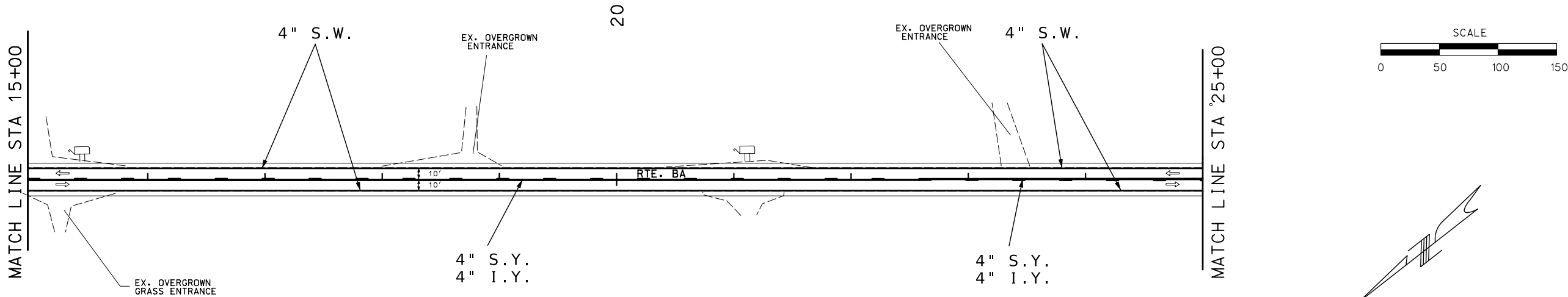
PROJECT NO.

BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

TRAFFIC CONTROL
SHEET 5



- STRIPING LEGEND**
- I.W. = INTERMITTENT WHITE
 - I.Y. = INTERMITTENT YELLOW
 - D.S.Y. = DOUBLE SOLID YELLOW
 - S.Y. = SOLID YELLOW
 - S.W. = SOLID WHITE
 - SWRTA = SOLID WHITE RIGHT TURN ARROW
 - SWLTA = SOLID WHITE LEFT TURN ARROW
 - T = THERMOPLASTIC

STATE OF MISSOURI

STUART ROBINSON MCNEIL

NUMBER PE-2006019687

PROFESSIONAL ENGINEER

08/12/2024 9:41:38 AM

STUART ROBINSON MCNEIL - CIVIL

MO-PE-2006019687

DATE PREPARED
8/8/2024

ROUTE BA

DISTRICT SL

STATE MO

SHEET NO. 20

COUNTY
ST. LOUIS

JOB NO.
JSL0080

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

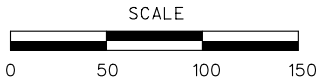
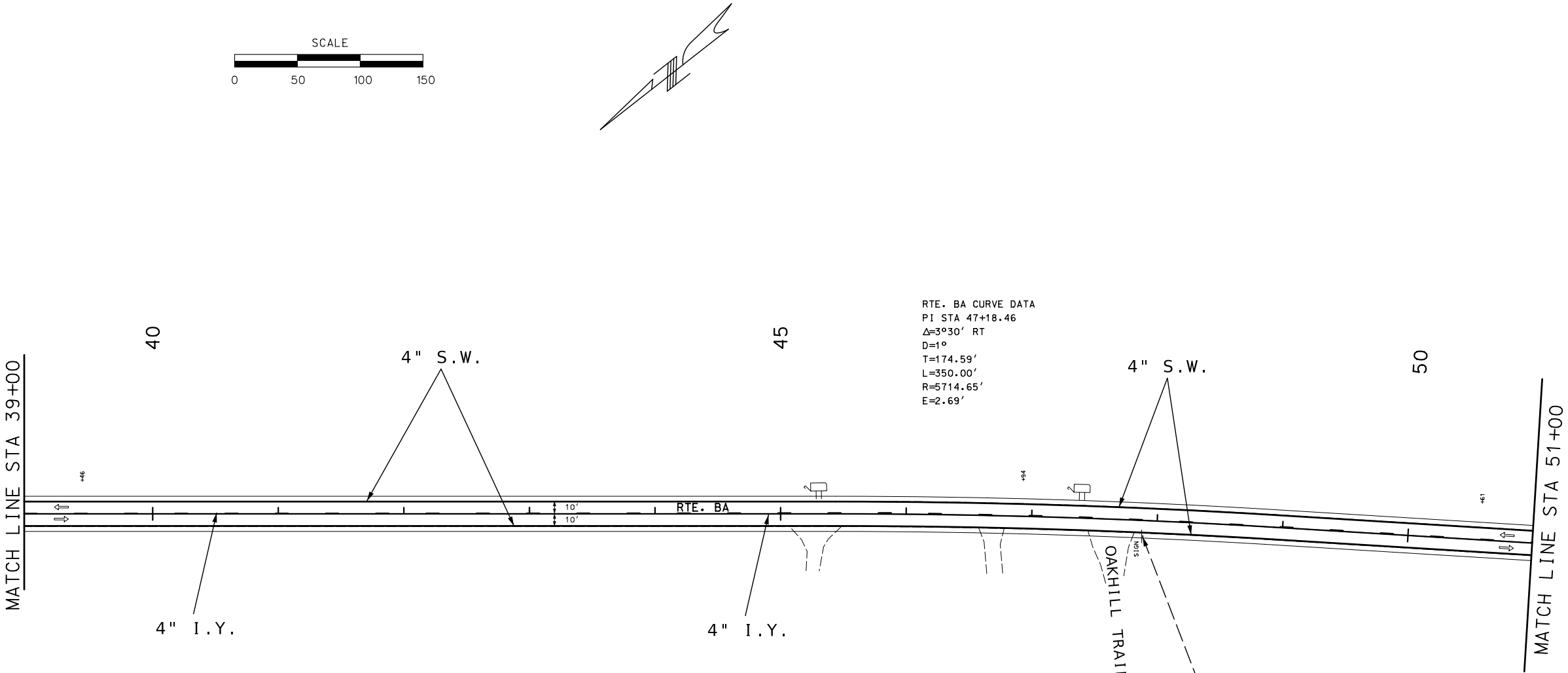
JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

MoDOT

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

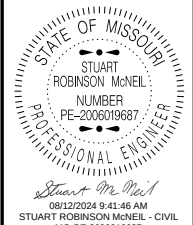
PAYEMENT MARKING AND SIGNING SHEETS



STRIPING LEGEND

- I.W. = INTERMITTENT WHITE
- I.Y. = INTERMITTENT YELLOW
- D.S.Y. = DOUBLE SOLID YELLOW
- S.Y. = SOLID YELLOW
- S.W. = SOLID WHITE
- SWRTA = SOLID WHITE RIGHT TURN ARROW
- SWLTA = SOLID WHITE LEFT TURN ARROW
- T = THERMOPLASTIC

RTE. BA CURVE DATA
PI STA 47+18.46
 $\Delta=3^{\circ}30'$ RT
D=1 $^{\circ}$
T=174.59'
L=350.00'
R=5714.65'
E=2.69'



DATE PREPARED 8/8/2024	
ROUTE BA	STATE MO
DISTRICT SL	SHEET NO. 21
COUNTY ST. LOUIS	
JOB NO. JSL0080	
CONTRACT ID.	

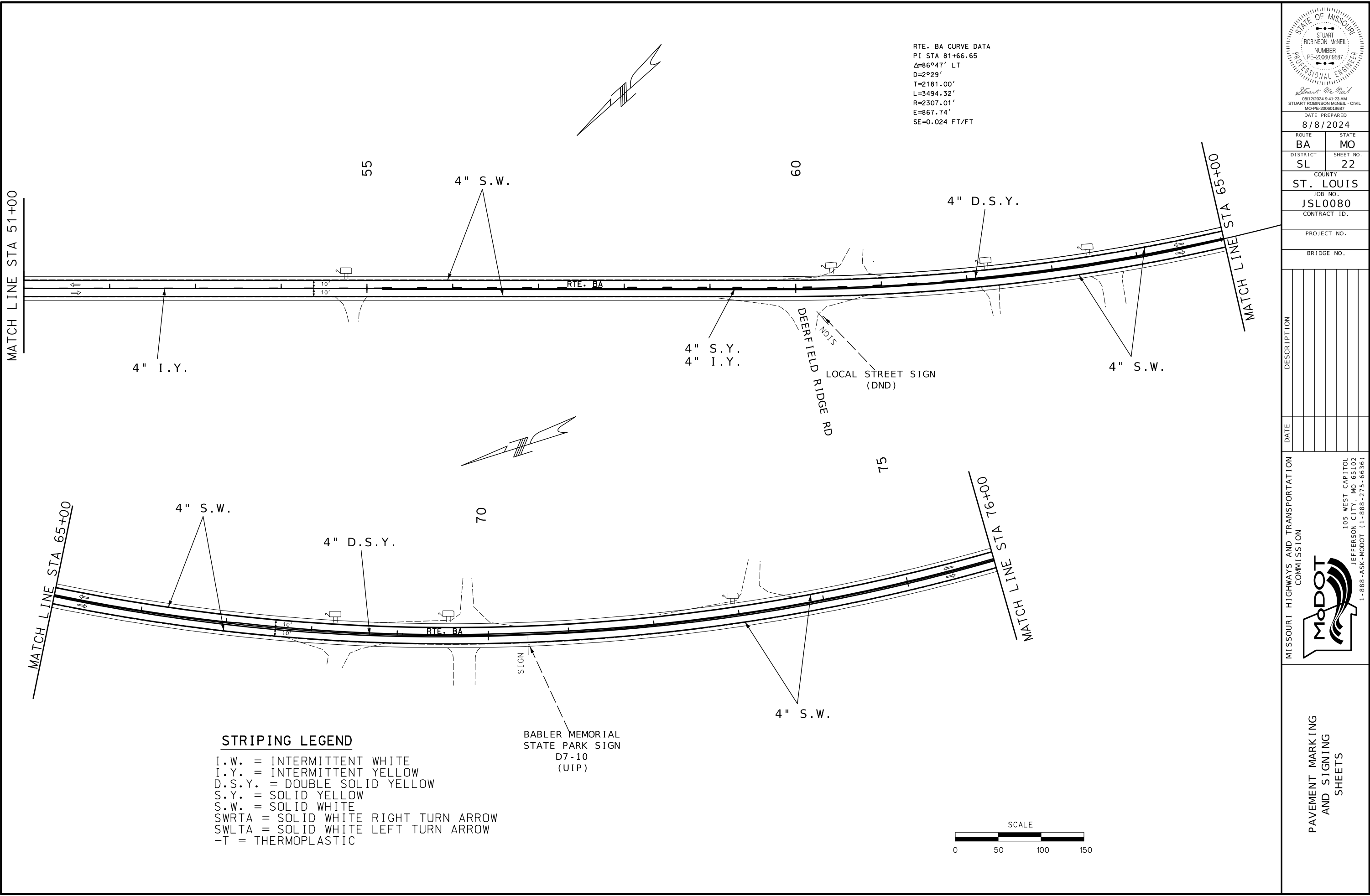
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PAVEMENT MARKING
AND SIGNING
SHEETS

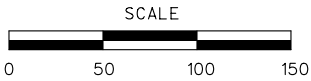


RTE. BA CURVE DATA
PI STA 81+66.65
 $\Delta=86^{\circ}47'$ LT
D=2929'
T=2181.00'
L=3494.32'
R=2307.01'
E=867.74'
SE=0.024 FT/FT

STRIPING LEGEND

I.W. = INTERMITTENT WHITE
I.Y. = INTERMITTENT YELLOW
D.S.Y. = DOUBLE SOLID YELLOW
S.Y. = SOLID YELLOW
S.W. = SOLID WHITE
SWRTA = SOLID WHITE RIGHT TURN ARROW
SWLTA = SOLID WHITE LEFT TURN ARROW
-T = THERMOPLASTIC

BABLER MEMORIAL
STATE PARK SIGN
D7-10
(UIP)



DATE PREPARED
8/8/2024

ROUTE STATE
BA MO
DISTRICT SHEET NO.
SL 22
COUNTY
ST. LOUIS
JOB NO.
JSL0080
CONTRACT ID.

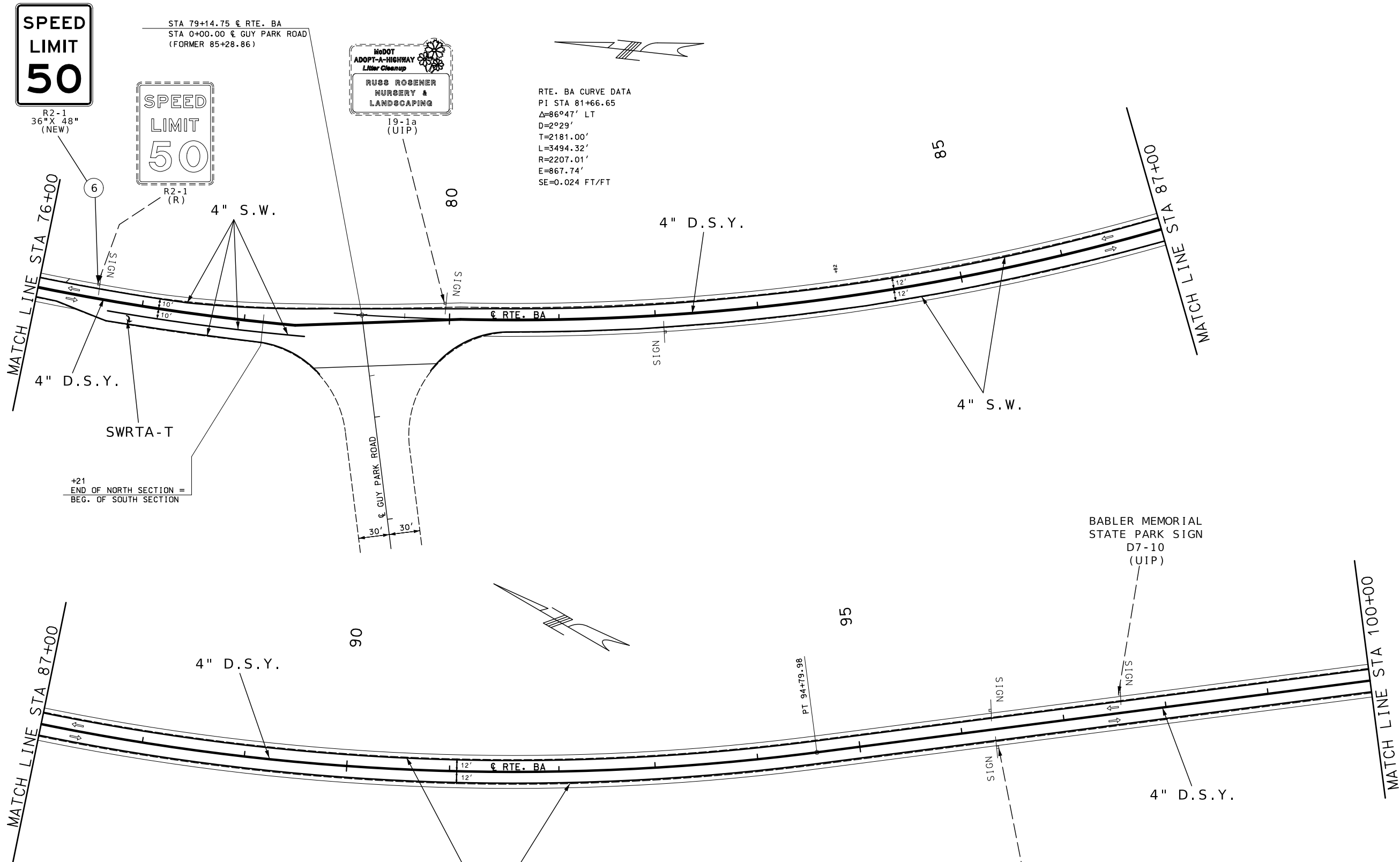
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

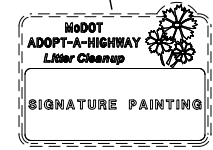
PAVEMENT MARKING
AND SIGNING
SHEETS



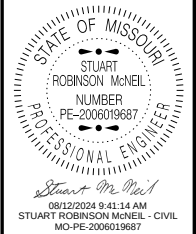
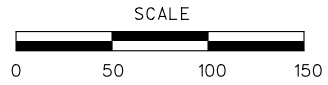
RTE. BA CURVE DATA
PI STA 81+66.65
 $\Delta=86^{\circ}47'$ LT
D=2181.00'
L=3494.32'
R=2207.01'
E=867.74'
SE=0.024 FT/FT

STRIPING LEGEND

- I.W. = INTERMITTENT WHITE
- I.Y. = INTERMITTENT YELLOW
- D.S.Y. = DOUBLE SOLID YELLOW
- S.Y. = SOLID YELLOW
- S.W. = SOLID WHITE
- SWRTA = SOLID WHITE RIGHT TURN ARROW
- SWLTA = SOLID WHITE LEFT TURN ARROW
- T = THERMOPLASTIC



19-1a
REMOVE AND RETURN
TO MoDOT MAINTENANCE
(EUREKA SHED)



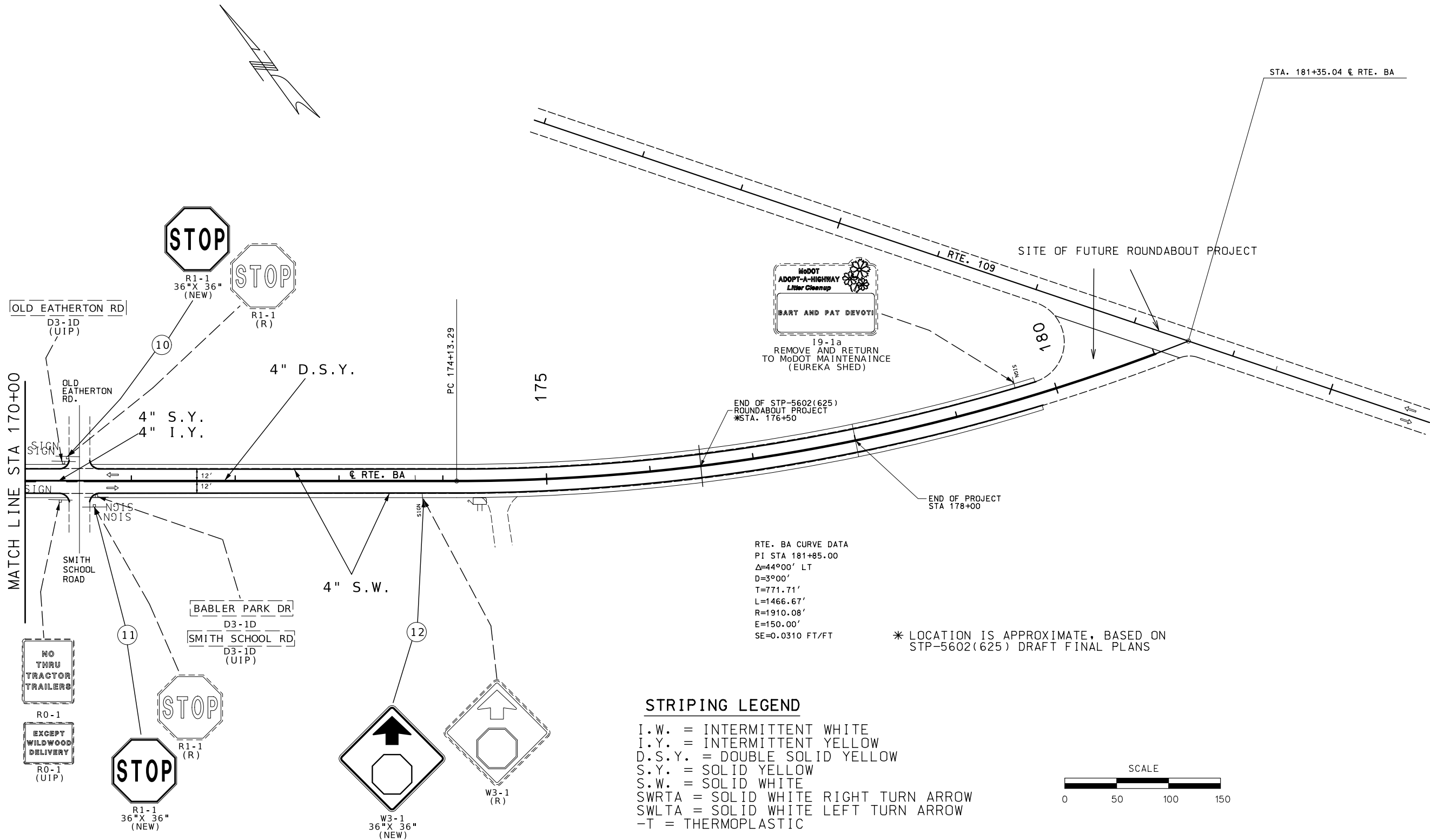
DATE PREPARED 8/8/2024	
ROUTE BA	STATE MO
DISTRICT SL	SHEET NO. 23
COUNTY ST. LOUIS	
JOB NO. JSL0080	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

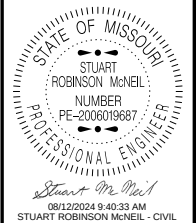
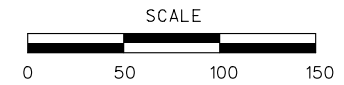
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

**PAYEMENT MARKING
AND SIGNING
SHEETS**



STRIPING LEGEND

I.W. = INTERMITTENT WHITE
 I.Y. = INTERMITTENT YELLOW
 D.S.Y. = DOUBLE SOLID YELLOW
 S.Y. = SOLID YELLOW
 S.W. = SOLID WHITE
 SWRTA = SOLID WHITE RIGHT TURN ARROW
 SWLTA = SOLID WHITE LEFT TURN ARROW
 -T = THERMOPLASTIC



DATE PREPARED 8/8/2024	
ROUTE BA	STATE MO
DISTRICT SL	SHEET NO. 27
COUNTY ST. LOUIS	
JOB NO. JSL0080	
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)

PAYEMENT MARKING AND SIGNING SHEETS

SIGNS

902 SIGNAL SIGNS TABULATED ON D-37A SHEET

SIGN NO.

SIGN SIZE

STATION

HORZ CLEAR IF NOT STD

LOCATION

SIGN DTL. SHT. NO.

CONCRETE FOOTINGS EMBEDDED

ITEM NO. 9031010
CY

STRUCTURAL STEEL POSTS *

POST DES NO.

POST NO. 1

POST NO. 2

POST NO. 3

LBS PER FT

TOTAL ITEM NO. 9031210
LBS

PIPE POSTS *

PIPE SIZE

POST NO. 1

POST NO. 2

LBS PER FT

TOTAL ITEM NO. 9031220
LBS

BACKING BARS **

2" X 3/8" BARS @ 2.55 LBS PER FT

NO. EACH

LGTH IN.

TOTAL LF

TOTAL LBS

U-CHANNEL POST

ITEM NO. 9031250A
LF

PERFORATED SQUARE STEEL TUBE

2 IN. POST

POST NO. 1

POST NO. 2

TOTAL ITEM NO. 9031270A
LF

ANCHORS

DRIVEN 12-GA. ITEM NO. 9031271A
EA

DRIVEN 7-GA. ITEM NO. 9031273A
EA

CONCRETE 7-GA. ITEM NO. 9031274
EA

2.5 IN. POST

POST NO. 1

POST NO. 2

TOTAL ITEM NO. 9031280
LF

2.25" INSERT (6 FT) ITEM NO. 9031272A
EA

ANCHORS

DRIVEN 7-GA. ITEM NO. 9031281A
EA

CONCRETE 7-GA. ITEM NO. 9031285
EA

BREAK-AWAY ASSEMBLY

ITEM NO. 9031241
EA

REMARKS AND OTHER REQUIRED ITEMS

DATE PREPARED

8/12/2024

ROUTE

BA

STATE

MO

DISTRICT

SL

SHEET NO.

28

COUNTY

ST. LOUIS

JOB NO.

JSL0080

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)

SUBTOTAL

TOTAL

TO BE USED ON REPLACED SIGNS AS NEEDED

ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE	WEIGHT		STUB LENGTH	FOOTING		CONCRETE C.Y.
(IN.)	LBS/FT	LBS/IN		DIA.	DEPTH	
2 1/2	5.79	0.48	4'- 3 1/2"	12"	4-6"	0.13
3	7.58	0.63	4'- 3 1/2"	12"	4-6"	0.13
4	10.79	0.90	5'- 3 1/2"	18"	5-6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST WEIGHT		STUB LENGTH	DIA.	FOOTING									
		LBS/FT	LBS/IN			LEVEL GROUND		6:1 GRADE		4:1 GRADE		3:1 OR 2:1 GRADE			
						DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17		
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54		
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78		
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45		
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52		
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65		

D-29

* ORANGE, YELLOW & YELLOW/GREEN