DESIGN DESIGNATION

A.A.D.T. - 2026 = 20705

A.A.D.T. - 2046 = 22650

D.H.V. = 10%

T = 5%

V (M.P.H.) = 60

D = 0.5

FUNCTIONAL CLASSIFICATION-PRINICIPAL ARTERIAL, EXPRESSWAY (EAST OF 270) (WEST OF 270)

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	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET		
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	-V-	
WOVEN WIRE	-X-	
GATE POST		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED

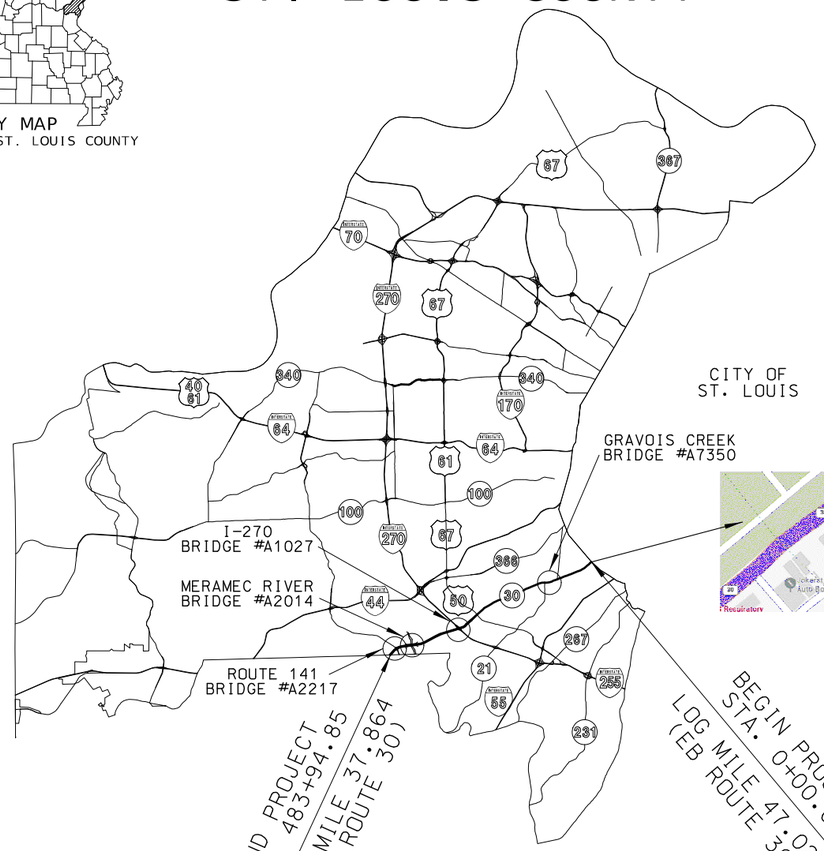
STATE HIGHWAY

T44N,R5E & R6E

ST. LOUIS COUNTY



KEY MAP
LOCATION OF ST. LOUIS COUNTY



ROUTE 30 RESURFACING
JSL0081 PROJECT LIMITS - 9.160 MILES

PAVEMENT RESURFACING, PAVEMENT REPAIRS, GUARDRAIL, BRIDGE DECK SEALING, PAVEMENT MARKING, RUMBLE STRIPS, SIGNING, AND SIGNAL IMPROVEMENTS

NOT TO SCALE

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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
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COORDINATE POINTS (CP)	44A-44B
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BRIDGE (K05871) (2 SHEETS)	1-2
BRIDGE (K07131) (2 SHEETS)	1-2

LENGTH OF PROJECT

*BEGINNING OF PROJECT

MO 30 E — STA. 0 + 00.00 BEGIN LOG 47.024

* END OF PROJECT

MO 30 E — STA. 483 + 94.85 END LOG 37.864

APPARENT LENGTH	48394.85	FEET

EQUATIONS:

STA. 32+43.52 BK = STA. 32+42.75 AH (+0.77')
STA. 101+71.37 BK = STA. 101+81.14 AH (-9.77')
STA. 127+13.90 BK = STA. 127+15.37 AH (-1.47')
STA. 149+11.39 BK = STA. 149+13.85 AH (-2.46')
STA. 201+69.01 BK = STA. 201+67.90 AH (+1.11')
STA. 225+29.03 BK = STA. 225+27.17 AH (+1.86')
STA. 253+31.03 BK = STA. 253+32.51 AH (-1.48')
STA. 281+38.84 BK = STA. 281+25.00 AH (+13.84')
STA. 305+26.61 BK = STA. 305+30.25 AH (-3.64')
STA. 321+16.94 BK = STA. 321+44.20 AH (-27.26')

SURFACE EXCEPTIONS:

STA. 139+00.00 TO STA. 145+80.00 (-680.00')
STA. 275+51.58 TO STA. 277+80.61 (-229.03')

BRIDGE EXCEPTIONS:

A7350 STA. 157+44.00 TO STA. 159+38.42 (-194.42')
A1027 STA. 325+31.79 TO STA. 327+96.02 (-264.23')
A2014 STA. 431+97.63 TO STA. 445+22.93 (-1325.30')
A2217 STA. 468+41.94 TO STA. 470+58.79 (-216.85')

TOTAL CORRECTIONS	-2938.33	FEET
NET LENGTH OF PROJECT	-45456.52	FEET
STATE LENGTH	8.61	MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0.75	ACRES

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/29/2025 10:05:36 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/26/2025

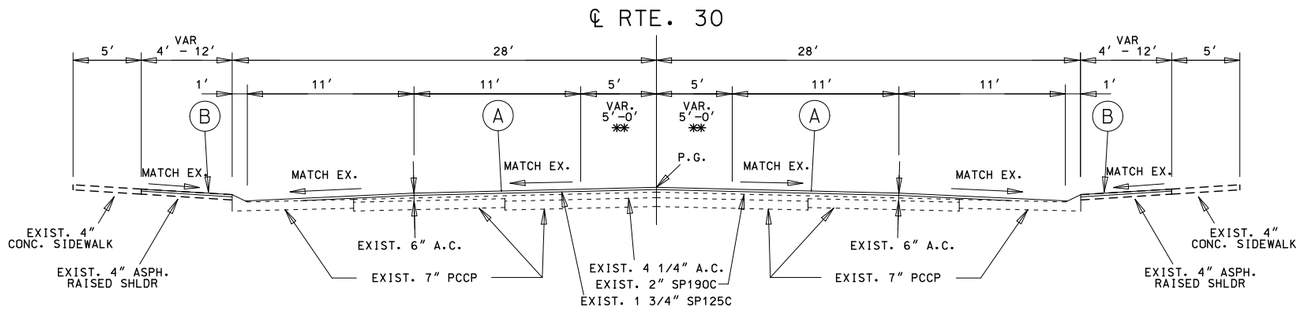
ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	1

COUNTY: ST LOUIS
JOB NO.: JSL0081
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)

TITLE SHEET



TYPICAL SECTION
STA 0+00 TO STA 65+00

LEGEND

(A) 1 3/4″ COLDMILL, TACK COAT, 1 3/4″ SP095CLP (PG70-22)

(B) 1 3/4″ COLDMILL, TACK COAT, 1 3/4″ BP-2 (PG64-22)

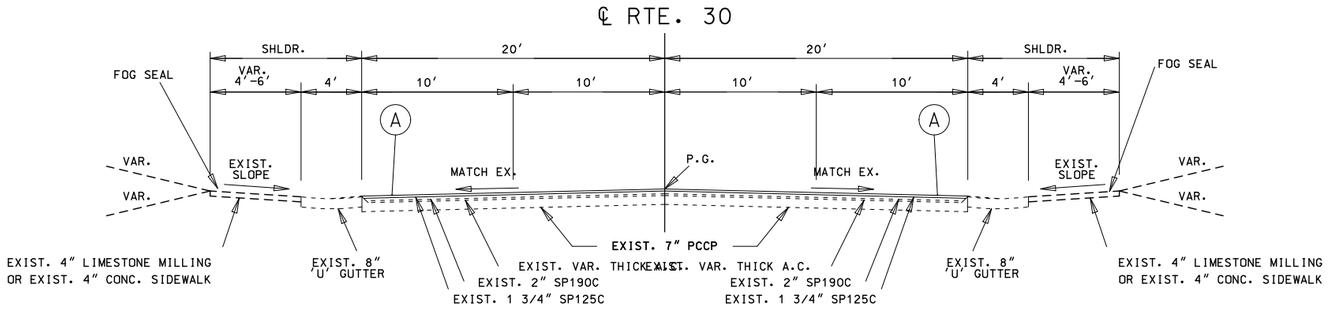
NOTES:

1) TYPICAL SECTIONS DO NOT REPRESENT INTERSECTIONS.

2) INTERSECTIONS HAVE VARIABLE WIDTH MEDIAN STRIPS AND TURN LANES. PLEASE REFER TO PLAN SHEETS.

3) EXPOSED CONCRETE MAINLINE & TURN LANES WILL NOT BE RESURFACED WITH ASPHALT AND SHALL BE USED IN PLACE AS NOTED ON PLANS.

THE FOLLOWING 4 INTERSECTIONS HAVE EXPOSED CONCRETE TURN LANES:
1) SEIBERT AVENUE
2) TESSON FERRY ROAD (RTE 21)
3) GRANT ROAD
4) LINDBERGH BLVD. (RTE 67)
5) SAPPINGTON BARRACKS ROAD
6) RAHNING ROAD



TYPICAL SECTION
STA 65+00 TO STA 284+63.26

NOT TO SCALE



TYPICAL EXIST. 4′ CONCRETE U-GUTTER
STA 55+10 TO STA 75+90
STA 117+77 TO STA 137+50
STA 149+20 TO STA 194+55
STA 212+00 TO STA 252+00

ASPHALT APPLICATION RATES:

SP095CLP (PG70-22) – 1.970 TONS/CY
BIT. BP-2 (PG64-22) – 1.980 TONS/CY
BIT. FOG SEAL – 0.20 GAL/SQYD
TACK COAT (MILLED SURF.) – 0.10 GAL/SQYD
TACK COAT (OVER EX. ASPH. SURF.) – 0.08 GAL/SQYD

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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 10:25:41 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/20/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 2
COUNTY: ST. LOUIS
JOB NO.: JSL0081
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

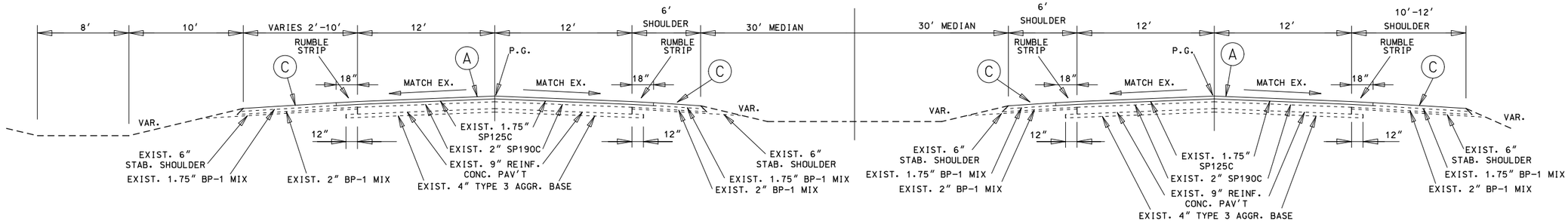
TYPICAL SHEET
SHEET 1 OF 4

LEGEND

(A) 1 3/4" COLDMILL, TACK COAT, 1 3/4" SP095CLP (PG70-22)

(C) BIT. FOG SEAL

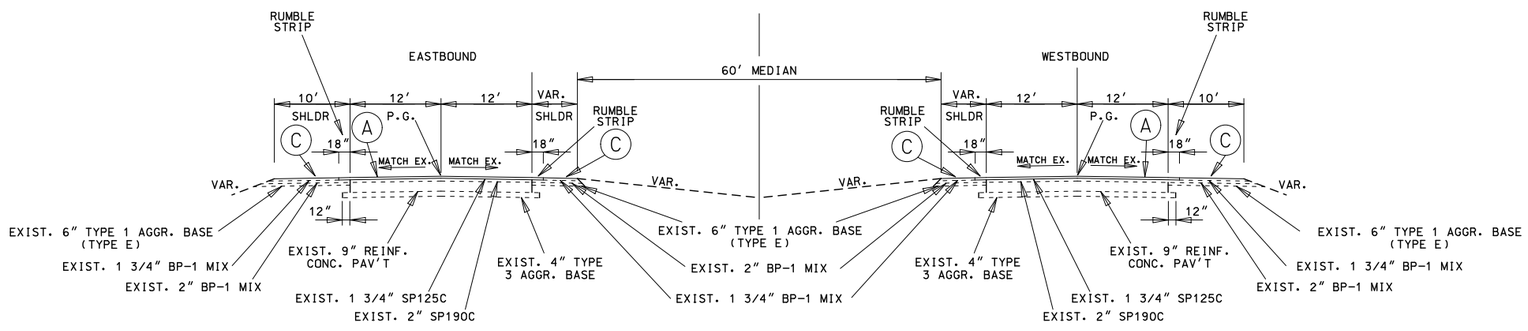
℄ MEDIAN & RTE. 30



STA 284+63.26 TO STA 321+48.74

NOTE:
SEE QUANTITY SHEET FOR RUMBLE STRIP LOCATIONS.

℄ RTE. 30



TYPICAL SECTION

STA 321+48.74 TO STA 324+00.00

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NOT TO SCALE

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 10:25:54 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/20/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	2

COUNTY: ST. LOUIS
JOB NO.: JSL0081
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

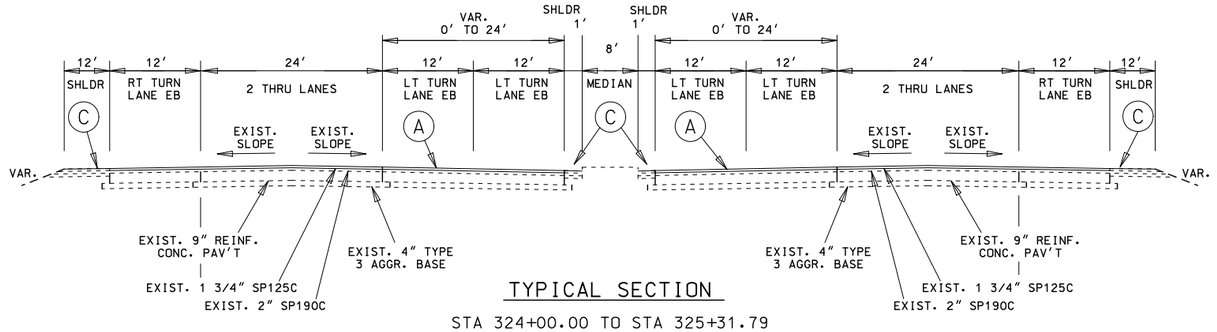
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TYPICAL SHEET
SHEET 2 OF 4

LEGEND

(A) 1 3/4" COLDMILL, TACK COAT, 1 3/4" SP095CLP (PG70-22)

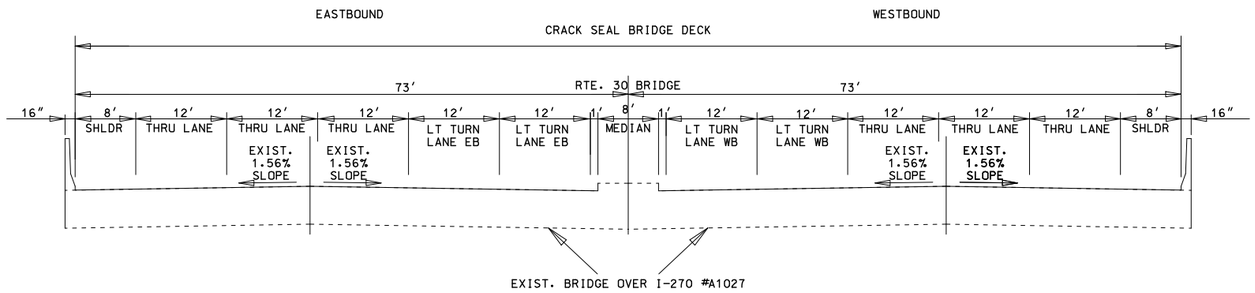
(C) BIT. FOG SEAL



TYPICAL SECTION

STA 324+00.00 TO STA 325+31.79

STA 327+96.02 TO STA 335+00.00



RTE. 30 BRIDGE TYPICAL SECTION

STA 325+31.79 TO STA 327+96.02

(CRACK SEAL DECK)

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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 10:26:03 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/20/2025

ROUTE	STATE
30	MO

DISTRICT	SHEET NO.
SL	2

COUNTY: ST. LOUIS

JOB NO.: JSL0081

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

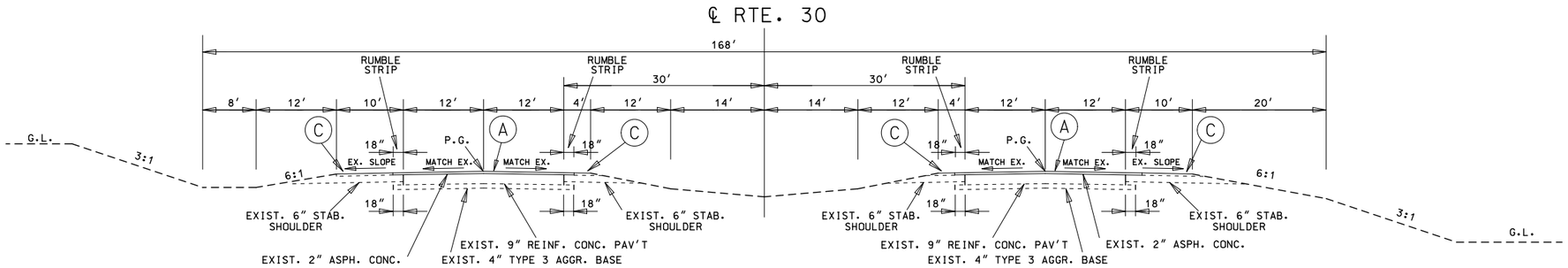
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TYPICAL SHEET
SHEET 3 OF 4

LEGEND

(A) 1 3/4" COLDMILL, TACK COAT, 1 3/4" SP095CLP (PG70-22)

(C) BIT. FOG SEAL

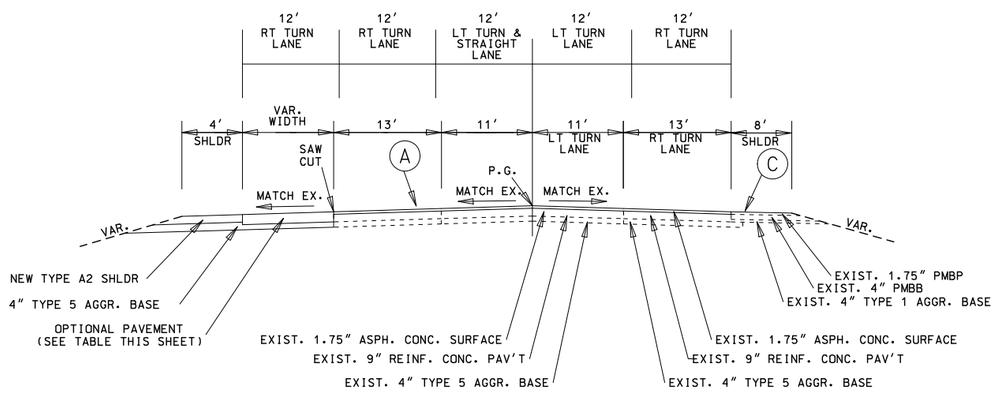


TYPICAL SECTION

STA 335+00.00 TO STA 483+94.85

NOTE:
SEE QUANTITY SHEET FOR RUMBLE STRIP LOCATIONS.

℄ WEBER HILL ROAD



WEBER HILL ROAD TYPICAL SECTION

STA. 877+83.09 TO STA. 881+35.29

NOT TO SCALE

OPTIONAL PAVEMENT			
LOCATION	BASE TYPE	HMA DESIGN	COMPOSITE PAVEMENT
WEBER HILL RD/ ROUTE 30	4" TYPE 5 AGGREGATE BASE	13.5" HMA 1.75" SP095CLP w/ PG 70-22 OVER 1.75" SP125C w/ PG 70-22 OVER 10" SP250C w/ PG 64-22	COMPOSITE PAVEMENT 1.75" SP095CLP w/ PG 70-22 OVER 10.0" PCCP 15 FT. JOINT SPACING, 1.5" DOWELS

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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/29/2025 10:05:55 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/26/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

TYPICAL SHEET
SHEET 4 OF 4

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM

PLAN SHEET NO.	STATION	STATION	RDWY	LF	SF	EA	DESCRIPTION
4-5	12+56.57	14+67.36	30	422			CONC. CURB AROUND MEDIAN STRIP
4-5	12+56.57	14+67.36	30		1017.7		ASPH. INSIDE MEDIAN STRIP
7	41+15.00	43+15.00	30		134.4		CONC. SIDEWALK IN ASPH. RAISED SHOULDER
9	67+75.81	67+87.10	30		122.0		CURB RAMP @ WEBER RD
10	83+06.44		30			1	LIGHT POLE @ MACKENZIE RD
11	90+44	90+69	30	25			EX. CONCRETE BARRIER NOSE
12	102+77	103+02	30	25			EX. CONCRETE BARRIER NOSE
13	121+63.35	122+65.67	30		14		TRUNCATED DOMES @ VALCOUR AVE
14	121+10.66	122+68.07	30		130		SIDEWALK @ VALCOUR AVE
20	207+83	208+19	30	36			CONCRETE MEDIAN STRIP
28	315+02.92	315+72.14	30		206		ISLANDS @ LANDMARK DR.
30	329+00	336+00	30	921			EAST COMMUTER LOT CURB
30	877+83.09	881+35.29	WEBER HILL RD		1983.2		EX. ASPH. PVMT & SHLDR WEBER HILL RD
4-42	VAR.	VAR.	30			16	INLET TOP
4-42	VAR.	VAR.	30			17	CWET (10 EA.) & END ANCHOR (7 EA.)
4-42	VAR.	VAR.	30			343	SIGNS
4-42	VAR.	VAR.	30			71	SIGN POSTS
4-42	VAR.	VAR.	30	3503			SAW CUTS
4-42	VAR.	VAR.	30	375			CURB AND GUTTER
4-42	VAR.	VAR.	30	292			U GUTTER
4-42	VAR.	VAR.	30			103	IN-PAVEMENT WIRELESS DETECTION SENSORS (SEE JSP)
4-42	VAR.	VAR.	30			7	IN-PAVEMENT WIRELESS DETECTION REPEATERS (SEE JSP)

* ALL VERTICAL SAW CUTS SHALL BE CONSIDERED INCIDENTAL TO REMOVALS OF IMPROVEMENTS

POTHOLING UTILITY FACILITIES

PLAN SHEET NO.	RDWY	STATION	OFFSET	LOC	POTHOLING EA.	REMARKS
78	30	122+19.0	30.5' LT	VALCOUR	1	
78	30	122+59.3	40.1' RT	VALCOUR	1	
78	30	122+16.3	33.7' RT	VALCOUR	1	
78	30	121+70.1	39.9' RT	VALCOUR	1	
78	30	121+59.6	40.3' LT	VALCOUR	1	
				SUBTOTAL	5	
				PAY TOTALS	5	

PAVEMENT MARKING REMOVAL WITHIN CONCRETE SURFACES - 1 LUMP SUM

TEMPORARY PAVEMENT MARKING PAINT - 1 LUMP SUM

MOBILIZATION - 1 LUMP SUM

CONTRACTOR FURNISHED SURVEYING AND STAKING - 1 LUMP SUM

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM

PLAN SHEET NO.	STATION	STATION	RDWY	LF	SF	EA	DESCRIPTION
5	15+37.4		30			1	POWER SUPPLY @ SEIBERT AVE
5	VAR.		30			3	VIDEO CAMERAS @SEIBERT AVE
5	VAR.		30			6	SIGNAL SIGNS @ SEIBERT AVE
5	19+57.4		30			1	CONTROLLER @ HEEGE RD
5	19+59.5		30			1	POWER SUPPLY @ HEEGE RD
5	VAR.		30			3	VIDEO CAMERAS @ HEEGE RD
5	VAR.		30			9	SIGNAL SIGNS @ HEEGE RD
8	57+61.4		30			1	POWER SUPPLY @ WEBER RD
8	VAR.		30			4	VIDEO CAMERAS @ WEBER RD
8	VAR.		30			6	SIGNAL SIGNS @ WEBER RD
10	87+07.4		30			1	POWER SUPPLY @ MACKENZIE RD
10	VAR.		30			4	MAST ARMS @ MACKENZIE RD (UIP SG POSTS/BASES)
10	VAR.		30			4	VIDEO CAMERAS @ MACKENZIE RD
10	VAR.		30			8	SIGNAL SIGNS @ MACKENZIE RD
12	112+99.1		30			1	CABINET/CONTROLLER @ ROUTE 21
12	113+02.5		30			1	POWER SUPPLY @ ROUTE 21
12	VAR.		30			4	VIDEO CAMERAS @ ROUTE 21
12	VAR.		30			5	SIGNAL SIGNS @ ROUTE 21
13	121+70.14		30			1	SIGNAL POST @ VALCOUR AVE
13	121+83.33		30			1	SIGNAL POST @ VALCOUR AVE
13	122+19.21		30			1	SIGNAL POST @ VALCOUR AVE
13	122+21.21		30			1	SIGNAL POST @ VALCOUR AVE
13	121+84.82		30			1	PULL BOX @ VALCOUR AVE
13	122+19.98		30			1	PULL BOX @ VALCOUR AVE
13	122+19.57		30			1	PULL BOX @ VALCOUR AVE
13	121+61.21		30			1	PULL BOX @ VALCOUR AVE
13	VAR.		30			10	SIGNAL SIGNS @ VALCOUR AVE
15	142+42.7		30			1	CABINET/CONTROLLER @ LACLEDE STATION RD
15	142+55.5		30			1	POWER SUPPLY @ LACLEDE STATION RD
15	VAR.		30			3	VIDEO CAMERAS @ LACLEDE STATION RD
15	VAR.		30			8	SIGNAL SIGNS @LACLEDE STATION RD
16	157+19.6		30			1	CONTROLLER @ GRANT RD
16	VAR.		30			4	VIDEO CAMERAS @ GRANT RD
16	VAR.		30			12	SIGNAL SIGNS @ GRANT RD
17	170+49.9		30			1	CABINET/CONTROLLER @ MUSICK AVE
17	VAR.		30			3	VIDEO CAMERAS @ MUSICK AVE
17	VAR.		30			4	SIGNAL SIGNS @ MUSICK AVE
19	200+26.2		30			1	CABINET/CONTROLLER @ BAPTIST CHURCH RD
19	200+08.8		30			1	POWER SUPPLY @ BAPTIST CHURCH RD
19	VAR.		30			3	VIDEO CAMERAS @ BAPTIST CHURCH RD
19	VAR.		30			7	SIGNAL SIGNS @ BAPTIST CHURCH RD
20	204+33.8		30			1	CABINET/CONTROLLER @ EDDIE AND PARK RD
20	204+26.9		30			1	POWER SUPPLY @ EDDIE AND PARK RD
20	VAR.		30			3	VIDEO CAMERAS @ EDDIE AND PARK RD
20	VAR.		30			6	SIGNAL SIGNS @ EDDIE AND PARK RD
24	VAR.		30			4	VIDEO CAMERAS @ SAPPINGTON RD
24	VAR.		30			8	SIGNAL SIGNS @ SAPPINGTON RD
27	294+61.1		30			1	CABINET/CONTROLLER @ GEYER RD
27	294+25.4		30			1	POWER SUPPLY @ GEYER RD
27	VAR.		30			4	VIDEO CAMERAS @ GEYER RD
27	VAR.		30			8	SIGNAL SIGNS @ GEYER RD
29	UNKNOWN		30			1	POWER SUPPLY @ I-270 NORTHBOUND
29	VAR.		30			1	SIGNAL SIGNS @ I-270 NORTHBOUND
30	329+56.7		30			1	CABINET @ I-270 SOUTHBOUND
30	VAR.		30			3	SIGNAL SIGNS @ I-270 SOUTHBOUND
30	332+20		30			1	CABINET/CONTROLLER @ WEBER HILL RD
30	VAR.		30			6	SIGNAL SIGNS @ WEBER HILL RD
34	382+20.66		30			1	POWER SUPPLY @ RAHNING RD
34	VAR.		30			12	SIGNAL SIGNS @ RAHNING RD
105	518+91.9		30			1	CONTROLLER @ GRAVOIS BLUFFS BLVD
105	VAR.		30			8	VIDEO CAMERAS @ GRAVOIS BLUFFS BLVD
105	VAR.		30			16	SIGNAL SIGNS @ GRAVOIS BLUFFS BLVD
				PAY TOTAL	1 LUMP SUM		

SUMMARY OF QUANTITIES
SHEET 1 OF 12

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 3:33:14 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/26/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

PAVEMENT (1 OF 2)

PLAN SHEET NO.	STATION	STATION	RDWY	LOCATION	AREA SHLDR S.F.	AREA MAINLINE S.F.	AREA SHLDR S.Y.	AREA MAINLINE S.Y.	3" OR LESS COLDMILL S.Y.	1 3/4" BIT. PAVEMENT SP095CLP PG 70-22 (1.97 TONS/CY) TON	BIT. FOG SEAL (0.20/CY) GAL	TACK COAT (.10) GAL	REMARKS
4	0+00.00	12+75.00	30	EB & WB	0.0	71838.8	0.0	7982.1	7982.1	764.4	0.0	798.2	MAINLINE
5	12+75.00	25+50.00	30	EB & WB	0.0	73123.4	0.0	8124.8	8124.8	778.1	0.0	812.5	MAINLINE
6	25+50.00	38+24.23	30	EB & WB	0.0	73244.8	0.0	8138.3	8138.3	779.4	0.0	813.8	MAINLINE
7	38+24.23	50+99.23	30	EB & WB	0.0	74799.4	0.0	8311.0	8311.0	795.9	0.0	831.1	MAINLINE
8	50+99.23	63+74.23	30	EB & WB	0.0	77750.2	0.0	8638.9	8638.9	827.3	0.0	863.9	MAINLINE
9	63+74.23	76+49.23	30	EB & WB	0.0	62370.6	0.0	6930.1	6930.1	663.7	0.0	693.0	MAINLINE
10	76+49.23	89+24.23	30	EB & WB	0.0	84349.5	0.0	9372.2	9372.2	897.5	0.0	937.2	MAINLINE
11	89+24.23	102+09.00	30	EB & WB	0.0	94412.1	0.0	10490.2	10490.2	1004.6	0.0	1049.0	MAINLINE
12	102+09.00	114+84.00	30	EB & WB	0.0	93245.4	0.0	10360.6	10360.6	992.2	0.0	1036.1	MAINLINE
13	114+84.00	127+60.47	30	EB & WB	4143.8	67385.6	460.4	7487.3	7487.3	717.0	92.1	748.7	MAINLINE & SHLDR
14	127+60.47	140+35.47	30	EB & WB	0.0	50385.1	0.0	5598.3	5598.3	536.1	0.0	559.8	MAINLINE
15	140+35.47	153+12.93	30	EB & WB	0.0	32323.6	0.0	3591.5	3591.5	343.9	0.0	359.2	MAINLINE
16	153+12.93	165+87.93	30	EB & WB	0.0	56881.3	0.0	6320.1	6320.1	605.2	0.0	632.0	MAINLINE
17	165+87.93	178+62.93	30	EB & WB	0.0	59577.7	0.0	6619.7	6619.7	633.9	0.0	662.0	MAINLINE
18	178+62.93	191+37.93	30	EB & WB	0.0	51144.3	0.0	5682.7	5682.7	544.2	0.0	568.3	MAINLINE
19	191+37.93	204+11.82	30	EB & WB	0.0	62705.7	0.0	6967.3	6967.3	667.2	0.0	696.7	MAINLINE
20	204+11.82	216+86.82	30	EB & WB	0.0	57132.5	0.0	6348.1	6348.1	607.9	0.0	634.8	MAINLINE
21	216+86.82	229+59.96	30	EB & WB	0.0	50970.4	0.0	5663.4	5663.4	542.3	0.0	566.3	MAINLINE
22	229+59.96	242+34.96	30	EB & WB	0.0	51248.6	0.0	5694.3	5694.3	545.3	0.0	569.4	MAINLINE
23	242+34.96	252+11.44	30	EB & WB	0.0	53349.6	0.0	5927.7	5927.7	567.7	0.0	592.8	MAINLINE
24	252+11.44	267+86.44	30	EB & WB	0.0	68358.3	0.0	7595.4	7595.4	727.4	0.0	759.5	MAINLINE
25	267+86.44	280+61.44	30	EB & WB	3049.1	58127.2	338.8	6458.6	6458.6	618.5	67.8	645.9	MAINLINE & SHLDR
26	280+61.44	291+00.00	30	EB & WB	7956.1	61803.3	884.0	6867.0	6867.0	657.6	176.8	686.7	MAINLINE & SHLDR
27	291+00.00	302+75.00	30	EB & WB	13409.7	90088.4	1490.0	10009.8	10009.8	958.6	298.0	1001.0	MAINLINE & SHLDR
28	302+75.00	315+53.64	30	EB & WB	14689.1	94760.9	1632.1	10529.0	10529.0	1008.3	326.4	1052.9	MAINLINE & SHLDR
29	315+53.64	328+55.90	30	EB & WB	23491.7	111360.0	2610.2	12373.3	12373.3	1184.9	522.0	1237.3	MAINLINE, SHLDR, & I-270 RAMPS
30	328+55.90	341+30.90	30	EB & WB	29607.8	185103.5	3289.8	20567.1	20567.1	1969.6	658.0	2056.7	MAINLINE, SHLDR, & I-270 RAMPS
31	341+30.90	354+05.90	30	EB & WB	30384.7	88857.9	3376.1	9873.1	9873.1	945.5	675.2	987.3	MAINLINE & SHLDR
32	354+05.90	366+80.90	30	EB & WB	35977.1	75474.3	3997.5	8386.0	8386.0	803.1	799.5	838.6	MAINLINE & SHLDR
33	366+80.90	379+55.90	30	EB & WB	17518.1	70285.0	1946.5	7809.4	7809.4	747.9	389.3	780.9	MAINLINE & SHLDR
34	379+55.90	392+30.90	30	EB & WB	24089.1	91239.6	2676.6	10137.7	10137.7	970.8	535.3	1013.8	MAINLINE & SHLDR
35	392+30.90	405+05.90	30	EB & WB	30320.2	85108.3	3368.9	9456.5	9456.5	905.6	673.8	945.7	MAINLINE & SHLDR
36	405+05.90	417+80.90	30	EB & WB	33980.1	76105.2	3775.6	8456.1	8456.1	809.8	755.1	845.6	MAINLINE & SHLDR
37	417+80.90	430+55.90	30	EB & WB	33947.8	93346.5	3772.0	10371.8	10371.8	993.2	754.4	1037.2	MAINLINE & SHLDR
38	430+55.90	443+30.90	30	EB & WB	5799.8	7079.9	644.4	786.7	786.7	75.3	128.9	78.7	MAINLINE & SHLDR
39	443+30.90	456+05.90	30	EB & WB	33964.5	78837.9	3773.8	8759.8	8759.8	838.9	754.8	876.0	MAINLINE & SHLDR
40	456+05.90	468+80.90	30	EB & WB	69873.6	131836.0	7763.7	14648.4	14648.4	1402.8	1552.7	1464.8	MAINLINE, SHLDR, & RTE 141 RAMPS
41	468+80.90	481+55.90	30	EB & WB	47597.1	114232.1	5288.6	12692.5	12692.5	1215.5	1057.7	1269.3	MAINLINE, SHLDR, & RTE 141 RAMPS
42	481+55.90	483+94.85	30	EB & WB	8853.6	17661.8	983.7	1962.4	1962.4	187.9	196.7	196.2	MAINLINE & SHLDR
								SUBTOTAL 1	321989.2	30835.0	10414.5	32198.9	
								PAY TOTAL	*	30835	10415	*	

SUMMARY OF QUANTITIES
SHEET 2 OF 12

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
05/30/2025 3:33:25 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/26/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

PAVEMENT (2 OF 2)

PLAN SHEET NO.	STATION	STATION	RDWY	LOCATION	AREA RAISED SHLDR S.F.	AREA COMMUTER LOT S.F.	AREA RAISED SHLDR S.Y.	AREA COMMUTER LOT S.Y.	3" OR LESS COLDMILL S.Y.	2" DEPTH TRANSITION MODIFIED COLDMILLING S.Y.	1 3/4" BIT. PAVEMENT BP-2 PG 64-22 (1.98 TONS/CY) TON	2" BIT. PAVEMENT BP-2 PG 64-22 (1.98 TONS/CY) TON	TACK COAT (.10) GAL OR (.08) GAL	REMARKS
4	0+00.00	12+75.00	30	EB & WB	4274.3	0.0	474.9	0.0	474.9	0.0	45.7	0.0	47.5	RAISED ASPHALT SHLDR
7	38+24.23	50+99.23	30	EB & WB	8200.1	0.0	911.1	0.0	911.1	0.0	87.7	0.0	91.1	RAISED ASPHALT SHLDR
8	50+99.23	63+74.23	30	EB & WB	6399.6	0.0	711.1	0.0	711.1	0.0	68.4	0.0	71.1	RAISED ASPHALT SHLDR
9	63+74.23	76+49.23	30	EB & WB	3048.2	0.0	338.7	0.0	338.7	0.0	32.6	0.0	33.9	RAISED ASPHALT SHLDR
10	76+49.23	89+24.23	30	EB & WB	2253.7	0.0	250.4	0.0	250.4	0.0	24.1	0.0	25.0	RAISED ASPHALT SHLDR
12	102+09.00	114+84.00	30	EB & WB	721.4	0.0	80.2	0.0	80.2	0.0	7.7	0.0	8.0	RAISED ASPHALT SHLDR
13	114+84.00	127+60.47	30	WB	1558.4	0.0	173.2	0.0	173.2	0.0	16.7	0.0	17.3	RAISED ASPHALT SHLDR
17	165+87.93	178+62.93	30	EB & WB	1105.1	0.0	122.8	0.0	122.8	0.0	11.8	0.0	12.3	RAISED ASPHALT SHLDR
19	191+37.93	204+11.82	30	WB	404.7	0.0	45.0	0.0	45.0	0.0	4.3	0.0	4.5	RAISED ASPHALT SHLDR
30	328+55.90	341+30.90	30	KENNERLY ROAD	0.0	60806.5	0.0	6756.3	0.0	142.8	0.0	743.2	540.5	EAST COMMUTER LOT
								SUBTOTAL 2	3107.4	142.8	299.0	743.2	851.2	
								SUBTOTAL 1	321989.2				32198.9	
								PAY TOTAL	325097	143	1042		33050	

NOTE: TACK COAT ON MILLED SURFACE IS 0.10 GAL/SY
TACK COAT ON EXISTING SURFACE IS 0.08 GAL/SY

GUARDRAIL

ZONE NO.	PLAN SHEET NO.	RDWY	BEGIN STATION	END STATION	LOC.	MGS GUARDRAIL, 8' 8' POSTS 6'-3" SP. (LF)	MGS LONGSPAN GUARDRAIL SECTION (EA)	(MASH) TYPE A CRASHWORTHY END TERMINAL (EACH)	TYPE D CRASHWORTHY END TERMINAL (EACH)	MGS END ANCHOR (EACH)	MGS BRIDGE APPROACH TRANS. SECTION (EACH)	MODIFIED SHAPING SLOPES CL III* (100FT)	MODOT ITS ASSET RELOC. (LF)	REMARKS
1	11	RTE. 30	90+42	90+69	RT				1					REMOVE EXISTING BARRIER NOSE & INSTALL CWET
2	12	RTE 30	102+77	103+04	LT				1					REMOVE EXISTING BARRIER NOSE & INSTALL CWET
3	18-19	RTE 30	190+37	194+52	RT	237.5	1.0	1		1		1		LONGSPAN AT EXISTING DRAINAGE FLUME; LON = 139 FT
4	27-28	RTE 30	300+37	303+24	RT	287.5								REMOVE EXISTING CWET, END TERMINAL AND FILL IN GAP
5	29	RTE 30	317+16	318+68	CL	87.5		1		1		1		REMOVE EXISTING GUARDRAIL; LON = 120 FT
6	29	RTE 30	321+38	322+77	RT	75.0		1		1		1		REMOVE EXISTING GUARDRAIL; LON = 100 FT
7	30	RTE 30	330+00	331+52	LT	87.5		1		1		1		REMOVE EXISTING GUARDRAIL; LON = 110 FT
8	30	RTE 30	333+86	335+50	LT	100.0		1		1		1		REMOVE EXISTING GUARDRAIL; LON = 124 FT
9	30	RTE 30	334+20	335+72	CL	87.5		1		1		1		REMOVE EXISTING GUARDRAIL; LON = 120 FT
10	30	RTE 30	338+24	339+76	LT	87.5		1		1		1		AT DRAINAGE STRUCTURE; LON = 107 FT
11	31	RTE 30	343+29	344+79	LT	100.0		1				1		REMOVE EXIST. CWET & TIE INTO EXIST. MGS; LON = 148 FT
12	31	RTE 30	342+27	352+65	RT	987.5		1				1		REMOVE EXIST. CWET & TIE INTO EXIST. MGS; LON = 181 FT
13	33	RTE 30	366+73	368+48	RT	125.0		1				1		REMOVE EXIST. CWET & TIE INTO EXIST. MGS; LON = 148 FT
14	34-35	RTE 30	390+86	401+50	LT	1000.0		1		1		1		START AT FIELD ENTRANCE
15	34-35	RTE 30	389+75	401+39	RT	1100.0		1		1		1		START LON AT FOOD EXIT SIGN; LON = 182 FT
16	35-38	RTE 30	402+22	432+36	LT	2962.5				1	1			END GUARDRAIL BEFORE FIELD ENTRANCE
17	35-36	RTE 30	402+54	407+92	RT	487.5		1				1		REMOVE EXIST. CWET & TIE INTO EXIST. MGS
18	36	RTE 30	410+20	414+22	RT	387.5				1				REMOVE EXIST. END TERMINAL & TIE INTO EXIST. MGS
					SUBTOTAL	8200.0	1.0	13	2	11	1	13	900	
					PAY TOTAL	8200	1	13	2	11	1	13	900	

SUMMARY OF QUANTITIES
SHEET 3 OF 12

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 3:33:31 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/26/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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)

PERMANENT PAVEMENT MARKINGS (1 OF 2)

PLAN SHEET NO.	STATION	STATION	ROADWAY	CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS) 4" SOLID WHITE (L.F.)	4" SOLID BLUE (L.F)	CLASS 2 PAVEMENT MARKING PAINT (25-MIL, TYPE L BEADS) 4" SOLID YELLOW (L.F.)	4" INTERM. YELLOW (L.F.)	6" SOLID YELLOW (L.F.)	6" SOLID WHITE (L.F.)	6" INTERM. WHITE (L.F.)	6" DOTTED WHITE (L.F.)	REMARKS
110	0+00.00	12+50.00	ROUTE 30	0.0	0.0	0.0	0.0	0.0	2294.3	312.3	0.0	
111	12+50.00	26+00.00	ROUTE 30	0.0	0.0	2661.5	269.3	0.0	2402.6	482.4	0.0	
112	26+00.00	39+49.23	ROUTE 30	0.0	0.0	2701.6	675.4	0.0	2497.2	675.4	0.0	
113	39+49.23	52+99.23	ROUTE 30	0.0	0.0	2699.9	675.0	0.0	2359.7	675.0	0.0	
114	52+99.23	66+49.23	ROUTE 30	0.0	0.0	2923.2	107.5	0.0	2943.6	566.5	0.0	
115	66+49.23	79+99.23	ROUTE 30	0.0	0.0	2674.6	0.0	0.0	2409.3	0.0	0.0	
116	79+99.23	93+49.23	ROUTE 30	0.0	0.0	2778.2	0.0	0.0	2805.7	555.9	0.0	
117	93+49.23	107+09.00	ROUTE 30	0.0	0.0	2891.7	0.0	0.0	2232.0	678.6	0.0	
118	107+09.00	120+59.00	ROUTE 30	0.0	0.0	2938.9	106.0	0.0	3650.5	518.5	0.0	
119	120+59.00	134+10.47	ROUTE 30	0.0	0.0	2890.0	0.0	0.0	3155.8	569.7	0.0	
120	134+10.47	147+60.47	ROUTE 30	0.0	0.0	3346.9	0.0	0.0	3051.5	580.2	0.0	
121	147+60.47	161+12.93	ROUTE 30	0.0	0.0	2656.8	0.0	0.0	2799.3	567.7	0.0	
122	161+12.93	174+62.93	ROUTE 30	0.0	0.0	4200.6	0.0	0.0	2862.1	546.1	0.0	
123	174+62.93	188+12.93	ROUTE 30	0.0	0.0	2706.2	0.0	0.0	2601.6	675.3	0.0	
124	188+12.93	201+62.93	ROUTE 30	0.0	0.0	2736.5	0.0	0.0	2854.8	577.9	0.0	
125	201+62.93	215+11.82	ROUTE 30	0.0	0.0	2957.2	0.0	0.0	2796.0	567.7	0.0	
126	215+11.82	228+59.69	ROUTE 30	0.0	0.0	2696.5	0.0	0.0	2211.5	674.1	0.0	
127	228+59.69	242+09.96	ROUTE 30	0.0	0.0	2700.0	0.0	0.0	2480.8	675.0	0.0	
128	242+09.96	255+61.44	ROUTE 30	0.0	0.0	3230.3	0.0	0.0	2465.4	672.7	0.0	
129	255+61.44	269+11.44	ROUTE 30	0.0	0.0	3119.4	0.0	0.0	3264.8	504.9	0.0	
130	269+11.44	282+47.59	ROUTE 30	0.0	0.0	2796.6	0.0	0.0	4900.0	554.3	0.0	
131	282+47.59	290+00.00	ROUTE 30	0.0	0.0	311.0	0.0	2656.4	3990.8	532.3	0.0	
132	290+00.00	303+97.52	ROUTE 30	0.0	0.0	88.0	0.0	1590.3	1518.6	400.0	0.0	
133	303+97.52	317+51.16	ROUTE 30	0.0	0.0	405.0	0.0	2873.9	3032.0	677.7	0.0	
134-135	317+51.16	331+28.42	ROUTE 30	0.0	0.0	0.0	0.0	2884.0	8722.0	656.6	0.0	
136	331+28.42	344+78.42	ROUTE 30	0.0	0.0	557.0	0.0	3127.5	5174.7	1146.9	0.0	
137	344+78.42	358+28.42	ROUTE 30	0.0	0.0	0.0	0.0	2700.0	2700.0	752.5	0.0	
138	358+28.42	371+78.42	ROUTE 30	0.0	0.0	0.0	0.0	2710.3	2686.3	693.1	0.0	
139	371+78.42	385+28.42	ROUTE 30	0.0	0.0	351.2	0.0	2456.6	7307.4	588.5	0.0	
140	385+28.42	398+78.42	ROUTE 30	0.0	0.0	0.0	0.0	2699.6	3051.2	675.1	0.0	
141	398+78.42	412+28.42	ROUTE 30	0.0	0.0	0.0	0.0	2617.6	2720.0	680.0	0.0	
142	412+28.42	425+78.42	ROUTE 30	0.0	0.0	75.8	0.0	2567.4	3519.3	681.2	40.2	
143	425+78.42	439+28.42	ROUTE 30	0.0	0.0	0.0	0.0	2750.0	2800.5	677.5	0.0	
144	439+28.42	452+78.42	ROUTE 30	0.0	0.0	0.0	0.0	2750.5	2750.5	687.5	96.0	
145	452+78.42	466+28.42	ROUTE 30	0.0	0.0	0.0	0.0	3859.4	5747.3	1060.9	134.9	
146-147	466+28.42	479+78.42	ROUTE 30	0.0	0.0	0.0	0.0	3705.7	5116.7	965.4	0.0	
148	479+78.42	483+94.85	ROUTE 30	0.0	0.0	0.0	0.0	817.6	834.1	338.2	0.0	
046A	877+83.09	881+35.29	WEBER HILL RD	3579.0	332.0	0.0	0.0	0.0	0.0	0.0	0.0	EAST COMMUTER LOT
			SUBTOTALS	3579	332	60095	1833	42767	120710	22844	271	
			PAY TOTALS	3579	332	61928		42767	143825			

SUMMARY OF QUANTITIES
SHEET 4 OF 12

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 3:33:40 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED 9/26/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	3

COUNTY: ST. LOUIS
JOB NO.: JSL0081
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)

PERMANENT PAVEMENT MARKINGS (2 OF 2)

PLAN SHEET NO.	STATION	STATION	ROADWAY	PREFORMED THERMOPLASTIC PAVEMENT MARKINGS														REMARKS
				24" YELLOW THEROMPLASTIC HASHBARS (L.F.)	4" DOTTED YELLOW (L.F.)	24" SOLID WHITE STOP BAR (L.F.)	6" SOLID WHITE (L.F.)	6" DOTTED WHITE (L.F.)	RIGHT TURN ARROW (EACH)	LEFT TURN ARROW (EACH)	STRAIGHT ARROW (EACH)	STRAIGHT LEFT TURN ARROW (EACH)	STRAIGHT RIGHT TURN ARROW (EACH)	LANE REDUCTION ARROW (EACH)	ADA ACCESSIBLE SYMBOL (EACH)	WORD "ONLY" EACH	24X36" WHITE YIELD LINE TRIANGLES (EACH)	
110	0+00.00	12+50.00	ROUTE 30	0.0	0.0	0	0	0	3	3	0	0	0	0	0	0	0	
111	12+50.00	26+00.00	ROUTE 30	0.0	0.0	540	0	0	2	5	0	0	0	0	0	0	0	
112	26+00.00	39+49.23	ROUTE 30	0.0	0.0	0	0	0	3	3	0	0	0	0	0	0	0	
113	39+49.23	52+99.23	ROUTE 30	0.0	0.0	0	0	0	3	3	0	0	0	0	0	0	0	
114	52+99.23	66+49.23	ROUTE 30	0.0	16.2	384	0	0	1	7	0	0	0	0	0	0	6	
115	66+49.23	79+99.23	ROUTE 30	0.0	0.0	155.3	0	0	0	0	0	0	0	0	0	0	0	
116	79+99.23	93+49.23	ROUTE 30	0.0	0.0	462	0	0	0	5	0	0	0	0	0	0	0	
117	93+49.23	107+09.00	ROUTE 30	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
118	107+09.00	120+59.00	ROUTE 30	0.0	30.8	534	0	80.4	2	9	0	0	0	0	0	0	6	
119	120+59.00	134+10.47	ROUTE 30	0.0	0.0	234	0	0	2	4	0	0	0	0	0	0	17	
120	134+10.47	147+60.47	ROUTE 30	0.0	0.0	228	0	0	0	2	0	0	0	0	0	0	6	
121	147+60.47	161+12.93	ROUTE 30	0.0	0.0	260	261	0	0	6	0	0	0	0	0	0	0	
122	161+12.93	174+62.93	ROUTE 30	84.7	0.0	312	0	0	0	2	0	0	0	0	0	0	0	
123	174+62.93	188+12.93	ROUTE 30	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
124	188+12.93	201+62.93	ROUTE 30	0.0	0.0	222	0	0	0	4	0	0	0	0	0	0	12	
125	201+62.93	215+11.82	ROUTE 30	0.0	0.0	240	0	0	0	2	0	0	0	0	0	0	7	
126	215+11.82	228+59.69	ROUTE 30	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
127	228+59.69	242+09.96	ROUTE 30	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
128	242+09.96	255+61.44	ROUTE 30	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
129	255+61.44	269+11.44	ROUTE 30	0.0	45.3	486	0	0	0	7	0	1	0	0	0	0	6	
130	269+11.44	282+47.59	ROUTE 30	0.0	0.0	144	0	0	5	5	0	0	0	0	0	0	24	
131	282+47.59	290+00.00	ROUTE 30	0.0	0.0	102	0	0	1	3	0	0	0	0	0	0	7	
132	290+00.00	303+97.52	ROUTE 30	0.0	0.0	117	0	0	0	2	0	1	0	0	0	0	7	
133	303+97.52	317+51.16	ROUTE 30	0.0	0.0	36	0	0	2	2	0	4	0	0	0	0	19	
134-135	317+51.16	331+28.42	ROUTE 30	0.0	0.0	374.1	0	241.6	3	16	0	0	0	0	0	0	28	
136	331+28.42	344+78.42	ROUTE 30	0.0	69.5	219	0	43.6	8	4	1	2	0	0	0	4	17	
137	344+78.42	358+28.42	ROUTE 30	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
138	358+28.42	371+78.42	ROUTE 30	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
139	371+78.42	385+28.42	ROUTE 30	0.0	86.0	270.65	0	0	7	8	0	0	0	0	0	0	33	
140	385+28.42	398+78.42	ROUTE 30	0.0	0.0	12.31	0	0	1	1	0	0	0	0	0	0	0	
141	398+78.42	412+28.42	ROUTE 30	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
142	412+28.42	425+78.42	ROUTE 30	0.0	0.0	36	0	0	2	2	0	1	0	0	0	0	0	
143	425+78.42	439+28.42	ROUTE 30	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
144	439+28.42	452+78.42	ROUTE 30	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
145	452+78.42	466+28.42	ROUTE 30	0.0	0.0	0	0	0	0	0	0	0	0	1	0	0	0	
146-147	466+28.42	479+78.42	ROUTE 30	0.0	0.0	36	0	0	1	2	0	0	0	1	0	0	0	
148	479+78.42	483+94.85	ROUTE 30	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
046A	877+83.09	881+35.29	WEBER HILL RD	0.0	0.0	0	0	0	0	0	2	0	0	0	5	0	0	EAST COMMUTER LOT
			SUBTOTALS	85	248	5404	261	366	46	107	3	9	0	2	5	4	195	
			PAY TOTALS	85	248	5404	627		153		3	9		2	5	4	195	

SUMMARY OF QUANTITIES
SHEET 5 OF 12

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 3:33:48 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/26/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 3
COUNTY: ST. LOUIS
JOB NO.: JSL0081
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)

FULL DEPTH CONCRETE PAVEMENT REPAIRS

PLAN SHEET NO.	LANE #	LOG MILE	RDWY	DIRECTION	WIDTH FT	LENGTH FT	FULL DEPTH PAVEMENT REPAIR					DESCRIPTION
							FURNISHING & PLACING CONCRETE MATERIAL FOR FULL DEPTH PAVEMENT REPAIR S.Y.	SUBGRADE COMPACTION (6 IN DEPTH) S.Y.	TYPE 1 OR 5 AGGREGATE FOR BASE (4 IN THICK) S.Y.	FULL DEPTH PAVEMENT REPAIR SAW CUT L.F.	DOWEL BAR FOR FULL DEPTH PVMT REPAIR EA.	
38	1	38.835	30	EB	12	10	13.3	13.3	13.3	44.0	24.0	
38	2	38.835	30	EB	12	12	16.0	16.0	16.0	48.0	24.0	
38	2	38.84	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
29	LT TURN & LANE 1	40.952	30	EB	18	6	12.0	12.0	12.0	48.0	36.0	
29	2	40.952	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
29	3	40.952	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
28	LT TURN	41.035	30	EB	14	6	9.3	9.3	9.3	40.0	28.0	
28	1	41.035	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
28	2	41.035	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
28	RT TURN	41.035	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
28	1	41.151	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
28	2	41.151	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
20	1	42.932	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
19	1	43.275	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
19	2	43.275	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
18	1	43.526	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
17	1	43.656	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
12	3	44.918	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
12	1	45.048	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
12	2	45.048	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
11	1	45.091	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
11	2	45.091	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
11	1	45.102	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
11	2	45.102	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
11	1	45.115	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
11	2	45.115	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
11	1	45.152	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
11	2	45.152	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
11	1	45.157	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
11	2	45.161	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
11	1	45.165	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
11	1	45.17	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
11	2	45.17	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
11	2	45.174	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
11	1	45.179	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
11	1	45.184	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
11	2	45.184	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
11	2	45.188	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
11	1	45.278	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
10	2	45.56	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
9	1	45.703	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
7	1	46.135	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
7	2	46.135	30	EB	12	6	8.0	8.0	8.0	36.0	24.0	
11	2	7.457	30	WB	12	6	8.0	8.0	8.0	36.0	24.0	
11	1	7.484	30	WB	12	8	10.7	10.7	10.7	40.0	24.0	
11	1	7.489	30	WB	6	6	4.0	4.0	4.0	24.0	12.0	
11	2	7.489	30	WB	12	6	8.0	8.0	8.0	36.0	24.0	
11	2	7.493	30	WB	12	6	8.0	8.0	8.0	36.0	24.0	
11	2	7.527	30	WB	12	6	8.0	8.0	8.0	36.0	24.0	
11	1	7.536	30	WB	12	6	8.0	8.0	8.0	36.0	24.0	
11	2	7.536	30	WB	12	6	8.0	8.0	8.0	36.0	24.0	
11	1	7.55	30	WB	12	6	8.0	8.0	8.0	36.0	24.0	
11	2	7.55	30	WB	12	6	8.0	8.0	8.0	36.0	24.0	
11	1	7.556	30	WB	12	6	8.0	8.0	8.0	36.0	24.0	
11	2	7.556	30	WB	12	6	8.0	8.0	8.0	36.0	24.0	
11	1	7.569	30	WB	12	6	8.0	8.0	8.0	36.0	24.0	
11	2	7.569	30	WB	12	6	8.0	8.0	8.0	36.0	24.0	
11	2	7.581	30	WB	12	6	8.0	8.0	8.0	36.0	24.0	
11	1	7.627	30	WB	12	6	8.0	8.0	8.0	36.0	24.0	
11	2	7.627	30	WB	12	6	8.0	8.0	8.0	36.0	24.0	
12	1	7.649	30	WB	12	6	8.0	8.0	8.0	36.0	24.0	
12	2	7.649	30	WB	12	6	8.0	8.0	8.0	36.0	24.0	
12	1	7.659	30	WB	6	6	4.0	4.0	4.0	24.0	12.0	
12	2	7.659	30	WB	12	6	8.0	8.0	8.0	36.0	24.0	
13	1	8.047	30	WB	12	6	8.0	8.0	8.0	36.0	24.0	
20	2	9.668	30	WB	12	6	8.0	8.0	8.0	36.0	24.0	
22	1	10.05	30	WB	12	6	8.0	8.0	8.0	36.0	24.0	
22	1	10.14	30	WB	12	6	8.0	8.0	8.0	36.0	24.0	
VAR.			30	EB & WB			139.3	139.3	139.3	50.0	33.4	LOCATION TBD BY ENGINEER
						SUBTOTAL 1	696.6	696.6	696.6	2514.0	1657	
						PAY TOTALS	697	697	697	2514.0	1657	

* AREAS AND LOCATIONS OF PAVEMENT REPAIRS ARE AN APPROXIMATION.

SUMMARY OF QUANTITIES
SHEET 6 OF 12

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 3:33:56 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/26/2025

ROUTE	STATE
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COUNTY
ST. LOUIS

JOB NO.
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CONTRACT ID.

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BRIDGE NO.

DESCRIPTION	DATE

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

PARTIAL DEPTH ASPHALT PAVEMENT REPAIRS

PLAN SHEET NO.	LANE #	LOG MILE	RDWY	DIRECTION	WIDTH FT	LENGTH FT	PARTIAL DEPTH PVMT REPAIR: FURNISHING & PLACING ASPHALT MATERIAL FOR CLASS C PARTIAL PAVEMENT REPAIR TONS	PARTIAL DEPTH PVMT REPAIR: REMOVAL FOR CLASS C PARTIAL DEPTH PVMT REPAIR S.Y.	DESCRIPTION
10	2	45.425	30	EB	4	105	10.4	46.7	
24	2	10.58	30	WB	2	90	4.4	20.0	
24	2	10.727	30	WB	2	75	3.7	16.7	
VAR.			30	EB & WB			4.6	20.8	LOCATION TBD BY ENGINEER
						SUBTOTAL	23.1	104.2	
						PAY TOTAL	23	104	

* AREAS AND LOCATIONS OF PAVEMENT REPAIRS ARE AN APPROXIMATION.

SIDEWALK, ADA, TRUNCATED DOMES

PLAN SHEET NO	RDWY	STA	STA	LOC	PAID AREA S.F.	4 IN. CONCRETE SIDEWALK S.Y.	TYPE 5 AGG. FOR BASE (4 IN. THICK) S.Y.	TRUNCATED DOMES S.F.	REMARKS
9	30	67+75.81	67+87.10	41.61' RT	122.0	13.6	13.6		WEBER ROAD
13	30	121+00	123+00	RT & LT	70.4	7.8	7.8	59.0	VALCOUR AVE
					SUB TOTALS	21.4	21.4	59.0	
					PAY TOTAL	21	*	59	

* SEE SUMMARY OF TYPE 5 AGGREGATE BASE FOR PAY TOTALS.

CONCRETE ENTRANCES

PLAN SHEET NO.	RDWY	STA	LOC	8 IN. PAVED CONCRETE APPROACH S.Y.	4 IN. TYPE 5 AGGREGATE BASE S.Y.	REMARKS
5	30	13+50	RT	57.3	57.3	SOUTHSIDE/SHARPSHOOTERS
20	30	215+00	LT	87.5	87.5	BRIARSTONE DR.
23	30	250+00	RT	84.4	84.4	ALEPPO DRIVE
24	30	260+25	LT	47.8	47.8	BAUER AUTOMOTIVE
25	30	270+00	LT	62.4	62.4	SUNSET ROOFING
25	30	270+00	LT	36.5	36.5	MIDLAND STATES BANK
27	30	297+50	LT	49.7	49.7	PRIVATE DRIVE (APT.)
27	30	300+00	LT	142.5	142.5	LOCKHAVEN PLACE
28	30	305+00	LT	216.4	216.4	HILL TOP DR.
			TOTALS	784.5	784.5	
			PAY TOTALS	785	*	

* SEE SUMMARY OF TYPE 5 AGGREGATE BASE FOR PAY TOTALS.

TYPE 5 AGGREGATE SUMMARY

DESCRIPTION	TYPE 5 AGG. FOR BASE (4 IN. THICK) S.Y.	REMARKS
FOR SIDEWALK	21.4	
FOR CONCRETE ENTRANCES	784.5	
FOR CURB & GUTTER	28.2	
A2 SHOULDER AND OPTIONAL PAVEMENT	366.5	
TOTALS	1200.6	
PAY TOTALS	1201.0	

CURB AND GUTTER

PLAN SHEET NO.	RDWY	STA	STA	LOC	CURB REPLACEMENT VARIOUS TYPE L.F.	ASPHALT CURB (6 IN. THICK) L.F.	TYPE B CURB L.F.	U GUTTER L.F.	TYPE 5 AGG. BASE (4 IN. THICK) S.Y.	REMARKS
VAR.	30	161+95.35	191+11.60	18' RT				291.6	13.0	LOCATIONS TBD BY ENGINEER
13	30	122+00	123+00	42.4' LT			7.0		0.2	NEW CURB AT VALCOUR
9	30	67+75.81	67+87.10	41.61' RT			17.2		0.6	NEW CURB AT WEBER
VAR.	30	VAR.	VAR.	VAR.	350.0				11.7	LOCATIONS TBD BY ENGINEER
16	30	160+88	161+70	LT			82.0		2.7	
30	30	329+00	336+00	620' LT		921.0				COMMUTER LOT CURB
				TOTALS	350.0	921.0	106.2	291.6	28.2	
				PAY TOTALS	350.0	921.0	107	292	*	

* SEE SUMMARY OF TYPE 5 AGGREGATE BASE FOR PAY TOTALS.

SUMMARY OF QUANTITIES

SHEET 7 OF 12

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 3:34:05 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/26/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	3

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

ISLANDS, TUBULAR MARKERS, AND CURB REFLECTORS

INTERSECTION	RDWY	STA	LOC	6" CONCRETE MEDIAN STRIP S.Y.	18 IN. WHITE ISLAND TUBULAR MARKERS EA.	CURB REFLECTORS EA.	REMARKS
RAHNING RD	30	381+00	RT		2.0	7.0	MAINLINE ISLAND
RAHNING RD	30	381+00	RT		3.0	9.0	SIDE ISLAND
RAHNING RD	30	381+00	RT		3.0	9.0	SIDE ISLAND
RAHNING RD	30	381+00	RT		2.0	8.0	MAINLINE ISLAND
RAHNING RD	30	381+00	LT		2.0	8.0	MAINLINE ISLAND
RAHNING RD	30	381+00	LT		3.0	9.0	SIDE ISLAND
RAHNING RD	30	381+00	LT		3.0	9.0	SIDE ISLAND
RAHNING RD	30	381+00	LT		2.0	7.0	MAINLINE ISLAND
WEBER HILL RD	30	333+00	LT		3.0	9.0	MAINLINE ISLAND
WEBER HILL RD	30	333+00	LT		3.0	9.0	SIDE ISLAND
WEBER HILL RD	30	333+00	LT		3.0	9.0	SIDE ISLAND
WEBER HILL RD	30	333+00	RT		6.0	9.0	MAINLINE ISLAND
WEBER HILL RD	30	333+00	LT		7.0	11.0	MAINLINE ISLAND
I-270 OFF RP	30	330+00	RT		3.0	9.0	SIDE ISLAND
I-270 OFF RP	30	330+00	RT		3.0	9.0	SIDE ISLAND
I-270 OFF RP	30	330+00	RT		3.0	9.0	MAINLINE ISLAND
I-270 OFF RP	30	328+00	CL		7.0	11.0	MEDIAN
I-270 OFF RP	30	329+00	LT		3.0	9.0	SIDE ISLAND
I-270 ON RP	30	324+00	LT		3.0	9.0	SIDE ISLAND
I-270 ON RP	30	324+00	RT		3.0	9.0	SIDE ISLAND
LANDMARK DR	30	315+00	RT	38.4	3.0	9.0	SIDE ISLAND
LANDMARK DR	30	315+00	RT	28.4	3.0	9.0	SIDE ISLAND
SUNLIND DR	30	281+00	CL		3.0	8.0	MEDIAN
SUNLIND DR	30	281+00	CL		5.0	11.0	MEDIAN
SAPPINGTON RD	30	260+00	CL		3.0	9.0	MEDIAN
SAPPINGTON RD	30	258+00	CL		3.0	9.0	MEDIAN
SAPPINGTON RD	30	259+00	RT		3.0	9.0	MEDIAN
EDDIE AND PARK RD	30	207+00	CL	0.9	8.0	25.0	4 MEDIAN
EDDIE AND PARK RD	30	205+00	RT		3.0	9.0	SIDE ISLAND
EDDIE AND PARK RD	30	201+00	CL		15.0	14.0	MEDIAN
BAPTIST CHURCH RD	30	200+00	LT		6.0	18.0	2 SIDE ISLAND
BAPTIST CHURCH RD	30	200+00	CT/LT	1.8	6.0	18.0	2 MEDIAN
GRANTVIEW LN	30	154+00	CL		3.0	9.0	MEDIAN
LACLEDE RD	30	142+00	RT		3.0	9.0	SIDE ISLAND
LACLEDE RD	30	143+00	CL		5.0	13.0	MEDIAN
LACLEDE RD	30	142+00	CL		7.0	7.0	ISLAND
VALCOUR AVE	30	122+00	LT/RT	17.4	9.0	27.0	2 ISLANDS
ROCK HILL RD	30	113+00	CL		8.0	12.0	MEDIAN
ROCK HILL RD	30	111+00	CL		3.0	9.0	SIDE ISLAND
ROCK HILL RD	30	108+00	CL		10.0	22.0	3 MEDIANS
MACKENZIE RD	30	84+00	CL		4.0	10.0	MEDIAN
MACKENZIE RD	30	84+00	CL		3.0	9.0	MEDIAN
MACKENZIE RD	30	84+00	LT/RT		2.0	6.0	MEDIAN
VASEL AVE	30	60+00	CL		2.0	6.0	MEDIAN
WEBER RD	30	56+98	LT		3.0	9.0	SIDE ISLAND
SEIBERT AVE	30	14+00	CL	117.0	4.0	9.0	MEDIAN
			TOTALS	203.9	194.0	483.0	
			PAY TOTALS	204	194	483	

TEMPORARY EROSION CONTROL

PLAN SHEET NO.	RDWY	STA	STA	LOC	DEPTH IN.	SILT FENCE L.F.	ALT. DITCH CHECK L.F.	SEDIMENT REMOVAL C.Y.	REMARKS
18	30	190+12	191+12	RT		100.0		1.0	GUARDRAIL ZONE 3 CWET INSTALLATION
28	30	305+09.33	308+01.60	RT			48.0		8' FLAT BOTTOM DITCH
29	30	316+91	317+91	CL		100.0		1.0	GUARDRAIL ZONE 5 CWET INSTALLATION
29	30	320+50	321+50	RT		100.0		1.0	GUARDRAIL ZONE 6 CWET INSTALLATION
30	30	330+77	331+77	LT		100.0		1.0	GUARDRAIL ZONE 7 CWET INSTALLATION
30	30	336+20		CL			10.0	1.0	GUARDRAIL ZONE 9 CWET INSTALLATION
30	30	337+45		CL			10.0	1.0	GUARDRAIL ZONE 9 CWET INSTALLATION
30	30	339+01	340+01	LT		100.0		1.0	GUARDRAIL ZONE 10 CWET INSTALLATION
31	30	342+02	343+02	RT		100.0		1.0	GUARDRAIL ZONE 12 CWET INSTALLATION
31	30	344+04	345+04	LT		100.0		1.0	GUARDRAIL ZONE 11 CWET INSTALLATION
33	30	367+23		RT			10.0	1.0	GUARDRAIL ZONE 13 CWET INSTALLATION
33	30	367+73		RT			10.0	1.0	GUARDRAIL ZONE 13 CWET INSTALLATION
34	30	389+50	390+50	RT		100.0		1.0	GUARDRAIL ZONE 15 CWET INSTALLATION
35	30	400+75	401+75	LT		100.0		1.0	GUARDRAIL ZONE 14 CWET INSTALLATION
36	30	402+29	403+29	RT		100.0		1.0	GUARDRAIL ZONE 17 CWET INSTALLATION
					SUBTOTALS	1000.0	88.0	14.0	
					TOTALS	1000	88	14	

SUMMARY OF QUANTITIES
SHEET 8 OF 12

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 3:34:12 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/26/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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)

CULVERT AND DRAINAGE DITCH CLEANOUT

PLAN SHEET NO.	RDWY	STA	STA	LOC	WIDTH	CULVERT CLEANOUT EA.	LINEAR GRADING CLASS 2 MODIFIED STA.	TURF TYPE TALL FESCUE SODDING SY.	REMARKS
VAR.	30	VAR.	VAR.	VAR.		20			LOCATIONS TBD BY ENGINEER
28	30	305+09.33	308+01.60	RT	16		2.8	498	REESTABLISH ORIGINAL FLOW LINE DITCH
					SUBTOTALS	20	2.8	498	
					PAY TOTALS	20	2.8	498	

UTILITY ADJUSTMENTS AND CONCRETE MANHOLE COLLARS

PLAN SHEET NO.	RDWY	STA	LOC	ADJUST TO GRADE MISC. MANHOLE EACH	ADJUST TO GRADE MISC. VALVES EACH	CONCRETE MANHOLE COLLAR EACH	REMARKS
VAR.*	30	VAR.*	VAR.*	11		11	
VAR.*	30	VAR.*	VAR.*		30		
			TOTALS	11	30	11	
			PAY TOTALS	11	30	11	

*LOCATION TO BE DETERMINED BY ENGINEER

INLET/MANHOLE TOP REPLACEMENT

PLAN SHEET NO.	ROADWAY SECTION SHEET NO.	STA	LOC	GRATED INLET REPAIR/ REPLACEMENT LF.	CURB INLET TOP REPAIR/ REPLACEMENT EA.	CURB INLET EA.	REMARKS
11	30	91+76	LT	4.0			
11	30	94+76	RT	8.0			
11	30	96+23	RT	4.0			
12	30	103+65.67	RT		1.0		
12	30	104+04.54	LT		1.0		
12	30	105+98.32	RT		1.0		
12	30	106+88.62	LT		1.0		
12	30	108+83.75	LT		1.0		
12	30	113+19.76	RT		1.0		
4_42	VAR.	VAR.	VAR.	64.0	10	2	
			SUBTOTALS	80.0	16.0	2.0	
			TOTALS	80.0	16.0	2.0	

RUMBLE STRIPS

PLAN SHEET NO.	STATION	STATION	ROADWAY	LOCATION	LENGTH (LF)	BITUMINOUS RUMBLE STRIP (STA.)	REMARKS
25	269+64.80	272+67.0	30	WB	125	1.25	
26	280+76.61	293+00	30	EB & WB	2661	26.61	
27	293+00	305+00	30	EB & WB	3144	31.44	
28	305+00	315+00	30	EB & WB	1987	19.87	
29	315+00	328+55.9	30	EB & WB	2201	22.01	
30	328+55.9	341+30.9	30	EB & WB	1816.6	18.17	
31	341+30.9	354+05.9	30	EB & WB	4868	48.68	
32	354+05.9	366+80.9	30	EB & WB	5097.3	50.97	
33	366+80.9	379+55.9	30	EB & WB	3632.5	36.33	
34	379+55.9	392+30.9	30	EB & WB	2731.7	27.32	
35	392+30.9	405+05.9	30	EB & WB	4300.6	43.01	
36	405+05.9	417+80.9	30	EB & WB	5083.1	50.83	
37	417+80.9	430+55.9	30	EB & WB	3099.8	31.00	
38	430+55.9	443+30.9	30	EB & WB	421.1	4.21	
39	443+30.9	456+05.9	30	EB & WB	2714	27.14	
40	456+05.9	468+80.9	30	EB & WB	4035.4	40.35	
41	468+80.9	481+55.9	30	EB & WB	3043.8	30.44	
42	481+55.9	483+94.85	30	EB & WB	473.8	4.74	
				TOTAL		514.37	
				PAYTOTAL		514.4	

A2 SHOULDER AND OPTIONAL PAVEMENT

PLAN SHEET NO.	RDWY	STA	STA	TYPE A2 SHOULDER S.Y.	OPTIONAL PAVEMENT S.Y.	TYPE 5 AGG. BASE (4 IN. THICK) S.Y.	SUBGRADE & SHOULDERING (100 FT)	REMARKS
4-5	30	12+56.57	14+67.36		117.0	117.0	2.2	SEIBERT AVE. MEDIAN STRIP
30	WEBER HILL	879+17.39	881+23.27	113.5	136.0	249.5	2.1	WEBER HILL RD
30	30	121+00	123+00		6.0			VALCOUR AVE
			SUBTOTALS	113.5	259.0	366.5	4.3	
			PAY TOTALS	114	259	*	4	

* SEE SUMMARY OF TYPE 5 AGGREGATE BASE FOR PAY TOTALS.

LIGHTING POLES

PLAN SHEET NO.	ROUTE	LOCATION	45' TOP MOUNT LIGHT POLE EA.	NEW CONCRETE FOUNDATION FOR 45' POLE EA.	TYPE B LUMINAIRES EA.	TYPE C LUMINAIRES EA.	REMARKS
65	30	RTE 30 @ VALCOUR AVE	2	2	2	0	
66	30	RTE 30 @ I-270 SB RAMP	1	1	0	1	
		TOTAL	3	3	2	1	
		PAY TOTAL	3	3	2	1	

SUMMARY OF QUANTITIES
SHEET 9 OF 12

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 3:34:21 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED 9/26/2025
ROUTE 30 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. JSL0081
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 CABLE AND CONDUIT

PLAN SHEET NO.	RDWY	LOC	PULL BOX PREFORMED CLASS 2 EA.	PULL BOX PREFORMED CLASS 3 EA.	2 INCH CONDUIT TRENCHED L.F.	3 INCH CONDUIT TRENCHED L.F.	3 INCH CONDUIT PUSHED L.F.	POWER	SIGNALS & PUSHBUTTONS				REMARKS
								1c#8 CABLE L.F.	2c#16 CABLE L.F.	3c#16 CABLE L.F.	5c#16 CABLE L.F.	7c#16 CABLE L.F.	
67	30	SEIBERT			7			290					
69	30	HEEGE			28			110					
71	30	WEBER			26			110					
73	30	MACKENZIE			8			80					
75	30	RT 21			22	27		100					
78	30	VALCOUR	3	1	14	40	299	70	300		300	1590	
83	30	LACLEDE STA.			21	29		90					
85	30	GRANT			9			80		270		120	
87	30	MUSICK				30							
89	30	BAPTIST CHURCH			26	26		110					
91	30	EDDIE & PARK			17	41		80					
93	30	SAPPINGTON											
95	30	GEYER			71	28		250					
97	30	NB 270			260			1330					
99	30	SB 270			24	28							
101	30	WEBER HILL				24							
103	30	RAHNING			16			600					
105	30	GRAVOIS BLUFFS											
		PAY TOTALS	3	1	549	273	299	3300	300	270	300	1710	

SIGNAL EQUIPMENT AND SIGNS

PLAN SHEET NO.	RDWY	LOC	SIGNAL CABINET CONTROLLER ASSEMBLY HOUSING NEMA TS2 EA.	ATC TRAFFIC SIGNAL CONTROLLER EA.	COMBINATION PAD MOUNTED 120V/240V POWER SUPPLY & LIGHTING CONTR. EA.	NETWORK CONNECTED SIGNAL MONITOR EA.	RED LEFT SIGNAL IND. EA.	COUNTDOWN PEDESTRIAN SIGNAL HEAD TYPE 1S EA.	SIGNAL HEAD TYPE 3S EA.	SIGNAL HEAD TYPE 3B EA.	SIGNAL HEAD TYPE 4B EA.	SIGNAL HEAD TYPE 5B EA.	AUDIBILE PEDESTRIAN PUSHBUTTON & SIGNING EA.	RETRO-REFLECTIVE BACKPLATE EA.	SIGNAL SIGNS SH-FLAT SHEET S.F.	SIGNAL SIGNS MOUNTING HARDWARE	LED BLANK-OUT SIGN EA.	REMARKS
67	30	SEIBERT			1									9	44	6		
69	30	HEEGE		1	1									9	66.5	9		
71	30	WEBER			1									12	45	6		
73	30	MACKENZIE			1									12	70.5	8		
75	30	RT 21	1	1	1									15	43.5	5		
78	30	VALCOUR	1	1	1	1		2	1	7	2		2		69	10		
83	30	LACLEDE STA.	1	1	1		2								50	6		
85	30	GRANT		1	1							1		9	81.5	12	2	
87	30	MUSICK	1	1										9	34.5	4		
89	30	BAPTIST CHURCH	1	1	1		2							7	42.5	5		
91	30	EDDIE & PARK	1	1	1		2							7	36	4		
93	30	SAPPINGTON												12	64.5	7		
22	30	RTE 61/67												12				
95	30	GEYER	1	1	1									12	65	8		
97	30	NB 270			1									13	9	1		
99	30	SB 270	1		1									15	24	3		
101	30	WEBER HILL	1	1										21	55.5	6		
103	30	RAHNING			1		2							10	84	10		
105	30	GRAVOIS BLUFFS		1			10								45.5	6		
		PAY TOTALS	9	11	14	1	18	2	1	7	2	1	2	184	931	116	2	

SIGNAL POSTS AND MAST ARMS

PLAN SHEET NO.	RDWY	LOC	BASE, CONCRETE C.Y.	POST TOP MOUNT 8 FT. EA.	POST TOP MOUNT 15 FT. EA.	POST TYPE C 20 FT ARM EA.	POST TYPE C 40 FT ARM EA.	POST TYPE B 55 FT ARM EA.	REMARKS
75	30	RT 21	2						
78	30	VALCOUR	12.7	1	1	1	1	1	
83	30	LACLEDE STA.	2						
87	30	MUSICK	2						
89	30	BAPTIST CHURCH	2						
91	30	EDDIE & PARK	2						
95	30	GEYER	2						
99	30	SB 270	2						
101	30	WEBER HILL	2						
		TOTALS	28.7	1	1	1	1	1	
		PAY TOTALS	29	1	1	1	1	1	

TRAFFIC SIGNAL MAINTENANCE AND PROGRAMMING- 1 LUMP SUM

* SEE ELECTRONIC DELIVERABLE J6S3281 LINDBERGH SIGNAL PLAN FOR EXIST. SIGNAL LAYOUT.

SUMMARY OF QUANTITIES
SHEET 10 OF 12

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 3:34:31 PM
STUART ROBINSON MCNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/29/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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 QUANTITIES

PLAN SHEET NO.	ROUTE	LOCATION	FIBER OPTIC CABLE 24 STRAND L.F.	CCTV CAMERA ASSEMBLY EA.	INSTALL CCTV CAMERA ASSEMBLY EA.	WALL-MOUNT FIBER INTERCONNECT CENTER EA.	SM FIBER OPTIC PIGTAIL EA.	SM FIBER OPTIC JUMPER EA.	FUSION SPLICE EA.	#6 AWG CONDUCTORS L.F.	#6 AWG BARE GROUND L.F.	MULTIMODE FIBER OPTIC DMS CONTROL CABLE L.F.	RELOCATE EXIST. COMMUNICATIONS EQUIPMENT EA.	INSTALL MODOT FURNISHED IP-ADDRESSABLE POWER SUPPLY EA.	REMARKS
69	30	HEEGE RD	0	0	0	1	4	4	26				1	1	
75	30	ROUTE 21	0	0	0	1	4	4	20				1	1	
78	30	VALCOUR AVE	0	1	1	1	4	4	20				1	1	
83	30	LACLEDE STATION RD	0	0	0	1	4	4	20				1	1	
85	30	GRANT RD	1465	0	0	4	2	0	18				0	0	
87	30	MUSICK AVE	SEE GRANT RD.	0	0	1	4	4	20				1	0	
89	30	BAPTIST CHURCH RD	0	0	0	1	4	4	20				1	0	
91	30	EDDIE & PARK DR	0	0	0	1	4	4	20				1	1	
22	30	RTE 61/67	SEE GEYER RD.	0	0	0	0	0	24				0	0	
95	30	GEYER RD	1950	0	0	1	6	6	28				1	0	
97	30	I-270 EB RAMP	0	0	0	1	4	4	28				1	0	
99	30	I-270 WB RAMP	0	1	1	0	0	0	0				0	0	
101	30	WEBER HILL RD	0	0	0	1	4	4	26				1	1	
180	30	STA 301+00.00								210	70	130			
		TOTAL	3585.75	2	2	14	44	42	270	210	70	130	10	6	
		PAY TOTAL	3590	2	2	14	44	42	270	210	70	130	10	6	

SIGNAL DETECTION

PLAN SHEET NO.	RDWY	LOC	SL DISTRICT TRAFFIC SIGNAL VIDEO DETECTION SYSTEM (3 CAMERAS) EA.	SL DISTRICT TRAFFIC SIGNAL VIDEO DETECTION SYSTEM (4 CAMERAS) EA.	SL DISTRICT TRAFFIC SIGNAL VIDEO DETECTION SYSTEM (8 CAMERAS) EA.	SL DISTRICT TRAFFIC SIGNAL VIDEO DETECTION SYSTEM (10 CAMERAS) EA.	SL DISTRICT TRAFFIC SIGNAL ADVANCED DETECTION SYSTEM (2 UNITS) EA.
67	30	SEIBERT	1				1
69	30	HEEGE	1				1
71	30	WEBER		1			1
73	30	MACKENZIE		1			1
75	30	RT 21		1			1
78	30	VALCOUR		1			1
83	30	LACLEDE STA.	1				1
85	30	GRANT		1			1
87	30	MUSICK	1				1
89	30	BAPTIST CHURCH	1				1
91	30	EDDIE & PARK	1				1
93	30	SAPPINGTON			1		1
95	30	GEYER		1			1
97	30	NB 270	1				1
99	30	SB 270	1				1
101	30	WEBER HILL		1			1
103	30	RAHNING		1			1
105	30	GRAVOIS BLUFFS				1	1
		PAY TOTALS	8	8	1	1	18

LIGHTING CABLES AND CONDUITS

PLAN SHEET NO.	ROUTE	LOCATION	3" CONDUIT (PUSHED) L.F.	4" CONDUIT (PUSHED) L.F.	1c#8 CABLE-CONDUIT (PUSHED) L.F.	1c#8 CABLE-CONDUIT (TRENCHED) L.F.	TYPE I TRENCHING L.F.	TYPE II TRENCHING L.F.	1c#10 CABLE L.F.	CLASS 1 LIGHTING PULL BOX EA.	CLASS 3 LIGHTING PULL BOX EA.	REMARKS
65	30	RTE 30 @ VALCOUR AVE	129	12.0	372	0.0	7	1	180	2	1	
66	30	RTE 30 @ I-270 SB RAMP	0	0	0	238	194	19	90	0	0	
		TOTAL	129	12	390.6	249.9	201	20	283.5	2	1	5% ADDED FOR 1c#8
		PAY TOTAL	129	12	640		201	20	280	2	1	CABLE FOR SNAKING

ARTERIAL DYNAMIC MESSAGE SIGN REPLACEMENT- 2 EACH

CCTV EXTENSION POLE, 20' METALLIC FINISH- 1 EACH

SUMMARY OF QUANTITIES
SHEET 11 OF 12

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 3:34:41 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED 9/26/2025
ROUTE 30 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. JSL0081
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)

EFFECTIVE: 07-01-2024

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00	1	16				YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00						BE PREPARED TO STOP
WO3-5	48X48	16.00						SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00	1	16				MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00						MERGE (LEFT)
WO4-1aR	48X48	16.00						MERGE (RIGHT)
WO5-1	48X48	16.00	1	16				ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00						NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00						UNEVEN LANES
WO8-12	48X48	16.00						NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	4	64				ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00	1	16				DETOUR AHEAD
WO20-3	48X48	16.00						ROAD CLOSED AHEAD
WO20-4	48X48	16.00						ONE LANE ROAD AHEAD
WO20-5	48X48	16.00	6	96				RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00	6	96				RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00						FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00	2	32				SHOULDER WORK / SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19	3	6.57				WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00	4	40				ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00	4	32				END ROAD WORK
GO20-4	36X18	4.50						PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00	2	12				WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00	1	3				END DETOUR
MO4-9L	48X36	12.00						DETOUR (LEFT)
MO4-9R	48X36	12.00						DETOUR (RIGHT)
MO4-9P	48X12	4.00						STREET NAME (PLAQUE)
MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)
MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93	1	6.93				YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00	12	144				SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25	1	6.25				RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00	1	2				SIDEWALK CLOSED
R9-11L	24X18	3.00	1	3				SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00	1	3				SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00	1	6				STOP HERE ON RED (45^ ARROW)
R11-2	48X30	10.00	2	20				ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
MISCELLANEOUS SIGNS								
CONST-5	96X48	32.00						POINT OF PRESENCE
W11-2	36X36	9.00	4	36				PEDESTRIAN CROSSING
W16-7P	21X15	2.19	2	4.38				DOWN ARROW
W16-9P	30X18	3.75	2	7.5				AHEAD
R9-10	24X18	3	2	6				SIDEWALK CLOSED- OTHER SIDE
SPECIAL	36X24	6						WORK ZONE- NO PHONE ZONE
SPECIAL	78x36	19.5	2	39				MO4-11 DETOUR WEST TURN LEFT
SPECIAL	78x36	19.5	1	19.5				MO4-11 DETOUR WEST TO LEFT
SPECIAL	78x36	19.5	3	58.5				MO4-11 DETOUR WEST TO RIGHT
SPECIAL	78x36	19.5	5	97.5				MO4-11 DETOUR WEST STRAIGHT
SPECIAL	78x36	19.5	2	39				MO4-11 DETOUR EAST TURN LEFT
SPECIAL	78x36	19.5	1	19.5				MO4-11 DETOUR EAST TO LEFT
SPECIAL	78x36	19.5	3	58.5				MO4-11 DETOUR EAST TO RIGHT
SPECIAL	78x36	19.5	2	39				MO4-11 DETOUR EAST STRAIGHT

616-10.05 CONSTRUCTION SIGNS	TOTAL
	1062

616-10.10 RELOCATED SIGNS	TOTAL
	0

+++ INDICATES THAT TMAs WILL BE REQUIRED FOR MOBILE OPERATIONS ON THIS PROJECT BUT AT NO DIRECT PAY. THE CONTRACTOR MAY USE TMAs AT STATIONARY LOCATIONS OF THEIR OWN CHOOSING BUT NO PAYMENT SHALL BE MADE FOR THESE TMAs.

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6123001	3+++	TRUCK MOUNTED ATTENUATOR (TMA)
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	280	CHANNELIZER (TRIM LINE)
6161030	45	TYPE III MOVEABLE BARRICADE
6161033	30	DIRECTION INDICATOR BARRICADE
6161040	5	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A	6**	CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED
6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400	1**	TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING
6169901	1**	MISC. ADA COMPLIANT MOVEABLE BARRICADE

TEMPORARY TRAFFIC CONTROL	PAY TOTAL = 1 LUMP SUM

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 12 OF 12

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 3:34:51 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/30/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

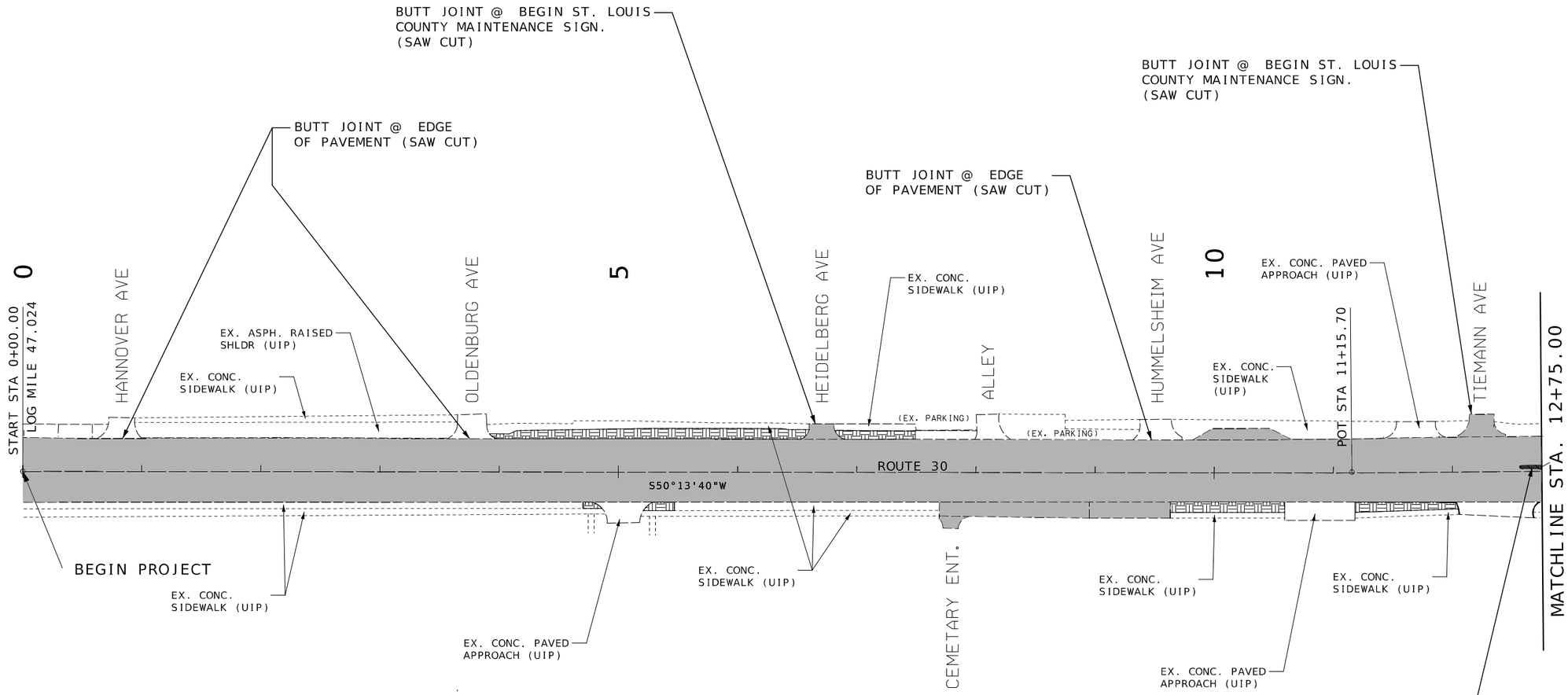
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SUMMARY OF QUANTITIES



LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
- 8" PAVED CONCRETE APPROACH
- 6" CONCRETE MEDIAN STRIP

SCALE

0 50 100 150

DISCLAIMER

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

09/29/2025 10:06:13 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/26/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	4

COUNTY: ST. LOUIS
JOB NO.: JSL0081
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

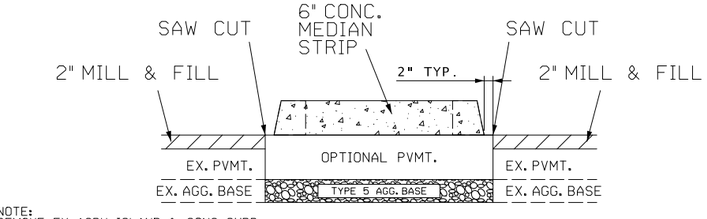
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEETS

6" MEDIAN STRIP CONSTRUCTION DETAIL

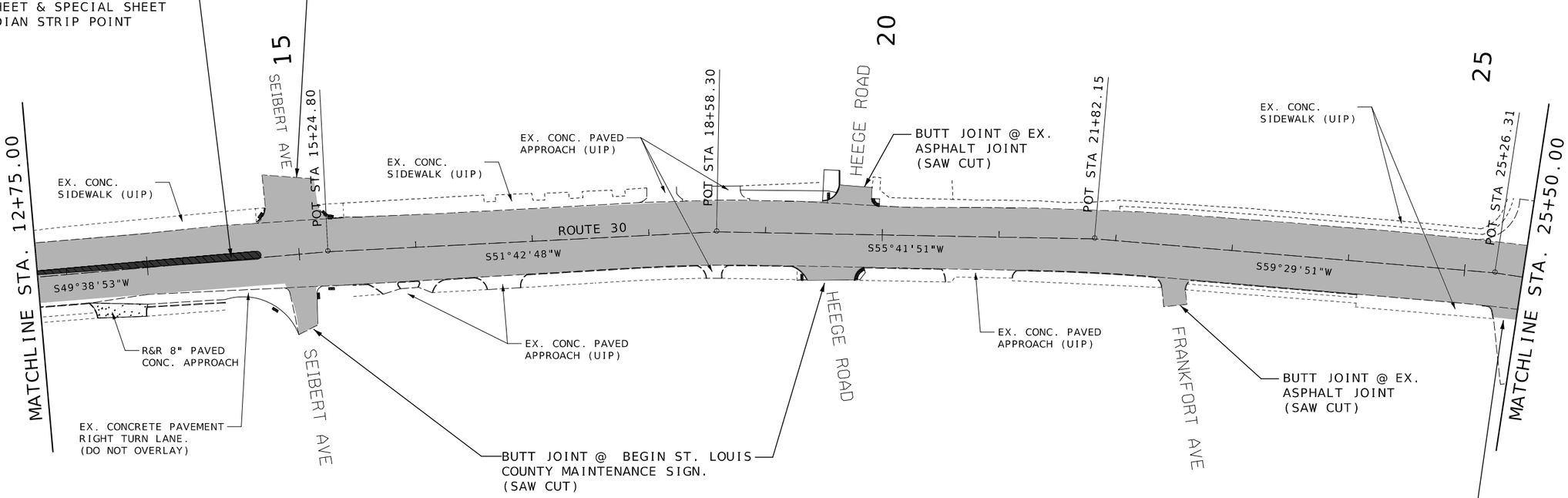


NOTE:
REMOVE EX. ASPH. ISLAND & CONC. CURB
PERFORM SUBGRADE AND SHOULDERING CLASS 1.
INSTALL OPTIONAL PVMT. 4" TYPE 5 AGG. BASE,
AND 6" CONC. MEDIAN STRIP

(R) ASPH. RAISED ISLAND
(R) EX. CONC. CURB

INSTALL TYPE 5 AGG. BASE, OPTIONAL PAVEMENT, AND 6" CONC. MEDIAN STRIP SEE CONSTRUCTION DETAIL THIS SHEET & SPECIAL SHEET FOR MEDIAN STRIP POINT DETAIL.

BUTT JOINT @ BEGIN ST. LOUIS COUNTY MAINTENANCE SIGN. (SAW CUT)



LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
- 8" PAVED CONCRETE APPROACH
- 6" CONCRETE MEDIAN STRIP

SCALE
0 50 100 150

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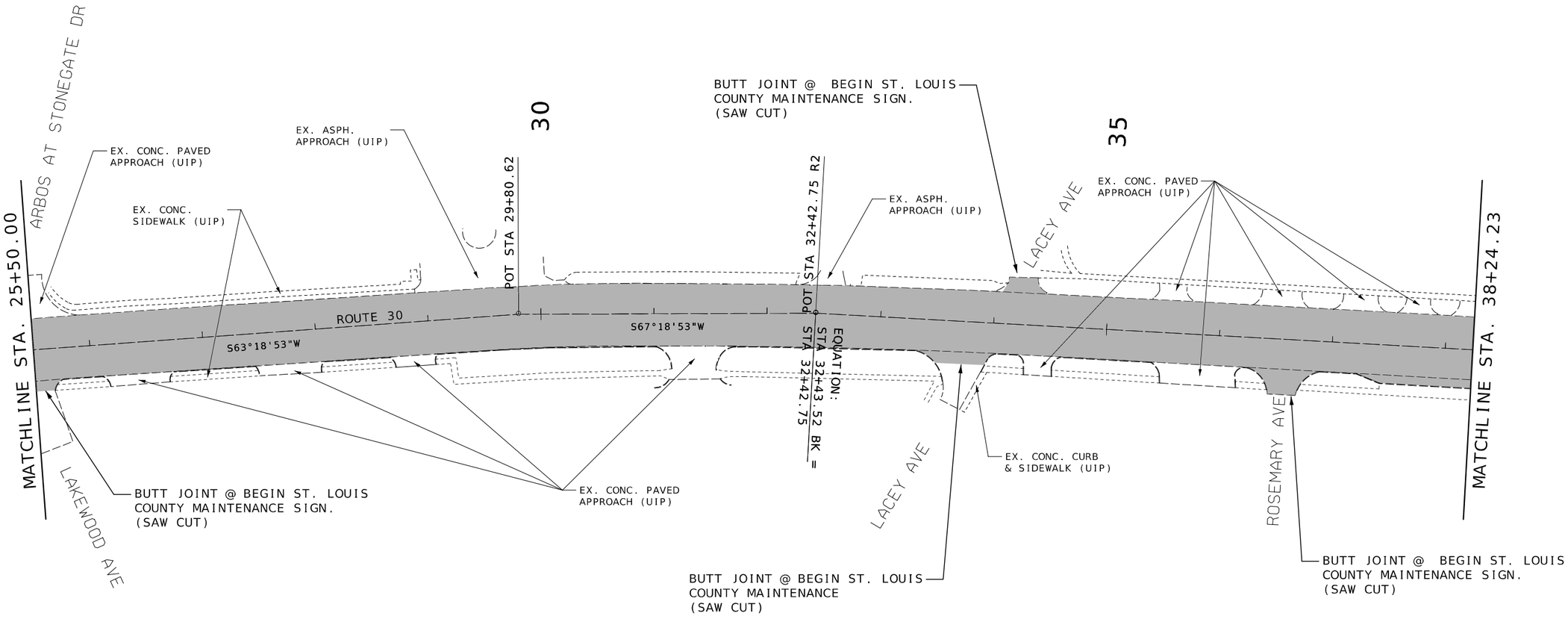
STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/29/2025 10:06:53 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/26/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 5
COUNTY: ST. LOUIS
JOB NO.: JSL0081
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



LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
- 8" PAVED CONCRETE APPROACH

SCALE

0 50 100 150

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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/29/2025 10:07:03 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/26/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	6

COUNTY: ST. LOUIS

JOB NO.: JSL0081

CONTRACT ID.:

PROJECT NO.:

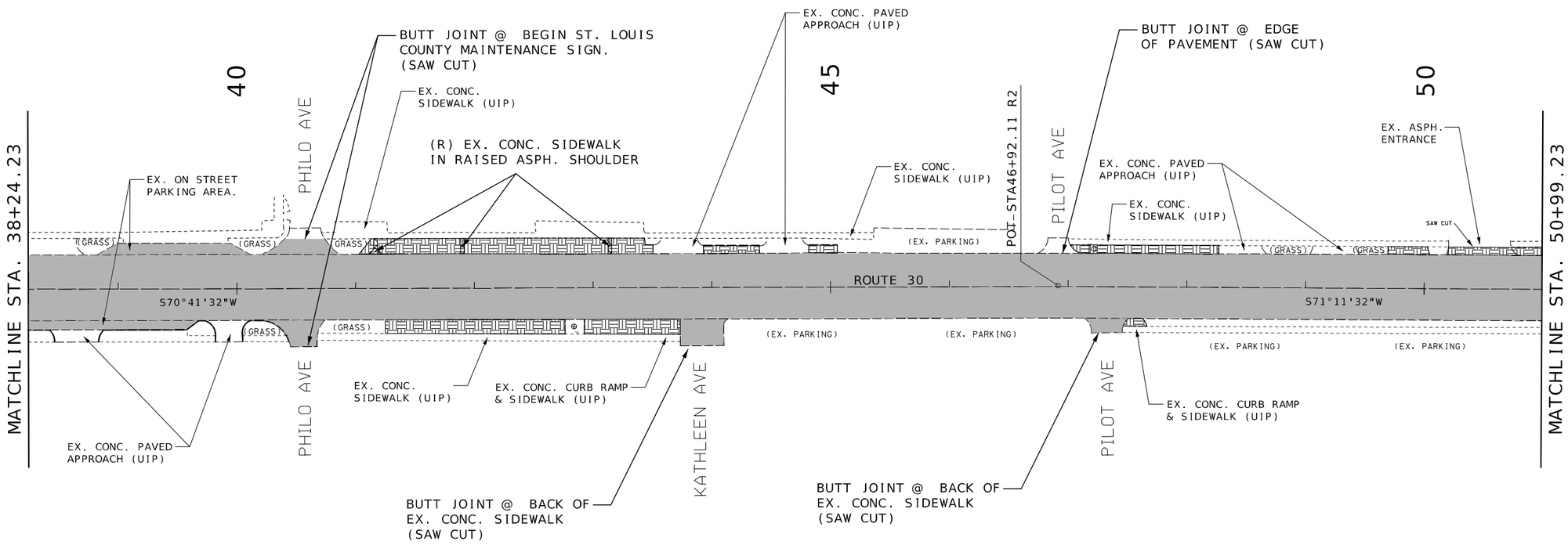
BRIDGE NO.:

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEETS



SCALE

0 50 100 150

LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
- 8" PAVED CONCRETE APPROACH

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

09/29/2025 10:07:15 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/26/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	7

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

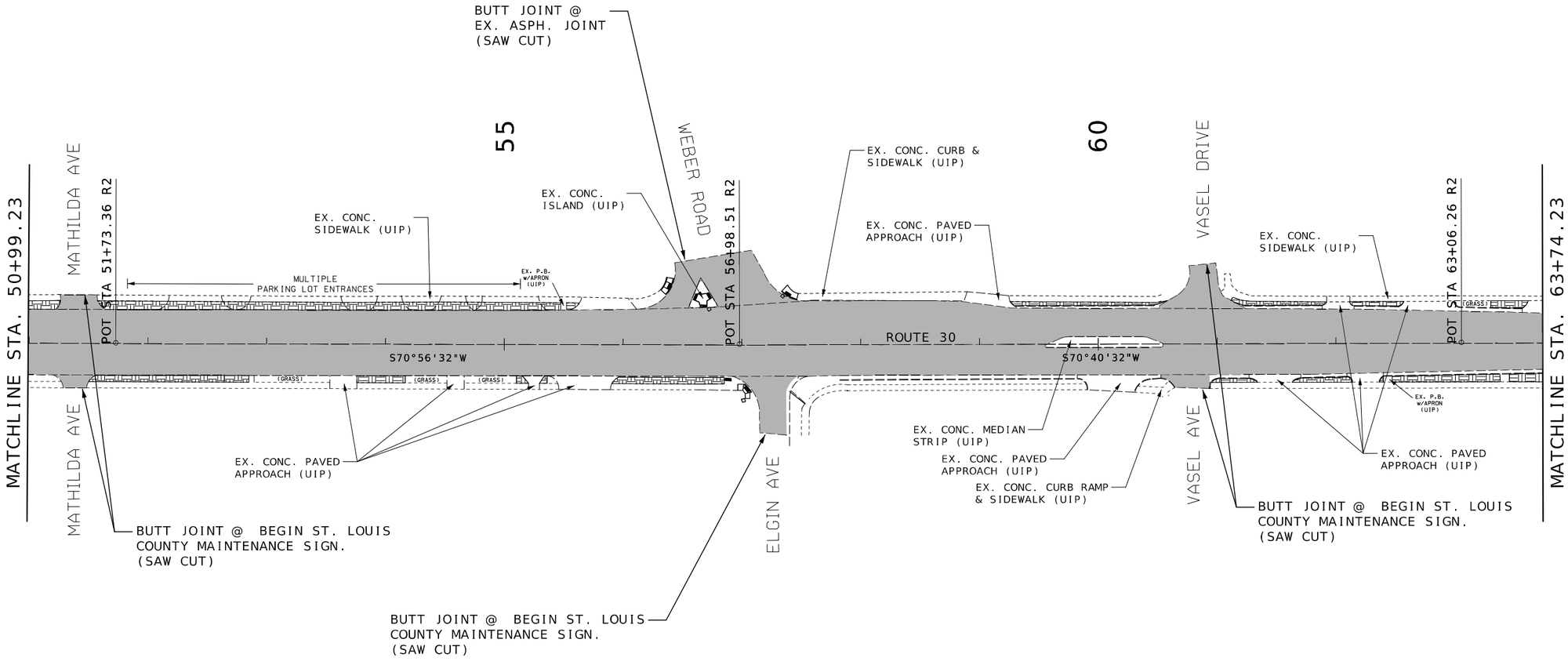
PROJECT NO.

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



LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
- 8" PAVED CONCRETE APPROACH

SCALE

0 50 100 150

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

09/29/2025 10:07:24 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/26/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	8

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

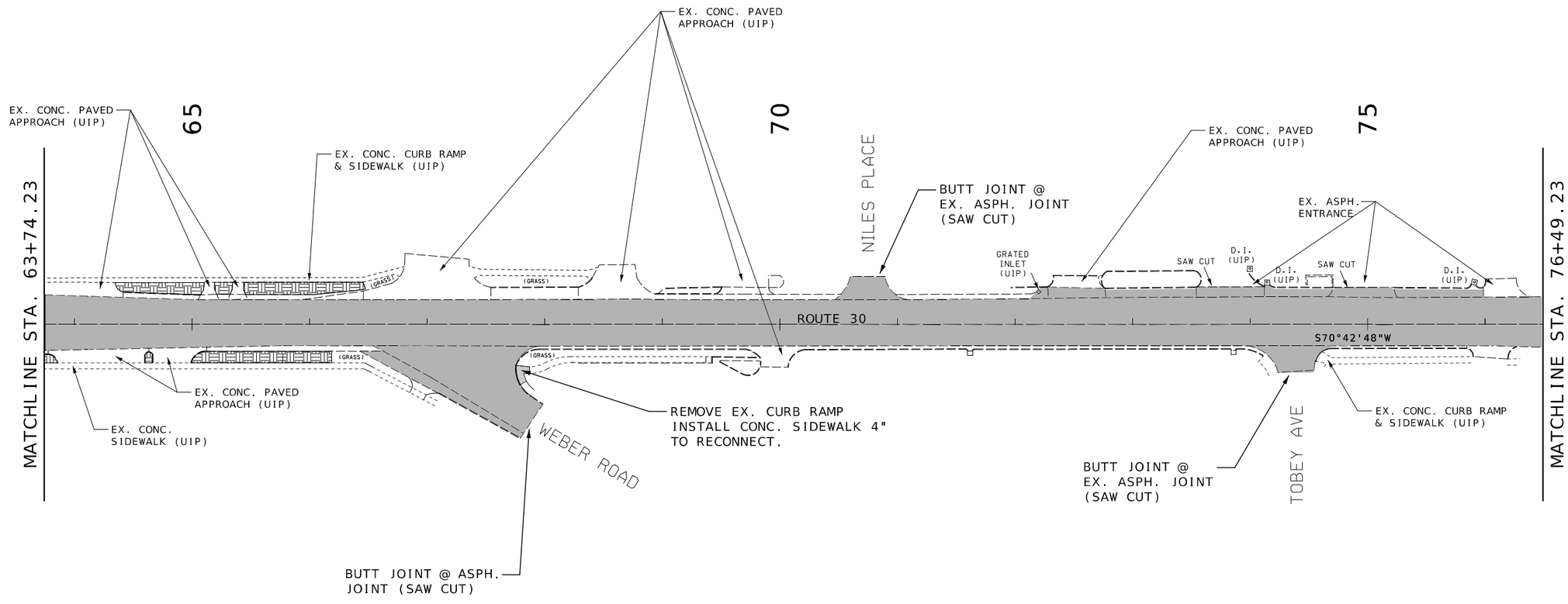
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEETS



LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
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SCALE

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

09/29/2025 10:07:53 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/26/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	9

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

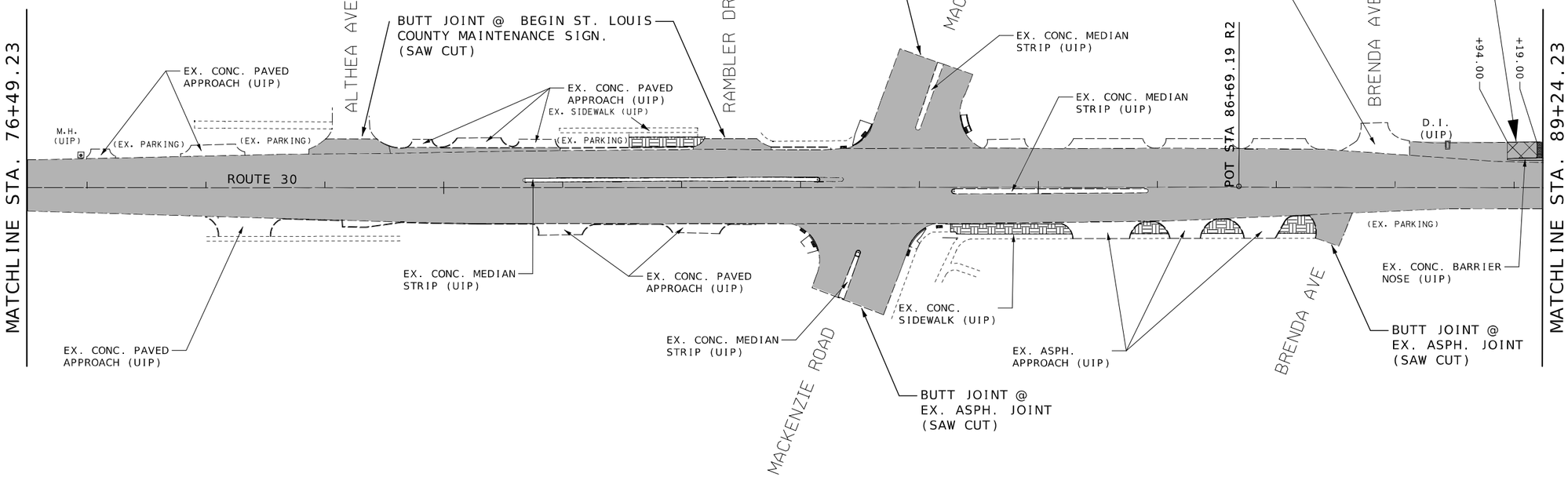
BRIDGE NO.

DESCRIPTION	DATE

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

PLAN SHEETS

LT STA 88+94 TO 89+19 (25')
TRANSITION FROM 1.75" MILL & FILL
TO 1" COLDMILLING WITH 1.75"
RESURFACING ON RAMP PAVEMENT.



LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
- 8" PAVED CONCRETE APPROACH

SCALE

0 50 100 150

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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/29/2025 10:08:09 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/26/2025

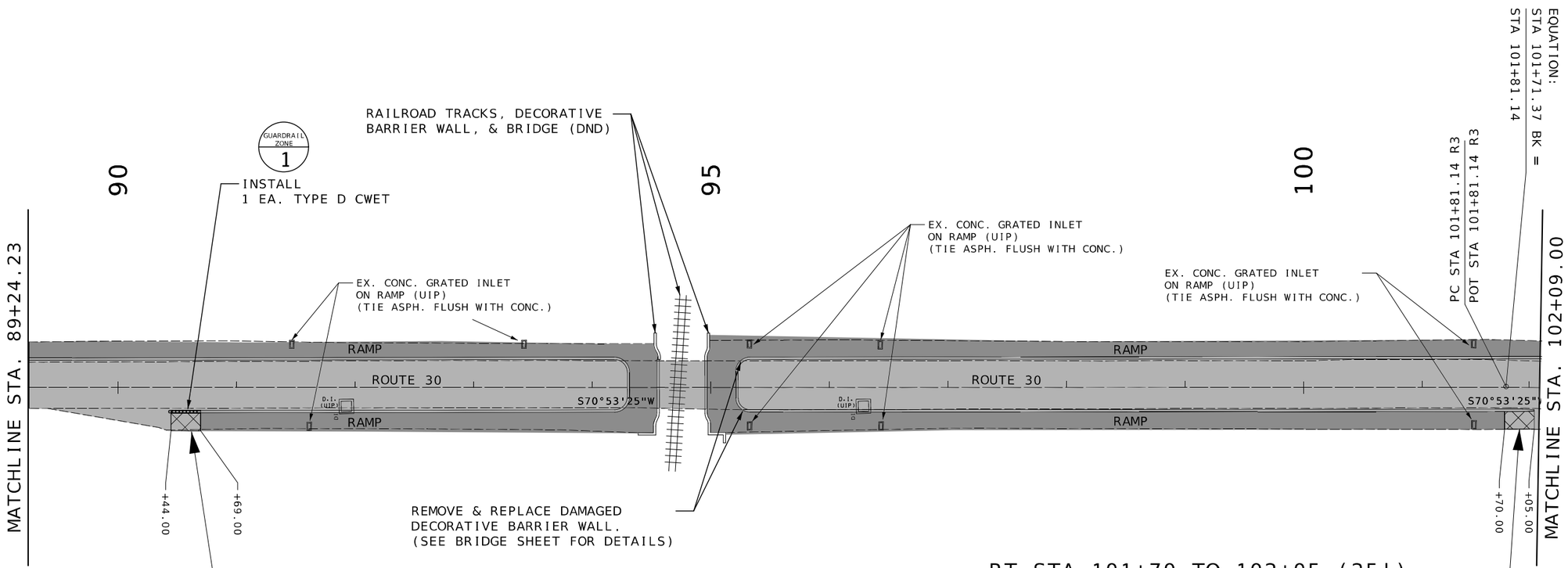
ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	10

COUNTY: ST. LOUIS
JOB NO.: JSL0081
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



RT STA 90+44 TO 90+69 (25')
TRANSITION FROM 1.75" MILL & FILL
TO 1" COLDMILLING WITH 1.75"
RESURFACING ON RAMP PAVEMENT.

RT STA 101+70 TO 102+05 (25')
TRANSITION FROM 1.75" MILL & FILL
TO 1" COLDMILLING WITH 1.75"
RESURFACING ON RAMP PAVEMENT.

LEGEND	
	1.75" MILL, 1.75" SP095CLP w/PG 70-22
	1.00" MILL, 1.75" SP095CLP w/PG 70-22
	1.75" MILL, 1.75" BP-2 W/PG 64-22
	BITUMINOUS FOG SEAL (SHOULDER)
	8" PAVED CONCRETE APPROACH

SCALE
0 50 100 150

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) 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.

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 10:33:23 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/18/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	11

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

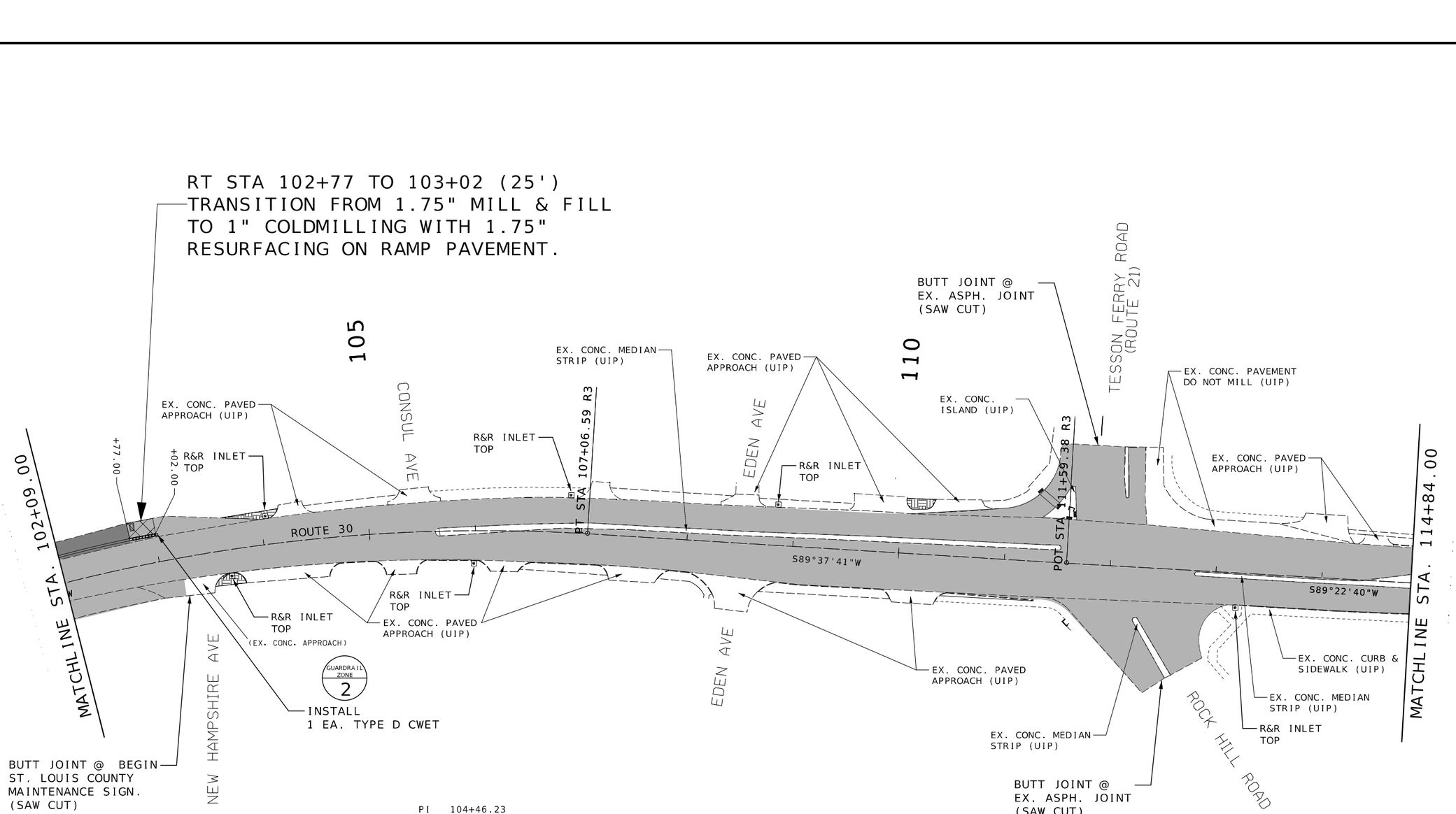
BRIDGE NO.

DESCRIPTION	DATE

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

PLAN SHEETS

RT STA 102+77 TO 103+02 (25')
TRANSITION FROM 1.75" MILL & FILL
TO 1" COLDMILLING WITH 1.75"
RESURFACING ON RAMP PAVEMENT.



PI 104+46.23
PC 101+81.14
PT 107+06.59
Δ 18°44'16.3" (RT)
D 3°33'57.9"
L 525.45' (ARC)
T 265.09'
R 1,606.68'

LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
- 8" PAVED CONCRETE APPROACH

SCALE
0 50 100 150

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 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.

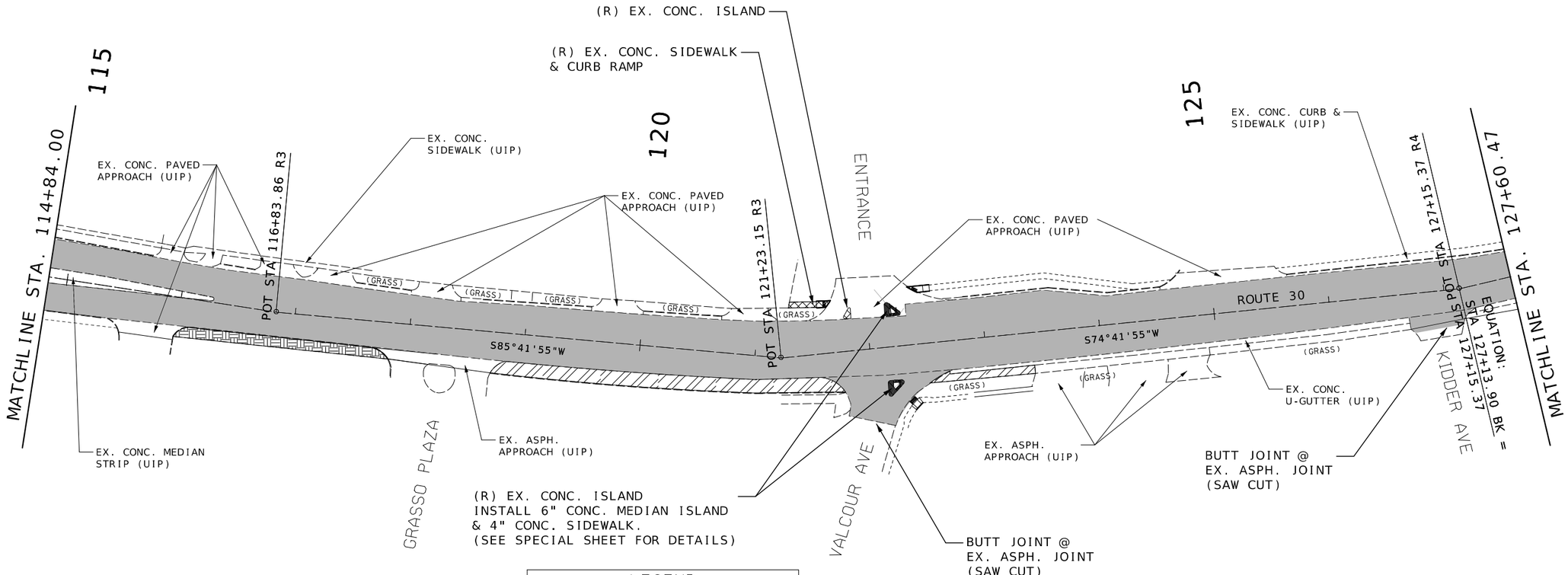
STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/29/2025 10:08:36 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED 9/26/2025
ROUTE 30 | STATE MO
DISTRICT SL | SHEET NO. 12
COUNTY ST. LOUIS
JOB NO. JSL0081
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



LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
- 8" PAVED CONCRETE APPROACH
- 6" CONCRETE MEDIAN STRIP

SCALE

0 50 100 150

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) 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.

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 10:46:24 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/26/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	13

COUNTY: ST. LOUIS

JOB NO.: JSL0081

CONTRACT ID.:

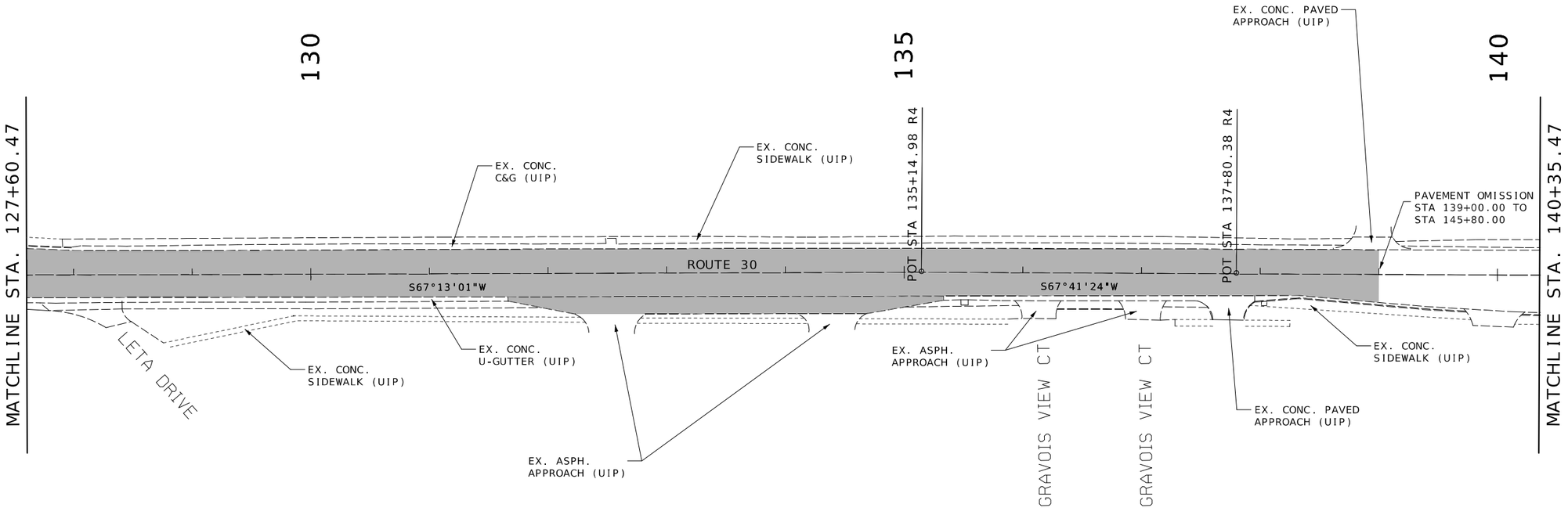
PROJECT NO.:

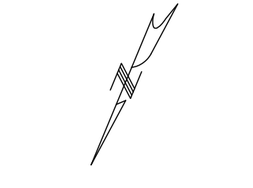
BRIDGE NO.:

DESCRIPTION	DATE

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

PLAN SHEETS





LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
- 8" PAVED CONCRETE APPROACH

DISCLAIMER
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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 10:45:39 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/26/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	14

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

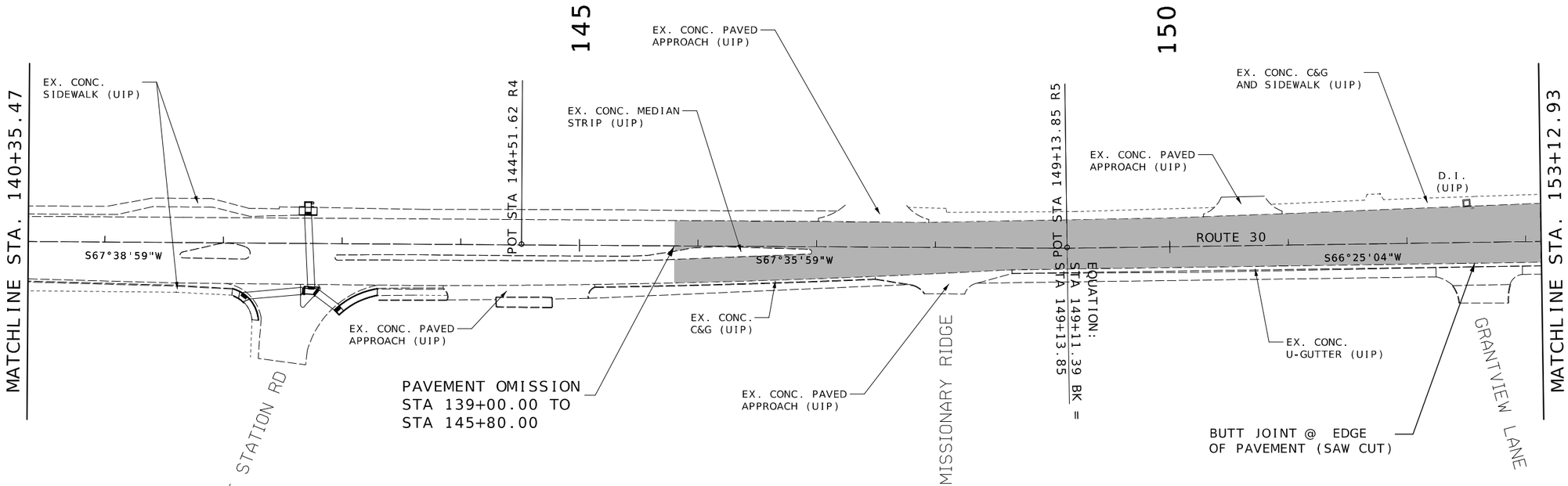
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEETS



LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
- 8" PAVED CONCRETE APPROACH

SCALE

0 50 100 150

DISCLAIMER

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

09/30/2025 10:46:14 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/26/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	15

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

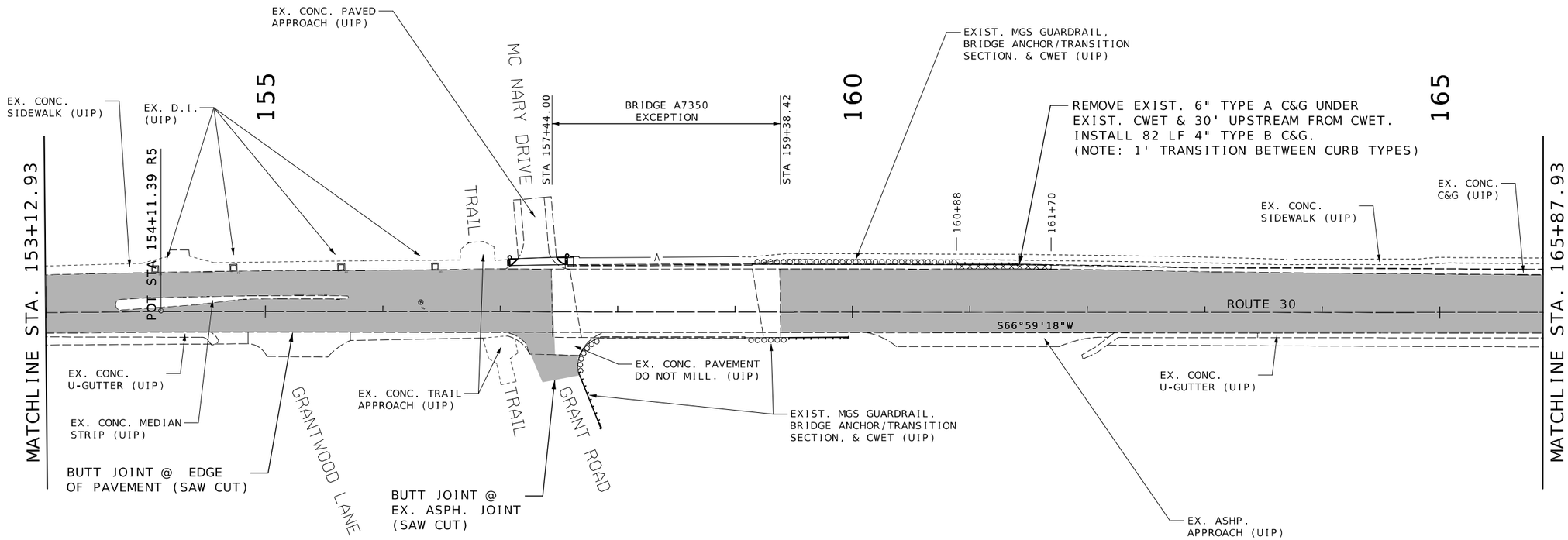
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEETS



SCALE

0 50 100 150

LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
- 8" PAVED CONCRETE APPROACH

DISCLAIMER

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

09/30/2025 10:46:00 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/26/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	16

COUNTY: ST. LOUIS

JOB NO.: JSL0081

CONTRACT ID.:

PROJECT NO.:

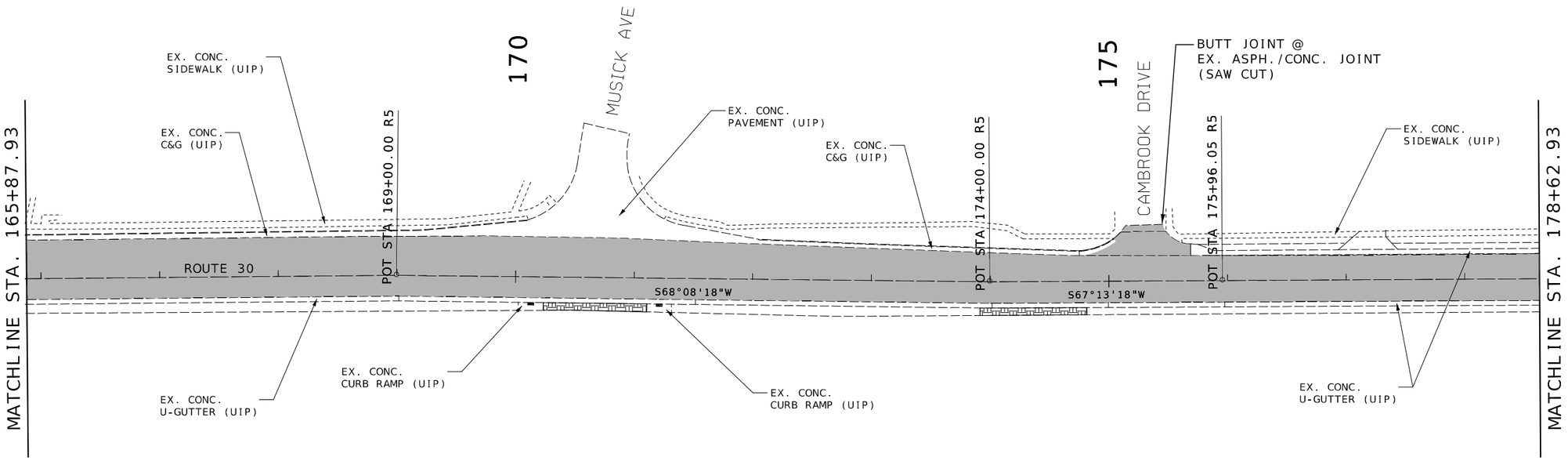
BRIDGE NO.:

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEETS





LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
- 8" PAVED CONCRETE APPROACH

DISCLAIMER
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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 10:45:47 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/26/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	17

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

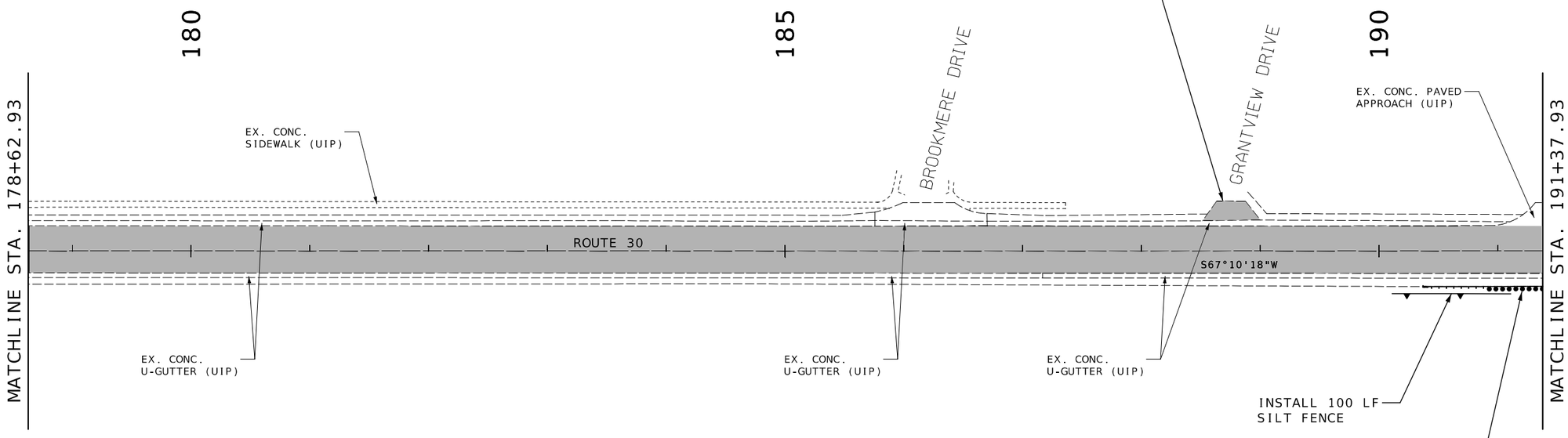
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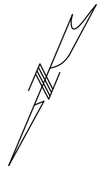
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEETS





SCALE

0 50 100 150

LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
- 8" PAVED CONCRETE APPROACH

DISCLAIMER

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

09/30/2025 10:46:07 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/26/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	18

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

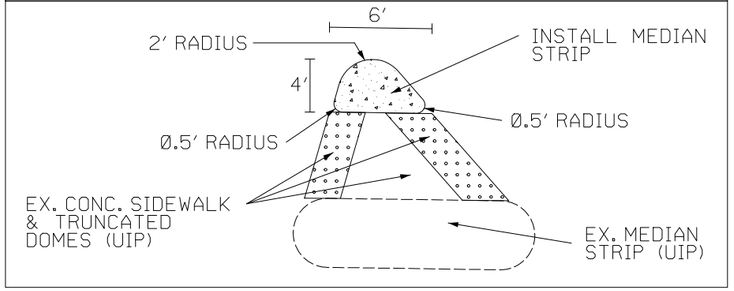
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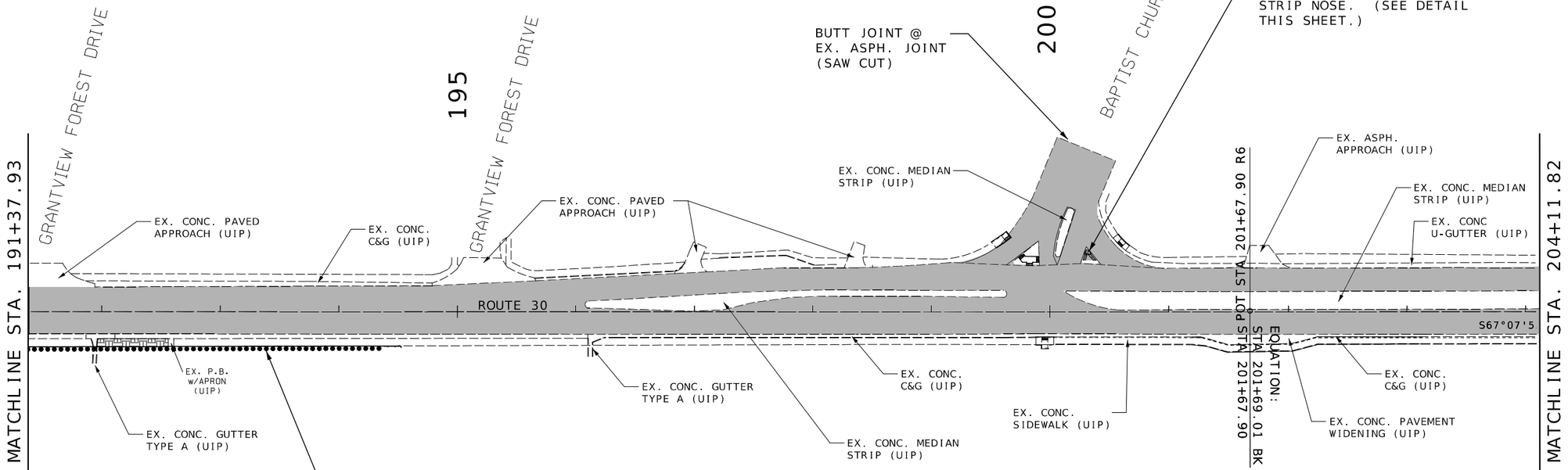
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEETS

MEDIAN STRIP NOSE DETAIL





NEED TO SPAN EX. TYPE A GUTTER (25' MAX)

STA 191+38.75 — 112.5' LONG SPAN GUARDRAIL SECTION — STA 192+51.25

GUARDRAIL ZONE 3

INSTALL (GOING AHEAD STATION)
1 EA. CWET (MASH)
50 LF MGS GUARDRAIL
1 EA. MGS LONG SPAN GUARDRAIL
187.5 LF MGS GUARDRAIL
1 EA. MGS END ANCHOR

LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
- 8" PAVED CONCRETE APPROACH

SCALE

0 50 100 150

DISCLAIMER

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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 10:38:39 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/19/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	19

COUNTY: ST. LOUIS
JOB NO.: JSL0081
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

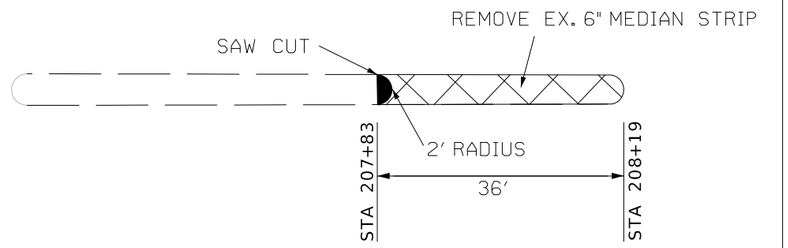
DESCRIPTION | DATE

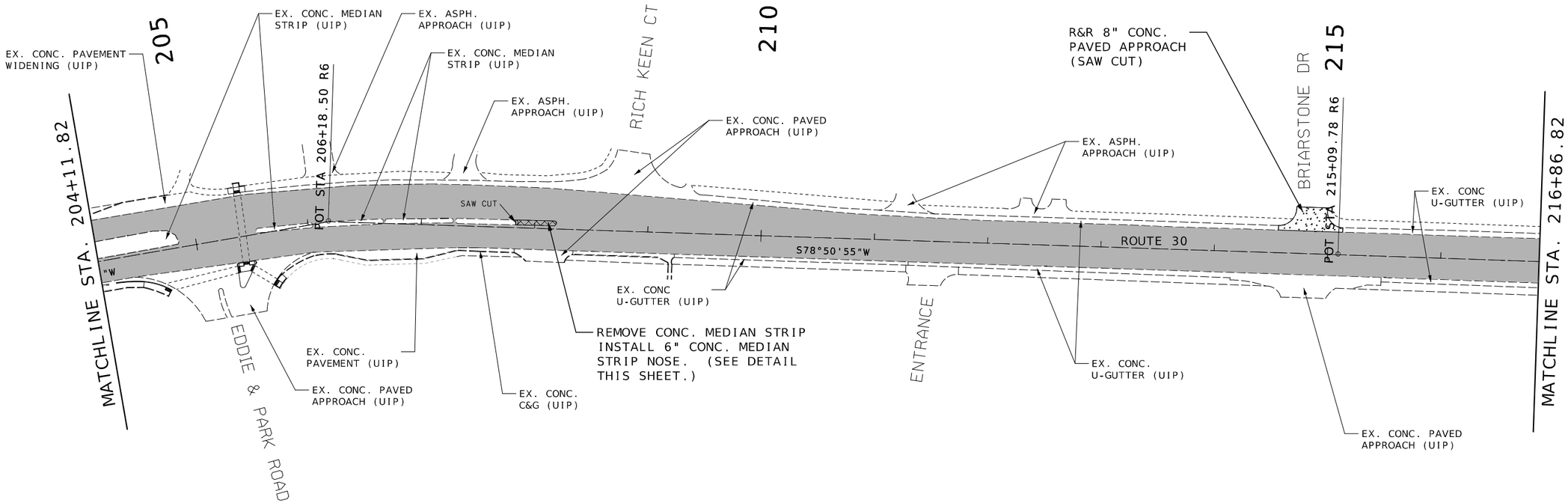
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEETS

MEDIAN STRIP REMOVAL DETAIL





SCALE

0 50 100 150

LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
- 8" PAVED CONCRETE APPROACH

DISCLAIMER
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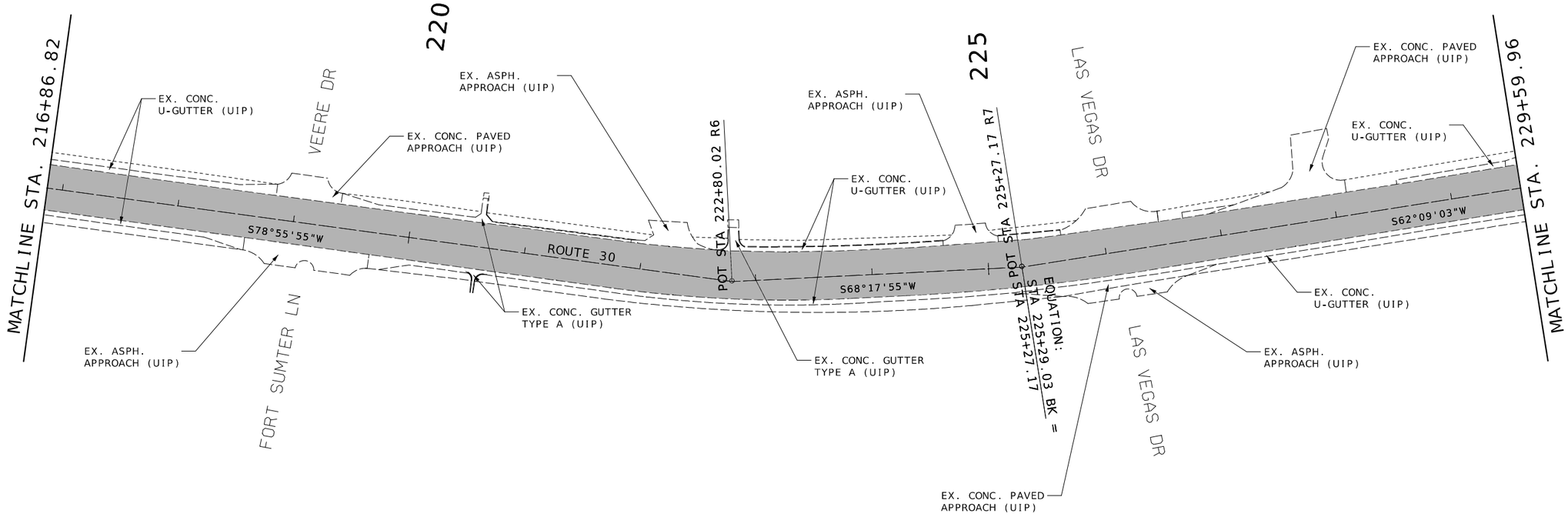
STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 10:46:33 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/26/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 20
COUNTY: ST. LOUIS
JOB NO.: JSL0081
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



LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
- 8" PAVED CONCRETE APPROACH

SCALE

0 50 100 150

DISCLAIMER

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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 10:46:41 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/26/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	21

COUNTY: ST. LOUIS

JOB NO.: JSL0081

CONTRACT ID.:

PROJECT NO.:

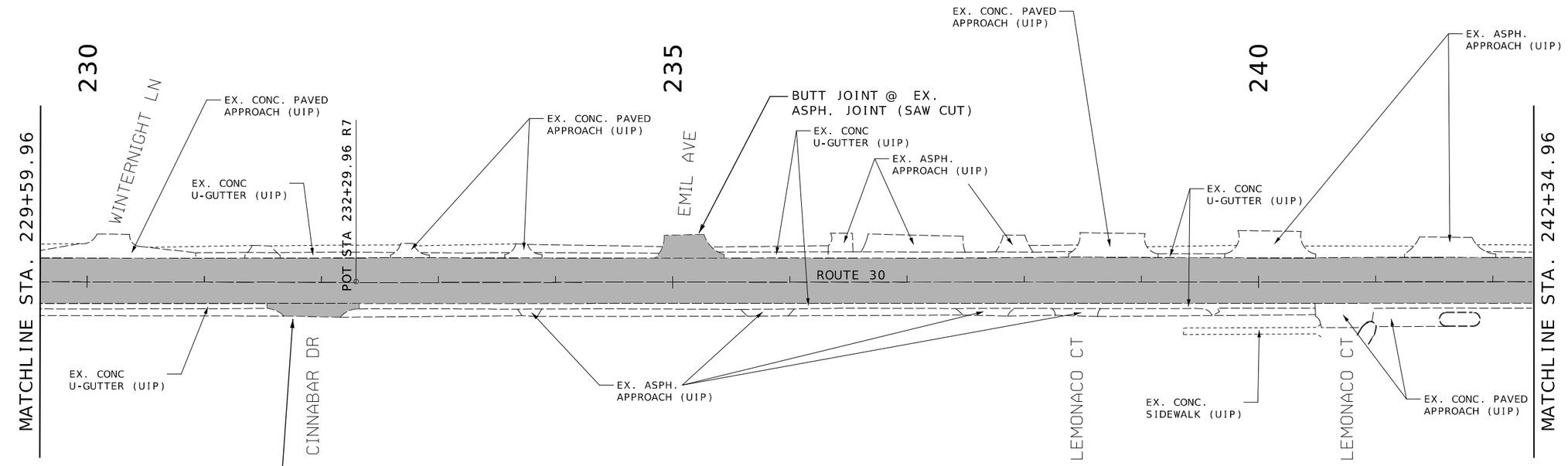
BRIDGE NO.:

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEETS





SCALE

0 50 100 150

LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
- 8" PAVED CONCRETE APPROACH

DISCLAIMER

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

Stuart McNeil

08/21/2025 10:39:25 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/18/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	22

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

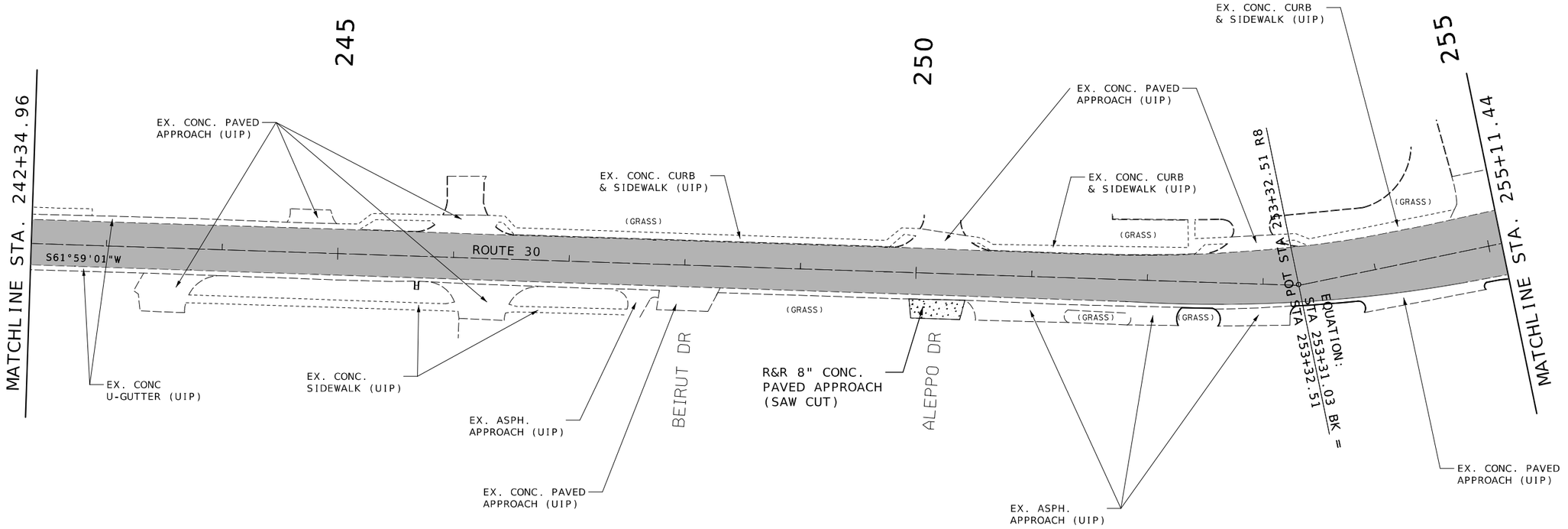
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEETS



LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
- 8" PAVED CONCRETE APPROACH

SCALE

0 50 100 150

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) 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.

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 11:14:23 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/18/2025

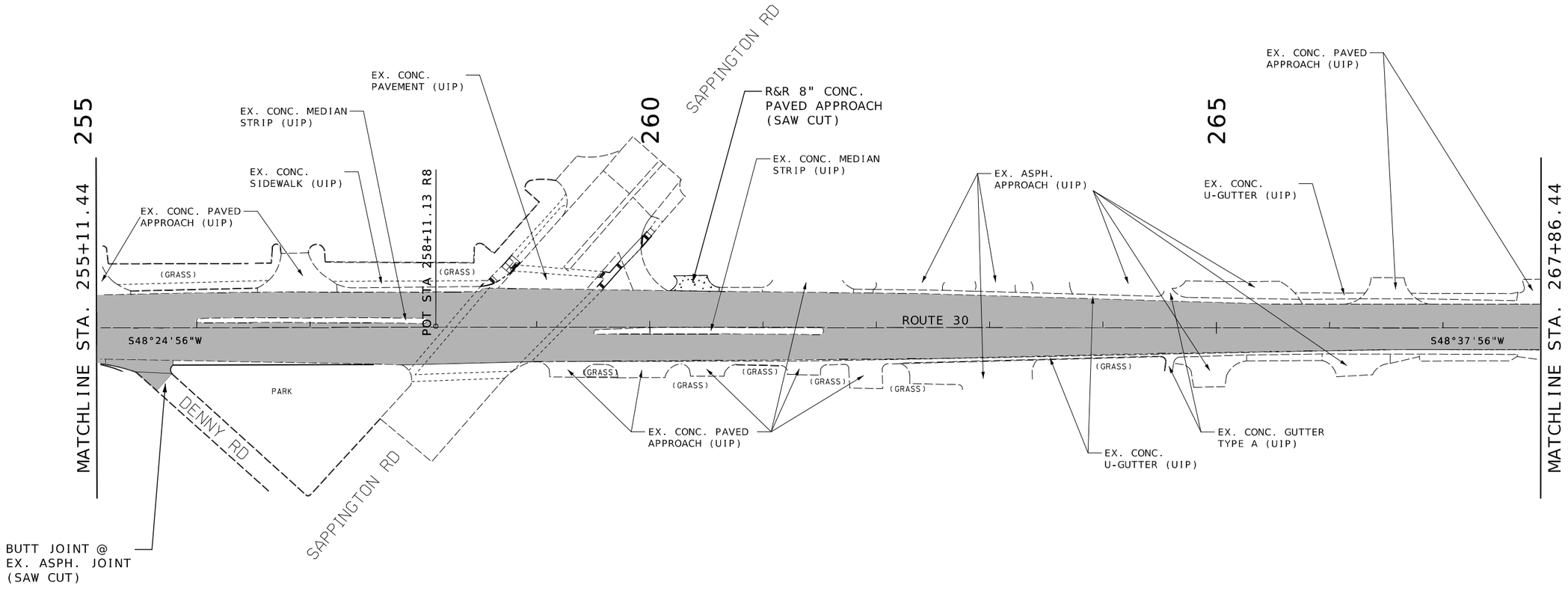
ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	23

COUNTY: ST. LOUIS
JOB NO.: JSL0081
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



LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
- 8" PAVED CONCRETE APPROACH

SCALE

0 50 100 150

DISCLAIMER

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

08/21/2025 11:14:53 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/18/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	24

COUNTY: ST. LOUIS

JOB NO.: JSL0081

CONTRACT ID.:

PROJECT NO.:

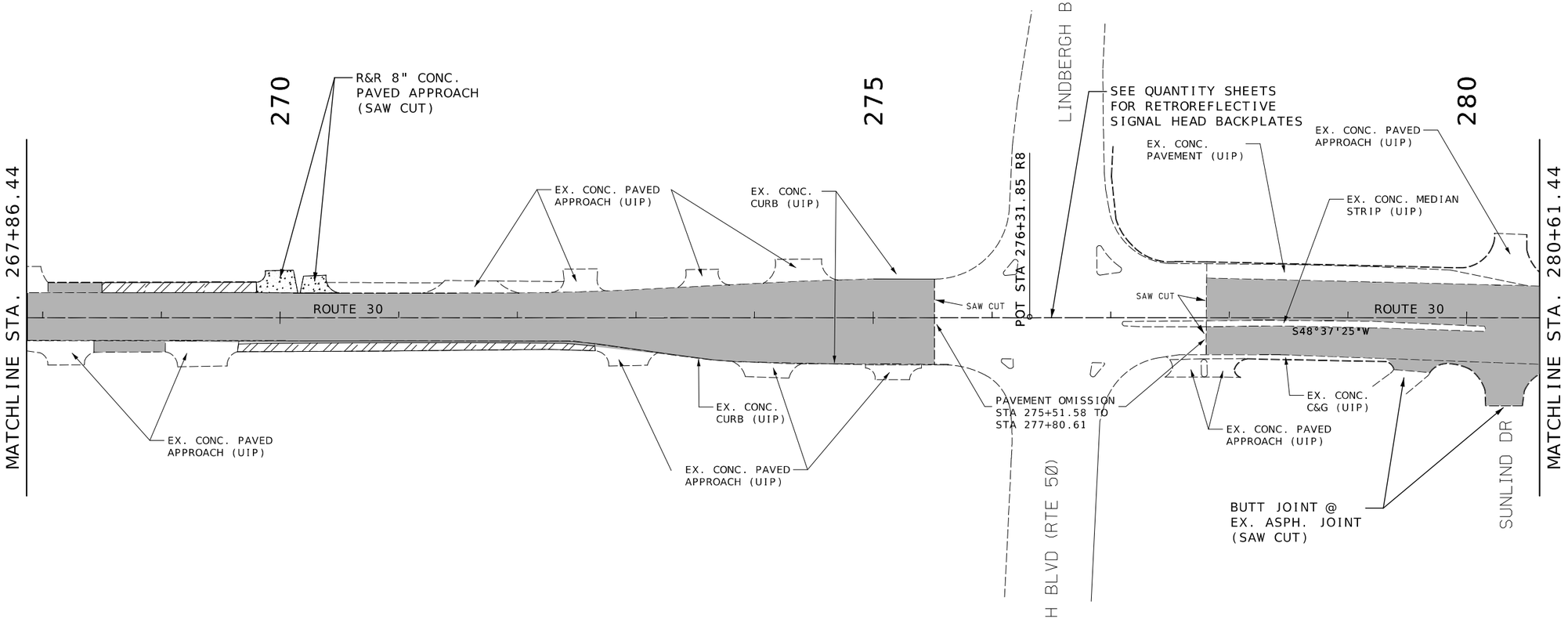
BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEETS



LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
- 8" PAVED CONCRETE APPROACH

SCALE

0 50 100 150

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

09/30/2025 10:59:05 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/26/2025

ROUTE	STATE
30	MO

DISTRICT	SHEET NO.
SL	25

COUNTY: ST. LOUIS

JOB NO.: JSL0081

CONTRACT ID.:

PROJECT NO.:

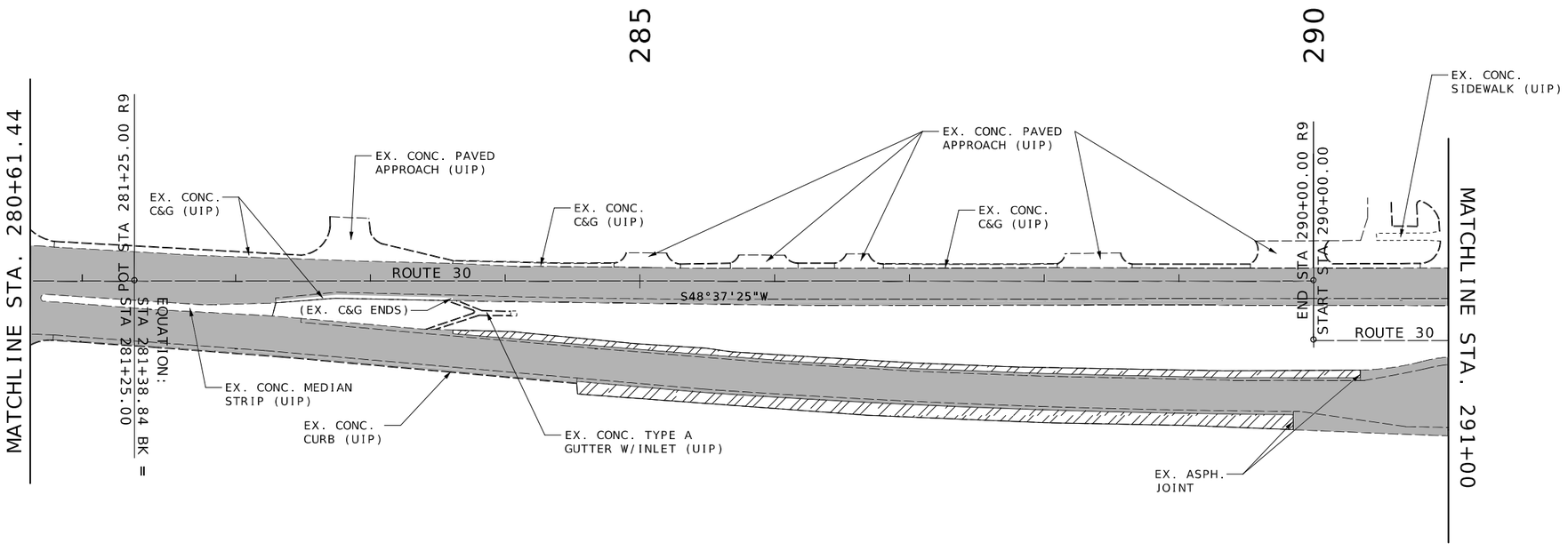
BRIDGE NO.:

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEETS



SCALE

0 50 100 150

LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER

08/21/2025 11:15:31 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/18/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	26

COUNTY: ST. LOUIS

JOB NO.: JSL0081

CONTRACT ID.:

PROJECT NO.:

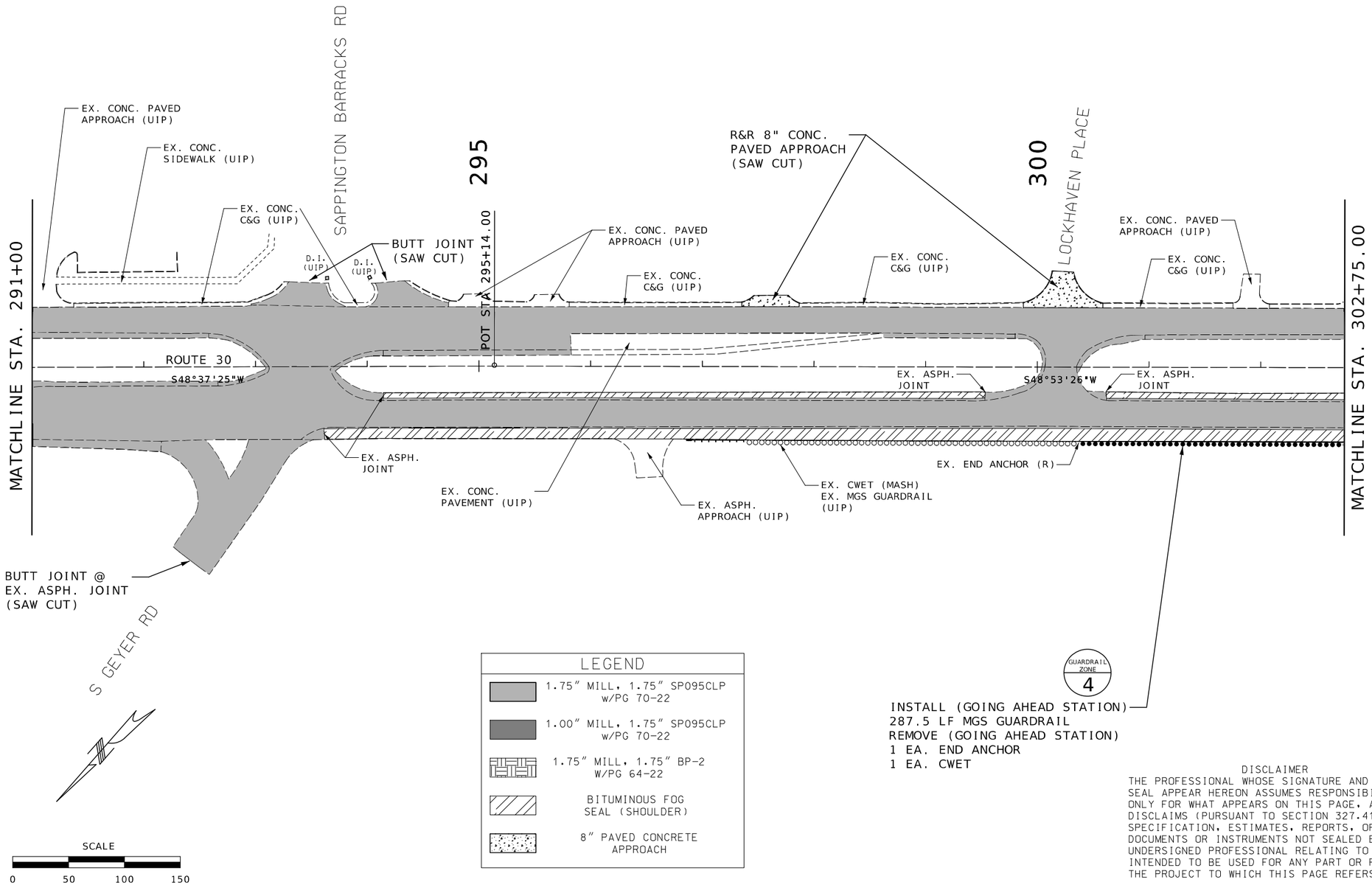
BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEETS



DISCLAIMER
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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 11:15:45 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/18/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	27

COUNTY: ST. LOUIS
JOB NO.: JSL0081
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

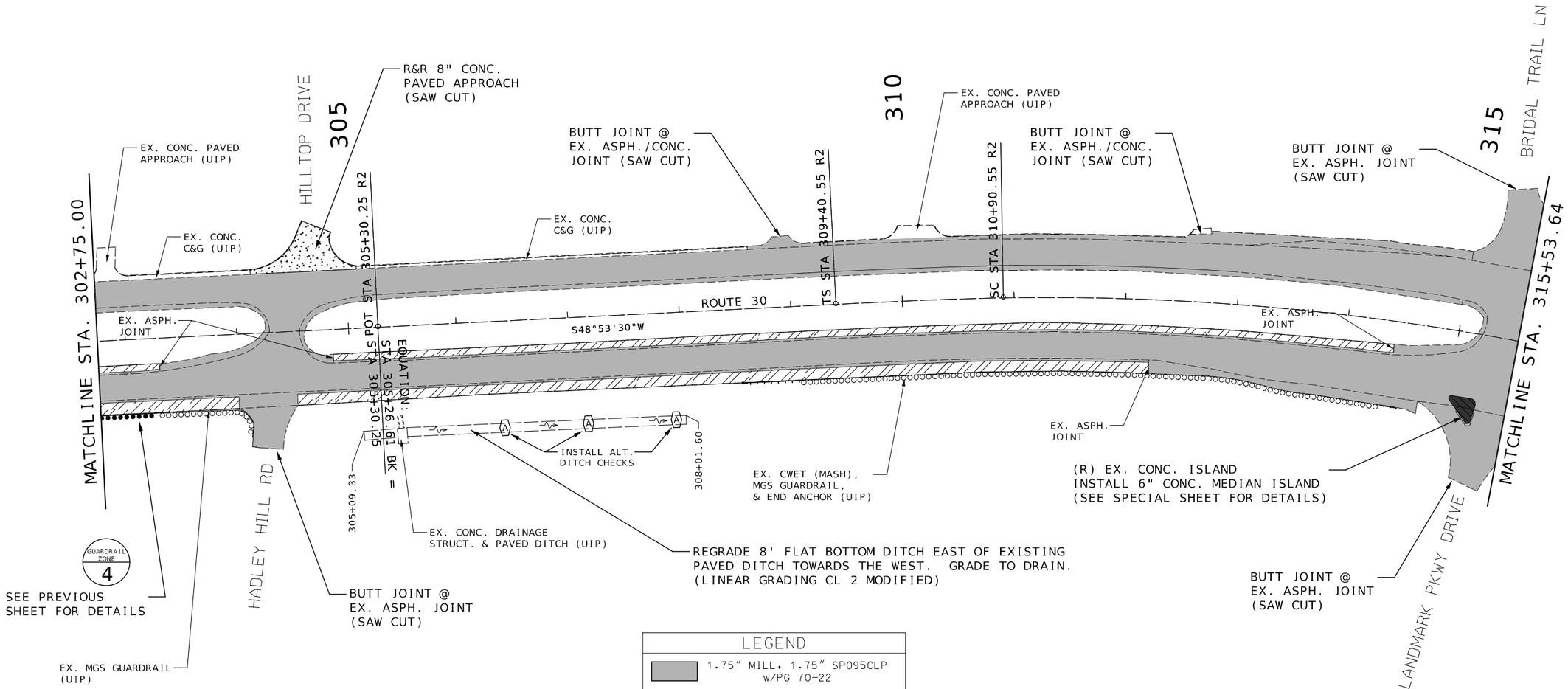
DESCRIPTION	DATE

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

PLAN SHEETS

PI 310+40.55
Ls 150.00'
Ys 1.64'
Xs 149.98'
LT 100.01'
ST 50.01'

PI 315+34.17
PC 310+90.55
PT 319+66.96
Δ 21°54'31.5" (RT)
D 2°29'59.3"
L 876.41' (ARC)
T 443.63'
R 2,292.00'



LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
- 8" PAVED CONCRETE APPROACH
- 6" CONCRETE MEDIAN STRIP

SCALE
0 50 100 150

DISCLAIMER
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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 11:09:12 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED 9/26/2025
ROUTE 30 | STATE MO
DISTRICT SL | SHEET NO. 28
COUNTY ST. LOUIS
JOB NO. JSL0081
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

PI 315+34.17
PC 310+90.55
PT 319+66.96
Δ 21°54'31.5" (RT)
D 2°29'59.3"
L 876.41' (ARC)
T 443.63'
R 2,292.00'

PI 320+16.96
Ls 149.98'
Ys 3.27'
Xs 149.94'
LT 99.99'
ST 50.00'

GUARDRAIL ZONE 5

INSTALL (GOING AHEAD STATION)
1 EA. CWET (MASH)
87.5 LF MGS GUARDRAIL
1 EA. END ANCHOR
REMOVE (GOING AHEAD STATION)
1 EA. CWET
1 EA. END ANCHOR

320

325

STA 325+31.79

BRIDGE A1027
EXCEPTION

STA 327+96.02

BUTT JOINT @
EX. ASPH. JOINT
(SAW CUT)

RAMP 2

I-270

RAMP 1

GRAVOIS RIDGE CT

BUTT JOINT @
EX. ASPH. JOINT
(SAW CUT)

EX. CONC.
ISLAND (UIP)

EX. CONC.
PAVEMENT (UIP)

EX. MGS BRIDGE
APPROACH TRANSITION
SECTION & CWET (MASH)
(UIP)

EX. CONC. MEDIAN
STRIP (UIP)

MATCHLINE STA. 315+53.64

CS STA 319+66.96 R2

EQUATION
STA 321+16.94 BK =
STA 321+44.20 AH

POT STA 326+58.05 R3

S74°33'00"W

R&R INLET
TOP (3 EA.)

MATCHLINE STA. 328+55.90

ROUTE 30

SIGN (UIP)

INSTALL 100 LF
SILT FENCE

EX. CONC.
PAVEMENT (UIP)

INSTALL 100 LF
SILT FENCE

EX. CONC.
ISLAND (UIP)

RAMP 4

(GRASS)

(R) EX. CONC. ISLAND
INSTALL 6" CONC. MEDIAN ISLAND
(SEE SPECIAL SHEET FOR DETAILS)

GUARDRAIL ZONE 6

BUTT JOINT @
EX. ASPH. JOINT
(SAW CUT)

EX. MGS BRIDGE
APPROACH TRANSITION
SECTION & CWET (MASH)
(UIP)

INSTALL (GOING AHEAD STATION)
1 EA. CWET (MASH)
75.0 LF MGS GUARDRAIL
1 EA. MGS END ANCHOR
REMOVE (GOING AHEAD STATION)
1 EA. CWET (MASH)
1 EA. MGS END ANCHOR

LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
- 8" PAVED CONCRETE APPROACH
- 6" CONCRETE MEDIAN STRIP

SCALE
0 50 100 150

DISCLAIMER
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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 11:09:21 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/26/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	29

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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

GUARDRAIL ZONE 7

INSTALL (GOING AHEAD STATION)
1 EA. MGS END ANCHOR
87.5 LF MGS GUARDRAIL
1 EA. CWET (MASH)
REMOVE (GOING AHEAD STATION)
1 EA. MGS END ANCHOR
1 EA. CWET (MASH)

BUTT JOINT @
EX. ASPH. JOINT
(SAW CUT)

SAW CUT

881+23.27

END STA 881+35.29

FULL DEPTH
OPTIONAL PVMT.
(SEE TYPICAL SECTION)

NOTE:
EAST COMMUTER LOT
(SEE SPECIAL SHEET
FOR DETAILS)

EX. ASPHALT
SHLDR (R)

A2 SHLDR
(SEE TYPICAL SECTION)

SAW CUT

EX. PAVED
DITCH (UIP)

INSTALL 100 LF
SILT FENCE

879+17.39

SIGN (UIP)

330

WEBER HILL ROAD

S15°27'00"E

EX. COMMUTER LOT (UIP)

880

335

EX. CONC.
ISLAND (UIP)

EX. PAVED
DITCH (UIP)

GUARDRAIL ZONE 8

INSTALL (GOING AHEAD STATION)
1 EA. MGS END ANCHOR
100.0 LF MGS GUARDRAIL
1 EA. CWET (MASH)
REMOVE (GOING AHEAD STATION)
1 EA. MGS END ANCHOR
25.0 LF MGS GUARDRAIL
1 EA. CWET (MASH)

GUARDRAIL ZONE 10

INSTALL (GOING AHEAD STATION)
1 EA. MGS END ANCHOR
87.5 LF MGS GUARDRAIL
1 EA. CWET (MASH)

340

EX. PAVED
DITCH (UIP)

CONC. BOX
CULVERT (UIP)

INSTALL 100 LF
SILT FENCE

MATCHLINE STA. 328+55.90

RAMP 4

EX. CONC. MEDIAN
STRIP (UIP)

INSTALL ALT.
DITCH CHECK

ROUTE 30

D.75
(UIP)

MATCHLINE STA. 341+30.90

332+90.00 ROUTE 30
877+83.09 WEBER HILL ROAD

EX. MGS
GUARDRAIL
(UIP)

EX. CONC.
ISLAND (UIP)

RAMP 2

BUTT JOINT @
EX. ASPH. JOINT
(SAW CUT)

EX. MGS BRIDGE
APPROACH TRANSITION
SECTION & MGS GUARDRAIL
(UIP)

WEBER HILL ROAD

BUTT JOINT @
EX. ASPH. JOINT
(SAW CUT)

EX. CWET (MASH),
MGS GUARDRAIL, &
MGS END ANCHOR (UIP)

GUARDRAIL ZONE 9

INSTALL (GOING AHEAD STATION)
1 EA. MGS END ANCHOR
87.5 LF MGS GUARDRAIL
1 EA. CWET (MASH)
REMOVE (GOING AHEAD STATION)
1 EA. MGS END ANCHOR
1 EA. CWET (MASH)

EX. CONC. PAVED
APPROACH (UIP)

GRANDVIEW FOREST DR.

LEGEND

	1.75" MILL, 1.75" SP095CLP w/PG 70-22
	1.00" MILL, 1.75" SP095CLP w/PG 70-22
	1.75" MILL, 1.75" BP-2 W/PG 64-22
	BITUMINOUS FOG SEAL (SHOULDER)
	8" PAVED CONCRETE APPROACH
	OPTIONAL PAVEMENT
	A2 SHOULDER

SCALE
0 50 100 150

DISCLAIMER
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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 11:08:58 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/26/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	30

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

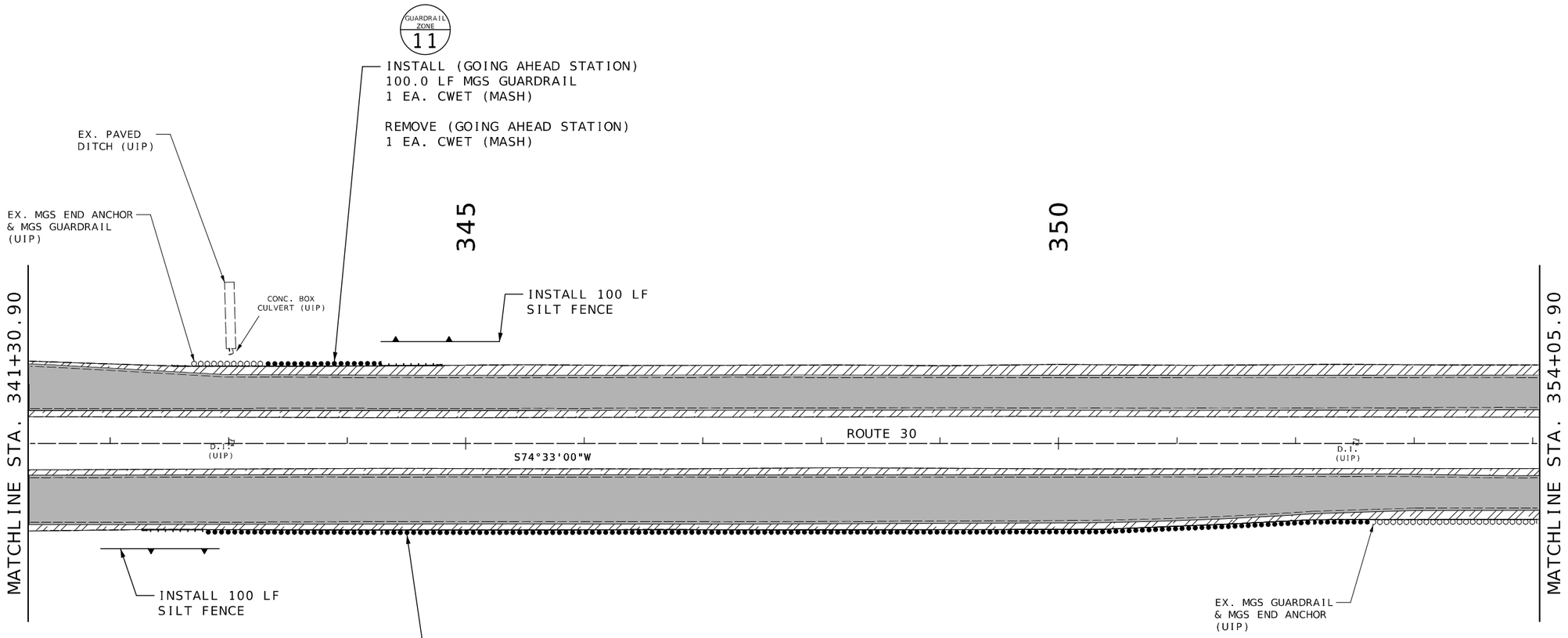
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEETS



LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
- 8" PAVED CONCRETE APPROACH

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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 11:19:27 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/18/2025

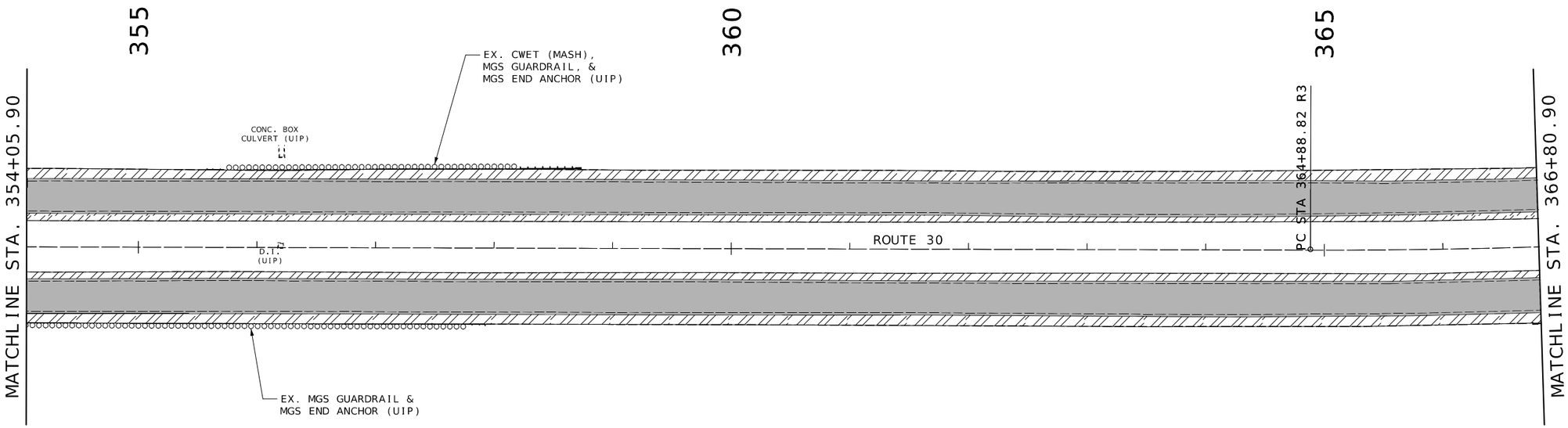
ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	31

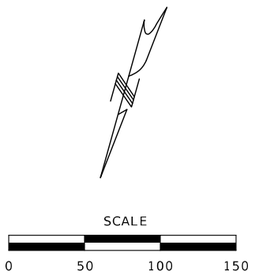
COUNTY: ST. LOUIS
JOB NO.: JSL0081
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

PLAN SHEETS





LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 11:19:42 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/18/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	32

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

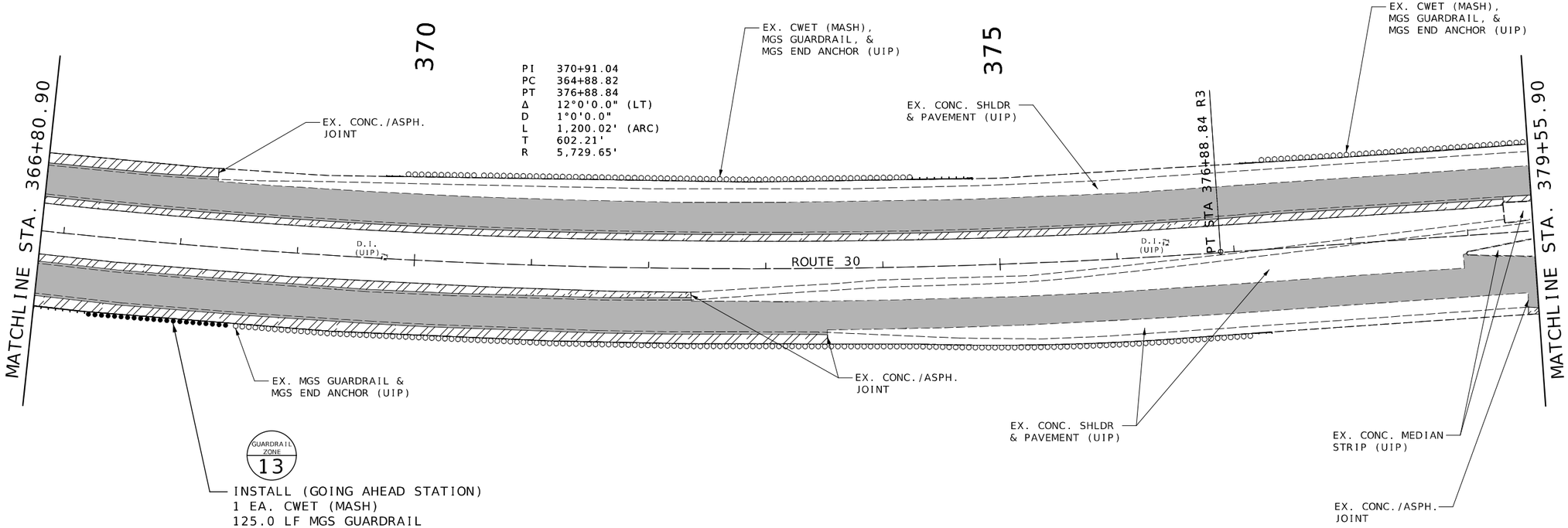
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEETS



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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 12:48:41 PM
STUART ROBINSON McNEIL CIVIL MO-PE-2006019687

DATE PREPARED: 8/18/2025

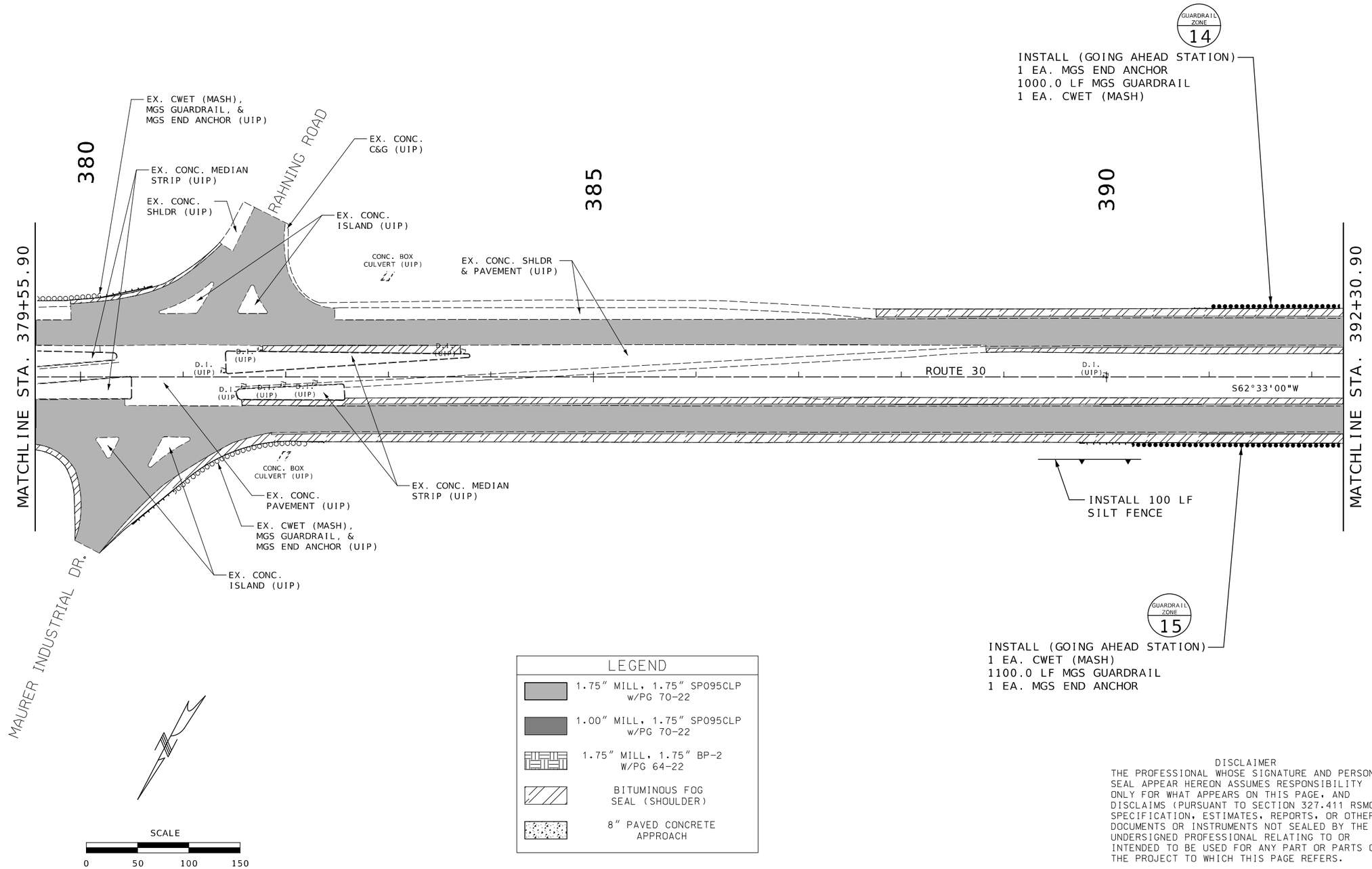
ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	33

COUNTY: ST. LOUIS
JOB NO.: JSL0081
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



LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
- 8" PAVED CONCRETE APPROACH

SCALE

0 50 100 150

DISCLAIMER

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

08/21/2025 12:48:51 PM
STUART ROBINSON McNEIL CIVIL
MO-PE-2006019687

DATE PREPARED
8/18/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	34

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

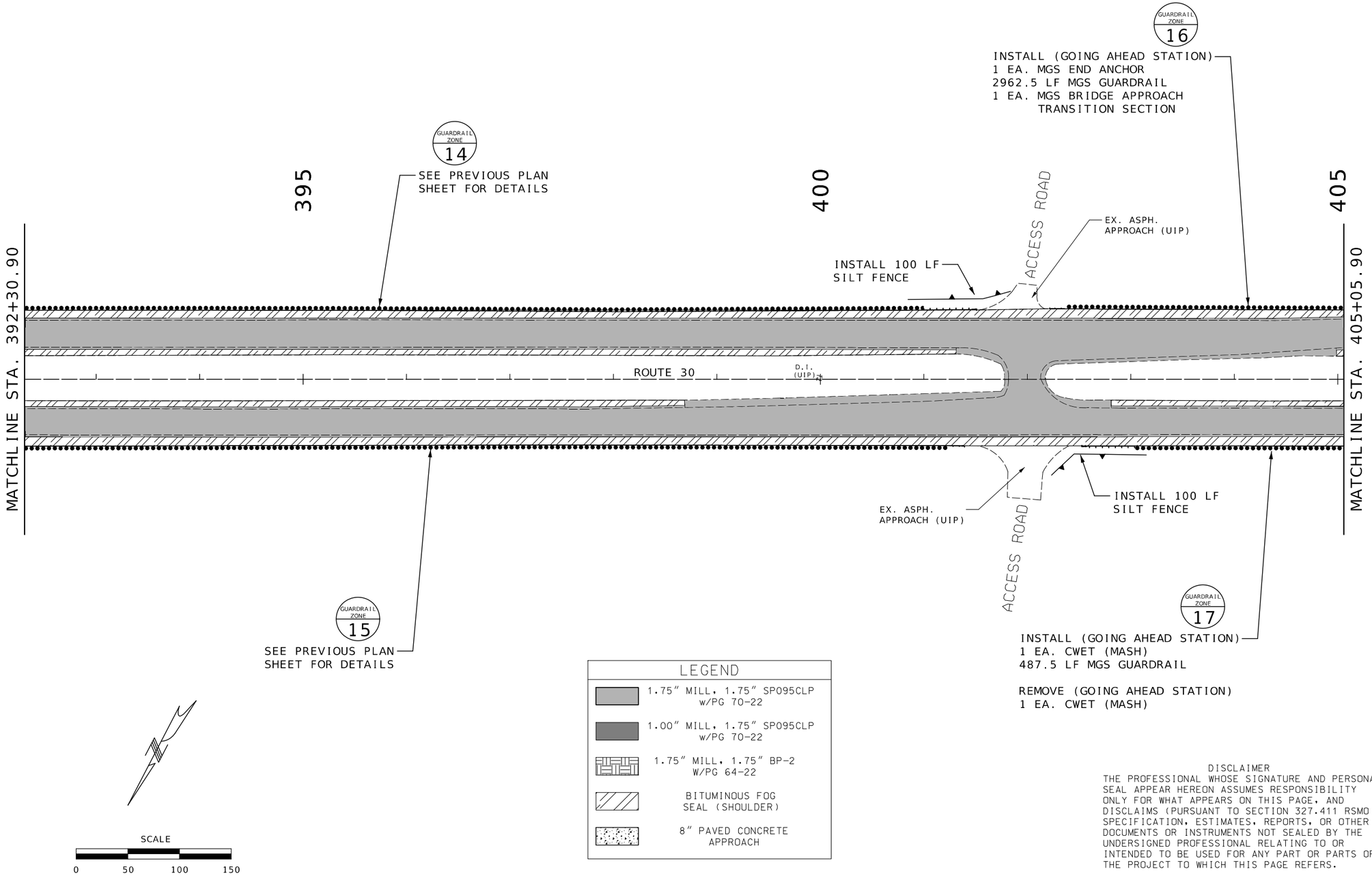
PROJECT NO.

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



LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
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SCALE

0 50 100 150

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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 12:49:06 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/18/2025

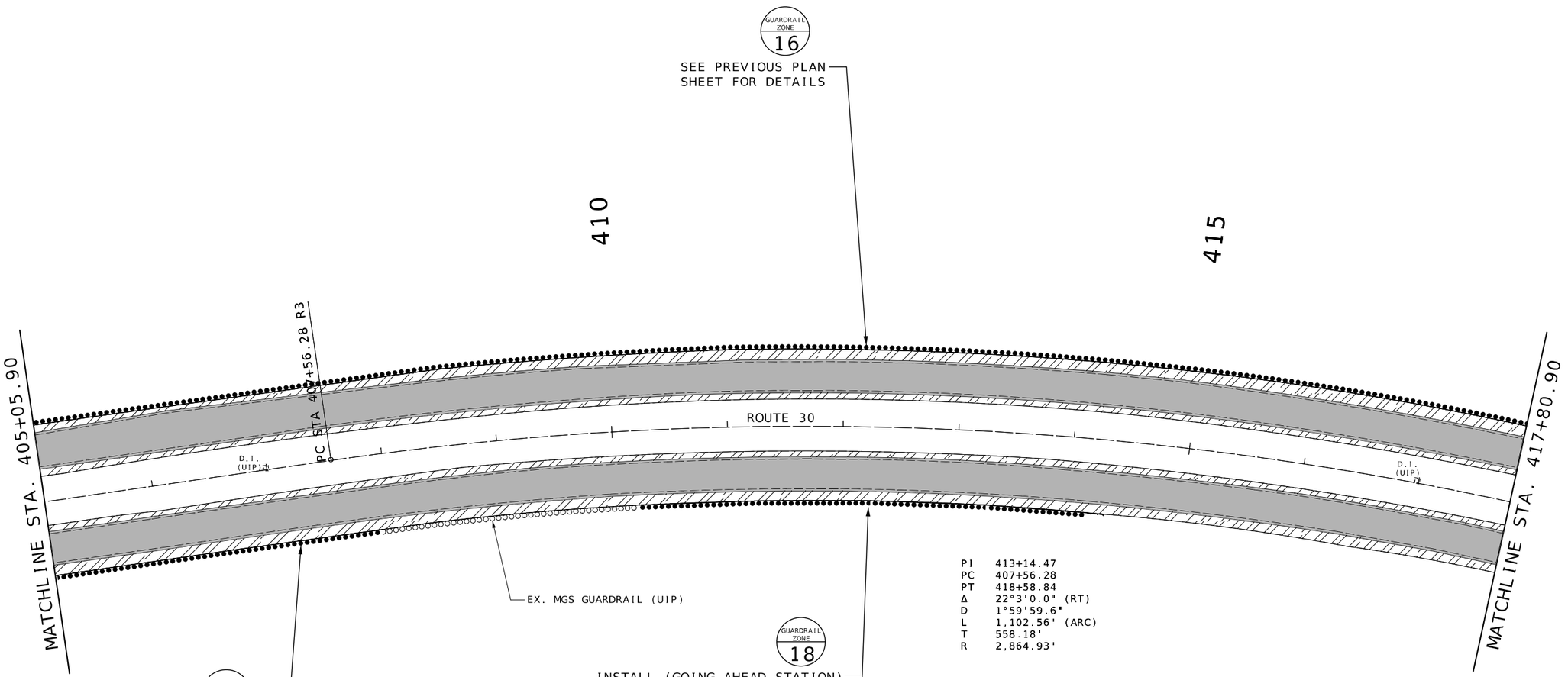
ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	35

COUNTY: ST. LOUIS
JOB NO.: JSL0081
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



PI 413+14.47
PC 407+56.28
PT 418+58.84
Δ 22°3'0.0" (RT)
D 1°59'59.6"
L 1,102.56' (ARC)
T 558.18'
R 2,864.93'

LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
- BITUMINOUS FOG SEAL (SHOULDER)
- 8" PAVED CONCRETE APPROACH

SCALE
0 50 100 150

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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 12:49:17 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/18/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	36

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

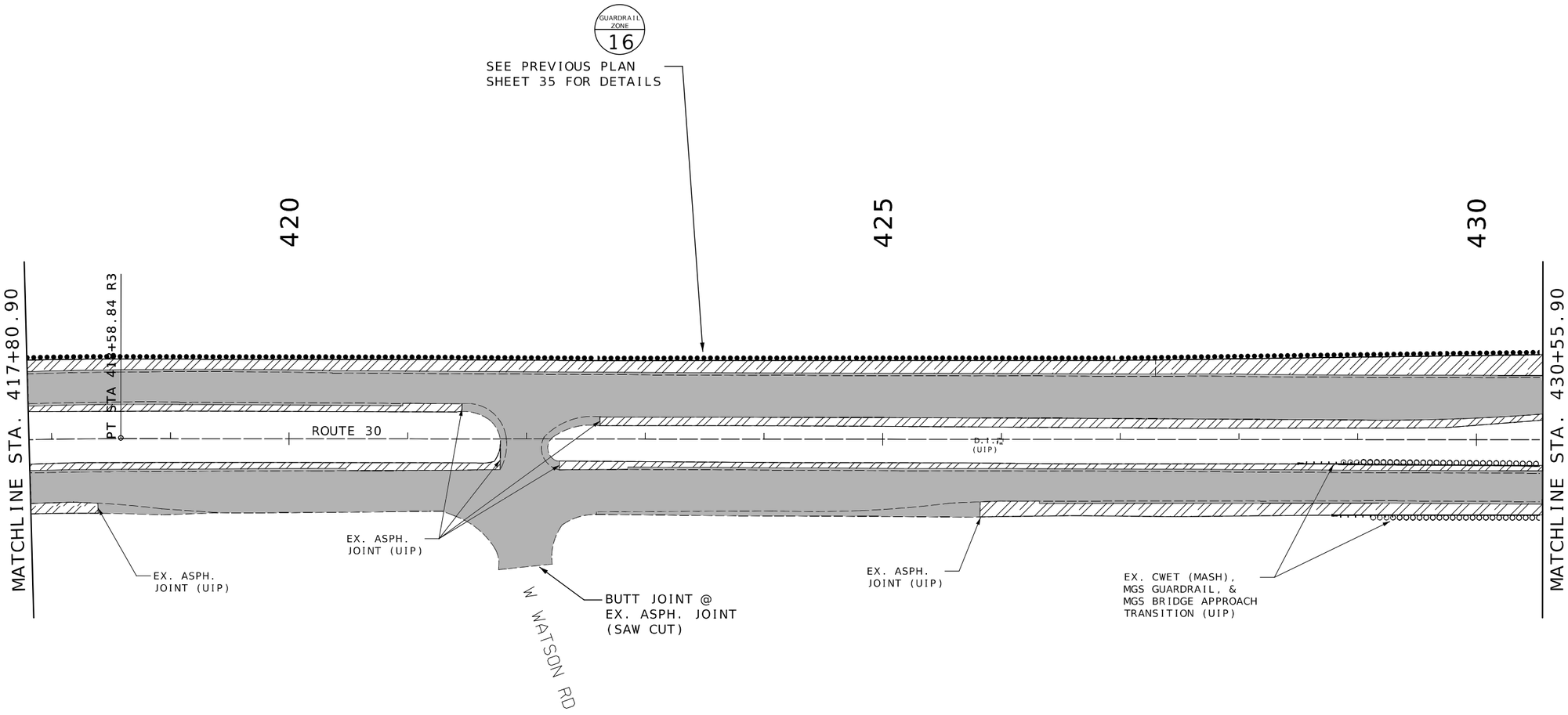
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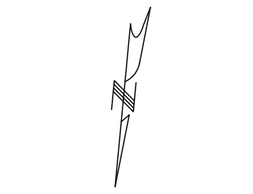
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEETS





LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 12:50:15 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/18/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	37

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

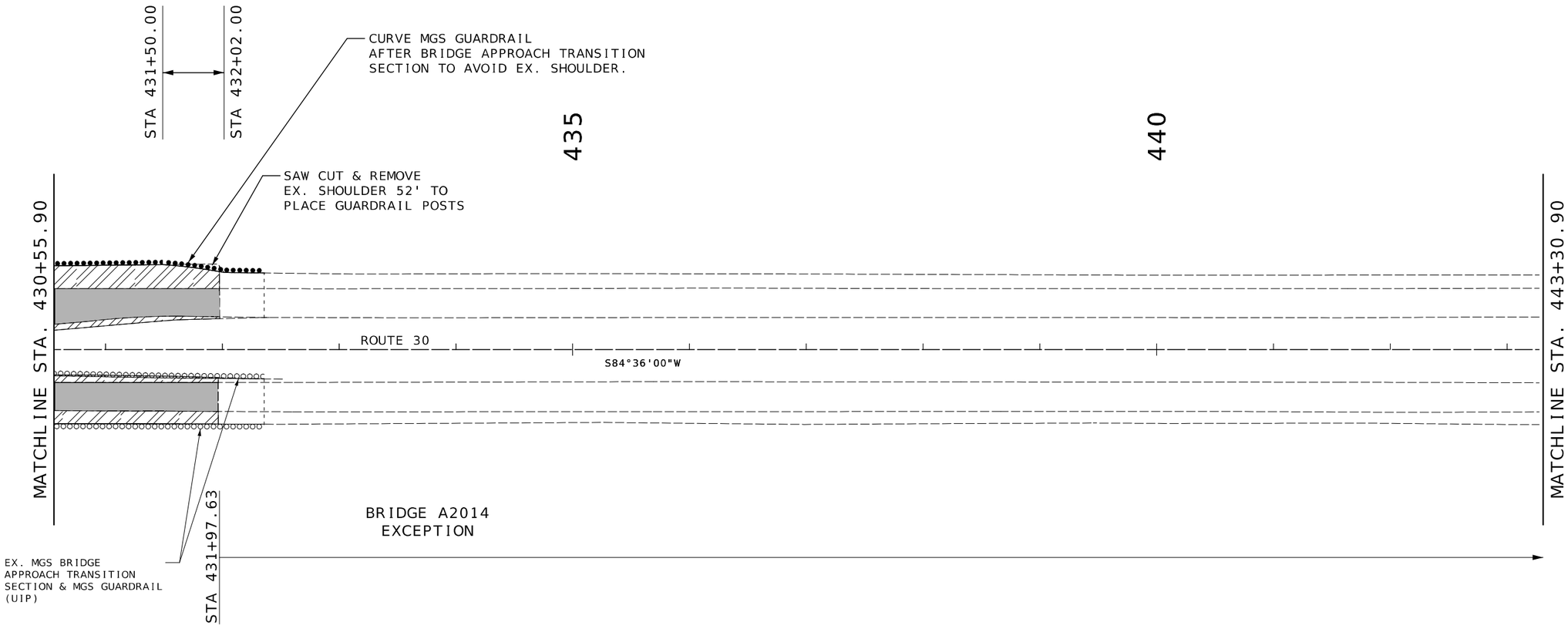
PROJECT NO.

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



SCALE

0 50 100 150

LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER

08/21/2025 12:51:37 PM
STUART ROBINSON McNEIL CIVIL
MO-PE-2006019687

DATE PREPARED
8/18/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	38

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

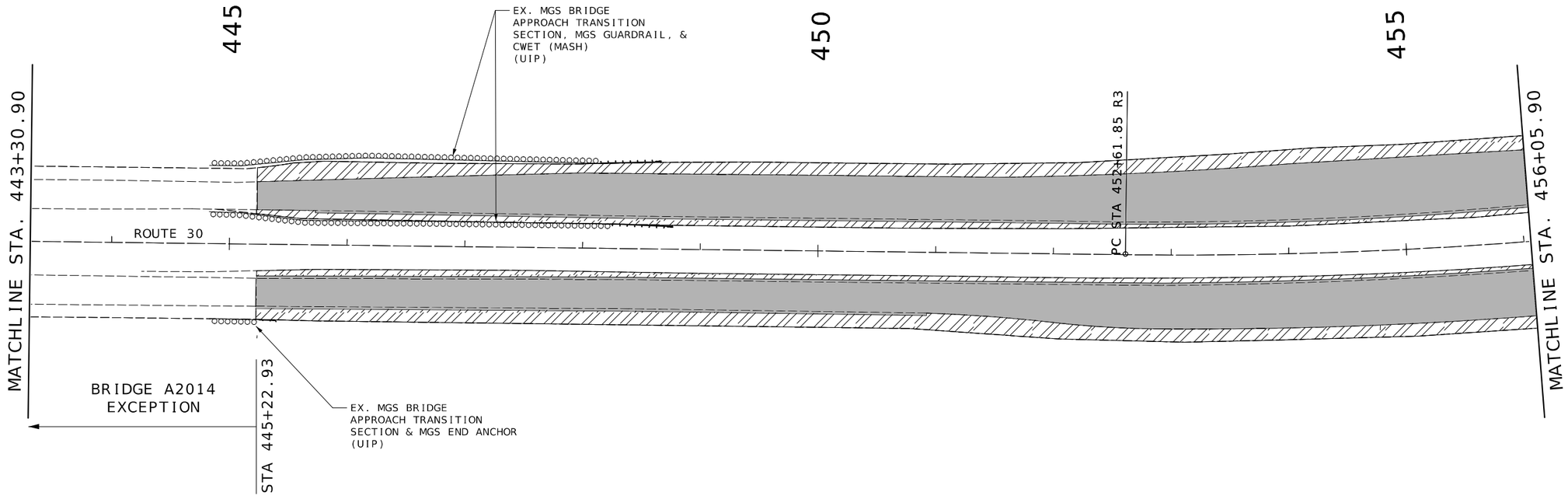
PROJECT NO.

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



SCALE

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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 12:51:49 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/18/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	39

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

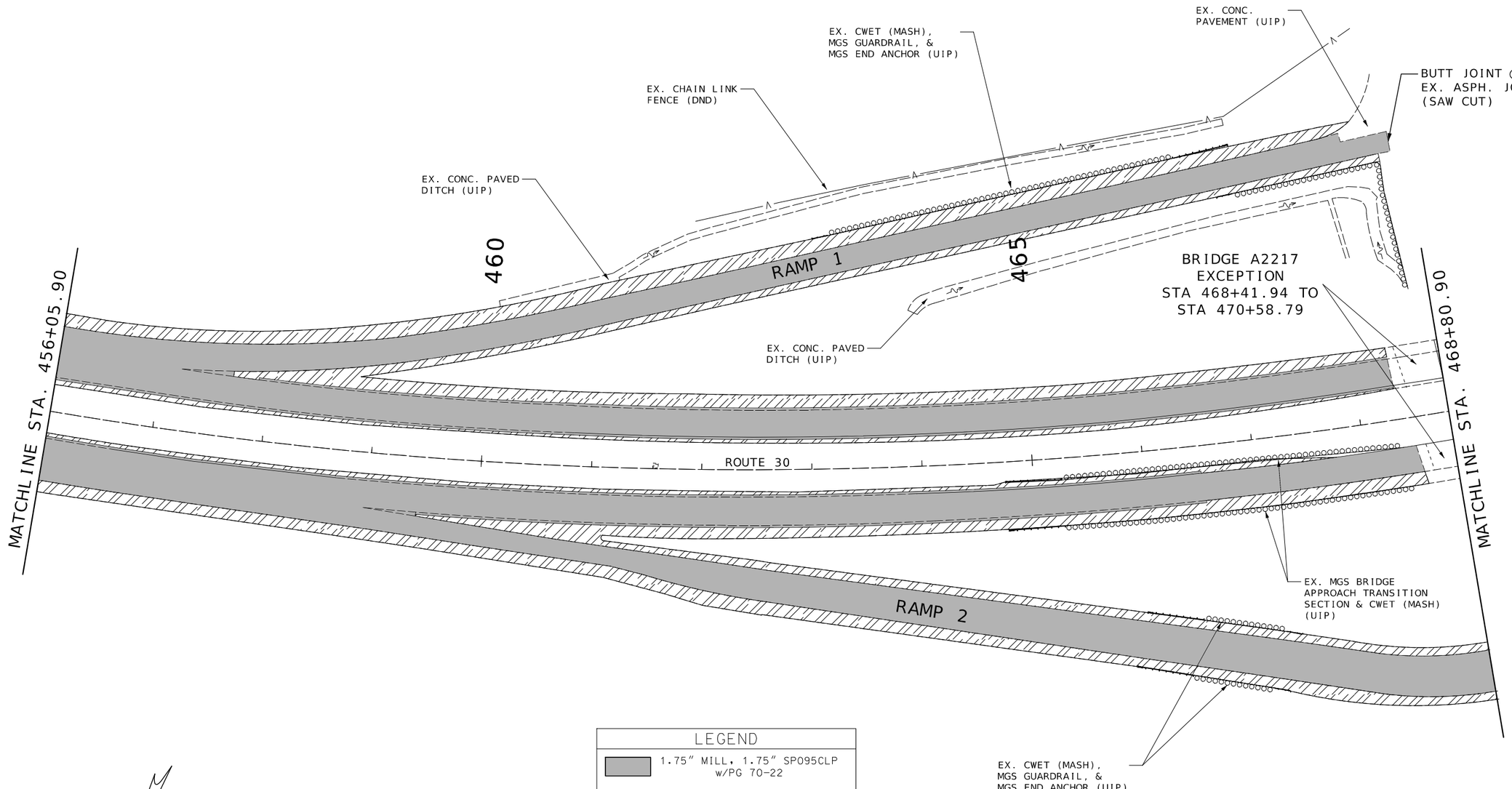
PROJECT NO.

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



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

Stuart McNeil

08/21/2025 12:52:04 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/18/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	40

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

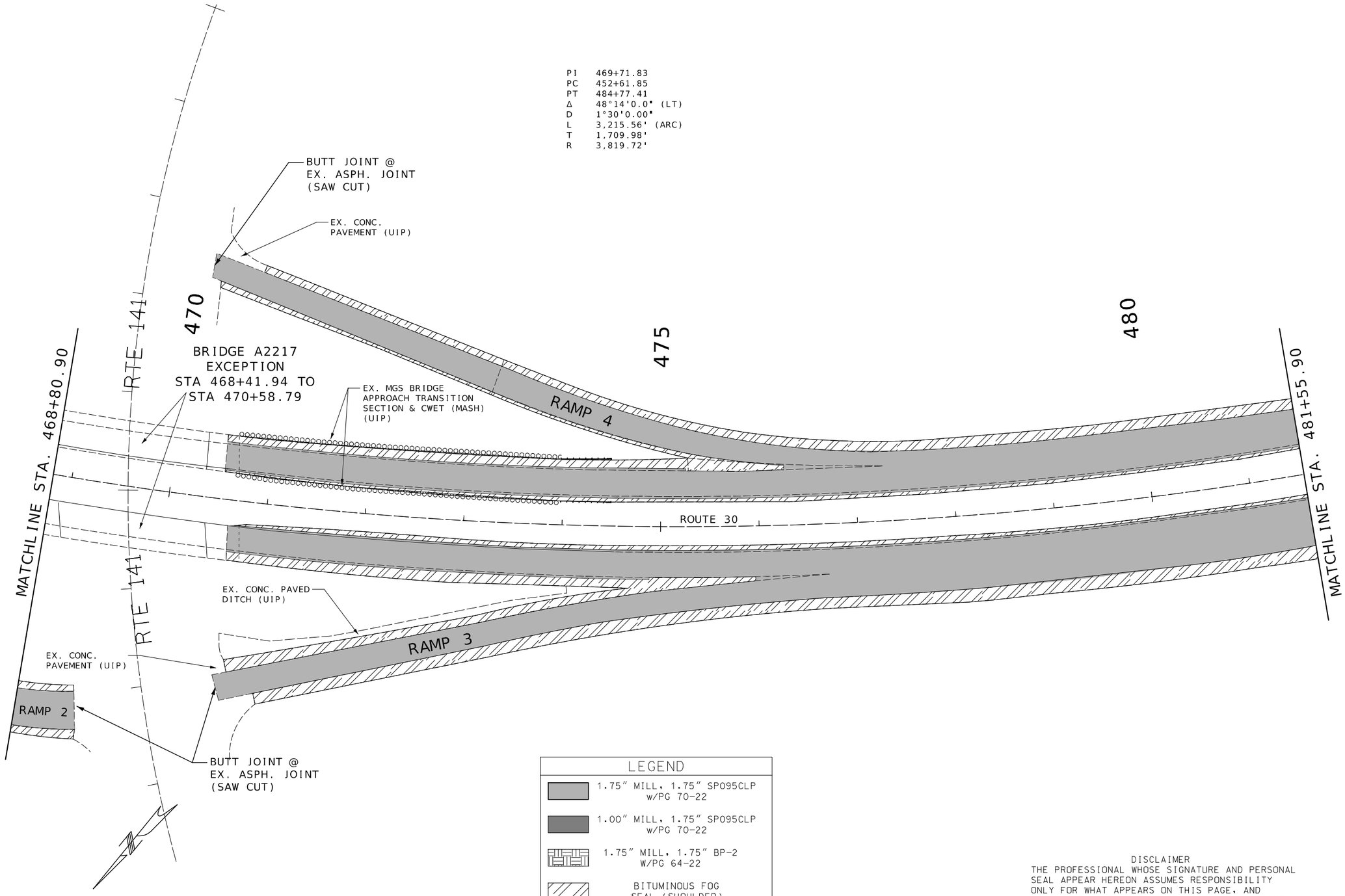
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEETS

PI 469+71.83
PC 452+61.85
PT 484+77.41
Δ 48°14'0.0" (LT)
D 1°30'0.00"
L 3,215.56' (ARC)
T 1,709.98'
R 3,819.72'



SCALE
0 50 100 150

LEGEND

- 1.75" MILL, 1.75" SP095CLP w/PG 70-22
- 1.00" MILL, 1.75" SP095CLP w/PG 70-22
- 1.75" MILL, 1.75" BP-2 W/PG 64-22
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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 12:53:12 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/18/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	41

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

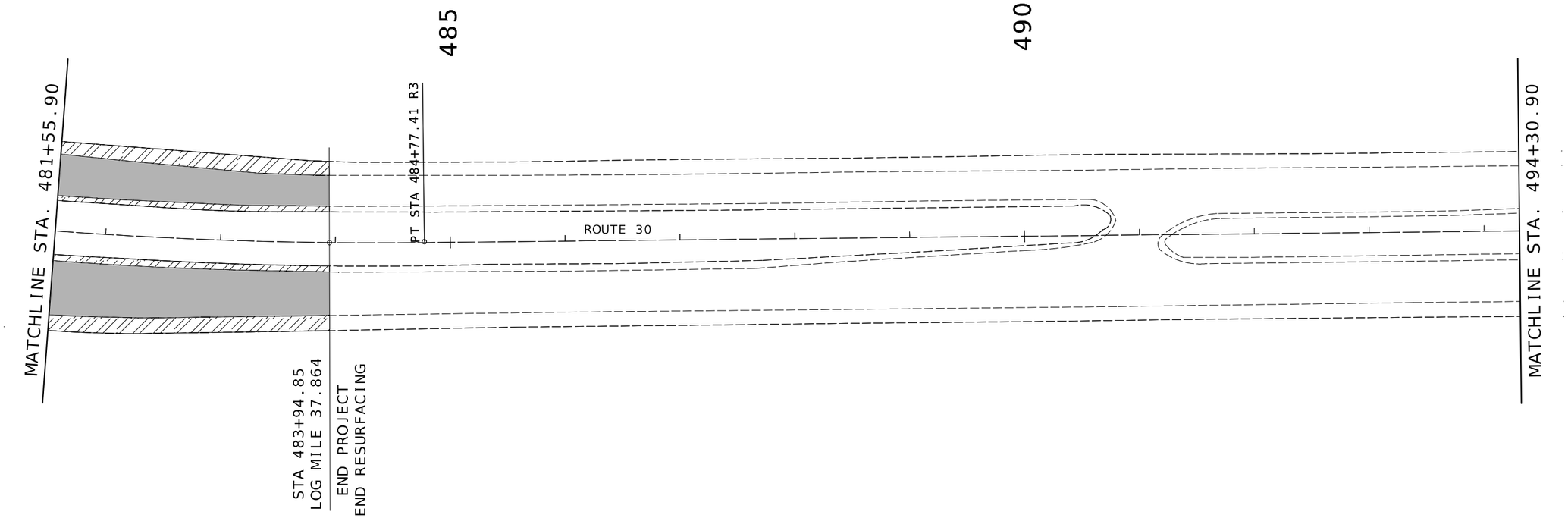
PROJECT NO.

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



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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 12:53:21 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/18/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	42

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

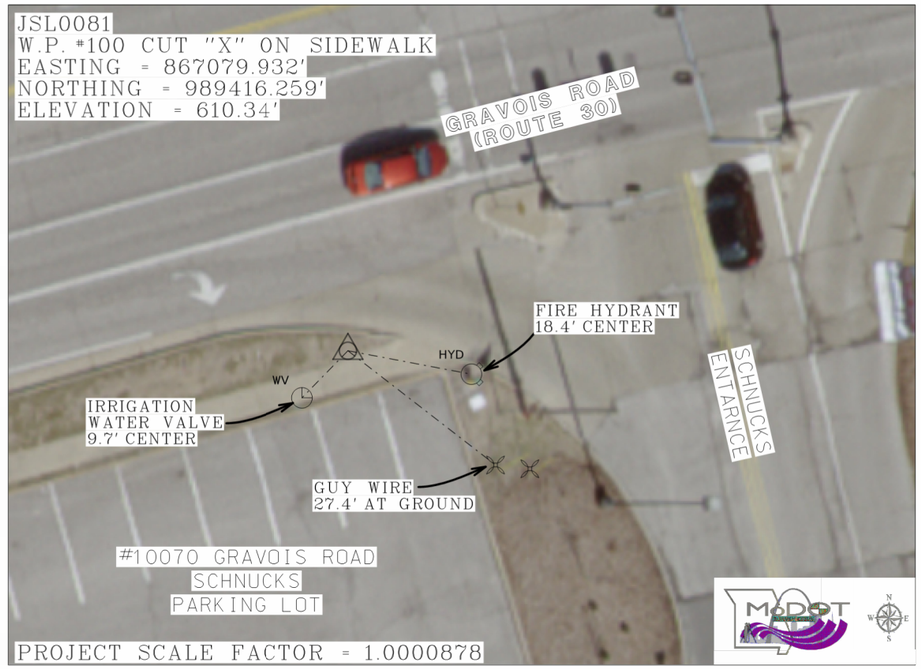
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEETS





STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 12:53:27 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED	
8/18/2025	
ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	43

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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)

REFERENCE POINT SHEET
SHEET 1 OF 1

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

PROJECT COORDINATE INFORMATION

COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
HORIZONTAL DATUM	NAD 83 (2011) EPOCH 2010.0
VERTICAL DATUM	NAVD 1988 : GNSS DERIVED
GEOID MODEL	GEOID18 (CONUS)
ELEVATIONS DETERMINED BY	GNSS
PROJECT PROJECTION FACTOR	1.00008780

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	MISSOURI COORD. SYSTEMOF 1983
CONTROL STATION	MISSOURI CORS
DESIGNATION	MODOT SEILER TREECOURT CORS ARP
CORS_ID	MOSI
PID	DL3650
LATITUDE	38° 33' 44.23061" N
LONGITUDE	90° 27' 40.90237" W
NORTHING (M)	302843.5680
EASTING (M)	253367.3970
ZONE	EAST
PROJECT AVERAGE GRID FACTOR	0.99991221

EXAMPLE OF PROJECT COORDINATE TO S.P.C.

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

EXAMPLE: CONTROL POINT #1
N 989370.4010 X 0.999912208 = N 989283.5422
E 866913.8620 X 0.999912208 = E 866837.7539

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

COORDINATE POINT LISTING

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND) NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	DESCRIPTION
PROJECT CONTROL POINTS							
	124+26.32 R3	ROUTE 30 A	- 44.8164'	989370.401'	866913.862'	602.75'	IRON ROD W/PLASTIC CAP, CP #1
	122+54.03 R3	ROUTE 30 A	- 44.3115'	989416.259'	867079.932'	610.34'	CUT 'X' ON SIDEWALK, CP #100
ALIGNMENTS: ROUTE 30 A & B							
4	0+00.00 R1	ROUTE 30 A	0	993,750.81	878,311.89		START
4	11+15.70 R1	ROUTE 30 A	0	993,037.06	877,454.37		
5	15+24.80 R1	ROUTE 30 A	0	992,772.17	877,142.60		
5	18+58.30 R1	ROUTE 30 A	0	992,565.54	876,880.83		
5	21+82.15 R1	ROUTE 30 A	0	992,383.03	876,613.31		
5	25+26.31 R1	ROUTE 30 A	0	992,208.34	876,316.78		
6	29+80.62 R1	ROUTE 30 A	0	992,004.32	875,910.86		
6	32+43.52 R1	ROUTE 30 A	0	991,902.92	875,668.30		EQNBK
6	32+42.75 R2	ROUTE 30 A	0				EQNAH
7	46+92.11 R2	ROUTE 30 A	0	991,423.71	874,300.46		
8	51+73.36 R2	ROUTE 30 A	0	991,268.56	873,844.90		
8	56+98.51 R2	ROUTE 30 A	0	991,097.09	873,348.54		
8	63+06.26 R2	ROUTE 30 A	0	990,895.97	872,775.03		
10	86+69.19 R2	ROUTE 30 A	0	990,115.50	870,544.71		
11	101+71.37 R2	ROUTE 30 A	0	989,623.72	869,125.31		EQNBK
11	101+81.14 R3	ROUTE 30 A	0				EQNAH, PC
12	104+46.23 R3	ROUTE 30 A	0	989,536.94	868,874.82		PI
12	107+06.59 R3	ROUTE 30 A	0	989,535.21	868,609.74		PT
12	111+59.38 R3	ROUTE 30 A	0	989,532.28	868,156.96		
13	116+83.86 R3	ROUTE 30 A	0	989,526.58	867,632.51		
13	121+23.15 R3	ROUTE 30 A	0	989,493.63	867,194.45		
13	127+13.90 R3	ROUTE 30 A	0	989,337.74	866,624.65		EQNBK
13	127+15.37 R4	ROUTE 30 A	0				EQNAH
14	135+14.98 R4	ROUTE 30 A	0	989,028.09	865,887.43		
14	137+80.38 R4	ROUTE 30 A	0	988,927.34	865,641.90		
15	144+51.62 R4	ROUTE 30 A	0	988,672.09	865,021.08		
15	149+11.39 R4	ROUTE 30 A	0	988,496.88	864,596.00		EQNBK
15	149+13.85 R5	ROUTE 30 A	0				EQNAH
16	154+11.39 R5	ROUTE 30 A	0	988,297.84	864,140.01		
17	169+00.00 R5	ROUTE 30 A	0	987,715.91	862,769.86		
17	174+00.00 R5	ROUTE 30 A	0	987,529.73	862,305.81		
17	175+96.05 R5	ROUTE 30 A	0	987,453.83	862,125.05		
19	201+69.01 R5	ROUTE 30 A	0	986,455.59	859,753.63		EQNBK
19	201+67.90 R6	ROUTE 30 A	0				EQNAH
20	206+18.50 R6	ROUTE 30 A	0	986,280.48	859,338.44		
20	215+09.78 R6	ROUTE 30 A	0	986,108.11	858,463.99		
21	222+80.02 R6	ROUTE 30 A	0	985,960.24	857,708.08		
21	225+29.03 R6	ROUTE 30 A	0	985,868.17	857,476.72		EQNBK
21	225+27.17 R7	ROUTE 30 A	0				EQNAH
22	232+29.96 R7	ROUTE 30 A	0	985,539.86	856,855.32		
23	253+31.03 R7	ROUTE 30 A	0	984,552.93	855,000.47		EQNBK
23	253+32.51 R8	ROUTE 30 A	0				EQNAH
24	258+11.13 R8	ROUTE 30 A	0	984,235.26	854,642.47		
25	276+31.85 R8	ROUTE 30 A	0	983,031.97	853,276.05		
26	281+38.84 R8	ROUTE 30 A	0	982,696.85	852,895.61		EQNBK
26	281+25.00 R9	ROUTE 30 A	0				EQNAH
26	290+00.00 R9	ROUTE 30 A	0	982,118.47	852,239.03		END

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
Stuart McNeil
08/21/2025 12:58:43 PM
STUART ROBINSON McNEIL- CIVIL
MO-PE-2006019687

DATE PREPARED: 8/20/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 44A
COUNTY: ST. LOUIS
JOB NO.: JSL0081
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)

COORDINATE POINTS SHEET
SHEET 1 OF 2

COORDINATE POINT LISTING

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND) NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	DESCRIPTION
ALIGNMENTS: ROUTE 30 A & B (CONT.)							
26	290+00.00 R1	ROUTE 30 B	44' RT	982,151.48	852,209.94		START
27	295+14.00 R1	ROUTE 30 B		981,811.73	851,824.24		
28	305+26.61 R1	ROUTE 30 B		981,145.94	851,061.29		EQNBK
28	305+30.25 R2	ROUTE 30 B					EQNAH
28	309+40.55 R2	ROUTE 30 B		980,876.18	850,752.14		TS
28	310+40.55 R2	ROUTE 30 B		980,810.42	850,676.79		PI POINT FOR SPIRAL CURVE
28	310+90.55 R2	ROUTE 30 B		980,778.80	850,638.06		SC
28	315+34.17 R2	ROUTE 30 B		980,498.21	850,294.43		PI
28		ROUTE 30 B		982,554.12	849,188.41		CC
29	319+66.96 R2	ROUTE 30 B		980,366.11	849,870.93		CS
29	320+16.96 R2	ROUTE 30 B		980,351.22	849,823.20		SPI
29	321+44.20 R3	ROUTE 30 B		980,324.58	849,726.83		
29	321+16.94 R2	ROUTE 30 B		980,324.58	849,726.82		EQNBK
29	321+44.20 R3	ROUTE 30 B					EQNAH
29	326+58.05 R3	ROUTE 30 B		980,187.69	849,231.53		
32	364+88.82 R3	ROUTE 30 B		979,167.19	845,539.19		PC
33	370+91.04 R3	ROUTE 30 B		979,006.76	844,958.74		PI
33		ROUTE 30 B		973,644.58	847,065.55		CC
33	376+88.84 R3	ROUTE 30 B		978,729.16	844,424.33		PT
36	407+56.28 R3	ROUTE 30 B		977,315.15	841,702.24		PC
36	413+14.47 R3	ROUTE 30 B		977,057.84	841,206.90		PI
36		ROUTE 30 B		979,857.53	840,381.58		CC
37	418+58.84 R3	ROUTE 30 B		977,005.31	840,651.19		PT
39	452+61.85 R3	ROUTE 30 B		976,685.06	837,263.28		PC
41	469+71.83 R3	ROUTE 30 B		976,524.14	835,560.89		PI
41		ROUTE 30 B		972,882.29	837,622.74		CC
42	484+77.41 R3	ROUTE 30 B		975,147.20	834,546.96		PT
	524+36.36 R3	ROUTE 30 B		971,959.30	832,199.49		END

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 12:58:56 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/20/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	44B

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

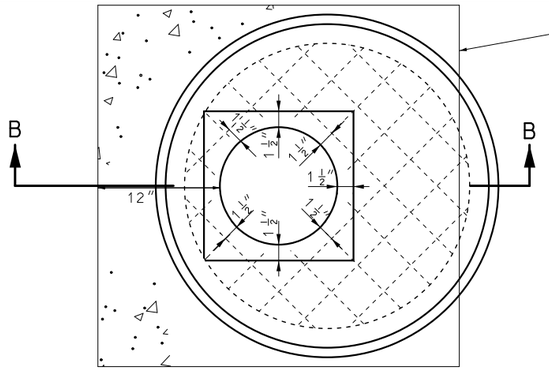
BRIDGE NO.

DESCRIPTION	DATE

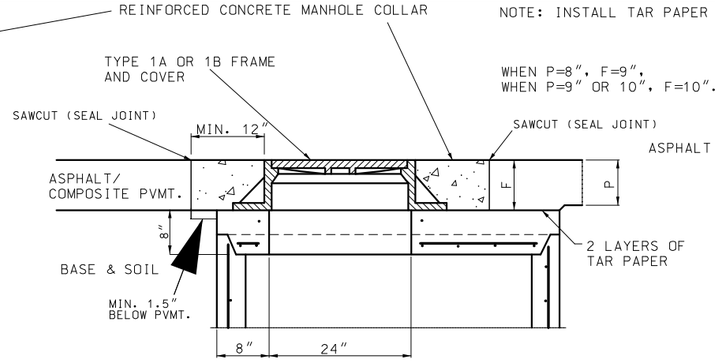
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

COORDINATE POINTS SHEET
SHEET 2 OF 2



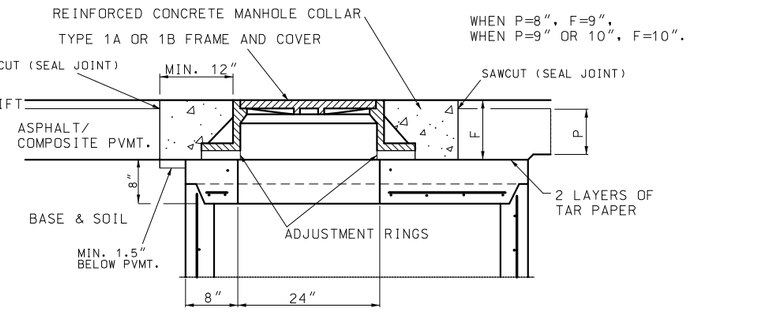
PLAN OF FLAT SLAB MANHOLE TOP



FLAT SLAB MANHOLE TOP (PAVED AREA)

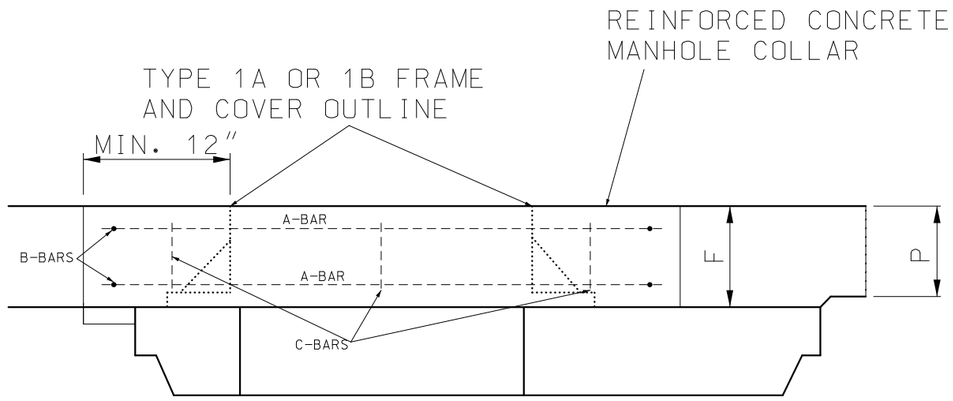
SECTION B–B

NOTE: INSTALL TAR PAPER BETWEEN FRAME & COVER AND THE NEW CONCRETE MANHOLE COLLAR AS DIRECTED BY THE ENGINEER.



FLAT SLAB MANHOLE TOP (PAVED AREA) W/ ADJUSTMENT RINGS NEXT TO ASPHALT OVERLAY

SECTION B–B

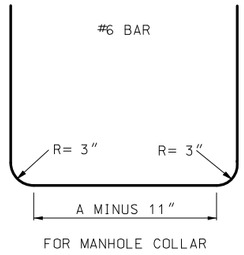


SECTION B–B

COLLAR REINFORCEMENT DETAIL

DISCLAIMER

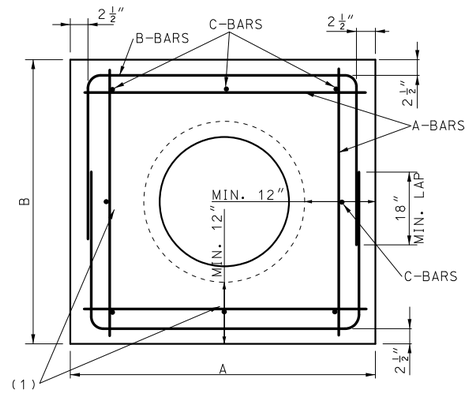
THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED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



FOR MANHOLE COLLAR

BENDING DIAGRAM FOR B–BARS

(1) PROVIDE MIN. 4.75″ CLEARANCE BETWEEN REINFORCING & MANHOLE FRAME & COVER OR CIRCULAR PRECAST MANHOLE.

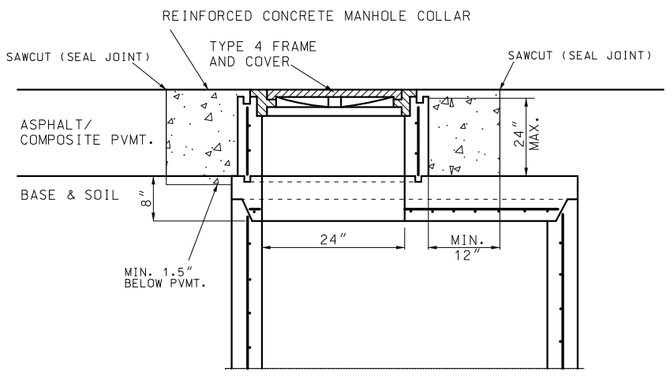


TOP VIEW OF MANHOLE COLLAR WITH REINFORCEMENT

NOTE: INSTALL 'C' BARS VERTICALLY INTO MANHOLE COLLAR CONCRETE. PROVIDE MIN. 1.5″ CLEARANCE FROM TOP OF PAVEMENT & BOTTOM OF COLLAR. LENGTH OF 'C' BARS FOR 'F' DIMENSION SHALL BE 6″. BAR LENGTH MAY VARY. 'C' BARS SHALL BE TIED TO 'A' REINFORCEMENT. 'B' BARS SHALL BE TIED TO 'A' REINFORCEMENT. 'A' BAR REINFORCEMENT SHALL HAVE 1.5″ CLEARANCE TO EDGE OF COLLAR.

GENERAL NOTES:

1. IF MANHOLE STRUCTURE DOES NOT HAVE FRAME & COVER BUT INSTEAD THE ENTIRE STRUCTURE REACHES THE TOP OF ROADWAY, THEN THIS SHEET SHALL NOT BE USED.
2. THIS SHEET SHALL TYPICALLY BE USED WHERE THE MANHOLE FRAME & COVER NEED TO BE RAISED TO GRADE, BUT CAN BE USED FOR NEW STRUCTURES AS WELL, PARTICULARLY FOR STRUCTURES INSTALLED WITHIN ASPHALT PAVEMENT.
3. THE CONTRACTOR SHALL USE 2 LAYERS OF 'A' & 'B' BAR REINFORCEMENT AS LONG AS 'F' THICKNESS NOTED ABOVE IS GREATER THAN OR EQUAL TO 9″.
4. PAYMENT FOR REINFORCED CONCRETE MANHOLE COLLAR SHALL BE MADE PER EACH AND SHALL INCLUDE ALL NECESSARY REINFORCEMENT AND SAW CUTS OF EXISTING OR PROPOSED PAVEMENT.
5. MIN. DIMENSIONS OF 'A' AND 'B' IS THE FOLLOWING: 12″ WALL + MANHOLE (INCLUDING WALL THICKNESS) + 12″.
6. CONTRACTOR SHALL PROVIDE EITHER A SQUARE OR RECTANGLE SHAPED FULL DEPTH SAWCUT AROUND THE CONCRETE MANHOLE COLLAR AFTER CONSTRUCTION. THE MIN. WIDTH SHALL BE 12″ BUT MAY VARY. THE CONTRACTOR SHALL NOT DO A CIRCULAR SAWCUT AROUND THE REINFORCED CONCRETE MANHOLE COLLAR.
7. CONCRETE USED FOR MANHOLE COLLAR SHALL BE THE SAME AS THAT USED FOR FULL DEPTH PAVEMENT REPAIRS. PLEASE SEE SECTION 613.10 OF THE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS. CONTRACTOR MAY BE ALLOWED TO USE HIGH EARLY STRENGTH CONCRETE, WITH APPROVAL FROM THE ENGINEER.
8. THE CONTRACTOR SHALL RAISE THE MANHOLE FRAME & COVER USING CONCRETE RINGS AND APPROVED MECHANICAL ADJUSTMENT DEVICES TO FINISH GRADE MATCHING PROFILE AND CROSS SLOPE.
9. REINFORCING BARS IN PAVEMENT SHALL BE EPOXY COATED AND SECURELY TIED TOGETHER AND FASTENED TO AVOID ANY POSSIBLE DISPLACEMENT DURING THE PLACING OF CONCRETE.
10. NO DIRECT PAYMENT WILL BE MADE FOR PROVIDING, CUTTING OR BENDING REINFORCING STEEL.
11. THE CONTRACTOR SHALL SEAL JOINTS FORMED BETWEEN THE INTERFACE OF THE NEW COLLAR AND THE ASPHALT PAVEMENT ALONG WITH JOINTS CREATED BY THE OVERCUT OF SAWING FOR THE REMOVAL OF PAVEMENT. SEE THE JSP FOR ADDITIONAL INFORMATION.



ALTERNATE MANHOLE TOP

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 11:06:45 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED 9/26/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	45A

COUNTY: ST. LOUIS

JOB NO.: JSL0081

CONTRACT ID.:

PROJECT NO.:

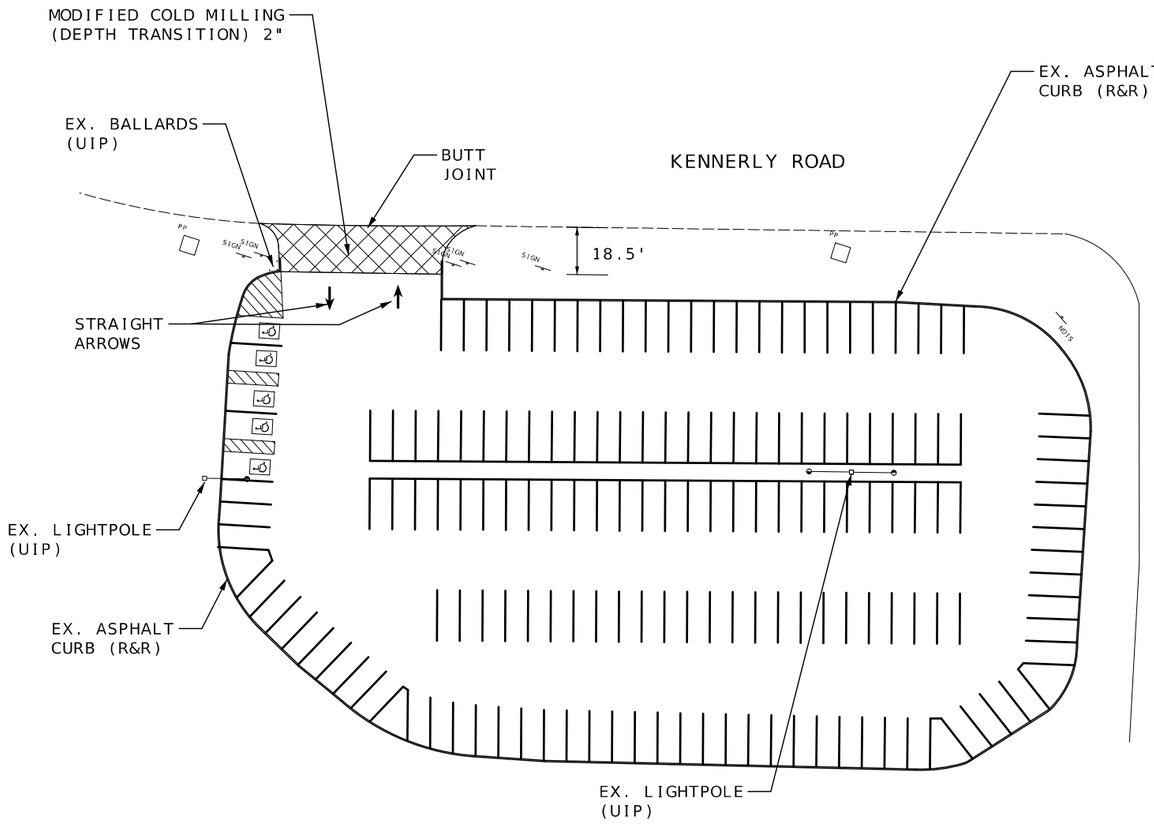
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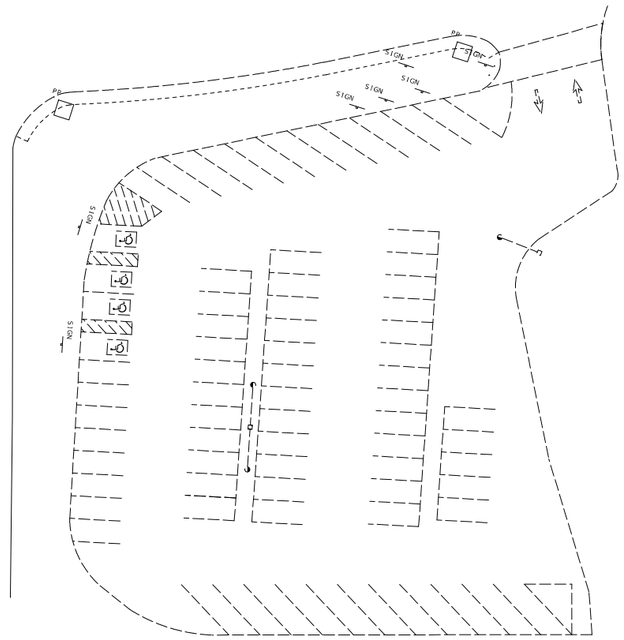
DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SPECIAL SHEET
MANHOLE COLLAR FOR
ASPHALT PAVING
SHEET 1 OF 1





NOTES:

- OVERLAY EAST COMMUTER PARKING LOT WITH 2" BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-2).
- REMOVE AND REPLACE ALL 6" ASPHALT CURB ON THE EAST COMMUTER PARKING LOT. (AT PERIMETER).
- SINGLE PARKING STALL 20' x 9' (TYPICAL) 4" WHITE WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS.
- ADA ACCESSIBLE PARKING STALL 20' x 11' (TYPICAL) 4" BLUE WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS.
- ADA ACCESSIBLE PARKING AISLE 20' x 5' (TYPICAL) 6" BLUE WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS.
- HASH BARS IN ACCESS AISLE 6' SPACING MAXIMUM @ 45° ANGLE WITH 3 BARS MINIMUM. 6" BLUE WATERBORNE MARKING PAINT, TYPE P BEADS.
- PARKING AISLE WIDTH SHALL BE 24' MINIMUM.
- GAP BETWEEN HEAD TO HEAD PARKING STALLS IS 7' (TYPICAL).

SCALE

0 50 100 150

DISCLAIMER

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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 11:07:17 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED 9/26/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	46A

COUNTY: ST. LOUIS
JOB NO.: JSL0081
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

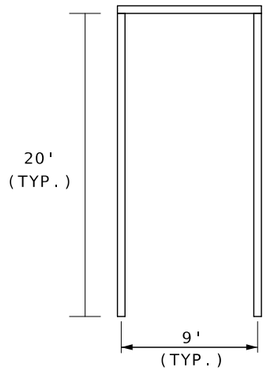
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SPECIAL SHEET
COMMUTER PARKING LOT DETAIL
SHEET 1 OF 2

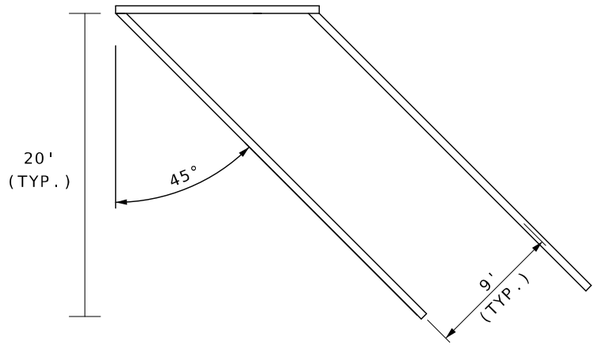
NOT TO SCALE

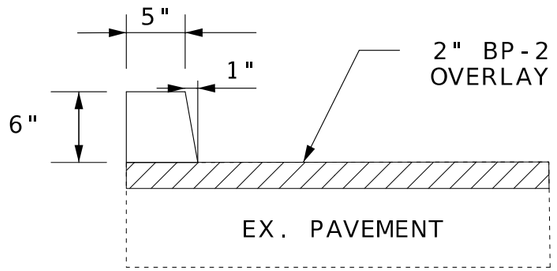
SINGLE PARKING SPACE



NOTE:
7' AISLE BETWEEN PARKING ROWS WHERE SHOWN ON PREVIOUS SHEET.

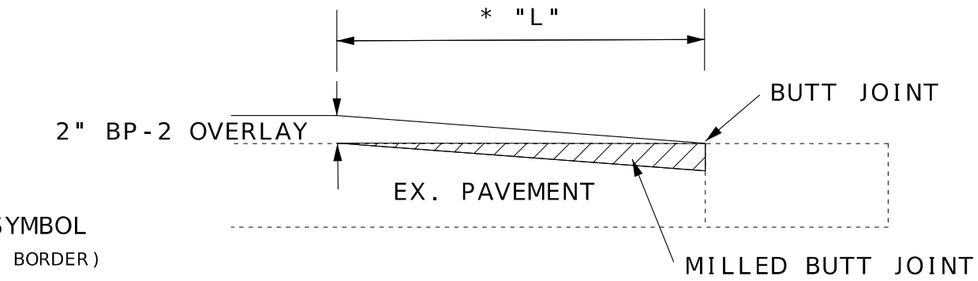
DIAGONAL PARKING SPACE





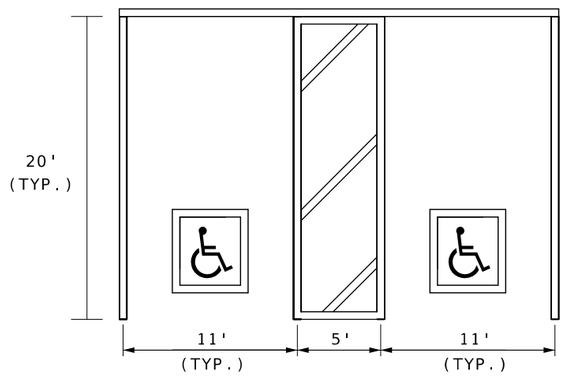
TYPICAL DETAIL 6" ASPHALT CURB

(* SEE SHEET 46A FOR "L")



TYPICAL DETAIL TRANSVERSE JOINT TRANSITION SINGLE LIFT (ENTRANCE TO COMMUTER LOTS)

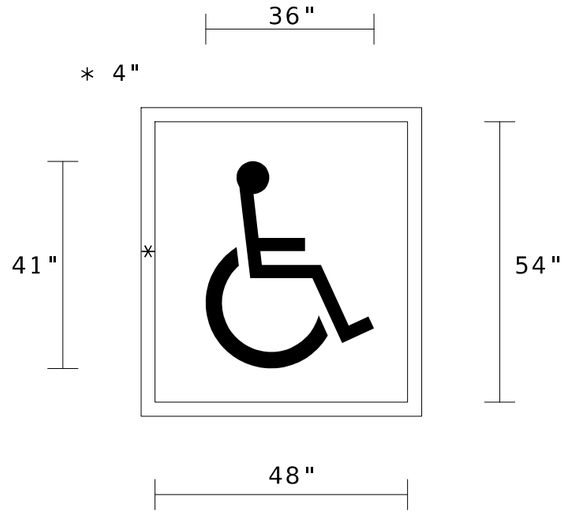
ADA ACCESSABLE PARKING SPACE



NOTE:
HASH BARS @ 45° ANGLE
6' SPACING MAXIMUM
3 HASH BARS MINIMUM
WITHIN ACCESS AISLE

ADA ACCESSABLE SYMBOL

(BLUE BACKGROUND/WHITE BORDER)



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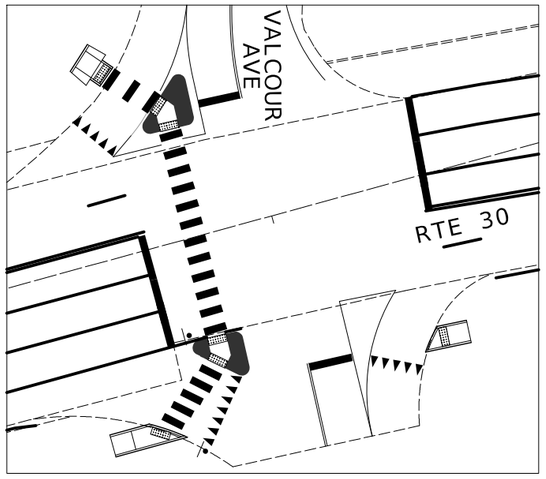
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STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 11:08:44 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

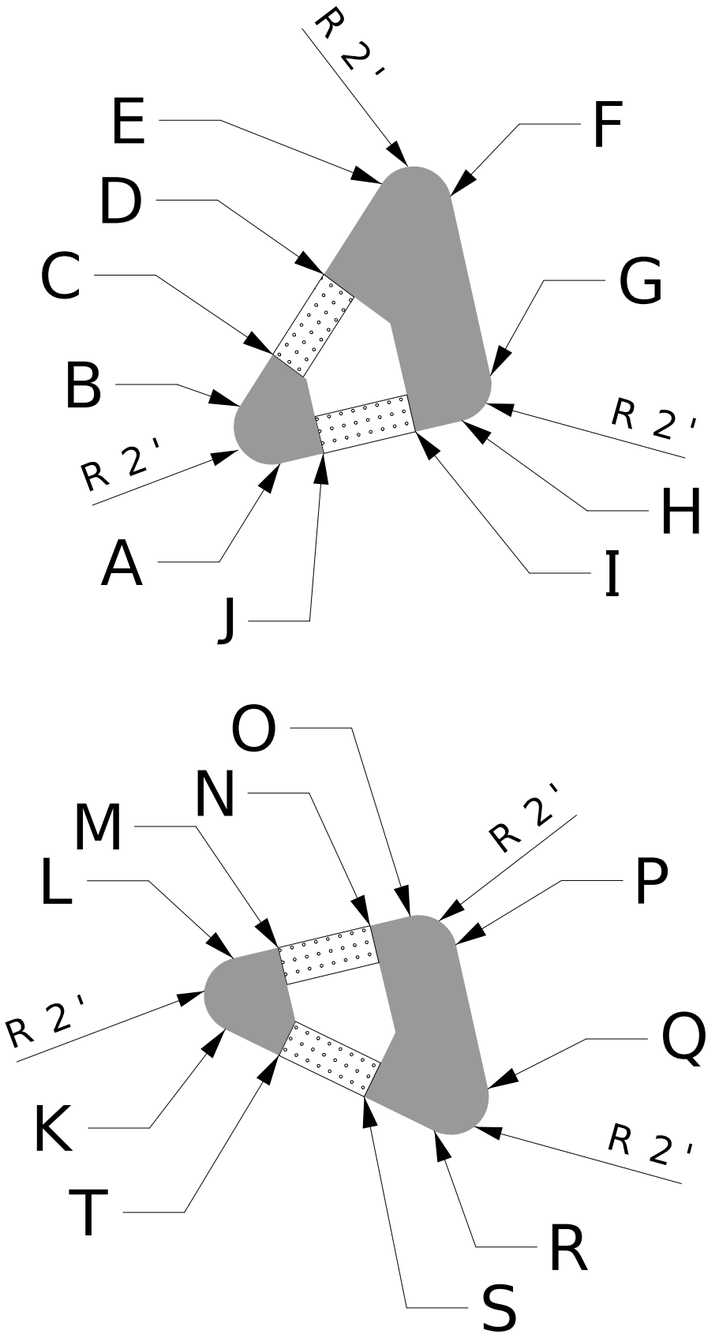
DATE PREPARED: 9/26/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 46B
COUNTY: ST. LOUIS
JOB NO.: JSL0081
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

SPECIAL SHEET
COMMUTER PARKING LOT DETAIL
SHEET 2 OF 2





ISLAND AT STA. 315+15' LT		
PT	STA	OFFSET
A	122+24.87	29.29' RT
B	122+26.14	32.77' RT
C	122+23.73	34.96' RT
D	122+20.01	38.32' RT
E	122+15.80	42.13' RT
F	122+12.46	40.55' RT
G	122+12.93	30.84' RT
H	122+15.00	28.94' RT
I	122+17.53	29.03' RT
J	122+22.52	29.21' RT

ISLAND AT STA. 315+15' LT		
PT	STA	OFFSET
K	122+28.73	30.07' LT
L	122+27.35	26.57' LT
M	122+24.91	26.65' LT
N	122+19.91	26.81' LT
O	122+17.74	26.89' LT
P	122+15.81	28.98' LT
Q	122+16.18	36.76' LT
R	122+19.49	38.16' LT
S	122+22.60	35.45' LT
T	122+26.36	32.15' LT

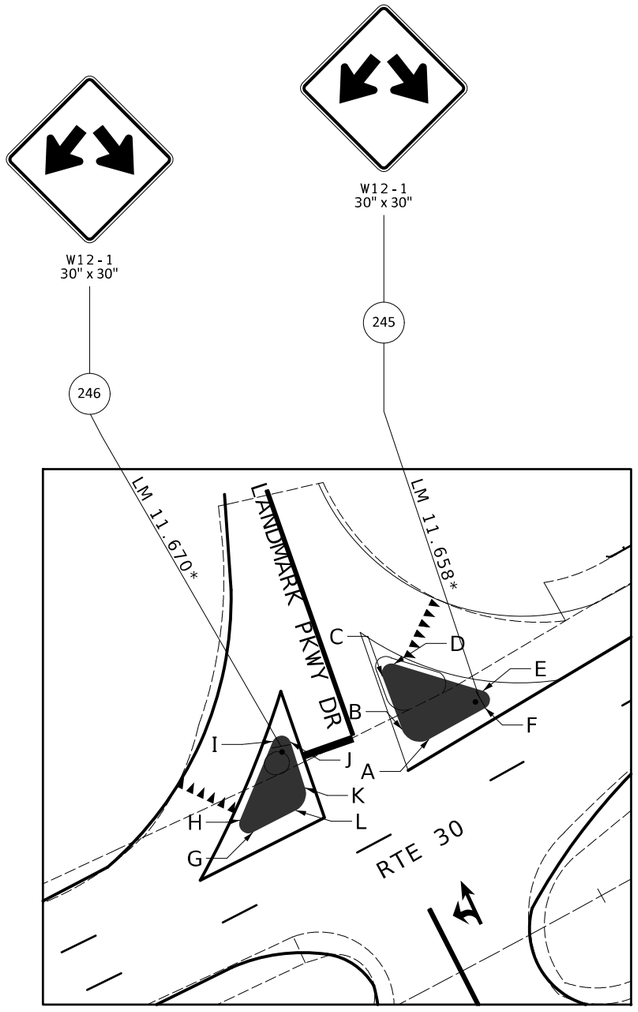
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STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 11:07:06 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

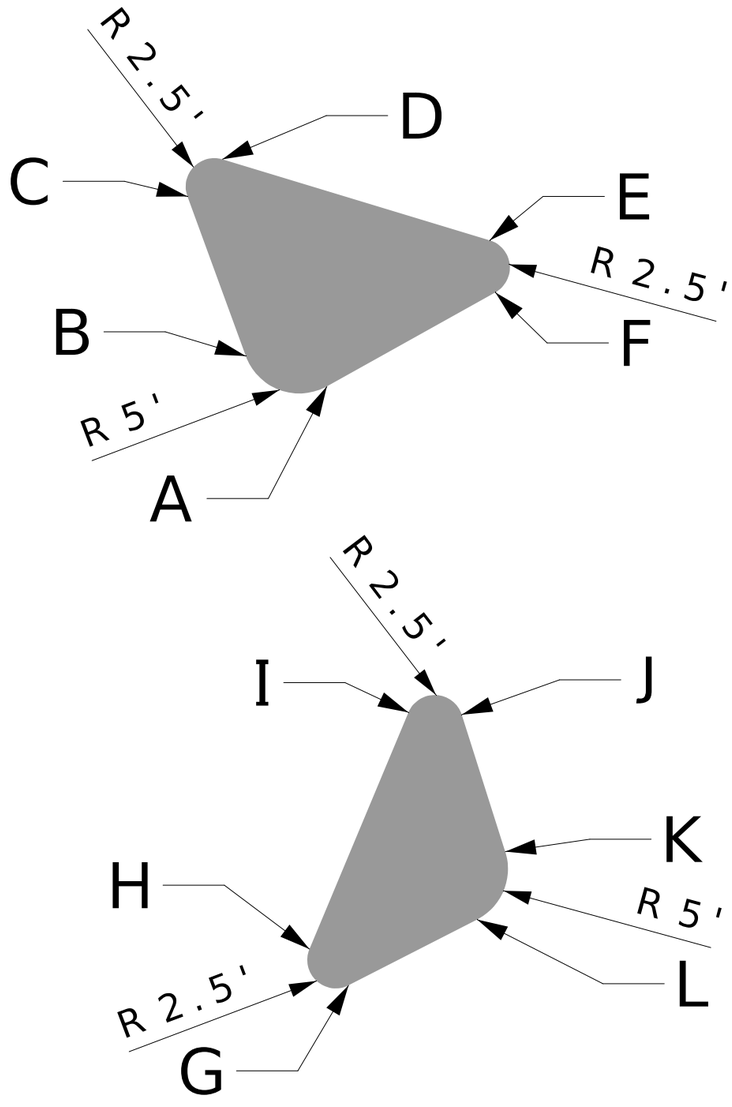
DATE PREPARED: 9/26/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 47A
COUNTY: ST. LOUIS
JOB NO.: JSL0081
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

SPECIAL SHEET
VALCOUR AVE
ISLAND DETAIL SHEET
SHEET 1 OF 1





ISLAND AT STA. 315+15' LT		
PT	STA	OFFSET
A	315+20.34	58.04' RT
B	315+25.49	63.76' RT
C	315+23.25	78.58' RT
D	315+18.85	79.97' RT
E	315+01.09	62.41' RT
F	315+02.92	58.17' RT

ISLAND AT STA. 315+15' LT		
PT	STA	OFFSET
A	315+68.84	58.02' RT
B	315+72.14	62.43' RT
C	315+61.99	76.93' RT
D	315+53.60	74.58' RT
E	315+55.10	62.13' RT
F	315+60.20	57.98' RT

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 3:37:19 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/30/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	47B

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

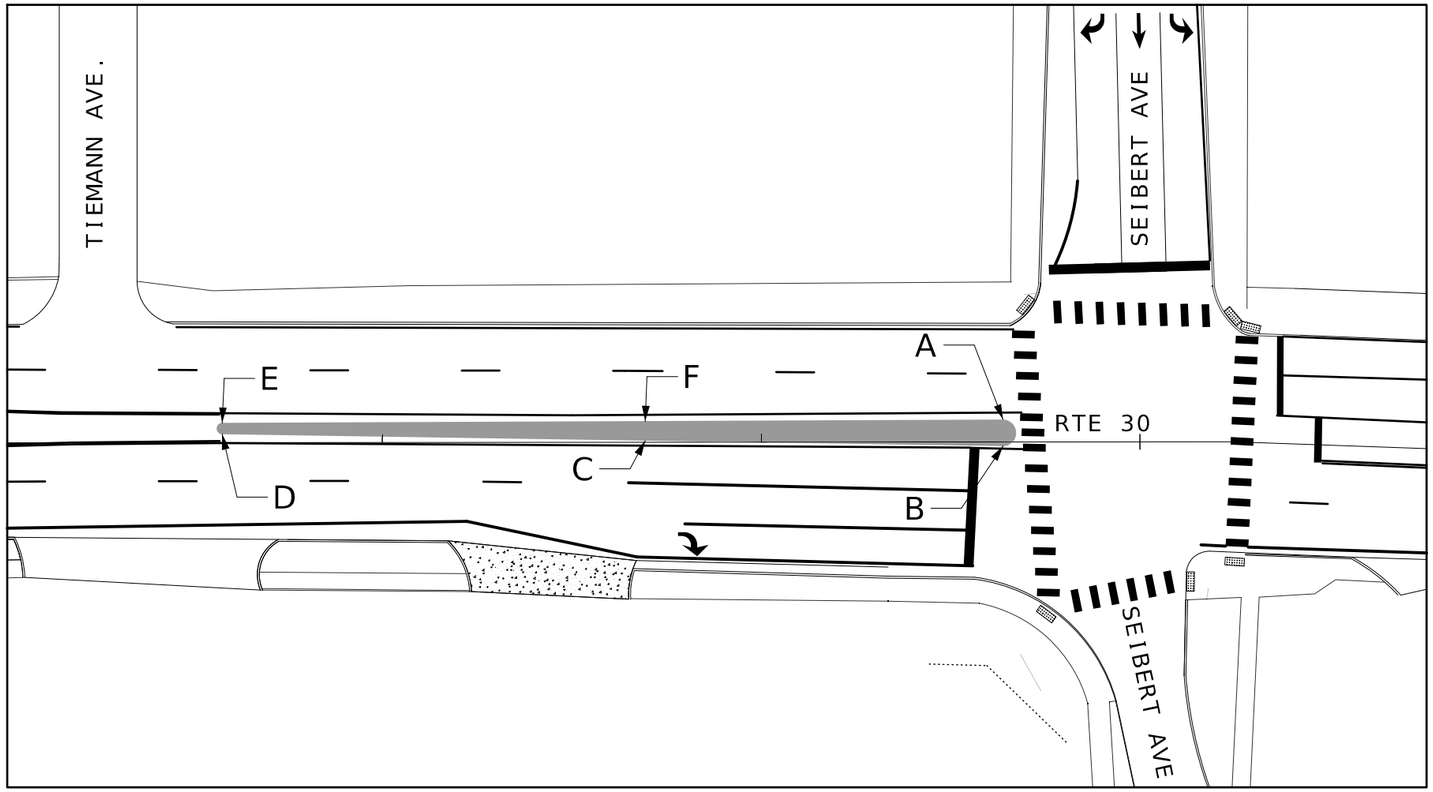
BRIDGE NO.

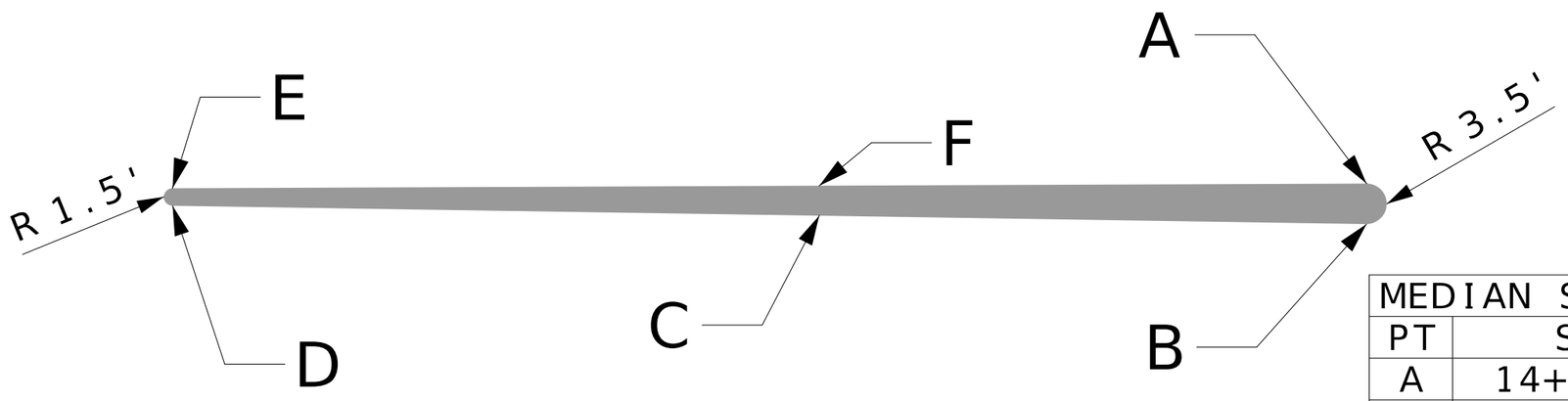
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SPECIAL SHEET
LANDMARK PKWY DR
ISLAND DETAIL SHEET
SHEET 1 OF 1





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) 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.

MEDIAN STRIP AT SEIBERT AVE.		
PT	STA	OFFSET
A	14+63.87	5.87' LT
B	14+63.86	1.13' RT
C	13+69.40	0.40' LT
D	12+57.75	2.20' LT
E	12+57.75	5.20' LT
F	13+69.40	5.56' LT

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 3:36:54 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/30/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	47C

COUNTY: ST. LOUIS

JOB NO.: JSL0081

CONTRACT ID.:

PROJECT NO.:

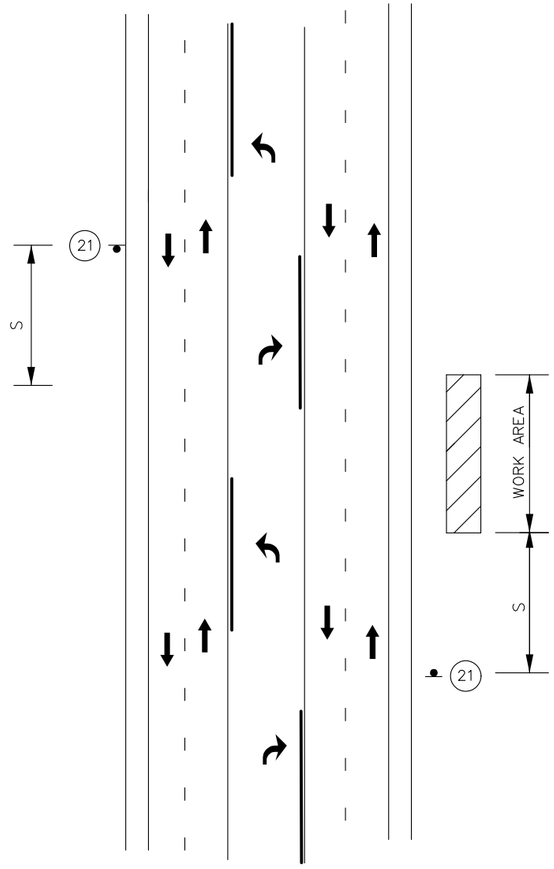
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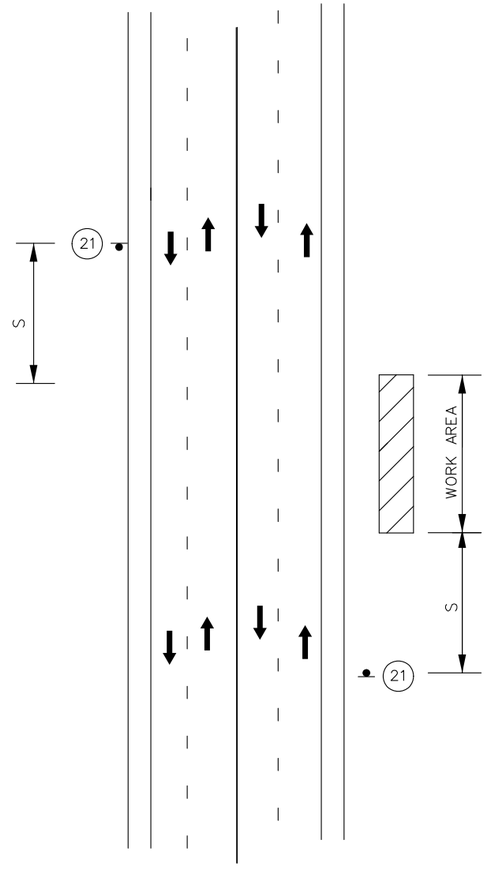
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SPECIAL SHEET
SEIBERT AVE MEDIAN
STRIP DETAIL SHEET
SHEET 1 OF 1

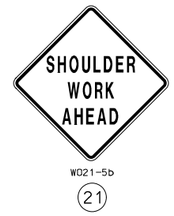




TRAFFIC CONTROL LEGEND

SIGN (SINGLE SIDED)

WORK AREA



WORK BEYOND THE SHOULDER DIVIDED AND UNDIVIDED

SPEED	SIGN SPACING (ft.)
PERM. POSTED (MPH)	UN -DIVIDED (S)
35	200
40-45	350
50	500
60	1000

NOTES:

ONLY APPLICABLE WHEN WORK IS WITHIN THE CLEAR ZONE.

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

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

NOT TO SCALE

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

08/21/2025 1:09:30 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/19/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	48

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

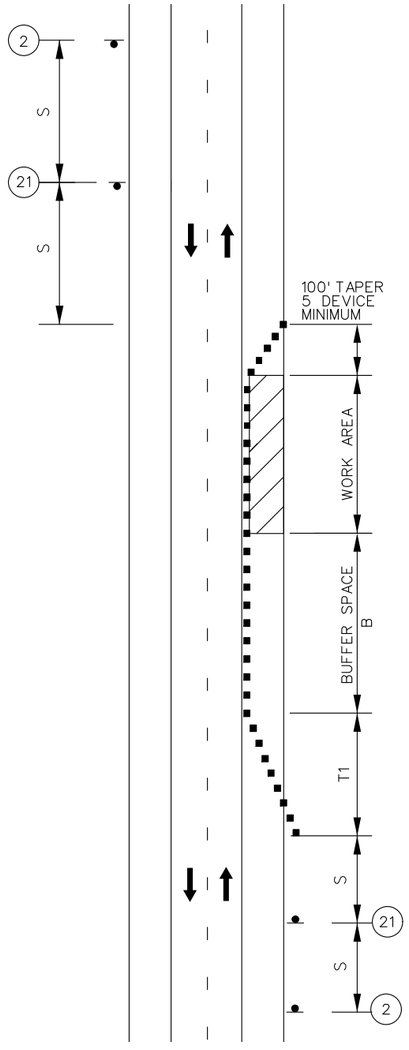
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL
WORK BEYOND THE SHOULDER
DIVIDED AND UNDIVIDED



WORK ON THE SHOULDER
ON DIVIDED AND UNDIVIDED
HIGHWAYS

NOT TO SCALE



W020-1

2



W021-5b

21

NOTES:

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

ROAD WORK AHEAD SIGN NOT NEEDED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER ROAD WORK AHEAD SIGN IS ALREADY USED.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S ROTATING LIGHTS OR STROBE LIGHTS.

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

TRAFFIC CONTROL LEGEND

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

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
50	500	1000	185	660	560	50	80
60	1000	SA-1000 SB-1500 SC-2640	235	840	840	60	120

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset.
2. Lane taper length based on 12 ft. (standard lane width) offset.

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 1:09:39 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/19/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	49

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

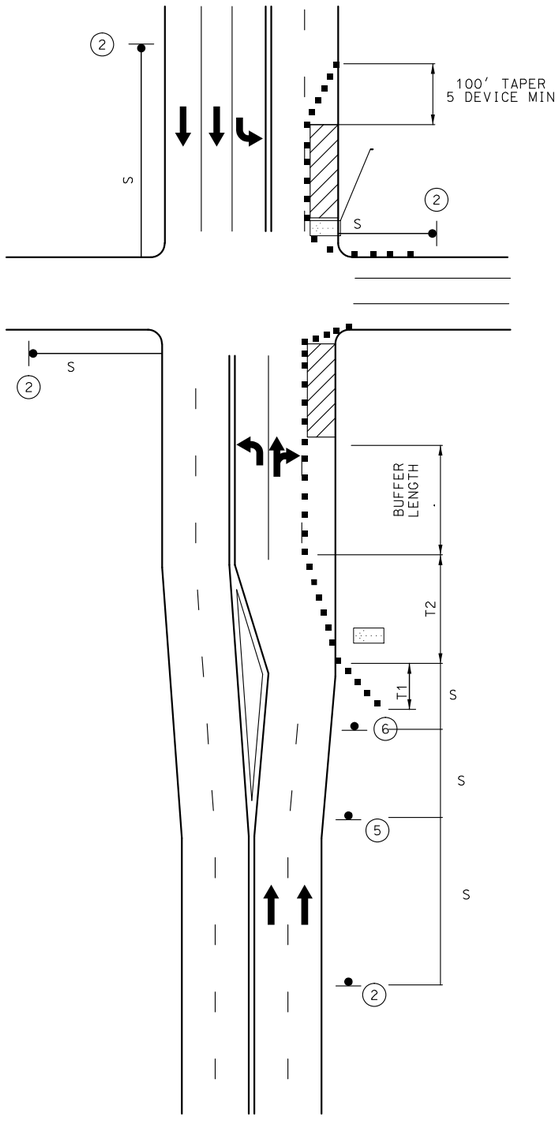
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

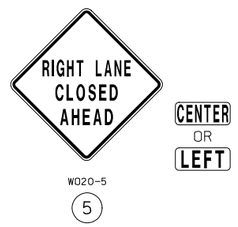
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TRAFFIC CONTROL
WORK ON THE SHOULDER
ON DIVIDED AND UNDIVIDED
HIGHWAYS



RIGHT LANE CLOSURE AT INTERSECTION
WORK ON NEAR OR FAR SIDE







NOTES:

-

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.

FOR SHORT TERM OPERATION, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10-FEET DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACING ARE ONE-HALF OF THE SPACING.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

-

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- WORK AREA
- FLASHING ARROW PANEL

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
35	200	_	70	245	280	35	40
40-45	350	_	150	540	400	40	80
50	500	_	185	660	560	50	80
60	1000	_ _ _	235	840	840	60	120

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset.
2. Lane taper length based on 12 ft. (standard lane width) offset.

NOT TO SCALE

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 1:09:47 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/18/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	50

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

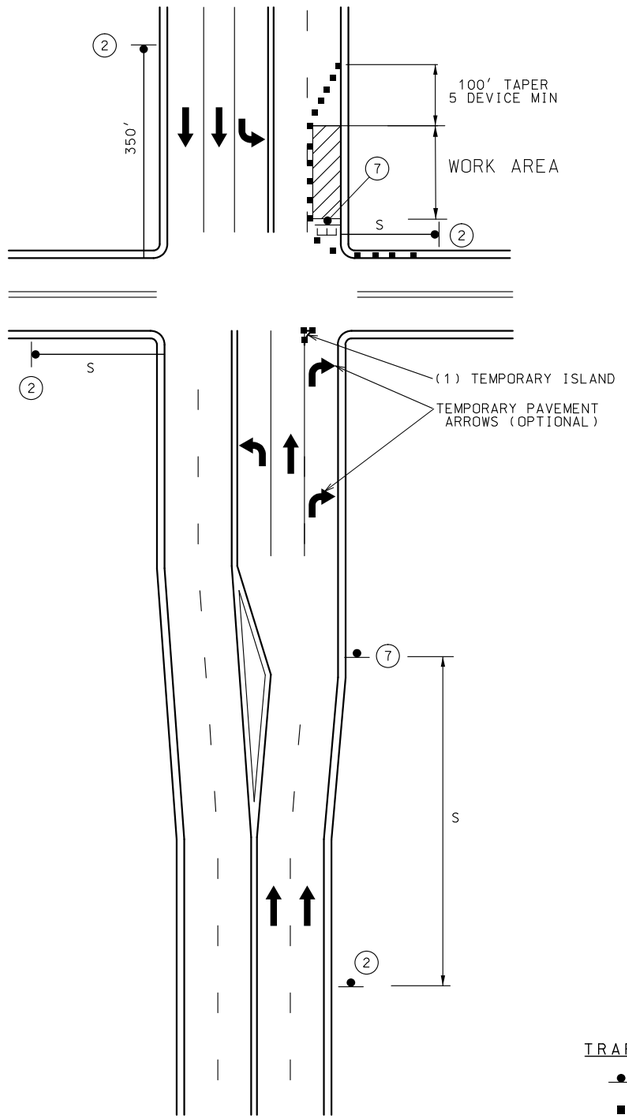
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL RIGHT LANE CLOSURE AT INTERSECTION WORK ON NEAR OR FAR SIDE



RIGHT LANE CLOSURE AT INTERSECTION
WORK ON FAR SIDE



W020-1

2



R3-7R

7

NOTES:

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

FOR SHORT TERM OPERATION, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10-FEET DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACING ARE ONE-HALF OF THE SPACING.

(1) TEMPORARY ISLAND MAY BE USED TO EMPHASIZE THE MANDATORY RIGHT TURN MOVEMENT WHERE THERE IS A SUFFICIENT RIGHT TURN RADIUS.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- WORK AREA
- TYPE 3 MOVEABLE BARRICADE

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UNDIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
50	500	1000	185	660	560	50	80
60	1000	SA-1000 SB-1500 SC-2640	235	840	840	60	120

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset.
2. Lane taper length based on 12 ft. (standard lane width) offset.

NOT TO SCALE

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 1:09:58 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/18/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	51

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

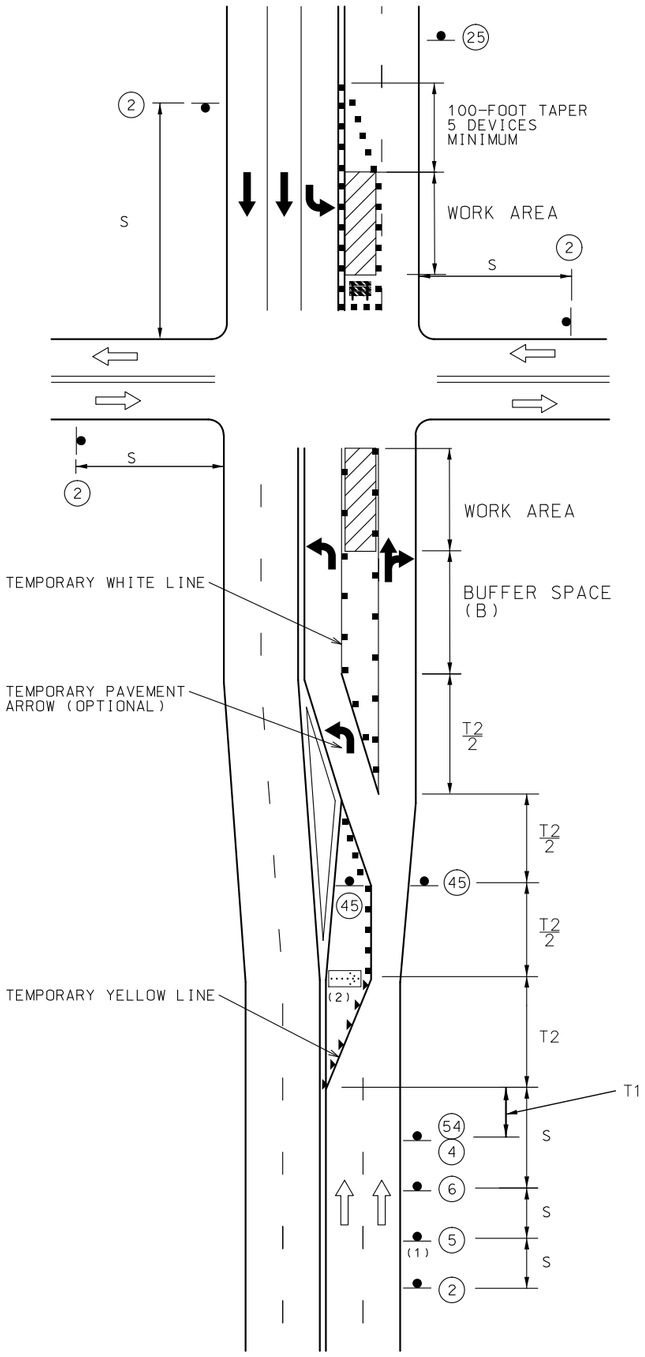
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL
RIGHT LANE CLOSURE
AT INTERSECTION
WORK ON FAR SIDE



LEFT LANE CLOSURE AT INTERSECTION
WORK ON NEAR OR FAR SIDE

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- DIRECTIONAL INDICATOR BARRICADES (DIBS)
- WORK AREA
- FLASHING ARROW PANEL
- TYPE 3 BARRICADE



W020-1
(2)



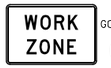
W020-5
(5)



W020-6a
(6)



R3-7L
(45)



G020-5aP
(54)



R2-1
(4)
(3)



R2-1
(25)
(NORMAL SPEED)

NOTES:

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING,TIMING, INDICATIONS OR DETECTOR SETTINGS.

FOR SHORT TERM OPERATION, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10-FEET DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACING ARE ONE-HALF OF THE SPACING.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

(1) LEFT LANE CLOSED AHEAD SIGN MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.

(2) THE FLASHING ARROW BOARD SHOULD BE LOCATED AT THE BEGINNING OF THE MERGING TAPER WHEN MEDIAN WIDTH ALLOWS THIS PLACEMENT.

(3) WORK ZONE SPEED LIMIT SIGN SHALL BE 10 MPH LESS THAN THE EXISTING SPEED LIMIT OF THE NORMAL SPEED LIMIT AT THE WORK ZONE LOCATION.

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
50	500	1000	185	660	560	50	80
60	1000	SA-1000 SB-1500 SC-2640	235	840	840	60	120

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset.
2. Lane taper length based on 12 ft. (standard lane width) offset.

NOT TO SCALE

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 1:10:08 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/18/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	52

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

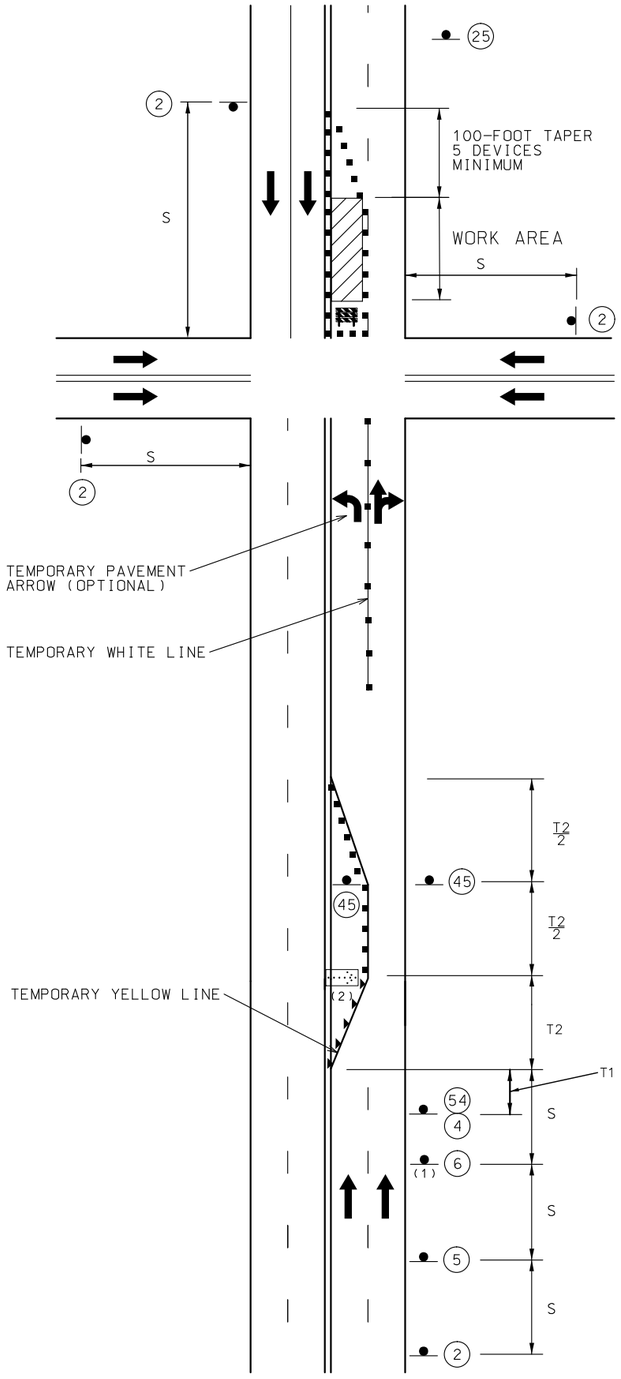
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL
LEFT LANE CLOSURE
AT INTERSECTION
WORK ON NEAR OR
FAR SIDE



LEFT LANE CLOSURE AT INTERSECTION
WORK ON FAR SIDE

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- DIRECTIONAL INDICATOR BARRICADES (DIBS)
- WORK AREA
- FLASHING ARROW PANEL
- TYPE 3 BARRICADE



W020-1
(2)



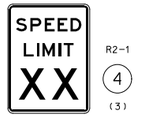
W020-5
(5)



W020-6a
(6)



G020-5aP
(54)



R2-1
(4)
(3)



R2-1
(25)
(NORMAL SPEED)



R3-7L
(45)

NOTES:

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING,TIMING, INDICATIONS OR DETECTOR SETTINGS.

FOR SHORT TERM OPERATION, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10-FEET DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACING ARE ONE-HALF OF THE SPACING.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

(1) LEFT LANE CLOSED AHEAD SIGN MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.

(2) THE FLASHING ARROW BOARD SHOULD BE LOCATED AT THE BEGINNING OF THE MERGING TAPER WHEN MEDIAN WIDTH ALLOWS THIS PLACEMENT.

(3) WORK ZONE SPEED LIMIT SIGN SHALL BE 10 MPH LESS THAN THE EXISTING SPEED LIMIT OF THE NORMAL SPEED LIMIT AT THE WORK ZONE LOCATION.

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
50	500	1000	185	660	560	50	80
60	1000	SA-1000 SB-1500 SC-2640	235	840	840	60	120
1 Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.							

NOT TO SCALE

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 1:10:19 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/18/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	53

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

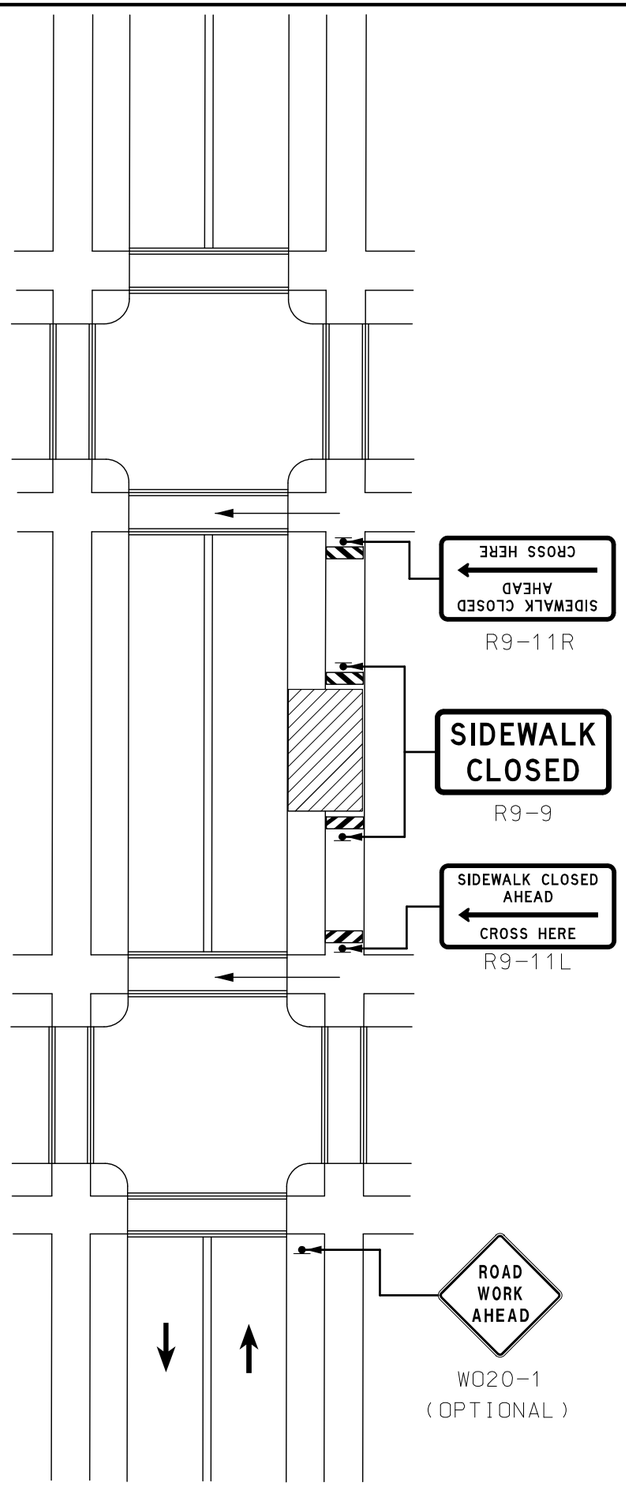
PROJECT NO.

BRIDGE NO.

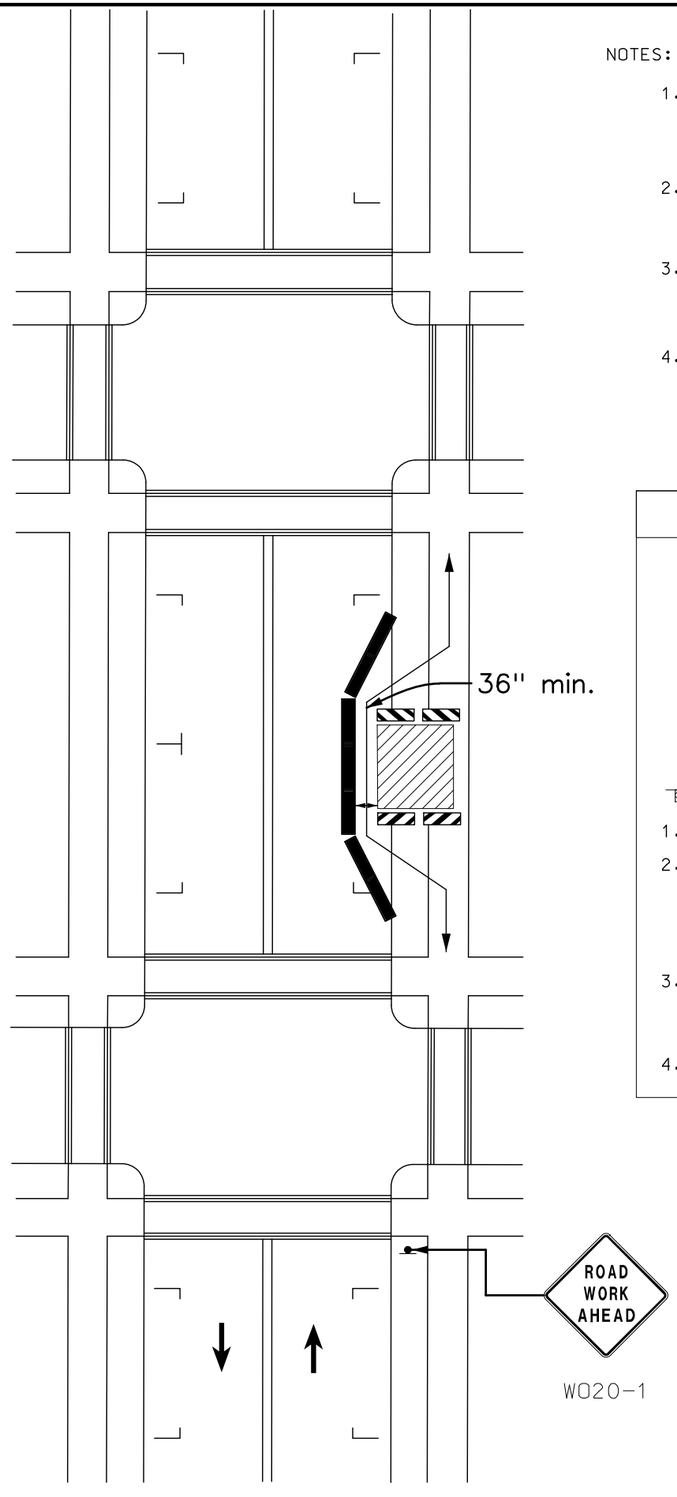
DESCRIPTION	DATE

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

TRAFFIC CONTROL
LEFT LANE CLOSURE
AT INTERSECTION
WORK ON FAR SIDE



SIDEWALK DETOUR

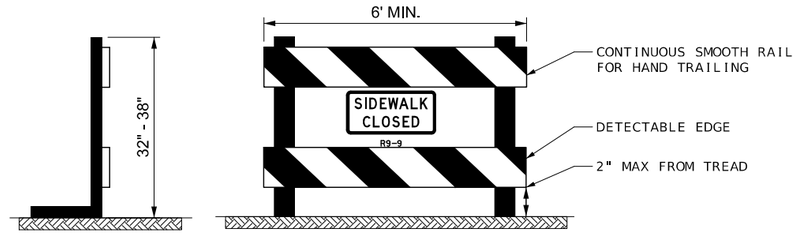


SIDEWALK DIVERSION

NOTES:

1. WHEN CROSSWALKS OR OTHER PEDESTRIAN FACILITIES ARE CLOSED OR RELOCATED, TEMPORARY FACILITIES SHALL BE DETECTABLE AND SHALL INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING PEDESTRIAN FACILITY.
2. WHERE HIGH SPEEDS ARE ANTICIPATED, A TEMPORARY TRAFFIC BARRIER AND, IF NECESSARY, A CRASH CUSHION SHOULD BE USED TO SEPARATE SIDEWALKS FROM VEHICULAR TRAFFIC.
3. ONLY THE TTC DEVICES RELATED TO PEDESTRIANS ARE SHOWN. OTHER DEVICES, SUCH AS LANE CLOSURE SIGNING OR "ROAD NARROWS" SIGNS, MAY BE USED TO CONTROL VEHICULAR TRAFFIC.
4. SIGNS, SUCH AS "KEEP RIGHT (LEFT)", MAY BE PLACED ALONG A TEMPORARY SIDEWALK TO GUIDE OR DIRECT PEDESTRIANS.

ADA COMPLIANT MOVEABLE BARRICADE



1. WARNING LIGHTS SHALL NOT BE ATTACHED TO ADA COMPLIANT BARRICADES.
2. CHEVRON RAILS ON THE ADA COMPLIANT BARRICADES MUST BE 8" WIDE MIN. AND MEET TYPE 3 RETRO-REFLECTIVE SHEETING AND COLOR CONTRAST BARRICADE RAILS AS SHOWN. THE TOP RAIL MUST PROVIDE A SMOOTH CONTINUOUS RAIL SURFACE FOR HAND TRAILING WITH NO SPLINTERS,BURRS, OR SHARP EDGES. A MINIMUM OF TWO 8" RAILS REQUIRED.
3. NO TRIPPING HAZARDS FROM THE BARRICADES ARE ALLOWED WITHIN THE PEDESTRIAN SPACE. THIS MEANS NO FEET OR BARS USED TO HOLD THE RAILS OR SUPPORT THE DEVICE ARE ALLOWED WUTHIN THE WALKWAY. ALL FEET AND BALLASTS WILL NEED TO BE BEHIND THE DEVICE.
4. THE BARRICADE MUST BE THE FULL WIDTH OF THE CLOSED SIDEWALK.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- WORK AREA
- LONGITUDINAL CHANNELIZING DEVICE
- ADA COMPLIANT MOVEABLE BARRICADE
- DIRECTION OF PEDESTRIAN DETOUR
- DIRECTION OF TRAFFIC

NOT TO SCALE

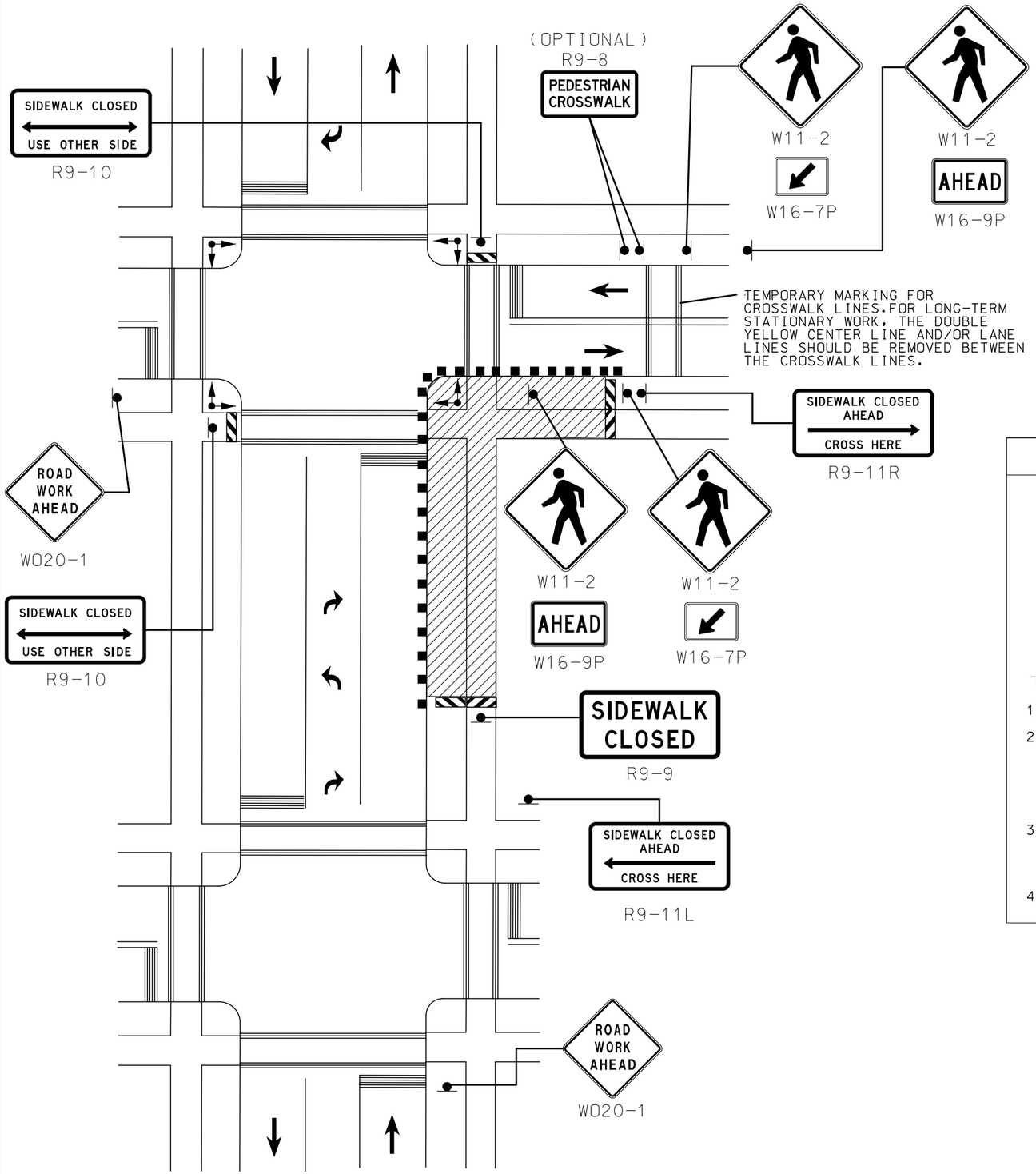
STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
05/30/2025 11:06:27 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/26/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 54
COUNTY: ST. LOUIS
JOB NO.: JSL0081
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
SIDEWALK DETOUR
OR DIVERSION



NOTES:

1. WHEN CROSSWALKS OR OTHER PEDESTRIAN FACILITIES ARE CLOSED OR RELOCATED, TEMPORARY FACILITIES SHALL BE DETECTABLE AND SHALL INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING PEDESTRIAN FACILITY.

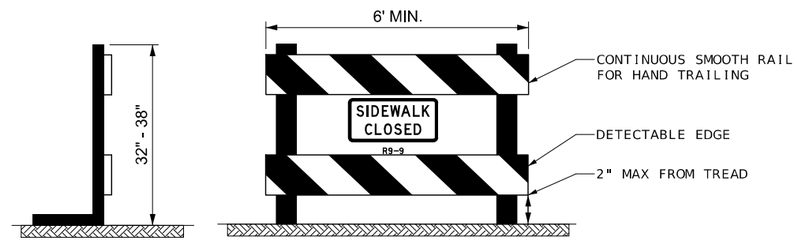
2. CURB PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MIDBLOCK CROSSWALK.

3. AUDIBLE INFORMATION DEVICES SHOULD BE CONSIDERED WHERE MIDBLOCK CLOSINGS AND CHANGED CROSSWALK AREAS CAUSE INADEQUATE COMMUNICATION TO BE PROVIDED TO PEDESTRIANS WHO HAVE VISUAL DISABILITIES.

4. PEDESTRIAN TRAFFIC SIGNALS DISPLAYS CONTROLLING CLOSED CROSSWALKS SHOULD BE COVERED OR DEACTIVATED.

5. ONLY THE TTC DEVICES RELATED TO PEDESTRIANS ARE SHOWN. OTHER DEVICES, SUCH AS LANE CLOSURE SIGNING OR "ROAD NARROWS" SIGNS, MAY BE USED TO CONTROL VEHICULAR TRAFFIC.

ADA COMPLIANT MOVEABLE BARRICADE



1. WARNING LIGHTS SHALL NOT BE ATTACHED TO ADA COMPLIANT BARRICADES.
2. CHEVRON RAILS ON THE ADA COMPLIANT BARRICADES MUST BE 8" WIDE MIN. AND MEET TYPE 3 RETRO-REFLECTIVE SHEETING AND COLOR CONTRAST BARRICADE RAILS AS SHOWN. THE TOP RAIL MUST PROVIDE A SMOOTH CONTINUOUS RAIL SURFACE FOR HAND TRAILING WITH NO SPLINTERS,BURRS, OR SHARP EDGES. A MINIMUM OF TWO 8" RAILS REQUIRED.
3. NO TRIPPING HAZARDS FROM THE BARRICADES ARE ALLOWED WITHIN THE PEDESTRIAN SPACE. THIS MEANS NO FEET OR BARS USED TO HOLD THE RAILS OR SUPPORT THE DEVICE ARE ALLOWED WUTHIN THE WALKWAY. ALL FEET AND BALLASTS WILL NEED TO BE BEHIND THE DEVICE.
4. THE BARRICADE MUST BE THE FULL WIDTH OF THE CLOSED SIDEWALK.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- WORK AREA
- ADA COMPLIANT MOVEABLE BARRICADE
- DIRECTION OF TRAFFIC
- TRAFFIC OR PEDESTRIAN SIGNAL
- CHANNELIZER (TRIM-LINE)

NOT TO SCALE

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 11:06:36 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/26/2025

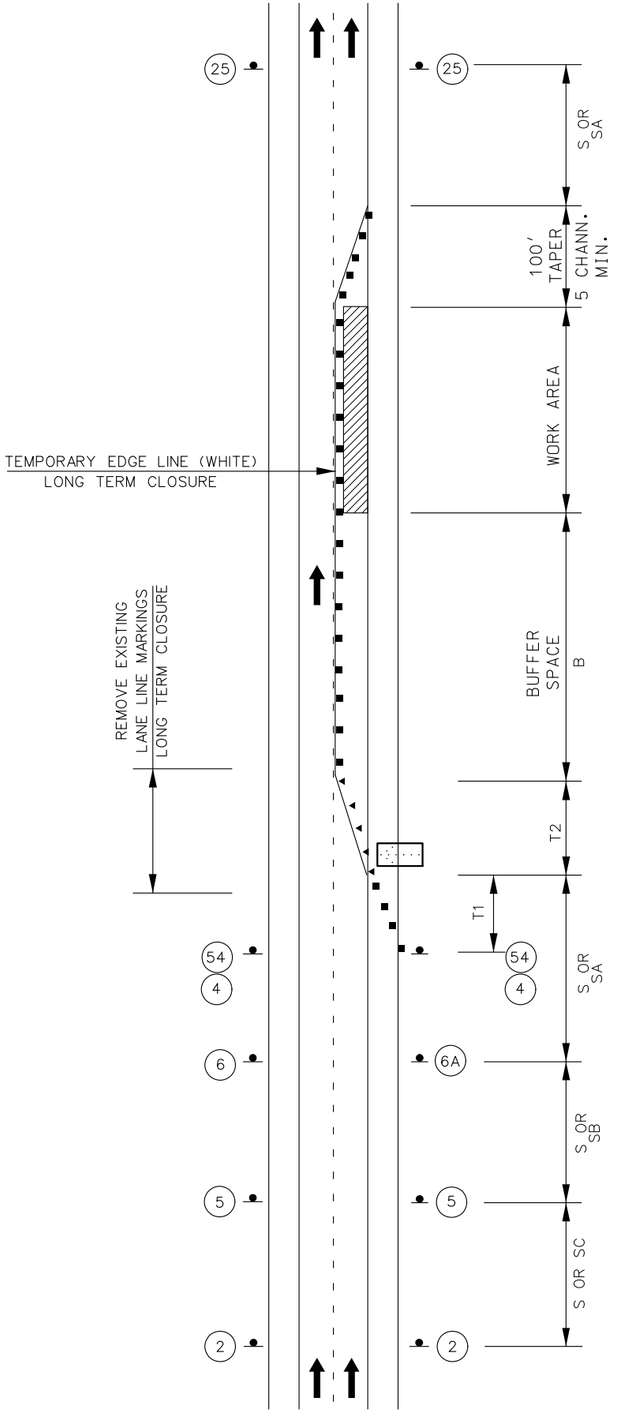
ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	55

COUNTY: ST. LOUIS
JOB NO.: JSL0081
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 CROSSWALK CLOSURES WITH PEDESTRIAN DETOURS



STATIONARY LANE CLOSURE
ON A DIVIDED HIGHWAY



W020-1
2



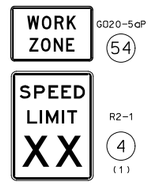
W020-5
5



W020-6a
6



W04-1aL
6A



G020-5aP
54
R2-1
4
(1)



R2-1
25
(NORMAL SPEED)

NOTES:

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES.

REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.

THIS INFORMATION ALSO SHALL BE USED WHEN WORK IS BEING PERFORMED IN THE LANE ADJACENT TO THE MEDIAN ON A DIVIDED HIGHWAY. IN THIS CASE,THE LEFT LANE CLOSED SIGNS AND THE CORRESPONDING MERGE OR LANE ENDS SIGNS SHALL BE SUBSTITUTED.

WHEN A SIDE ROAD INTERSECTS THE HIGHWAY WITHIN THE TTC ZONE, ADDITIONAL TTC DEVICES SHALL BE PLACED AS NEEDED.

(1) WORK ZONE SPEED LIMIT SIGN SHALL BE 10 MPH LESS THAN THE EXISTING SPEED LIMIT OF THE NORMAL SPEED LIMIT AT THE WORK ZONE LOCATION.

SPEED	SIGNS (ft.)	TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	SIGN SPACING (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
35	200	70	245	280	35	40
40-45	500	150	540	400	40	80
50	1000	185	660	560	50	80
60	SA-1000 SB-1500 SC-2640	235	840	840	60	120

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset.
2. Lane taper length based on 12 ft. (standard lane width) offset.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER (TRIM-LINE)
- WORK AREA
- FLASHING ARROW PANEL

NOT TO SCALE

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 1:18:35 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/18/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	56

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

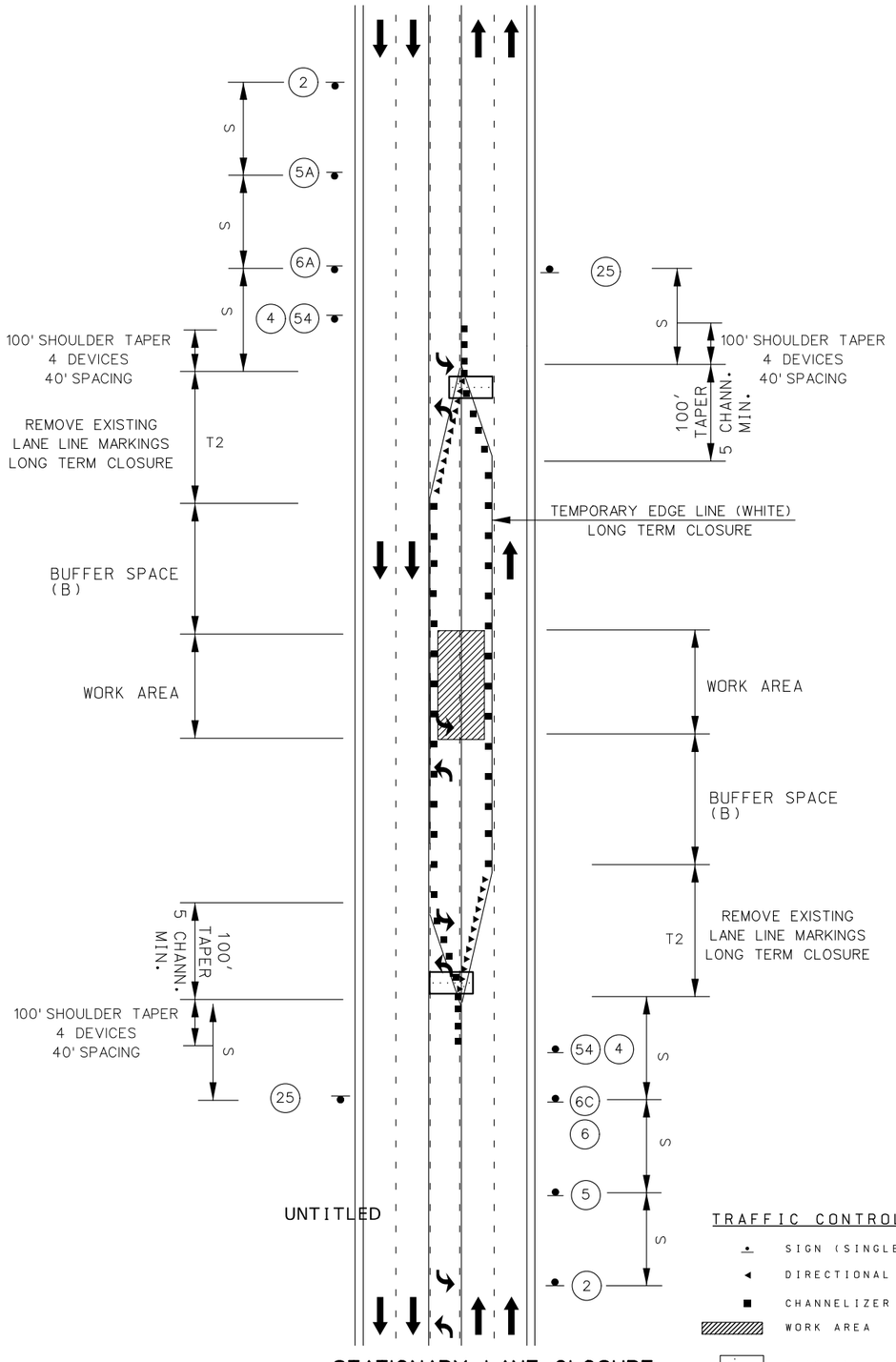
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

TRAFFIC CONTROL
STATIONARY LANE
CLOSURE ON A
DIVIDED HIGHWAY



STATIONARY LANE CLOSURE
ON A MULTI-LANE HIGHWAY

NOT TO SCALE



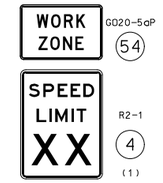
W020-1
(2)



W020-5
(5)



W020-6a
(6)



G020-5aP
(54)
R2-1
(4)
(1)



R2-1
(25)
(NORMAL SPEED)



W04-1aR
(6C)



W020-5
(5A)



W020-6a
(6A)

NOTES:

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES.

REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.

THIS INFORMATION ALSO SHALL BE USED WHEN WORK IS BEING PERFORMED IN THE LANE ADJACENT TO THE MEDIAN ON A DIVIDED HIGHWAY. IN THIS CASE,THE LEFT LANE CLOSED SIGNS AND THE CORRESPONDING MERGE OR LANE ENDS SIGNS SHALL BE SUBSTITUTED.

WHEN A SIDE ROAD INTERSECTS THE HIGHWAY WITHIN THE TTC ZONE, ADDITIONAL TTC DEVICES SHALL BE PLACED AS NEEDED.

(1) WORK ZONE SPEED LIMIT SIGN SHALL BE 10 MPH LESS THAN THE EXISTING SPEED LIMIT OF THE NORMAL SPEED LIMIT AT THE WORK ZONE LOCATION.

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
50	500	1000	185	660	560	50	80
60	1000	SA-1000 SB-1500 SC-2640	235	840	840	60	120

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset.
2. Lane taper length based on 12 ft. (standard lane width) offset.

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 1:18:45 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/18/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	57

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

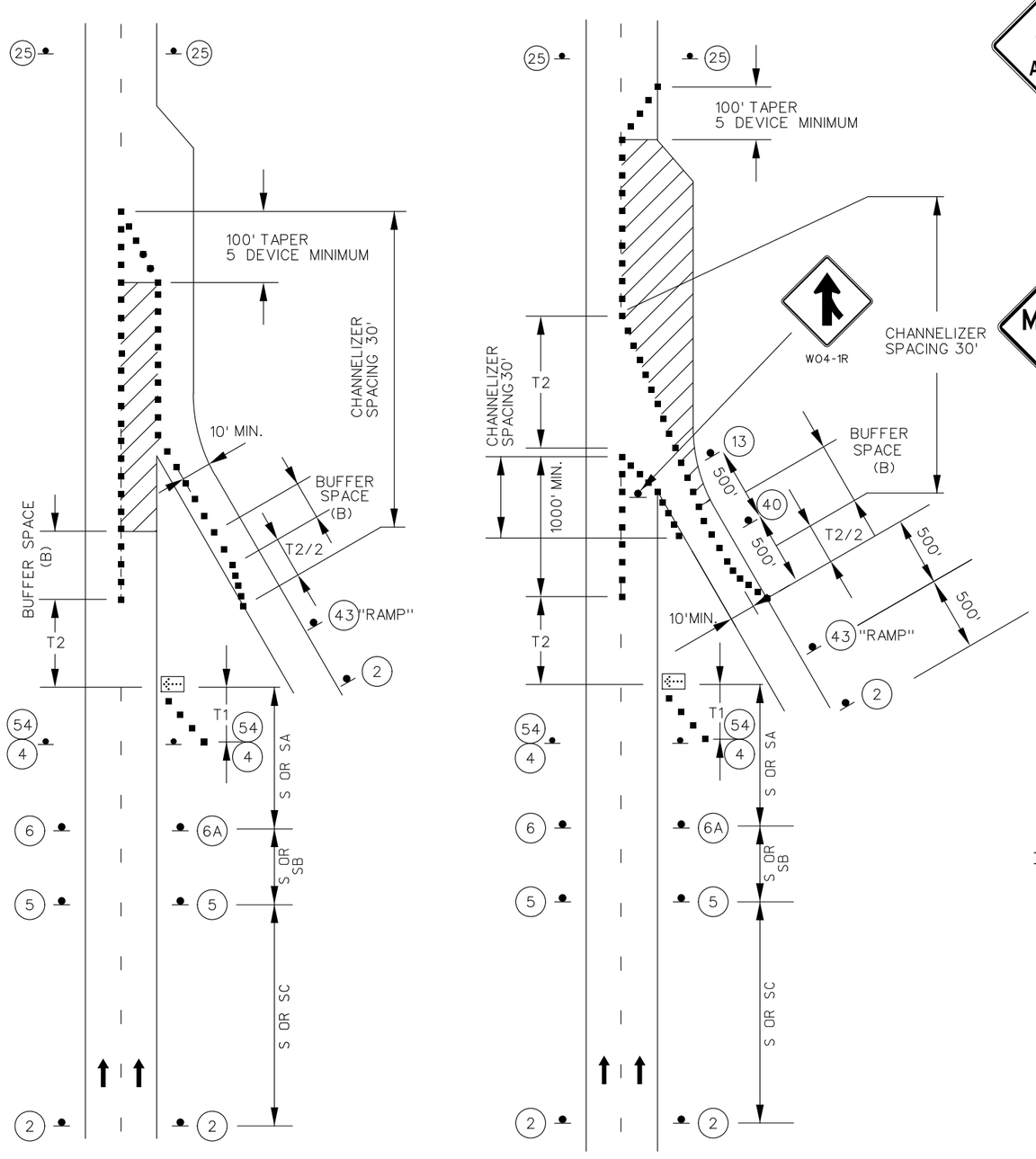
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL
STATIONARY LANE
CLOSURE ON A
MULTI-LANE HIGHWAY



WORK IN THE VICINITY
OF AN ENTRANCE RAMP

NOT TO SCALE

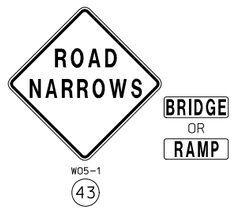








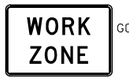














NOTES:

REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.
TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.
RAMP NARROWS SIGN IS REQUIRED WHEN RAMP WIDTH IS REDUCED.

YIELD SIGN SHOULD BE PLACED ON THE RAMP TO PROVIDE ADEQUATE VISIBILITY OF MAINLINE TRAFFIC. WHERE INADEQUATE ACCELERATION DISTANCE EXISTS FOR THE TEMPORARY ENTRANCE, THE YIELD SIGN SHALL BE REPLACED WITH STOP SIGNS (ONE ON EACH SIDE OF THE APPROACH).

FOR RAMPS WITH SHARP CURVES OR MULTIPLE LANES, RAMP SIGNS MAY BE PLACED ON BOTH SIDES OF THE RAMP.

THE LOCATION OF THE SIGN SEQUENCE AND MERGE TAPER SHOULD BE ADJUSTED SO THAT THE ARROW PANEL LOCATION IS NOT CONFUSING TO MOTORISTS ON THE RAMP.

(1) WORK ZONE SPEED LIMIT SIGN SHALL BE 10 MPH LESS THAN THE EXISTING SPEED LIMIT OF THE NORMAL SPEED LIMIT AT THE WORK ZONE LOCATION.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- WORK AREA
- FLASHING ARROW PANEL
- DIRECTIONAL INDICATOR BARRICADES

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
50	500	1000	185	660	560	50	80
60	1000	SA-1000 SB-1500 SC-2640	235	840	840	60	120

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset.
2. Lane taper length based on 12 ft. (standard lane width) offset.

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 1:18:55 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/18/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	58

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

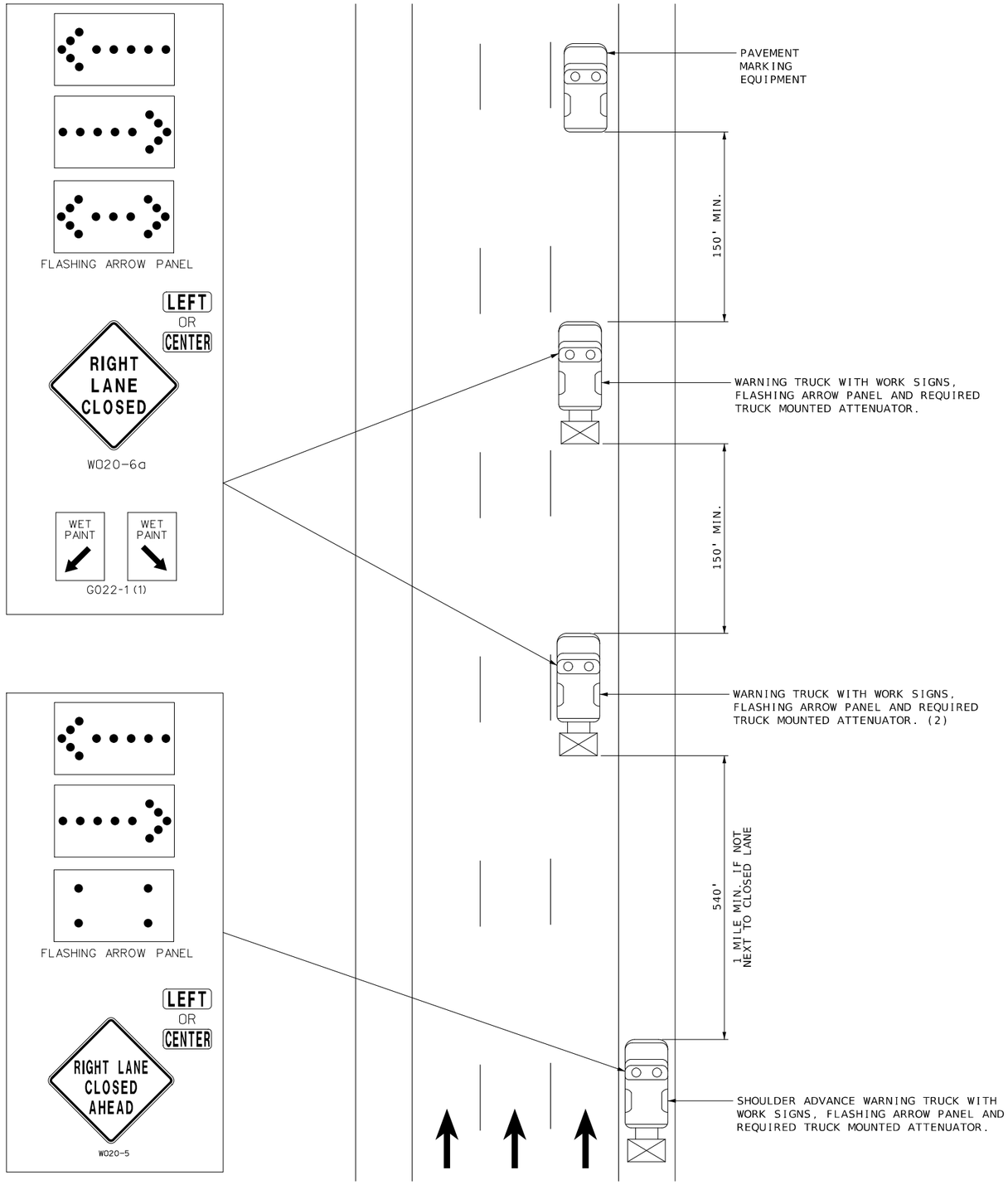
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL
WORK IN THE VICINITY
OF AN ENTRANCE RAMP



STRIPING ON MULTI-LANE HIGHWAY

NOT TO SCALE

NOTES:

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

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

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

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

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

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

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

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

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 1:19:05 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/18/2025

ROUTE	STATE
340	MO
DISTRICT	SHEET NO.
SL	59

COUNTY
ST. LOUIS

JOB NO.
JSL0076

CONTRACT ID.

PROJECT NO.

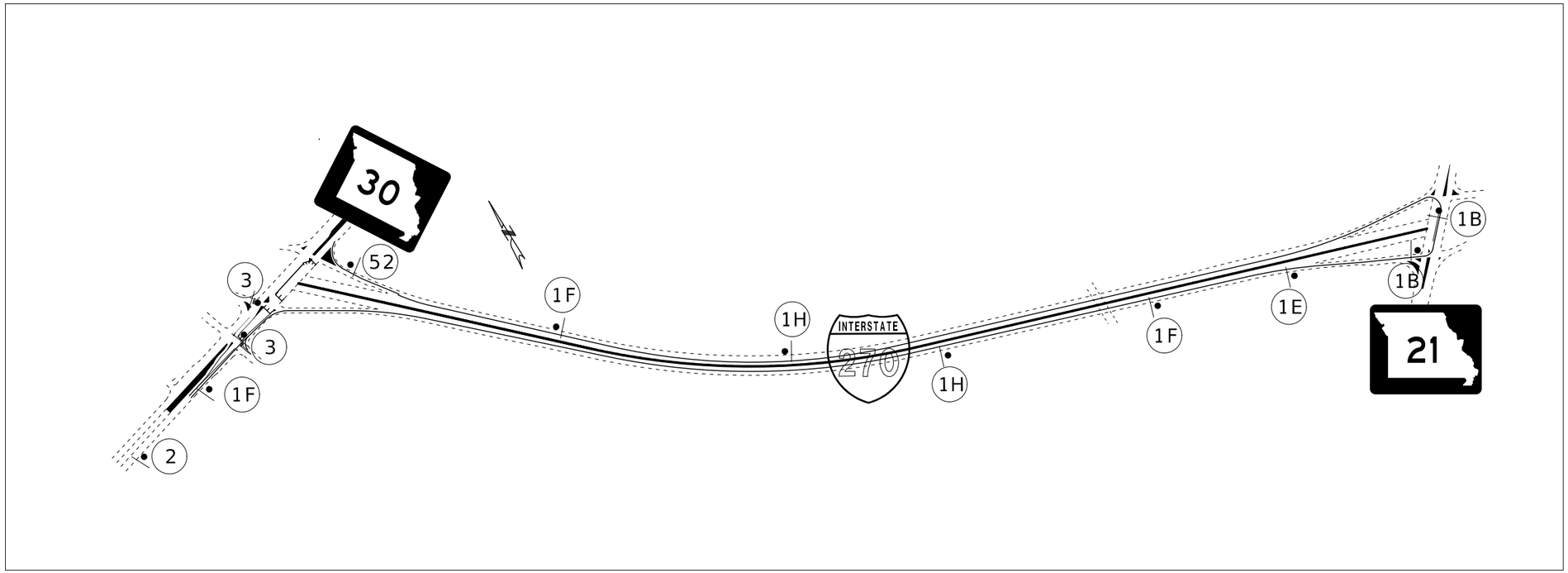
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DESCRIPTION	DATE

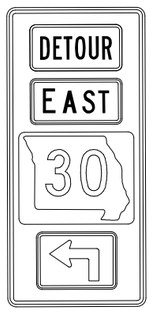
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL
STRIPING ON
MULTI-LANE HIGHWAY



1B
60"x36"



SPECIAL SIGN

1E
60"x36"



SPECIAL SIGN

1F
60"x36"



SPECIAL SIGN

1H
60"x36"



SPECIAL SIGN



MO4-8a

52



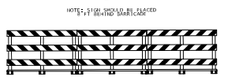
WO20-2

2



R11-2

3



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- MOVEABLE BARRICADE

NOTES:

BRIDGE CLOSURE AND DETOUR SHALL ONLY BE USED DURING NIGHTTIME OPERTATIONS OR DURING PLANNED WEEKEND CLOSURES

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

08/21/2025 1:19:14 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/18/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	60

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

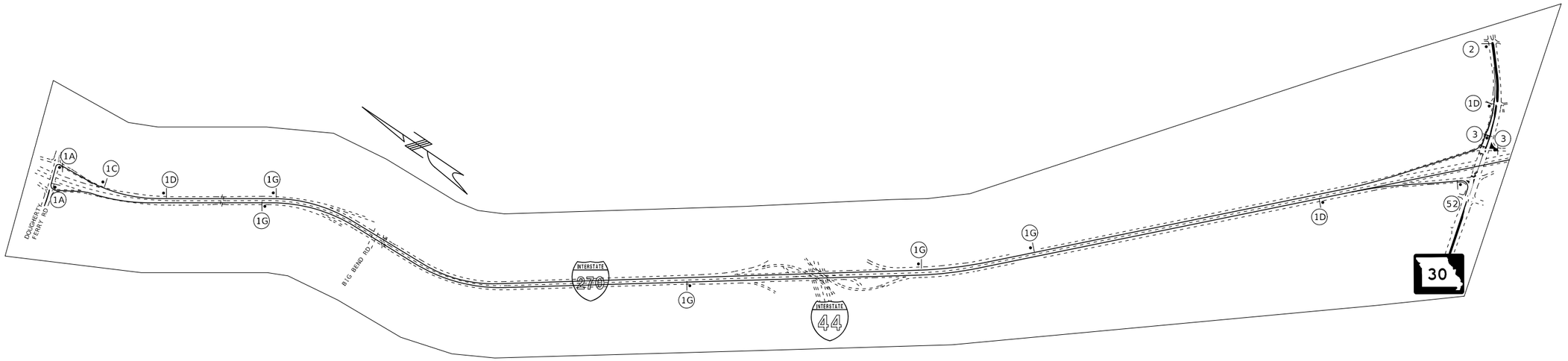
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL
ROUTE 30 DETOUR
EASTBOUND BRIDGE CLOSURE



1A
60"x36"



SPECIAL SIGN

1C
60"x36"



SPECIAL SIGN

1D
60"x36"



SPECIAL SIGN

1G
60"x36"

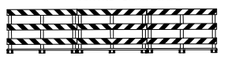


SPECIAL SIGN

END DETOUR
MO4-8a
52

ROAD CLOSED
R11-2
3

NOTE: SIGN SHOULD BE PLACED 8 FT BEHIND BARRICADE



DETOUR AHEAD
WO20-2
2

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- MOVEABLE BARRICADE
- TEMPORARY CONCRETE TRAFFIC BARRIER WITH ASTM TYPE IV 6 INCH RED REFLECTIVE SHEETING WITH 0.080 INCH ALUMINUM BACKING

NOTES:

BRIDGE CLOSURE AND DETOUR SHALL ONLY BE USED DURING NIGHTTIME OPERTATIONS OR DURING PLANNED WEEKEND CLOSURES

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

Stuart M. McN

05/21/2025 1:19:24 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

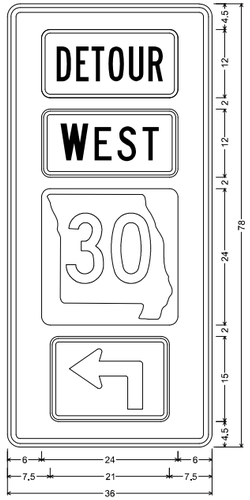
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8/18/2025	
ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	61
COUNTY	
ST. LOUIS	
JOB NO.	
JSL0081	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

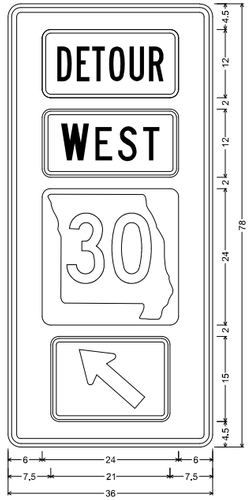
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TRAFFIC CONTROL
ROUTE 30 DETOUR
WESTBOUND BRIDGE CLOSURE



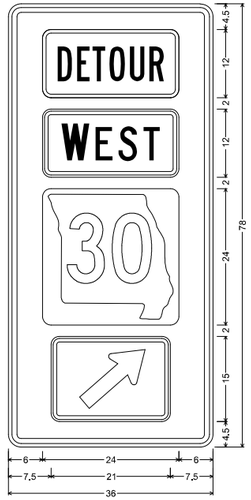
MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

	6.000
	6.000
	6.000
	7.500



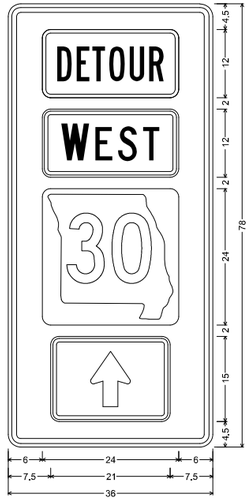
MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

	6.000
	6.000
	6.000
	7.500



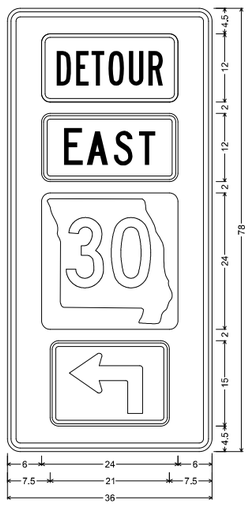
MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

	6.000
	6.000
	6.000
	7.500



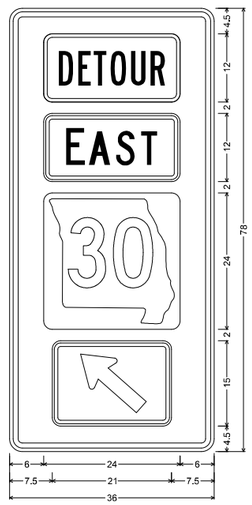
MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

	6.000
	6.000
	6.000
	7.500



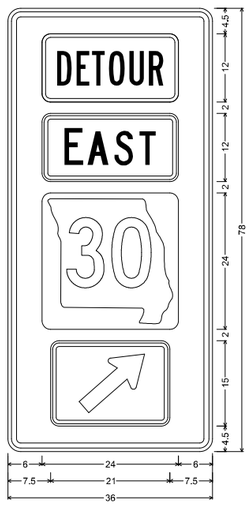
MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

	6.000
	6.000
	6.000
	7.500



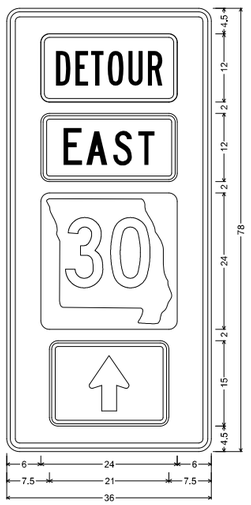
MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

	6.000
	6.000
	6.000
	7.500



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

	6.000
	6.000
	6.000
	7.500



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

	6.000
	6.000
	6.000
	7.500

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 1:19:34 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/18/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	62

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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
ROUTE 30 DETOUR
SIGN DETAILS

WEBER R

55

DUSK TO DAWN LIGHT
(TO BE INSTALLED BY OTHERS)

PP

SIGN

POT STA 56+98.51 R2

S70°56'32"W

DUSK TO DAWN LIGHT
(TO BE INSTALLED BY OTHERS)

SIGN

SCALE

0 20 40 60

ELGIN AVE

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

08/21/2025 1:21:34 PM
STUART ROBINSON MCNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/21/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	63

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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)

LIGHTING SHEET
SHEET 1 OF 4

60

POT STA 63+06.26 R2

S70°40'32"W

DUSK TO DAWN LIGHT
(TO BE INSTALLED BY OTHERS)

VASEL AVE

SCALE

0 20 40 60

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

08/21/2025 1:21:44 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/21/2025

ROUTE	STATE
30	MO

DISTRICT	SHEET NO.
SL	64

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

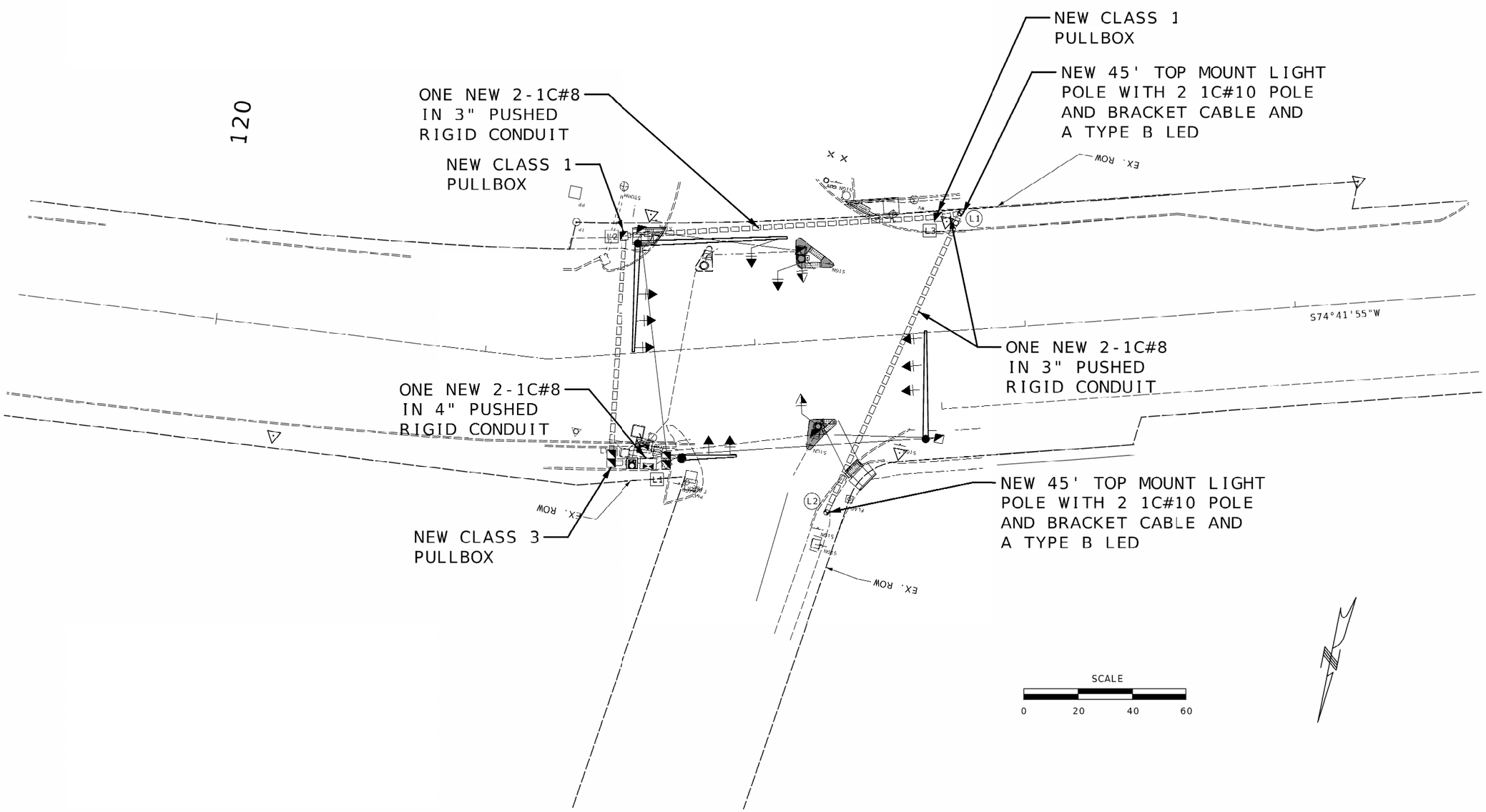
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

LIGHTING SHEET
SHEET 2 OF4



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

08/21/2025 1:21:55 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

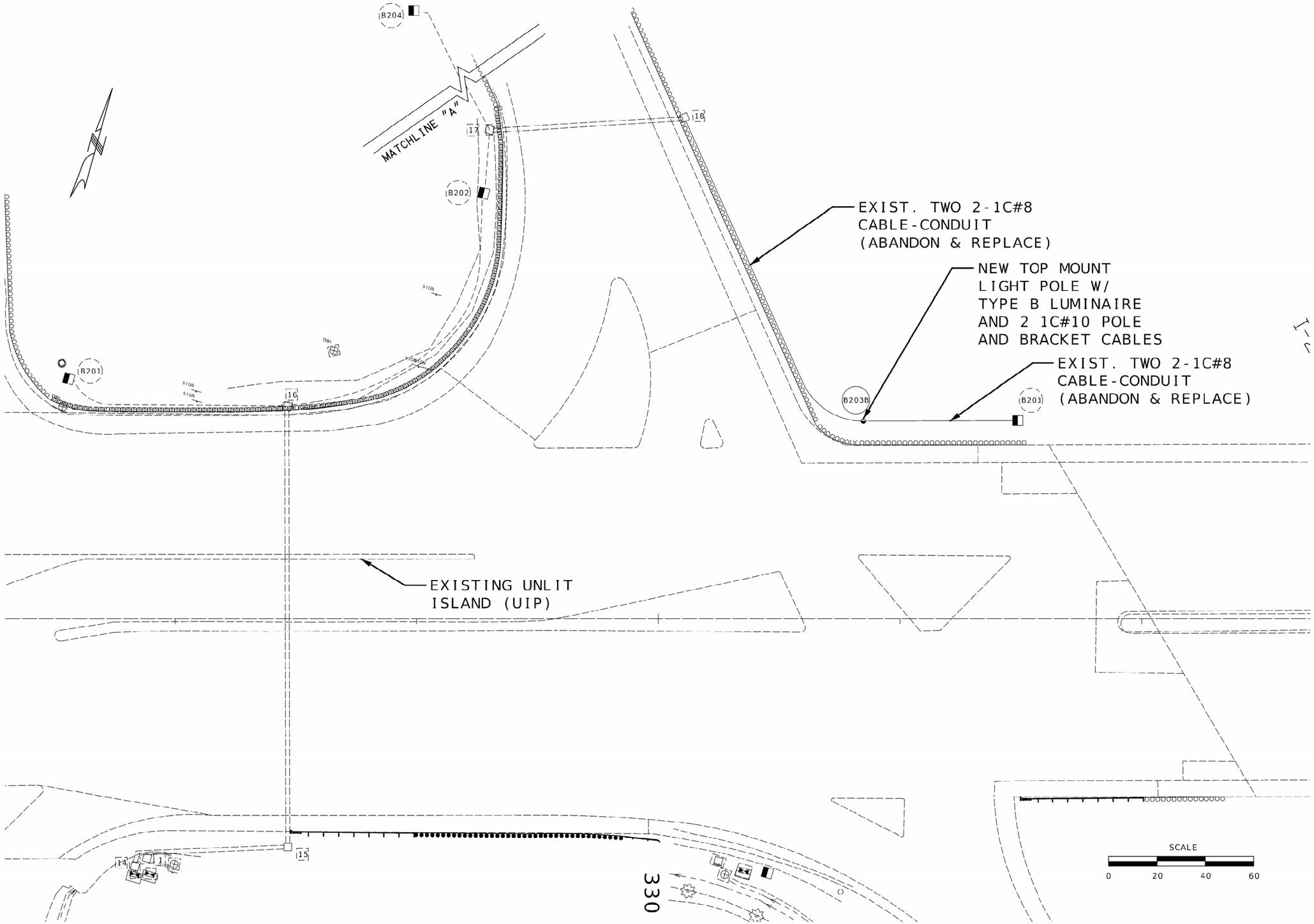
DATE PREPARED	8/21/2025
ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	65
COUNTY	ST. LOUIS
JOB NO.	JSL0081
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

LIGHTING SHEET
SHEET 3 OF4



STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/21/2025 1:22:06 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED	
8/21/2025	
ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	66
COUNTY	
ST. LOUIS	
JOB NO.	
JSL0081	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

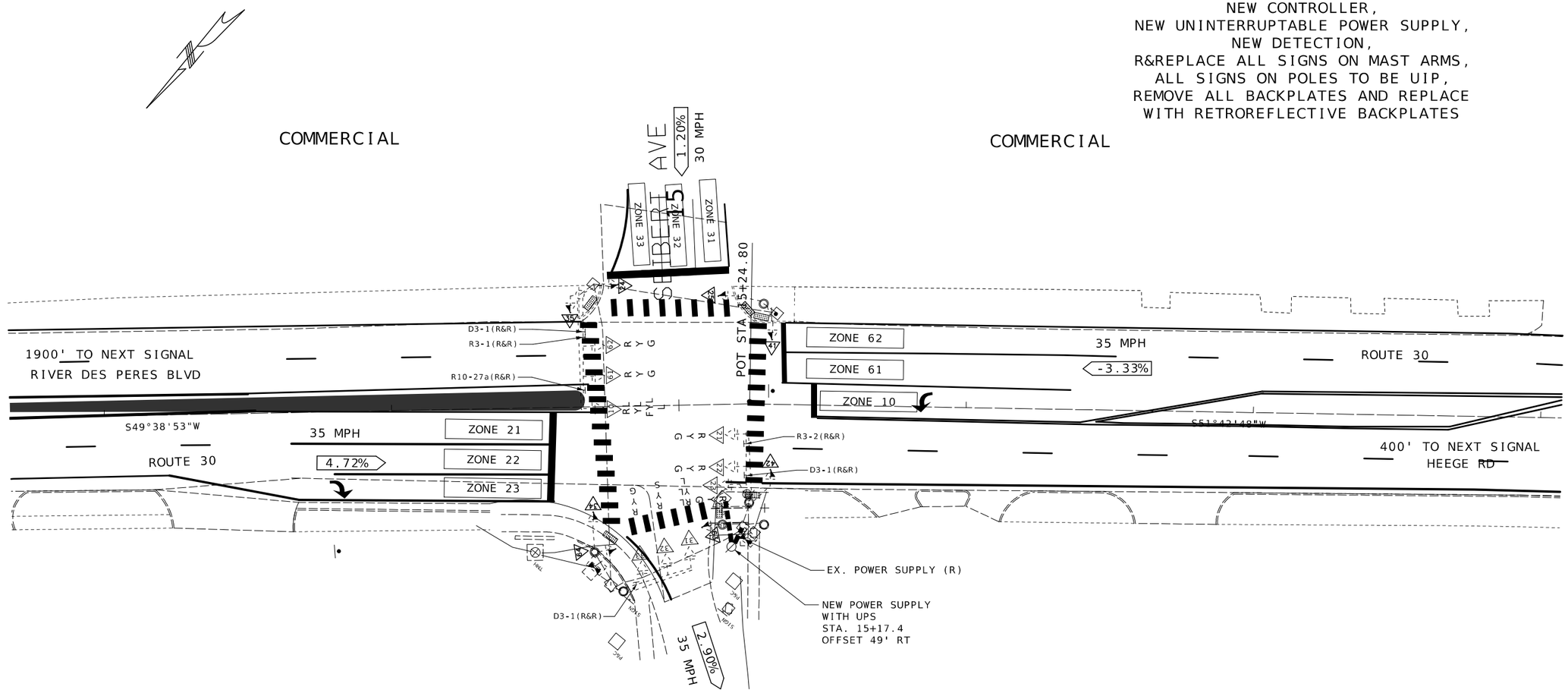
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LIGHTING SHEET
SHEET 4 OF 4

TRAFFIC SIGNALS LEGEND			
CONTROLLER	CCTV CAMERA	UNINT. POWER SUPPLY	
POWER SUPPLY	VIDEO DETECTOR	NEW CONDUIT (PUSHED)	
SIGNAL HEAD (PEDESTRIAN)	PUSH BUTTON DETECTOR	EX. CONDUIT	
SIGNAL HEAD (STANDARD)	PREFORMED PULL BOX	MAST ARM	
		ZONE ##	DETECTION ZONE

SIGNAL UPGRADES:

NEW CONTROLLER,
NEW UNINTERRUPTABLE POWER SUPPLY,
NEW DETECTION,
R&REPLACE ALL SIGNS ON MAST ARMS,
ALL SIGNS ON POLES TO BE UIP,
REMOVE ALL BACKPLATES AND REPLACE
WITH RETROREFLECTIVE BACKPLATES



SCALE

0 20 40 60

INTERSECTION

ROUTE 30 AT SEIBERT AVE

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 12:37:58 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	67

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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 PLAN SHEET
SEIBERT AVE

CONDUIT

FROM	TO	CTR TO CTR DISTANCE	TRENCHED 2"	TRENCHED 3"	PUSHED 3"
SOURCE	PS/LT/CTRL	16.7	(25)		
U.P.S.	PB1	8	7		
	SUBTOTAL		7		
	TOTAL		7		

CABLE

FROM	TO	CTR TO CTR DISTANCE	POWER 1c-#2	POWER 1c-#8	CONTROL ⬡ 2c-#16	CONTROL ▽ 5c-#16	CONTROL 7c-#16	CONTROL 2c-#12	REMARKS
SOURCE ∅	PS/LT/CTRL	16.7	(180)						(60X3) INCLUDE IN COST OF PS
U.P.S.	CONTR.	69		273					3x91'
				14					
				287					INCLUDE 5% FOR SNAKING
				290					

(INCLUDED IN COST OF PS)

SIGNAL HEAD INDICATION

DETECTOR NUMBER	FACE NUMBER	INSTALL LED SOLID RED BALL
	32	1
	SUBTOTAL	1
	TOTAL	1

DETECTOR SCHEDULE

DETECTOR NUMBER	DETECTOR ZONE	TYPE: AUDIBLE PEDESTRIAN PUSH BUTTON	TYPE: SL DETECTION
61,62,10	E.B. T,T,LT		1
21,22,23	W.B. T,T,RT		1
31,32,33	N.B. LT,T,RT		1
	TOTAL		***

RETROREFLECTIVE BACKPLATES

	LENSES		
NOTE: LENSE NUMBERS FOR INFORMATION ONLY	3	4	5
	8	1	0
TOTAL	9		

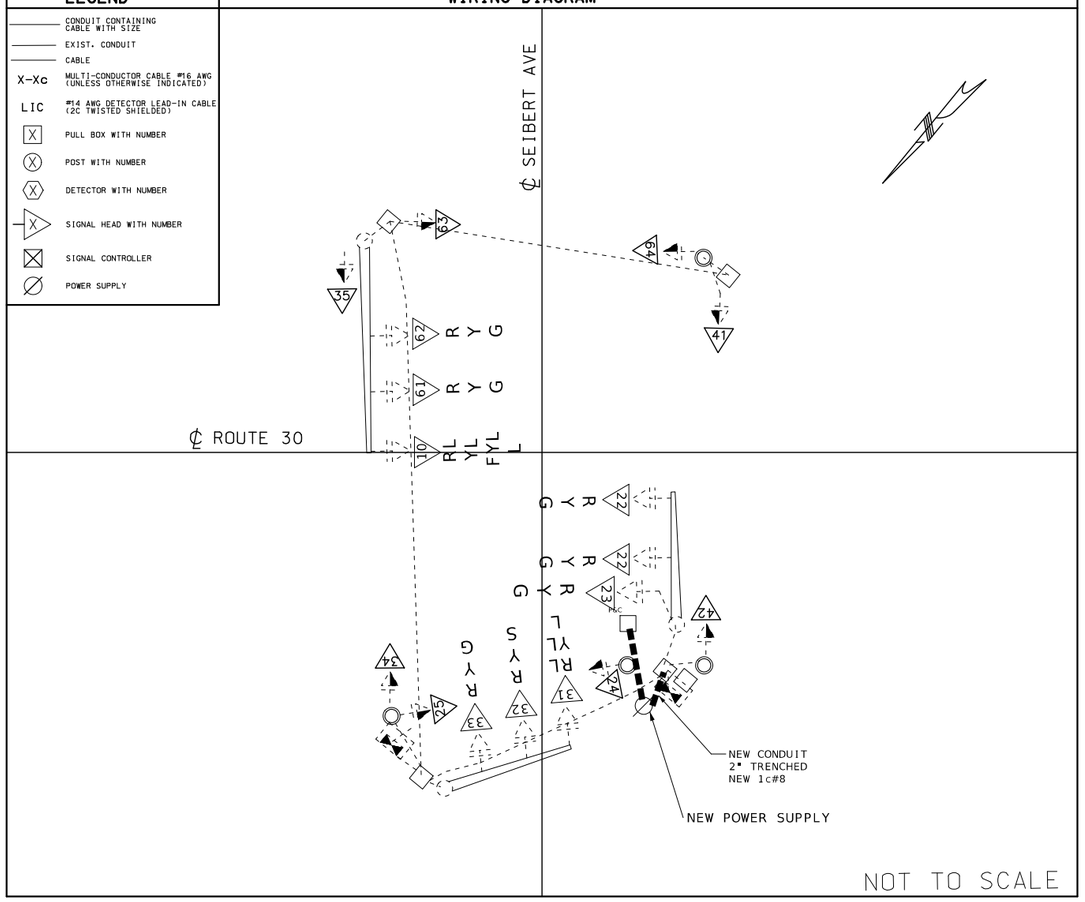
SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
1	R3-1	24x24	4	4	1
1	R3-2	24x24	4	4	1
1	R10-27a	30x36	7.5	7.5	1
1	D3-1	72x18	9	9	1
2	D3-1	78x18	9.75	19.5	2
			SUBTOTAL	44.00	6
			PAY TOTAL	44.00	6

LEGEND

- CONDUIT CONTAINING CABLE WITH SIZE
- EXIST. CONDUIT
- CABLE
- X-Xc MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
- LIC #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- DETECTOR WITH NUMBER
- SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SUPPLY

WIRING DIAGRAM



SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM

	DETECTION SYSTEM (EACH)	REMARKS
INTERSECTION TOTAL	1	SEE JOB SPECIAL PROVISIONS

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.
* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.
** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.
*** SEE SL DETECTION SYSTEM TABLE

POWER SUPPLY

LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	POWER SUPPLY ASSEMBLY: DUAL METER PAD MOUNTED COMBINATION SIGNAL/LIGHTING POWER SUPPLY W/UPS	CIRCUIT BREAKER TRIP RATING*: CONTROLLER AUXILIARY BREAKER	CONTROLLER CONT & SIGNAL LAMPS	POWER SUPPLY DISCONNECT MAIN BREAKER SIGNALS	POWER SUPPLY DISCONNECT MAIN BREAKER LIGHTING	LIGHTING CONTROL * (ON POWER SUPPLY): 120/240 VOLT DUAL METER COMBO PS & LTG	LIGHTING CONTROL * (ON POWER SUPPLY): MAIN BREAKER	SERVICE POLE: CONTRACT FURNISH	SERVICE POLE: UTILITY COMPANY
ROUTE 30 WB	15+37.4	49' RT	1	15 Amps	15 Amps	100 Amps	100 Amps	1	15 Amps	Cl. Ft.	
				Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

DISCLAIMER
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SEIBERT AVE @ ROUTE 30
INTERSECTION

D-37 COMBINED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08-22-2025 1:33:05 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/22/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 68
COUNTY: ST. LOUIS
JOB NO.: JSL0081
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

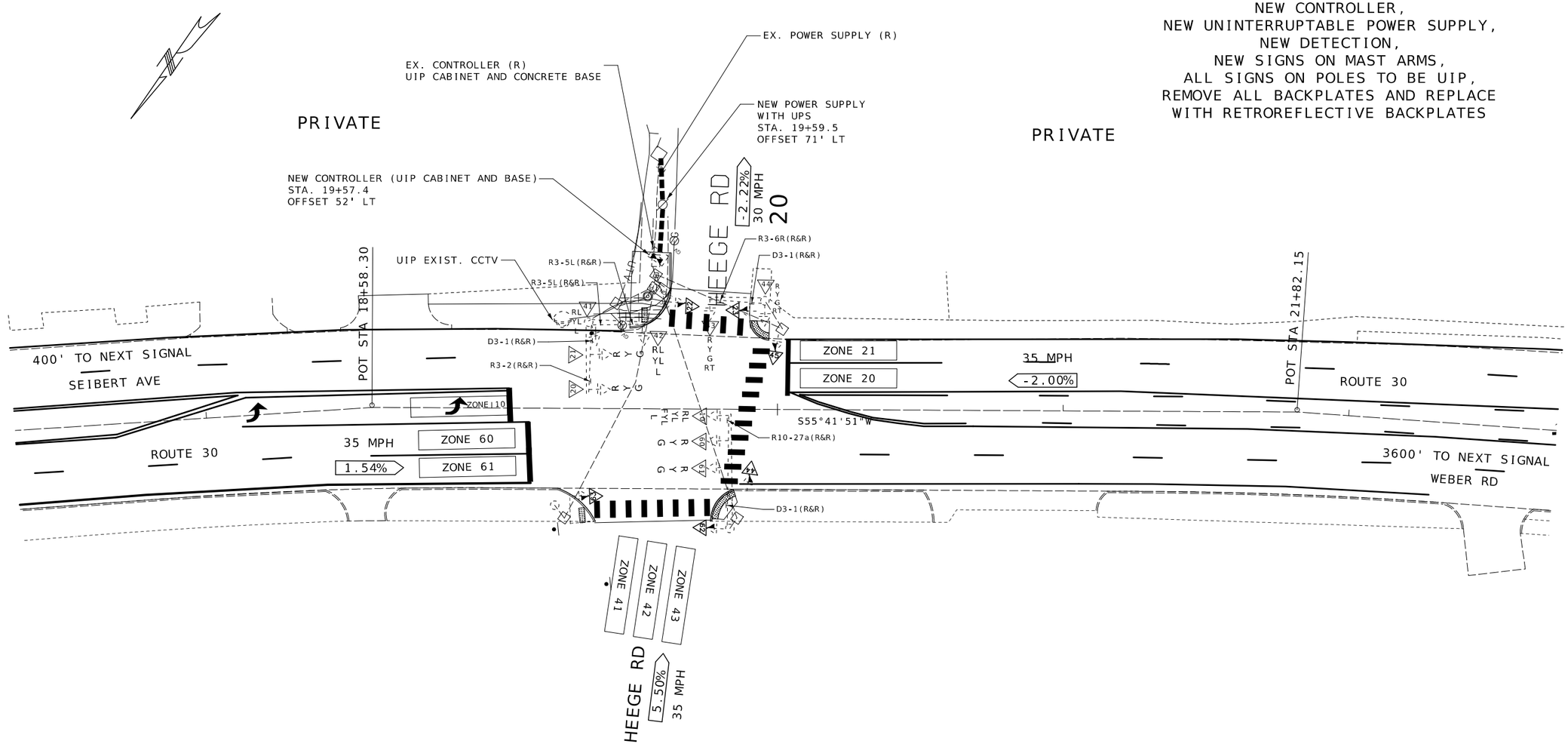
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNAL QUANTITY SHEET
SEIBERT AVE

TRAFFIC SIGNALS LEGEND			
CONTROLLER	CCTV CAMERA	UNINT. POWER SUPPLY	
POWER SUPPLY	VIDEO DETECTOR	NEW CONDUIT (PUSHED)	
SIGNAL HEAD (PEDESTRIAN)	PUSH BUTTON DETECTOR	EX. CONDUIT	
SIGNAL HEAD (STANDARD)	PREFORMED PULL BOX	MAST ARM	
		ZONE ##	DETECTION ZONE

SIGNAL UPGRADES:

NEW CONTROLLER,
NEW UNINTERRUPTABLE POWER SUPPLY,
NEW DETECTION,
NEW SIGNS ON MAST ARMS,
ALL SIGNS ON POLES TO BE UIP,
REMOVE ALL BACKPLATES AND REPLACE
WITH RETROREFLECTIVE BACKPLATES



SCALE
0 20 40 60

INTERSECTION
ROUTE 30 AT HEEGE RD

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 12:38:19 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	69

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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 PLAN SHEET
HEEGE RD

CONDUIT

FROM	TO	CTR TO CTR DISTANCE	TRENCHED 2"	TRENCHED 3"	PUSHED 3"
SOURCE	PS/LT/CTRL	17.8	(26)		
PS	CONTR.	19.8	28		
SUBTOTAL			28		
TOTAL			28		

CABLE

FROM	TO	CTR TO CTR DISTANCE	POWER 1c-#2	POWER 1c-#8	CONTROL 2c-#16	CONTROL 5c-#16	CONTROL 7c-#16	CONTROL 2c-#12	REMARKS
SOURCE ∅	PS/LT/CTRL	17.8	(183)						(61X3) INCLUDED IN COST OF PS
PS	CONTR.	19.8		108					3x36'
				5					INCLUDE 5% FOR SNAKING
				113					
				110					

(INCLUDED IN COST OF PS)

RETROREFLECTIVE BACKPLATES

	LENSES		
NOTE: LENSE NUMBERS FOR INFORMATION ONLY	3	4	5
	6	3	0
TOTAL	9		

DETECTOR SCHEDULE

DETECTOR NUMBER	DETECTOR ZONE	TYPE: AUDIBLE PEDESTRIAN PUSH BUTTON	TYPE: SL DETECTION
20,21	E.B. T,T		1
60,61,10	W.B. T/T/LT		1
41,42,43	S.B. LT,LT,T		1
	TOTAL		***

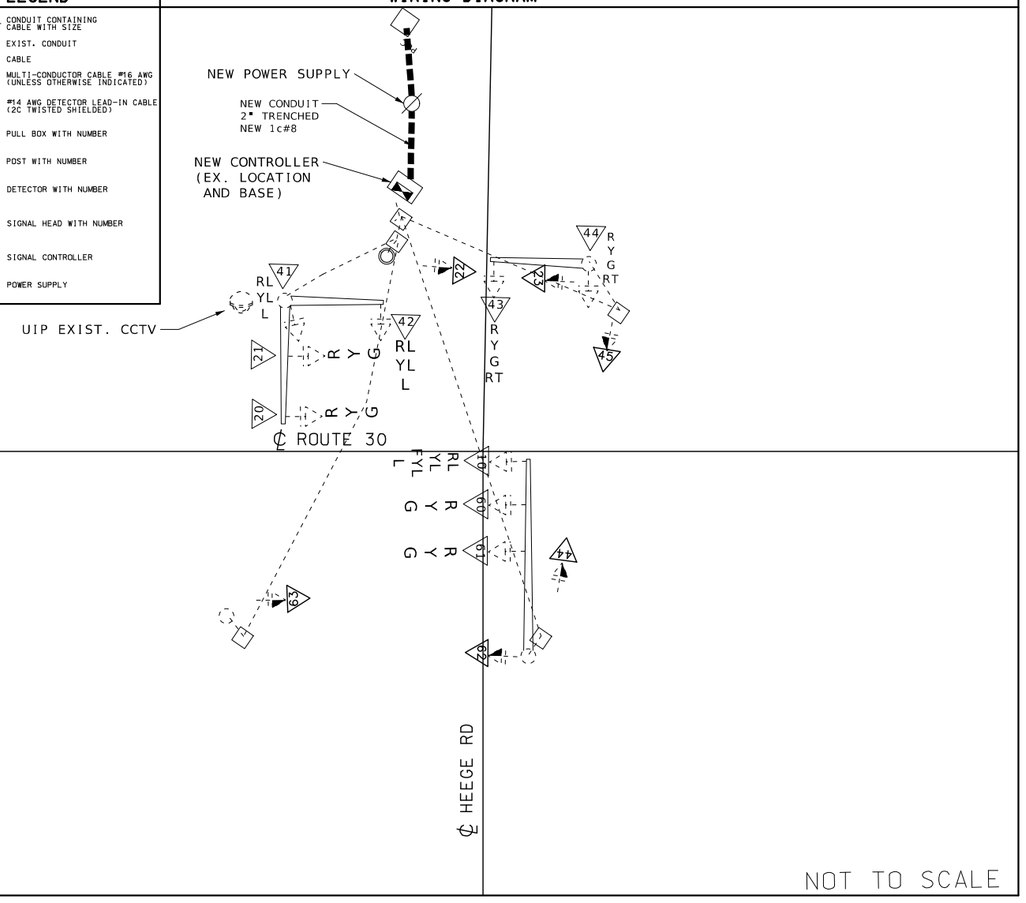
SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
1	R3-1	24x24	4	4	1
1	R3-2	24x24	4	4	1
2	R3-5L	30x36	7.5	15	2
1	R3-6R	30x36	7.5	7.5	1
1	R10-27a	30x36	7.5	7.5	1
1	D3-1	72x18	9	9	1
2	D3-1	78x18	9.75	19.5	2
			SUBTOTAL	66.5	9
			PAY TOTAL	66.5	9

LEGEND

- CONDUIT CONTAINING CABLE WITH SIZE
- EXIST. CONDUIT
- CABLE
- X-Xc — MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
- LIC — #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- DETECTOR WITH NUMBER
- SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SUPPLY

WIRING DIAGRAM



ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.
* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.
** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.
*** SEE SL DETECTION SYSTEM TABLE

POWER SUPPLY

LOCATION: APPROACH	STATION	OFFSET	POWER SUPPLY ASSEMBLY: DUAL METER PAD MOUNTED COMBINATION SIGNAL/LIGHTING POWER SUPPLY W/UPS	CIRCUIT BREAKER TRIP RATING*: CONTROLLER: AUXILIARY BREAKER	CONTROLLER: CONT & SIGNAL LAMPS	POWER SUPPLY DISCONNECT: MAIN BREAKER: SIGNALS	POWER SUPPLY DISCONNECT: MAIN BREAKER: LIGHTING	LIGHTING CONTROL * (ON POWER SUPPLY): 120/240 VOLT DUAL METER COMBO PS & LTG	LIGHTING CONTROL * (ON POWER SUPPLY): MAIN BREAKER	SERVICE POLE: CONTRACT FURNISH	SERVICE POLE: UTILITY COMPANY
ROUTE 30 EB	19+59.5	71' LT	1	15 Amps	15 Amps	100 Amps	100 Amps	1	15 Amps	Cl. Ft.	
				Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION: APPROACH	STATION	OFFSET	SYSTEM MASTER (CLOSED LOOP): NEMA	SYSTEM MASTER (CLOSED LOOP): 170	ACTUATED: NEMA	ACTUATED: 170	ON-OFF* SWITCH TYPE: I	ON-OFF* SWITCH TYPE: II	COORDINATION INTERFACE *: 12C/7C HARDWIRE (1): MASTER	COORDINATION INTERFACE *: 12C/7C HARDWIRE (1): LOCAL	TIME BASE	CLOSED LOOP: NEMA	CLOSED LOOP: 170	FIBER	TIME * CLOCK	NEMA CABINET TYPE *: E	NEMA CABINET TYPE *: EV	NEMA CABINET TYPE *: DOUBLE	170 CABINET TYPE *: 332	170 CABINET TYPE *: 336S	170 SOFTWARE *: BITRAN	170 SOFTWARE *: WAPITI
ROUTE 30 EB	19+57.4	52' LT			1									1								

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SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM

	DETECTION SYSTEM (EACH)	REMARKS
INTERSECTION TOTAL	1	SEE JOB SPECIAL PROVISIONS

HEEGE RD @ ROUTE 30
INTERSECTION

D-37 COMBINED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 8:43:56 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/21/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 70
COUNTY: ST. LOUIS
JOB NO.: JSL0081
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

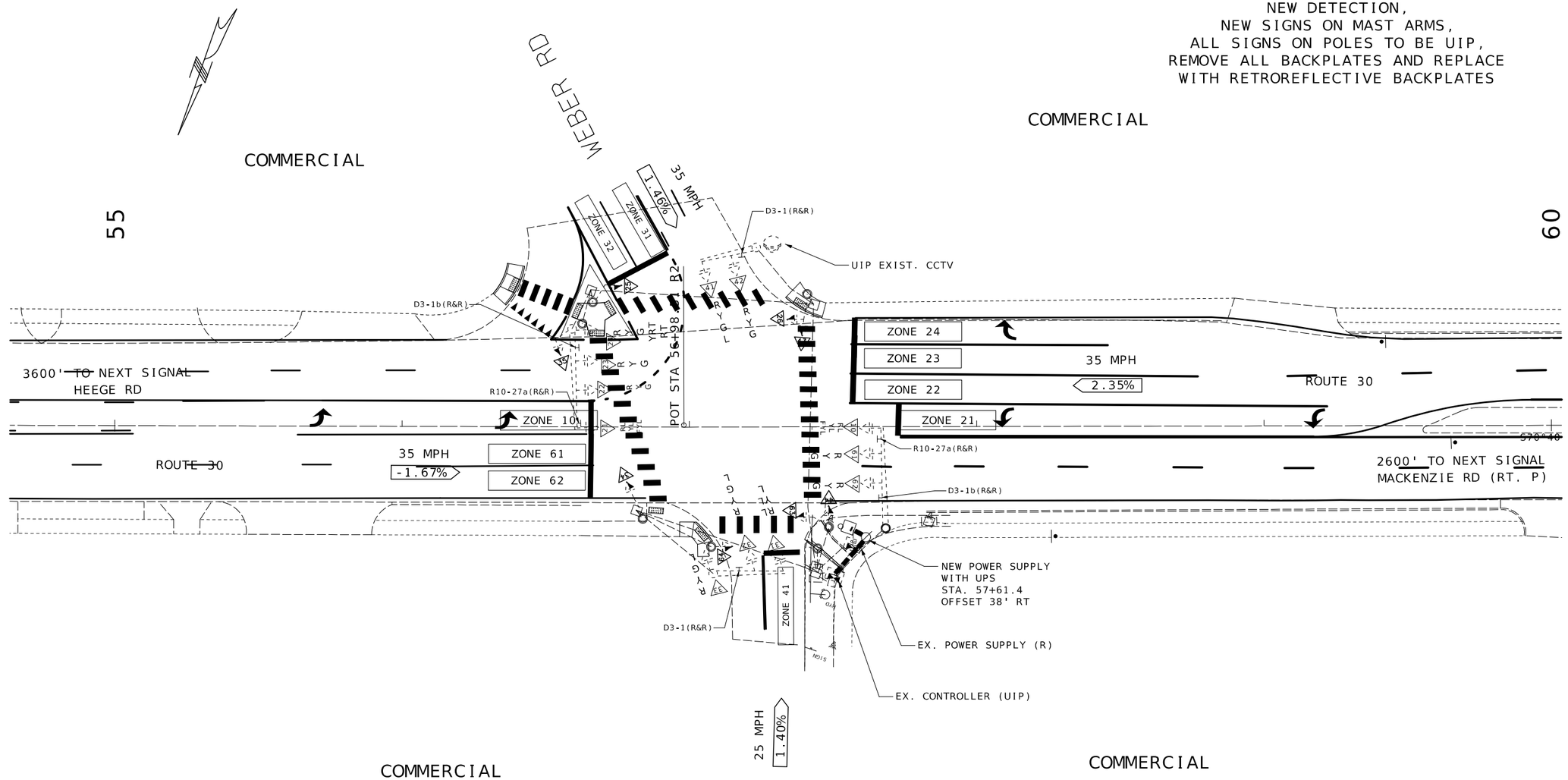
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNAL QUANTITY SHEET
HEEGE RD

TRAFFIC SIGNALS LEGEND			
CONTROLLER	CCTV CAMERA	UNINT. POWER SUPPLY	
POWER SUPPLY	VIDEO DETECTOR	NEW CONDUIT (PUSHED)	
SIGNAL HEAD (PEDESTRIAN)	PUSH BUTTON DETECTOR	EX. CONDUIT	
SIGNAL HEAD (STANDARD)	PREFORMED PULL BOX	MAST ARM	
		ZONE ##	DETECTION ZONE

SIGNAL UPGRADES:

NEW UNINTERRUPTABLE POWER SUPPLY,
NEW DETECTION,
NEW SIGNS ON MAST ARMS,
ALL SIGNS ON POLES TO BE UIP,
REMOVE ALL BACKPLATES AND REPLACE
WITH RETROREFLECTIVE BACKPLATES



SCALE
0 20 40 60

INTERSECTION
ROUTE 30 AT WEBER RD

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 3:37:08 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/30/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	71

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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 PLAN SHEET
WEBER RD

CONDUIT

FROM	TO	CTR TO CTR DISTANCE	TRENCHED 2"	TRENCHED 3"	PUSHED 3"
SOURCE	PS/LT/CTRL	7	(15)		
PS	CONTR.	17.1	26		
SUBTOTAL			26		
TOTAL			26		

CABLE

FROM	TO	CTR TO CTR DISTANCE	POWER 1c-#2	POWER 1c-#8	CONTROL ⬡ 2c-#16	CONTROL ▽ 5c-#16	CONTROL 7c-#16	CONTROL 2c-#12	REMARKS
SOURCE ∅	PS/LT/CTRL	7	(150)						(5OX3) INCLUDED IN COST OF PS
PS	CONTR.	17.1		102					3x34'
				5					INCLUDE 5% FOR SNAKING
SUBTOTAL				107					
TOTAL				110					

(INCLUDED IN COST OF PS)

RETROREFLECTIVE BACKPLATES

	LENSES		
NOTE: LENSE NUMBERS FOR INFORMATION ONLY	3	4	5
	7	4	1
TOTAL	12		

DETECTOR SCHEDULE

DETECTOR NUMBER	DETECTOR ZONE	TYPE: AUDIBLE PEDESTRIAN PUSH BUTTON	TYPE: SL DETECTION
21,22,23,24	E.B. LT,T,T,T		1
61,62,10	W.B. LT,T,T		1
41	S.B. LT/T/RT		1
31,32	N.B. LT,T		1
TOTAL			***

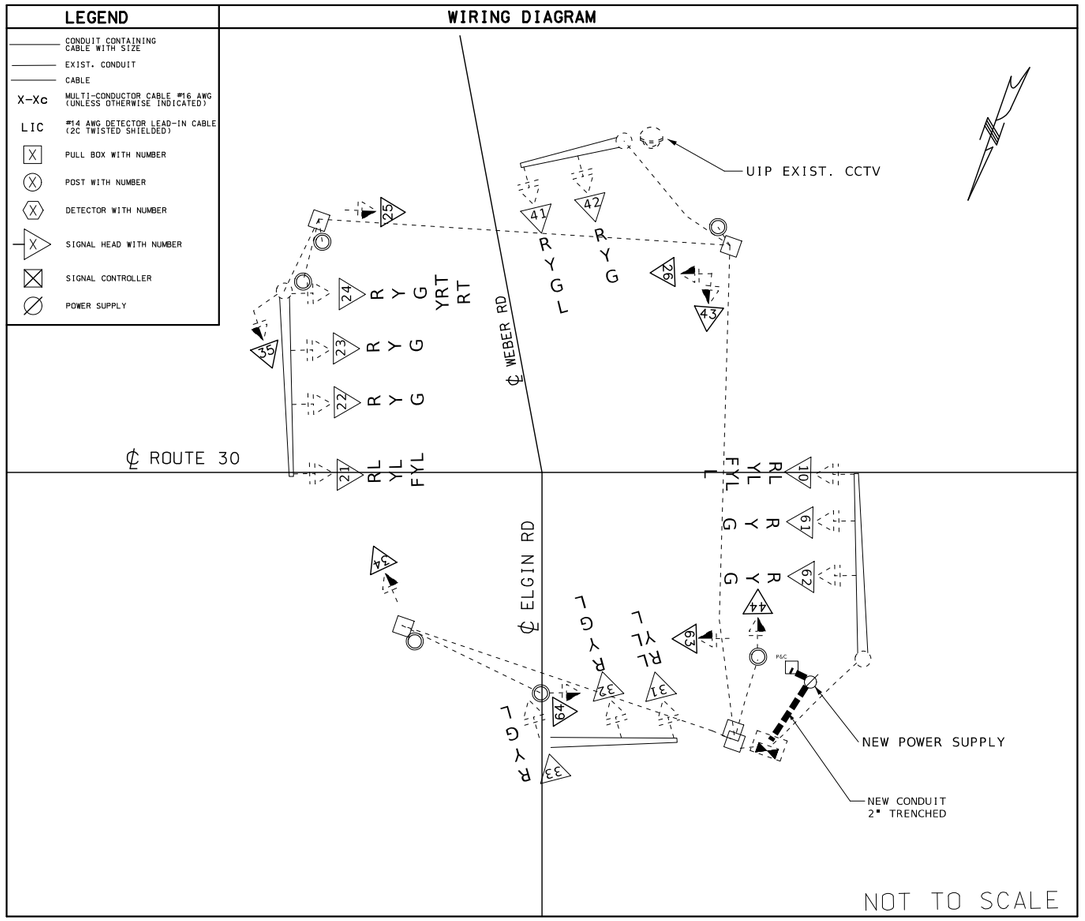
SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
2	R10-27a	30x36	7.5	15	2
2	D3-1	72x18	9	18	2
2	D3-1B	48x18	6	12	2
		SUBTOTAL		45.00	6
		PAY TOTAL		45.00	6

LEGEND

- CONDUIT CONTAINING CABLE WITH SIZE
- EXIST. CONDUIT
- CABLE
- X-Xc — MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
- LIC — #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- DETECTOR WITH NUMBER
- SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SUPPLY

WIRING DIAGRAM



SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM

	DETECTION SYSTEM (EACH)	REMARKS
INTERSECTION TOTAL	1	SEE JOB SPECIAL PROVISIONS

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.
* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.
** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.
*** SEE SL DETECTION SYSTEM TABLE

DISCLAIMER
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POWER SUPPLY

LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	POWER SUPPLY ASSEMBLY: DUAL METER PAD MOUNTED COMBINATION SIGNAL/LIGHTING POWER SUPPLY W/UPS	CIRCUIT BREAKER TRIP RATING*: CONTROLLER AUXILIARY BREAKER	CONT & SIGNAL LAMPS	POWER SUPPLY DISCONNECT MAIN BREAKER SIGNALS	LIGHTING	LIGHTING CONTROL * (ON POWER SUPPLY): 120/240 VOLT DUAL METER COMBO PS & LTG	MAIN BREAKER	SERVICE POLE: CONTRACT FURNISH	UTILITY COMPANY
ROUTE 30 WB	57+61.4	38' RT	1	15 Amps	15 Amps	100 Amps	100 Amps	1	15 Amps	Cl. Ft.	
				Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

WEBER RD @ ROUTE 30
INTERSECTION

D-37 COMBINED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08.22.2025 8:44:40 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED 8/21/2025
ROUTE 30 | STATE MO
DISTRICT SL | SHEET NO. 72
COUNTY ST. LOUIS
JOB NO. JSL0081
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

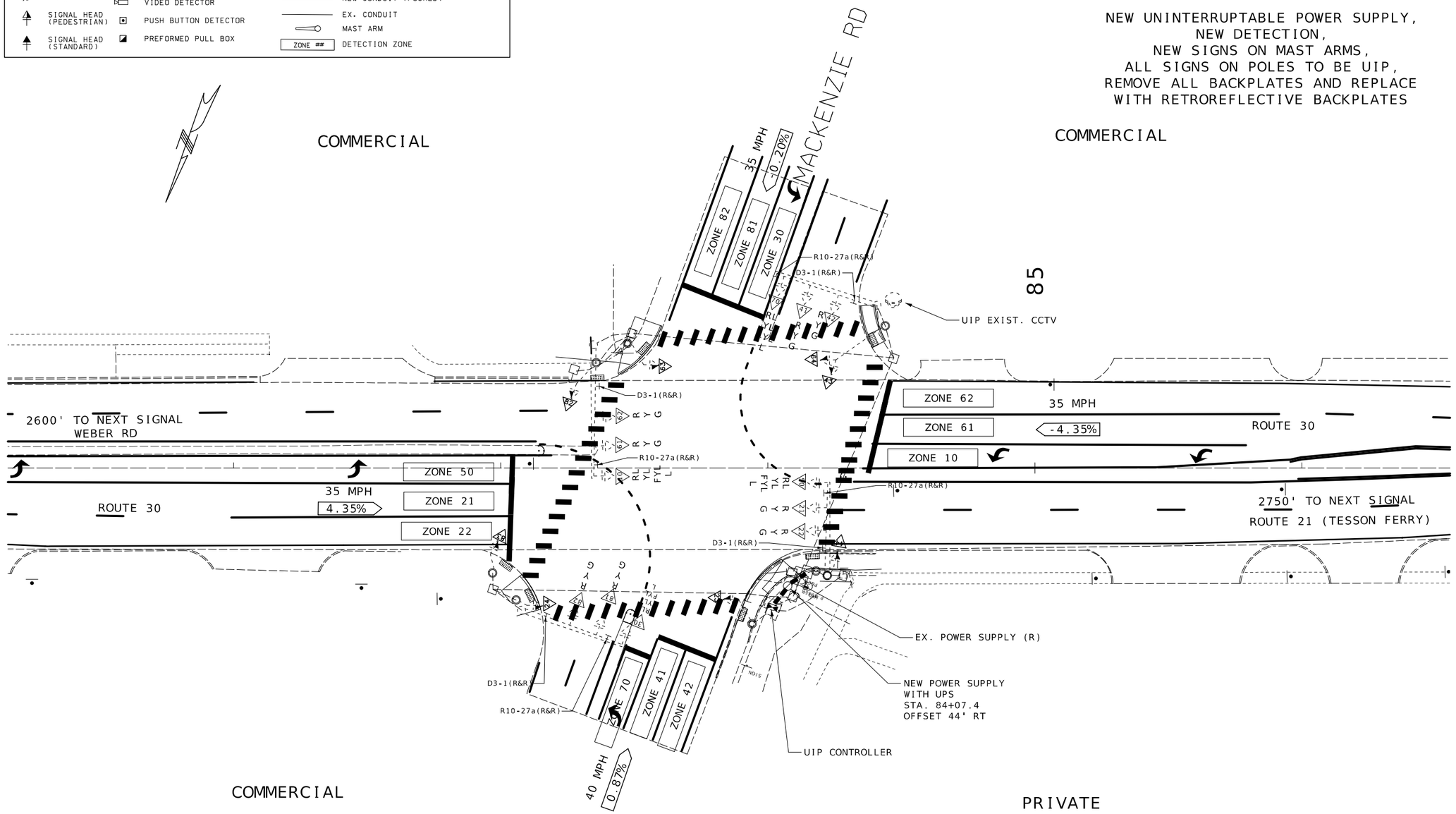
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNAL QUANTITY SHEET
WEBER RD

TRAFFIC SIGNALS LEGEND			
CONTROLLER	CCTV CAMERA	UNINT. POWER SUPPLY	
POWER SUPPLY	VIDEO DETECTOR	NEW CONDUIT (PUSHED)	
SIGNAL HEAD (PEDESTRIAN)	PUSH BUTTON DETECTOR	EX. CONDUIT	
SIGNAL HEAD (STANDARD)	PREFORMED PULL BOX	MAST ARM	
		ZONE ##	DETECTION ZONE

SIGNAL UPGRADES:

NEW UNINTERRUPTABLE POWER SUPPLY,
NEW DETECTION,
NEW SIGNS ON MAST ARMS,
ALL SIGNS ON POLES TO BE UIP,
REMOVE ALL BACKPLATES AND REPLACE
WITH RETROREFLECTIVE BACKPLATES



SCALE

0 20 40 60

INTERSECTION

ROUTE 30 AT MACKENZIE RD (RT. P)

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 12:39:19 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	73

COUNTY: ST. LOUIS

JOB NO.: JSL0081

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 PLAN SHEET
MACKENZIE RD (RT. P)

CONDUIT

FROM	TO	CTR TO CTR DISTANCE	TRENCHED 2"	TRENCHED 3"	PUSHED 3"
SOURCE	PS/LT/CTRL	12	(20)		
U.P.S.	CONTR.	8.9	8		
SUBTOTAL			8		
TOTAL			8		

CABLE

FROM	TO	CTR TO CTR DISTANCE	POWER 1c-#2	POWER 1c-#8	CONTROL ⬡ 2c-#16	CONTROL ▽ 5c-#16	CONTROL 7c-#16	CONTROL 2c-#12	REMARKS
SOURCE ∅	PS/LT/CTRL	12	(165)						(55X3) INCLUDED IN COST OF PS
U.P.S.	CONTR.	8.9		75					3x25'
				4					
SUBTOTAL				79					INCLUDE 5% FOR SNAKING
TOTAL				80					

(INCLUDED IN COST OF PS)

RETROREFLECTIVE BACKPLATES

	LENSES		
NOTE: LENSE NUMBERS FOR INFORMATION ONLY	3	4	5
	8	4	0
TOTAL	12		

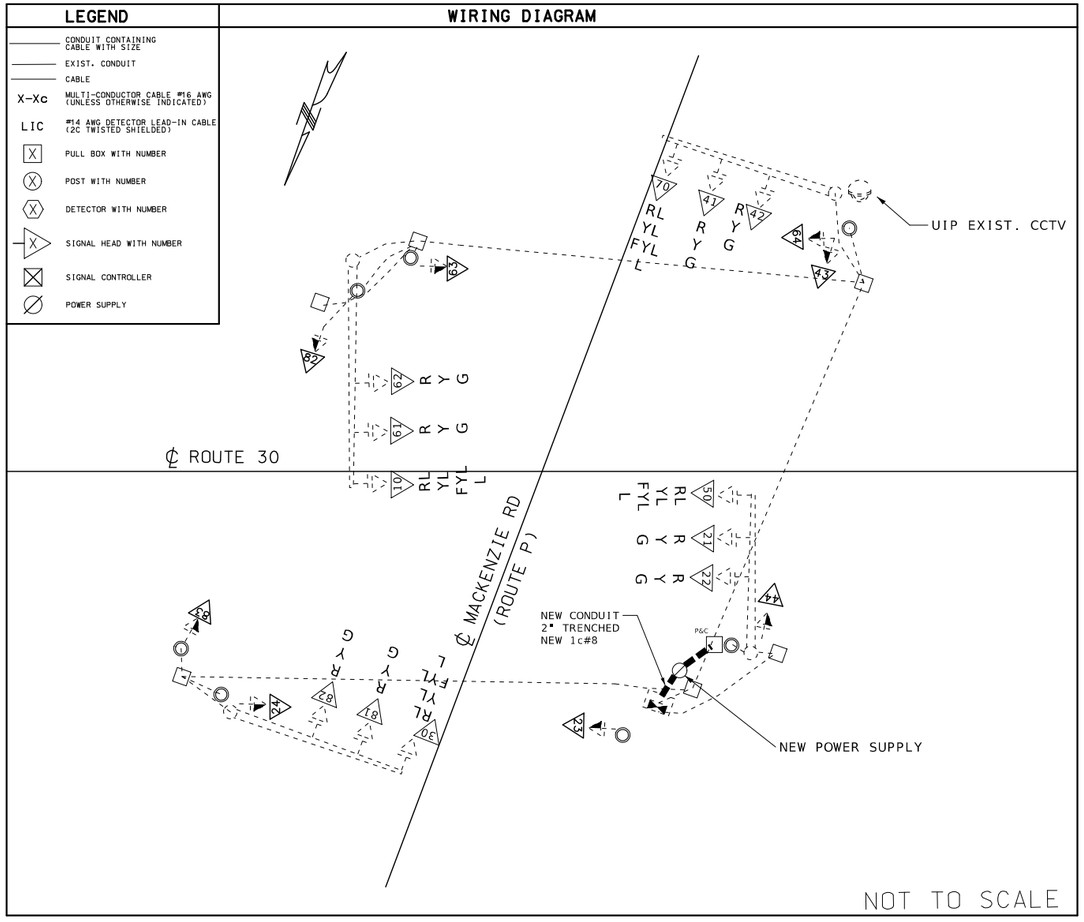
DETECTOR SCHEDULE

DETECTOR NUMBER	DETECTOR ZONE	TYPE: AUDIBLE PEDESTRIAN PUSH BUTTON	TYPE: SL DETECTION
61,62,10	E.B. LT,T,T		1
21,22,50	W.B. LT,T,T		1
41,42,70	S.B. LT,T,T		1
81,82,30	N.B. LT,T,T		1
TOTAL			***

LEGEND

- CONDUIT CONTAINING CABLE WITH SIZE
- EXIST. CONDUIT
- CABLE
- X-Xc — MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
- LIC — #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- DETECTOR WITH NUMBER
- SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SUPPLY

WIRING DIAGRAM



LOCATION / BASE / PULL BOX / POST

POST NUMBER	PULL BOX NUMBER	APPROACH	STATION	OFFSET	BASE TYPE C	BASE	CONCRETE** (CU. YDS.)	PULL BOX PREFORMED CLASS 2	PULL BOX PREFORMED CLASS 3	PULL BOX PREFORMED CLASS 5	PULL BOX CONCRETE STANDARD	DRAIN TYPE* I	DRAIN TYPE* II A	DRAIN TYPE* II B	DRAIN TYPE* II C	POST TOP MOUNT 8 FT.	POST TOP MOUNT 15 FT.	POST STANCHION
			CONTROLLER	(AS REQ'D)														
					SUBTOTAL													
					PAY TOTAL													

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
4	R10-27a	30x36	7.5	30	4
2	D3-1	90x18	11.25	22.5	2
2	D3-1	72x18	9	18	2
			SUBTOTAL	70.50	8
			PAY TOTAL	70.50	8

SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM

	DETECTION SYSTEM (EACH)	REMARKS
INTERSECTION TOTAL	1	SEE JOB SPECIAL PROVISIONS

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.
* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.
** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.
*** SEE SL DETECTION SYSTEM TABLE

POWER SUPPLY

LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	POWER SUPPLY ASSEMBLY: DUAL METER PAD MOUNTED COMBINATION SIGNAL/LIGHTING POWER SUPPLY W/UPS	CIRCUIT BREAKER TRIP RATING*: CONTROLLER AUXILIARY BREAKER	CONTROLLER CONT & SIGNAL LAMPS	POWER SUPPLY DISCONNECT MAIN BREAKER SIGNALS	POWER SUPPLY DISCONNECT MAIN BREAKER LIGHTING	LIGHTING CONTROL * (ON POWER SUPPLY): 120/240 VOLT DUAL METER COMBO PS & LTG	LIGHTING CONTROL * (ON POWER SUPPLY): MAIN BREAKER	SERVICE POLE: CONTRACT FURNISH	SERVICE POLE: UTILITY COMPANY
ROUTE 30 WB	87+07.4	44' RT	1	15 Amps	15 Amps	100 Amps	100 Amps	1	15 Amps	Cl. Ft.	
				Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

MACKENZIE RD @ ROUTE 30

INTERSECTION

D-37 COMBINED

DISCLAIMER
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STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:33:20 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED 9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	74

COUNTY: ST. LOUIS
JOB NO.: JSL0081
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION / DATE

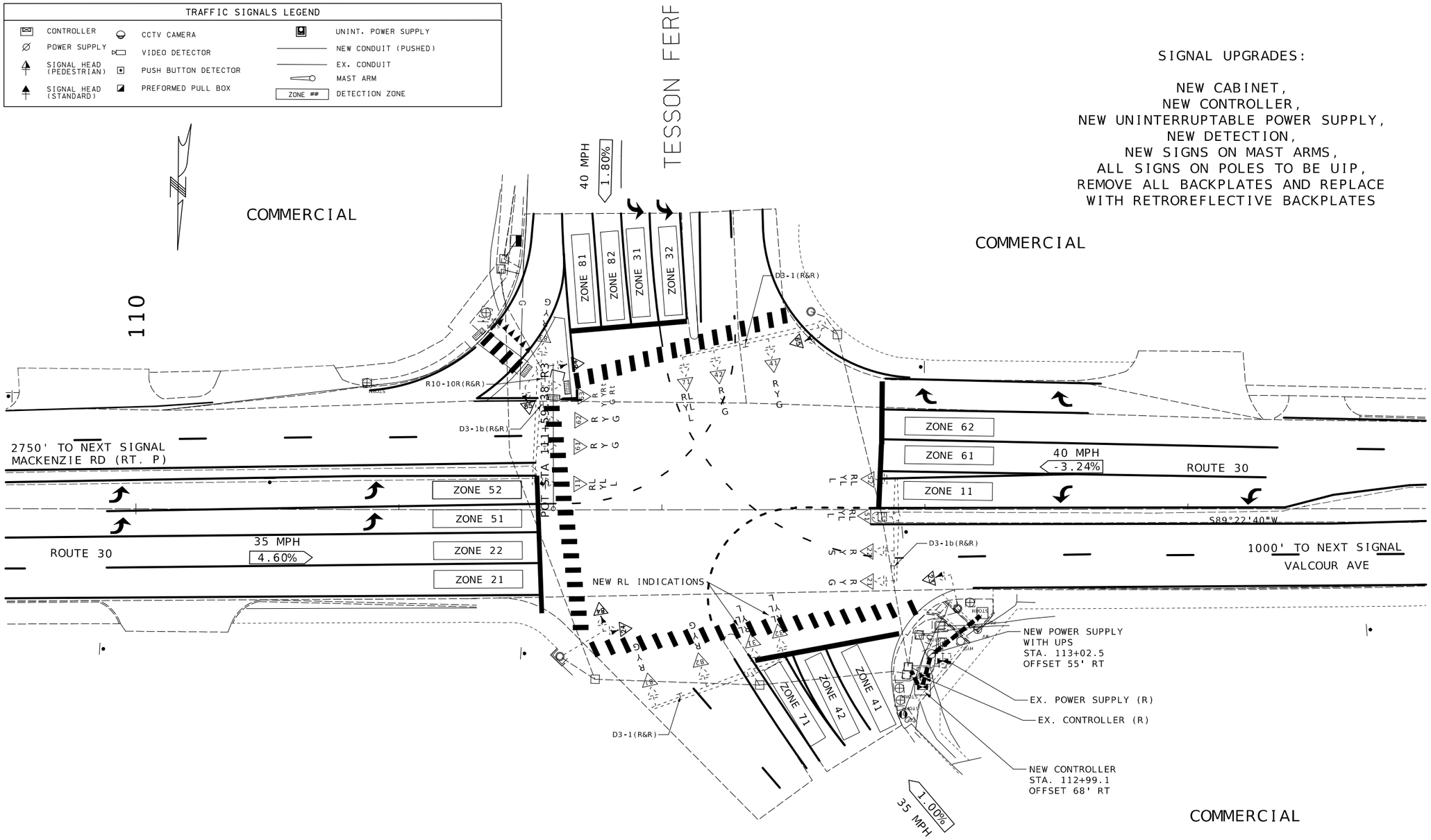
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNAL QUANTITY SHEET
MACKENZIE RD (RT. P)

TRAFFIC SIGNALS LEGEND			
CONTROLLER	CCTV CAMERA	UNINT. POWER SUPPLY	
POWER SUPPLY	VIDEO DETECTOR	NEW CONDUIT (PUSHED)	
SIGNAL HEAD (PEDESTRIAN)	PUSH BUTTON DETECTOR	EX. CONDUIT	
SIGNAL HEAD (STANDARD)	PREFORMED PULL BOX	MAST ARM	
		ZONE ##	DETECTION ZONE

SIGNAL UPGRADES:

NEW CABINET,
NEW CONTROLLER,
NEW UNINTERRUPTABLE POWER SUPPLY,
NEW DETECTION,
NEW SIGNS ON MASTER ARMS,
ALL SIGNS ON POLES TO BE UIP,
REMOVE ALL BACKPLATES AND REPLACE
WITH RETROREFLECTIVE BACKPLATES



SCALE
0 20 40 60

INTERSECTION
ROUTE 30 AT ROUTE 21

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 12:36:51 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	75

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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 PLAN SHEET
ROUTE 21

CONDUIT

FROM	TO	CTR TO CTR DISTANCE	TRENCHED 2"	TRENCHED 3"	PUSHED 3"
SOURCE	PS/LT/CTRL	24.6	(33)		
PS	CONTR.	14	22		
CONTR.	PB1	9.4		27	
SUBTOTAL			22	27	
TOTAL			22	27	

CABLE

FROM	TO	CTR TO CTR DISTANCE	POWER 1c–#2	POWER 1c–#8	CONTROL 2c–#16 ⬡	CONTROL 5c–#16 ▽	CONTROL 7c–#16	CONTROL 2c–#12	REMARKS
SOURCE ∅	PS/LT/CTRL	24.6	(204)						(68X3) INCLUDED IN COST OF PS
PS	CONTR.	14		90					3x30'
CONTR.	PB1	9.4							
				5					INCLUDE 5% FOR SNAKING
SUBTOTAL				95					
TOTAL				100					

(INCLUDED IN COST OF PS)

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
1	R10-10R	30x36	7.5	7.5	1
2	D3-1	72x18	9	18	2
2	D3-1b	72x18	9	18	2
			SUBTOTAL	43.50	5
			PAY TOTAL	43.50	5

DETECTOR SCHEDULE

DETECTOR NUMBER	DETECTOR ZONE	TYPE: AUDIBLE PEDESTRIAN PUSH BUTTON	TYPE: SL DETECTION
61,62,11	E.B. T,T,LT		1
21,22,51,52	W.B. T,T,LT,LT		1
41,42,71	S.B. T,T,LT		1
31,32,81,82	N.B. LT,LT,T,T		1
TOTAL			***

LOCATION / BASE / PULL BOX / POST

POST NUMBER	PULL BOX NUMBER	APPROACH	STATION	OFFSET	BASE TYPE	BASE CONCRETE** (CU. YDS.)	PULL BOX PREFORMED CLASS 2	PULL BOX PREFORMED CLASS 3	PULL BOX PREFORMED CLASS 5	PULL BOX CONCRETE STANDARD	PULL BOX DRAIN TYPE* I	PULL BOX DRAIN TYPE* II A	II B	II C	POST TOP MOUNT POST 8 FT.	POST TOP MOUNT POST 15 FT.	POST STANCHION
			CONTROLLER	(AS REQ'D)		1.97											
					SUBTOTAL	1.97											
					PAY TOTAL	2.0											

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.

*** SEE SL DETECTION SYSTEM TABLE

POWER SUPPLY

LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	POWER SUPPLY ASSEMBLY	CIRCUIT BREAKER TRIP RATING*: CONTROLLER: AUXILIARY BREAKER	CONTROLLER: CONT & SIGNAL LAMPS	POWER SUPPLY DISCONNECT: MAIN BREAKER: SIGNALS	POWER SUPPLY DISCONNECT: MAIN BREAKER: LIGHTING	LIGHTING CONTROL * (ON POWER SUPPLY): 120/240 VOLT DUAL METER COMBO PS & LTG	LIGHTING CONTROL * (ON POWER SUPPLY): MAIN BREAKER	SERVICE POLE: CONTRACT FURNISH	SERVICE POLE: UTILITY COMPANY
			DUAL METER PAD MOUNTED COMBINATION SIGNAL/LIGHTING POWER SUPPLY W/UPS								
ROUTE 30 WB	113+02.5	55' RT	1	15 Amps	15 Amps	100 Amps	100 Amps	1	15 Amps	Ci. Ft.	
				Amps	Amps	Amps	Amps		Amps	Ci. Ft.	

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Ø1 EB LEFT	Ø2 WB THRU	Ø3 NB LEFT	Ø4 SB THRU	Ø5 WB LEFT	Ø6 EB THRU	Ø7 SB LEFT	Ø8 NB THRU	N/U	OLB Ø3 EBR	N/U	N/U	PED Ø2	N/U	PED Ø6	PED Ø8

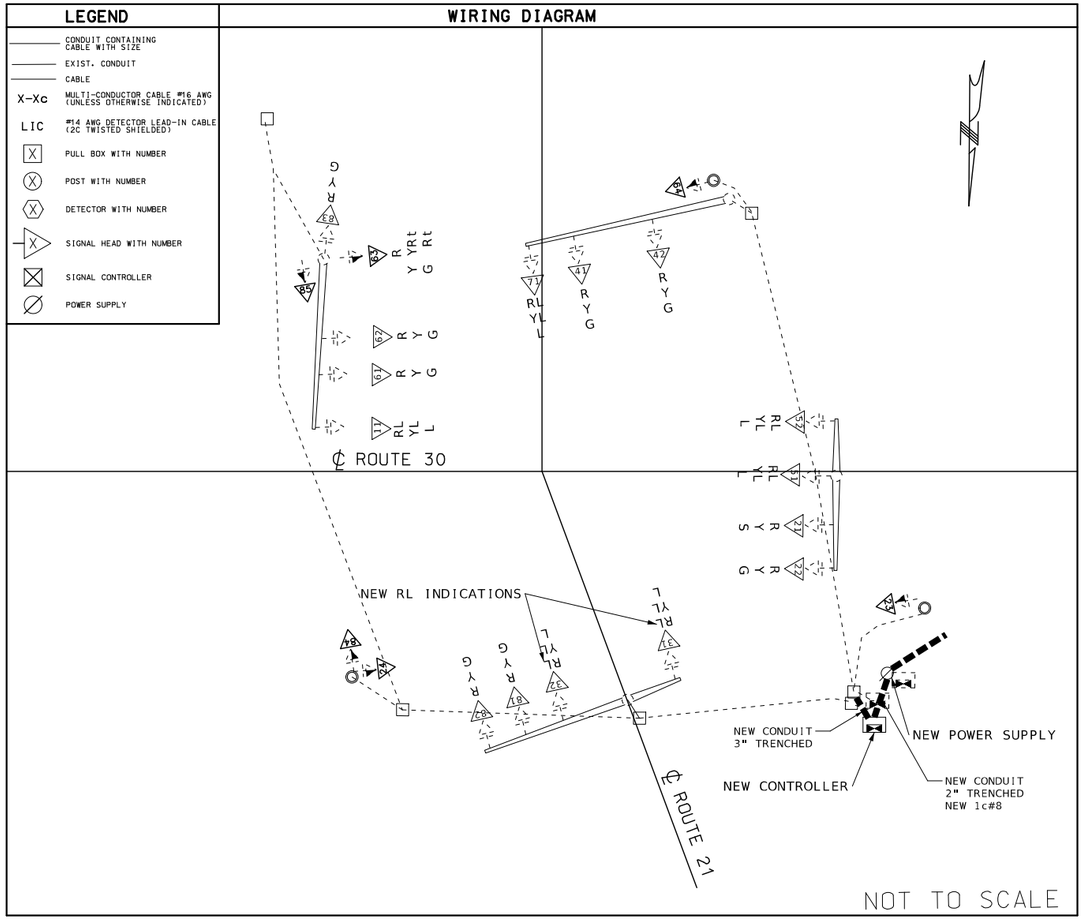
CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	SYSTEM MASTER (CLOSED LOOP): NEMA	SYSTEM MASTER (CLOSED LOOP): 170	ACTUATED: NEMA	ACTUATED: 170	ON-OFF* SWITCH: TYPE I	ON-OFF* SWITCH: TYPE II	COORDINATION INTERFACE *: 12C/7C HARDWIRE (1): MASTER	COORDINATION INTERFACE *: 12C/7C HARDWIRE (1): LOCAL	COORDINATION INTERFACE *: TIME BASE	COORDINATION INTERFACE *: CLOSED LOOP: NEMA	COORDINATION INTERFACE *: CLOSED LOOP: 170	COORDINATION INTERFACE *: FIBER	TIME * CLOCK	NEMA CABINET TYPE *: E	NEMA CABINET TYPE *: EV	NEMA CABINET TYPE *: DOUBLE	170 CABINET TYPE *: 332	170 CABINET TYPE *: 336S	170 SOFTWARE *: BITRAN	170 SOFTWARE *: WAPITI
ROUTE 30 WB	112+99.1	68' RT			1									1			1					

LEGEND

- CONDUIT CONTAINING CABLE WITH SIZE
- EXIST. CONDUIT
- CABLE
- X–Xc MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
- LIC #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- DETECTOR WITH NUMBER
- SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SUPPLY

WIRING DIAGRAM



SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM

	DETECTION SYSTEM (EACH)	REMARKS
INTERSECTION TOTAL	1	SEE JOB SPECIAL PROVISIONS

RETROREFLECTIVE BACKPLATES

NOTE: LENSE NUMBERS FOR INFORMATION ONLY	LENSES 3	4	5
	14	0	1
TOTAL	15		

DISCLAIMER

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ROUTE 21 @ ROUTE 30

INTERSECTION

D-37 COMBINED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:33:37 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED 9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	76

COUNTY: ST. LOUIS

JOB NO.: JSL0081

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 QUANTITY SHEET
ROUTE 21

SIGNAL UPGRADES:
FULL REBUILD
NEW SIGNS ON MAST ARMS WITH RETROFLECTIVE BACKPLATES

ALL SIGNS ON POLES TO BE UIP

COMMERCIAL

COMMERCIAL

35MPH
VALCOUR AVE

950' NEXT SIGNAL
ROCK HILL RD/ALICETON AVE

EXIST. ROW

EX. RAISED
ISLAND

REMOVE PULLBOX

UT

MO 30 ℄

9'

40MPH

990' NEXT SIGNAL
ROUTE 21/ROCK HILL RD

EXIST. ROW

EXIST. ROW

Excepting 10'

2050' NEXT SIGNAL
GRANT ROAD

40MPH

REMOVE SIDEWALK,
TRUNCATED DOMES,
AND RAMP

REMOVE ISLAND,
SIGNAL POLE, &
PULL BOX

EX. RAISED
ISLAND

COMMERCIAL

120

125

SCALE
0 20 40 60

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 1:34:32 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/22/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	77

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.
X

PROJECT NO.
X

BRIDGE NO.
X

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

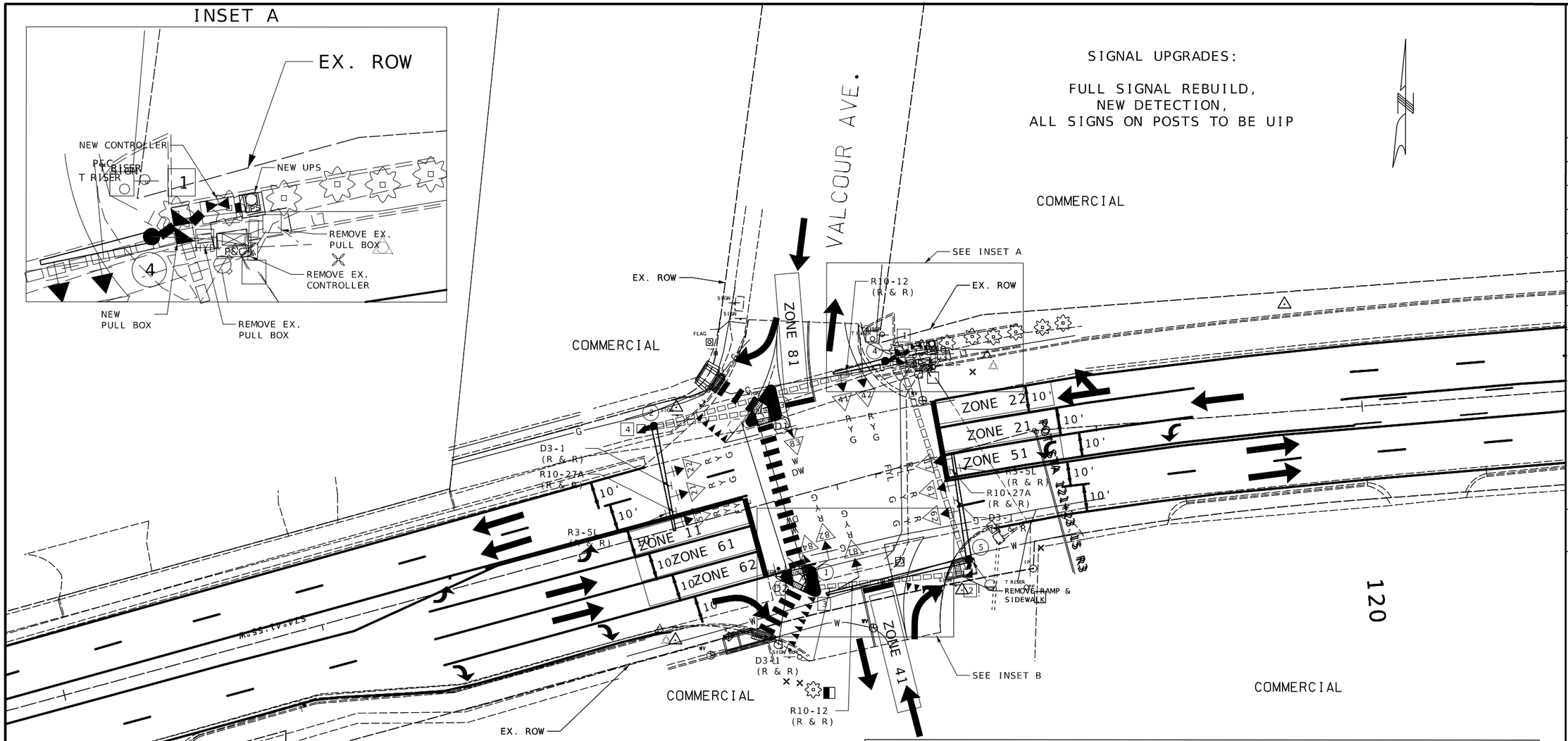
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EXISTING SIGNAL LAYOUT
ROUTE 30 @
VALCOUR AVENUE

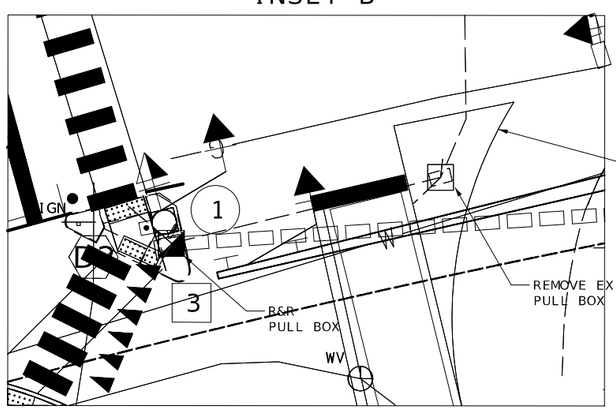
INSET A

SIGNAL UPGRADES:

FULL SIGNAL REBUILD,
NEW DETECTION,
ALL SIGNS ON POSTS TO BE UIP



INSET B



SCALE
0 20 40 60

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

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 3:37:35 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/30/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	78

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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)

PROPOSED SIGNAL LAYOUT
ROUTE 30 @
VALCOUR AVENUE

EFFECTIVE: 07-01-2018

| POST NUMBER | PULL BOX NUMBER | LOCATION APPROACH | LOCATION STATION | LOCATION OFFSET | BASE A 9 | BASE A 9.5 | BASE A 10 | BASE A 10.5 | BASE A 11 | BASE A 12 | BASE F 9 | BASE F 9.5 | BASE F 10 | BASE F 10.5 | BASE F 11 | BASE F 12 | BASE C | BASE *** CONCRETE** (CU. YDS.) | PULL BOX PREFORMED CLASS 1 | PULL BOX PREFORMED CLASS 2 | PULL BOX PREFORMED CLASS 3 | PULL BOX PREFORMED CLASS 5 | PULL BOX CONCRETE STANDARD | PULL BOX CONCRETE DOUBLE, TYPE A | PULL BOX CONCRETE DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II A | DRAIN TYPE* II B | DRAIN TYPE* II C | POST TOP MOUNT POST 8 FT. | POST TOP MOUNT POST 15 FT. | POST TYPE C & CL ARM LENGTH 20' | POST TYPE C & CL ARM LENGTH 40' | POST TYPE C & CL ARM LENGTH A | POST TYPE C & CL ARM LENGTH A | POST TYPE C & CL SIGNAL SPACING B | POST TYPE C & CL SIGNAL SPACING C | POST TYPE C & CL SIGNAL SPACING D | POST TYPE C & CL SIGNAL SPACING D' | POST TYPE C & CL SIGN SPACING B | POST TYPE C & CL SIGN SPACING C | POST TYPE C & CL SIGN SPACING D | POST TYPE C & CL SIGN SPACING D' | POST TYPE B & BL ARM LENGTH 40' | POST TYPE B & BL ARM LENGTH 55' | POST TYPE B & BL ARM LENGTH E | POST TYPE B & BL ARM LENGTH K | POST TYPE B & BL ARM LENGTH E | POST TYPE B & BL ARM LENGTH K | POST TYPE B & BL LEFT ARM E SIGNAL SPACING F | POST TYPE B & BL LEFT ARM E SIGNAL SPACING G | POST TYPE B & BL LEFT ARM E SIGNAL SPACING H | POST TYPE B & BL LEFT ARM E SIGNAL SPACING H' | POST TYPE B & BL LEFT ARM E SIGN SPACING F | POST TYPE B & BL LEFT ARM E SIGN SPACING G | POST TYPE B & BL LEFT ARM E SIGN SPACING H | POST TYPE B & BL LEFT ARM E SIGN SPACING H' | POST TYPE B & BL RIGHT ARM K SIGNAL SPACING L | POST TYPE B & BL RIGHT ARM K SIGNAL SPACING M | POST TYPE B & BL RIGHT ARM K SIGNAL SPACING N | POST TYPE B & BL RIGHT ARM K SIGNAL SPACING N' | POST TYPE B & BL RIGHT ARM K SIGN SPACING L | POST TYPE B & BL RIGHT ARM K SIGN SPACING M | POST TYPE B & BL RIGHT ARM K SIGN SPACING N | POST TYPE B & BL RIGHT ARM K SIGN SPACING N' | POST INCLUDED ANGLE | LUMINAIRE BRACKET ARM* 4 FT. | LUMINAIRE BRACKET ARM* 6 FT. | LUMINAIRE BRACKET ARM* 8 FT. | LUMINAIRE BRACKET ARM* 10 FT. | LUMINAIRE BRACKET ARM* 12 FT. | LUMINAIRE BRACKET ARM* 15 FT. |
|---|---|---

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
∅	PS	12'						(20')									INCLUDED IN COST OF PS
PS	HH	6'		14'													
HH	1	7'			20'												2-3" CONDUITS
1	4	6'			9'												
1	4	101'							99'								
4	2	5'			3'												
4	3	49'							50'								
1	2	86'							89'								
2	5	5'			8'												
2	3	58'							56'								
3	1	4'							5'								
SUBTOTALS				14'	40'			(20')	299'								
TOTALS				14'	40'			(20')	299'								

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		CAT 5 EATHERNET CABLE	REMARKS
			1c-#2	1c-#8	2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE		
∅	PS	12'	(165')												INCLUDED IN PS COST (x3)
PS	HH	6'		66'											3-1c#8
HH	4	12'					58'								SIGNAL HEAD 41
HH	4	12'					50'								SIGNAL HEAD 42
HH	3	157'				100'									PEDESTRIAN HEAD 23
HH	3	157'			99'										PUSH BUTTON 24
HH	2	106'					165'								SIGNAL HEAD 22
HH	2	106'					174'								SIGNAL HEAD 21
HH	2	106'					185'								SIGNAL HEAD 51
HH	5	98'					176'								SIGNAL HEAD 11
HH	5	98'					166'								SIGNAL HEAD 61
HH	5	98'					157'								SIGNAL HEAD 62
HH	5	98'					189'								SIGNAL HEAD 81
HH	5	98'												(148')	CCTV (SEE ITS QTYs)
HH	1	151'					190'								SIGNAL HEAD 82
HH	1	151'				187'									PEDESTRIAN HEAD 24
HH	1	151'			186'										PUSH BUTTON 23
SUBTOTALS			(173')	69'	299'	301'	1594'							(155')	5% ADDED FOR SNAKING
TOTALS			(170')	70'	300'	300'	1590'							(160')	ROUNDED TO NEAR 10'

INTERSECTION MO 30 @ VALCOUR AVE

D-37B

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 12:45:45 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	79B

COUNTY: ST. LOUIS
JOB NO.: JSL0081
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
ROUTE 30 @
VALCOUR AVENUE

EFFECTIVE: 04-01-2018

NETWORK CONNECTED SIGNAL MONITOR

TOTAL = 1 EACH

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY	CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
				CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DUAL METER PAD MOUNTED COMBINATION SIGNAL/LIGHTING POWER SUPPLY/LIGHTING CONTROLLER W/UPS	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
						SIGNALS	LIGHTING				
RTE 30	121+51.79	40.50' RT	1	15 Amps	15 Amps	100 Amps	100 Amps	1	15 Amps	Cl. Ft.	AMEREN
				Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH TYPE		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
									12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
RTE 30	121+57.75	41.16' RT			1									1			1					

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1		ST. LOUIS DETECTION						
	2								

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = 5 (2)

DETECTOR SCHEDULE **

DETECTOR NUMBER	APPROACH	TYPE				
		PUSH BUTTON	INDUCTION LOOP (2)			SEE JSP
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
11,61,62	WB RTE 30					1
21,22,51	EB RTE 30					1
41	SB VALCOUR AVE					1
81	NB VALCOUR AVE					1
D1	WEST SIDE - SB PED	1				
D2	WEST SIDE - NB PED	1				
						**
TOTAL		2				

**FOR INFORMATION ONLY

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

*** USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
1	D3-1	42 X 12	3.5	3.5	1
1	D3-1	72 X 18	9.0	9.0	1
2	D3-1	84 X 18	10.5	21.0	2
UIP	R10-3eL	9 X 15	0.9		1
UIP	R10-3eR	9 X 15	0.9		1
	R10-11A	24 X 30	5.0		
2	R10-12	30 X 36	7.5	15	2
	R10-13	36 X 24	6.0		
2	R10-27A	30 X 36	7.5	15	2
			SUBTOTAL	69	10
			TOTAL	69	10

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Ø1 EBL	Ø2 WB	N/U	Ø4 NB	Ø5 WBL	Ø6 EB	N/U	Ø8 SB	OLA FYA Ø1	N/U	OLA FYA Ø5	N/U	N/U	N/U	N/U	Ø8 PED

RTE 30 @ VALCOUR AVE

INTERSECTION

D-37C

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:33:46 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/22/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	80

COUNTY: ST. LOUIS

JOB NO.: JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

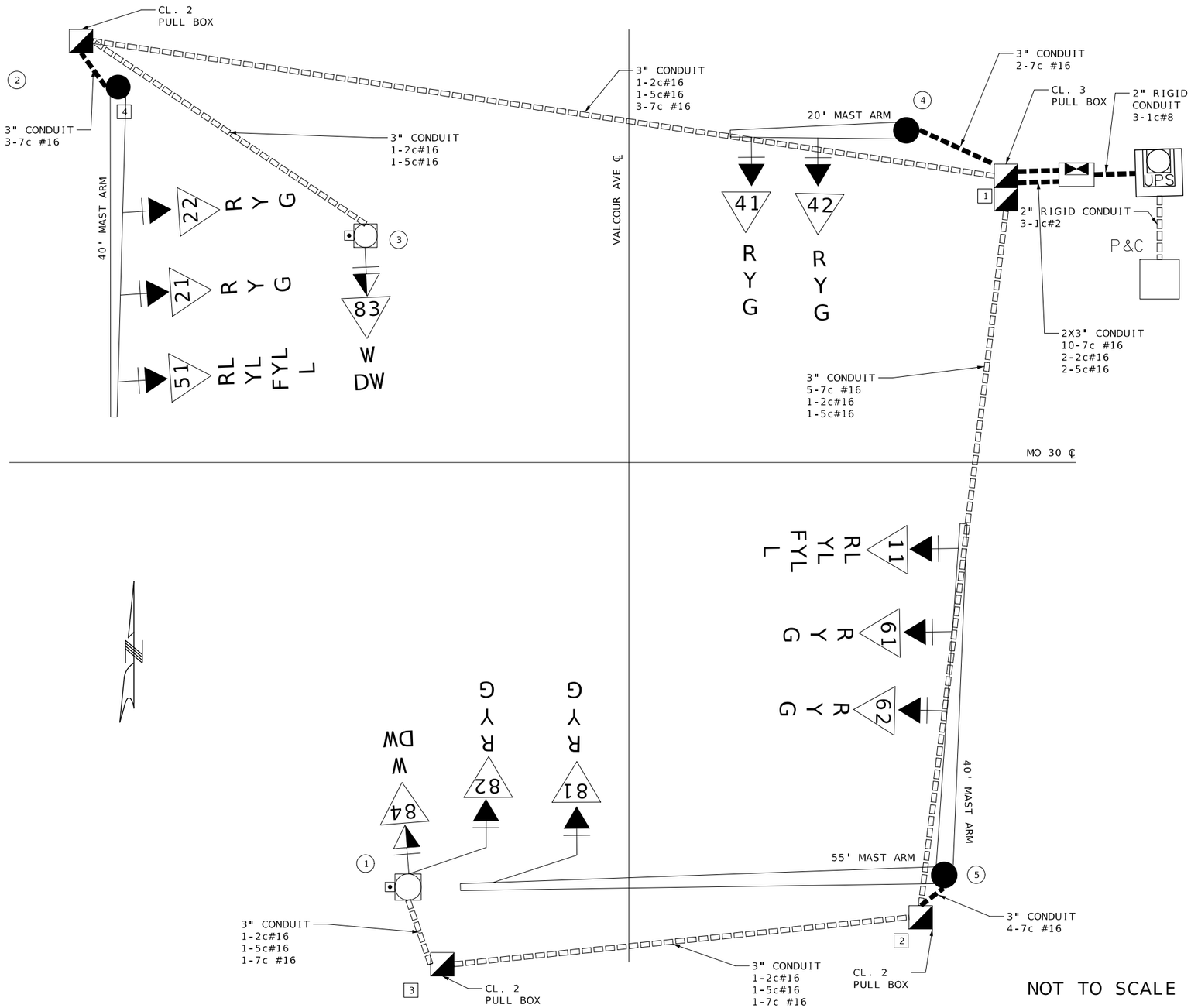
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SIGNAL SHEET
ROUTE 30 @
VALCOUR AVENUE

EFFECTIVE: 12-01-2017

WIRING DIAGRAM



LEGEND

3"	CONDUIT CONTAINING CABLE WITH SIZE
	CABLE
X-Xc	MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
LIC	#14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
X	PULL BOX WITH NUMBER
X	POST WITH NUMBER
X	POST WITH MAST ARM
X	POST WITH MAST ARM AND LUMINAIRE
X	DETECTOR WITH NUMBER
X	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SOURCE
	LIGHTING CONTROLLER
	SIGNAL CONTROLLER
UPS	UPS

RTE 30 @ VALCOUR AVE

INTERSECTION

D-37D

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 1:39:16 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/22/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	81

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

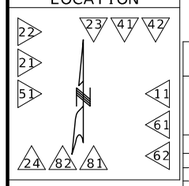
DESCRIPTION	DATE

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

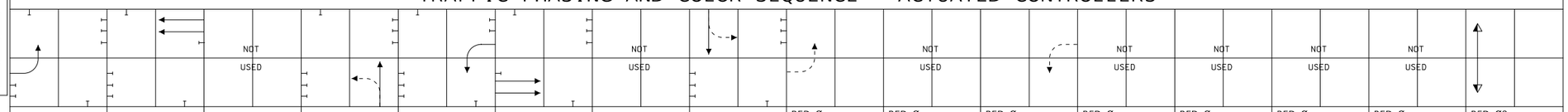
SIGNAL SHEET
ROUTE 30 @
VALCOUR AVENUE

EFFECTIVE: 12-01-2017

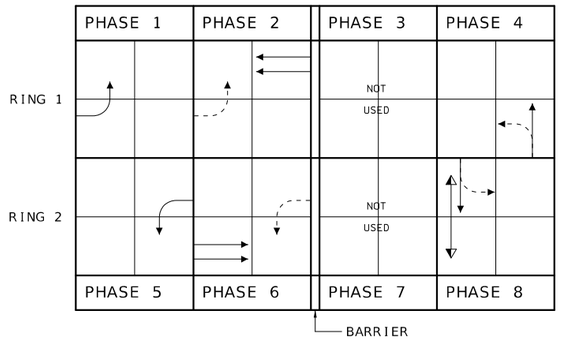
SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø OVERLAP A	PED Ø OVERLAP	PED Ø OVERLAP C	PED Ø OVERLAP	PED Ø OVERLAP	PED Ø OVERLAP	PED Ø OVERLAP	PED Ø8 OVERLAP	
FACE NUMBERS	11	21 22		41 42	51	61 62		81 82	11		51					23 24	FACE NUMBERS
SIGNAL INDICATIONS R		R R		R		R R		R								DW	R
SIGNAL INDICATIONS Y		Y Y		Y		Y Y		Y								FDW	Y
SIGNAL INDICATIONS FYL									FYL		FYL						FYL
SIGNAL INDICATIONS G	L	G G		G	L	G G		G								W	G
DETECTOR ASSIGNMENTS	11	21 22		41	51	61 62		81									DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)																D1 D2	
OVERLAP PARENT PHASES									Ø 2		Ø 6						



RING STRUCTURE

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED

FDW — FLASHING DON'T WALK
W — WALK
DW — DON'T WALK
R/W — RIGHT OF WAY INTERVAL
YRt — YELLOW RIGHT ARROW
RT. — GREEN RIGHT ARROW
LY -YL — YELLOW LEFT ARROW
L — GREEN LEFT ARROW
S — GREEN STRAIGHT AHEAD ARROW
G — CIRCULAR GREEN
Y — CIRCULAR YELLOW
R — CIRCULAR RED
RL — RED LEFT ARROW
Ø — TRAFFIC PHASE
AO — ALL OTHERS
FR — FLASHING RED
FY — FLASHING CIRCULAR YELLOW
FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
ALL	FR
	FY

CONTROLLER TYPE	NEMA 8Ø

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF RTE 30

WITH VALCOUR AVE

RTE 30 @ VALCOUR AVE

D-38A

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 1:39:25 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/22/2025
ROUTE: 30
STATE: MO
DISTRICT: SL
SHEET NO.: 82
COUNTY: ST. LOUIS
JOB NO.: JSL0081
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

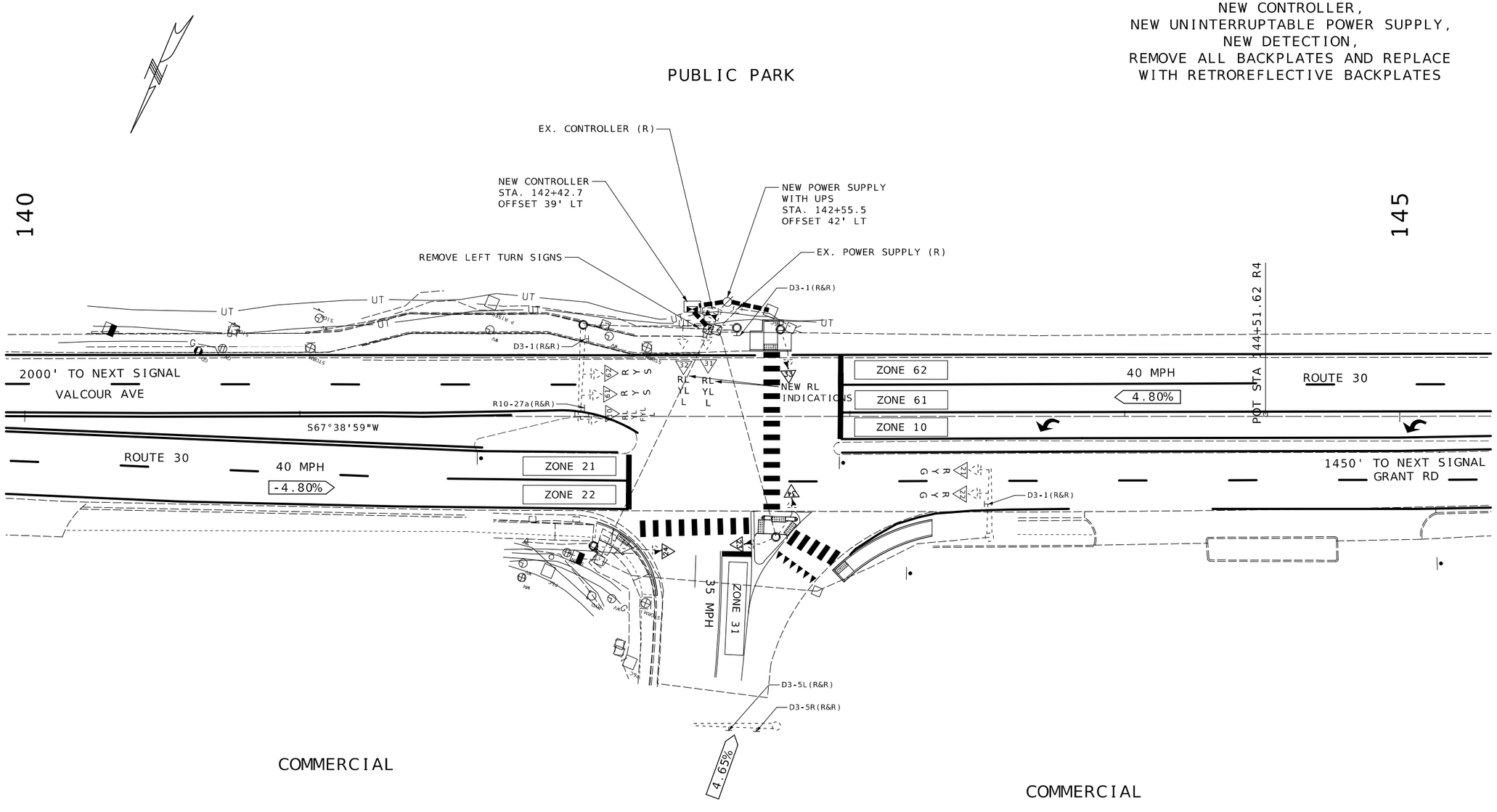
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNAL SHEET
ROUTE 30 @
VALCOUR AVENUE

TRAFFIC SIGNALS LEGEND			
CONTROLLER	CCTV CAMERA	UNINT. POWER SUPPLY	
POWER SUPPLY	VIDEO DETECTOR	NEW CONDUIT (PUSHED)	
SIGNAL HEAD (PEDESTRIAN)	PUSH BUTTON DETECTOR	EX. CONDUIT	
SIGNAL HEAD (STANDARD)	PREFORMED PULL BOX	MAST ARM	
		ZONE ##	DETECTION ZONE

SIGNAL UPGRADES:

UPDATE LEFT TURN SIGNAL/SIGNAGE,
NEW CABINET,
NEW CONTROLLER,
NEW UNINTERRUPTABLE POWER SUPPLY,
NEW DETECTION,
REMOVE ALL BACKPLATES AND REPLACE
WITH RETROREFLECTIVE BACKPLATES



INTERSECTION

ROUTE 30 AT LACLEDE STATION RD

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 12:43:37 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED	9/25/2025
ROUTE	30
STATE	MO
DISTRICT	SL
SHEET NO.	83
COUNTY	ST. LOUIS
JOB NO.	JSL0081
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 PLAN SHEET
LACLEDE STATION RD

CONDUIT

FROM	TO	CTR TO CTR DISTANCE	TRENCHED 2"	TRENCHED 3"	PUSHED 3"
SOURCE	PS/LT/CTRL	16	(24)		
PS	CONTR.	12.9	21		
CONTR.	PB1	11.2		29	
SUBTOTAL			21	29	
TOTAL			21	29	

CABLE

FROM	TO	CTR TO CTR DISTANCE	POWER 1c-#2	POWER 1c-#8	CONTROL 2c-#16	CONTROL 5c-#16	CONTROL 7c-#16	CONTROL 2c-#12	REMARKS
SOURCE ∅	PS/LT/CTRL	16	(177)						(59X3) INCLUDED IN COST OF PS
PS	CONTR.	12.9		87					3x29'
CONTR.	PB1	11.2							
				5					INCLUDE 5% FOR SNAKING
[redacted]				92					
[redacted]				90					

(INCLUDED IN COST OF PS)

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
1	R3-5R	30x36	7.5	7.5	1
1	R3-5L	30x36	7.5	7.5	1
1	R10-27a	30x36	7.5	7.5	1
1	D3-1	42x12	3.5	3.5	1
2	D3-1	96x18	12	24	2
			SUBTOTAL	50.00	6
			PAY TOTAL	50.00	6

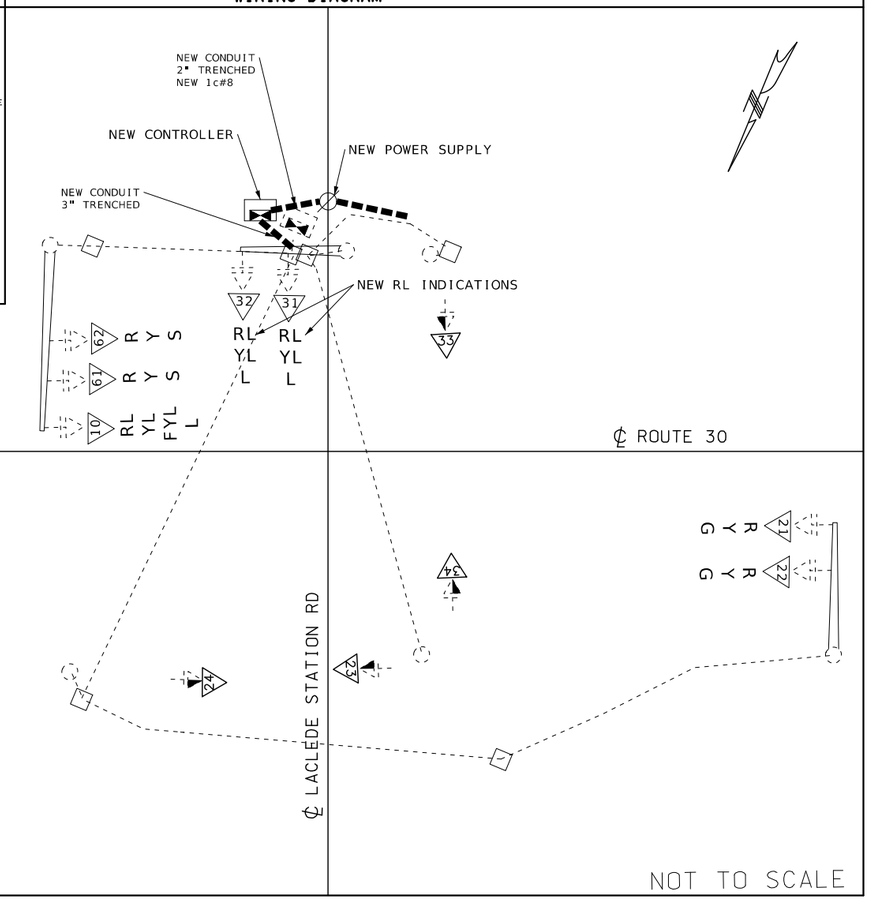
DETECTOR SCHEDULE

DETECTOR NUMBER	DETECTOR ZONE	TYPE: AUDIBLE PEDESTRIAN PUSH BUTTON	TYPE: SL DETECTION
61,62,10	E.B. T,T,LT		1
21,22	W.B. T,T		1
31	S.B. LT		1
TOTAL			***

LEGEND

- CONDUIT CONTAINING CABLE WITH SIZE
- EXIST. CONDUIT
- CABLE
- X-Xc — MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
- LIC — #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- DETECTOR WITH NUMBER
- SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SUPPLY

WIRING DIAGRAM



SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM

	DETECTION SYSTEM (EACH)	REMARKS
INTERSECTION TOTAL	1	SEE JOB SPECIAL PROVISIONS

SIGNAL HEAD INDICATION

DETECTOR NUMBER	FACE NUMBER	INSTALL LED: RED LEFT ARROW
	31	1
	32	1
	SUBTOTAL	2
	TOTAL	2

NOTE: RED LEFT ARROW LED QUANTITY INCLUDES "LEFT TURN SIGNAL" SIGN REMOVAL

LOCATION / BASE / PULL BOX / POST

POST NUMBER	PULL BOX NUMBER	LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	BASE: TYPE	BASE:	CONCRETE** (CU. YDS.)	PULL BOX: PREFORMED CONCRETE CLASS 2	CLASS 3	CLASS 5	STANDARD	DRAIN TYPE*: I	II A	II B	II C	POST: TOP MOUNT POST 8 FT.	15 FT.	STANCHION
			CONTROLLER	(AS REQ'D)			1.97											
						SUBTOTAL	1.97					[redacted]						
						PAY TOTAL	2.0											

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.

✳ ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

✳✳ SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.

✳✳✳ SEE SL DETECTION SYSTEM TABLE

POWER SUPPLY

LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	POWER SUPPLY ASSEMBLY: DUAL METER PAD MOUNTED COMBINATION SIGNAL/LIGHTING POWER SUPPLY W/UPS	CIRCUIT BREAKER TRIP RATING✳: CONTROLLER: AUXILIARY BREAKER	CONTROLLER: CONT & SIGNAL LAMPS	POWER SUPPLY DISCONNECT: MAIN BREAKER: SIGNALS	LIGHTING	LIGHTING CONTROL ✳ (ON POWER SUPPLY): 120/240 VOLT DUAL METER COMBO PS & LTG	MAIN BREAKER	SERVICE POLE: CONTRACT FURNISH	UTILITY COMPANY
ROUTE 30 EB	142+55.5	42' LT	1	15 Amps	15 Amps	100 Amps	100 Amps	1	15 Amps	Ci. Ft.	
				Amps	Amps	Amps	Amps		Amps	Ci. Ft.	

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
∅1 EB LEFT	∅2 WB THRU	∅3 SB THRU	N/U	N/U	∅6 EB THRU	N/U	N/U	OLA FYA ∅1	N/U	N/U	N/U	N/U	PED ∅2	PED ∅3	N/U

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	SYSTEM MASTER (CLOSED LOOP): NEMA	SYSTEM MASTER (CLOSED LOOP): 170	ACTUATED: NEMA	ACTUATED: 170	ON-OFF* SWITCH TYPE: I	II	COORDINATION INTERFACE *: 12C/7C HARDWIRE (1): MASTER	LOCAL	TIME BASE	CLOSED LOOP: NEMA	CLOSED LOOP: 170	FIBER	TIME * CLOCK	NEMA CABINET TYPE *: E	EV	DOUBLE	170 CABINET TYPE *: 332	336S	170 SOFTWARE *: BITRAN	WAPITI
ROUTE 30 EB	142+42.7	39' LT			1									1			1					

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LACLEDE STATION RD @ ROUTE 30
INTERSECTION

D-37 COMBINED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:32:53 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	84

COUNTY: ST. LOUIS
JOB NO.: JSL0081
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 QUANTITY SHEET
LACLEDE STATION RD

TRAFFIC SIGNALS LEGEND			
CONTROLLER	CCTV CAMERA	UNINT. POWER SUPPLY	
POWER SUPPLY	VIDEO DETECTOR	NEW CONDUIT (PUSHED)	
SIGNAL HEAD (PEDESTRIAN)	PUSH BUTTON DETECTOR	EX. CONDUIT	
SIGNAL HEAD (STANDARD)	PREFORMED PULL BOX	MAST ARM	
		ZONE ##	DETECTION ZONE

SIGNAL UPGRADES:

NEW CONTROLLER,
NEW UNINTERRUPTABLE POWER SUPPLY,
NEW DETECTION,
NEW 5-SECTION SIGNAL HEAD,
R&REPLACE EX. BLANK OUT
NO RIGHT TURN SIGNS,
MODIFY SIGNAL PHASING,
REMOVE ALL BACKPLATES AND REPLACE
WITH RETROREFLECTIVE BACKPLATES

PRIVATE SCHOOL

PRIVATE

155

160

MC NARY DR

20 MPH
4.85%

ZONE 80

UTV — UTV — UTV

G — G — G

D3-1(R&R)

R10-27a(R&R)

D3-1b(R&R)

R10-7(R&R)

R3-5L(R&R)

1450' TO NEXT SIGNAL

LACLEDE STATION RD

ZONE 50

ZONE 21

ZONE 20

ZONE 60

ZONE 61

ZONE 10

40 MPH
-1.60%

ROUTE 30

40 MPH
1.33%

ROUTE 30

1300' TO NEXT SIGNAL
MUSICK AVE

S1

S2

UIP EXIST.
CCTV

R&REPLACE EXIST.
NO RIGHT TURN
LED BLANK OUT SIGN
AND ATTACHED CABLE

R10-12
(R&R)

R&REPLACE EXIST.
NO RIGHT TURN
LED BLANK OUT SIGN
AND ATTACHED CABLE

NEW 5-SECTION
SIGNAL HEAD

R&REPLACE 24 SM FIBER
OPTIC CABLE IN EX. CONDUIT
FROM GRANT SIGNAL CABINET
TO MUSICK SIGNAL CABINET

SEE JSP FOR LED
SIGN DETAILS

SEE JSP FOR LED
SIGN DETAILS

ZONE 41

ZONE 40

2.53%
30 MPH

EX. CONTROLLER (R)
UIP CABINET AND CONCRETE BASE

NEW POWER SUPPLY
WITH UPS
STA. 57+28.6
OFFSET 59.7' RT

NEW CONTROLLER (UIP CABINET AND BASE)
STA. 157+19.6
OFFSET 63' RT

EX. POWER SUPPLY (R)

PRIVATE

PRIVATE/
COMMERCIAL

SCALE
0 20 40 60

INTERSECTION

ROUTE 30 AT GRANT RD

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

09/30/2025 12:39:02 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	85

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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 PLAN SHEET
GRANT RD

CONDUIT

FROM	TO	CTR TO CTR DISTANCE	TRENCHED 2"	TRENCHED 3"	PUSHED 3"
		27'	(35)		
		9.6'	9'		
SUBTOTAL			9'		
TOTAL			9'		

CABLE

FROM	TO	CTR TO CTR DISTANCE	POWER 1C–#2	POWER 1C–#8	CONTROL 3C–#16	CONTROL	CONTROL 7C–#16	CONTROL	REMARKS
		27'	(207)						(69X3) INCLUDED IN COST OF PS
		9.6'		78'					3x26'
	S1	36'			82'				
	S2	106'			163'				
	81	36'					112'		
				4'	13'		6'		INCLUDE 5% FOR SNAKING
				78'	257'		112'		
				80'	270'		120'		

RETROREFLECTIVE BACKPLATES

	LENSES		
NOTE: LENSE NUMBERS FOR INFORMATION ONLY	3	4	5
	7	2	0
TOTAL	9		

DETECTOR SCHEDULE

DETECTOR NUMBER	DETECTOR ZONE	TYPE: AUDIBLE PEDESTRIAN PUSH BUTTON	TYPE: SL DETECTION
60,61,10	E.B. T,T,LT		1
20,21,50	W.B. T,T,LT		1
40,41	S.B. LT,T		1
80,81	N.B. LT/T/RT		1
	TOTAL		***

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
2	R3-5L	30x36	7.5	15	2
1	R10-7	24X30	5	5	1
2	R10-12	30x36	7.5	15	2
3	R10-27a	30x36	7.5	15	3
2	D3-1	72x18	9	18	2
2	D3-1B	54x18	6.75	13.5	2
		SUBTOTAL		81.50	12
		PAY TOTAL		81.50	12

SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM

	DETECTION SYSTEM (EACH)	REMARKS
INTERSECTION TOTAL	1	SEE JOB SPECIAL PROVISIONS

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.

✳ ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

✳✳ SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.

✳✳✳ SEE SL DETECTION SYSTEM TABLE

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NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Ø1 EB LEFT	Ø2 WB THRU	Ø3 SIGN	Ø4 SB THRU	Ø5 WB LEFT	Ø6 EB THRU	N/U	Ø8 NB THRU/ LEFT	Ø9 EB LEFT	Ø10 NB LEFT	Ø11 WB LEFT	Ø12 SB LEFT	N/U	Ø14 EB PED	Ø15 NB PED	N/U

POWER SUPPLY

LOCATION: APPROACH	STATION	OFFSET	POWER SUPPLY ASSEMBLY: DUAL METER PAD MOUNTED COMBINATION SIGNAL/LIGHTING POWER SUPPLY W/UPS	CIRCUIT BREAKER TRIP RATING✳: CONTROLLER: AUXILIARY BREAKER	CONTROLLER: CONT & SIGNAL LAMPS	POWER SUPPLY DISCONNECT: MAIN BREAKER: SIGNALS	POWER SUPPLY DISCONNECT: MAIN BREAKER: LIGHTING	LIGHTING CONTROL ✳ (ON POWER SUPPLY): 120/240 VOLT DUAL METER COMBO PS & LTG	LIGHTING CONTROL ✳ (ON POWER SUPPLY): MAIN BREAKER	SERVICE POLE: CONTRACT FURNISH	SERVICE POLE: UTILITY COMPANY
ROUTE 30 WB	57+28.6	59.7' RT	1	15 Amps	15 Amps	100 Amps	100 Amps		15 Amps	Cl. Ft.	
				Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

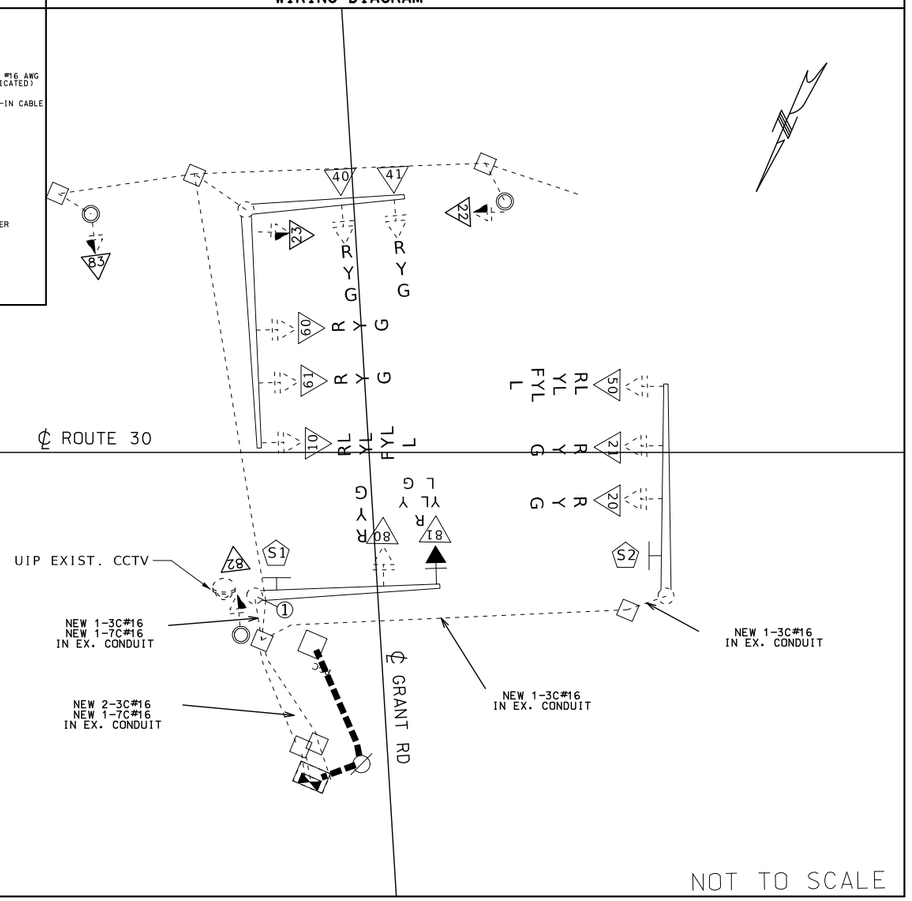
CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION: APPROACH	STATION	OFFSET	SYSTEM MASTER (CLOSED LOOP): NEMA	SYSTEM MASTER (CLOSED LOOP): 170	ACTUATED: NEMA	ACTUATED: 170	ON-OFF✳ SWITCH: TYPE I	ON-OFF✳ SWITCH: TYPE II	COORDINATION INTERFACE *: 12C/7C HARDWIRE (1): MASTER	COORDINATION INTERFACE *: 12C/7C HARDWIRE (1): LOCAL	TIME BASE	COORDINATION INTERFACE *: CLOSED LOOP: NEMA	COORDINATION INTERFACE *: CLOSED LOOP: 170	COORDINATION INTERFACE *: FIBER	TIME * CLOCK	NEMA CABINET TYPE *: E	NEMA CABINET TYPE *: EV	NEMA CABINET TYPE *: DOUBLE	170 CABINET TYPE *: 332	170 CABINET TYPE *: 336S	170 SOFTWARE *: BITRAN	170 SOFTWARE *: WAPITI
WB ROUTE 30	157+19.6	63' RT			1									1								

LEGEND

- CONDUIT CONTAINING CABLE WITH SIZE
- EXIST. CONDUIT
- CABLE
- X–Xc MULTI–CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
- LIC #14 AWG DETECTOR LEAD–IN CABLE (2C TWISTED SHIELDED)
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- DETECTOR WITH NUMBER
- SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SUPPLY

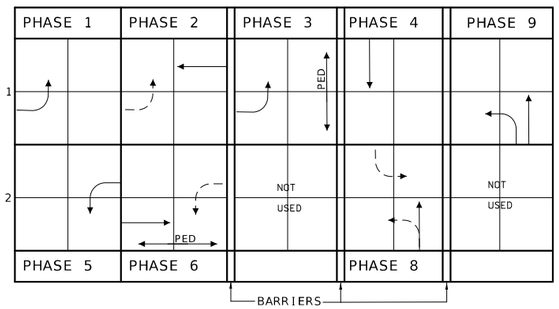
WIRING DIAGRAM



SIGNAL HEADS

POST NUMBER	FACE NUMBER	VISORS✳ 12"	VISORS✳ PED.	BRACKET✳ TYPE III	RETRO–REFLECTIVE BACKPLATE✳ LENSES 1	2	3	5	ONE–FACE 1– T	S	C	B	ONE–FACE 5– T	S	C	B
1	81	5		1				1								1
SUBTOTAL CONVENTIONAL																1
SUBTOTAL COUNTDOWN																
TOTAL CONVENTIONAL																1
TOTAL COUNTDOWN																

LEGEND
T – TOP MOUNT
S – SIDE MOUNT
C – SPANWIRE MOUNT
B – MAST ARM MOUNT



RING STRUCTURE

GRANT RD @ ROUTE 30

INTERSECTION

D–37 COMBINED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE–2006019687
PROFESSIONAL ENGINEER
08/22/2025 1:42:34 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED 8/21/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	86

COUNTY: ST. LOUIS
JOB NO.: JSL0081
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 QUANTITY SHEET
GRANT RD

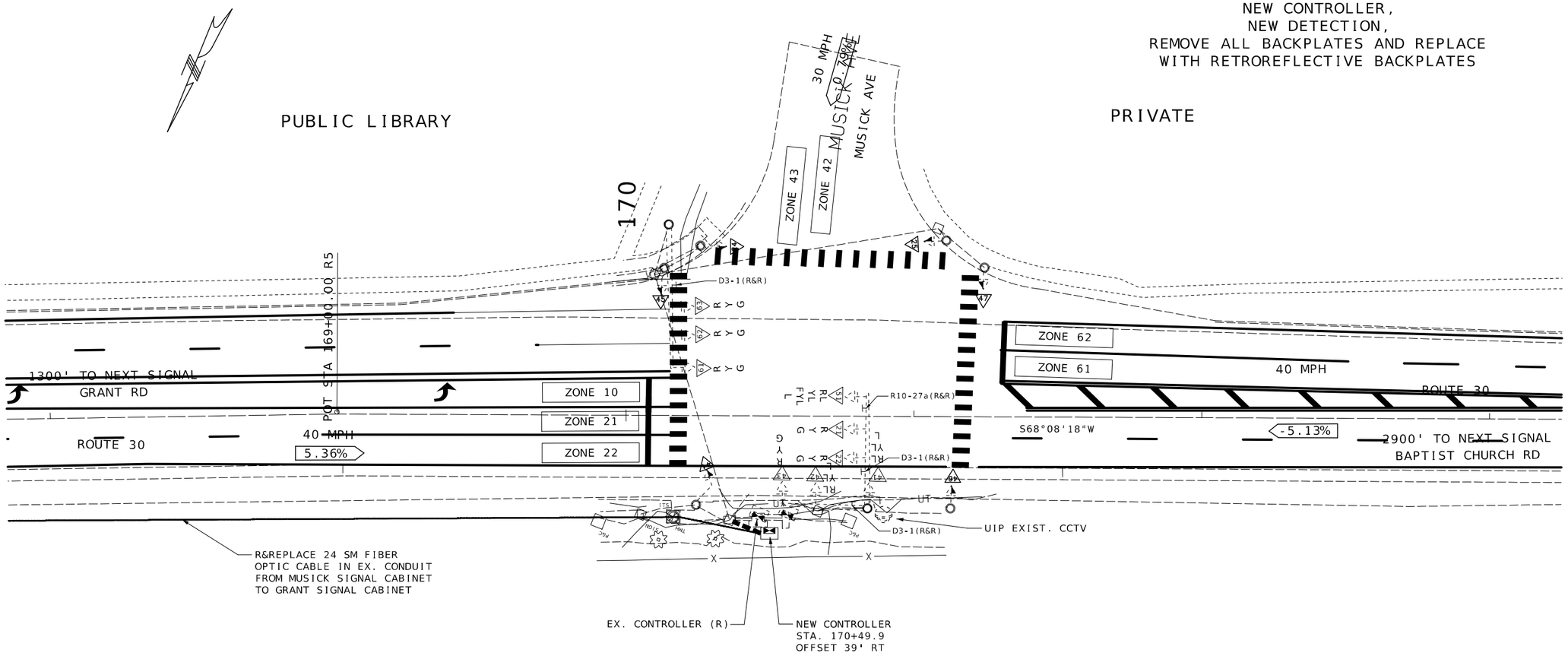
TRAFFIC SIGNALS LEGEND			
CONTROLLER	CCTV CAMERA	UNINT. POWER SUPPLY	
POWER SUPPLY	VIDEO DETECTOR	NEW CONDUIT (PUSHED)	
SIGNAL HEAD (PEDESTRIAN)	PUSH BUTTON DETECTOR	EX. CONDUIT	
SIGNAL HEAD (STANDARD)	PREFORMED PULL BOX	MAST ARM	
		ZONE ##	DETECTION ZONE

SIGNAL UPGRADES:

NEW CABINET,
NEW CONTROLLER,
NEW DETECTION,
REMOVE ALL BACKPLATES AND REPLACE
WITH RETROREFLECTIVE BACKPLATES

PUBLIC LIBRARY

PRIVATE



PRIVATE/
COMMERCIAL

SCALE

0 20 40 60

INTERSECTION

ROUTE 30 AT MUSICK AVE

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 12:43:49 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	87

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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 PLAN SHEET
MUSICK AVE

CONDUIT

FROM	TO	CTR TO CTR DISTANCE	TRENCHED 2"	TRENCHED 3"	PUSHED 3"
CONTR.	PB1	14.5		30	
SUBTOTAL				30	
TOTAL				30	

CABLE

FROM	TO	CTR TO CTR DISTANCE	POWER 1c-#2	POWER 1c-#8	CONTROL 2c-#16	CONTROL 5c-#16	CONTROL 7c-#16	CONTROL 2c-#12	REMARKS
									INCLUDE 5% FOR SNAKING

(INCLUDED IN COST OF PS)

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
1	R10-27a	30x36	7.5	7.5	1
3	D3-1	72x18	9	27	3
		SUBTOTAL		34.50	4
		PAY TOTAL		34.50	4

DETECTOR SCHEDULE

DETECTOR NUMBER	DETECTOR ZONE	TYPE: AUDIBLE PEDESTRIAN PUSH BUTTON	TYPE: SL DETECTION
61,62	E.B. T,T		1
21,22,51	W.B. T,T,LT		1
42	N.B. LT		1
43	N.B. RT+		1
TOTAL			***

LOCATION / BASE / PULL BOX / POST

POST NUMBER	PULL BOX NUMBER	APPROACH	STATION	OFFSET	BASE TYPE	BASE	CONCRETE** (CU. YDS.)	PULL BOX PREFORMED CLASS 2	PULL BOX PREFORMED CLASS 3	PULL BOX PREFORMED CLASS 5	PULL BOX CONCRETE STANDARD	DRAIN TYPE* I	DRAIN TYPE* II A	DRAIN TYPE* II B	DRAIN TYPE* II C	POST TOP MOUNT POST 8 FT.	POST TOP MOUNT POST 15 FT.	POST STANCHION
			CONTROLLER	(AS REQ'D)			1.97											
					SUBTOTAL		1.97											
					PAY TOTAL		2.0											

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.

*** SEE SL DETECTION SYSTEM TABLE

+ NB RT DETECTION ZONE SHALL BE ASSIGNED SEPARATELY FROM OTHER NB MOVEMENTS AND CONFIGURED WITH A DELAY

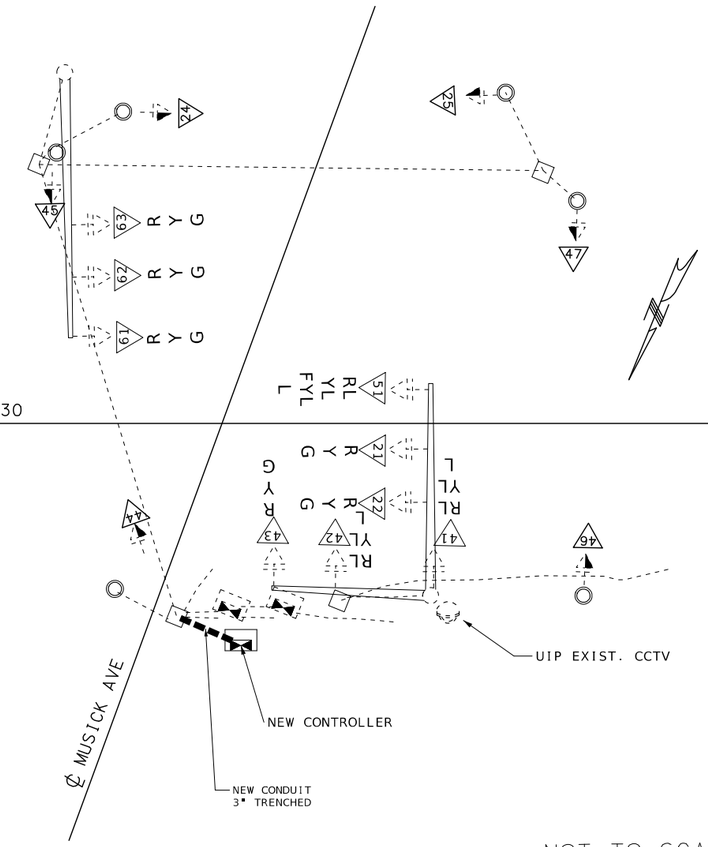
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LEGEND

- CONDUIT CONTAINING CABLE WITH SIZE
- EXIST. CONDUIT
- CABLE
- X-Xc — MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
- LIC — #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- DETECTOR WITH NUMBER
- SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SUPPLY

WIRING DIAGRAM



NOT TO SCALE

SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM

	DETECTION SYSTEM (EACH)	REMARKS
INTERSECTION TOTAL	1	SEE JOB SPECIAL PROVISIONS

RETROREFLECTIVE BACKPLATES

	LENSES		
NOTE: LENSE NUMBERS FOR INFORMATION ONLY	3	4	5
	8	1	0
TOTAL	9		

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
N/U	Ø2 WB THRU	Ø3 PED	Ø4 NB THRU	Ø5 WB LEFT	Ø6 EB THRU	N/U	N/U	N/U	N/U	OLC FYA ∅5	N/U	N/U	N/U	PED ∅6	N/U

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION: APPROACH	STATION	OFFSET	SYSTEM MASTER (CLOSED LOOP): NEMA	170	ACTUATED: NEMA	170	ON-OFF* SWITCH: I	II	COORDINATION INTERFACE *: 12C/7C HARDWIRE (1): MASTER	LOCAL	TIME BASE	CLOSED LOOP: NEMA	170	FIBER	TIME * CLOCK	NEMA CABINET TYPE *: E	EV	DOUBLE	170 CABINET TYPE *: 332	336S	170 SOFTWARE *: BITRAN	WAPITI
WB ROUTE 30	170+49.9	39' RT			1									1			1					

MUSICK AVE @ ROUTE 30

INTERSECTION

D-37 COMBINED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:33:09 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	88

COUNTY: ST. LOUIS

JOB NO.: JSL0081

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

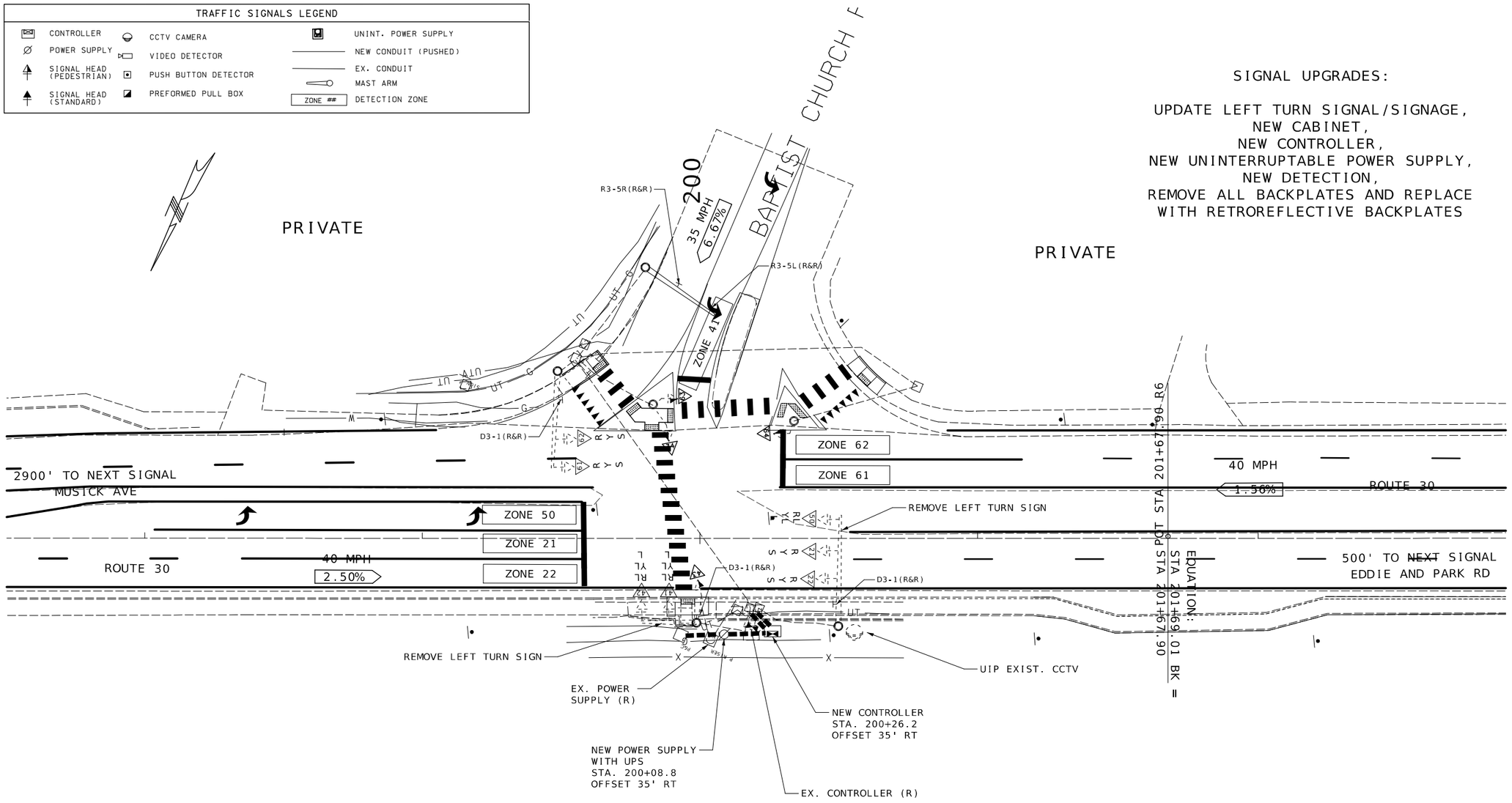
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNAL QUANTITY SHEET
MUSICK AVE

TRAFFIC SIGNALS LEGEND			
CONTROLLER	CCTV CAMERA	UNINT. POWER SUPPLY	
POWER SUPPLY	VIDEO DETECTOR	NEW CONDUIT (PUSHED)	
SIGNAL HEAD (PEDESTRIAN)	PUSH BUTTON DETECTOR	EX. CONDUIT	
SIGNAL HEAD (STANDARD)	PREFORMED PULL BOX	MAST ARM	
		ZONE ##	DETECTION ZONE

SIGNAL UPGRADES:

UPDATE LEFT TURN SIGNAL/SIGNAGE,
NEW CABINET,
NEW CONTROLLER,
NEW UNINTERRUPTABLE POWER SUPPLY,
NEW DETECTION,
REMOVE ALL BACKPLATES AND REPLACE
WITH RETROREFLECTIVE BACKPLATES



PRIVATE/
COMMERCIAL

SCALE
0 20 40 60

INTERSECTION
ROUTE 30 AT BAPTIST CHURCH RD

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 12:39:42 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED	9/25/2025
ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	89
COUNTY	ST. LOUIS
JOB NO.	JSL0081
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 PLAN SHEET
BAPTIST CHURCH RD

CONDUIT

FROM	TO	CTR TO CTR DISTANCE	TRENCHED 2"	TRENCHED 3"	PUSHED 3"
SOURCE	PS/LT/CTRL	15.7	(24)		
PS	CONTR.	17.5	26		
CONTR.	PB1	9.9		26	
SUBTOTAL			26	26	
TOTAL			26	26	

CABLE

FROM	TO	CTR TO CTR DISTANCE	POWER 1c-#2	POWER 1c-#8	CONTROL ⬡ 2c-#16	CONTROL ▽ 5c-#16	CONTROL 7c-#16	CONTROL 2c-#12	REMARKS
SOURCE ∅	PS/LT/CTRL	15.7	(177)						(59X3) INCLUDED IN COST OF PS
PS	CONTR.	17.5		102					3x34'
				6					INCLUDE 5% FOR SNAKING
SUBTOTAL				108					
TOTAL				110					

(INCLUDED IN COST OF PS)

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
1	R3-5R	30x36	7.5	7.5	1
1	R3-5L	30x36	7.5	7.5	1
1	D3-1	42x12	3.5	3.5	1
2	D3-1	96x18	12	24	2
			SUBTOTAL	42.50	5
			PAY TOTAL	42.50	5

DETECTOR SCHEDULE

DETECTOR NUMBER	DETECTOR ZONE	TYPE: AUDIBLE PEDESTRIAN PUSH BUTTON	TYPE: SL DETECTION
61,62	E.B. T,T		1
50,21,22	W.B. LT,T,T		1
41	N.B. LT		1
TOTAL			***

LOCATION / BASE / PULL BOX / POST

POST NUMBER	PULL BOX NUMBER	APPROACH	STATION	OFFSET	BASE TYPE	BASE C	CONCRETE** (CU. YDS.)	PULL BOX PREFORMED CLASS 2	PULL BOX PREFORMED CLASS 3	PULL BOX PREFORMED CLASS 5	PULL BOX CONCRETE STANDARD	DRAIN TYPE* I	DRAIN TYPE* II A	DRAIN TYPE* II B	DRAIN TYPE* II C	POST TOP MOUNT 8 FT.	POST TOP MOUNT 15 FT.	POST STANCHION
		CONTROLLER	(AS REQ'D)				1.97											
					SUBTOTAL		1.97											
					PAY TOTAL		2.0											

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.

*** SEE SL DETECTION SYSTEM TABLE

POWER SUPPLY

LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	POWER SUPPLY ASSEMBLY: DUAL METER PAD MOUNTED COMBINATION SIGNAL/LIGHTING POWER SUPPLY W/UPS	CIRCUIT BREAKER TRIP RATING*: CONTROLLER: AUXILIARY BREAKER	CONTROLLER: CONT & SIGNAL LAMPS	POWER SUPPLY DISCONNECT: MAIN BREAKER: SIGNALS	POWER SUPPLY DISCONNECT: MAIN BREAKER: LIGHTING	LIGHTING CONTROL * (ON POWER SUPPLY): 120/240 VOLT DUAL METER COMBO PS & LTG	LIGHTING CONTROL * (ON POWER SUPPLY): MAIN BREAKER	SERVICE POLE: CONTRACT FURNISH	SERVICE POLE: UTILITY COMPANY
ROUTE 30 WB	200+08.	35' RT	1	15 Amps	15 Amps	100 Amps	100 Amps	1	15 Amps	CI. Ft.	
				Amps	Amps	Amps	Amps		Amps	CI. Ft.	

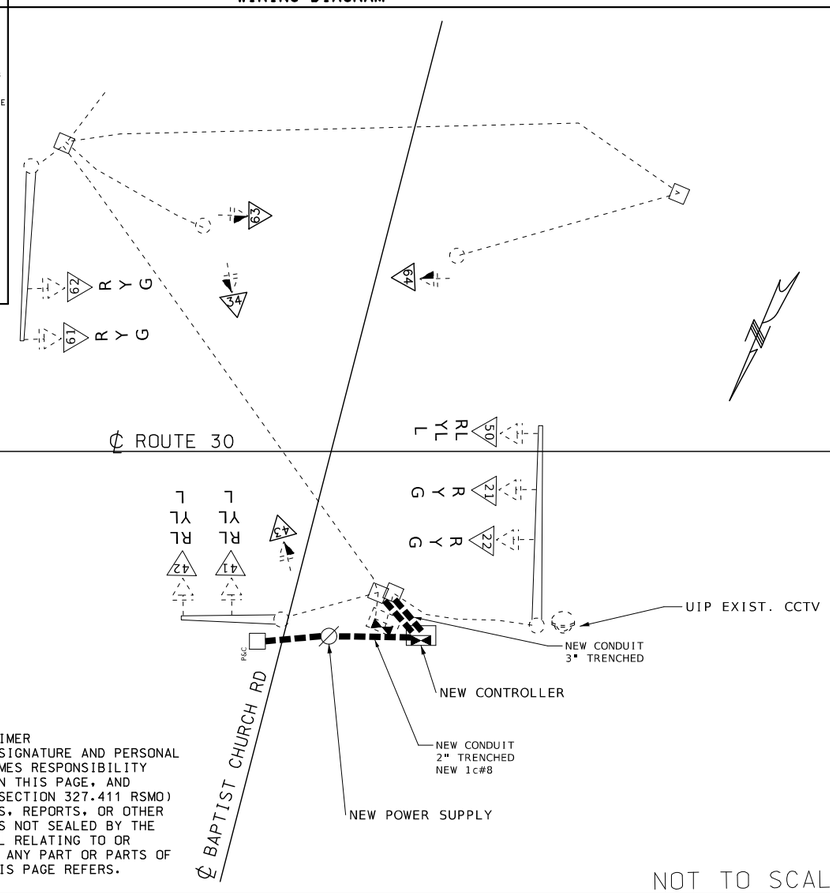
CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	SYSTEM MASTER (CLOSED LOOP): NEMA	SYSTEM MASTER (CLOSED LOOP): 170	ACTUATED: NEMA	ACTUATED: 170	ON-OFF* SWITCH: TYPE I	ON-OFF* SWITCH: TYPE II	COORDINATION INTERFACE * 12C/7C HARDWIRE (1): MASTER	COORDINATION INTERFACE * 12C/7C HARDWIRE (1): LOCAL	TIME BASE	CLOSED LOOP: NEMA	CLOSED LOOP: 170	FIBER	TIME * CLOCK	NEMA CABINET TYPE *: E	NEMA CABINET TYPE *: EV	NEMA CABINET TYPE *: DOUBLE	170 CABINET TYPE *: 332	170 CABINET TYPE *: 336S	170 SOFTWARE *: BITRAN	170 SOFTWARE *: WAPITI
ROUTE 30 WB	200+26.2	35' RT			1									1			1					

LEGEND

- CONDUIT CONTAINING CABLE WITH SIZE
- EXIST. CONDUIT
- CABLE
- X-Xc MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
- LIC #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- (X) PULL BOX WITH NUMBER
- (X) POST WITH NUMBER
- (X) DETECTOR WITH NUMBER
- X SIGNAL HEAD WITH NUMBER
- [X] SIGNAL CONTROLLER
- ∅ POWER SUPPLY

WIRING DIAGRAM



NOT TO SCALE

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SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM

	DETECTION SYSTEM (EACH)	REMARKS
INTERSECTION TOTAL	1	SEE JOB SPECIAL PROVISIONS

SIGNAL HEAD INDICATION

DETECTOR NUMBER	FACE NUMBER	INSTALL LED RED LEFT ARROW
50		1
31		1
32		1
SUBTOTAL		3
TOTAL		3

NOTE: RED LEFT ARROW LED QUANTITY INCLUDES "LEFT TURN SIGNAL" SIGN REMOVAL

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
N/U	∅2 WB THRU	N/U	∅4 NB THRU	∅5 WB LEFT	∅6 EB THRU	∅7 LEFT TURN GREEN	N/U	N/U	N/U	N/U	N/U	N/U	PED ∅4	PED ∅6	N/U

RETROREFLECTIVE BACKPLATES

	LENSES		
NOTE: LENSE NUMBERS FOR INFORMATION ONLY	3	4	5
	7	0	0
TOTAL	7		

BAPTIST CHURCH RD @ ROUTE 30

INTERSECTION

D-37 COMBINED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:32:36 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	90

COUNTY: ST. LOUIS

JOB NO.: JSL0081

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)

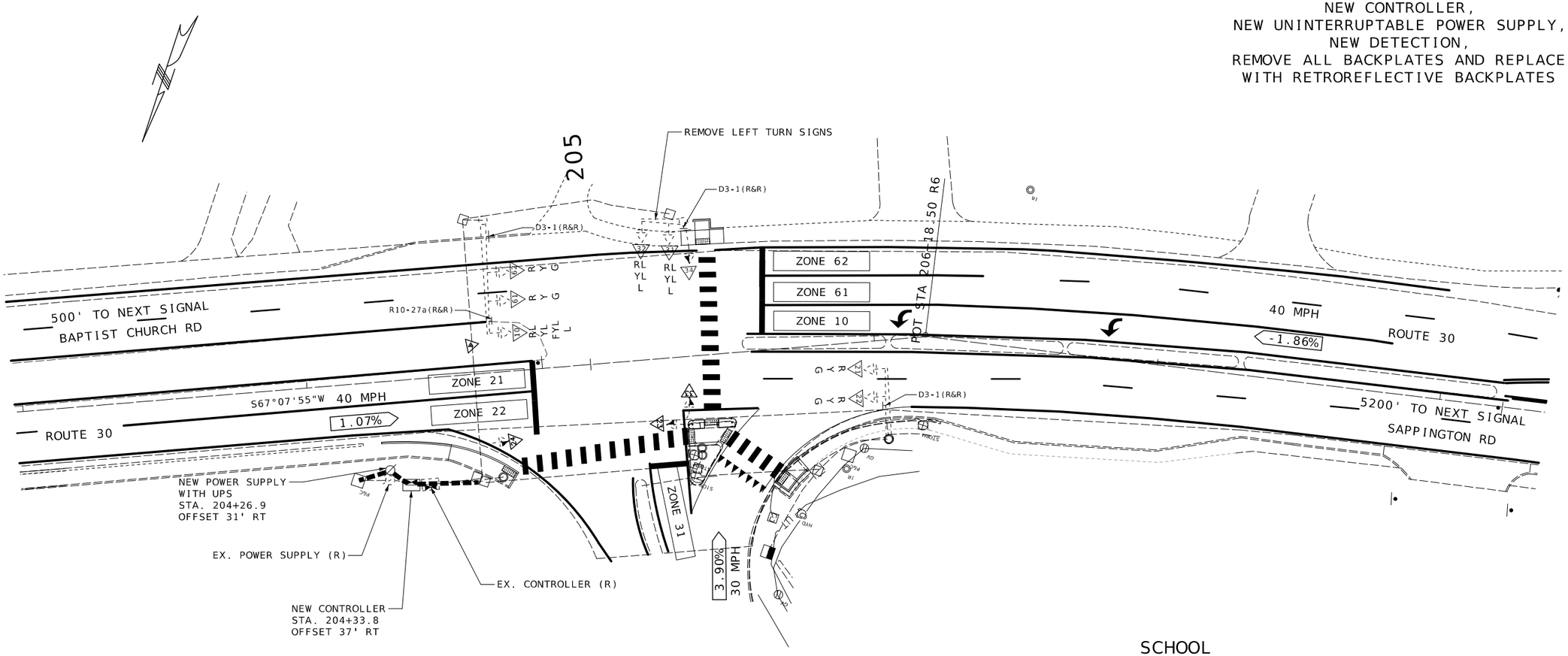
SIGNAL QUANTITY SHEET
BAPTIST CHURCH RD

TRAFFIC SIGNALS LEGEND			
CONTROLLER	CCTV CAMERA	UNINT. POWER SUPPLY	
POWER SUPPLY	VIDEO DETECTOR	NEW CONDUIT (PUSHED)	
SIGNAL HEAD (PEDESTRIAN)	PUSH BUTTON DETECTOR	EX. CONDUIT	
SIGNAL HEAD (STANDARD)	PREFORMED PULL BOX	MAST ARM	
		ZONE ##	DETECTION ZONE

PRIVATE

SIGNAL UPGRADES:

UPDATE LEFT TURN SIGNAL/SIGNAGE,
NEW CABINET,
NEW CONTROLLER,
NEW UNINTERRUPTABLE POWER SUPPLY,
NEW DETECTION,
REMOVE ALL BACKPLATES AND REPLACE
WITH RETROREFLECTIVE BACKPLATES



PRIVATE/
COMMERICAL

SCHOOL

SCALE
0 20 40 60

INTERSECTION
ROUTE 30 AT EDDIE AND PARK RD

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 12:43:58 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	91

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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 PLAN SHEET
EDDIE & PARK RD

CONDUIT

FROM	TO	CTR TO CTR DISTANCE	TRENCHED 2"	TRENCHED 3"	PUSHED 3"
SOURCE	PS/LT/CTRL	11.6	(20)		
PS	CONTR.	9	17		
CONTR.	PB1	24.6		41	
SUBTOTAL			17	41	
TOTAL			17	41	

CABLE

FROM	TO	CTR TO CTR DISTANCE	POWER 1c-#2	POWER 1c-#8	CONTROL 2c-#16	CONTROL 5c-#16	CONTROL 7c-#16	CONTROL 2c-#12	REMARKS
SOURCE ∅	PS/LT/CTRL	11.6	(165)						(55X3) INCLUDE IN COST OF PS
PS	CONTR.	9		75					3x25'
				4					INCLUDE 5% FOR SNAKING
				79					
				80					

(INCLUDED IN COST OF PS)

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
1	R10-27a	30x36	7.5	7.5	1
1	D3-1	42x12	3.5	3.5	1
2	D3-1	96x18	12	24	2
			SUBTOTAL	36.00	4
			PAY TOTAL	36.00	4

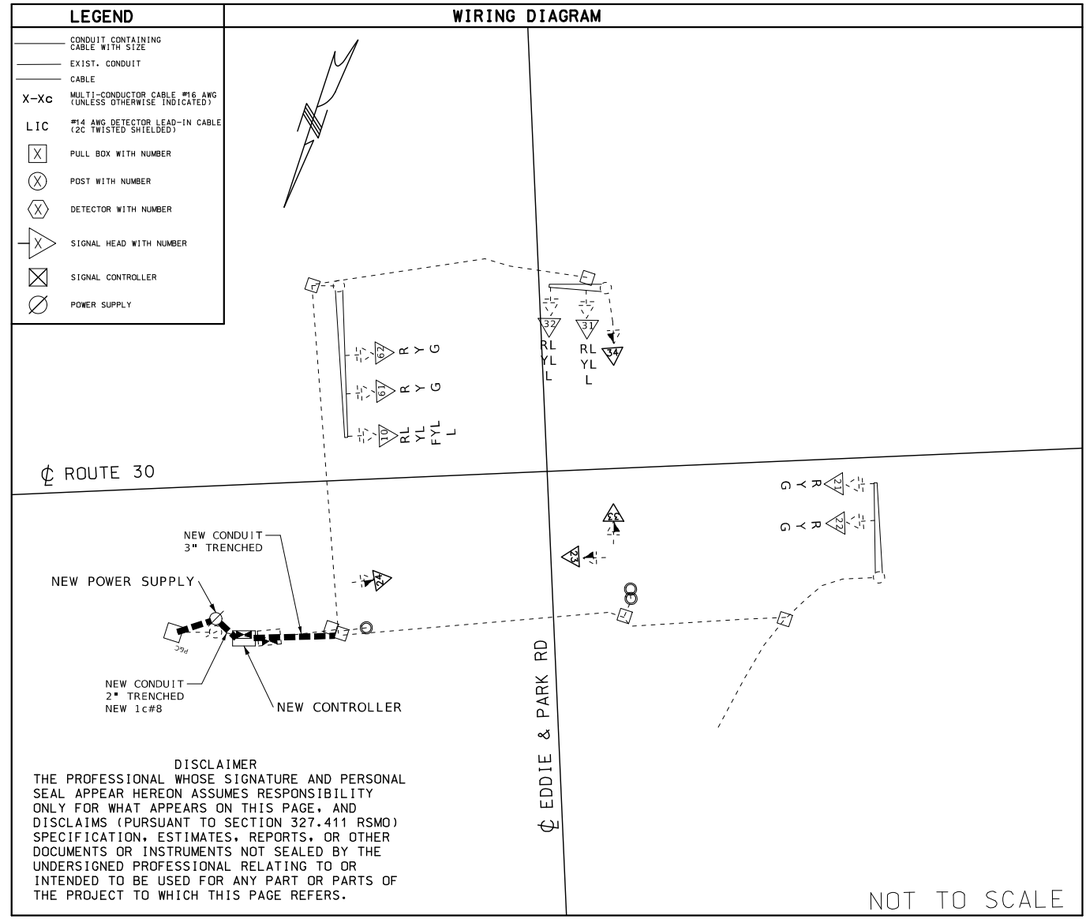
DETECTOR SCHEDULE

DETECTOR NUMBER	DETECTOR ZONE	TYPE: AUDIBLE PEDESTRIAN PUSH BUTTON	TYPE: SL DETECTION
61,62,10	E.B. T,T,LT		1
21,22	W.B. T,T		1
31	S.B. LT		1
	TOTAL		***

LEGEND

- CONDUIT CONTAINING CABLE WITH SIZE
- EXIST. CONDUIT
- CABLE
- X-Xc MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
- LIC #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- DETECTOR WITH NUMBER
- SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SUPPLY

WIRING DIAGRAM



DISCLAIMER
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NOT TO SCALE

LOCATION / BASE / PULL BOX / POST

POST NUMBER	PULL BOX NUMBER	APPROACH	STATION	OFFSET	BASE TYPE C	CONCRETE** (CU. YDS.)	PULL BOX PREFORMED CLASS 2	PULL BOX PREFORMED CLASS 3	PULL BOX PREFORMED CLASS 5	PULL BOX CONCRETE STANDARD	DRAIN TYPE* I	DRAIN TYPE* II A	DRAIN TYPE* II B	DRAIN TYPE* II C	POST TOP MOUNT 8 FT.	POST TOP MOUNT 15 FT.	POST STANCHION
			CONTROLLER	(AS REQ'D)		1.97											
					SUBTOTAL	1.97											
					PAY TOTAL	2.0											

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.
* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.
** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.
*** SEE SL DETECTION SYSTEM TABLE

SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM

	DETECTION SYSTEM (EACH)	REMARKS
INTERSECTION TOTAL	1	SEE JOB SPECIAL PROVISIONS

SIGNAL HEAD INDICATION

DETECTOR NUMBER	FACE NUMBER	INSTALL LED: RED LEFT ARROW
	31	1
	32	1
	SUBTOTAL	2
	TOTAL	2

NOTE: RED LEFT ARROW LED QUANTITY INCLUDES "LEFT TURN SIGNAL" SIGN REMOVAL

POWER SUPPLY

LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	POWER SUPPLY ASSEMBLY: DUAL METER PAD MOUNTED COMBINATION SIGNAL/LIGHTING POWER SUPPLY W/UPS	CIRCUIT BREAKER TRIP RATING*: CONTROLLER AUXILIARY BREAKER	CONTROLLER CONT & SIGNAL LAMPS	POWER SUPPLY DISCONNECT MAIN BREAKER SIGNALS	POWER SUPPLY DISCONNECT MAIN BREAKER LIGHTING	LIGHTING CONTROL * (ON POWER SUPPLY): 120/240 VOLT DUAL METER COMBO PS & LTG	LIGHTING CONTROL * (ON POWER SUPPLY): MAIN BREAKER	SERVICE POLE: CONTRACT FURNISH	SERVICE POLE: UTILITY COMPANY
ROUTE 30 WB	204+26.9	31' RT	1	15 Amps	15 Amps	100 Amps	100 Amps	1	15 Amps	Ci. Ft.	
				Amps	Amps	Amps	Amps		Amps	Ci. Ft.	

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
∅1 EB LEFT	∅2 WB THRU	∅3 SB THRU	N/U	N/U	∅6 EB THRU	N/U	N/U	OLA FYA ∅1	N/U	N/U	N/U	N/U	PED ∅2	PED ∅3	N/U

RETROREFLECTIVE BACKPLATES

NOTE: LENSE NUMBERS FOR INFORMATION ONLY	LENSES		
	3	4	5
	6	1	0
TOTAL	7		

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	SYSTEM MASTER (CLOSED LOOP): NEMA	SYSTEM MASTER (CLOSED LOOP): 170	ACTUATED: NEMA	ACTUATED: 170	ON-OFF* SWITCH TYPE: I	ON-OFF* SWITCH TYPE: II	COORDINATION INTERFACE *: 12C/7C HARDWIRE (1) MASTER	COORDINATION INTERFACE *: 12C/7C HARDWIRE (1) LOCAL	COORDINATION INTERFACE *: TIME BASE	COORDINATION INTERFACE *: CLOSED LOOP NEMA	COORDINATION INTERFACE *: CLOSED LOOP 170	COORDINATION INTERFACE *: FIBER	TIME * CLOCK	NEMA CABINET TYPE *: E	NEMA CABINET TYPE *: EV	NEMA CABINET TYPE *: DOUBLE	170 CABINET TYPE *: 332	170 CABINET TYPE *: 336S	170 SOFTWARE *: BITRAN	170 SOFTWARE *: WAPITI
ROUTE 30 WB	204+33.8	37' RT			1									1			1					

EDDIE & PARK RD @ ROUTE 30
INTERSECTION

D-37 COMBINED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:33:00 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/25/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 92
COUNTY: ST. LOUIS
JOB NO.: JSL0081
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 QUANTITY SHEET
EDDIE & PARK RD

TRAFFIC SIGNALS LEGEND			
CONTROLLER	CCTV CAMERA	UNINT. POWER SUPPLY	
POWER SUPPLY	VIDEO DETECTOR	NEW CONDUIT (PUSHED)	
SIGNAL HEAD (PEDESTRIAN)	PUSH BUTTON DETECTOR	EX. CONDUIT	
SIGNAL HEAD (STANDARD)	PREFORMED PULL BOX	MAST ARM	
		ZONE ##	DETECTION ZONE

SIGNAL UPGRADES:

UPDATE LEFT TURN SIGNAL/SIGNAGE,
NEW DETECTION,
REMOVE ALL BACKPLATES AND REPLACE
WITH RETROREFLECTIVE BACKPLATES

COMMERCIAL

COMMERCIAL

UIP EXIST. CCTV

D3-1(R&R)

REMOVE LEFT TURN SIGN

POT STA 258+11.13 RT

5200' TO NEXT SIGNAL
EDDIE AND PARK RD

40 MPH

1.07%

ZONE 50

ZONE 21

ZONE 22

ZONE 42

ZONE 41

35 MPH

-1.95%

ZONE 70

R10-27a(R&R)

D3-1(R&R)

260

ZONE 62

ZONE 61

ZONE 10

40 MPH

1.86%

R10-27a(R&R)

D3-1(R&R)

1700' TO NEXT SIGNAL
LINDBERGH BLVD

ZONE 30

ZONE 81

ZONE 82

D3-1(R&R)

R10-27a(R&R)

3.00%

35 MPH

PUBLIC PARK

COMMERCIAL

SCALE

0 20 40 60

INTERSECTION

ROUTE 30 AT SAPPINGTON RD

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

09/30/2025 12:39:31 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	93

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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 PLAN SHEET
SAPPINGTON RD

POST NUMBER	FACE NUMBER	SIGNAL HEADS															
			VISORS*		BRACKET*	BACKPLATE* LENSES				ONE-FACE 1-				ONE-FACE 5-			
			12"	PED.	TYPE I	1	2	3	4	T	S	C	B	T	S	C	B
REMOVAL OF ONE "LEFT TURN SIGNAL" SIGN IS REQUIRED (IT IS ADJACENT TO SIGNAL HEAD 10)																	
SUBTOTAL CONVENTIONAL																	
SUBTOTAL COUNTDOWN																	
TOTAL CONVENTIONAL																	
TOTAL COUNTDOWN																	

RETROREFLECTIVE BACKPLATES			
	LENSES		
NOTE: LENSE NUMBERS FOR INFORMATION ONLY	3	4	5
	9	3	0
TOTAL	12		

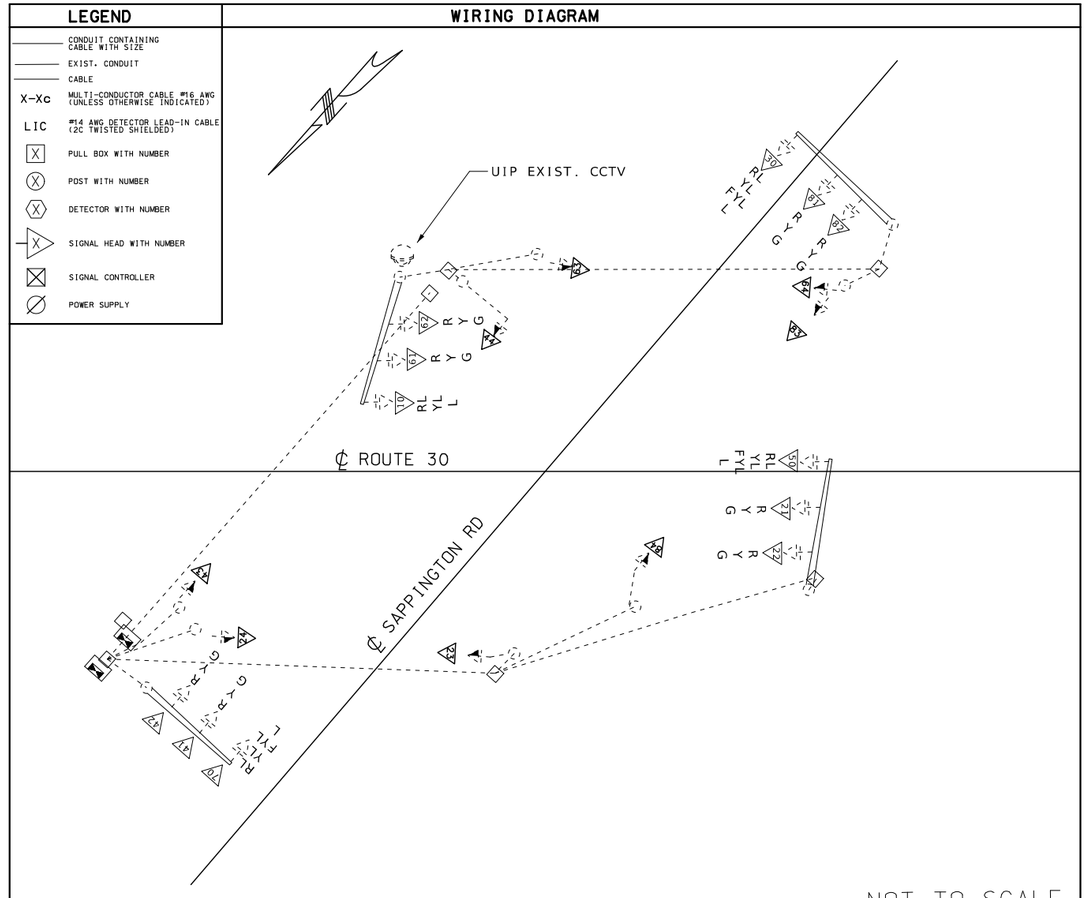
DETECTOR SCHEDULE			
DETECTOR NUMBER	DETECTOR ZONE	TYPE	
		AUDIBLE PEDESTRIAN PUSH BUTTON	SL DETECTION
61,62,10	E.B. T,T,LT		1
21,22,50	W.B. T,T,LT		1
81,82,30	S.B. T,T,LT		1
41,42,70	N.B. T,T,LT		1
	TOTAL		***

SIGNAL SIGNS					
QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
3	R10-27a	30x36	7.5	22.5	3
2	D3-1	72x18	9	18	2
2	D3-1	96x18	12	24	2
			SUBTOTAL	64.50	7
			PAY TOTAL	64.50	7

LEGEND

- CONDUIT CONTAINING CABLE WITH SIZE
- EXIST. CONDUIT
- CABLE
- X-Xc — MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
- LIC — #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- DETECTOR WITH NUMBER
- SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SUPPLY

WIRING DIAGRAM



SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM		
	DETECTION SYSTEM (EACH)	REMARKS
INTERSECTION TOTAL	1	SEE JOB SPECIAL PROVISIONS

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.
* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.
** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.
*** SEE SL DETECTION SYSTEM TABLE

POWER SUPPLY												
LOCATION			POWER SUPPLY ASSEMBLY	CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE		
				CONTROLLER		POWER SUPPLY DISCONNECT						
APPROACH	STATION	OFFSET	DUAL METER PAD MOUNTED COMBINATION SIGNAL/LIGHTING POWER SUPPLY W/UPS	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120/240 VOLT DUAL METER COMBO PS & LTG	MAIN BREAKER	CONTRACT FURNISH		UTILITY COMPANY
						SIGNALS	LIGHTING					
				Amps	Amps	Amps	Amps		Amps	Cl.	Ft.	
				Amps	Amps	Amps	Amps		Amps	Cl.	Ft.	

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SAPPINGTON RD @ ROUTE 30
INTERSECTION

D-37 COMBINED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 1:43:32 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/21/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 94
COUNTY: ST. LOUIS
JOB NO.: JSL0081
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

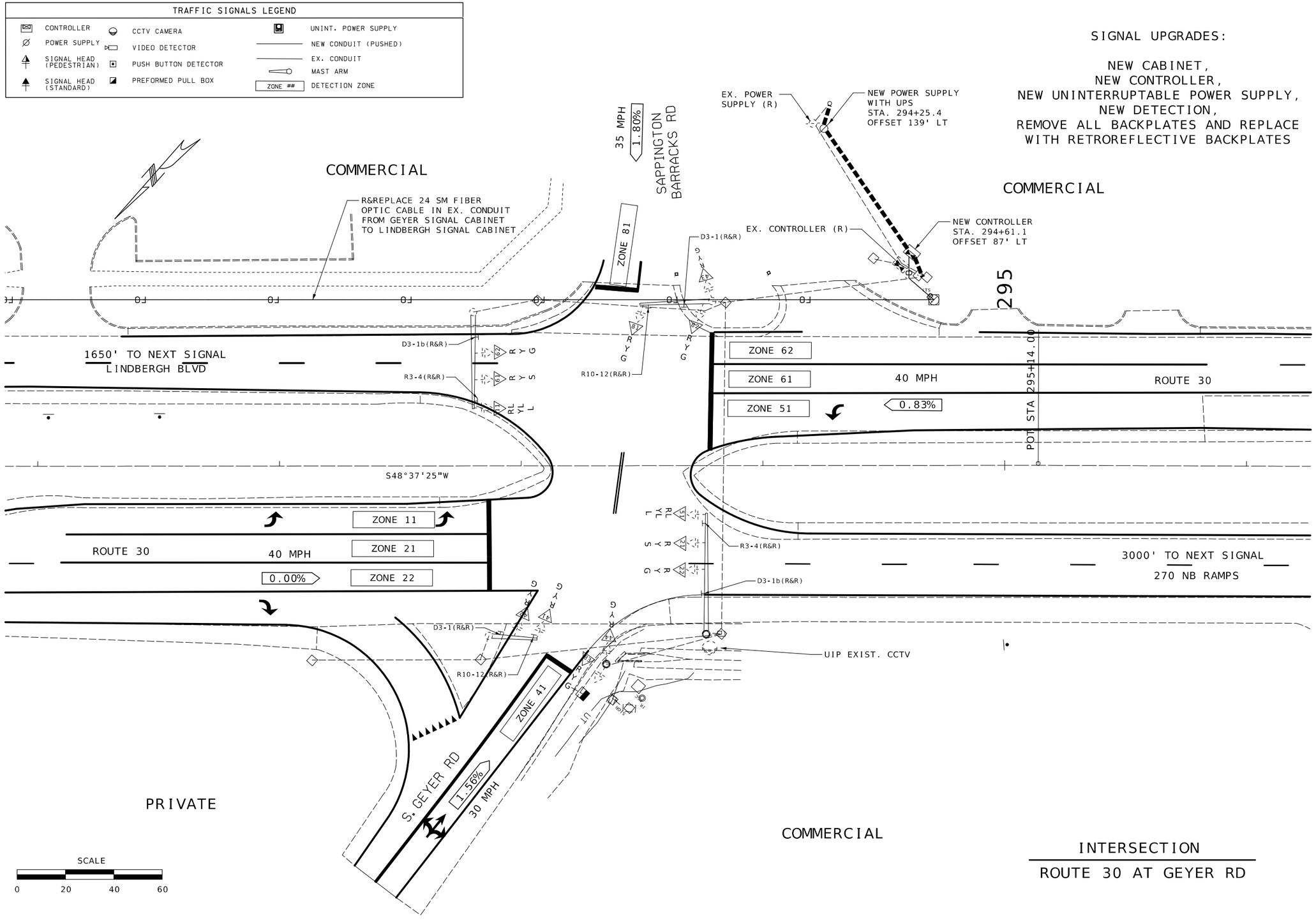
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNAL QUANTITY SHEET
SAPPINGTON RD

TRAFFIC SIGNALS LEGEND			
CONTROLLER	CCTV CAMERA	UNINT. POWER SUPPLY	
POWER SUPPLY	VIDEO DETECTOR	NEW CONDUIT (PUSHED)	
SIGNAL HEAD (PEDESTRIAN)	PUSH BUTTON DETECTOR	EX. CONDUIT	
SIGNAL HEAD (STANDARD)	PREFORMED PULL BOX	MAST ARM	
		ZONE ##	DETECTION ZONE

SIGNAL UPGRADES:

NEW CABINET,
NEW CONTROLLER,
NEW UNINTERRUPTABLE POWER SUPPLY,
NEW DETECTION,
REMOVE ALL BACKPLATES AND REPLACE
WITH RETROREFLECTIVE BACKPLATES



INTERSECTION

ROUTE 30 AT GEYER RD

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 12:45:33 PM
STUART ROBINSON MCNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	95

COUNTY: ST. LOUIS

JOB NO.: JSL0081

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 PLAN SHEET
GEYER RD

CONDUIT

FROM	TO	CTR TO CTR DISTANCE	TRENCHED 2"	TRENCHED 3"	PUSHED 3"
SOURCE	PS/LT/CTRL	10.6	(19)		
PS	CONTR.	63	71		
CONTR.	PB1	10.9		28	
SUBTOTAL			71	28	
TOTAL			71	28	

CABLE

FROM	TO	CTR TO CTR DISTANCE	POWER 1c–#2	POWER 1c–#8	CONTROL 2c–#16	CONTROL 5c–#16	CONTROL 7c–#16	CONTROL 2c–#12	REMARKS
SOURCE ∅	PS/LT/CTRL	10.6	(152)						(54X3) INCLUDED IN COST OF PS
PS	CONTR.	63		237					3x79'
				12					INCLUDE 5% FOR SNAKING
SUBTOTAL				249					
TOTAL				250					

(INCLUDED IN COST OF PS)

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
2	R3-4	24X24	4	8	2
2	R10-12	30x36	7.5	15	2
2	D3-1	72x18	9	18	2
2	D3-1b	96x18	12	24	2
			SUBTOTAL	65.00	8
			PAY TOTAL	65.00	8

DETECTOR SCHEDULE

DETECTOR NUMBER	DETECTOR ZONE	TYPE: AUDIBLE PEDESTRIAN PUSH BUTTON	TYPE: SL DETECTION
61,62,11	E.B. T,T,LT		1
21,22,51	W.B. T,T,LT		1
81	S.B. LT/T/RT		1
41	N.B. LT/T/RT		1
	TOTAL		***

LOCATION / BASE / PULL BOX / POST

POST NUMBER	PULL BOX NUMBER	APPROACH	STATION	OFFSET	BASE TYPE	BASE	CONCRETE** (CU. YDS.)	PULL BOX PREFORMED CLASS 2	PULL BOX PREFORMED CLASS 3	PULL BOX PREFORMED CLASS 5	PULL BOX CONCRETE STANDARD	DRAIN TYPE* I	DRAIN TYPE* II A	DRAIN TYPE* II B	DRAIN TYPE* II C	POST TOP MOUNT POST 8 FT.	POST TOP MOUNT POST 15 FT.	POST STANCHION
		CONTROLLER	(AS REQ'D)				1.97											
					SUBTOTAL		1.97											
					PAY TOTAL		2.0											

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.

*** SEE SL DETECTION SYSTEM TABLE

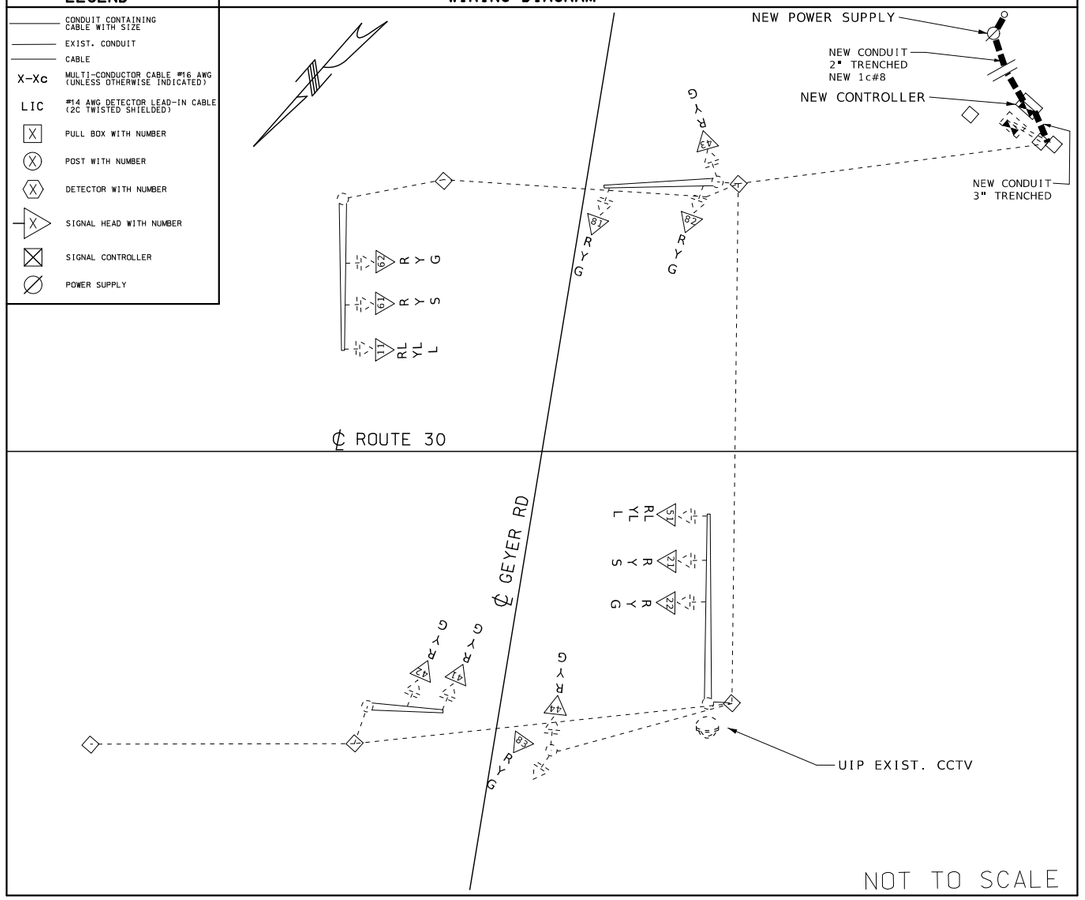
POWER SUPPLY

LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	POWER SUPPLY ASSEMBLY: DUAL METER PAD MOUNTED COMBINATION SIGNAL/LIGHTING POWER SUPPLY W/UPS	CIRCUIT BREAKER TRIP RATING*: CONTROLLER: AUXILIARY BREAKER	CONTROLLER: CONT & SIGNAL LAMPS	POWER SUPPLY DISCONNECT: MAIN BREAKER: SIGNALS	POWER SUPPLY DISCONNECT: MAIN BREAKER: LIGHTING	LIGHTING CONTROL * (ON POWER SUPPLY): 120/240 VOLT DUAL METER COMBO PS & LTG	LIGHTING CONTROL * (ON POWER SUPPLY): MAIN BREAKER	SERVICE POLE: CONTRACT FURNISH	SERVICE POLE: UTILITY COMPANY
EB ROUTE 30	294+25.4	139' LT	1	15 Amps	15 Amps	100 Amps	100 Amps	1	15 Amps	Ci. Ft.	
				Amps	Amps	Amps	Amps		Amps	Ci. Ft.	

LEGEND

- CONDUIT CONTAINING CABLE WITH SIZE
- EXIST. CONDUIT
- CABLE
- X–Xc MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
- LIC #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- DETECTOR WITH NUMBER
- SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SUPPLY

WIRING DIAGRAM



SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM

	DETECTION SYSTEM (EACH)	REMARKS
INTERSECTION TOTAL	1	SEE JOB SPECIAL PROVISIONS

RETROREFLECTIVE BACKPLATES

	LENSES		
NOTE: LENSE NUMBERS FOR INFORMATION ONLY	3	4	5
	12	0	0
TOTAL	12		

DISCLAIMER

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NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Ø1 EB LEFT	Ø2 WB THRU	N/U	Ø4 NB THRU	Ø5 WB LEFT	Ø6 EB THRU	N/U	Ø8 SB THRU	N/U	N/U	N/U	N/U	N/U	N/U	N/U	N/U

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	SYSTEM MASTER (CLOSED LOOP): NEMA	SYSTEM MASTER (CLOSED LOOP): 170	ACTUATED: NEMA	ACTUATED: 170	ON-OFF* SWITCH: TYPE I	ON-OFF* SWITCH: TYPE II	COORDINATION INTERFACE *: 12C/7C HARDWIRE (1): MASTER	COORDINATION INTERFACE *: 12C/7C HARDWIRE (1): LOCAL	COORDINATION INTERFACE *: TIME BASE	COORDINATION INTERFACE *: CLOSED LOOP: NEMA	COORDINATION INTERFACE *: CLOSED LOOP: 170	COORDINATION INTERFACE *: FIBER	TIME * CLOCK	NEMA CABINET TYPE *: E	NEMA CABINET TYPE *: EV	NEMA CABINET TYPE *: DOUBLE	170 CABINET TYPE *: 332	170 CABINET TYPE *: 336S	170 SOFTWARE *: BITRAN	170 SOFTWARE *: WAPITI
EB ROUTE 30	294+61.1	87' LT			1									1			1					

GEYER RD @ ROUTE 30

INTERSECTION

D-37 COMBINED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:32:44 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED 9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	96

COUNTY: ST. LOUIS

JOB NO.: JSL0081

CONTRACT ID.:

PROJECT NO.:

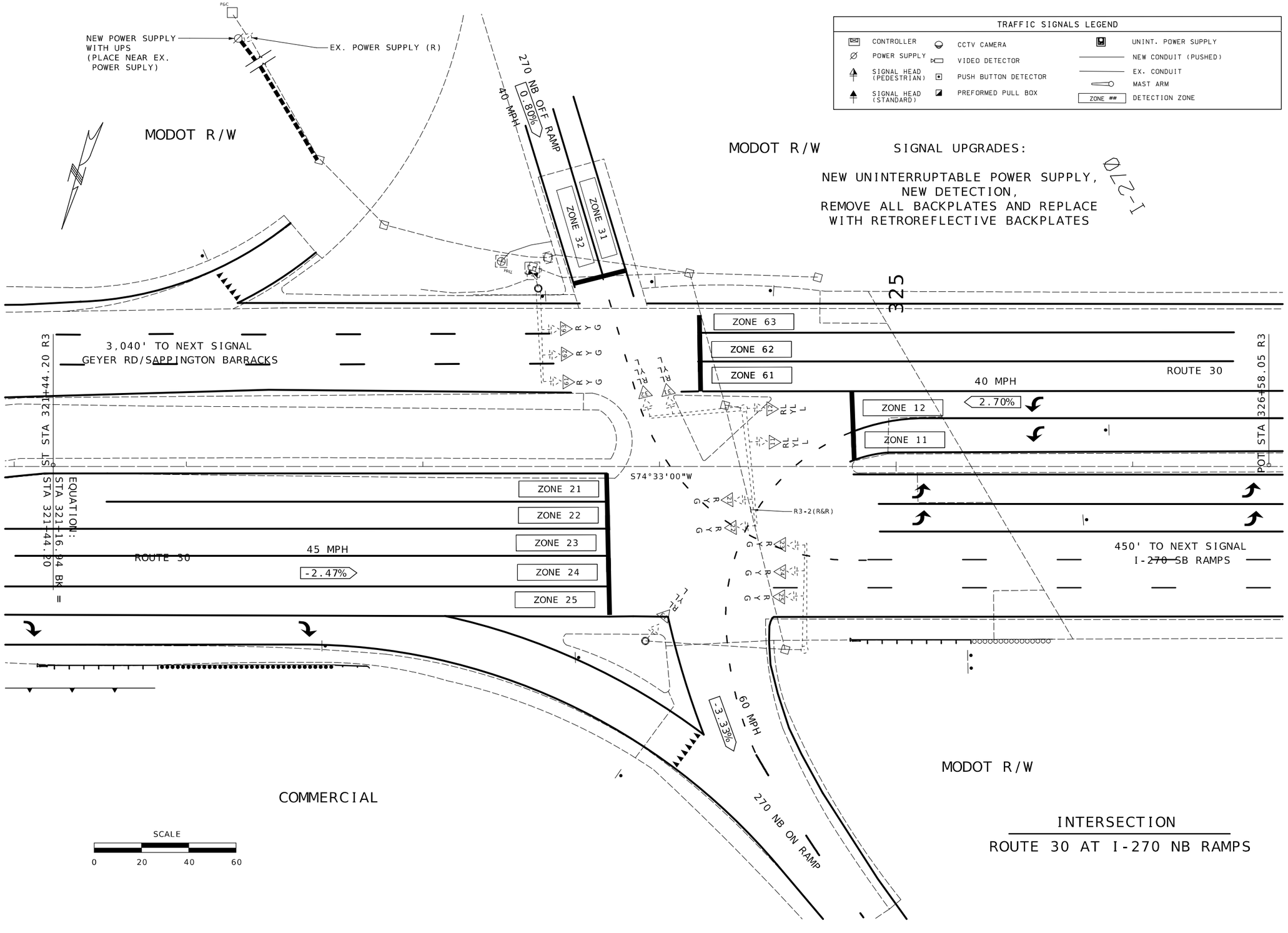
BRIDGE NO.:

DESCRIPTION

DATE

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

SIGNAL QUANTITY SHEET
GEYER RD



INTERSECTION

ROUTE 30 AT I-270 NB RAMPS

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08:22:2025 1:47:44 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/21/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	97

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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 PLAN SHEET
I-270 NB RAMPS

CONDUIT

FROM	TO	CTR TO CTR DISTANCE	TRENCHED 2"	TRENCHED 3"	PUSHED 3"
SOURCE	PS/LT/CTRL	20^	(28)		
U.P.S.	PB1	260	260		
SUBTOTAL			260		
TOTAL			260		

CABLE

FROM	TO	CTR TO CTR DISTANCE	POWER 1c-#2	POWER 1c-#8	CONTROL ⬡ 2c-#16	CONTROL ▽ 5c-#16	CONTROL 7c-#16	CONTROL 2c-#12	REMARKS
SOURCE ∅	PS/LT/CTRL	20^	(189)						(63X3) INCLUDED IN COST OF PS
U.P.S.	CONTR.	399		1263					3x421'
				64					INCLUDE 5% FOR SNAKING
				1330					
				1330					

^CENTER TO CENTER DISTANCE FROM UTILITY TO POWER SUPPLY MAY NOT BE ACCURATE (INCLUDED IN COST OF PS)

RETROREFLECTIVE BACKPLATES

	LENSES		
NOTE: LENSE NUMBERS FOR INFORMATION ONLY	3	4	5
	13	0	0
TOTAL	13		

DETECTOR SCHEDULE

DETECTOR NUMBER	DETECTOR ZONE	TYPE: AUDIBLE PEDESTRIAN PUSH BUTTON	TYPE: SL DETECTION
21,22,23	W.B. T,T,T		1
61,62,63	E.B. T,T,T		1
24,25	W.B. T,T		1
11,12	E.B. LT,LT		1
31,32	N.B. LT,LT		1
TOTAL			***

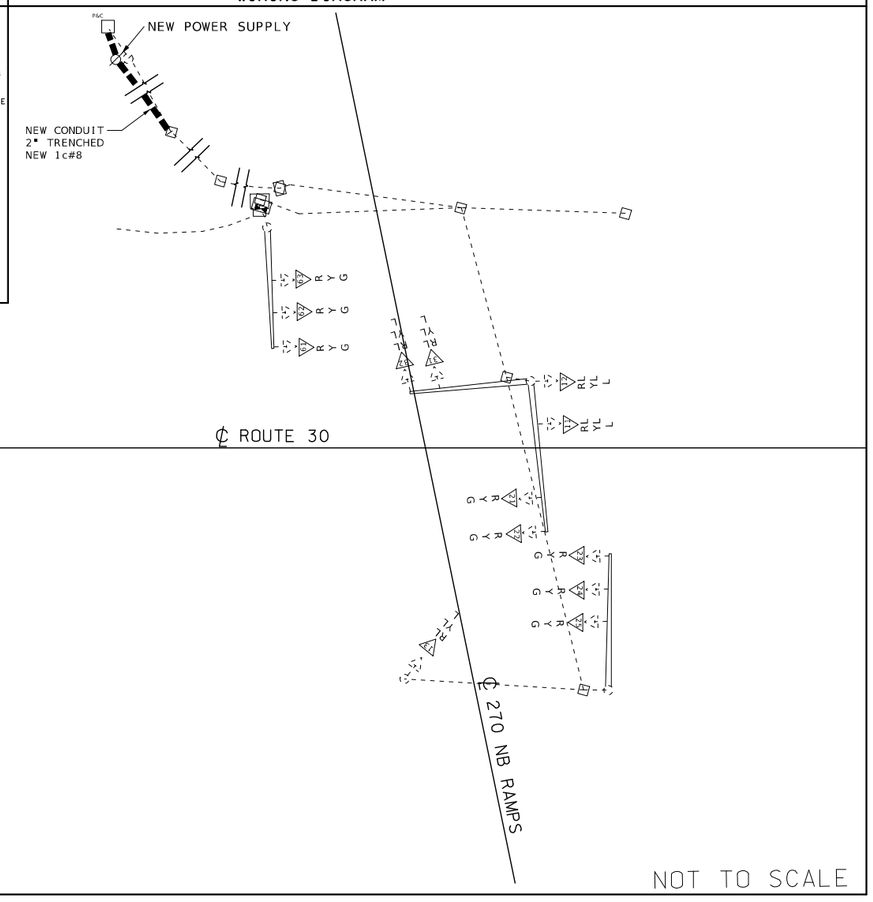
SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
1	R3-2	36X36	9	9	1
			SUBTOTAL	9	1
			PAY TOTAL	9	1

LEGEND

- CONDUIT CONTAINING CABLE WITH SIZE
- EXIST. CONDUIT
- CABLE
- X-Xc — MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
- LIC — #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- DETECTOR WITH NUMBER
- SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SUPPLY

WIRING DIAGRAM



SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM

	DETECTION SYSTEM (EACH)	REMARKS
INTERSECTION TOTAL	1	SEE JOB SPECIAL PROVISIONS

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.

✳ ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

✳✳ SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.

✳✳✳ SEE SL DETECTION SYSTEM TABLE

POWER SUPPLY

LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	POWER SUPPLY ASSEMBLY: DUAL METER PAD MOUNTED COMBINATION SIGNAL/LIGHTING POWER SUPPLY W/UPS	CIRCUIT BREAKER TRIP RATING✳: CONTROLLER: AUXILIARY BREAKER	CIRCUIT BREAKER TRIP RATING✳: CONTROLLER: CONT & SIGNAL LAMPS	CIRCUIT BREAKER TRIP RATING✳: POWER SUPPLY DISCONNECT: MAIN BREAKER: SIGNALS	CIRCUIT BREAKER TRIP RATING✳: POWER SUPPLY DISCONNECT: MAIN BREAKER: LIGHTING	LIGHTING CONTROL ✳ (ON POWER SUPPLY): 120/240 VOLT DUAL METER COMBO PS & LTG	LIGHTING CONTROL ✳ (ON POWER SUPPLY): MAIN BREAKER	SERVICE POLE: CONTRACT FURNISH	SERVICE POLE: UTILITY COMPANY
ROUTE 30 EB	***	***	1	15 Amps	15 Amps	100 Amps	100 Amps	1	15 Amps	Cl. Ft.	
				Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

*** LOCATION IS TOO FAR OFF OF CENTERLINE TO GET AN ACCURATE STATION/OFFSET BECAUSE NO SURVEY WAS TAKEN OF THE EX. POWER SUPPLY LOCATION. PLACE THE NEW POWER SUPPLY IN A LOCATION NEAR TO THE EX. POWER SUPPLY

DISCLAIMER

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I-270 NB RAMPS @ ROUTE 30

INTERSECTION

D-37 COMBINED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 1:48:12 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/21/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	98

COUNTY: ST. LOUIS

JOB NO.: JSL0081

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 QUANTITY SHEET
I-270 NB RAMPS

SIGNAL UPGRADES:

NEW U.P.S.
NEW CABINET,
NEW DETECTION,
REMOVE ALL BACKPLATES AND REPLACE
WITH RETROREFLECTIVE BACKPLATES
NEW CCTV CAMERA

TRAFFIC SIGNALS LEGEND			
CONTROLLER	CCTV CAMERA	UNINT. POWER SUPPLY	
POWER SUPPLY	VIDEO DETECTOR	NEW CONDUIT (PUSHED)	
SIGNAL HEAD (PEDESTRIAN)	PUSH BUTTON DETECTOR	EX. CONDUIT	
SIGNAL HEAD (STANDARD)	PREFORMED PULL BOX	MAST ARM	
		ZONE ## DETECTION ZONE	

MODOT R/W

I-270 SB ON RAMP
0.87%
60 MPH

EX. SIGNAL CABINET (R)

NEW SIGNAL CABINET
(UIP EX. CONTROLLER
INTO NEW CABINET)
STA. 329+56.7
OFFSET 108' LT

NEW U.P.S. HERE
(SPLICE INTO EXISTING POWER
CABLE AND CONDUIT)
STA. 329+94.6
OFFSET 99' LT

PARKING

330

EX. POWER SUPPLY
(SHARED WITH
WEBER HILL RD)

R&REPLACE EXISTING CCTV CAMERA
AND CABLE (POLE IS UIP)

450' TO NEXT SIGNAL
I-270 NB RAMPS

ZONE 65
ZONE 64
ZONE 63
ZONE 62
ZONE 61

ROUTE 30

40 MPH
2.50%

R3-2(R&R)

R10-11a(R&R)
R10-11a(R&R)

ZONE 52
ZONE 51

ROUTE 30
45 MPH
-3.08%

ZONE 21
ZONE 22
ZONE 23

300' TO NEXT SIGNAL
WEBER HILL RD

ZONE 71
ZONE 72
ZONE 72

270 SB OFF RAMP
40 MPH
-3.62%

I-270

MODOT R/W

MODOT R/W

SCALE
0 20 40 60

INTERSECTION
ROUTE 30 AT I-270 SB RAMPS

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 1:48:21 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/21/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	99

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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 PLAN SHEET
I-270 SB RAMPS

CONDUIT

FROM	TO	CTR TO CTR DISTANCE	TRENCHED 2"	TRENCHED 3"	PUSHED 3"
PS	CONTR.	15.9	24		
CONTR.	PB1	19.9		28	
SUBTOTAL			24	28	
TOTAL			24	28	

CABLE

FROM	TO	CTR TO CTR DISTANCE	CAMERA CABLE	CONTROL ⬡ 2c-#16	CONTROL ▽ 5c-#16	CONTROL 7c-#16	CONTROL 2c-#12	REMARKS
CONTR.	CCTV	215	(281)					
								INCLUDE 5% FOR SNAKING
[redacted]								

(INCLUDED IN COST OF CCTV REPLACEMENT)

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
1	R3-2	36x36	9	9	1
2	R10-11a	30X36	7.5	15	2
		SUBTOTAL		24	3
		PAY TOTAL		24	3

DETECTOR SCHEDULE

DETECTOR NUMBER	DETECTOR ZONE	TYPE: AUDIBLE PEDESTRIAN PUSH BUTTON	TYPE: SL DETECTION
21,22,23	W.B. T,T,T		1
61,62,63	E.B. T,T,T		1
51,52	W.B. LT,LT		1
64,65	E.B. T,T		1
71,72	S.B. LT,LT		1
TOTAL			***

LOCATION / BASE

POST NUMBER	PULL BOX NUMBER	LOCATION APPROACH	LOCATION STATION	LOCATION OFFSET	BASE TYPE C	BASE	CONCRETE** (CU. YDS.)
			CONTROLLER	(AS REQ'D)			1.97
					SUBTOTAL		1.97
					PAY TOTAL		2.0

RETROREFLECTIVE BACKPLATES

	LENSES		
NOTE: LENSE NUMBERS FOR INFORMATION ONLY	3	4	5
	15	0	0
TOTAL	15		

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
N/U	Ø2 WB	N/U	N/U	Ø5 WBL	Ø6 EB	Ø7 SB	N/U	N/U	N/U	N/U	N/U	N/U	N/U	N/U	N/U

POWER SUPPLY

LOCATION APPROACH	LOCATION STATION	LOCATION OFFSET	POWER SUPPLY ASSEMBLY: DUAL METER PAD MOUNTED COMBINATION SIGNAL/LIGHTING POWER SUPPLY W/UPS	CIRCUIT BREAKER TRIP RATING*: CONTROLLER AUXILIARY BREAKER	CONT & SIGNAL LAMPS	POWER SUPPLY DISCONNECT MAIN BREAKER SIGNALS	LIGHTING	LIGHTING CONTROL * (ON POWER SUPPLY): 120/240 VOLT DUAL METER COMBO PS & LTG	MAIN BREAKER	SERVICE POLE: CONTRACT FURNISH	UTILITY COMPANY
ROUTE 30 EB	329+94.6	99' LT	***1	15 Amps	15 Amps	100 Amps	100 Amps		15 Amps	CI. Ft.	
				Amps	Amps	Amps	Amps		Amps	CI. Ft.	

***NOTE: ONLY U.P.S. TO BE INSTALLED AT THIS INTERSECTION, UIP EXISTING POWER SUPPLY

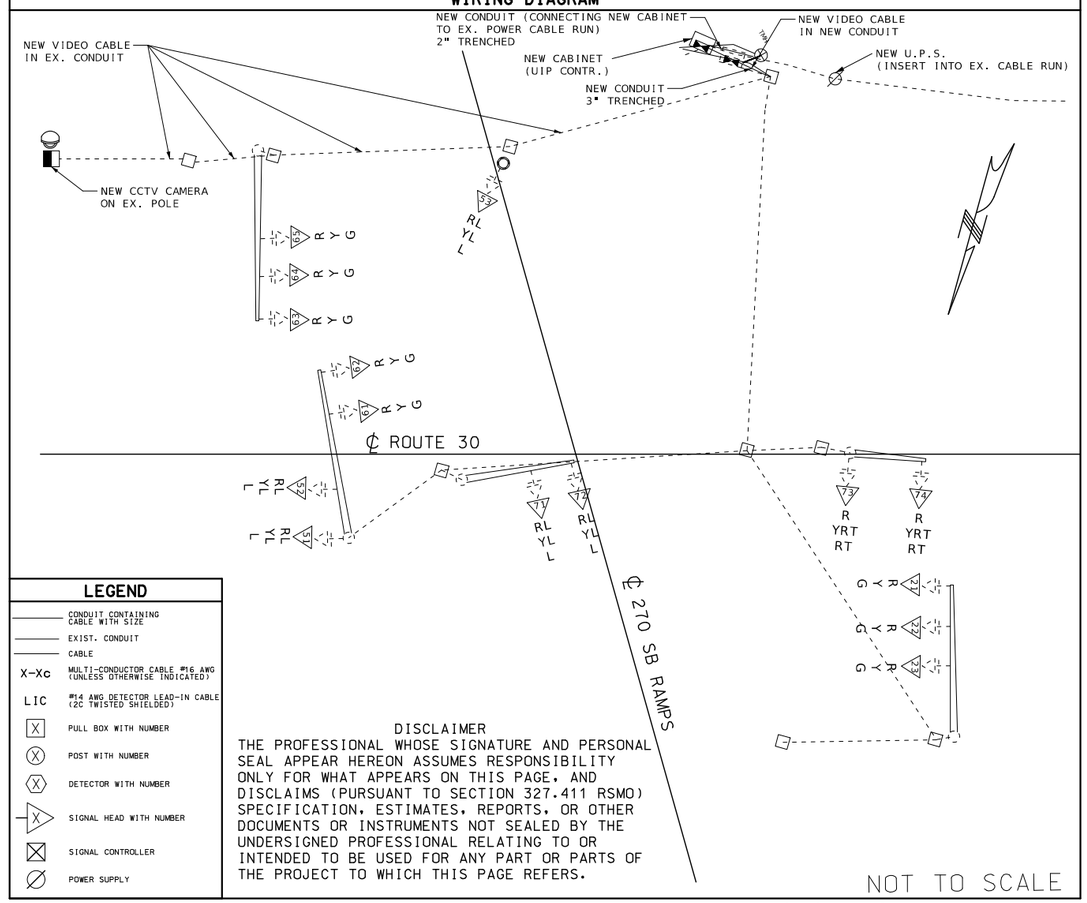
SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM

	DETECTION SYSTEM (EACH)	REMARKS
INTERSECTION TOTAL	1	SEE JOB SPECIAL PROVISIONS

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION APPROACH	LOCATION STATION	LOCATION OFFSET	SYSTEM MASTER (CLOSED LOOP) NEMA	SYSTEM MASTER (CLOSED LOOP) 170	ACTUATED NEMA	ACTUATED 170	ON-OFF* SWITCH TYPE I	ON-OFF* SWITCH TYPE II	COORDINATION INTERFACE * 12C/7C HARDWIRE (1) MASTER	12C/7C HARDWIRE (1) LOCAL	TIME BASE	CLOSED LOOP NEMA	CLOSED LOOP 170	FIBER	TIME * CLOCK	NEMA CABINET TYPE * E	NEMA CABINET TYPE * EV	NEMA CABINET TYPE * DOUBLE	170 CABINET TYPE * 332	170 CABINET TYPE * 336S	170 SOFTWARE * BITRAN	170 SOFTWARE * WAPITI
EB ROUTE 30	329+56.7	108' LT															1					

WIRING DIAGRAM



LEGEND

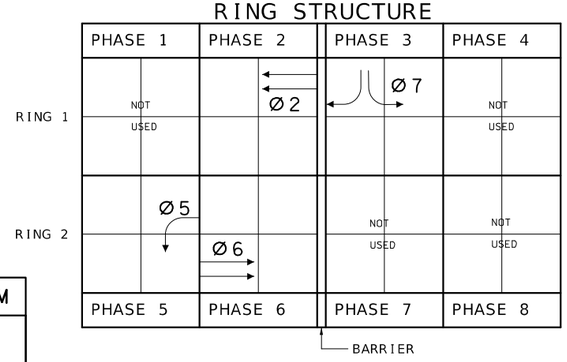
———	CONDUIT CONTAINING CABLE WITH SIZE
———	EXIST. CONDUIT
———	CABLE
X-Xc	MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
LIC	#14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
X	PULL BOX WITH NUMBER
X	POST WITH NUMBER
X	DETECTOR WITH NUMBER
X	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SUPPLY

DISCLAIMER

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NOT TO SCALE

RING STRUCTURE



ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.
** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.
*** SEE SL DETECTION SYSTEM TABLE

I-270 SB RAMPS @ ROUTE 30

INTERSECTION

D-37 COMBINED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
Stuart McNeil
09/30/2025 2:32:28 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/25/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 100
COUNTY: ST. LOUIS
JOB NO.: JSL0081
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 QUANTITY SHEET
I-270 SB RAMPS

TRAFFIC SIGNALS LEGEND

CONTROLLER	CCTV CAMERA	UNINT. POWER SUPPLY	
POWER SUPPLY	VIDEO DETECTOR	NEW CONDUIT (PUSHED)	
SIGNAL HEAD (PEDESTRIAN)	PUSH BUTTON DETECTOR	EX. CONDUIT	
SIGNAL HEAD (STANDARD)	PREFORMED PULL BOX	MAST ARM	
		ZONE ##	DETECTION ZONE

SIGNAL UPGRADES:

NEW CABINET,
NEW CONTROLLER,
NEW DETECTION,
REMOVE ALL BACKPLATES AND REPLACE
WITH RETROREFLECTIVE BACKPLATES

PARKING

NEW CONTROLLER
STA. 332+20
OFFSET 111' LT

EX. SIGNAL
CONTROLLER
AND CABINET (R)

WEBER HIL

ONLY

ONLY

S15°27'00"E

35 MPH

-1.70%

ZONE 82

ZONE 31

335

PARKING

D3-1b(R&R)

300' TO NEXT SIGNAL
I-270 SB RAMPS

ZONE 61

ZONE 62

ZONE 63

ZONE 64

ROUTE 30

40 MPH

3.70%

R3-5R(R&R)

R10-17b(R&R)

R3-6L(R&R)

D3-1(R&R)

ZONE 52

ZONE 51

ZONE 11

ZONE 24

ZONE 23

ZONE 22

ZONE 21

ROUTE 30

45 MPH

-2.50%

D3-1b(R&R)

4,800' TO NEXT SIGNAL
RAHNING RD

MODOT R/W

COMMERCIAL

ZONE 71

ZONE 42

ZONE 41

40 MPH

2.00%

SCALE

0 20 40 60

WEBER HILL RD

INTERSECTION

ROUTE 30 AT WEBER HILL RD

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

08/22/2025 1:48:44 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/21/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	101

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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 PLAN SHEET
WEBER HILL RD

CONDUIT

FROM	TO	CTR TO CTR DISTANCE	TRENCHED 2"	TRENCHED 3"	PUSHED 3"
CONTR.	PB1	9		24	
SUBTOTAL				24	
TOTAL				24	

CABLE

FROM	TO	CTR TO CTR DISTANCE	POWER 1c-#2	POWER 1c-#8	CONTROL 2c-#16	CONTROL 5c-#16	CONTROL 7c-#16	CONTROL 2c-#12	REMARKS
									INCLUDE 5% FOR SNAKING

(INCLUDED IN COST OF PS)

LOCATION / BASE / PULL BOX / POST

POST NUMBER	PULL BOX NUMBER	APPROACH	STATION	OFFSET	BASE TYPE	BASE	CONCRETE** (CU. YDS.)	PULL BOX PREFORMED CLASS 2	PULL BOX PREFORMED CLASS 3	PULL BOX PREFORMED CLASS 5	PULL BOX CONCRETE STANDARD	DRAIN TYPE* I	DRAIN TYPE* II A	DRAIN TYPE* II B	DRAIN TYPE* II C	POST TOP MOUNT POST 8 FT.	POST TOP MOUNT POST 15 FT.	POST STANCHION
			CONTROLLER	(AS REQ'D)			1.97											
					SUBTOTAL		1.97											
					PAY TOTAL		2.0											

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
1	R3-5R	30x36	7.5	7.5	1
1	R3-6L	30x36	7.5	7.5	1
2	D3-1	66x18	8.25	16.5	2
2	D3-1B	96x18	12	24	2
		SUBTOTAL		55.50	6
		PAY TOTAL		55.50	6

DETECTOR SCHEDULE

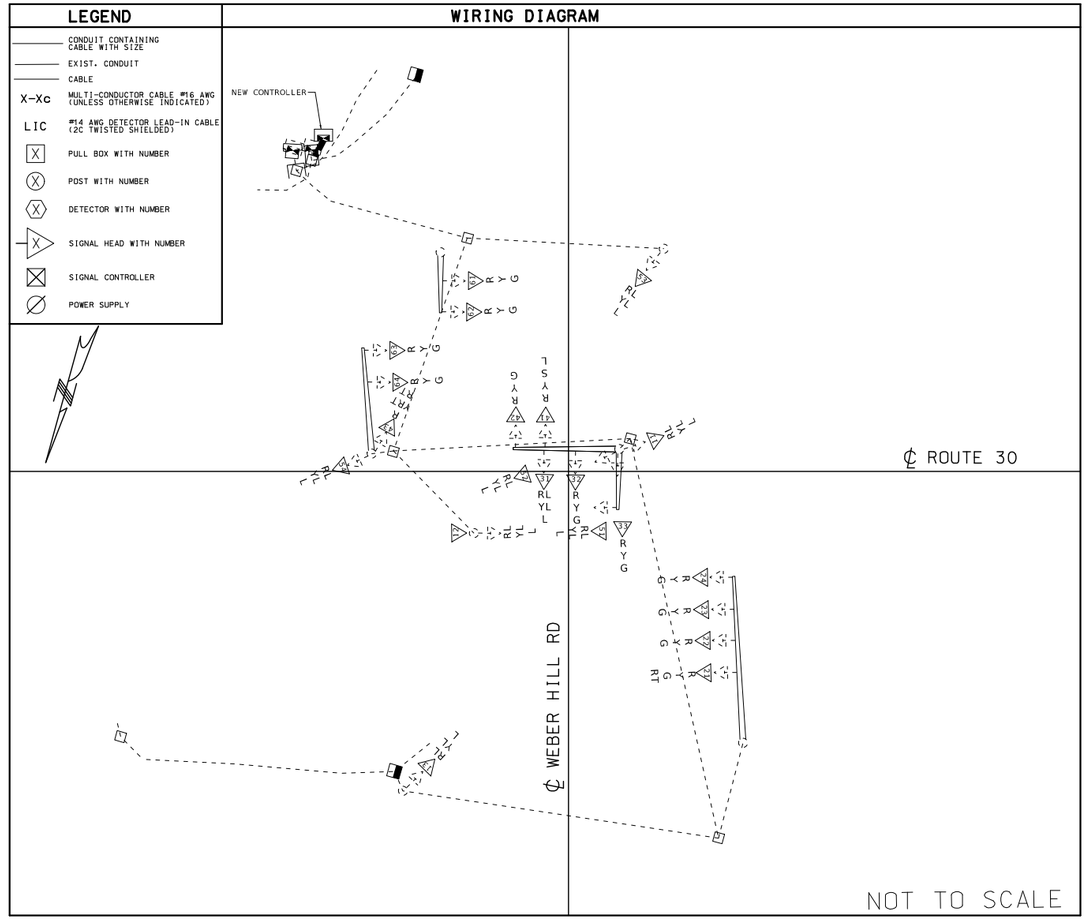
DETECTOR NUMBER	DETECTOR ZONE	TYPE: AUDIBLE PEDESTRIAN PUSH BUTTON	TYPE: SL DETECTION
11	E.B. LT		1
51,52	W.B. LT,LT		1
61,62,63,64	E.B. T,T,T,T		1
21,22,23,24	W.B. T,T,T,T		1
31,32,33	S.B. LT,T,RT		1
41,42,43	N.B. LT/T,RT		1
TOTAL			***

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.
* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.
** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.
*** SEE SL DETECTION SYSTEM TABLE

LEGEND

- CONDUIT CONTAINING CABLE WITH SIZE
- EXIST. CONDUIT
- CABLE
- X-Xc MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
- LIC #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- DETECTOR WITH NUMBER
- SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SUPPLY

WIRING DIAGRAM



SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM

	DETECTION SYSTEM (EACH)	REMARKS
INTERSECTION TOTAL	1	SEE JOB SPECIAL PROVISIONS

DISCLAIMER
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NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Ø1 EB LEFT	Ø2 WB THRU	Ø3 SB THRU	Ø4 NB THRU/LEFT	Ø5 WB LEFT	Ø6 EB THRU	N/U	N/U	OLA FYA ○4+○5	N/U	N/U	N/U	N/U	N/U	N/U	N/U

RETROREFLECTIVE BACKPLATES

	LENSES		
NOTE: LENSE NUMBERS FOR INFORMATION ONLY	3	4	5
	19	2	0
TOTAL	21		

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION: APPROACH	STATION	OFFSET	SYSTEM MASTER (CLOSED LOOP): NEMA	SYSTEM MASTER (CLOSED LOOP): 170	ACTUATED: NEMA	ACTUATED: 170	ON-OFF* SWITCH TYPE: I	ON-OFF* SWITCH TYPE: II	COORDINATION INTERFACE *: 12C/7C HARDWIRE (1) MASTER	12C/7C HARDWIRE (1) LOCAL	TIME BASE	CLOSED LOOP: NEMA	CLOSED LOOP: 170	FIBER	TIME * CLOCK	NEMA CABINET TYPE *: E	NEMA CABINET TYPE *: EV	NEMA CABINET TYPE *: DOUBLE	170 CABINET TYPE *: 332	170 CABINET TYPE *: 336S	170 SOFTWARE *: BITRAN	170 SOFTWARE *: WAPITI
EB ROUTE 30	332+20	111' LT			1									1			1					

WEBER HILL RD @ ROUTE 30
INTERSECTION

D-37 COMBINED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:32:20 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/25/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 102
COUNTY: ST. LOUIS
JOB NO.: JSL0081
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 QUANTITY SHEET
WEBER HILL RD

TRAFFIC SIGNALS LEGEND			
CONTROLLER	CCTV CAMERA	UNINT. POWER SUPPLY	
POWER SUPPLY	VIDEO DETECTOR	NEW CONDUIT (PUSHED)	
SIGNAL HEAD (PEDESTRIAN)	PUSH BUTTON DETECTOR	EX. CONDUIT	
SIGNAL HEAD (STANDARD)	PREFORMED PULL BOX	MAST ARM	
		ZONE ##	DETECTION ZONE

SIGNAL UPGRADES:

UPDATE LEFT TURN SIGNAL/SIGNAGE,
NEW UNINTERRUPTABLE POWER SUPPLY,
NEW DETECTION,
REMOVE ALL NON-RETROREFLECTIVE BACKPLATES
AND REPLACE WITH RETROREFLECTIVE BACKPLATES

RESIDENTIAL

380

RAHNING RD

EX. POWER SUPPLY (R)

NEW POWER SUPPLY
WITH UPS
STA. 382+20.66
131' LT

PRIVATE

0.00%

25 MPH

R10-12(R&R)

D3-1(R&R)

R3-6L(R&R)

EX. SPAN
= 174'

ZONE 41

D3-1b(R&R)

4,800' TO NEXT SIGNAL
WEBER HILL RD

ZONE 22

ZONE 21

50 MPH

ROUTE 30

1.25%

REMOVE LEFT TURN SIGNS
CHANGE R INDICATION TO RL

ZONE 11

R3-5L(R&R)

R10-10(R)

EX. SPAN
= 185'

55 MPH

ROUTE 30

-1.11%

ZONE 61

ZONE 62

ZONE 51

REMOVE LEFT TURN SIGNS
CHANGE R INDICATION TO RL

R10-10(R)

R3-5L(R&R)

EX. SPAN
= 173'

13,700' TO NEXT SIGNAL
GRAVOIS BLUFFS BLVD

D3-1b(R&R)

EX. SPAN
= 181'

ZONE 81

R3-6L(R&R)

D3-1(R&R)

R10-12(R&R)

MAURER INDUSTRIAL DR

0.00%

25 MPH

PRIVATE

COMMERCIAL

NOTE:
DILEMMA ZONE DETECTORS SHOULD
BE LOCATED AT 370 FT AND 590 FT
BACK FROM THE STOP BAR FOR EB RTE 30
AND 405 FT AND 645 FT BACK FROM THE
STOP BAR FOR WB RTE 30

SCALE
0 20 40 60

INTERSECTION
ROUTE 30 AT RAHNING RD

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 1:49:03 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/21/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	103

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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 PLAN SHEET
RAHNING RD

CONDUIT

FROM	TO	CTR TO CTR DISTANCE	TRENCHED 2"	TRENCHED 3"	PUSHED 3"
SOURCE	PS/LT/CTRL	17.4	(26)		
U.P.S.	PB1	16.5	15.5		
SUBTOTAL			15.5		
TOTAL			15.5		

CABLE

FROM	TO	CTR TO CTR DISTANCE	POWER 1c-#2	POWER 1c-#8	CONTROL 2c-#16	CONTROL 5c-#16	CONTROL 7c-#16	CONTROL 2c-#12	REMARKS
SOURCE ⌀	PS/LT/CTRL	17.4	(183)						(61X3) INCLUDE IN COST OF PS
U.P.S.	CONTR.	169		573					3x191'
				29					INCLUDE 5% FOR SNAKING
				602					
				600					

(INCLUDED IN COST OF PS)

SIGNAL HEAD INDICATION

DETECTOR NUMBER	FACE NUMBER	INSTALL LED RED LEFT ARROW
	11	1
	51	1
SUBTOTAL		2
TOTAL		2

NOTE: RED LEFT ARROW LED QUANTITY INCLUDES "LEFT TURN SIGNAL" SIGN REMOVAL

DETECTOR SCHEDULE

DETECTOR NUMBER	DETECTOR ZONE	TYPE: AUDIBLE PEDESTRIAN PUSH BUTTON	TYPE: SL DETECTION
21,22,51	E.B. T,T,LT		1
61,62,11	W.B. T,T,LT		1
81,82,83	S.B. LT/T		1
41,42,43	N.B. LT/T		1
TOTAL			***

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
2	R3-5L	30x36	7.5	15	2
2	R3-6L	30x36	7.5	15	2
2	R10-12	30x36	7.5	15	2
2	D3-1	66x18	8.25	16.5	2
2	D3-1B	90x18	11.25	22.5	2
			SUBTOTAL	84.00	10
			PAY TOTAL	84.00	10

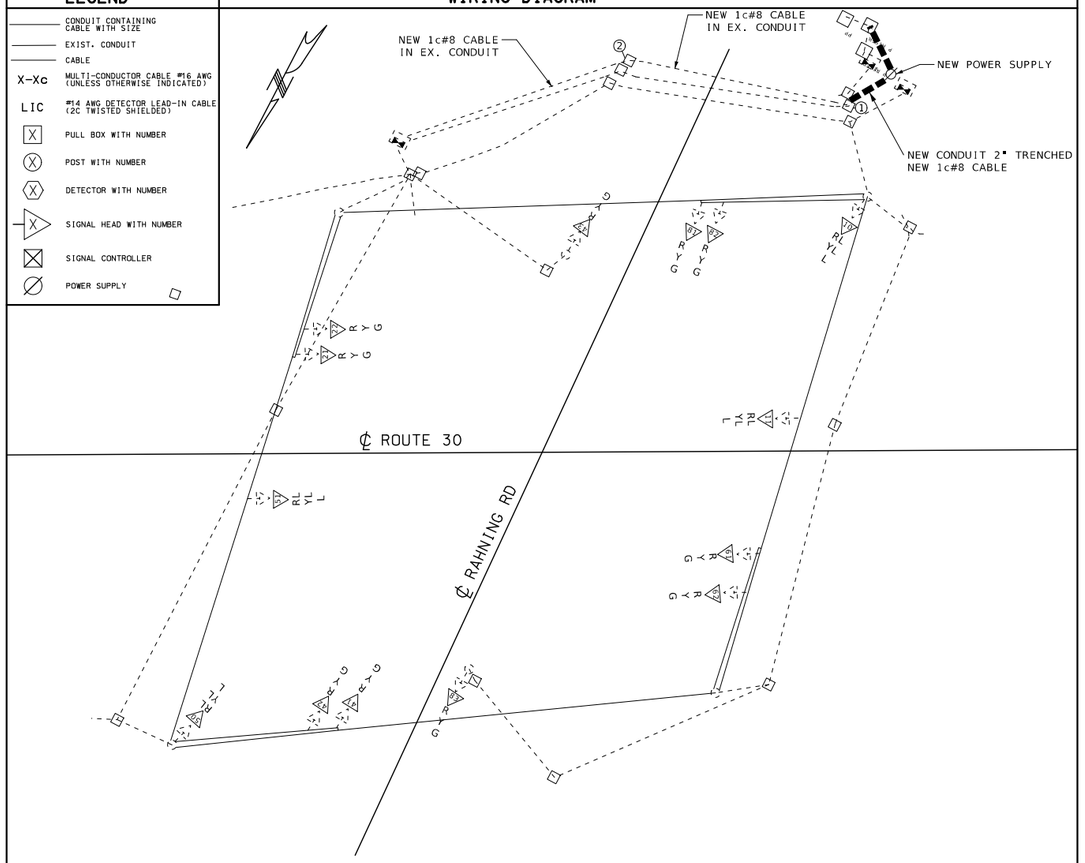
RETROREFLECTIVE BACKPLATES

	LENSES 3	LENSES 4	LENSES 5
NOTE: LENSE NUMBERS FOR INFORMATION ONLY	10	0	0
TOTAL	10		

LEGEND

- CONDUIT CONTAINING CABLE WITH SIZE
- EXIST. CONDUIT
- CABLE
- X-Xc MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
- LIC #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- DETECTOR WITH NUMBER
- SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SUPPLY

WIRING DIAGRAM



SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM

	DETECTION SYSTEM (EACH)	REMARKS
INTERSECTION TOTAL	1	SEE JOB SPECIAL PROVISIONS

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.
* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.
** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.
*** SEE SL DETECTION SYSTEM TABLE

POWER SUPPLY

LOCATION: APPROACH	STATION	OFFSET	POWER SUPPLY ASSEMBLY: DUAL METER PAD MOUNTED COMBINATION SIGNAL/LIGHTING POWER SUPPLY W/UPS	CIRCUIT BREAKER TRIP RATING*: CONTROLLER AUXILIARY BREAKER	CONTROLLER CONT & SIGNAL LAMPS	POWER SUPPLY DISCONNECT MAIN BREAKER SIGNALS	POWER SUPPLY DISCONNECT MAIN BREAKER LIGHTING	LIGHTING CONTROL * (ON POWER SUPPLY): 120/240 VOLT DUAL METER COMBO PS & LTG	LIGHTING CONTROL * (ON POWER SUPPLY): MAIN BREAKER	SERVICE POLE: CONTRACT FURNISH	SERVICE POLE: UTILITY COMPANY
ROUTE 30 EB	382+20.66	131' LT	1	15 Amps	15 Amps	100 Amps	100 Amps	1	15 Amps	Cl. Ft.	
				Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

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RAHNING RD @ ROUTE 30
INTERSECTION

D-37 COMBINED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 1:49:13 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED 8/21/2025
ROUTE 30 | STATE MO
DISTRICT SL | SHEET NO. 104
COUNTY ST. LOUIS
JOB NO. JSL0081
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 QUANTITY SHEET
RAHNING RD

TRAFFIC SIGNALS LEGEND

CONTROLLER	CCTV CAMERA	UNINT. POWER SUPPLY
POWER SUPPLY	VIDEO DETECTOR	NEW CONDUIT (PUSHED)
SIGNAL HEAD (PEDESTRIAN)	PUSH BUTTON DETECTOR	EX. CONDUIT
SIGNAL HEAD (STANDARD)	PREFORMED PULL BOX	MAST ARM
		ZONE ## DETECTION ZONE

SIGNAL UPGRADES:

UPDATE LEFT TURN SIGNAL/SIGNAGE,
NEW SIGNAL CONTROLLER,
NEW DETECTION
REMOVE ALL NON-RETROREFLECTIVE BACKPLATES
AND REPLACE WITH RETROREFLECTIVE BACKPLATES

RESIDENTIAL

PRIVATE

GRAVOIS BLUFFS BLVD
5-4%
30 MPH

ZONE 31
ZONE 30
ZONE 81
ZONE 51
ZONE 52
ZONE 22
ZONE 21
ZONE 23
ZONE 24
ZONE 53
ZONE 42
ZONE 41
ZONE 70
ZONE 71

REMOVE LEFT TURN SIGNS
UIP EXIST. CCT
D3-1b(R&R)
R3-2(R&R)
D3-1(R&R)

13,700' TO NEXT SIGNAL
RAHNING RD

520
55 MPH
0.00%
ROUTE 30

0.00%
55 MPH
ROUTE 30

1,650' TO NEXT SIGNAL
NORTHWEST BLVD

NOTE:
DILEMMA ZONE DETECTORS SHOULD BE
LOCATED AT 405 FT AND 645 FT BACK FROM
THE STOP BAR FOR RTE 30 IN BOTH DIRECTIONS

COMMERCIAL

RESIDENTIAL

EX. CONTROLLER (R)
UIP CABINET AND CONCRETE BASE

NEW CONTROLLER
(UIP CABINET AND BASE)
STA. 518+91.9
OFFSET 130' RT

SUMMIT RD
30 MPH
2.0%

SCALE
0 20 40 60

INTERSECTION

ROUTE 30 AT GRAVOIS BLUFFS BLVD

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 1:49:23 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/21/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	105

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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 PLAN SHEET
GRAVOIS BLUFFS BLVD/SUMMIT RD

FACE NUMBER	SIGNAL HEAD INDICATION	INSTALL LED RED LEFT ARROW
51,52		2
53,54		2
70,71,72		3
30,31,32		3
	SUBTOTAL	10
	TOTAL	10

NOTE: RED LEFT ARROW LED QUANTITY INCLUDES "LEFT TURN SIGNAL" SIGN REMOVAL

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
2	R3-2	24X24	4	8	2
2	D3-1	66x18	8.25	16.5	2
2	D3-1B	84x18	10.5	21	2
			SUBTOTAL	45.50	6
			PAY TOTAL	45.50	6

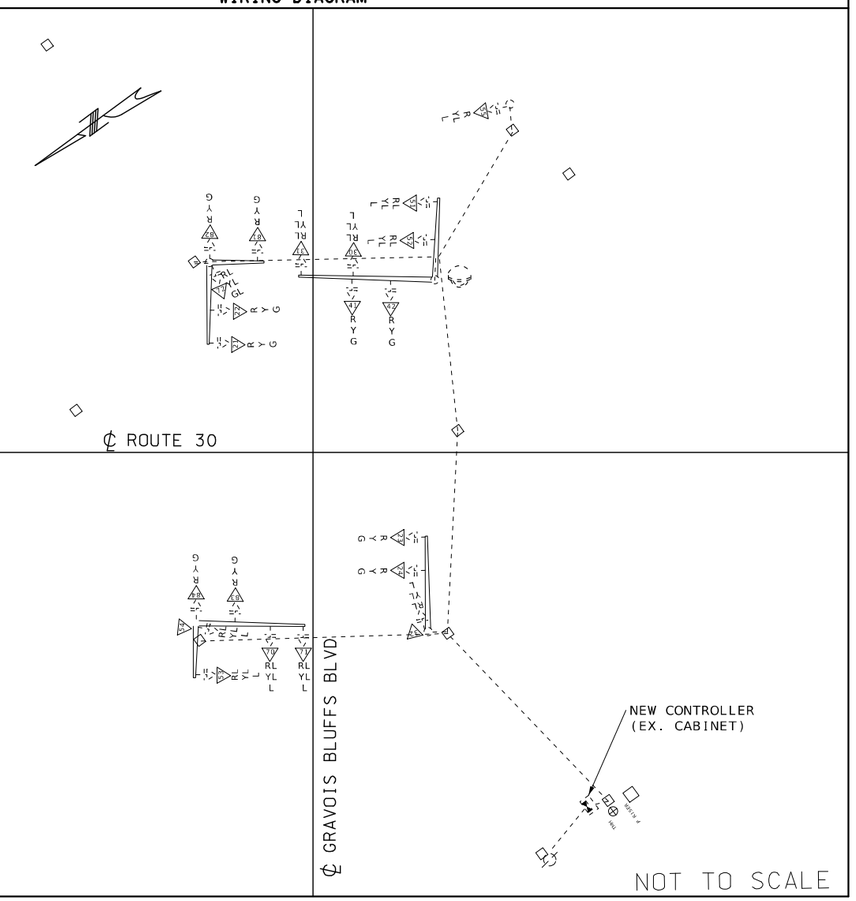
DETECTOR SCHEDULE

DETECTOR NUMBER	DETECTOR ZONE	TYPE: AUDIBLE PEDESTRIAN PUSH BUTTON	TYPE: SL DETECTION
21,22	E.B. T,T		1
53	E.B. LT		1
23,24	W.B. T,T		1
51,52	W.B. LT,LT		1
41,42	S.B. T,T		1
70,71	S.B. LT,LT		1
81	N.B. T		1
30,31	N.B. LT,LT		1
	TOTAL		***

LEGEND

- CONDUIT CONTAINING CABLE WITH SIZE
- EXIST. CONDUIT
- CABLE
- X-Xc — MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
- LIC — #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- DETECTOR WITH NUMBER
- SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SUPPLY

WIRING DIAGRAM



SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM

	DETECTION SYSTEM (EACH)	REMARKS
INTERSECTION TOTAL	1	SEE JOB SPECIAL PROVISIONS

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.
* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.
** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.
*** SEE SL DETECTION SYSTEM TABLE

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CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION: APPROACH	STATION	OFFSET	SYSTEM MASTER (CLOSED LOOP): NEMA	SYSTEM MASTER (CLOSED LOOP): 170	ACTUATED: NEMA	ACTUATED: 170	ON-OFF* SWITCH TYPE: I	ON-OFF* SWITCH TYPE: II	COORDINATION INTERFACE *: 12C/7C HARDWIRE (1): MASTER	12C/7C HARDWIRE (1): LOCAL	TIME BASE	CLOSED LOOP: NEMA	CLOSED LOOP: 170	FIBER	TIME * CLOCK	NEMA CABINET TYPE *: E	NEMA CABINET TYPE *: EV	NEMA CABINET TYPE *: DOUBLE	170 CABINET TYPE *: 332	170 CABINET TYPE *: 336S	170 SOFTWARE *: BITRAN	170 SOFTWARE *: WAPITI
ROUTE 30 WB	518+91.9	130' RT			1									1								

GRAVOIS BLUFFS BLVD @ ROUTE 30
INTERSECTION

D-37 COMBINED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 1:49:33 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/21/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 106
COUNTY: ST. LOUIS
JOB NO.: JSL0081
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

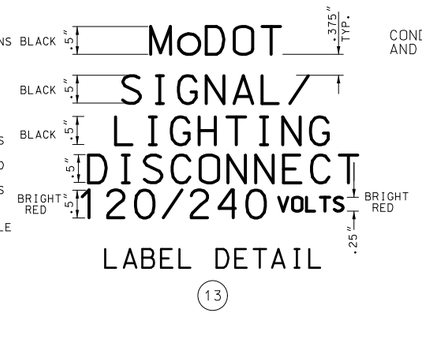
DESCRIPTION | DATE

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

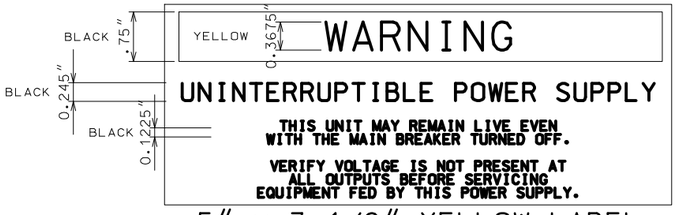
SIGNAL QUANTITY SHEET
GRAVOIS BLUFFS BLVD

GENERAL NOTES:

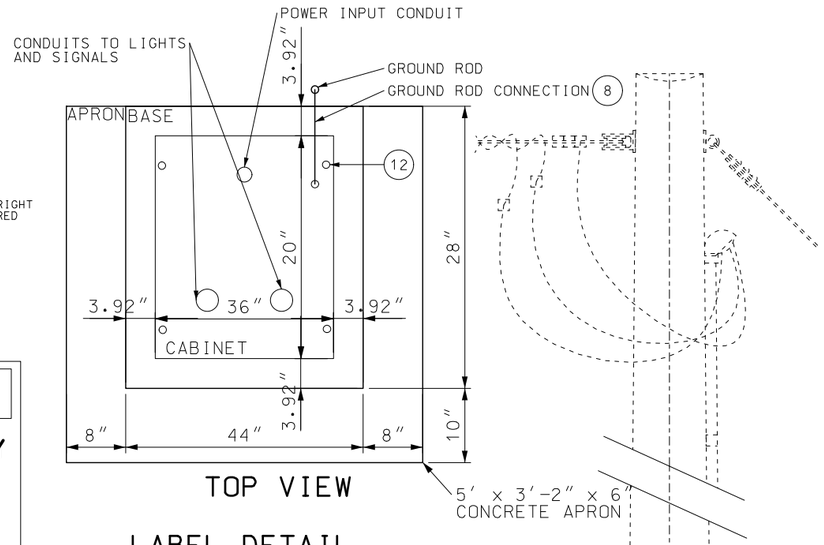
1. ALTERNATE CABINET DIMENSIONS WILL BE ALLOWED AS APPROVED BY THE ENGINEER. INTERIOR CABINET VOLUME SHALL BE EQUAL TO OR GREATER THAN THAT SHOWN ON PLANS AND PROPER CLEARANCES SHALL BE PROVIDED FOR ALL EQUIPMENT. CONCRETE BASE DIMENSIONS SHALL BE MODIFIED TO FIT THE CABINET SUPPLIER.
2. PLACEMENT OF 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.



LABEL DETAIL
(13)

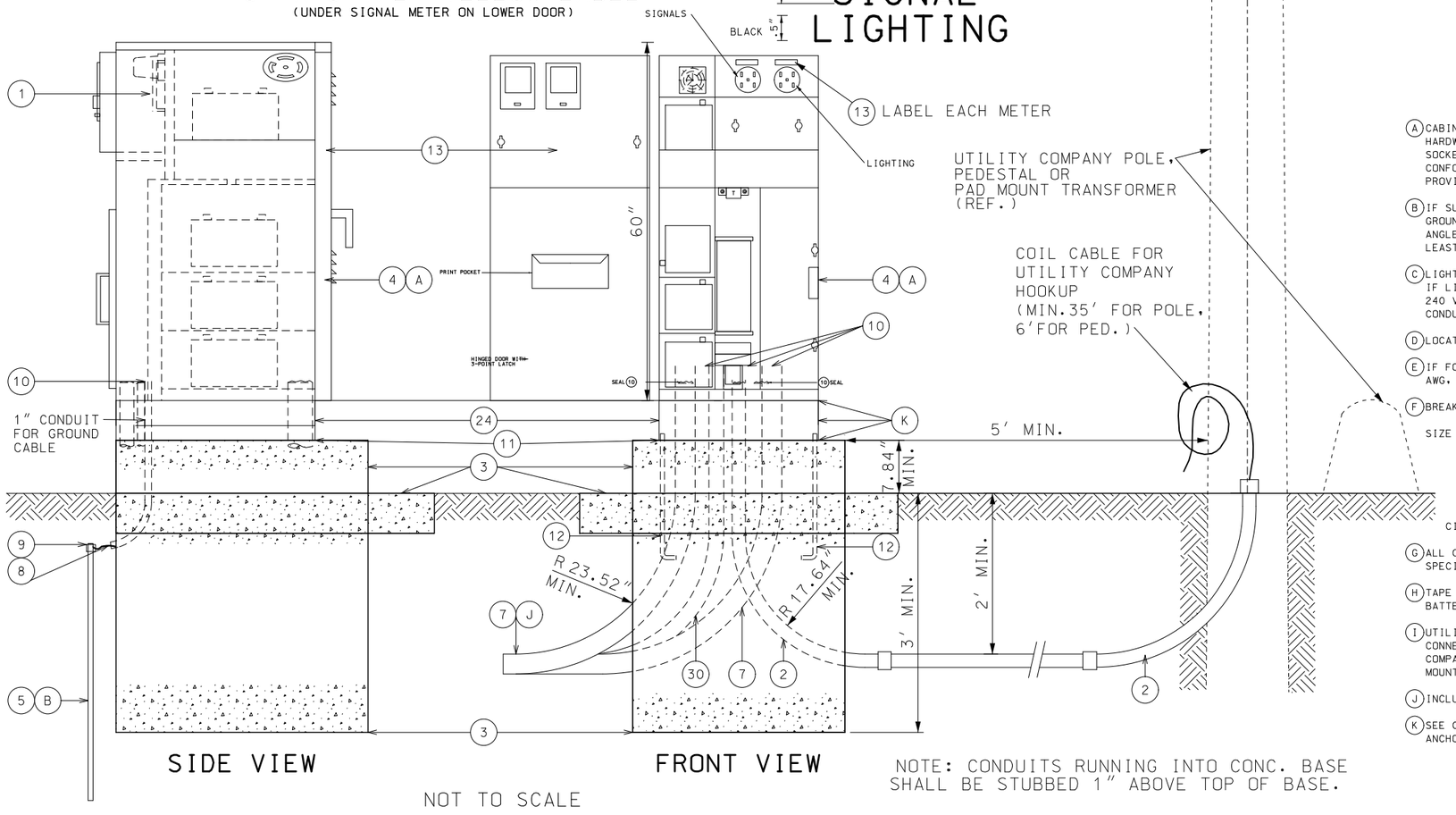


5" x 3 1/2" YELLOW LABEL
(UNDER SIGNAL METER ON LOWER DOOR)



LABEL DETAIL





NOT TO SCALE

NOTE: CONDUITS RUNNING INTO CONC. BASE SHALL BE STUBBED 1" ABOVE TOP OF BASE.

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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 ½" 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.

(F) BREAKER SIZING:

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.

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 2:12:44 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/22/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	107

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

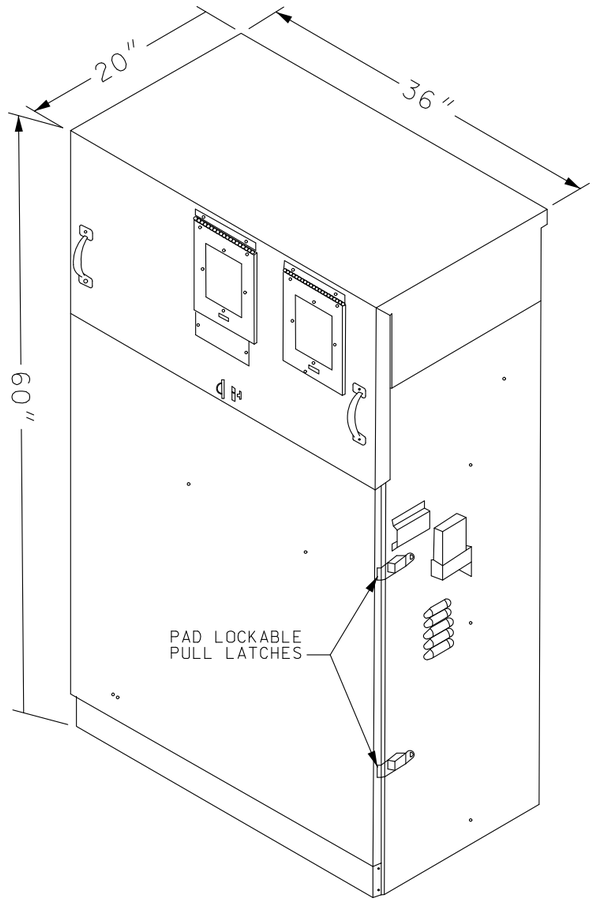
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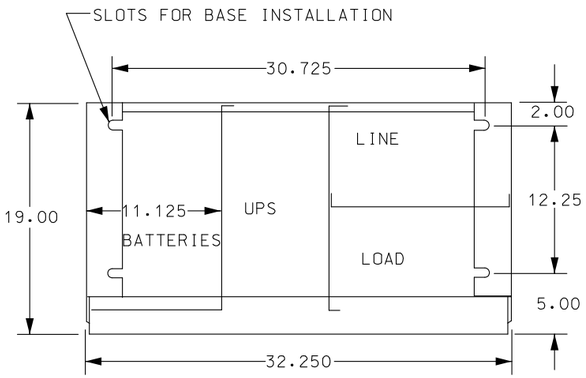
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SIGNAL SHEET
ROUTE 30
POWER SUPPLY

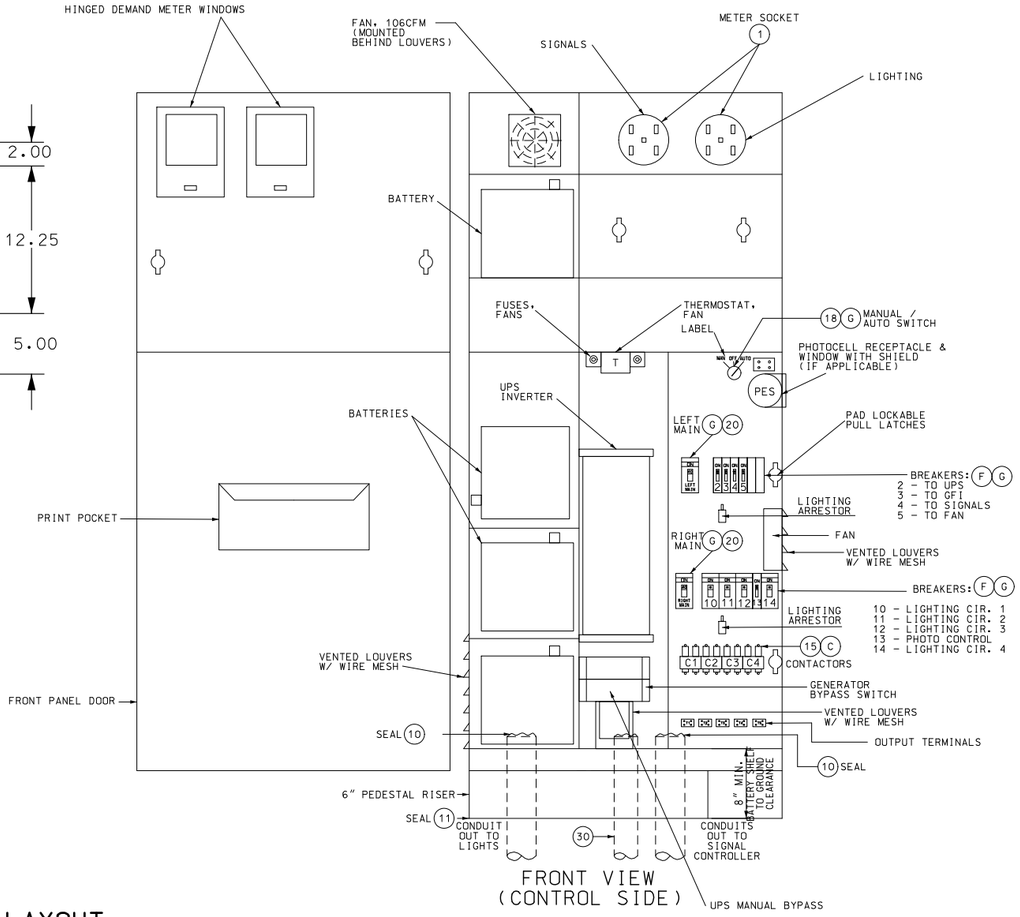




PEDESTAL PLAN VIEW
MOUNTING SLOT DETAIL

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NOTE: WHERE SPACE PROVIDES, UPS SHALL HAVE ADDITIONAL LABELS DENOTING 'LIGHTING' CONTROLS



FRONT VIEW
(CONTROL SIDE)

EQUIPMENT LAYOUT
NOT TO SCALE

NOTE: CONDUITS RUNNING INTO CONC. BASE SHALL BE STUBBED 1" ABOVE TOP OF BASE.

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	26	30A GENERATOR MALE BASE
21	2-POLE, 15 AMP (MIN), TYPE A BREAKERS TO LIGHTING CIRCUITS *	27	INVERTER (1100VA MINIMUM)
22	1-POLE, 15 AMP (MIN.), TYPE A BREAKER TO SIGNALS *	28	1-POLE, 40 AMP, TYPE B UPS BREAKER
23	#2 AWG MIN., 600 V., POWER CABLE *	29	1-POLE, 15 AMP, TYPE B FAN BREAKER
24	6" PEDESTAL RISER	30	1 1/2" CONDUIT OUT TO SIGNAL CABINET (CAT 5E AND CONTROL WIRING)
25	12V GEL CELL BATTERIES IN SERIES (4 MINIMUM)	*	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.

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(F) BREAKER SIZING:

SIZE (AMPS)	240V TOTAL CIRCUIT LOAD (WATTS)	120V TOTAL CIRCUIT LOAD (WATTS)
15	0-2800	0-1390
20	2850-3700	1400-1850
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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.

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

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 2:12:53 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/22/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	108

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

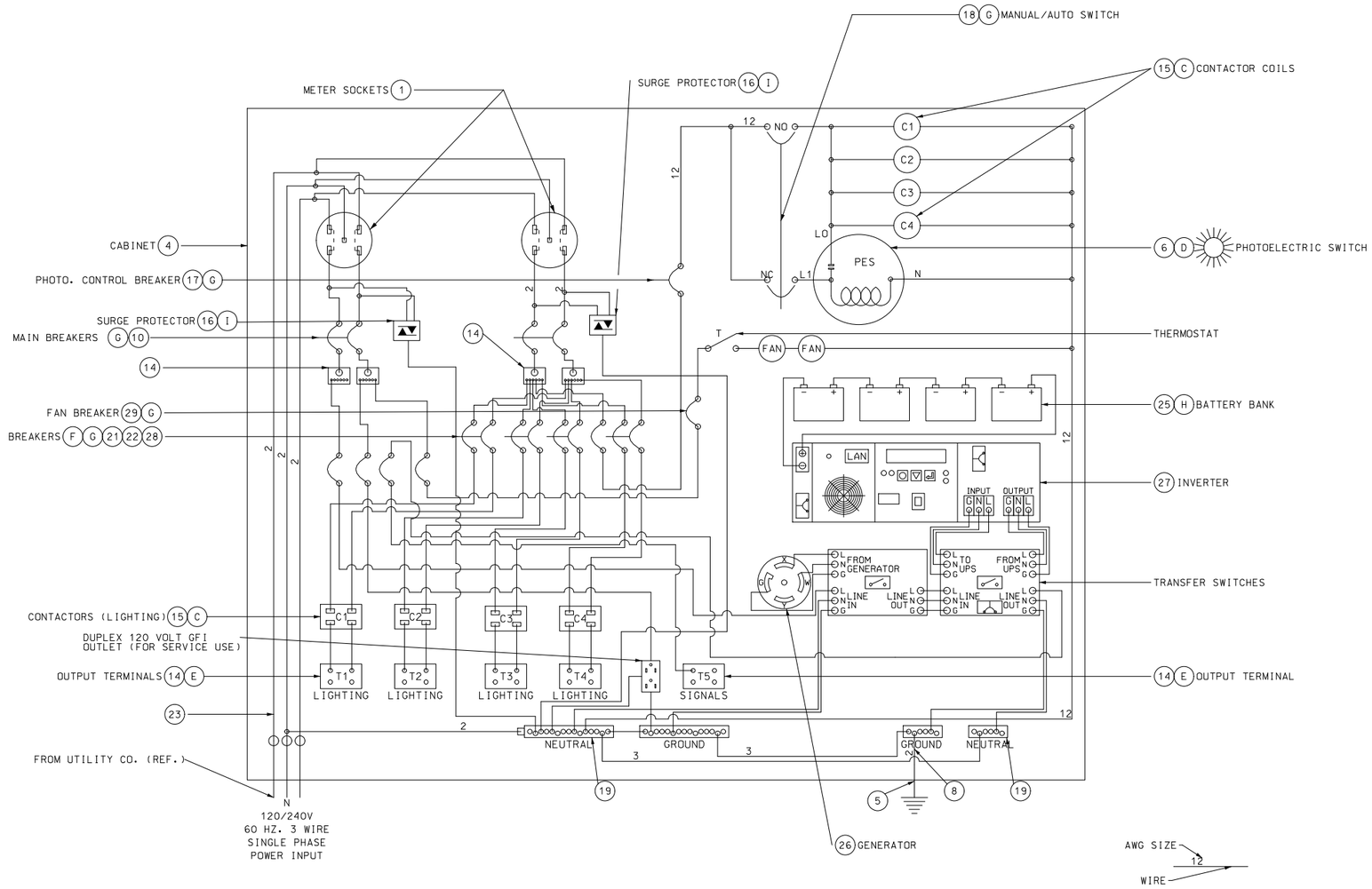
DESCRIPTION	DATE

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

SIGNAL SHEET
ROUTE 30
POWER SUPPLY

DISCLAIMER

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WIRING DIAGRAM

LIST OF MATERIALS	
ITEM	DESCRIPTION
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2	RIGID STEEL CONDUIT, 2" MIN. TO UTILITY CO. FACILITIES
3	CLASS B CONCRETE, 1.3 cu. yd. (MIN.)
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✳	SEE PLANS FOR SIZE

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

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 2:13:01 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/22/2025

ROUTE	STATE
AB	MO
DISTRICT	SHEET NO.
SL	109

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

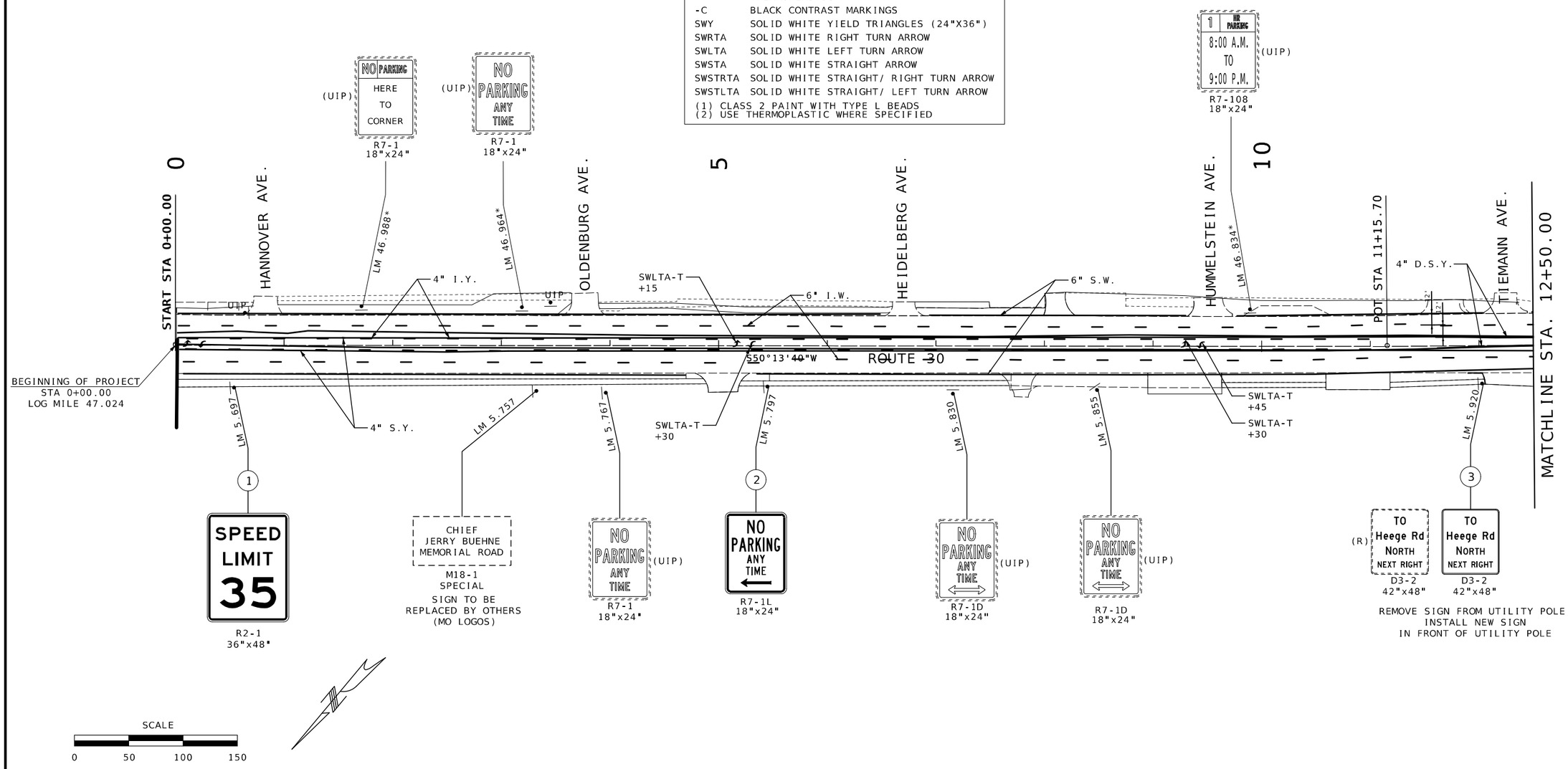
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNAL SHEET
ROUTE 30
POWER SUPPLY

PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED



STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:24:18 PM
STUART ROBINSON McNEIL · CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	110

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

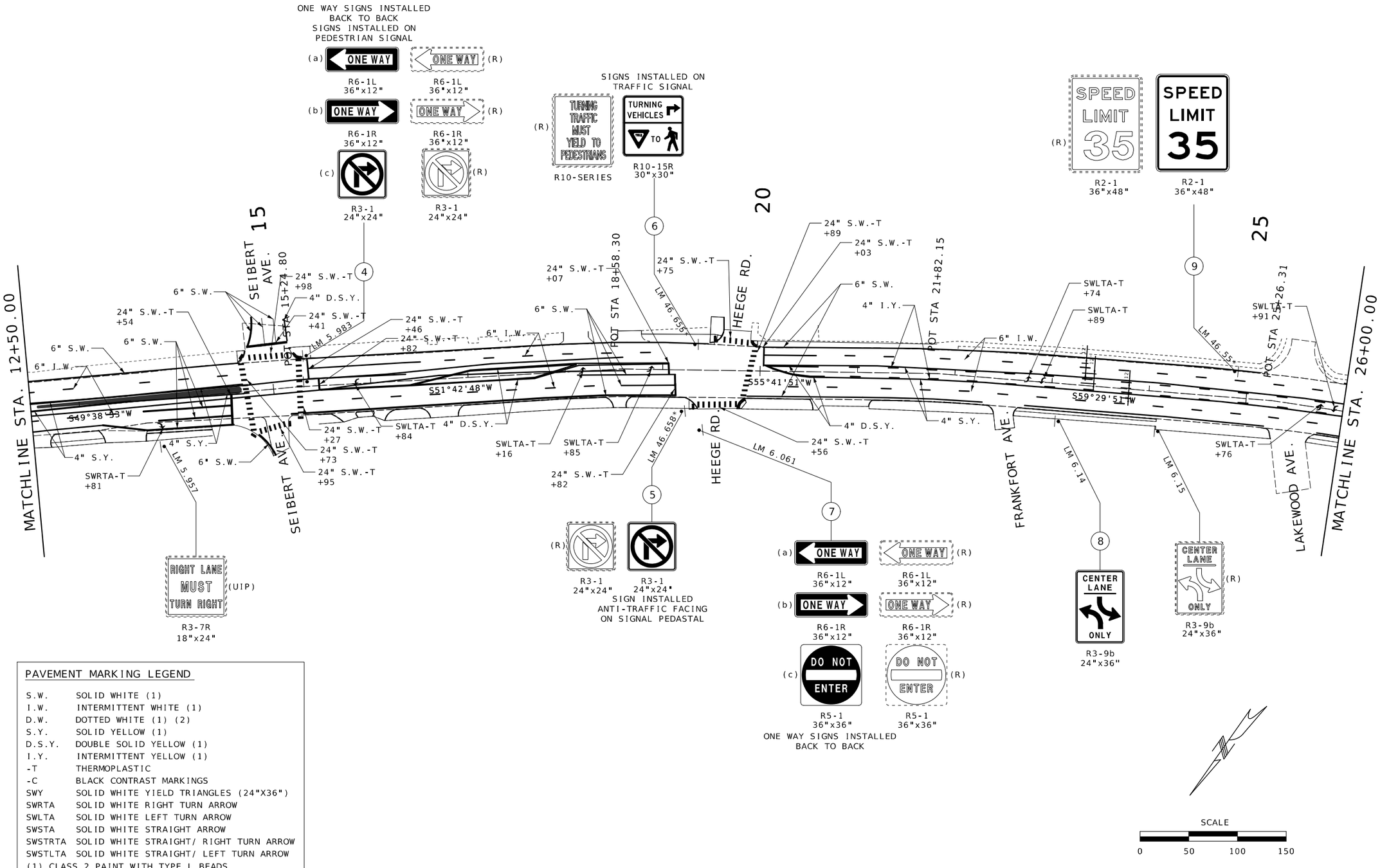
BRIDGE NO.

DESCRIPTION

DATE

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

SIGNING AND
PAVEMENT MARKING PLANS
SHEET 1



PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
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-C	BLACK CONTRAST MARKINGS
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SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:24:33 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/25/2025

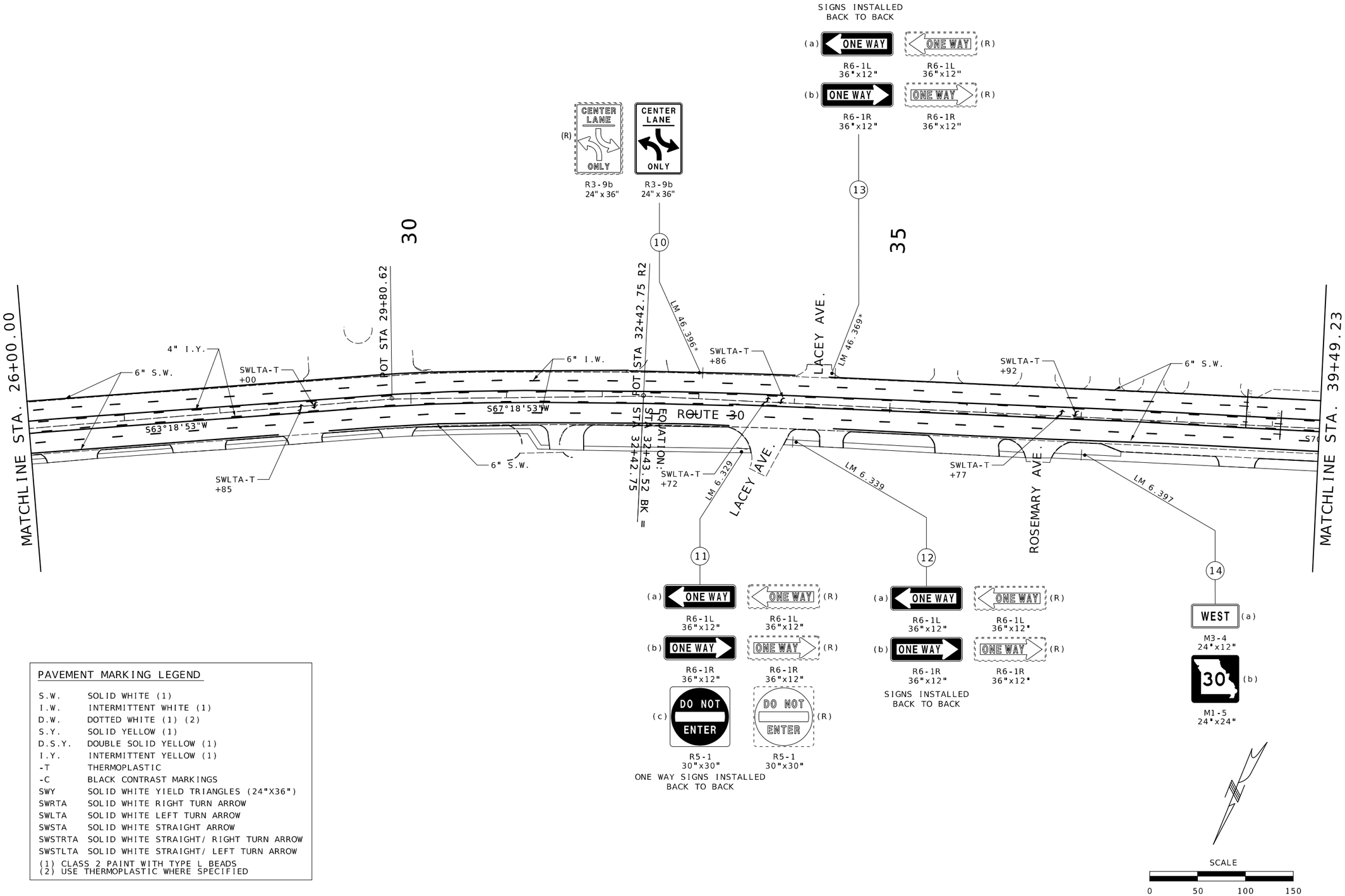
ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	111

COUNTY: ST. LOUIS
JOB NO.: JSL0081
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 AND PAVEMENT MARKING PLANS
SHEET 2



PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:24:44 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	112

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

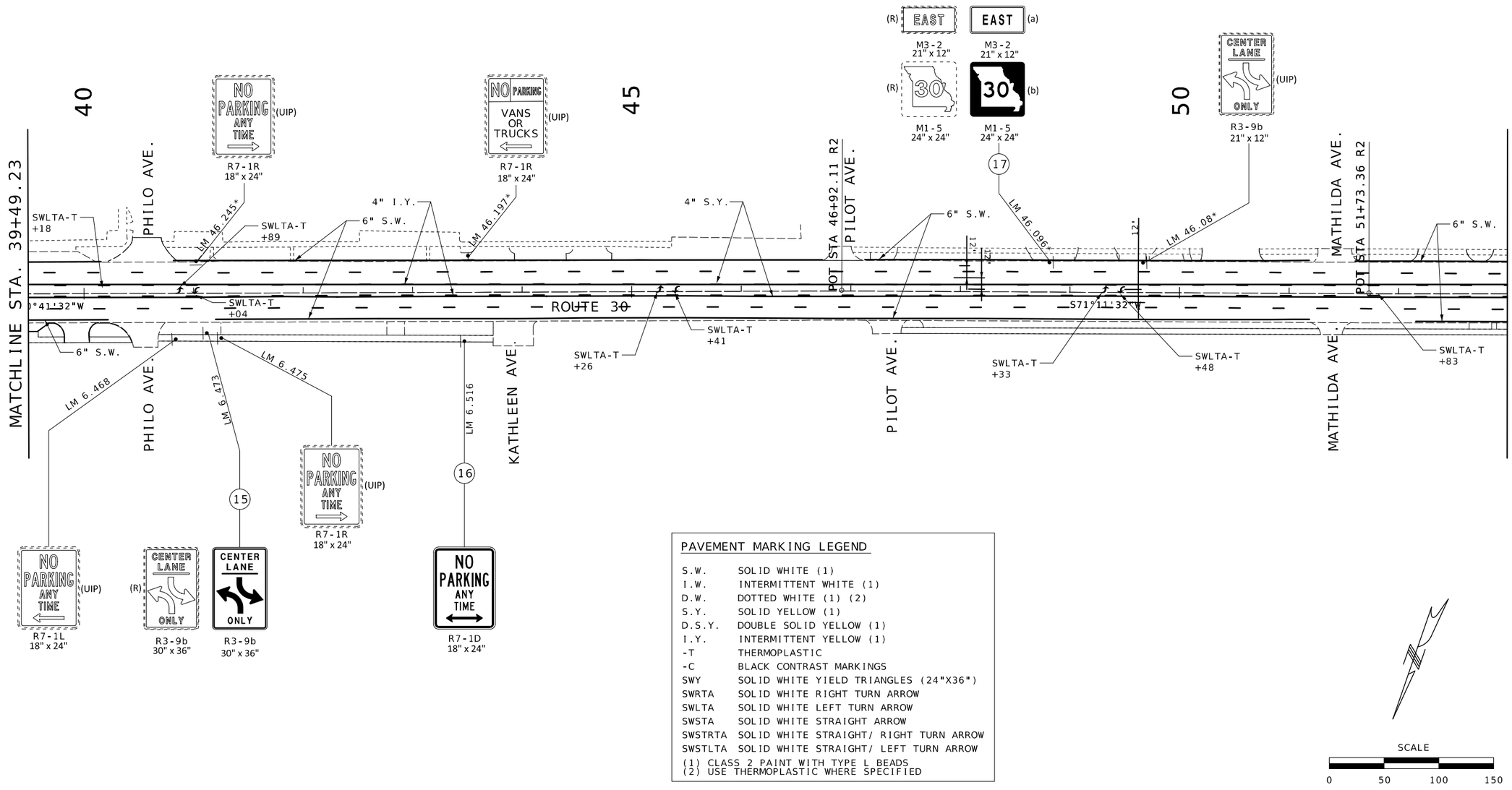
PROJECT NO.

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 AND
PAVEMENT MARKING PLANS
SHEET 3



PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
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-C	BLACK CONTRAST MARKINGS
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SWRTA	SOLID WHITE RIGHT TURN ARROW
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SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

SCALE
0 50 100 150

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:24:11 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	113

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

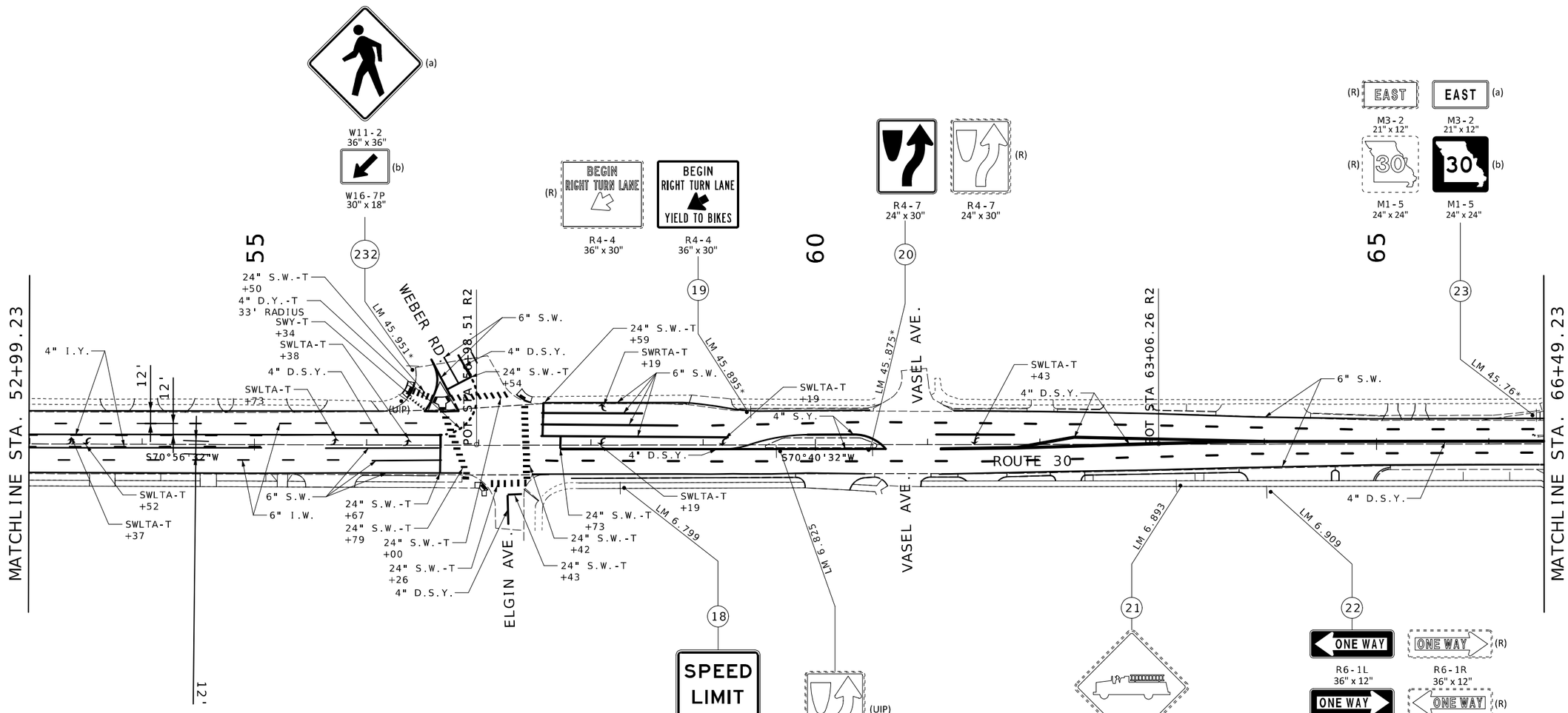
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SIGNING AND
PAVEMENT MARKING PLANS
SHEET 4



PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.Y.	DOTTED YELLOW (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:24:04 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	114

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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 AND
PAVEMENT MARKING PLANS
SHEET 5

SIGNS INSTALLED ON TRAFFIC SIGNAL POST

(a) OVERHEAD SIGN

EMERGENCY SIGNAL — R10-13, 60" x 30"

EMERGENCY SIGNAL (R) — R10-13, 60" x 30"

(b)

EMERGENCY SIGNAL — R10-13, 36" x 24"

EMERGENCY SIGNAL (R) — R10-13, 36" x 24"

SIGN TO BE REPLACED BY OTHERS (MO LOGOS)

CHIEF JERRY BUEHNE MEMORIAL ROAD

M18-1, 72" x 36"

(UIP)

W11-8, 36" x 36"

EMERGENCY SIGNAL AHEAD (UIP)

W11-12P, 30" x 24"

MATCHLINE STA. 66+49.23

24

LM 45.756*

24" S.W.-T +55

6" S.W.

LM 45.712*

24" S.W.-T +27

6" S.W.

NILES PL.

70

75

4" D.S.Y.

LM 45.612*

6" I.W.

6" S.W.

ALTHEA AVE.

4" D.S.Y.

6" S.W.

MATCHLINE STA. 79+99.23

ROUTE 30

S70°42'48"W

24" SW @ 45°

24" SW-T +28

4" D.S.Y.

6" S.W.

WEBER RD.

LM 6.983

SWINTON AVE.

7.195

25

26

SIGNS INSTALLED ON TRAFFIC SIGNAL POST

(a) OVERHEAD SIGN

EMERGENCY SIGNAL — R10-13, 60" x 30"

EMERGENCY SIGNAL (R) — R10-13, 60" x 30"

(b)

EMERGENCY SIGNAL — R10-13, 36" x 24"

EMERGENCY SIGNAL (R) — R10-13, 36" x 24"

(R) JCT — M2-1, 21" x 15"

JCT (a) — M2-1, 21" x 15"

(R) P — M1-5a, 24" x 24"

P (b) — M1-5a, 24" x 24"

PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

SCALE

0 50 100 150

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

09/30/2025 2:23:56 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	115

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

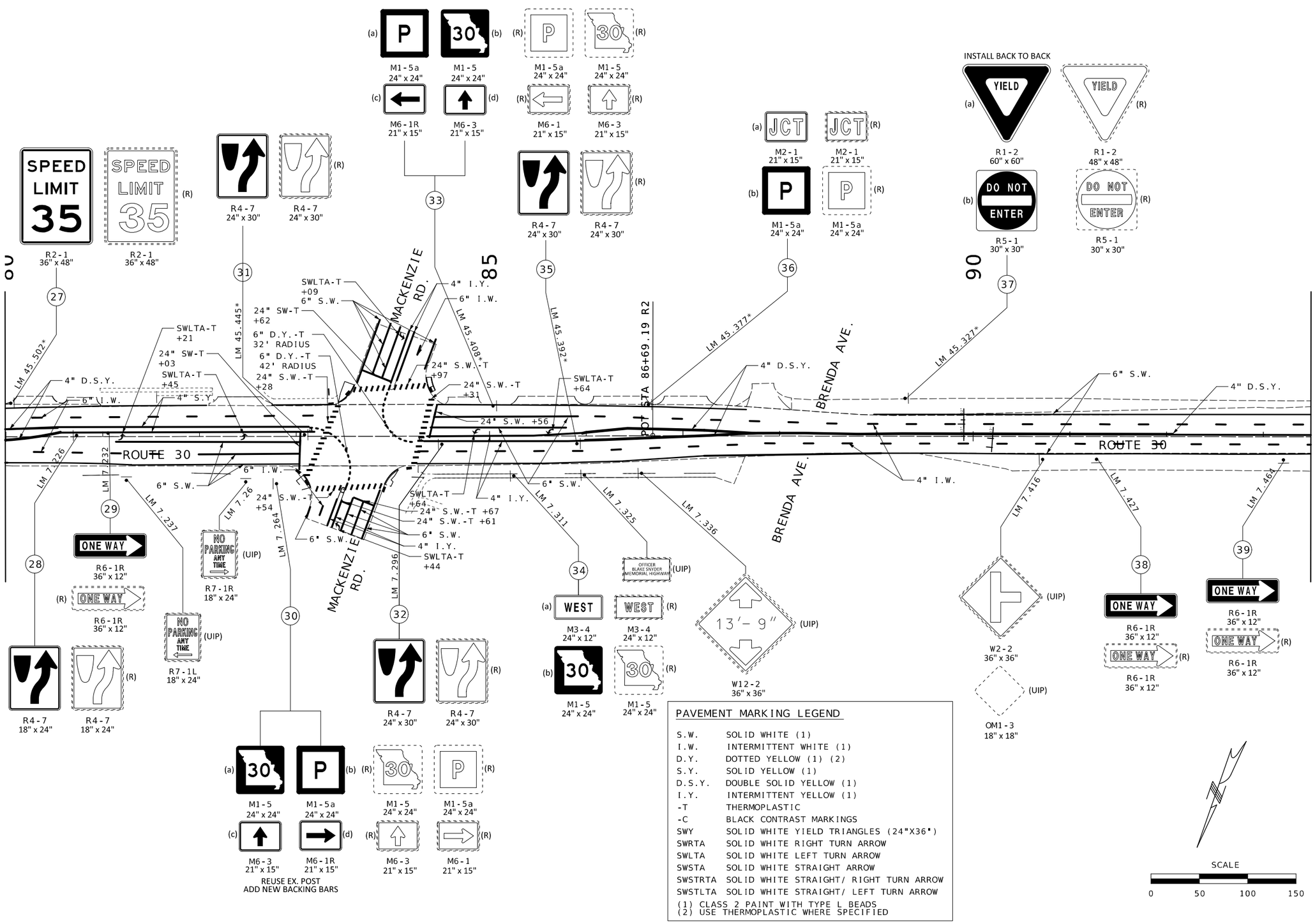
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SIGNING AND PAVEMENT MARKING PLANS
SHEET 6



STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:23:47 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	116

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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 AND PAVEMENT MARKING PLANS
SHEET 7

SIGN MOUNTED ON RR BRIDGE

13 FT 9 IN (R)

W12-2a
84" x 24"

13 FT 9 IN

W12-2a
84" x 24"

95

10C

10E

MATCHLINE STA. 93+49.23

IVY AVE.

6" S.W.

6" I.W.

LM 45.214*

40

S70°53'25"W

LM 7.477

13 FT 9 IN (UIP)

W12-2a
84" x 24"
SIGN MOUNTED ON RR BRIDGE

6" S.W.

6" I.W.

4" D.S.Y.

ROUTE 30

EQUATION:
STA 101+71.37 BK =
STA 101+81.14 AHD

STA 101+81.14 R3

S70°53'25"W

LM 7.633

41

(UIP)

W2-2
36" x 36"

LM 45.073*

SPEED LIMIT 35

R2-1
36" x 48"

SPEED LIMIT 35 (R)

R2-1
36" x 48"

42

LM 45.035*

13'-9" (UIP)

W12-2
36" x 36"

LM 45.017*

(R)

R4-7
24" x 30"

R4-7
24" x 30"

44

LM 7.699

6" S.W.

STA 107+06.59 R3

MATCHLINE STA. 107+09.00

6" S.W.

LM 7.68

4" D.S.Y.

4" S.Y.

LM 7.721

NO PARKING ANY TIME (UIP)

R7-1L
18" x 24"

NO PARKING ANY TIME (UIP)

R7-1R
18" x 24"

LM 7.696

43

(R) JCT

M2-1
21" x 15"

JCT (a)

M2-1
21" x 15"

(R) 21

M1-5
24" x 24"

21 (b)

M1-5
24" x 24"

REMOVE SIGNS FROM LIGHT POLE
INSTALL NEW POST AND SIGNS
IN FRONT OF LIGHT POLE

(R) YIELD

R1-2
48" x 48"

(a) YIELD

R1-2
60" x 60"

(R) DO NOT ENTER

R5-1
30" x 30"

(b) DO NOT ENTER

R5-1
30" x 30"
INSTALLED BACK TO BACK

SCALE

0 50 100 150

PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:23:36 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	117

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

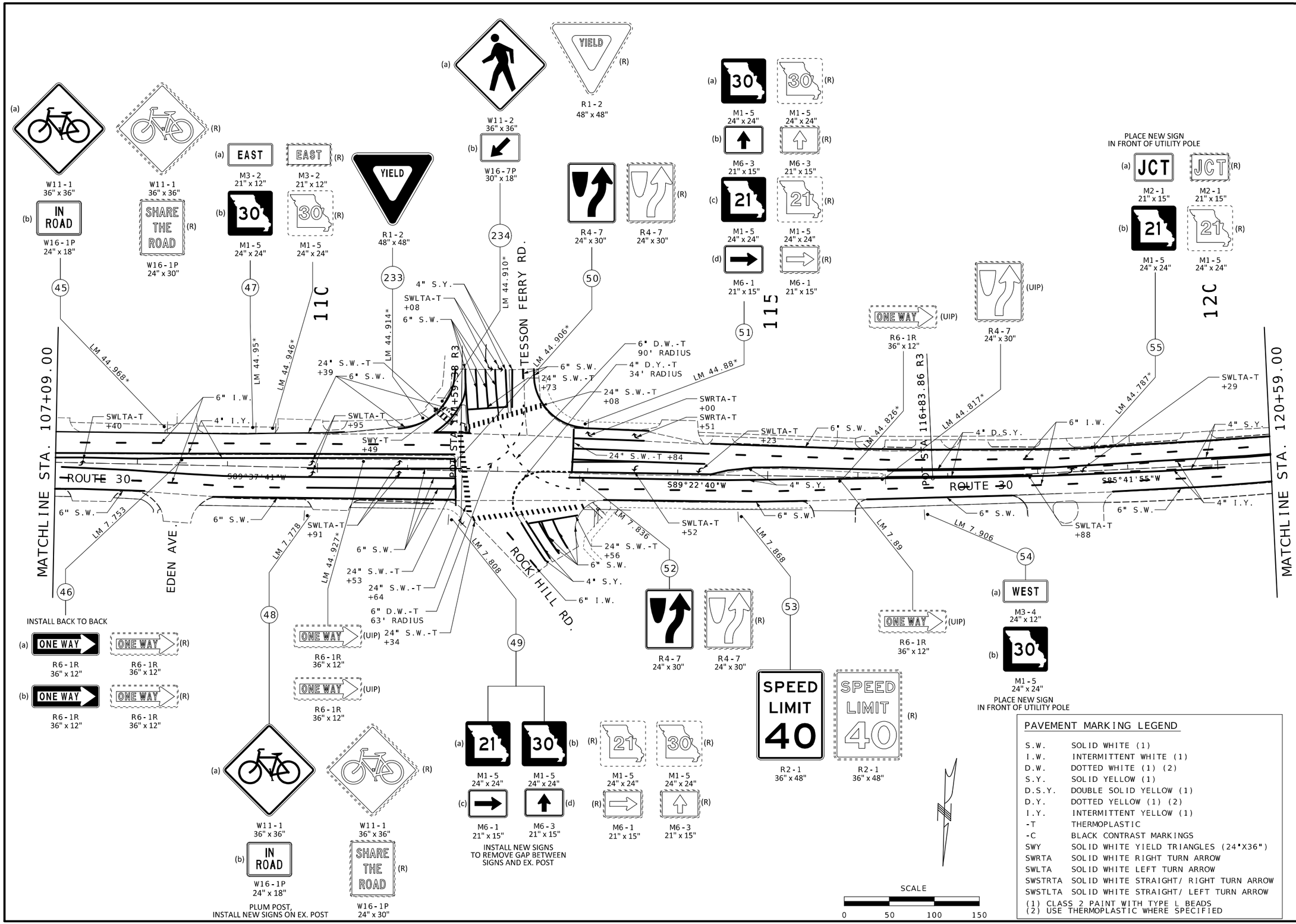
PROJECT NO.

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 AND
PAVEMENT MARKING PLANS
SHEET 8



PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
D.Y.	DOTTED YELLOW (1) (2)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
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SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:24:26 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED 9/25/2025

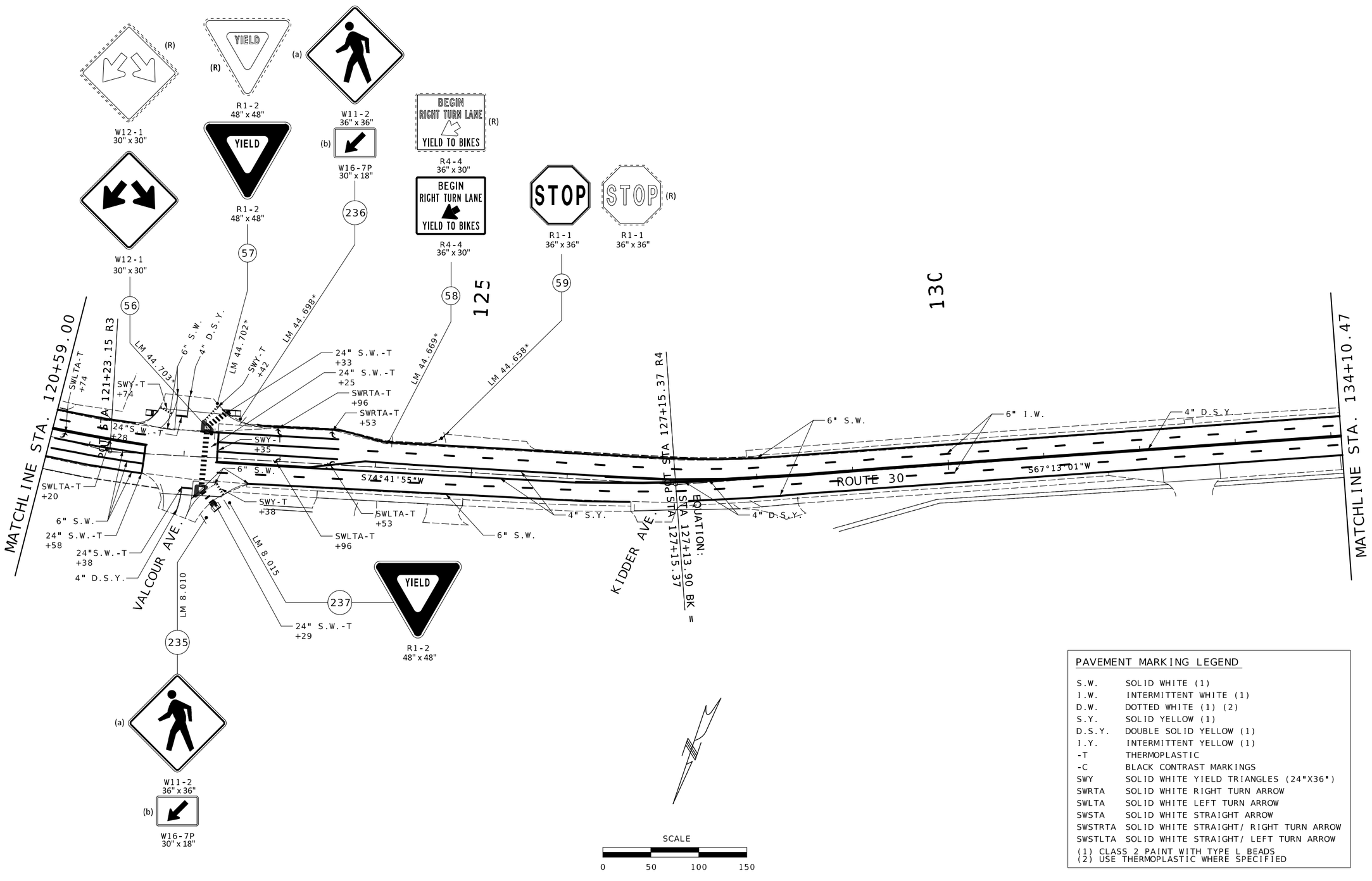
ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	118

COUNTY ST. LOUIS
JOB NO. JSL0081
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 AND PAVEMENT MARKING PLANS SHEET 9



SCALE

0 50 100 150

PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:23:15 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED 9/25/2025

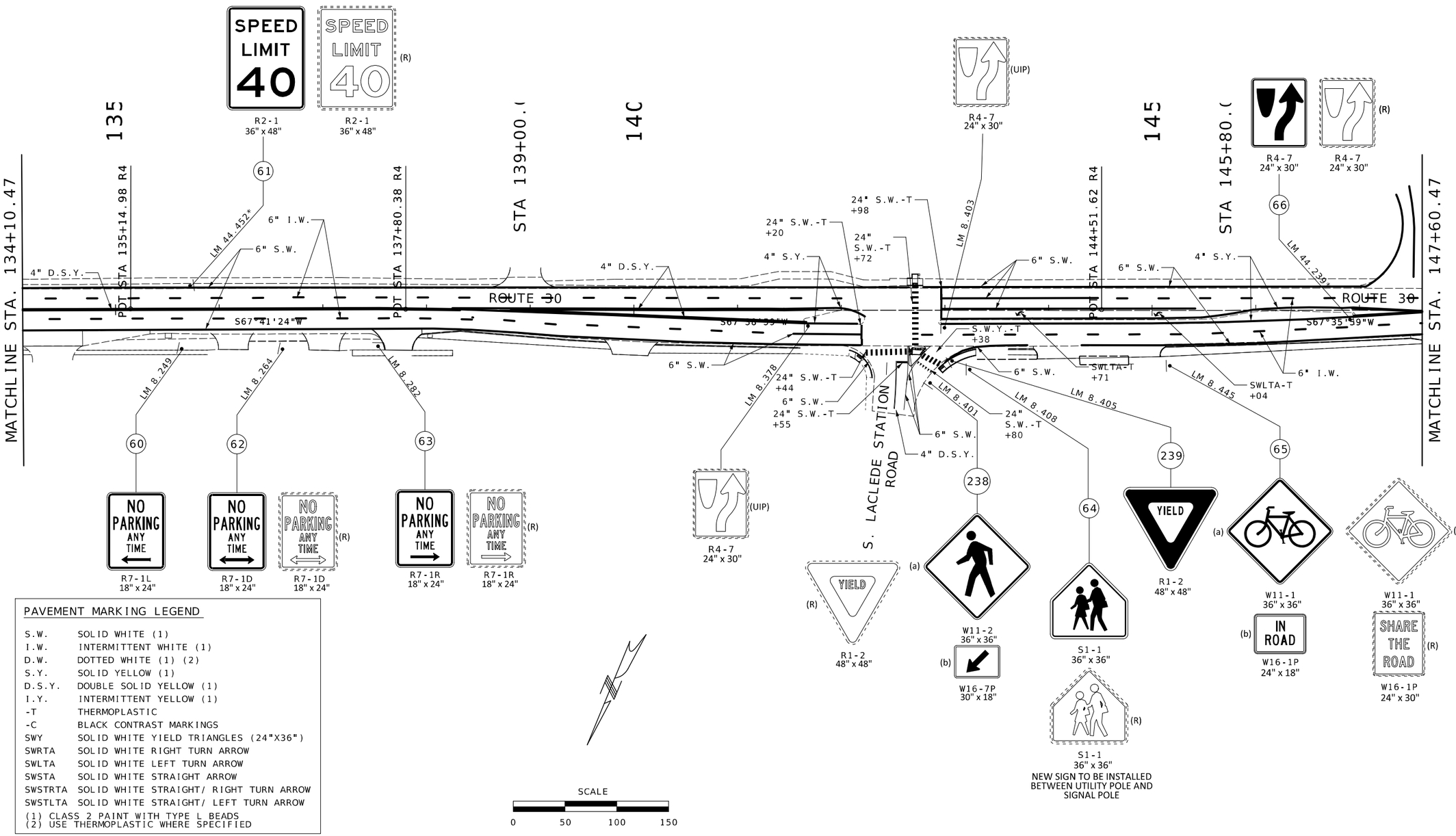
ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	119

COUNTY ST. LOUIS
JOB NO. JSL0081
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 AND PAVEMENT MARKING PLANS SHEET 10



PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:06:32 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED 9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	120

COUNTY ST. LOUIS
JOB NO. JSL0081
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 AND PAVEMENT MARKING PLANS SHEET 11

PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

SIGNS INSTALLED ON SIGNAL POLE

MATCHLINE STA. 147+60.47

MATCHLINE STA. 161+12.93

15C

16C

ROUTE 30

S66°25'04"W

EQUATION: POT STA 149+11.39 BK = POT STA 149+13.85 AH

POT STA 154+11.39 R5

GRANTVIEW LN.

MC. NARY DR.

GRANT RD.

6" S.W.

6" I.W.

4" D.S.Y.

6" S.W.-T

SWLTA-T +00

SWLTA-T +25

SWLTA-T +70

SWLTA-T +10

24" S.W.-T +55

24" S.W.-T +32

24" S.W.-T +92

24" S.W.-T +89

24" S.W.-T +74

24" S.W.-T +35

24" S.W.-T +48

6" S.W.

LM 44.118*

LM 8.636

LM 44.073*

LM 44.072*

LM 44.047*

LM 44.008*

LM 43.986*

LM 43.972*

LM 8.556

LM 8.576

LM 8.604

LM 8.622

LM 8.625

LM 8.655

LM 8.662

LM 8.684

LM 8.527

67	SPEED LIMIT 40	R2-1	36" x 48"
68	WEST	M3-4	24" x 12"
69	DO NOT BLOCK INTERSECTION	R10-7	24" x 30"
70	S1-1	S1-1	36" x 36"
71	W11-1	W11-1	36" x 36"
72	EAST	M3-2	24" x 12"
73	R4-7	R4-7	24" x 30"
74	BIKE ROUTE	D11-1	24"x18"
75	M6-4	M6-4	12"x15"
76	W16-1P	W16-1P	24" x 18"
(UIP)	ONE WAY	R6-1R	36" x 12"
(UIP)	ULYSSES S. GRANT NATIONAL HISTORIC SITE	SPECIAL	
(UIP)	GRAVOIS CREEK	I3-1	
(UIP)		OM3-R	12" x 36"
(R)	30	M1-5	24" x 24"
(a)	30	M1-5	24" x 24"
(b)	IN ROAD	W16-1P	24" x 18"
(R)	SHARE THE ROAD	W16-1P	24" x 30"

SCALE

0 50 100 150

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:06:39 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/25/2025

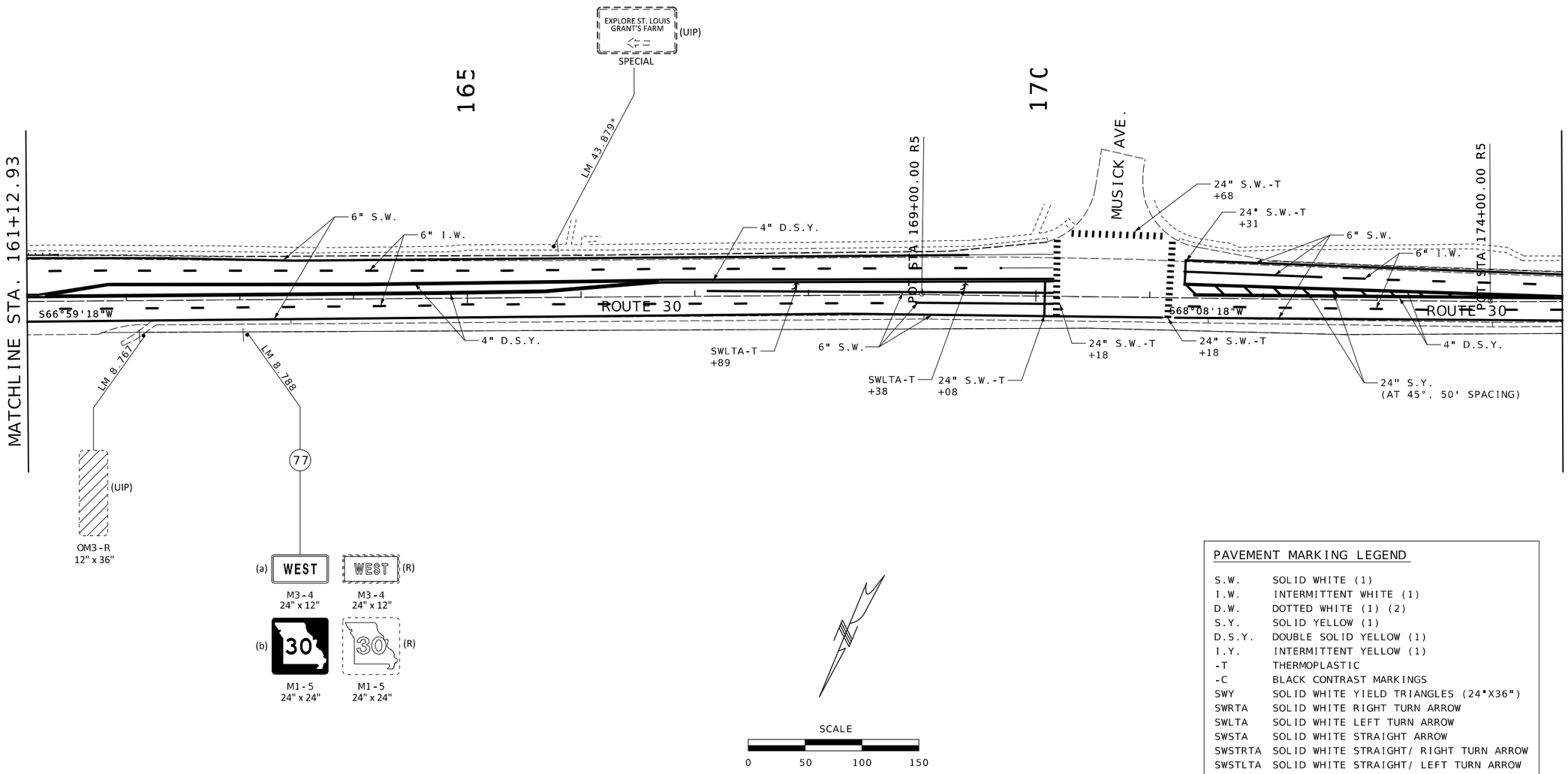
ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	121

COUNTY: ST. LOUIS
JOB NO.: JSL0081
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 AND PAVEMENT MARKING PLANS
SHEET 12



PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2009019687
PROFESSIONAL ENGINEER
09/30/2025 2:06:23 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2009019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	122

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

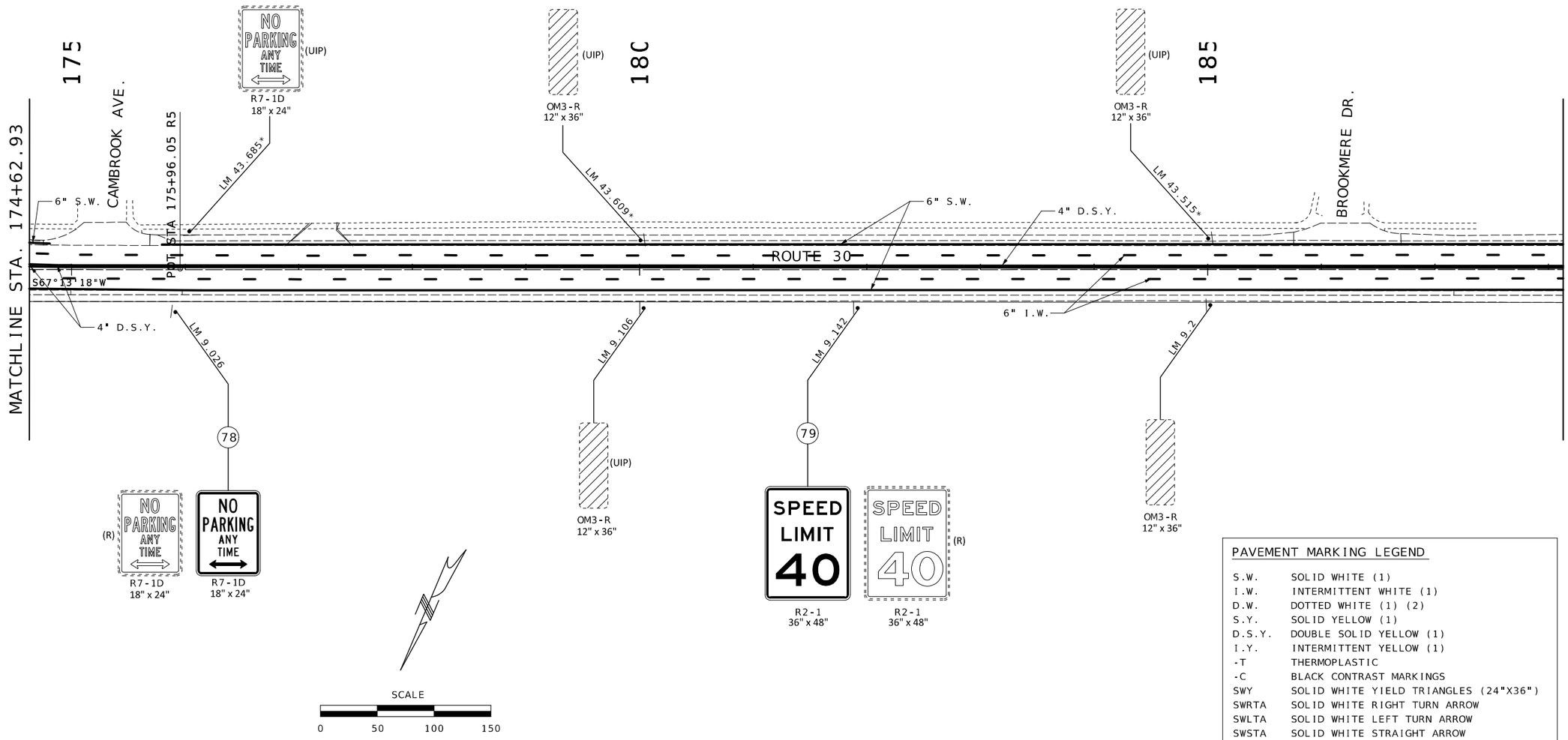
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SIGNING AND
PAVEMENT MARKING PLANS
SHEET 13



PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
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SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
05/30/2025 2:06:15 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	123

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

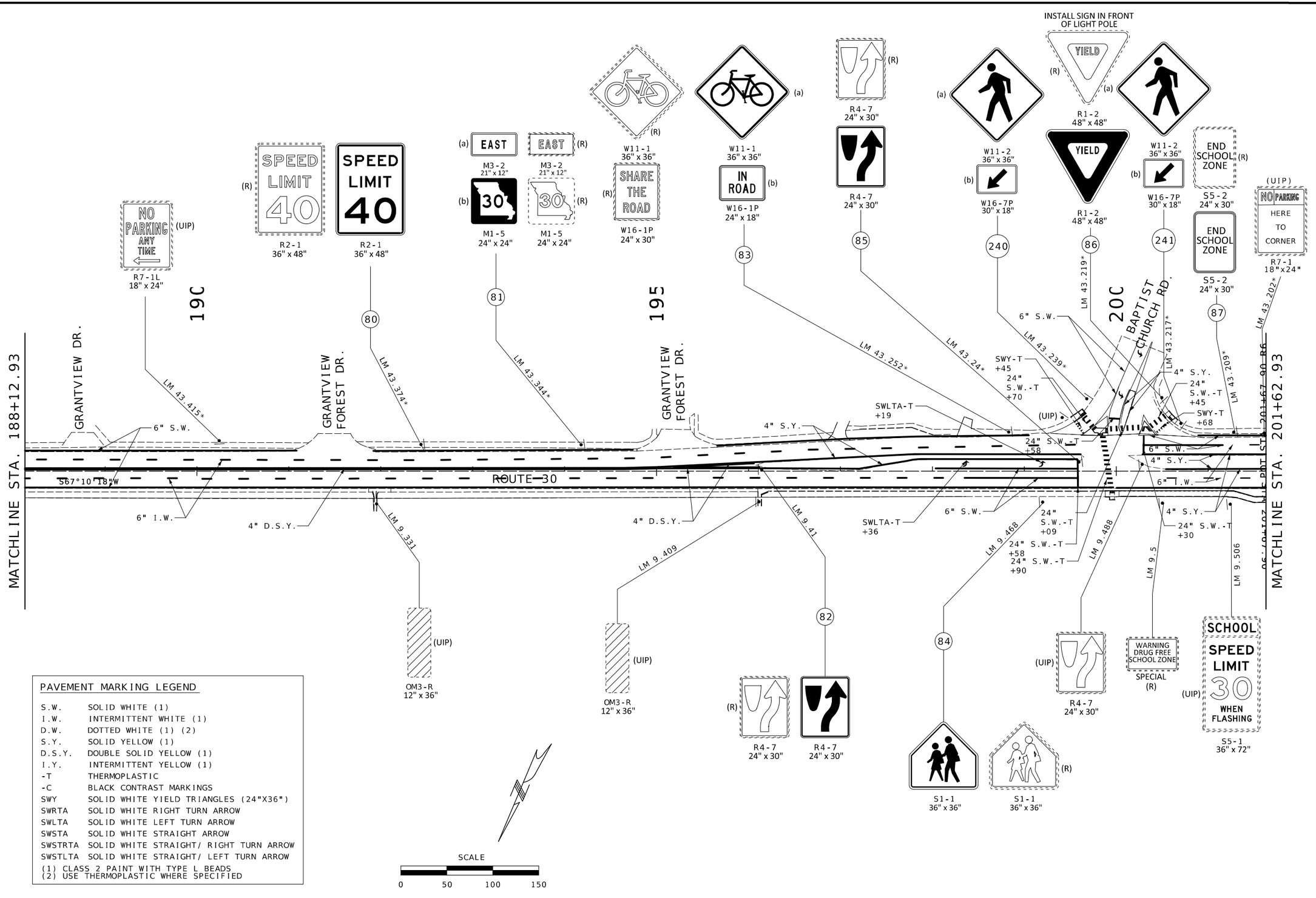
PROJECT NO.

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 AND
PAVEMENT MARKING PLANS
SHEET 14



PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
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SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:05:17 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/25/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 124
COUNTY: ST. LOUIS
JOB NO.: JSL0081
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 AND PAVEMENT MARKING PLANS
SHEET 15

SCALE
0 50 100 150

PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

205

21C

ROUTE 30

S78°07'55"W

S78°50'55"W

MATCHLINE STA. 201+62.93

EQUATION: STA. 201+69.01 BK = STA. 201+62.93 AHD

MATCHLINE STA. 215+11.82

POT STA 215+09.78 R6

BRIARSTONE DR.

EDDIE AND PARK RD.

STA 206+18.50 R6

(R) R4-7 24" x 30"
89 LM 43.141*
24" S.W.-T +43
24" S.W.-T +55
24" S.W.-T +80
6" S.W.
6" I.W.
4" S.Y.
LM 9.525
88
(R) W11-1 36" x 36"
(R) W16-1P 24" x 18"
W16-1P 24" x 30"
(a) W11-1 36" x 36"
(b) IN ROAD
W16-1P 24" x 18"
LM 9.586
242
(a) W11-2 36" x 36"
(b) W16-7P 30" x 18"
LM 9.587
90
R4-7 24" x 30"
(R) R4-7 24" x 30"
6" S.W.
4" S.Y.
24" S.W.-T +02
6" S.W.
4" S.Y.
SWLTA-T +10
6" S.W.
24" S.W.-T +43
24" S.W.-T +55
SWY-T +62 +51
6" S.W.
24" S.W.-T +36
LM 9.592
243
YIELD
R1-2 48" x 48"
(REMOVE SIGN FROM LIGHT POLE)
YIELD
R1-2 48" x 48"
(R) R4-7 24" x 30"
92 LM 43.077*
SWLTA-T +83
4" S.Y.
LM 9.633
91
(a) ONE WAY R6-1R 36" x 12"
(b) ONE WAY R6-1L 36" x 12"
(R) ONE WAY R6-1R 36" x 12"
(R) ONE WAY R6-1L 36" x 12"
SIGNS INSTALLED BACK TO BACK
LM 9.641
93
(a) ONE WAY R6-1R 36" x 12"
(b) ONE WAY R6-1L 36" x 12"
(R) ONE WAY R6-1R 36" x 12"
(R) ONE WAY R6-1L 36" x 12"
SIGNS INSTALLED BACK TO BACK
LM 9.657
LM 9.671
94
NO PARKING ANY TIME R7-1D 18" x 24"
(R) NO PARKING ANY TIME R7-1D 18" x 24"
(UIP) OM3-R 12" x 36"
95
(a) WEST M3-4 24" x 12"
(b) 30 M1-5 24" x 24"
(c) NO PARKING ANY TIME R7-1D 18" x 24"
(R) WEST M3-4 24" x 12"
(R) 30 M1-5 24" x 24"
(R) NO PARKING ANY TIME R7-1D 18" x 24"
LM 9.688
96
(R) NO PARKING ANY TIME R7-1D 18" x 24"
R7-1D 18" x 24"
LM 9.71
97
NO PARKING ANY TIME R7-1D 18" x 24"
(R) NO PARKING ANY TIME R7-1D 18" x 24"
LM 9.715
LM 9.723
98
SPEED LIMIT 40 R2-1 36" x 48"
(R) SPEED LIMIT 40 R2-1 36" x 48"
LM 9.744
99
NO PARKING ANY TIME R7-1D 18" x 24"
(R) NO PARKING ANY TIME R7-1D 18" x 24"
INSTALL IN GRASS AT EDGE OF SIDEWALK
100
NO PARKING ANY TIME R7-1D 18" x 24"
(R) NO PARKING ANY TIME R7-1D 18" x 24"
INSTALL IN GRASS AT EDGE OF SIDEWALK
LM 43.074*
R7-1L 36" x 36"
NO PARKING ANY TIME (UIP)
LM 43.072*
STOP (UIP)
R1-1 36" x 36"
LM 43.041*
OM3-R 12" x 36" (UIP)
LM 43.026*
OM3-R 12" x 36" (UIP)
4" D.S.Y.
4" D.S.Y.
6" S.W.
6" I.W.

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:23:27 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	125

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

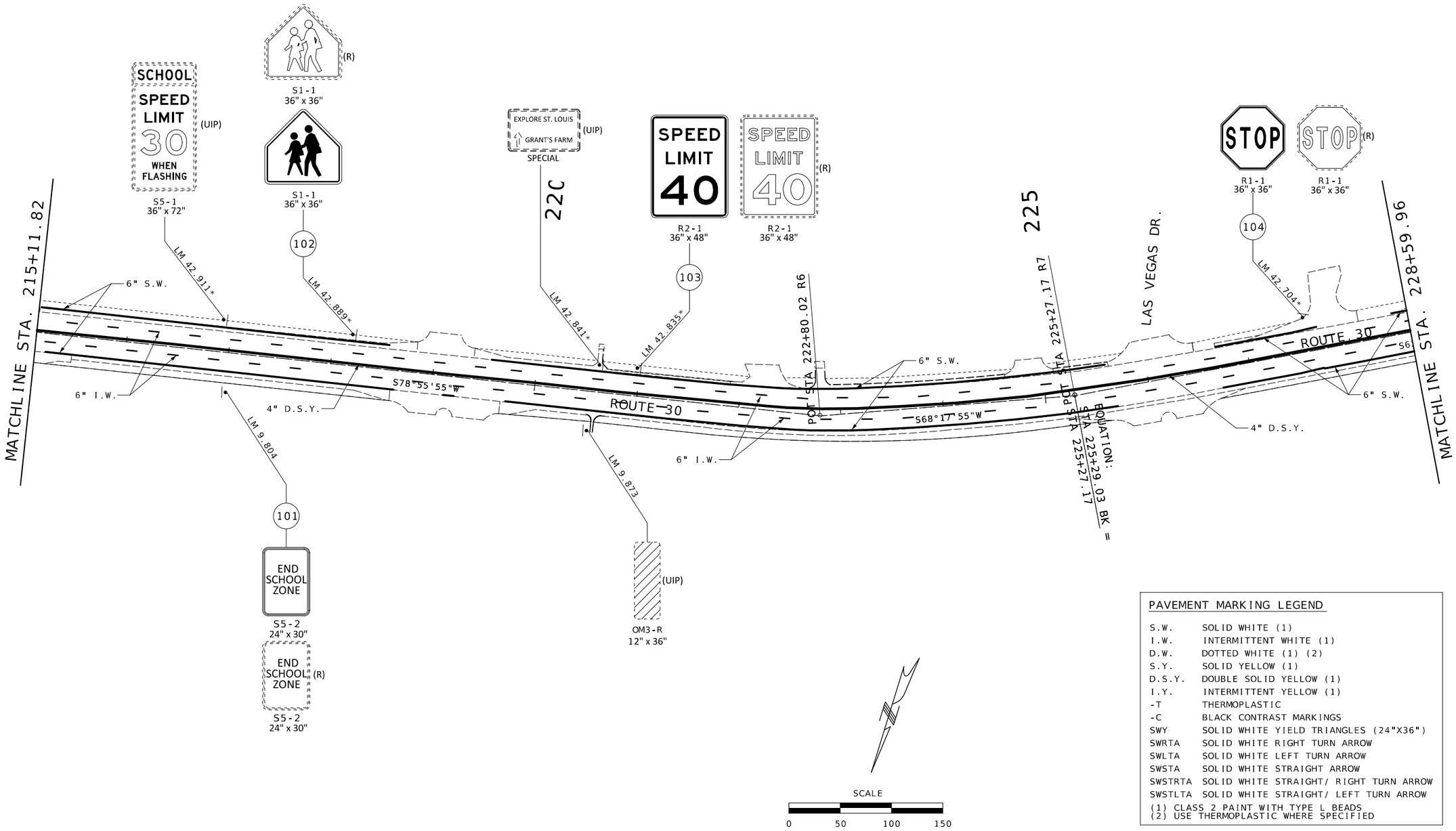
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SIGNING AND PAVEMENT MARKING PLANS
SHEET 16



PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
05/30/2025 2:05:46 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	126

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

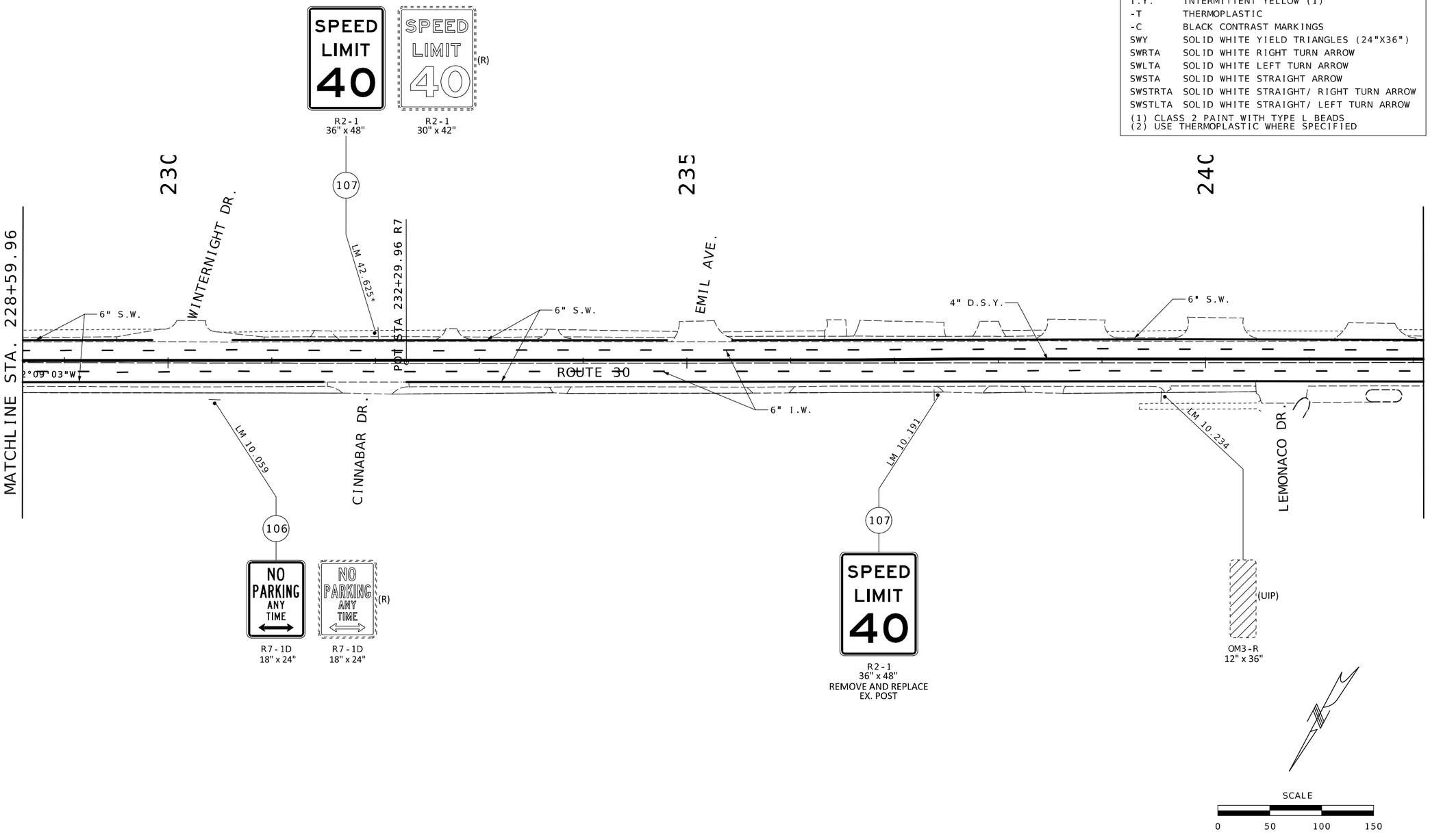
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNING AND
PAVEMENT MARKING PLANS
SHEET 17

PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED



STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:05:38 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	127

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

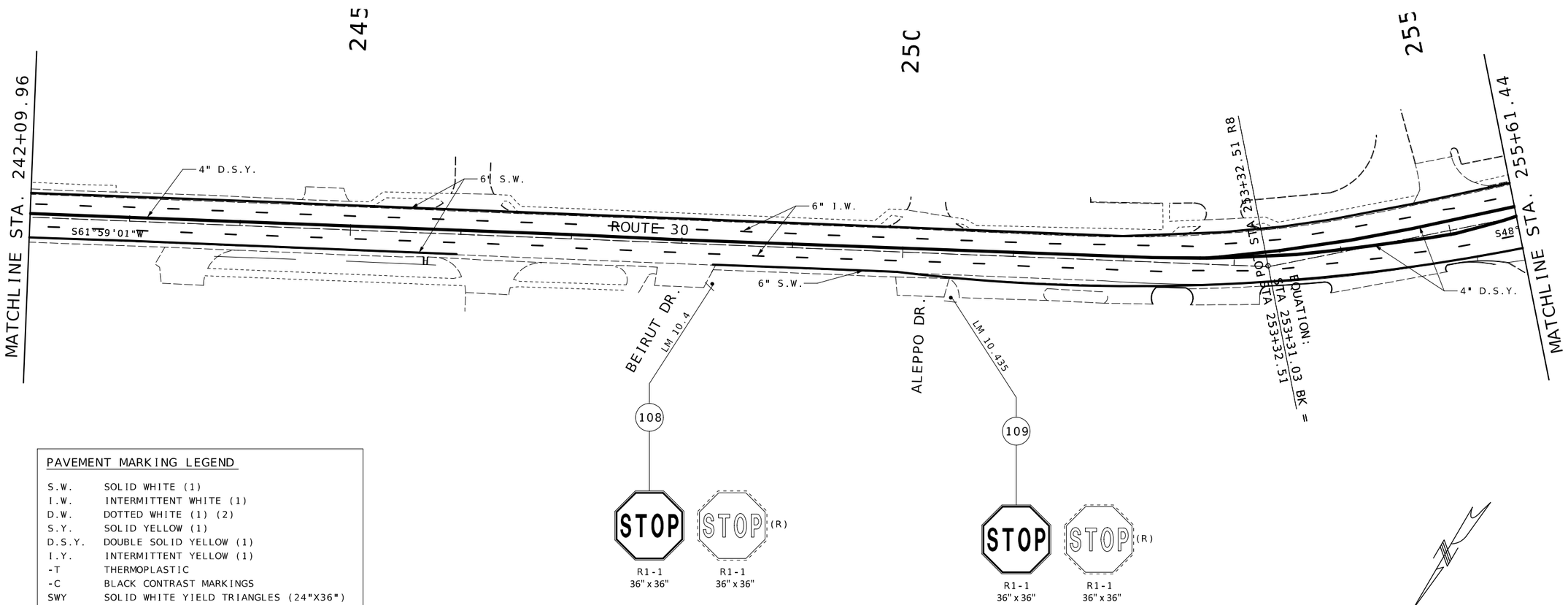
PROJECT NO.

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 AND
PAVEMENT MARKING PLANS
SHEET 18



PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:05:29 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/25/2025

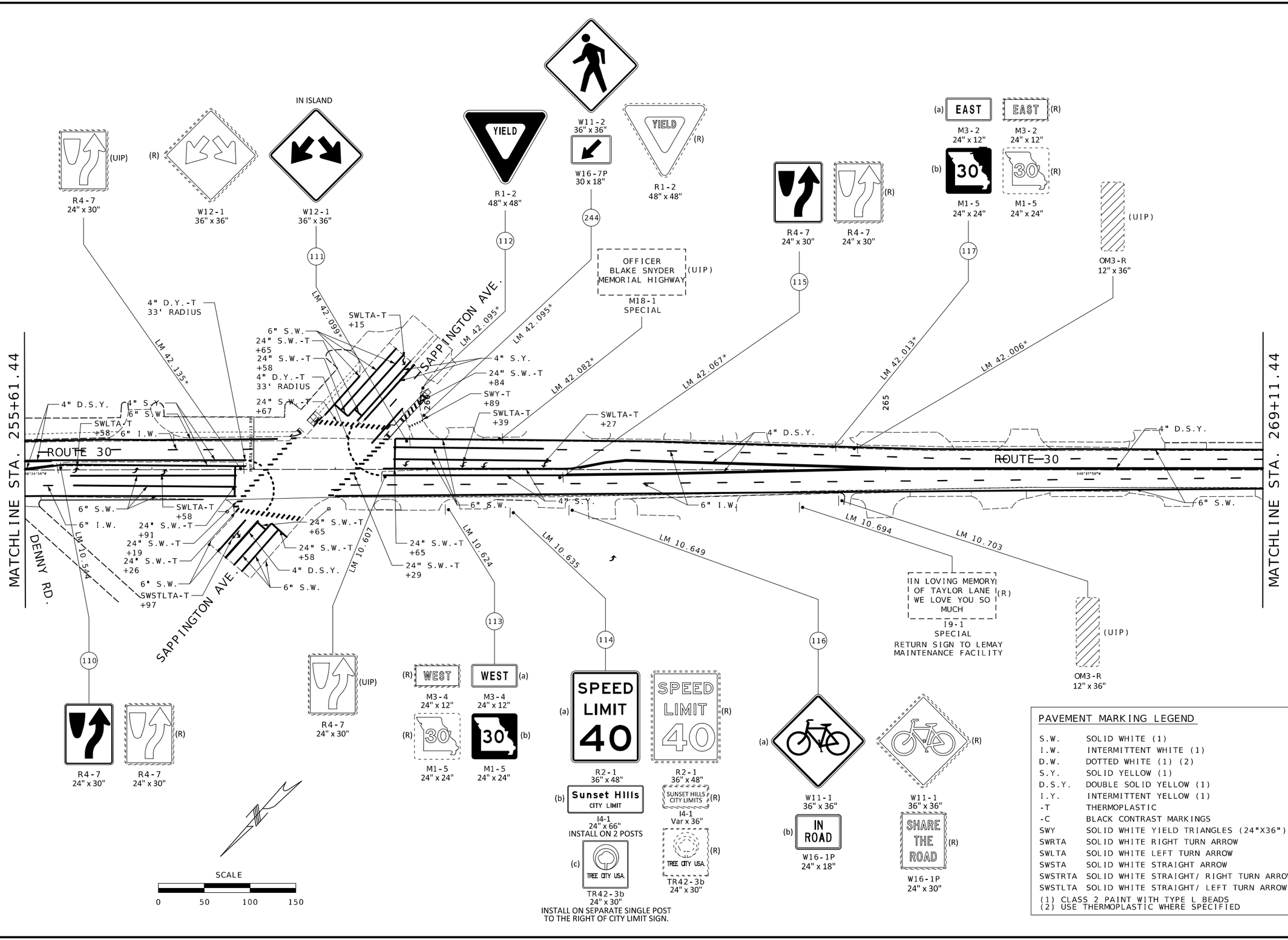
ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	128

COUNTY: ST. LOUIS
JOB NO.: JSL0081
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 AND
PAVEMENT MARKING PLANS
SHEET 19



PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:05:02 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED	9/25/2025
ROUTE	30
STATE	MO
DISTRICT	SL
SHEET NO.	129
COUNTY	ST. LOUIS
JOB NO.	JSL0081
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 AND PAVEMENT MARKING PLANS
SHEET 20

PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

MATCHLINE STA. 269+11.44

MATCHLINE STA. 282+47.59

LINDBERGH BLVD. (ROUTE 50)

ROUTE I 30

POT STA 276+21.85 BB

POT STA 281+25.00 R9

EQUATION: STA 281+38.84 BK = STA 281+25.00 AH

S48°37'25"W

27C

28C

275

LM 41.919*

LM 41.897*

LM 41.772*

LM 41.773*

LM 41.762*

LM 41.72*

LM 10.804

LM 10.869

LM 10.912

LM 10.916

LM 10.922

LM 10.946

LM 10.919

LM 11.011

119

118

120

121

122

123

124

125

6" S.W.

6" I.W.

4" D.S.Y.

24" S.W.-T +40

24" S.W.-T +46

24" S.W.-T +53

24" S.W.-T +91

24" S.W.-T +00

24" S.W.-T +15

24" S.W.-T +63

4"D.S.Y.

4" S.Y.

6" S.Y.

SWLTA-T +07

SWLTA-T +81

SWLTA-T +49

SWLTA-T +28

SWLTA-T +87

SWLTA-T +91

SWRTA-T +85

SWRTA-T +50

SWRTA-T +86

SWRTA-T +90

SWY-T +98

SWY-T +91

SWY-T +05

SWY-T +99

IN ISLAND

(UIP)

YIELD

R1-2
48" x 48"

W12-1
36" x 36"

W11-2
36" x 36"

W16-7P
30" x 18"

R7-1R
24" x 30"

NO PARKING ANY TIME

SPEED LIMIT 40

R2-1
36" x 48"

SPEED LIMIT 40 (R)

R2-1
36" x 48"

W12-1
36" x 36"

(a) 30 (b) 50

(c) (d)

(e) 61 (f) 67

(g) (h)

M1-5
24" x 24"

M1-4
24" x 24"

M6-3
21" x 15"

M6-4
21" x 15"

(R)

BEGIN RIGHT TURN LANE
YIELD TO BIKES

R4-4
36" x 30"

LEFT TURN YIELD ON FLASHING ARROW

R10-27a
30" x 36"

SIGN INSTALLED ON SIGNAL POST

LEFT TURN YIELD ON FLASHING ARROW

R10-27a
30" x 36"

JCT

M2-1
21" x 15"

R4-7
24" x 30"

SCALE
0 50 100 150

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 12:54:47 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	130

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

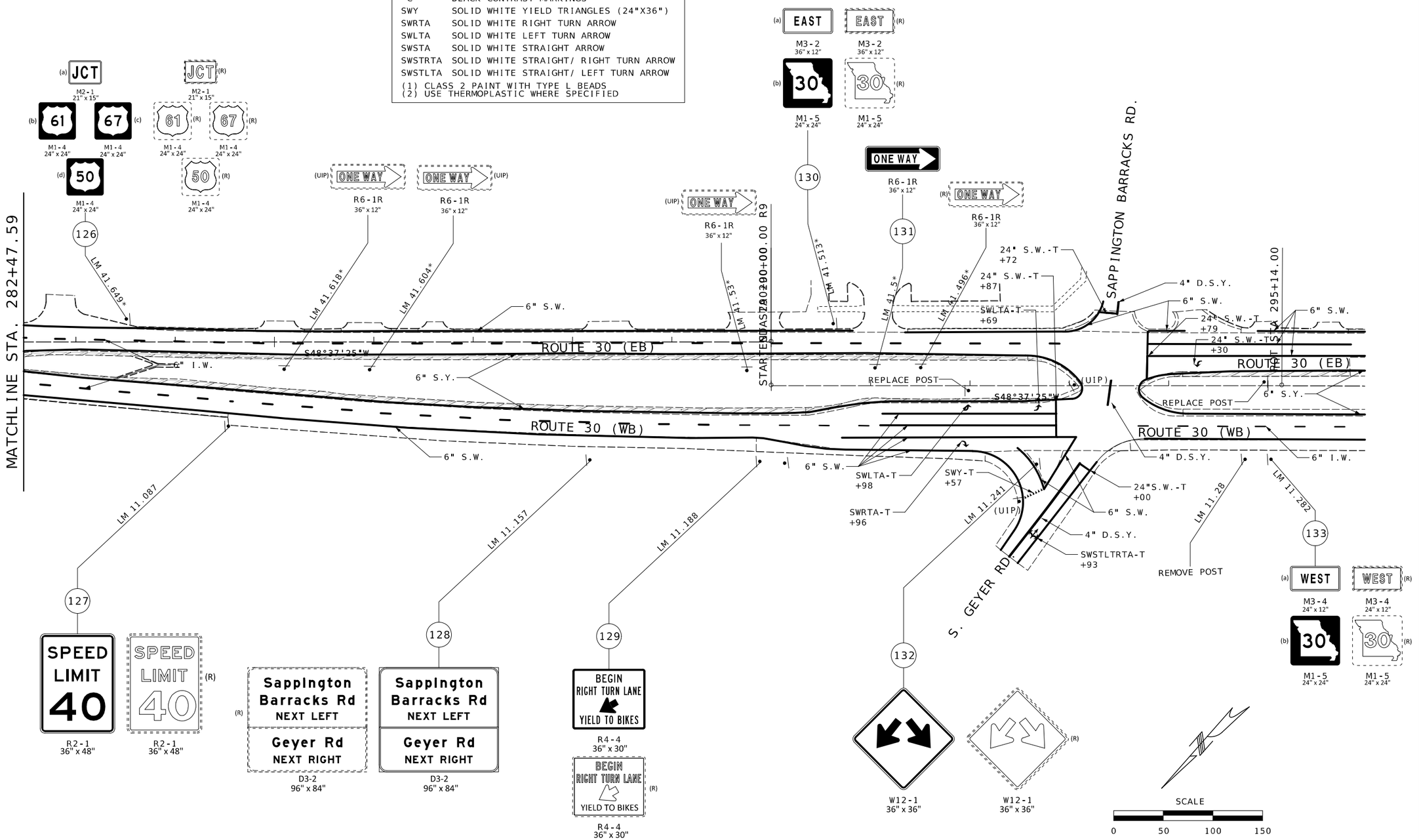
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNING AND PAVEMENT MARKING PLANS
SHEET 21

PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED



STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:05:55 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	131

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

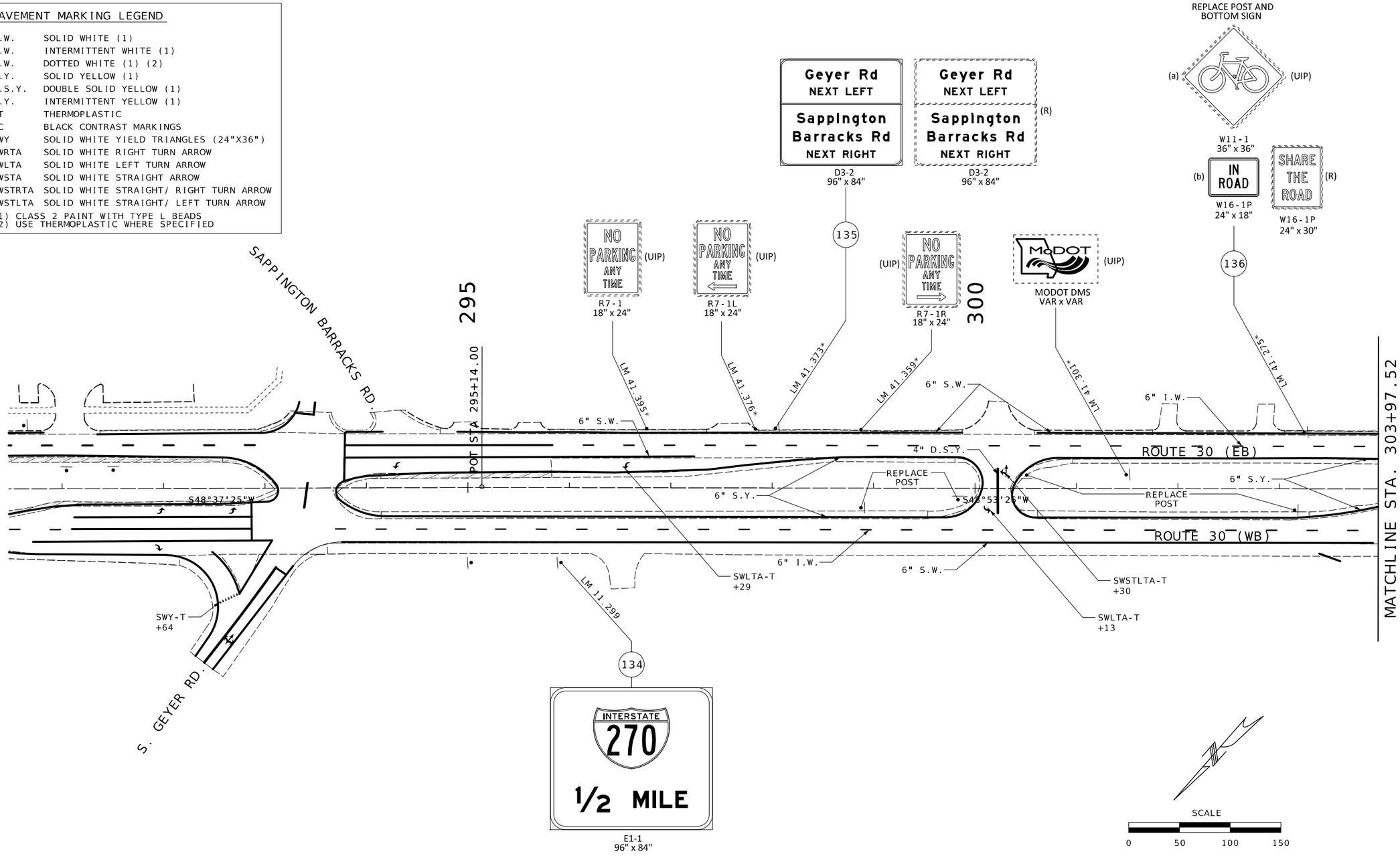
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNING AND PAVEMENT MARKING PLANS SHEET 22

PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED



STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:05:10 PM
STUART ROBINSON McNEIL · CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	132

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

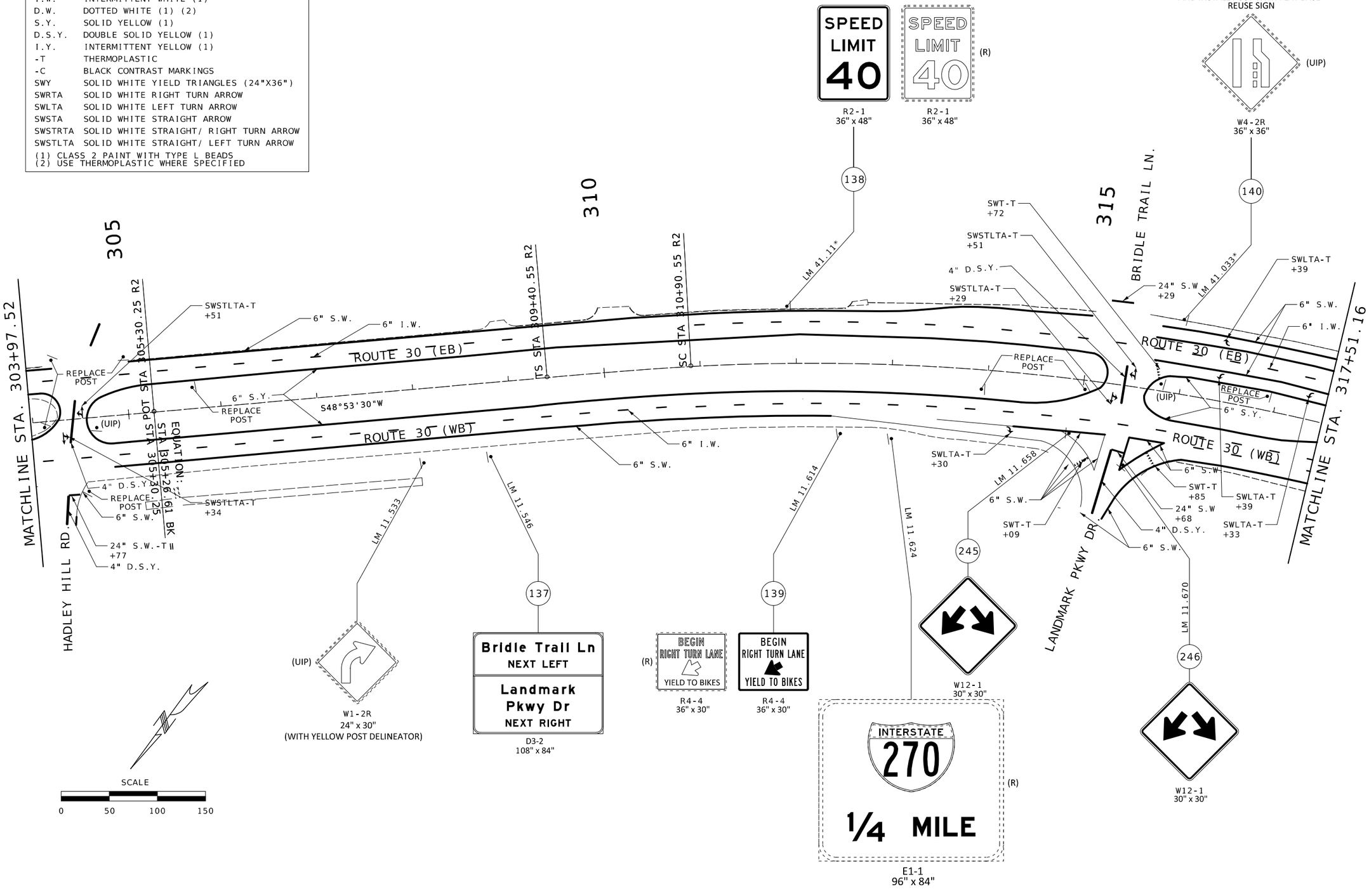
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNING AND
PAVEMENT MARKING PLANS
SHEET 23

PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED



STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
05/30/2025 2:04:47 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/25/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 133
COUNTY: ST. LOUIS
JOB NO.: JSL0081
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 AND PAVEMENT MARKING PLANS
SHEET 24

SCALE
0 50 100 150

REMOVE PIPE POST AND ANGLED BASE, AND INSTALL POST WITH FLAT BASE REUSE SIGN

(UIP) RIGHT LANE ENDS
W9-1R
36" x 36"

(UIP) ONE WAY
R6-1R
36" x 12"

(UIP) ONE WAY
R6-1R
36" x 12"

(UIP) ONE WAY
R6-1L
36" x 12"

(UIP) ONE WAY
R6-1L
36" x 12"

(UIP)
R3-1
24" x 24"

(UIP)
R3-1
24" x 24"

(R) NORTH
M3-1 (BLUE)
24" x 12"

NORTH (a)
M3-1 (BLUE)
24" x 12"

(R) INTERSTATE 270
M3-1 (BLUE)
24" x 12"

INTERSTATE 270 (b)
M3-1 (BLUE)
24" x 12"

(R)
M1-1
30" x 24"

(c)
M1-1
30" x 24"

(R)
M6-1R (BLUE)
21" x 15"

M6-1R (BLUE)
21" x 15"

OVERHEAD SIGN
SOUTH INTERSTATE 270
ONLY ONLY
D15-1
192" x 48"

SOUTH INTERSTATE 270
ONLY ONLY (R)
D15-1
192" x 48"

OVERHEAD SIGN
NORTH INTERSTATE 270
ONLY ONLY
D15-1
192" x 48"

NORTH INTERSTATE 270
ONLY ONLY (R)
D15-1
192" x 48"

OVERHEAD SIGN
NORTH INTERSTATE 270
ONLY ONLY
D15-1
192" x 48"

NORTH INTERSTATE 270
ONLY ONLY (R)
D15-1
192" x 48"

142 148 150 151 152

320 325 330

LM 40.952* LM 40.893* LM 40.884* LM 40.875* LM 11.862 LM 40.847* LM 40.817*

I-270

CS STA 319+66.96 R2
ST STA 321+44.20 R3
EQUATION ST STA 321+16.94 BK = STA 321+44.20
OT STA 326+58.05 R3

MATCHLINE STA. 317+51.16
MATCHLINE STA. 331+28.42

ROUTE 30 (EB)
ROUTE 30 (WB)
S14°33'00"W

143 LM 11.763
144 LM 11.772
145 LM 11.8
146 LM 11.82
147 LM 11.822
149 LM 11.85
LM 11.89
LM 11.728
141

SOUTH (a) NORTH (b)
M3-3 (BLUE) 24" x 12"
INTERSTATE 270 (c)
M3-1 (BLUE) 24" x 12"
INTERSTATE 270 (d)
M1-1 30" x 24" (e)
M5-1R (BLUE) 21" x 15" (f)
(R) SOUTH (R) NORTH
M3-3 24" x 12" (R) INTERSTATE 270
M3-1 24" x 12" (R) INTERSTATE 270
M1-1 30" x 24" (R)
M1-1 30" x 24" (R)
M6-3 21" x 15"
M5-1R 21" x 15"

BEGIN RIGHT TURN LANE YIELD TO BIKES
R4-4
36" x 30"
(R) BEGIN RIGHT TURN LANE YIELD TO BIKES
R4-4
36" x 30"

OVERHEAD SIGN
NORTH INTERSTATE 270
D15-1
84" x 48"
NORTH INTERSTATE 270 ONLY (R)
D15-1
84" x 48"

(a) NORTH (R) NORTH
M3-1 (BLUE) 24" x 12"
(b) INTERSTATE 270 (R) INTERSTATE 270
M3-1 24" x 12"
M1-1 30" x 24" (c)
M1-1 30" x 24" (R)
M6-2R (BLUE) 21" x 15"
M6-2R 21" x 15"

YIELD
R1-2
60" x 60"
(R) YIELD
R1-2
60" x 60"

SOUTH (a) WEST (b)
M3-3 (BLUE) 24" x 12"
INTERSTATE 270 (c)
M3-4 24" x 12"
30 (d)
M1-1 30" x 24" (e)
M1-5 24" x 24" (f)
M5-1L (BLUE) 21" x 15"
M6-3 21" x 15"
SOUTH (R) WEST (R)
M3-3 24" x 12" (R) INTERSTATE 270
M3-4 24" x 12" (R) 30
M1-1 30" x 24" (R)
M1-5 24" x 24" (R)
M5-1L 21" x 15"
M6-3 21" x 15"

WEIGHT LIMIT 55 TONS (UIP)
R12-1
36" x 48"

OVERHEAD SIGN
SOUTH INTERSTATE 270
ONLY ONLY
D15-1
192" x 48"
SOUTH INTERSTATE 270
ONLY ONLY (R)
D15-1
192" x 48"

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 12:54:16 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED 9/25/2025
ROUTE 30 | STATE MO
DISTRICT SL | SHEET NO. 134
COUNTY ST. LOUIS
JOB NO. JSL0081
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 AND PAVEMENT MARKING PLANS
SHEET 25A

REMOVE ALL SIGNS FROM WIDE FLANGE I-BEAM POST.
REINSTALL ALL SIGNS ON NEW PIPE POST

SCALE
0 50 100 150

(R) NORTH — M3-1 (BLUE) 24" x 12"
(R) EAST — M3-2 24" x 12"
NORTH (a) — M3-1 (BLUE) 24" x 12"
EAST (b) — M3-2 24" x 12"
(R) INTERSTATE 270 — M1-1 30" x 24"
(R) 30 — M1-5 24" x 24"
INTERSTATE 270 (c) — M1-1 30" x 24"
30 (d) — M1-5 24" x 24"
(R) — M5-1L 21" x 15"
(R) — M6-3 21" x 15"
(e) — M5-1L (BLUE) 21" x 15"
(f) — M6-3 21" x 15"

WEIGHT LIMIT 55 TONS (R) — R12-1 36" x 48"
WEIGHT LIMIT 55 TONS — R12-1 36" x 48"

(UIP) SOUTH — M3-3 (BLUE) 24" x 12"
(UIP) INTERSTATE 270 — M1-1 30" x 24"
(UIP) — M6-2R (BLUE) 21" x 15"

YIELD (R) — R1-2 60" x 60"
YIELD — R1-2 60" x 60"

SOUTH / INTERSTATE 270 / ONLY (UIP) — D15-1 84" x 48"

COMMUTER PARKING (UIP) — D4-1a 60" x 36"
MISSOURI DEPARTMENT OF TRANSPORTATION

NORTH — M3-1 24" x 12"
SOUTH — M3-3 24" x 12"
INTERSTATE 270 — M1-1 30" x 24"
INTERSTATE 270 — M1-1 30" x 24"
M6-3 21" x 15"
M5-1R 21" x 15"

154 155 156 157 158 159

320 325 330

I-270

MATCHLINE STA. 317+51.16
MATCHLINE STA. 331+28.42

ROUTE 30 (EB)
ROUTE 30 (WB)

CS STA 319+66.96 R2
ST STA 321+44.20 R3
EQUATION STA 321+16.94 BK = ST STA 321+44.20 R3
ST STA 326+58.05 R3

S14°33'00"W

LM 40.808*
LM 40.784*
LM 40.768*
LM 40.764*
LM 40.752*
LM 40.747*
LM 11.912
LM 11.927
LM 11.936
LM 11.953

24" S.W.-T +83
6" S.W.
SWY-T +21
6" S.Y.
6" I.W.
24" S.W.-T +17
24" S.W.-T +82-T
SWLTA-T +58
6" D.W.-T 137' RADIUS
6" D.W.-T 82' RADIUS
SWLTA-T +77
SWLTA-T +92
24" S.W.-T +09
SWLTA-T +84
6" I.W.
SWY-T +98
24" S.W.-T +45
SWRTA-T +08
SWRTA-T +51
24" S.W.-T +79
SWY-T +93
6" D.W.-T 84' RADIUS
SWLTA-T +12
SWLTA-T +52
6" D.W.-T 94' RADIUS
24" S.W.-T +10
24" S.W.-T +91
SWY-T +11
SWRTA-T +62
SWLTA-T +62
4" S.Y.

(UIP) ONE WAY — R6-1R 36" x 12"
(UIP) ONE WAY — R6-1L 36" x 12"
(UIP) — R3-1 24" x 24"

(UIP) NORTH / INTERSTATE 270 / ONLY — D15-1 192" x 48"

OVERHEAD SIGN
ONLY Kennerly Rd Gravols Rd ONLY — D15-1 192" x 48"
ONLY Gravols Rd ONLY (R) — D15-1 192" x 48"

(R) SOUTH — M3-3 (BLUE) 24" x 12"
SOUTH (a) — M3-3 (BLUE) 24" x 12"
(R) INTERSTATE 270 — M1-1 30" x 24"
INTERSTATE 270 (b) — M1-1 30" x 24"
(R) — M6-1L (BLUE) 21" x 15"
(c) — M6-1L (BLUE) 21" x 15"

PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 12:53:24 PM
STUART ROBINSON MCNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/25/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 135
COUNTY: ST. LOUIS
JOB NO.: JSL0081
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 AND PAVEMENT MARKING PLANS
SHEET 25B

PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

MATCHLINE STA. 331+28.42

MATCHLINE STA. 344+78.42

ROUTE 30 (EB)

ROUTE 30 (WB)

WEBER HILL RD.

S15°27'00"E

W12-1
30" x 30"

W12-1
30" x 30"

R1-2
48" x 48"

R1-2
48" x 48"

D15-1
96" x 48"

R2-1
36" x 48"

R2-1
36" x 48"

W4-2R
48" x 48"
REMOVE PIPE POST AND ANGLED BASE, AND INSTALL POST WITH FLAT BASE

D15-1
84" x 48"

R6-1R
36" x 12"

R6-1R
36" x 12"

R2-1
36" x 48"

R2-1
36" x 48"

W9-1R
36" x 36"
REMOVE PIPE POST AND ANGLED BASE, AND INSTALL POST WITH FLAT BASE
REUSE SIGN

SCALE
0 50 100 150

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 12:54:34 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	136

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

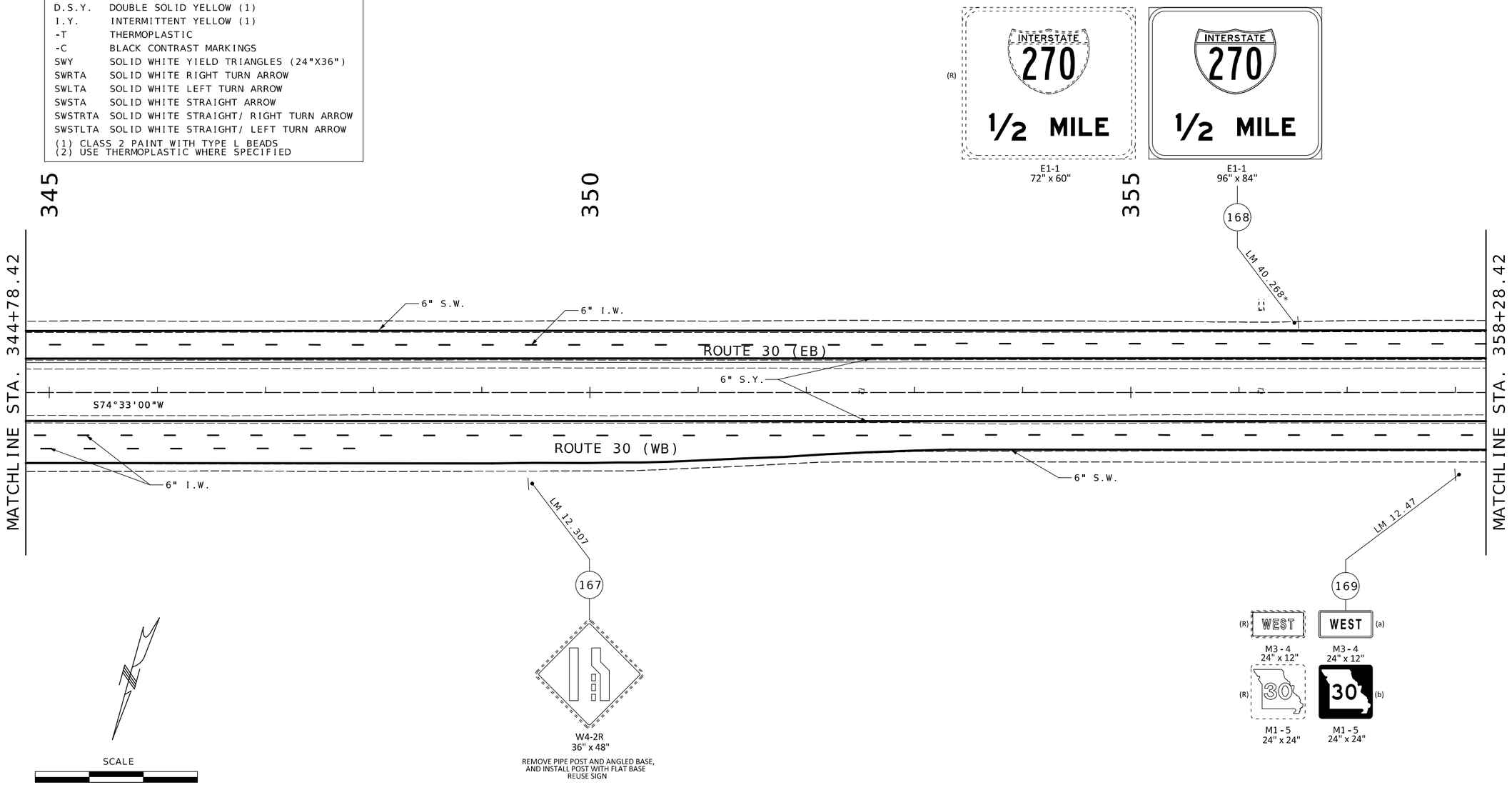
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNING AND
PAVEMENT MARKING PLANS
SHEET 26

PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED



STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 12:54:03 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	137

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

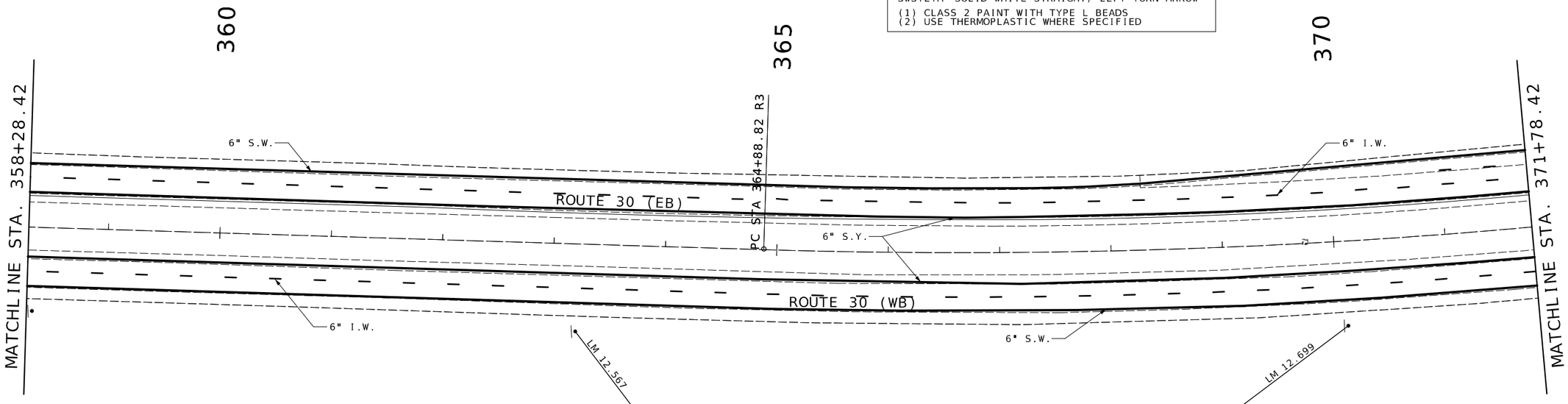
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNING AND
PAVEMENT MARKING PLANS
SHEET 27

PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED



STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:04:55 PM
STUART ROBINSON McNEIL-CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	138

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

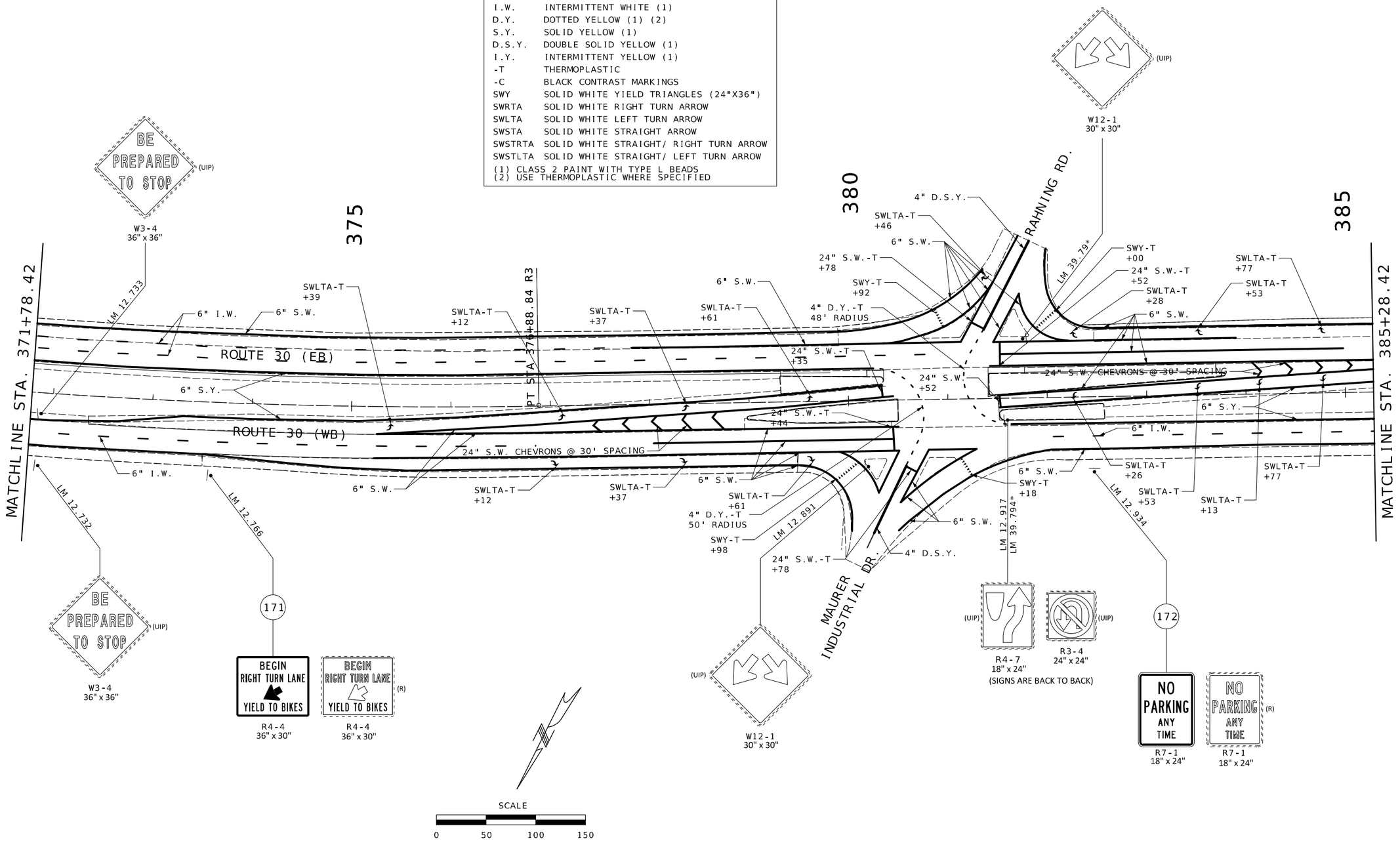
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNING AND
PAVEMENT MARKING PLANS
SHEET 28

PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.Y.	DOTTED YELLOW (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED



STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 12:52:59 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

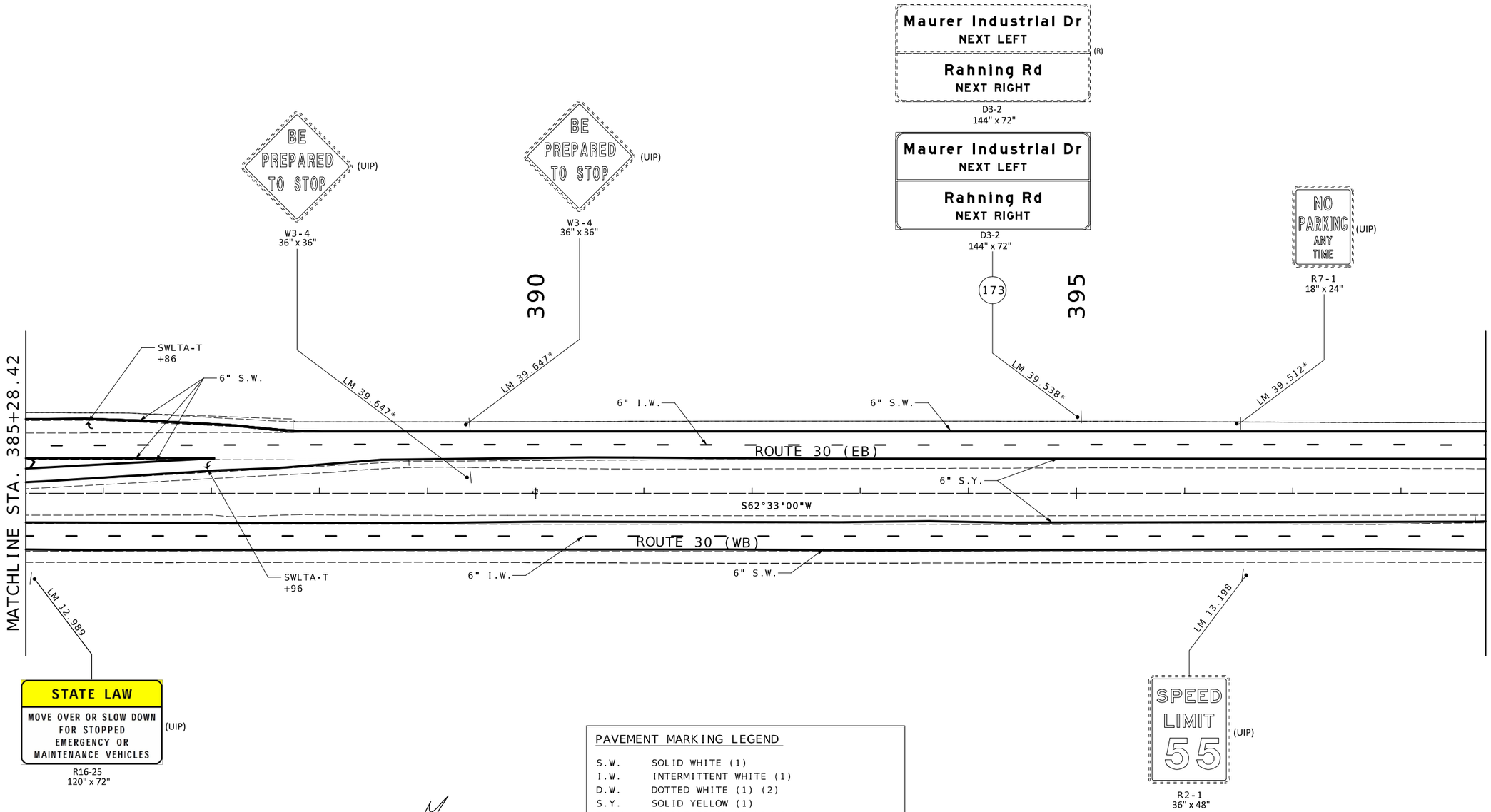
DATE PREPARED	
9/25/2025	
ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	139
COUNTY	
ST. LOUIS	
JOB NO.	
JSL0081	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SIGNING AND PAVEMENT MARKING PLANS
SHEET 29



PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
Stuart McNeil
03/30/2025 12:52:39 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	140

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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 AND
PAVEMENT MARKING PLANS
SHHET 30

PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

MATCHLINE STA. 398+78.42

MATCHLINE STA. 412+28.42

400

405

410

ROUTE 30 (EB)

ROUTE 30 (WB)

PC STA 407+56.28 R3

6" S.W.

6" I.W.

6" S.Y.

LM 39.467*

LM 13.281

LM 39.405*

LM 39.403*

REMOVE PIPE WITH ANGLED BASE, INSTALL PIPE WITH FLAT BASE

LM 39.401*

LM 39.39*

LM 39.34*

LM 13.27

LM 13.265

LM 13.285

LM 13.296

LM 13.309

LM 13.3

LM 39.384*

LM 13.379

LM 13.387

174 — R2-1 36"x48" — SPEED LIMIT 50 (R)

181 — R6-1L 54"x18" — ONE WAY

182 — R6-1R 54"x18" — ONE WAY

ONE WAY SIGNS BACK TO BACK ADD BACKING BARS

INSTALL YIELD AND LEFT ONE WAY ANTI TRAFFIC FACING

R1-2 48"x48" — YIELD

R1-2 48"x48" — YIELD (R)

ADD BACKING BARS

R6-1L 48"x18" — ONE WAY (R)

R6-1L 48"x18" — ONE WAY (R)

(UIP) R3-4 24"x24" 6AM-9AM MON-FRI

(UIP) R0-1 48"x18"

183 — R5-1 36"x36" — DO NOT ENTER

MOUNT SIGN ANTI-TRAFFIC FACING

184 — R5-1a 42"x30" — WRONG WAY

MOUNT SIGN ANTI-TRAFFIC FACING

185 — R5-1a 42"x30" — WRONG WAY

DO NOT ENTER (R) — R5-1 36"x36"

WRONG WAY (R) — R5-1a 42"x30"

175 — R5-1a 42"x30" — WRONG WAY — MOUNT SIGN ANTI-TRAFFIC FACING

176 — R5-1a 42"x30" — WRONG WAY — MOUNT SIGN ANTI-TRAFFIC FACING

177 — E1-1 204"x168" — 141 Fenton Valley Park EXIT 1 MILE

E1-1 216"x168" — 141 Fenton Valley Park EXIT 1 MILE (R)

178 — R5-1 36"x36" — DO NOT ENTER

REMOVE POST

179 — R6-1L 54"x18" — ONE WAY

R6-1L 48"x18" — ONE WAY (R)

ADD BACKING BARS

180 — R1-2 48"x48" — YIELD

R6-1L 54"x18" — ONE WAY

R6-1R 54"x18" — ONE WAY

ONE WAY SIGNS BACK TO BACK ADD BACKING BARS

R1-2 48"x48" — YIELD (R)

R6-1L 48"x18" — ONE WAY (R)

R6-1R 48"x18" — ONE WAY (R)

DO NOT ENTER (R) — R5-1 36"x36"

WRONG WAY (R) — R5-1a 42"x30"

186 — D3-2 96"x36" — W Watson Rd NEXT RIGHT

D3-2 96"x36" — W Watson Rd NEXT RIGHT (R)

REMOVE EXISTING FADED SIGN FROM POST

(UIP) — W1-2R 36"x36"

SCALE 0 50 100 150

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 12:53:36 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	141

COUNTY: ST. LOUIS

JOB NO.: JSL0081

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 AND PAVEMENT MARKING PLANS
SHEET 31

SCALE
0 50 100 150

MOUNT "ONE WAY" SIGN
ANTI-TRAFFIC FACING

(R) ONE WAY — R6-1L 48"x18"
ONE WAY (a) — R6-1L 54"x18"
(R) STOP — R1-1 48"x48"
STOP (b) — R1-1 48"x48"

(R) INTERSTATE 270 2
St Louis 8
D2-2 144"x72"

INTERSTATE 270 1 ½ MILES
E1-1 120"x84"

(UIP) W1-2L 36"x36"

(R) R3-2 48"x48" — 6AM-9AM MON-FRI — R0-1 48"x18"
(a) R3-2 48"x48" — 6AM-9AM MON-FRI (b) — R0-1 48"x18"

(R) DO NOT ENTER — R5-1 36"x36"
DO NOT ENTER — R5-1 36"x36"
(R) WRONG WAY — R5-1a 42"x30"
WRONG WAY — R5-1a 42"x30"
WRONG WAY — R5-1a 42"x30"

188 LM 39.157*
193 LM 39.064*
LM 39.02* REMOVE AND REINSTALL RED DELINEATOR
194 LM 39.021*
195 LM 39.005*
196 LM 38.98*
197 LM 38.98*

415
420
425

STA. 412+28.42
PT STA 418+58.84 R3
STA. 425+78.42
MATCHLINE
MATCHLINE

ROUTE 30 (EB)
ROUTE 30 (WB)
W WATSON RD.

6" S.W.
6" I.W.
6" S.Y.
6" D.W.
4" D.S.Y.
24" S.W.-T +22
SWSTLTA-T +01
24" S.W.-T +15
SWLTA-T +63
SWRTA-T +83
SWRTA-T +96
SWLTA-T +01
24" S.W.-T +70
LM 13.58
LM 13.625
LM 13.659
LM 13.696

188 (R) W2-2 48"x48" — (R) 400 FEET — W16-2P 30"x24"
188 (a) W2-2 48"x48" — 400 FEET (b) — W16-2P 30"x24"
189 (a) W2-2 48"x48" — (b) 400 FEET — W16-2P 30"x24"
189 (R) W2-2 48"x48" — 400 FEET (R) — W16-2P 30"x24"

190 WRONG WAY — R5-1a 42"x30" MOUNT SIGN ANTI-TRAFFIC FACING
191 WRONG WAY — R5-1a 42"x30" MOUNT SIGN ANTI-TRAFFIC FACING
192 DO NOT ENTER — R5-1 36"x36"
(R) DO NOT ENTER — R5-1 36"x36"
(R) WRONG WAY — R5-1a 42"x30"

COLLEGE
NEXT RIGHT (R)
E12-1a 168"x96"

PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:04:35 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED 9/25/2025
ROUTE 30 | STATE MO
DISTRICT SL | SHEET NO. 142
COUNTY ST. LOUIS
JOB NO. JSL0081
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION
DATE

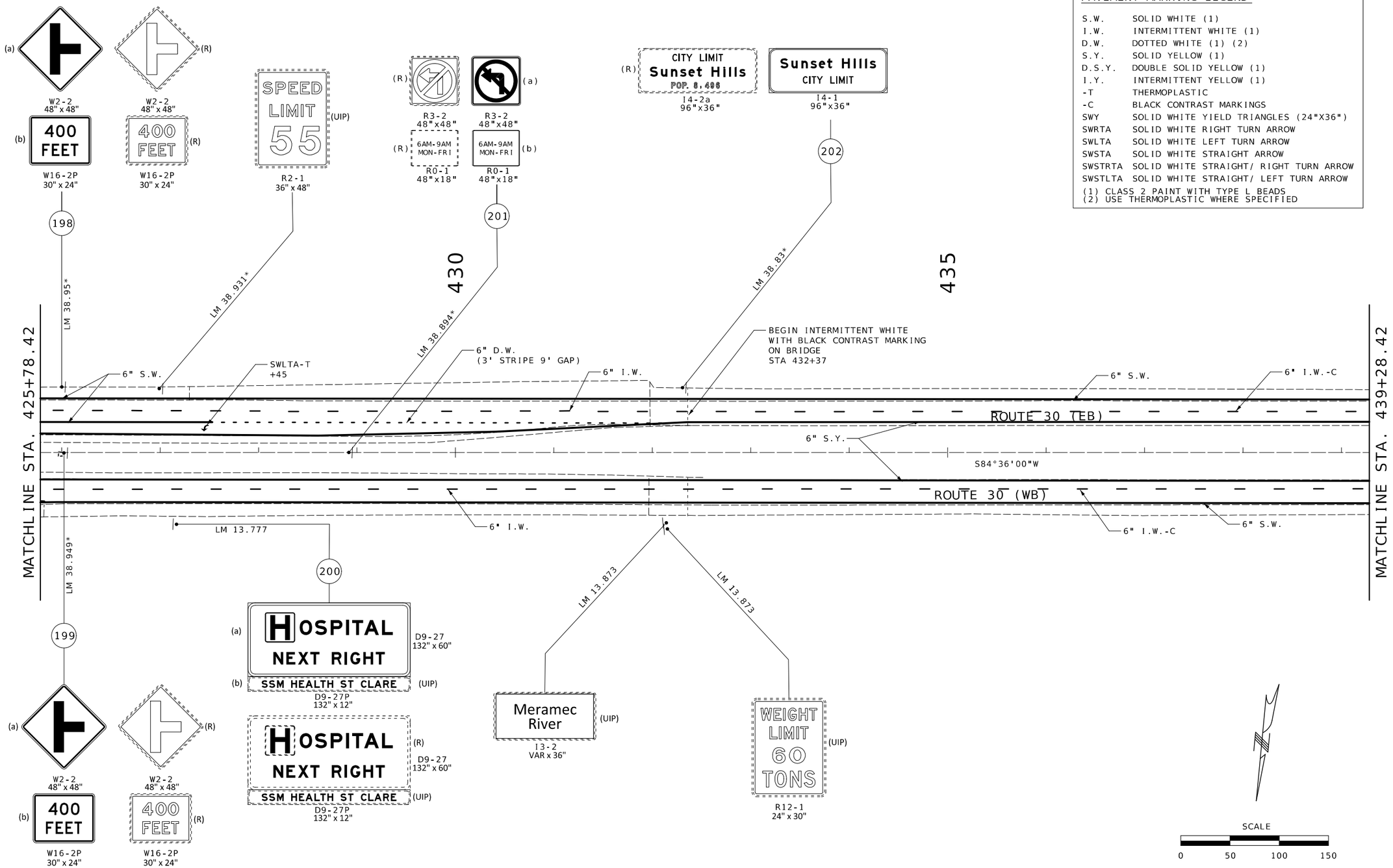
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNING AND PAVEMENT MARKING PLANS
SHEET 32

PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED



STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 12:52:27 PM
STUART ROBINSON MCNEIL -CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	143

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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 AND PAVEMENT MARKING PLANS SHEET 33

PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

440

445

450

MATCHLINE STA. 439+28.42

MATCHLINE STA. 452+78.42

POST IS LEANING.
REMOVE POST AND FOOTING AND
REINSTALL SIGN AND POST.

WEIGHT LIMIT 60 TONS
R12-1
24" x 30"
204
LM 38.566*

Meramec River (UIP)
I3-2
VAR x 36"
LM 38.583*

W Watson Rd
NEXT LEFT (R)
D3-2
96"x36"

W Watson Rd
NEXT LEFT
D3-2
96"x36"
205
LM 38.541*

W4-2R
48" x 48"
206
LM 38.512*

EAST (a)
M3-2
24" x 12"

30 (b)
M1-5
24" x 24"
207
LM 38.46*

END INTERMITTENT WHITE
WITH BLACK CONTRAST MARKING
ON BRIDGE
STA 444+67

6" S.W.
6" I.W.-C
6" D.W.
(3' STRIPE 9' GAP)
6" I.W.
6" S.Y.
PC STA 451+61.85 R3
6" S.W.
6" I.W.-C
6" I.W.

LM 14.11
SPEED LIMIT 55 (UIP)
R2-1
36" x 48"

LM 14.129
REMOVE POST

LM 14.134
203
Fenton CITY LIMIT
I4-1
60"x36"
CITY LIMIT Fenton POP. 4,022 (R)
I4-2a
60"x36"

LM 14.214
141
Fenton Valley Park (UIP)
E1-1
204" x 168"

SCALE
0 50 100 150

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 12:53:53 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	144

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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 AND
PAVEMENT MARKING PLANS
SHEET 34

SCALE
0 50 100 150

(UIP)
RIGHT LANE ENDS
W9-1R
36" x 36"

LM 38.426*

THINK... DON'T DRINK AND DRIVE (R)

LM 38.3*

(UIP)
W4-2R
36" x 36"

LM 38.3*

455

460

465

LANE REDUCTION ARROW-T
+61

6" D.W.
(3' STRIPE 9' GAP)

6" S.W.

6" I.W.

6" S.Y.

12" S.W. (GORE)

MATCHLINE STA. 452+78.42

MATCHLINE STA. 466+28.42

ROUTE 30 (EB)

ROUTE 30 (WB)

6" S.W.

6" I.W.

6" I.W.

6" S.W.

12" S.W. (GORE)

6" I.W.

6" S.W.

6" S.Y.

SWLTA-T
450' FROM
STOP BAR

6" S.W.

SWRTA-T
450' FROM
STOP BAR

LM 14.388

LM 14.388

LM 14.388

208

(R)
EXIT
40
M.P.H.
W13-2
48" x 60"

EXIT
40
M.P.H.
W13-2
48" x 60"

(UIP)
EXIT
E5-1
72" x 60"

COLLEGE
NEXT RIGHT
(R)
E12-1a
168" x 96"

PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 12:46:23 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	145

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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 AND
PAVEMENT MARKING PLANS
SHEET 35

INSTALLED ON SIGNAL MAST ARM

(R) R3-2 36" x 36" — 213

R3-2 36" x 36"

(R) LEFT TURN SIGNAL R10-10L 24" x 30"

(R) LEFT TURN SIGNAL R10-10L 24" x 30"

(R) NO TURN ON RED R10-10L 48" x 48"

REMOVE 2 SIGNS INSTALLED ON SIGNAL MAST ARM

(a) NO TURN ON RED R10-11a 48" x 48" ON SIGNAL POST — 214

(b) LEFT TURN SIGNAL R10-10L 24" x 30"

(c) LEFT TURN SIGNAL R10-10L 24" x 30"

2 SIGNS INSTALLED ON SIGNAL MAST ARM

(R) WRONG WAY R5-1a 42" x 30"

LM 0.157**

LM 0.164**

(UIP) EXIT E5-1

EXIT 40 M.P.H. W13-2 48" x 60" — 217

(R) EXIT 40 M.P.H. W13-2

LM 38.03*

LM 38.003*

WRONG WAY R5-1a 42" x 30" — 210

DO NOT ENTER R5-1 48" x 48" — 212

(R) DO NOT ENTER R5-1 48" x 48"

(R) WRONG WAY R5-1a 42" x 30"

470

ROUTE 141

475

MATCHLINE STA. 466+28.42

ROUTE 30 (EB)

ROUTE 30 (WB)

MATCHLINE STA. 479+78.42

LM 0.179**

LM 0.217**

(R) DO NOT ENTER R5-1 48" x 48"

LM 0.226*

LM 0.078**

LM 0.15**

ON SIGNAL POST (R) LEFT TURN SIGNAL R10-10L 24" x 30" — 215

LM 0.251**

LM 0.241**

(R) COLLEGE NEXT RIGHT E12-1a 168" x 96"

218

LM 0.174**

209

LM 0.189**

211

216

(R) W4-2R 48" x 48"

(R) W4-2R 36" x 36"

WRONG WAY R5-1a 42" x 30"

(R) WRONG WAY R5-1a 42" x 30"

(a) H D9-2 24" x 24"

(R) H D9-2 24" x 24"

(b) SSM HEALTH ST CLARE D9-2P 24" x 12"

(R) SSM HEALTH ST CLARE D9-2P 24" x 12"

(c) M6-1 21" x 15"

(R) M6-1 21" x 15"

(UIP) SOUTH ONLY 141 ONLY E1-1

(UIP) NORTH 141 ONLY E1-1

(a) SOUTH M3-3 24" x 12"

(b) NORTH M3-1 24" x 12"

(c) 141 M1-5 30" x 24"

(d) 141 M1-5 30" x 24"

(e) M6-1 21" x 15"

(f) M6-1 21" x 15"

(R) SOUTH M3-3 24" x 12"

(R) NORTH M3-1 24" x 12"

(R) 141 M1-5 30" x 24"

(R) 141 M1-5 30" x 24"

(R) M6-1L 21" x 15"

(R) M6-1R 21" x 15"

SCALE 0 50 100 150

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
05/30/2025 12:46:09 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED 9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	146

COUNTY ST. LOUIS

JOB NO. JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

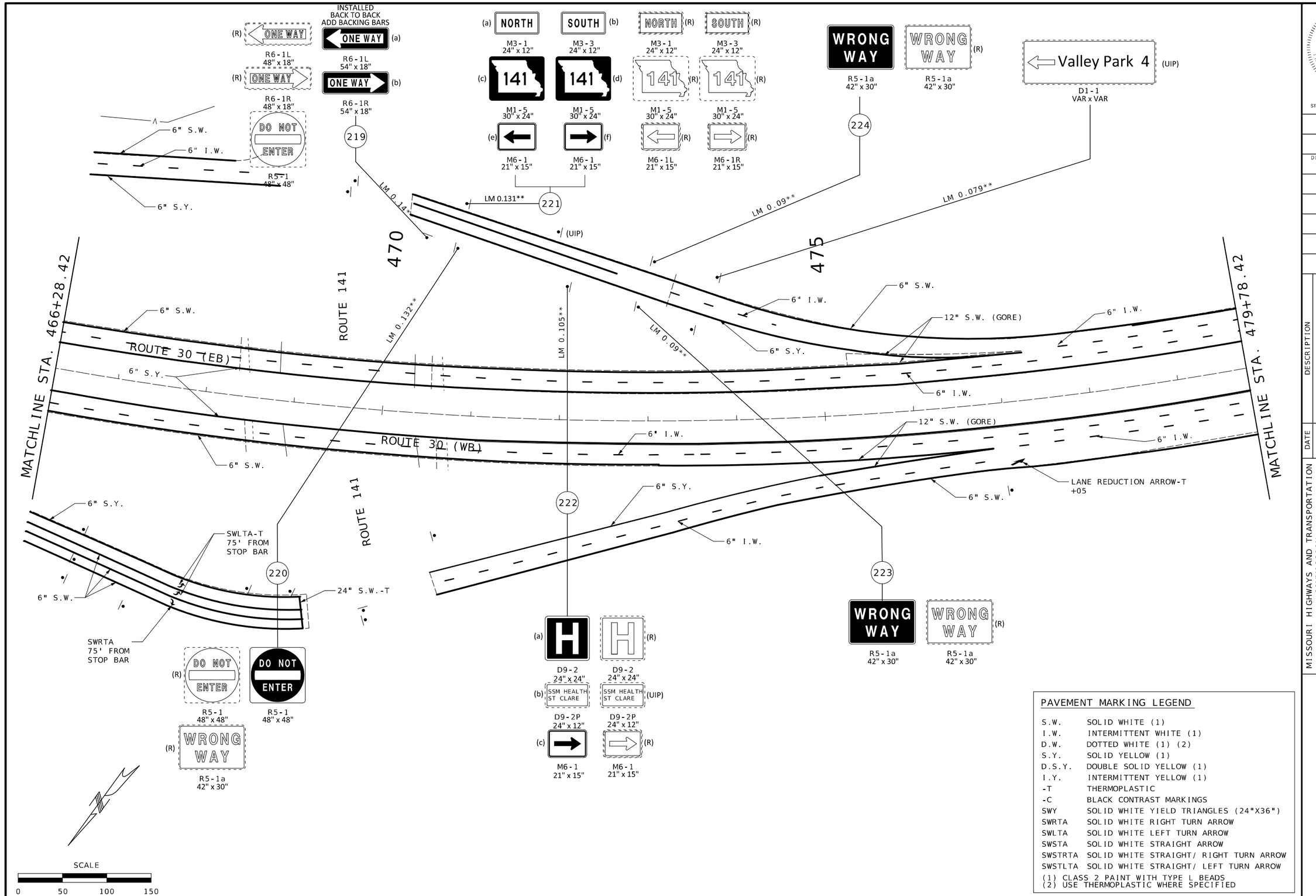
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT

SIGNING AND PAVEMENT MARKING PLANS SHEET 36A



PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 12:53:09 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED 9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	147

COUNTY ST. LOUIS
JOB NO. JSL0081
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 AND PAVEMENT MARKING PLANS
SHEET 36B

PAVEMENT MARKING LEGEND

S.W.	SOLID WHITE (1)
I.W.	INTERMITTENT WHITE (1)
D.W.	DOTTED WHITE (1) (2)
S.Y.	SOLID YELLOW (1)
D.S.Y.	DOUBLE SOLID YELLOW (1)
I.Y.	INTERMITTENT YELLOW (1)
-T	THERMOPLASTIC
-C	BLACK CONTRAST MARKINGS
SWY	SOLID WHITE YIELD TRIANGLES (24"X36")
SWRTA	SOLID WHITE RIGHT TURN ARROW
SWLTA	SOLID WHITE LEFT TURN ARROW
SWSTA	SOLID WHITE STRAIGHT ARROW
SWSTRTA	SOLID WHITE STRAIGHT/ RIGHT TURN ARROW
SWSTLTA	SOLID WHITE STRAIGHT/ LEFT TURN ARROW

(1) CLASS 2 PAINT WITH TYPE L BEADS
(2) USE THERMOPLASTIC WHERE SPECIFIED

480

MATCHLINE STA. 479+78.42

6" I.W.

6" S.W.

6" S.Y.

6" S.Y.

END OF PROJECT
STA 483+94.850
LOG MILE 36.97

6" I.W.

6" S.W.

PT STA 484+77.41 R3

ROUTE 30 (EB)

ROUTE 30 (WB)

MATCHLINE STA. 493+28.42

490

(R) 141 Fenton Valley Park
E1-1
204"x168"

141 Fenton Valley Park
E1-1
204"x168"

225

LM 37.844*

ONE WAY (UIP)
R6-1L
48" x 18"

YIELD (R)
R1-2
48" x 48"

YIELD
R1-2
48" x 48"

231

LM 37.731*

LM 14.974

230

RIGHT LANE ENDS
W9-1R
48" x 48"

RIGHT LANE ENDS (R)
W9-1R
36" x 36"
REMOVE POST WITH ANGLED BASE,
INSTALL NEW POST WITH FLAT BASE

229

DO NOT ENTER
R5-1
36" x 36"
INSTALL SIGN
ANTI-TRAFFIC FACING

LM 14.969

DO NOT ENTER (R)
R5-1
36" x 36"

WRONG WAY (R)
R5-1a
42" x 30"

LM 14.94

228

WRONG WAY
R5-1a
42" x 30"
INSTALL SIGN
ANTI-TRAFFIC FACING

LM 14.94

227

WRONG WAY
R5-1a
42" x 30"
INSTALL SIGN
ANTI-TRAFFIC FACING

LM 14.915

226

(R) WEST
M3-4
24" x 12"

WEST (a)
M3-4
24" x 12"

(R) 30
M1-5
24" x 24"

30 (b)
M1-5
24" x 24"

LM 14.869

(UIP) SPEED LIMIT 55
R2-1
36" x 48"

SCALE
0 50 100 150

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 12:52:08 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	148

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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 AND
PAVEMENT MARKING PLANS
SHEET 37

EFFECTIVE: 07-01-2024

SIGNS

902 SIGNAL SIGNS TABULATED ON D-37A SHEET

SIGN NO.	SIGN SIZE	STATION	HORZ CLEAR IF NOT STD.	LOCATION (ROUTE)	LT OR RT	SIGN DTL. SHT. NO.
1	36X48	5.697		ROUTE 30	RT	
2	18X24	5.797		ROUTE 30	RT	
3	42X48	5.920		ROUTE 30	RT	
8	24X36	6.14		ROUTE 30	RT	
14	ASSEMB.	6.397		ROUTE 30	RT	
15	30X36	6.473		ROUTE 30	RT	
16	18X24	6.516		ROUTE 30	RT	
18	36X48	6.799		ROUTE 30	RT	
21	ASSEMB.	6.893		ROUTE 30	RT	
22	ASSEMB.	6.909		ROUTE 30	RT	
23	ASSEMB.	45.76*		ROUTE 30	LT	
34	ASSEMB.	7.311		ROUTE 30	RT	
37	ASSEMB.	45.327*		ROUTE 30	LT	
41	ASSEMB.	7.633		ROUTE 30	RT	
43	ASSEMB.	7.696		ROUTE 30	RT	
47	ASSEMB.	44.95*		ROUTE 30	LT	
54	ASSEMB.	7.906		ROUTE 30	RT	
55	ASSEMB.	44.787*		ROUTE 30	RT	
60	18X24	8.249		ROUTE 30	RT	
62	18X24	8.264		ROUTE 30	RT	
63	18X24	8.282		ROUTE 30	RT	
64	36X36	8.408		ROUTE 30	RT	
65	ASSEMB.	8.445		ROUTE 30	RT	
68	ASSEMB.	8.556		ROUTE 30	RT	
74	ASSEMB.	8.662		ROUTE 30	RT	
78	18X24	9.026		ROUTE 30	RT	
79	36X48	9.142		ROUTE 30	RT	
80	36X48	43.374*		ROUTE 30	LT	
86	48X48	43.219*		ROUTE 30	LT	
88	ASSEMB.	9.525		ROUTE 30	RT	
91	ASSEMB.	9.633		ROUTE 30	RT	
93	ASSEMB.	9.641		ROUTE 30	RT	
94	18X24	9.650		ROUTE 30	RT	
96	18X24	9.688		ROUTE 30	RT	
97	18X24	9.710		ROUTE 30	RT	
99	18X24	9.723		ROUTE 30	RT	
100	18X24	9.744		ROUTE 30	RT	
103	36X48	42.835*		ROUTE 30	LT	
104	36X36	42.704*		ROUTE 30	LT	
105	18X24	10.059		ROUTE 30	RT	
106	36X48	42.625*		ROUTE 30	LT	
107	36X48	10.191		ROUTE 30	RT	
108	36X36	10.400		ROUTE 30	RT	
112	48X48	42.095*		ROUTE 30	LT	
114	ASSEMB.	10.635		ROUTE 30	LT	
116	ASSEMB.	10.649		ROUTE 30	RT	
118	ASSEMB.	10.804		ROUTE 30	RT	
119	36X48	41.897*		ROUTE 30	LT	
120	36X30	10.869		ROUTE 30	RT	
121	ASSEMB.	10.912		ROUTE 30	RT	
123	ASSEMB.	41.762*		ROUTE 30	LT	
127	36X48	11.087		ROUTE 30	RT	
130	ASSEMB.	41.513*		ROUTE 30	LT	
131	36X12	41.5*		ROUTE 30	LT	
133	ASSEMB.	11.282		ROUTE 30	RT	
134	96X84	11.299		ROUTE 30	RT	
135	96X84	41.373*		ROUTE 30	LT	
136	ASSEMB.	41.275*		ROUTE 30	RT	
137	108x84	11.546		ROUTE 30	RT	
139	36X30	11.614		ROUTE 30	RT	
				SUBTOTAL 1		

SIGN NO.	CONCRETE FOOTINGS EMBEDED	STRUCTURAL STEEL POSTS**						PIPE POSTS**					BACKING BARS***					U-CHANNEL POST
		POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL ITEM NO. 9031210	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	2" X 3/8" BARS @ 2.55 LBS PER FT NO. EACH	LGTH IN.	TOTAL LF	NO. LBS		ITEM NO. 9031250A
	ITEM NO. 9031010		LF	LF	LF		LBS	IN.	LF	LF		LBS						LF
1																		
2																		
3	0.13							2.5	15.5		5.79	90						
8																		
14																		
15																		
16																		
18																		
21	0.13							2.5	17.25		5.79	100						
22																		
23																		
34																		
37	0.13							2.5	15.75		5.79	91						
41	0.13							2.5	15.75		5.79	91						
43																		
47																		
54																		
55																		
60																		
62																		
63																		
64																		
65	0.13							2.5	17.25		5.79	100						
68																		
74																		
78																		
79																		
80																		
86																		
88																		
91																		
93																		
94																		
96																		
97																		
99																		
100																		
103																		
104																		
105																		
106																		
107																		
108																		
112																		
114	0.72							4	18.50	18.50	10.79	399						
116																		
118	0.36							4	17.75		10.79	192	2	50	8.33	21.2		
119																		
120																		
121	0.36							4	19.25		10.79	208	8	50	33.33	85.0		
123	0.36							4	19.25		10.79	208	8	50	33.33	85.0		
127									0.00									
130	0.13							2.5	14.50		5.29	77						
131	0.13							2.5	12.50		5.29	66						
133																		
134	0.28	1	17.75	17.75		9	320											
135	0.28	1	17.75	17.75		9	320											
136	0.13							2.5	17.25		5.29	91						
137	0.28	1	17.50	19.00		9	330											
139																		
	3.7						970					1903				190	0	

PERFORATED SQUARE STEEL TUBE

SIGN NO.	2 IN. POST						2.5 IN. POST						BREAK-AWAY ASSEMBLY	REMARKS AND OTHER REQUIRED ITEMS
	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031270A	ANCHORS DRIVEN 12-GA. ITEM NO. 9031271A	ANCHORS DRIVEN 7-GA. ITEM NO. 9031273A	ANCHORS CONCRETE 7-GA. ITEM NO. 9031274	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031280	2.25" INSERT (6 FT) ITEM NO. 9031272A	ANCHORS DRIVEN 7-GA. ITEM NO. 9031281A	ANCHORS CONCRETE 7-GA. ITEM NO. 9031285	ITEM NO. 9031241	
	LF	LF	LF	EA	EA	EA	LF	LF	LF	EA	EA	EA	EA	
1	11.50		11.50	1										
2	9.50		9.50	1										
3														
8	10.50		10.50	1										
14							10.50		10.50		1			
15							10.50		10.50		1			
16	9.50		9.50	1										
18							11.50		11.50		1			
21														
22	8.50		8.50	1										
23	10.50		10.50	1										
34	10.50		10.50	1										
37														
41														
43	10.75		10.75	1										
47	10.50		10.50	1										
54	10.50		10.50	1										
55	10.75		10.75	1										
60	9.50		9.50	1										
62	9.50		9.50	1										
63	9.50		9.50	1										
64							10.50		10.50		1			
65														
68	11.50		11.50	1										
74	11.50		11.50	1										
78	9.50		9.50	1										
79							11.50		11.50		1			
80							11.50		11.50		1			
86	11.00		11.00	1										
88							13.25		13.25		1			
91	9.50		9.50	1										
93	9.50		9.50	1										
94	10.25		10.25	1										
96	10.25		10.25	1										
97	9.50		9.50	1										
99	9.50		9.50	1										
100	9.50		9.50	1										
103							11.50		11.50		1			
104							10.50		10.50		1			
105	9.50		9.50	1										
106							11.50		11.50		1			
107							11.50		11.50		1			
108							10.50		10.50		1			
112	11.75		11.75	1										
114	10.00		10.00	1										
116							13.25		13.25		1			
118														
119							11.50		11.50		1			
120							10.00		10.00		1			
121														
123														
127							11.50		11.50		1			
130														
131														
133							10.50		10.50		1			
134														
135														
136														
137														
139	11.00		11.00	1										
	295	29	0	0			192	0	17	0	0			

*PROJECT LM BASED ON EB DIRECTION

** BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
*** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

ROUND PIPE POST AND FOOTING DATA TABLE

NOM.SIZE	WEIGHT		STUB LENGTH	FOOTING		CONCRETE
(IN.)	LBS/FT	LBS/IN		DIA.	DEPTH	C.Y.
2½	5.79	0.48	4'- 3½"	12"	4~6"	0.13
4	10.79	0.90	5'- 3½"	18"	5~6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST DES. NO.	POST NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	POST STUB LENGTH	FOOTING DIA.	LEVEL GROUND DEPTH	LEVEL GROUND C.Y.	6:1 GRADE DEPTH	6:1 GRADE C.Y.	4:1 GRADE DEPTH	4:1 GRADE C.Y.	3:1 OR 2:1 GRADE DEPTH	3:1 OR 2:1 GRADE 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

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 12:46:38 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/25/2025

ROUTE: MO | STATE

DISTRICT: SL | SHEET NO.: 149

COUNTY: ST. LOUIS

JOB NO.: JSL0081

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)

D-29
SHEET 1 OF 3

SIGNS 902 SIGNAL SIGNS TABULATED ON D-37A SHEET							CONCRETE FOOTINGS EMBEDED	STRUCTURAL STEEL POSTS**						PIPE POSTS**					BACKING BARS***				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE												BREAK-AWAY ASSEMBLY	EFFECTIVE: 07-01-2024 REMARKS AND OTHER REQUIRED ITEMS
																			2" X 3/8" BARS @ 2.55 LBS PER FT					2 IN. POST						2.5 IN. POST							
																								ANCHORS					ANCHORS							
SIGN NO.	SIGN SIZE	LOCATION	HORZ CLEAR IF NOT STD.	LOCATION (ROUTE)	LT OR RT	SIGN DTL. SHT. NO.	ITEM NO. 9031010	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL ITEM NO. 9031210	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	NO. EACH	LGTH IN.	TOTAL LF	NO. LBS	ITEM NO. 9031250A	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031270A	DRIVEN 12-GA. ITEM NO. 9031271A	DRIVEN 7-GA. ITEM NO. 9031273A	CONCRETE 7-GA. ITEM NO. 9031274	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031280	2.25" INSERT (6 FT) ITEM NO. 9031272A	DRIVEN 7-GA. ITEM NO. 9031281A	CONCRETE 7-GA. ITEM NO. 9031285	ITEM NO. 9031241	
							CY		LF	LF	LF		LBS	IN.	LF	LF		LBS	EACH	IN.	LF	LBS	LF	LF	LF	LF	EA	EA	EA	LF	LF	LF	EA	EA	EA	EA	
140	36X36	41.033*		ROUTE 30	LT		0.13							2.5	15.75		5.79	91																			
142	36X36	40.952*		ROUTE 30	LT		0.13							2.5	14.75		5.79	85																			
143	ASSEMB.	11.763		ROUTE 30	RT		0.13							2.5	18.00		5.79	104	6	50	25.00	63.8															
147	48X48	11.822		ROUTE 30	RT		0.36							4	17.75		10.79	192																			
159	ASSEMB.	40.747*		ROUTE 30	LT		0.13							2.5	16.25		5.79	94	6	50	25.00	63.8															
160	30X30	40.705*		ROUTE 30	LT																			11.00		11.00	1										
162	48X48	12.014		ROUTE 30	RT		0.13							2.5	18.00		5.79	104																			
166	36X36	12.210		ROUTE 30	RT		0.13							2.5	16.50		5.79	96																			
167	36X36	12.307		ROUTE 30	RT									2.5	17.50		5.79	101																			
168	96X84	40.268*		ROUTE 30	LT		0.28	1	20.25	22.00		9	380																								
169	ASSEMB.	12.470		ROUTE 30	RT		0.13							2.5	15.25		5.79	88																			
172	18X24	12.934		ROUTE 30	RT																			11.75		11.75	1										
175	42X30	13.270		ROUTE 30	RT		0.13							2.5	16.50		5.79	96																			
176	42X30	13.270		ROUTE 30	RT		0.13							2.5	16.50		5.79	96																			
178	36X36	13.285		ROUTE 30	RT		0.13							2.5	15.75		5.79	91																			
179	54X18	13.296		ROUTE 30	RT													0	2	50	8.33	21.2														
180	ASSEMB.	13.300		ROUTE 30	RT		0.36							4	18.25		10.79	197																			
181	54X18	39.405*		ROUE 30	LT														2	50	8.33	21.2															
182	ASSEMB.	39.403*		ROUTE 30	LT		0.36							4	19.00		10.79	205																			
183	36X36	39.39*		ROUTE 30	LT		0.13							2.5	15.50		5.79	90																			
184	42X30	39.34*		ROUTE 30	LT		0.13							2.5	15.25		5.79	88																			
185	42X30	39.34*		ROUTE 30	RT		0.13							2.5	15.25		5.79	88																			
190	42X30	13.625		ROUTE 30	LT		0.13							2.5	15.25		5.79	88																			
191	42X30	13.625		ROUTE 30	LT		0.13							2.5	15.25		5.79	88																			
193	36X36	39.020		ROUTE 30	RT		0.36							4	19.50		10.79	210	2	50	8.33	21.2															
196	42X30	38.980		ROUTE 30	RT		0.13							2.5	15.25		5.79	88																			
197	42X30	38.980		ROUTE 30	RT		0.13							2.5	15.25		5.79	88																			
206	48X48	38.512		ROUTE 30	RT		0.13							2.5	17.50		5.79	101																			
207	ASSEMB.	38.460		ROUTE 30	RT																			12.25		12.25	1										
223	42X30	0.09**	141	EB EXIT RAMP			0.13							2.5	15.75		5.79	91																			
224	42X30	0.09**	141	EB EXIT RAMP			0.13							2.5	15.75		5.79	91																			
227	42X30	14.940		ROUTE 30			0.13							2.5	15.75		5.79	91																			
228	42X30	14.940		ROUTE 30			0.13							2.5	15.75		5.79	91																			
229	36X36	14.972		ROUTE 30			0.13							2.5	16.25		5.79	94																			
230	48X48	14.974		ROUTE 30			0.13							2.5	19.00		5.79	110																			
232	ASSEMB.	45.951*		ROUTE 30	RT																												13.25		13.25		1		
233	48X48	44.914*		ROUTE 30	RT																			11.00		11.00	1										
234	ASSEMB.	44.910*		ROUTE 30	RT																												13.25		13.25		1		
235	ASSEMB.	8.010		ROUTE 30	RT																												13.25		13.25		1		
236	ASSEMB.	44.698*		ROUTE 30	RT																												13.25		13.25		1		
237	48X48	8.015		ROUTE 30	RT																			11.00		11.00	1										
238	ASSEMB.	8.401*		ROUTE 30	RT																												13.25		13.25		1		
239	48X48	8.405		ROUTE 30	RT																			11.00		11.00	1										
240	ASSEMB.	43.239*		ROUTE 30	RT																												13.25		13.25		1		
241	ASSEMB.	43.217*		ROUTE 30	RT																												13.25		13.25		1		
242	ASSEMB.	9.586		ROUTE 30	RT																												13.25		13.25		1		
243	48X48	9.592		ROUTE 30	RT																			11.00		11.00	1										
244	ASSEMB.	42.095*		ROUTE 30	RT																												13.25		13.25		1		
245	30X30	11.658		ROUTE 30	RT																			11.00		11.00	1										
246	30X30	11.670		ROUTE 30	RT																			11.00		11.00	1										
	48X48			ROUTE 30W			0.36							4	17.50		5.29	93																			POST REPLACEMENT AT 30 AND SAPPINGTON (2) "DO NOT ENTER" SIGNS. REINSTALL DELINEATORS
	48X48			ROUTE 30E			0.36							4	17.50		5.29	93																			
	48X48			ROUTE 30			0.36							4	16.50		5.29	87																			
	48X48			ROUTE 30			0.36							4	16.50		5.29	87																			POST REPLACEMENT AT 30 AND LOCKHAVEN (2) YIELD SIGNS, (3) DO NOT ENTER SIGNS. REINSTALL DELINAETORS
	48X48			ROUTE 30E			0.36							4	17.50		5.29	93																			
	48X48			ROUTE 30W			0.36							4	17.50		5.29	93																			
	48X48			ROUTE 30W			0.36							4	17.50		5.29	93																			
	36X36			ROUTE 30E			0.36							4	16.25		5.29	86																			
	36X12			ROUTE 30E			0.36							4	14.25		5.29	75																			POST REPLACEMENT AT 30 AND HADLEY HILL (2) YIELD SIGNS, (1) STOP, (1) ONE WAY SIGN
	48X48			ROUTE 30			0.36							4	16.75		5.29	89																			
	48X48			ROUTE 30E			0.36							4	16.75		5.29	89																			(1)DO NOT ENTER SIGN
	48X48			ROUTE 30W			0.36							4	14.50		5.29	77																			REINSTALL DELINEATORS
	48X48			ROUTE 30			0.36							4	14.50		5.29	77																			POST REPLACEMENT AT LANDMARK
	48X48			ROUTE 30W			0.36							4	14.50		5.2	75																			(2) DO NOT ENTER SIGNS, (1) YIELD SIGN
	48X48			ROUTE 30E			0.36							4	16.75		5.29	89																			REINSTALL DELINEATORS
	12X18			COMMUTER LOT																			67.50		67.5	9										COMMUTER LOT - 9 SIGNS
				SUBTOTAL 2			10.2						380					4612				191	0			169	18	0	0			119	0	9	0	0		

ROUND PIPE POST AND FOOTING DATA TABLE

NOM.SIZE	WEIGHT		STUB LENGTH	FOOTING		CONCRETE
(IN.)	LBS/FT	LBS/IN		DIA.	DEPTH	C.Y.
2½	5.79	0.48	4'- 3½"	12"	4~6"	0.13
4	10.79	0.90	5'- 3½"	18"	5~6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	FOOTING LEVEL GROUND DEPTH	FOOTING LEVEL GROUND C.Y.	FOOTING 6:1 GRADE DEPTH	FOOTING 6:1 GRADE C.Y.	FOOTING 4:1 GRADE DEPTH	FOOTING 4:1 GRADE C.Y.	FOOTING 3:1 OR 2:1 GRADE DEPTH	FOOTING 3:1 OR 2:1 GRADE 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

* LM BASED ON EB DIRECTION.
** BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
*** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2009019687
PROFESSIONAL ENGINEER
05/30/2025 2:28:51 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2009019687

DATE PREPARED: 9/25/2025
ROUTE: 30
STATE: MO
DISTRICT: SL
SHEET NO.: 150
COUNTY: ST. LOUIS
JOB NO.: JSL0081
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)

D-29
SHEET 2 OF 3

EFFECTIVE: 07-01-2024

	CONCRETE FOOTINGS EMBEDED	STRUCTURAL STEEL POSTS**						PIPE POSTS **					BACKING BARS***				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE											
														2" X 3/8" BARS @ 2.55 LBS PER FT					2 IN. POST						2.5 IN. POST					
																					ANCHORS						ANCHORS		
	ITEM NO. 9031010	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL ITEM NO 9031210	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	NO. EACH	LGTH IN.	TOTAL LF	NO. LBS	ITEM NO. 9031250A	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031270A	DRIVEN 12-GA. ITEM NO. 9031271A	DRIVEN 7-GA. ITEM NO. 9031273A	CONCRETE 7-GA. ITEM NO. 9031274	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031280	2.25" INSERT (6 FT) ITEM NO. 9031272A	DRIVEN 7-GA. ITEM NO. 9031281A	CONCRETE 7-GA. ITEM NO. 9031285	BREAK-AWAY ASSEM. ITEM NO. 9031241
	CY		LF	LF	LF		LBS	IN.	LF	LF		LBS		IN.	LF	LBS	LF	LF	LF	LF	EA	EA	EA	LF	LF	LF	EA	EA	EA	EA
SUBTOTAL 1	3.7						970					1903				190	0.0			295	29	0	0			192	0	17	0	0
SUBTOTAL 2	10.2						380					4612				191	0.0			169	18	0	0			119	0	9	0	0
PAY TOTAL	13.9						1350					6900				-	0			464	47	0	0			311	0	26	0	-

** BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
*** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

ROUND PIPE POST AND FOOTING DATA TABLE

NOM.SIZE	WEIGHT		STUB LENGTH	FOOTING		CONCRETE
(IN.)	LBS/FT	LBS/IN		DIA.	DEPTH	C.Y.
2½	5.79	0.48	4'- 3½"	12"	4~6"	0.13
4	10.79	0.90	5'- 3½"	18"	5~6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	FOOTING LEVEL GROUND DEPTH	FOOTING LEVEL GROUND C.Y.	FOOTING 6:1 GRADE DEPTH	FOOTING 6:1 GRADE C.Y.	FOOTING 4:1 GRADE DEPTH	FOOTING 4:1 GRADE C.Y.	FOOTING 3:1 OR 2:1 GRADE DEPTH	FOOTING 3:1 OR 2:1 GRADE 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

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:29:28 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	151

COUNTY
ST. LOUIS

JOB NO.
JSL0081

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)

D-29
SHEET 3 OF 3

EFFECTIVE: 10-01-2016

STANDARD SIGN ASSEMBLIES (1 OF 5)

SIGN NUMBER	STATION	LOCATION	TYPE	SIGN DESCRIPTION, SIZES & NUMBER OF EACH
			SH M1-1	270 M1-1 30"x24"
			SH M1-4	50 M1-4 24"x24"
			SH M1-4	61 M1-4 24"x24"
			SH M1-4	67 M1-4 24"x24"
			SH M1-5	21 M1-5 24"x24"
			SH M1-5	30 M1-5 24"x24"
			SH M1-5	141 M1-5 30"x24"
			SH M1-5a	P M1-5a 24"x24"
			SH M2-1 WHITE	JCT M2-1 21"x15"
			SH M3-1 BLUE	NORTH M3-1 24"x12"
			SH M3-1 WHITE	NORTH M3-1 24"x12"
			SH M3-2 WHITE	EAST M3-2 24"x12"
			SH M3-3 BLUE	SOUTH M3-3 24"x12"
			SH M3-3 WHITE	SOUTH M3-3 24"x12"
			SH M3-4 WHITE	WEST M3-4 24"x12"
			SH M5-1L BLUE	M5-1L 21"x15"
			SH M5-1R BLUE	M5-1R 21"x15"
			SH M6-1 BLUE	M6-1 21"x15"
			SH M6-1 WHITE	M6-1 21"x15"
			SH M6-2R BLUE	M6-2R 21"x15"
			SH M6-3 BLUE	M6-3 21"x15"
			SH M6-3 WHITE	M6-3 21"x15"
			SH R1-2	R1-2 48"x48"
			SH R1-2	R1-2 60"x60"
			SH R2-1	SPEED LIMIT 35 R2-1 36"x48"
			SH R2-1	SPEED LIMIT 40 R2-1 36"x48"
			SH R3-1	R3-1 24"x24"
			SH R3-2	R3-2 36"x36"
			SH R3-9b	CENTER LANE ONLY R3-9b 24"x36"
			SH R4-4	REGEN NOT TOLLED WHEN FLASHING R4-4 36"x30"
			SH R4-7	R4-7 24"x30"
			SH R5-1	DO NOT ENTER R5-1 30"x30"
			SH R5-1	DO NOT ENTER R5-1 36"x36"
			SH R6-1L	ONE WAY R6-1L 36"x12"
			SH R6-1L	ONE WAY R6-1L 54"x18"
			SH R6-1R	ONE WAY R6-1R 36"x12"
			SH R6-1R	ONE WAY R6-1R 54"x18"
			SH R7-1	NO PARKING ANY TIME R7-1 18"x24"
			SH R7-1D	NO PARKING ANY TIME R7-1D 18"x24"
			SH R7-1L	NO PARKING ANY TIME R7-1L 18"x24"
			SH R10-13	EMERGENCY SIGNAL R10-13 36"x24"
			SH R10-13	EMERGENCY SIGNAL R10-13 60"x30"
			SH R10-15R	TURNING VEHICLES YIELD TO PEDESTRIANS R10-15R 30"x30"
			SHF W11-1	W11-1 36"x36"
			SHF W11-2	W11-2 36"x36"
			SHF W12-1	W12-1 30"x30"
			SHF W12-1	W12-1 36"x36"
			SHF W12-2a	W12-2a 84"x24"
			SHF W13-2	13 FT 9 IN W13-2 48"x60"
			SHF W16-1P	EXIT 40 M.P.H. W16-1P 24"x18"
			SH D3-2	IN ROAD TO Hwy 61 NORTH NEXT RIGHT D3-2 42"x48"
1	5.697	ROUTE 30 - RT		1
2	5.797	ROUTE 30 - RT		1
3	5.920	ROUTE 30 - RT		1
4	5.983	ROUTE 30 - LT		1 1
5	46.658*	ROUTE 30 - RT		1
6	46.655*	ROUTE 30 - LT		1
7	6.061	ROUTE 30 - RT		1 1 1
8	6.140	ROUTE 30 - RT		1
9	46.55*	ROUTE 30 - LT		1
10	46.396*	ROUTE 30 - LT		1
11	6.329	ROUTE 30 - RT		1 1 1
12	6.339	ROUTE 30 - RT		1 1
13	46.369*	ROUTE 30 - LT		1 1
14	6.397	ROUTE 30 - RT	1	1
15	6.473	ROUTE 30 - RT		1
16	6.516	ROUTE 30 - RT		1
17	46.096*	ROUTE 30 - LT	1 1	
18	6.799	ROUTE 30 - RT		1
19	45.895*	ROUTE 30 - LT		1
20	45.875*	ROUTE 30 - LT		1
21	6.893	ROUTE 30 - RT		
22	6.909	ROUTE 30 - RT		1 1
23	45.76*	ROUTE 30 - LT	1 1	
24	45.756*	ROUTE 30 - LT		1 1
25	6.983	ROUTE 30 - RT		1 1
26	7.195	ROUTE 30 - RT	1 1	
27	45.502*	ROUTE 30 - LT		1
28	7.226	ROUTE 30 - RT		1
29	7.232	ROUTE 30 - RT		1
30	7.264	ROUTE 30 - RT	1 1	1 1
31	45.445*	ROUTE 30 - LT		1
32	7.296	ROUTE 30 - RT		1
33	45.408*	ROUTE 30 - LT	1 1	1 1
34	7.311	ROUTE 30 - RT	1 1	1
35	45.392*	ROUTE 30 - LT		1
36	45.377*	ROUTE 30 - LT	1 1	
37	45.327*	ROUTE 30 - LT		1 1
38	7.427	ROUTE 30 - RT		1
39	7.464	ROUTE 30 - RT		1
40	45.214*	ROUTE 30 - LT		1
41	7.633	ROUTE 30 - RT		1 1
42	45.035*	ROUTE 30 - LT		1
43	7.696	ROUTE 30 - RT	1 1	
44	7.699	ROUTE 30 - LT		1
45	44.968*	ROUTE 30 - LT		1 1 1
46	7.753	ROUTE 30 - RT		1 1
47	44.95*	ROUTE 30 - LT	1 1	
48	7.778	ROUTE 30 - RT		1 1
49	7.808	ROUTE 30 - RT	1 1 1 1	
50	44.906*	ROUTE 30 - LT		1
51	44.88*	ROUTE 30 - LT	1 1 1 1	
52	7.836	ROUTE 30 - RT		1
53	7.868	ROUTE 30 - RT		1
54	7.906	ROUTE 30 - RT	1 1	
55	44.787*	ROUTE 30 - RT	1 1	
56	44.703*	ROUTE 30 - LT		1
57	44.702*	ROUTE 30 - LT		1
		SUBTOTAL 1	0 0 0 0 4 10 0 4 4 0 0 3 0 0 3 0 0 0 4 0 0 4 1 2 5 1 2 0 3 1 8 3 1 7 0 10 0 0 1 1 2 2 1 2 0 1 0 1 0 2 1	

* PROJECT LM BASED ON EB DIRECTION

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 12:46:53 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	152

COUNTY
ST.LOUIS

JOB NO.
JSL0081

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)

STANDARD SIGN ASSEMBLIES
D-30
SHEET 1 OF 6

EFFECTIVE: 10-01-2016

STANDARD SIGN ASSEMBLIES (2 OF 5)

SIGN NUMBER	STATION	LOCATION	TYPE	SIGN DESCRIPTION, SIZES & NUMBER OF EACH
			SH M1-1	270 30"x24"
			SH M1-4	50 24"x24"
			SH M1-4	61 24"x24"
			SH M1-4	67 24"x24"
			SH M1-5	21 24"x24"
			SH M1-5	30 24"x24"
			SH M3-2 WHITE	EAST 24"x12"
			SH M3-3 BLUE	SOUTH 24"x12"
			SH M3-3 WHITE	SOUTH 24"x12"
			SH M3-4 WHITE	WEST 24"x12"
			SH M6-4 GREEN	21"x15"
			SH M6-4 WHITE	21"x15"
			SH R0-1	48"x18"
			SH R1-1	STOP 36"x36"
			SH R1-1	STOP 48"x48"
			SH R1-2	48"x48"
			SH R1-2	60"x60"
			SH R2-1	SPEED LIMIT 35 36"x48"
			SH R2-1	SPEED LIMIT 40 36"x48"
			SH R2-1	SPEED LIMIT 50 36"x48"
			SH R3-1	24"x24"
			SH R3-2	36"x36"
			SH R3-9b	CENTER LANE ONLY 24"x36"
			SH R4-4	HIGH OCCUPANCY VEHICLE 36"x30"
			SH R4-7	24"x30"
			SH R5-1	DO NOT ENTER 30"x30"
			SH R5-1	DO NOT ENTER 36"x36"
			SH R5-1	DO NOT ENTER 48"x48"
			SH R5-1a	WRONG WAY 42"x30"
			SH R6-1L	ONE WAY 36"x12"
			SH R6-1L	ONE WAY 54"x18"
			SH R6-1R	ONE WAY 36"x12"
			SH R6-1R	ONE WAY 54"x18"
			SH R7-1	NO PARKING ANY TIME R7-1 18"x24"
			SH R7-1D	NO PARKING ANY TIME 18"x24"
			SH R7-1L	NO PARKING TAXI ONLY 18"x24"
			SH R7-1R	NO PARKING ANY TIME 18"x24"
			SH R10-7	DO NOT BLOCK INTERSECTION 24"x30"
			SHF S1-1 FYG	36"x36"
			SH S5-2	END SCHOOL ZONE 24"x30"
			SH TR42-3b	TRUCK ROUTE 24"x30"
			SHF W2-2	48"x48"
			SHF W4-2R	48"x48"
			SHF W9-1R	36"x36"
			SHF W11-1	36"x36"
			SHF W11-2	36"x36"
			SHF W12-1	30"x30"
			SHF W16-1P	IN ROAD 24"x18"
			SH I4-1	TRUCK WEIGH STATION AHEAD 24"x66"
			SH D11-1	BIKE ROUTE 24"x18"
			ST D15-1	VARIES
58	44.669*	ROUTE 30 - LT		
59	44.658*	ROUTE 30 - LT		
60	8.249	ROUTE 30 - RT		
61	44.452*	ROUTE 30 - LT		
62	8.264	ROUTE 30 - RT		
63	8.282	ROUTE 30 - RT		
64	8.408	ROUTE 30 - RT		
65	8.445	ROUTE 30 - RT		
66	44.239*	ROUTE 30 - LT		
67	8.527	ROUTE 30 - RT		
68	8.556	ROUTE 30 - RT		
69	8.576	ROUTE 30 - RT		
70	44.118*	ROUTE 30 - LT		
71	8.625	ROUTE 30 - RT		
72	44.073*	ROUTE 30 - LT		
73	44.072*	ROUTE 30 - LT		
74	8.662	ROUTE 30 - RT		
75	44.047*	ROUTE 30 - LT		
76	43.972*	ROUTE 30 - LT		
77	8.788	ROUTE 30 - RT		
78	9.026	ROUTE 30 - RT		
79	9.142	ROUTE 30 - RT		
80	43.374*	ROUTE 30 - LT		
81	43.344*	ROUTE 30 - LT		
82	9.410	ROUTE 30 - RT		
83	43.252*	ROUTE 30 - LT		
84	9.468	ROUTE 30 - RT		
85	43.24*	ROUTE 30 - LT		
86	43.219*	ROUTE 30 - LT		
87	43.209*	ROUTE 30 - LT		
88	9.525	ROUTE 30 - RT		
89	43.141*	ROUTE 30 - LT		
90	9.587	ROUTE 30 - RT		
91	9.633	ROUTE 30 - RT		
92	43.077*	ROUTE 30 - LT		
93	9.641	ROUTE 30 - RT		
94	9.650	ROUTE 30 - RT		
95	9.671	ROUTE 30 - RT		
96	9.688	ROUTE 30 - RT		
97	9.710	ROUTE 30 - RT		
98	9.715	ROUTE 30 - RT		
99	9.723	ROUTE 30 - RT		
100	9.744	ROUTE 30 - RT		
101	9.804	ROUTE 30 - RT		
102	42.889*	ROUTE 30 - LT		
103	42.835*	ROUTE 30 - LT		
104	42.704*	ROUTE 30 - LT		
105	10.059	ROUTE 30 - RT		
106	42.625*	ROUTE 30 - LT		
107	10.191	ROUTE 30 - RT		
108	10.400	ROUTE 30 - RT		
109	10.435	ROUTE 30 - RT		
110	10.544	ROUTE 30 - RT		
111	42.099*	ROUTE 30 - LT		
112	42.095*	ROUTE 30 - LT		
113	10.624	ROUTE 30 - RT		
114	10.635	ROUTE 30 - RT		

| | | |

EFFECTIVE: 10-01-2016

STANDARD SIGN ASSEMBLIES (3 OF 5)

SIGN NUMBER	STATION	LOCATION	TYPE	SIGN DESCRIPTION, SIZES & NUMBER OF EACH
			SH M1-1	270 M1-1 30"x24"
			SH M1-4	50 M1-4 24"x24"
			SH M1-4	61 M1-4 24"x24"
			SH M1-4	67 M1-4 24"x24"
			SH M1-5	21 M1-5 24"x24"
			SH M1-5	30 M1-5 24"x24"
			SH M1-5	141 M1-5 30"x24"
			SH M1-5a	P M1-5a 24"x24"
			SH M2-1 WHITE	JCT M2-1 21"x15"
			SH M3-1 BLUE	NORTH M3-1 24"x12"
			SH M3-1 WHITE	NORTH M3-1 24"x12"
			SH M3-2 WHITE	EAST M3-2 24"x12"
			SH M3-3 BLUE	SOUTH M3-3 24"x12"
			SH M3-3 WHITE	SOUTH M3-3 24"x12"
			SH M3-4 WHITE	WEST M3-4 24"x12"
			SH M5-1L BLUE	M5-1L 21"x15"
			SH M5-1R BLUE	M5-1R 21"x15"
			SH M6-1 BLUE	M6-1 21"x15"
			SH M6-1 WHITE	M6-1 21"x15"
			SH M6-2R BLUE	M6-2R 21"x15"
			SH M6-3 BLUE	M6-3 21"x15"
			SH M6-3 WHITE	M6-3 21"x15"
			SH M6-4 GREEN	M6-4 21"x15"
			SH M6-4 WHITE	M6-4 21"x15"
			SH R0-1	STOP R1-1 30"x30"
			SH R1-1	STOP R1-1 48"x48"
			SH R1-2	YIELD R1-2 48"x48"
			SH R1-2	YIELD R1-2 60"x60"
			SH R2-1	SPEED LIMIT 35 R2-1 24"x30"
			SH R2-1	SPEED LIMIT 40 R2-1 36"x48"
			SH R2-1	SPEED LIMIT 50 R2-1 36"x48"
			SH R3-1	R3-1 24"x24"
			SH R3-2	R3-2 36"x36"
			SH R3-9b	CENTER LANE ONLY R3-9b 24"x36"
			SH R4-4	KEEP RIGHT EXCEPT TURN LANE R4-4 24"x36"
			SH R4-7	R4-7 24"x30"
			SH R5-1	DO NOT ENTER R5-1 30"x30"
			SH R6-1R	ONE WAY R6-1R 12"x36"
			SH R10-27A	LEFT TURN YIELD ON FLASHING ARROW R10-27A 30"x36"
			SH R12-1	WEIGHT LIMIT 55 TONS R12-1 36"x48"
			SHF W4-2R	W4-2R 48"x48"
			SHF W9-1R	W9-1R 36"x36"
			SHF W11-1	W11-1 36"x36"
			SHF W11-2	W11-2 36"x36"
			SHF W12-1	W12-1 30"x30"
			SHF W12-1	W12-1 36"x36"
			SHF W16-1P	W16-1P IN ROAD 24"x18"
			ST E1-1	E1-1 VARIES
			ST D3-2	D3-2 VARIES
			ST D15-1	D15-1 VARIES
115	42.067*	ROUTE 30 - LT		1
116	10.649	ROUTE 30 - RT		1 1
117	42.013*	ROUTE 30 - RT		1 1
118	10.804	ROUTE 30 - RT	1	1 1 1
119	41.897*	ROUTE 30 - LT		1
120	10.869	ROUTE 30 - RT		1
121	10.912	ROUTE 30 - RT		1 1 1 1 3
122	10.946	ROUTE 30 - RT		1
123	41.762*	ROUTE 30 - LT		1 1 1 1 3
124	41.72*	ROUTE 30 - LT		1
125	11.011	ROUTE 30 - RT		1
126	41.649*	ROUTE 30 - LT	1	1 1 1
127	11.087	ROUTE 30 - RT		1
128	11.157	ROUTE 30 - RT		1
129	11.188	ROUTE 30 - RT		1
130	41.513*	ROUTE 30 - LT		1 1
131	41.5*	ROUTE 30 - LT		1
132	11.241	ROUTE 30 - RT		1
133	11.282	ROUTE 30 - RT		1 1
134	11.299	ROUTE 30 - RT		1
135	41.373*	ROUTE 30 - LT		1
136	41.275*	ROUTE 30 - RT		1
137	11.546	ROUTE 30 - RT		1
138	41.11*	ROUTE 30 - RT		1
139	11.614	ROUTE 30 - RT		1
140	41.033*	ROUTE 30 - RT		
141	11.728	ROUTE 30 - RT		1
142	40.952*	ROUTE 30 - LT		
143	11.763	ROUTE 30 - RT	2	1 1 1
144	11.772	ROUTE 30 - RT		1
145	11.800	ROUTE 30 - RT		1
146	11.820	ROUTE 30 - RT	1	1 1
147	11.822	ROUTE 30 - RT		1
148	40.875*	ROUTE 30 - LT	1	1 1
149	11.850	ROUTE 30 - RT	1 1	1 1 1 1
150	11.862	ROUTE 30 - LT		1
151	40.847*	ROUTE 30 - LT		1
152	40.817*	ROUTE 30 - LT		1
153	11.890	ROUTE 30 - RT		1
154	40.808*	ROUTE 30 - LT	1	1 1 1 1
155	40.808*	ROUTE 30 - LT		1
156	11.912	ROUTE 30 - RT	1	1 1
157	40.786*	ROUTE 30 - LT		1
158	11.959	ROUTE 30 - RT		1
159	40.747*	ROUTE 30 - LT		
160	40.705*	ROUTE 30 - LT		1
161	40.702*	ROUTE 30 - LT		1
162	12.014	ROUTE 30 - RT		1
163	12.109	ROUTE 30 - RT		1
164	12.133	ROUTE 30 - RT		1
165	40.538*	ROUTE 30 - LT		1
166	12.210	ROUTE 30 - RT		
167	12.307	ROUTE 30 - RT		
168	40.268*	ROUTE 30 - LT		1
169	12.470	ROUTE 30 - RT		1 1
170	12.567	ROUTE 30 - RT		1
171	12.766	ROUTE 30 - RT		1
		SUBTOTAL 3	7	5 4 4 0 7 0 0 2 4 0 3 3 0 3 2 1 2 0 1 1 4 0 6 0 0 0 1 2 0 4 1 0 0 0 6 2 0 2 1 1 1 0 1 0 1 1 2 2 4 7

* PROJECT LM BASED ON EB DIRECTION

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
Stuart McNeil
09/30/2025 2:27:36 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	154

COUNTY
ST.LOUIS

JOB NO.
JSL0081

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)

STANDARD SIGN ASSEMBLIES
D-30
SHEET 3 OF 6

EFFECTIVE: 10-01-2016

STANDARD SIGN ASSEMBLIES (4 OF 5)

SIGN NUMBER	STATION	LOCATION	TYPE	SIGN DESCRIPTION, SIZES & NUMBER OF EACH
			SH M1-5	30 M1-5 24"x24"
			SH M1-5	141 M1-5 30"x24"
			SH M1-5a	P M1-5a 24"x24"
			SH M2-1 WHITE	JCT M2-1 21"x15"
			SH M3-1 BLUE	NORTH M3-1 24"x12"
			SH M3-1 WHITE	NORTH M3-1 24"x12"
			SH M3-2 WHITE	EAST M3-2 24"x12"
			SH M3-2 BLUE	SOUTH M3-2 24"x12"
			SH M3-3 WHITE	SOUTH M3-3 24"x12"
			SH M3-4 WHITE	WEST M3-4 24"x12"
			SH M5-1L BLUE	M5-1L 21"x15"
			SH M5-1R BLUE	M5-1R 21"x15"
			SH M6-1 BLUE	M6-1 21"x15"
			SH M6-1 WHITE	M6-1 21"x15"
			SH R0-1	STOP R1-1 48"x48"
			SH R1-1	STOP R1-1 36"x36"
			SH R1-2	STOP R1-2 48"x48"
			SH R2-1	SPEED LIMIT 50 R2-1 48"x48"
			SH R3-1	R3-1 24"x24"
			SH R3-2	R3-2 36"x36"
			SH R5-1	DO NOT ENTER R5-1 36"x36"
			SH R5-1	DO NOT ENTER R5-1 48"x48"
			SH R5-1a	WRONG WAY R5-1a 42"x30"
			SH R6-1L	ONE WAY R6-1L 36"x12"
			SH R6-1L	ONE WAY R6-1L 54"x18"
			SH R6-1R	ONE WAY R6-1R 36"x12"
			SH R6-1R	ONE WAY R6-1R 54"x18"
			SH R7-1	NO PARKING ANY TIME R7-1 18"x24"
			SH R7-1D	NO PARKING ANY TIME R7-1D 18"x24"
			SH R7-1L	NO PARKING ANY TIME R7-1L 18"x24"
			SH R7-1R	NO PARKING ANY TIME R7-1R 18"x24"
			SH R10-7	DO NOT BLOCK INTERSECTION R10-7 24"x30"
			SH R10-10L	LEFT TURN SIGNAL R10-10L 24"x30"
			SH R10-11a	R10-11a 24"x30"
			SHF W2-2	W2-2 48"x48"
			SHF W4-2R	W4-2R 48"x48"
			SHF W13-2	EXIT 40 W13-2 48"x60"
			SHF W16-1P	IN ROAD W16-1P 24"x18"
			SHF W16-2P	400 FEET W16-2P 30"x24"
			SHF W16-7P	W16-7P 30"x18"
			ST E1-1	Sunset Hills E1-1 VARIES
			SH I4-1	I4-1 24"x66"
			ST I4-1	TO Hoege Rd North NEXT RIGHT I4-1 VARIES
			SH D3-2	D3-2 42"x48"
			ST D3-2	D3-2 VARIES
			SH D9-2	H D9-2 24"x24"
			SH D9-2P	D9-2P 24"x12"
			ST D9-2??	D9-2?? 32"x60"
			ST D9-2?P	D9-2?P 32"x12"
			SH D11-1	BIKE ROUTE D11-1 24"x18"
			ST D15-1	D15-1 VARIES
172	12.934	ROUTE 30 - RT		1
173	39.538*	ROUTE 30 - LT		1
174	39.467*	ROUTE 30 - LT		1
175	13.270	ROUTE 30 - RT		1
176	13.270	ROUTE 30 - RT		1
177	13.265	ROUTE 30 - RT		1
178	13.285	ROUTE 30 - RT		1
179	13.296	ROUTE 30 - RT		1
180	13.300	ROUTE 30 - RT		1 1
181	39.405*	ROUTE 30 - LT		1
182	39.403*	ROUTE 30 - LT		1 1
183	39.39*	ROUTE 30 - LT		1
184	39.34*	ROUTE 30 - LT		1
185	39.34*	ROUTE 30 - LT		1
186	13.379	ROUTE 30 - RT		1
187	39.157*	ROUTE 30 - LT		1
188	13.580	ROUTE 30 - RT		1 1
189	13.580	ROUTE 30 - RT		1 1
190	13.625	ROUTE 30 - RT		1
191	13.625	ROUTE 30 - RT		1
192	13.659	ROUTE 30 - RT		1
193	39.020	ROUTE 30 - LT		1 1
194	39.021	ROUTE 30 - LT		1 1
195	39.005	ROUTE 30 - LT		1
196	38.980	ROUTE 30 - LT		1
197	38.980	ROUTE 30 - LT		1
198	38.950	ROUTE 30 - LT		1 1
199	38.949	ROUTE 30 - RT		1 1
200	13.777	ROUTE 30 - RT		1 1
201	38.894	ROUTE 30 - LT		1 1
202	38.830	ROUTE 30 - LT		1
203	14.134	ROUTE 30 - RT		1
204	38.566	ROUTE 30 - LT		
205	38.541	ROUTE 30 - LT		1
206	38.512	ROUTE 30 - LT		1
207	38.460	ROUTE 30 - LT	1	1
208	14.388	ROUTE 30 - RT		1
209	0.174	141 WB EXIT RAMP		1
210	0.179	141 WB EXIT RAMP		1
211	0.189	142 WB EXIT RAMP		1 1 1
212	0.217	143 WB EXIT RAMP		1
213	0.164	141 EB ENTR. RAMP		1
214	0.157	141 EB ENTR. RAMP		2 1
215	0.251	141 EX RAMP ISLAND		1
216	0.241	141 EX RAMP ISLAND	2	1 1 2
217	38.003*	141 EB EXIT RAMP		1
218	0.150	141 WB ENTR. RAMP		1
219	0.140	141 EB EXIT RAMP		1 1
220	0.132	141 EB EXIT RAMP		1
221	0.131	141 EB EXIT RAMP	2	1 1 2
222	0.105	141 EB EXIT RAMP		1 1 1
223	0.090	141 EB EXIT RAMP		1
224	0.090	141 EB EXIT RAMP		1
225	37.844*	141 EB EXIT RAMP		1
226	14.915	ROUTE 30	1	1
227	14.940	ROUTE 30		1
228	14.940	ROUTE 30		1
		SUBTOTAL 4	2	4 0 0 0 2 1 0 2 1 0 0 0 6 2 0 1 2 1 0 3 4 2 14 0 6 0 3 1 0 0 0 0 3 1 4 2 2 0 4 0 3 0 2 0 3 2 2 1 1 0 0

* PROJECT LM BASED ON EB DIRECTION

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
05/30/2025 2:28:04 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	155

COUNTY
ST.LOUIS

JOB NO.
JSL0081

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)

STANDARD SIGN ASSEMBLIES
D-30
SHEET 4 OF 6

EFFECTIVE: 10-01-2016

STANDARD SIGN ASSEMBLIES (5 OF 5)

SIGN NUMBER	STATION	LOCATION	TYPE	SIGN DESCRIPTION, SIZES & NUMBER OF EACH
229	14.972	ROUTE 30		1
230	14.974	ROUTE 30		1
231	37.731	ROUTE 30		1
232	45.951*	ROUTE 30 - LT		1
233	44.914*	ROUTE 30 - LT		1
234	44.910*	ROUTE 30 - LT		1
235	8.010	ROUTE 30 - RT		1
236	44.698*	ROUTE 30 - LT		1
237	8.015	ROUTE 30 - RT		1
238	8.401	ROUTE 30 - RT		1
239	8.405	ROUTE 30 - RT		1
240	43.239*	ROUTE 30 - LT		1
241	43.217*	ROUTE 30 - LT		1
242	9.586	ROUTE 30 - RT		1
243	9.592	ROUTE 30 - RT		1
244	42.095*	ROUTE 30 - LT		1
245	11.658	ROUTE 30 - RT		1
246	11.670	ROUTE 30 - RT		1
		SUBTOTAL 5		1 1 9 2 1 9 9

* PROJECT LM BASED ON EB DIRECTION

EFFECTIVE: 10-01-2016

STANDARD SIGN ASSEMBLIES

	TYPE	SIGN DESCRIPTION, SIZES & NUMBER OF EACH
SUBTOTAL 1		1 1 1

SIGN SUMMARY

EFFECTIVE: 10-01-2016

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET				
			SIZE	FLAT SHEET SH ITEM NO. 9035004A	FLAT SHEET FLUORESCENT SHF * ITEM NO. 9035069A	STRUCTURAL ST ITEM NO. 9035011A	STRUCTURAL FLUORESCENT STF * ITEM NO. 9035071A
M1-1 (270)	STANDARD	7	30"x24"	35			
M1-4 (50)	STANDARD	5	24"x24"	20			
M1-4 (61)	STANDARD	4	24"x24"	16			
M1-4 (67)	STANDARD	4	24"x24"	16			
M1-5 (21)	STANDARD	4	24"x24"	16			
M1-5 (30)	STANDARD	25	24"x24"	100			
M1-5 (141)	STANDARD	4	30"x24"	20			
M1-5a (P)	STANDARD	4	24"x24"	16			
M2-1 WHITE	STANDARD	6	21"x15"	13.14			
M3-1 BLUE	STANDARD	4	24"x12"	8			
M3-1 WHITE	STANDARD	2	24"x12"	4			
M3-2 WHITE	STANDARD	9	24"x12"	18			
M3-3 BLUE	STANDARD	3	24"x12"	6			
M3-3 WHITE	STANDARD	2	24"x12"	4			
M3-4 WHITE	STANDARD	11	24"x12"	22			
M5-1L BLUE	STANDARD	2	21"x15"	4.38			
M5-1R BLUE	STANDARD	1	21"x15"	2.19			
M6-1 BLUE	STANDARD	2	21"x15"	4.38			
M6-1 WHITE	STANDARD	10	21"x15"	21.9			
M6-2R BLUE	STANDARD	1	21"x15"	2.19			
M6-3 BLUE	STANDARD	1	21"x15"	2.19			
M6-3 WHITE	STANDARD	8	21"x15"	17.52			
M6-4 GREEN	STANDARD	2	21"x15"	5			
M6-4 WHITE	STANDARD	6	21"x15"	13.14			
R0-1	158	2	48"x18"	12			
R1-1	STANDARD	4	36"x36"	36			
R1-1	STANDARD	1	48"x48"	16			
R1-2	STANDARD	11	48"x48"	176			
R1-2	STANDARD	4	60"x60"	100			
R2-1 (35)	STANDARD	5	36"x48"	60			
R2-1 (40)	STANDARD	14	36"x48"	168			
R2-1 (50)	STANDARD	2	36"x48"	24			
R3-1	STANDARD	2	24"x24"	8			
R3-2	STANDARD	3	36"x36"	27			
R3-9b	STANDARD	3	24"x36"	9			
R4-4	STANDARD	8	36"x30"	60			
R4-7	STANDARD	18	24"x30"	90			
R5-1	STANDARD	3	30"x30"	18.75			
R5-1	STANDARD	6	36"x36"	54			
R5-1	STANDARD	2	48"X48"	32			
R5-1a	STANDARD	14	42"x30"	122.5			
R6-1L	STANDARD	9	36"x12"	27			
R6-1L	STANDARD	6	54"x18"	40.5			
R6-1R	STANDARD	14	36"x12"	42			
R6-1R	STANDARD	3	54"x18"	20.25			
R7-1	STANDARD	1	18"x24"	3			
R7-1D	STANDARD	10	18"x24"	30			
R7-1L	STANDARD	2	18"x24"	6			
R7-1R	STANDARD	1	18"x24"	3			
R10-7	STANDARD	1	24"x30"	5			
R10-10L	STANDARD	3	24"x30"	15			
R10-11a	STANDARD	1	24"x30"	5			
R10-13	STANDARD	2	36"x24"	12			
R10-13	STANDARD	2	60"x30"	25			
R10-15R	STANDARD	1	30"x30"	6.25			
R10-27A	STANDARD	1	30"x36"	7.5			
R12-1 (55)	STANDARD	1	36"x48"	12			
S1-1 FYG	STANDARD	4	36"x36"		36		
S5-2	STANDARD	2	24"x30"		10		
TR42-3b	STANDARD	1	24"x30"	5			
W2-2	STANDARD	4	48"x48"		64		
W4-2R	STANDARD	3	48"x48"		48		
W9-1R	STANDARD	1	36"x36"		9		
W11-1	STANDARD	8	36"x36"		72		
W11-2	STANDARD	9	36"x36"		81		
W12-1	STANDARD	5	30"x30"		31.25		
W12-1	STANDARD	1	36"x36"		9		
W12-2a (19FT 9IN)	STANDARD	1	84"x24"		14		
W13-2 (40)	STANDARD	2	48"x60"		40		
W16-1P	STANDARD	9	24"x18"		27		
W16-2P (400FT)	STANDARD	4	30"x24"		20		
W16-17P	STANDARD	9	30"x18"		33.75		
E1-1	158, 160, 161	5	VARIES			420	
I4-1	158	1	24"x66"	11			
I4-1	161	2	VARIES			79	
D3-2	158	1	42"x48"	14			
D3-2	158, 160, 161	7	VARIES			367	
D9-2	STANDARD	2	24"x24"	8			
D9-2P	STANDARD	2	24"x12"	4			
D9-27	161	1	132"x60"			55	
D9-27P	161	1	132"x12"			11	
D11-1	STANDARD	2	24"x18"	6			
D15-1	159, 160	7	VARIES			376	
R7-8	STANDARD	9	12X18	13.5			
SUBTOTALS				1721.3	495.0	1308.0	0.0
PAY TOTALS				1721	495	1308	0

* ORANGE, YELLOW & YELLOW/GREEN

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:27:11 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 9/25/2025

ROUTE	STATE
30	MO

DISTRICT	SHEET NO.
SL	157

COUNTY: ST.LOUIS

JOB NO.: JSL0081

CONTRACT ID.:

PROJECT NO.:

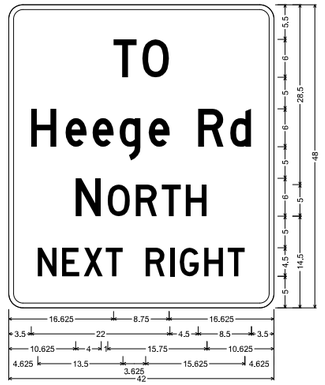
BRIDGE NO.:

DESCRIPTION	DATE

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

STANDARD SIGN ASSEMBLIES
D-30
SHEET 6 OF 6

SHEET NO.	110
LOCATION	LOG MILE 5.920 WB
ROADWAY	ROUTE 30



D3-2 SH-FLAT SHEET;
2.250" Radius, 0.750" Border, White on, Green;
"TO", D 80% spacing; "Heege Rd", D 80% spacing;
"NORTH", D 80% spacing; "NEXT RIGHT", D 80% spacing;
Table of letter and object lefts

T	O
16.625	21.125

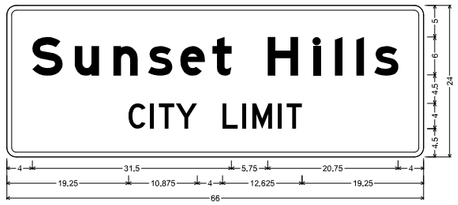
H	e	e	q	e	R	d
3.500	9.000	13.250	17.625	22.125	30.000	35.125

N	O	R	T	H
10.625	15.625	20.125	24.250	28.000

N	C	K	T
4.625	8.500	11.875	15.375

R	I	G	H	T
21.750	25.500	27.125	31.000	34.625

SHEET NO.	129
LOCATION	LOG MILE 10.635 WB
ROADWAY	ROUTE 30

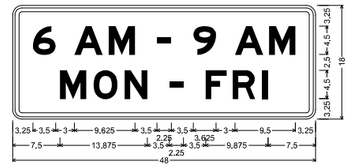


I4-1 SH-FLAT SHEET;
1.500" Radius, 0.750" Border, White on, Green;
"Sunset Hills", E Mod; "CITY LIMIT", D;
Table of letter and object lefts

S	u	n	s	e	t	H	i	l	l	s
4.000	10.750	16.875	22.375	27.500	32.500	41.250	48.500	52.000	55.375	58.125

C	i	r	Y	L	i	M	i	t	T
19.250	22.750	24.125	26.750	34.125	37.375	38.875	42.875	44.250	

SHEET NO.	142
LOCATION	LOG MILE 39.021 EB
ROADWAY	ROUTE 30

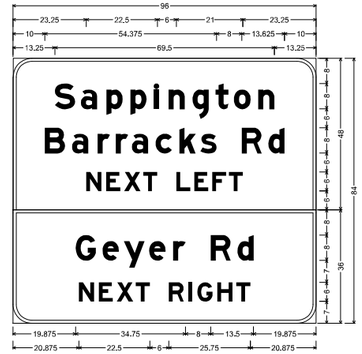


SPECIAL SH-FLAT SHEET;
1.500" Radius, 0.625" Border, 0.375" Indent, Black on, White;
"6 AM - 9 AM", E Mod; "MON - FRI", E Mod;
Table of letter and object lefts

6	A	M	-	9	A	M
3.250	9.750	15.250	22.875	28.625	35.250	40.625

M	O	N	-	F	R	I
7.500	12.875	17.750	24.875	30.625	34.875	39.625

SHEET NO.	131
LOCATION	LOG MILE 11.157 WB
ROADWAY	ROUTE 30



D3-2 ST-STRUCTURAL;

6.000" Radius, 1.000" Border, White on, Green;
"Sappington", E Mod; "Barracks Rd", E Mod; "NEXT LEFT", E Mod;

6.000" Radius, 1.000" Border, White on, Green;
"Geyer Rd", E Mod; "NEXT RIGHT", E Mod;
Table of letter and object lefts

S	a	p	p	i	n	g	t	o	n
13.250	21.500	29.625	37.125	44.750	49.250	56.875	64.125	70.000	77.625

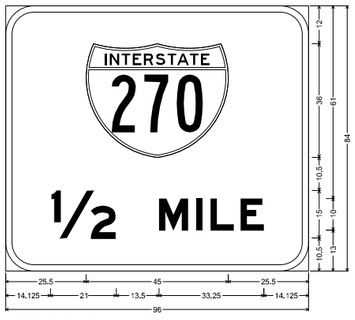
B	a	r	r	a	c	k	s	R	d
10.000	18.625	26.750	32.500	37.625	45.125	52.750	59.375	72.375	80.875

N	E	X	T	L	E	F	T
23.250	29.500	35.250	41.250	51.750	57.375	63.125	68.375

G	e	Y	e	r	R	d
19.875	28.375	35.125	43.125	50.750	62.625	71.125

N	E	X	T	R	I	G	H	T
20.875	27.125	32.875	38.875	49.375	55.625	58.375	64.750	70.750

SHEET NO.	132
LOCATION	LOG MILE 11.299 WB
ROADWAY	ROUTE 30

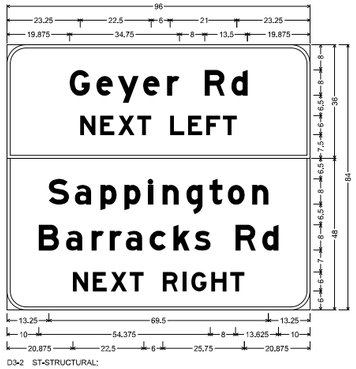


E1-1 ST-STRUCTURAL;
9.000" Radius, 2.000" Border, White on, Green;
Interstate 270 18.000" B; "½", E Mod; "MILE", E Mod;
Table of letter and object lefts

270
25.500

½	M	I	L	E
14.125	48.625	60.375	64.875	74.375

SHEET NO.	132
LOCATION	LOG MILE 41.373 EB
ROADWAY	ROUTE 30



D3-2 ST-STRUCTURAL;

6.000" Radius, 1.000" Border, White on, Green;
"Geyer Rd", E Mod; "NEXT LEFT", E Mod;

6.000" Radius, 1.000" Border, White on, Green;
"Sappington", E Mod; "Barracks Rd", E Mod; "NEXT RIGHT", E Mod;
Table of letter and object lefts

G	e	Y	e	r	R	d
19.875	28.375	35.125	43.125	50.750	62.625	71.125

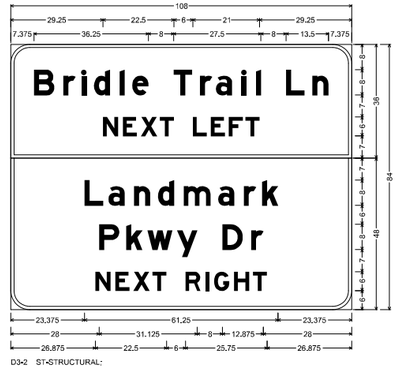
N	E	X	T	L	E	F	T
23.250	29.500	35.250	41.250	51.750	57.375	63.125	68.375

S	a	p	p	i	n	g	t	o	n
13.250	21.500	29.625	37.125	44.750	49.250	56.875	64.125	70.000	77.625

B	a	r	r	a	c	k	s	R	d
10.000	18.625	26.750	32.500	37.625	45.125	52.750	59.375	72.375	80.875

N	E	X	T	R	I	G	H	T
20.875	27.125	32.875	38.875	49.375	55.625	58.375	64.750	70.750

SHEET NO.	133
LOCATION	LOG MILE 11.546 WB
ROADWAY	ROUTE 30



D3-2 ST-STRUCTURAL;

6.000" Radius, 1.000" Border, White on, Green;
"Bridle Trail Ln", E Mod; "NEXT LEFT", E Mod;

6.000" Radius, 1.000" Border, White on, Green;
"Landmark", E Mod; "Pkwy Dr", E Mod; "NEXT RIGHT", E Mod;
Table of letter and object lefts

B	r	i	d	l	e	T	r	a	i	l	l
7.375	16.625	22.375	26.375	34.500	38.500	51.625	59.875	65.000	73.125	77.625	

L	n
87.125	95.500

N	E	X	T	L	E	F	T
29.250	35.500	41.250	47.250	57.750	63.375	69.125	74.375

L	a	n	d	m	a	r	k
23.375	30.875	39.000	46.625	54.750	65.625	73.750	79.625

P	k	w	y	D	r		
28.000	36.625	43.250	52.625	67.125	76.125		

N	E	X	T	R	I	G	H	T
26.875	33.125	38.875	44.875	55.375	61.625	64.375	70.750	76.750

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:28:41 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	158

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

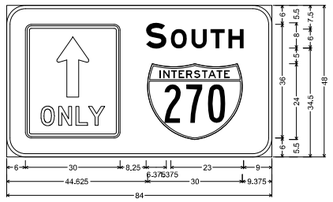
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SIGNING DETAILS
D31
SHEET 1 OF 6

SHEET NO.	134
LOCATION	LOG MILE 11.728 WB
ROADWAY	ROUTE 30

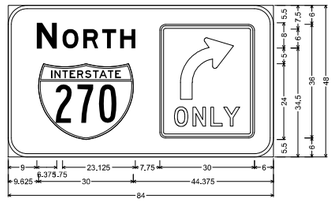


D15-1 ST-STRUCTURAL:
6,000" Radius, 1,000" Border, White on, Green:
R3-5a Black on White Decal: "SOUTH", E Mod: Interstate 270 12.000" B:
Interstate 270 12.000" B:
Table of letter and object lefts

U	S	O	U	T	H	
6,000	44,250	52,000	58,625	64,625	70,250	

44,625

SHEET NO.	134
LOCATION	LOG MILE 11.8 WB
ROADWAY	ROUTE 30

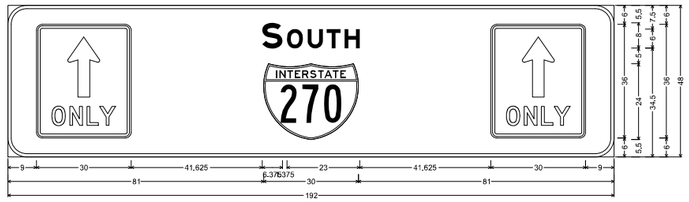


D15-1 ST-STRUCTURAL:
6,000" Radius, 1,000" Border, White on, Green:
"NORTH", E Mod: Interstate 270 12.000" B:
R3-5R Black on White Decal:
Table of letter and object lefts

N	O	R	T	H		
9,000	17,125	23,750	29,750	35,500	48,000	

9,625

SHEET NO.	134
LOCATION	LOG MILE 11.862 WB
ROADWAY	ROUTE 30

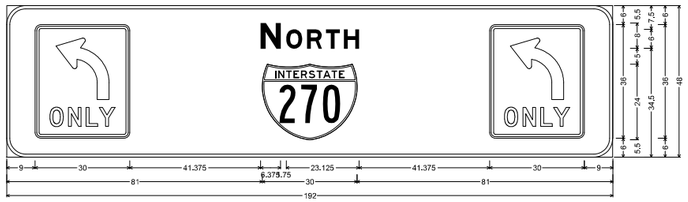


D15-1 ST-STRUCTURAL:
6,000" Radius, 1,000" Border, White on, Green:
R3-5a Black on White Decal: "SOUTH", E Mod: Interstate 270 12.000" B; R3-5a Black on White Decal:
Table of letter and object lefts

U	S	O	U	T	H		
9,000	80,625	88,375	95,000	101,000	106,625	153,000	

81,000

SHEET NO.	134
LOCATION	LOG MILE 40.847 EB
ROADWAY	ROUTE 30

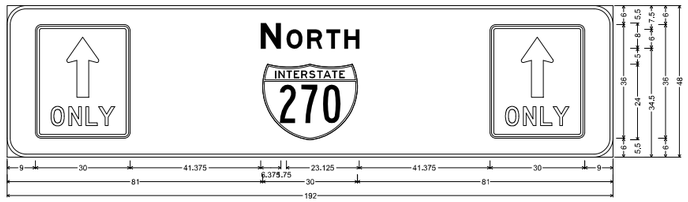


D15-1 ST-STRUCTURAL:
6,000" Radius, 1,000" Border, White on, Green:
R3-5L Black on White Decal: "NORTH", E Mod: Interstate 270 12.000" B; R3-5L Black on White Decal:
Table of letter and object lefts

U	N	O	R	T	H		
9,000	80,375	88,500	95,125	101,125	106,875	153,000	

81,000

SHEET NO.	134
LOCATION	LOG MILE 40.817 EB
ROADWAY	ROUTE 30

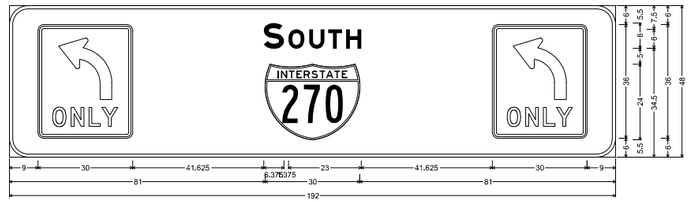


D15-1 ST-STRUCTURAL:
6,000" Radius, 1,000" Border, White on, Green:
R3-5a Black on White Decal: "NORTH", E Mod: Interstate 270 12.000" B; R3-5a Black on White Decal:
Table of letter and object lefts

U	N	O	R	T	H		
9,000	80,375	88,500	95,125	101,125	106,875	153,000	

81,000

SHEET NO.	134
LOCATION	LOG MILE 11.89 WB
ROADWAY	ROUTE 30



D15-1 ST-STRUCTURAL:
6,000" Radius, 1,000" Border, White on, Green:
R3-5L Black on White Decal: "SOUTH", E Mod: Interstate 270 12.000" B; R3-5L Black on White Decal:
Table of letter and object lefts

U	S	O	U	T	H		
9,000	80,625	88,375	95,000	101,000	106,625	153,000	

81,000

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:28:30 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	159

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

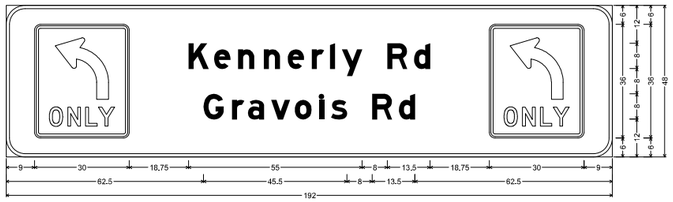
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SIGNING DETAILS
D31
SHEET 2 OF 6

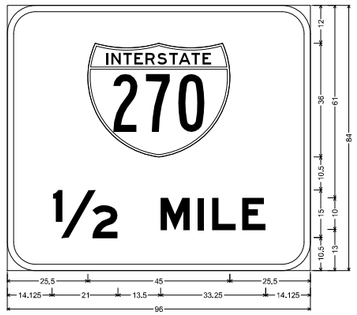
SHEET NO.	135
LOCATION	LOG MILE 11.959 WB
ROADWAY	ROUTE 30



D15-1 ST-STRUCTURAL:
6.000" Radius, 1.000" Border, White on, Green;
R3-5L Black on White Decal "Kennerly Rd", E Mod: "Gravois Rd", E Mod: R3-5L Black on White Decal
Table of letter and object lefts

G 9,000	K 57,750	a 65,875	n 73,500	n 81,825	e 89,125	r 96,750	l 102,500	v 106,250	R 120,750	d 129,125	G 153,000
G 62,500	r 71,500	a 76,625	v 83,875	o 91,375	l 99,125	s 102,875	R 116,000	d 124,375			

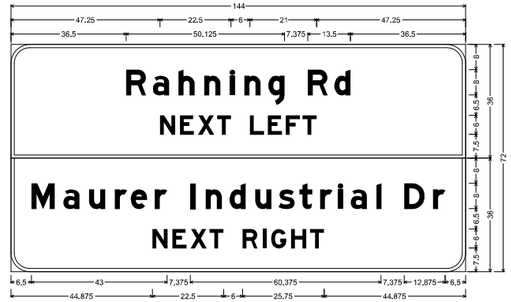
SHEET NO.	137
LOCATION	LOG MILE 40.268 EB
ROADWAY	ROUTE 30



E1-1 ST-STRUCTURAL:
9.000" Radius, 2.000" Border, White on, Green;
Interstate 270 18.000" B: "½", E Mod: "MILE", E Mod;
Table of letter and object lefts

G 25,500				
½ 14,125	M 48,625	I 60,375	L 64,875	E 74,375

SHEET NO.	138
LOCATION	LOG MILE 12.567 WB
ROADWAY	ROUTE 30



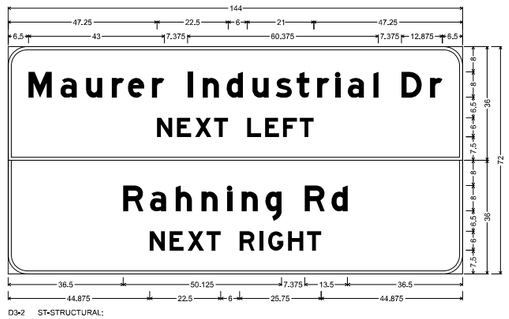
D3-2 ST-STRUCTURAL:

6.000" Radius, 1.000" Border, White on, Green;
"Rahning Rd", E Mod: "NEXT LEFT", E Mod;

6.000" Radius, 1.000" Border, White on, Green;
"Maurer Industrial Dr", E Mod: "NEXT RIGHT", E Mod:
Table of letter and object lefts

R 36,500	a 44,875	h 53,000	n 61,250	l 69,375	n 74,000	g 81,500	R 94,000	d 102,375	
N 47,250	E 53,500	X 59,250	T 65,250	L 75,750	E 81,375	F 87,125	T 92,375		
M 6,500	a 16,500	u 24,750	r 32,875	e 38,000	r 45,500				
I 56,875	n 61,625	d 69,250	u 77,375	s 84,750	t 91,375	r 97,875	l 103,625	a 107,625	l 115,750	D 124,625	r 133,625
N 44,875	E 51,125	X 56,875	T 62,875	R 73,375	I 79,625	G 82,375	H 88,750	T 94,750			

SHEET NO.	140
LOCATION	LOG MILE 39.538 EB
ROADWAY	ROUTE 30



D3-2 ST-STRUCTURAL:

6.000" Radius, 1.000" Border, White on, Green;
"Maurer Industrial Dr", E Mod: "NEXT LEFT", E Mod:

6,000" Radius, 1.000" Border, White on, Green;
"Rahning Rd", E Mod: "NEXT RIGHT", E Mod:
Table of letter and object lefts

M 6,500	a 16,500	u 24,750	r 32,875	e 38,000	r 45,500																		
I 56,875	n 61,625	d 69,250	u 77,375	s 84,750	t 91,375	r 97,875	l 103,625	a 107,625	l 115,750	D 124,625	r 133,625												
N 47,250	E 53,500	X 59,250	T 65,250	L 75,750	E 81,375	F 87,125	T 92,375																
R 36,500	a 44,875	h 53,000	n 61,250	l 69,375	n 74,000	g 81,500	R 94,000	d 102,375															
N 44,875	E 51,125	X 56,875	T 62,875	R 73,375	I 79,625	G 82,375	H 88,750	T 94,750															

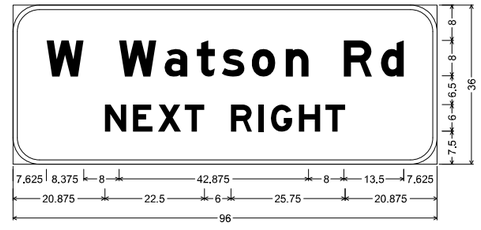
SHEET NO.	141
LOCATION	LOG MILE 13.265 WB
ROADWAY	ROUTE 30



E1-1 ST-STRUCTURAL:
12.000" Radius, 2.000" Border, White on, Green;
State Highway 141 M1=Exit "Fenton", E Mod 90% spacing: "Valley Park", E Mod 90% spacing: "EXIT", E Mod: "1", E Mod: "MILE", E Mod:
Table of letter and object lefts

G 79,500																							
F 52,625	e 69,750	n 88,125	t 105,875	o 120,000	n 138,625																		
V 14,000	a 35,500	r 55,000	l 65,625	e 74,875	V 91,500	P 123,500	a 143,750	r 163,375	k 177,250														
E 42,375	X 53,750	S 66,625	T 71,500	E 98,375	M 121,750	I 135,875	L 141,375	E 152,750															

SHEET NO.	141
LOCATION	LOG MILE 13.379 WB
ROADWAY	ROUTE 30



D3-2 ST-STRUCTURAL:
6.000" Radius, 1.000" Border, White on, Green;
"W Watson Rd", E Mod; "NEXT RIGHT", E Mod;
Table of letter and object lefts

W 7.625	W 24.000	a 34.375	t 41.625	s 47.250	o 54.000	n 61.750	R 74.875	d 83.250
N 20,875	E 27,125	X 32,875	T 38,875	R 49,375	I 55,625	G 58,375	H 64,750	T 70,750

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:28:13 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	160

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

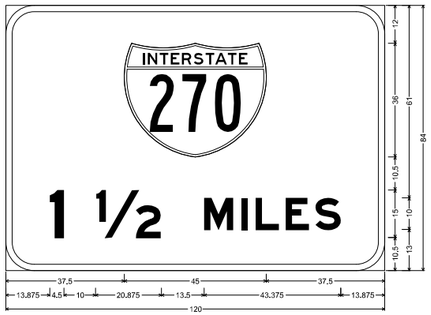
BRIDGE NO.

DESCRIPTION	DATE

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

SIGNING DETAILS
D31
SHEET 3 OF 6

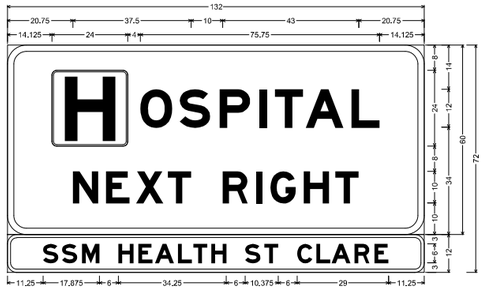
SHEET NO.	142
LOCATION	LOG MILE 39.157 EB
ROADWAY	ROUTE 30



E1-1 ST-STRUCTURAL:
9,000" Radius, 2,000" Border, White on, Green;
Interstate 270 18,000" B; "1 ½", E Mod; "MILES", E Mod;
Table of letter and object lefts

37,500						
I 13,875	V2 28,375	M 62,750	I 74,625	L 79,125	E 88,625	S 98,125

SHEET NO.	143
LOCATION	LOG MILE 13.777 WB
ROADWAY	ROUTE 30

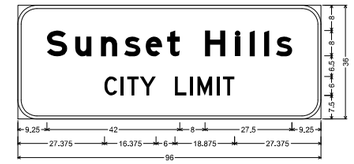


D9-27 ST-STRUCTURAL:
6,000" Radius, 2,000" Border, White on, Blue;
"OSPITAL", E Mod; "NEXT RIGHT", E Mod;

D9-27P ST-STRUCTURAL:
3,000" Radius, 1,000" Border, White on, Blue;
"SSM HEALTH ST CLARE", E Mod;
Table of letter and object lefts

H 14,125	O 42,125	S 54,625	P 67,250	I 79,875	T 84,750	A 94,500	L 109,000	
N 20,750	E 31,250	X 40,750	T 50,750	R 68,250	I 78,750	G 83,250	H 93,875	T 103,875
S 11,250	S 17,250	M 23,625	H 35,125	E 41,500	A 46,750	L 54,000	T 58,875	H 64,500	S 75,375	T 81,375
C 91,750	L 97,875	A 102,750	R 109,875	E 116,250						

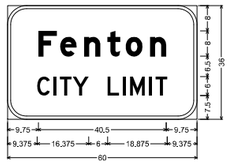
SHEET NO.	143
LOCATION	LOG MILE 38.83 EB
ROADWAY	ROUTE 30



I4-1 ST-STRUCTURAL:
6,000" Radius, 1,000" Border, White on, Green;
"Sunset Hills", E Mod; "CITY LIMIT", D;
Table of letter and object lefts

S 9,250	u 18,125	n 26,250	s 33,625	e 40,500	t 47,250	
H 59,250	i 68,875	t 73,375	y 78,000	s 81,750		
C 27,375	I 32,500	T 34,625	Y 38,625	L 49,750	I 54,500	M 56,875	I 62,875	T 65,000

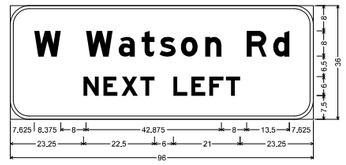
SHEET NO.	144
LOCATION	LOG MILE 14.134 WB
ROADWAY	ROUTE 30



I4-1 ST-STRUCTURAL:
6,000" Radius, 1,000" Border, White on, Green;
"Fenton", E Mod; "CITY LIMIT", D;
Table of letter and object lefts

F 9,750	e 16,750	n 24,250	t 31,625	o 37,500	n 45,125
C 9,375	I 14,500	T 16,625	Y 20,625		
L 31,750	I 36,500	M 38,875	I 44,875	T 47,000	

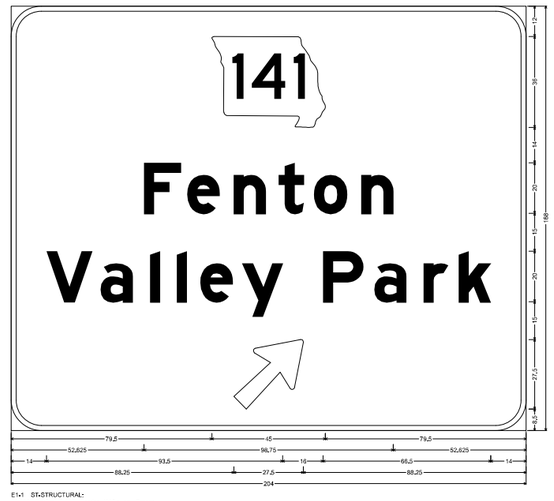
SHEET NO.	144
LOCATION	LOG MILE 38.541 EB
ROADWAY	ROUTE 30



D3-2 ST-STRUCTURAL:
6,000" Radius, 1,000" Border, White on, Green;
"W Watson Rd", E Mod; "NEXT LEFT", E Mod;
Table of letter and object lefts

W 7,625	W 24,000	a 34,375	t 41,625	s 47,250	o 54,000	n 61,750	R 74,875	d 83,250
N 23,250	E 29,500	X 35,250	T 41,250	L 51,750	E 57,375	F 63,125	T 68,375	

SHEET NO.	147
LOCATION	LOG MILE 37.844 EB
ROADWAY	ROUTE 30



E1-1 ST-STRUCTURAL:
12,000" Radius, 2,000" Border, White on, Green;
State Highway 141 M1-6a4 "Fenton", E Mod 90% spacing; "Valley Park", E Mod 90% spacing; Arrow 160 - 35,000° 45°;
Table of letter and object lefts

79,500										
F 52,625	e 69,750	n 88,125	t 105,875	o 120,000	n 138,625					
V 14,000	a 35,500	l 55,000	l 65,625	e 74,875	y 91,500	P 123,500	a 143,750	r 163,375	k 177,250	
88,250										

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:28:21 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	161

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

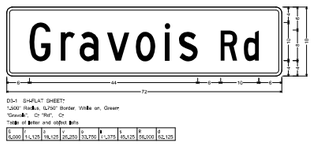
DESCRIPTION

DATE

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

SIGNING DETAILS
D31
SHEET 4 OF 6

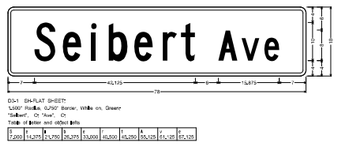
SHEET NO.	67.69.71.73.75.78.85.87.93.95
LOCATION	VAR.
ROADWAY	ROUTE 30



D3-1 SHIELD SHEET*
1,500' Radius, 0.750' Border, White on, Green*
"Gravois", C= "Rd", C=
Table of letter and offset info

C	6.000	11.125	16.125	26.250	33.750	1.375	45.125	56.000	62.125

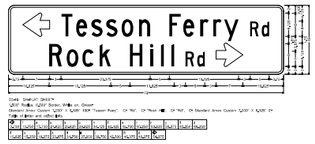
SHEET NO.	67
LOCATION	STA. 15+00
ROADWAY	ROUTE 30



D3-1 SHIELD SHEET*
1,500' Radius, 0.750' Border, White on, Green*
"Seibert", C= "Ave", C=
Table of letter and offset info

C	7.250	14.375	21.750	26.375	33.000	45.000	45.250	55.125	62.125

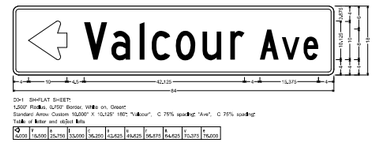
SHEET NO.	75
LOCATION	STA. 112+90
ROADWAY	ROUTE 30



D3-4 SHIELD SHEET*
1,200' Radius, 0.250' Border, White on, Green*
Standard Arrow Custom 12.000' X 6.125' 135° "Tesson Ferry", C= "Rd", C= "Rock Hill", C= "Rd", C= Standard Arrow Custom 12.000' X 6.000' 71°
Table of letter and offset info

C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F	7.688	14.375	21.750	26.375	33.000	45.000	45.250	55.125	62.125	69.750	74.375	81.375	88.000

SHEET NO.	78
LOCATION	STA. 121+60
ROADWAY	ROUTE 30



D3-1 SHIELD SHEET*
1,200' Radius, 0.750' Border, White on, Green*
Standard Arrow Custom 10.000' X 15.125' 180° "Valcour", C= 75% spacing; "Ave", C= 75% spacing;
Table of letter and offset info

C	4.000	10.500	15.750	33.500	39.250	43.625	54.625	66.875	74.625	76.000

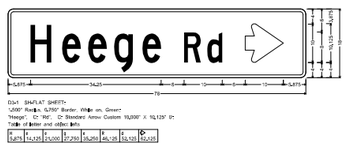
SHEET NO.	69
LOCATION	STA. 19+80
ROADWAY	ROUTE 30



D3-1 SHIELD SHEET*
1,500' Radius, 0.750' Border, White on, Green*
Standard Arrow Custom 10.000' X 15.125' 180° "Heege", C= "Rd", C=
Table of letter and offset info

C	5.875	21.875	30.125	37.000	44.750	51.250	62.125	68.125

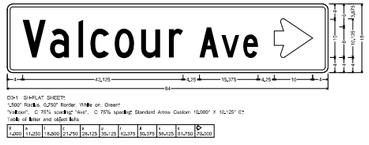
SHEET NO.	69
LOCATION	STA. 19+40
ROADWAY	ROUTE 30



D3-1 SHIELD SHEET*
1,500' Radius, 0.750' Border, White on, Green*
"Heege", C= "Rd", C= Standard Arrow Custom 10.000' X 10.125' 0°
Table of letter and offset info

C	5.875	14.125	21.500	27.250	34.250	46.125	55.125	62.125

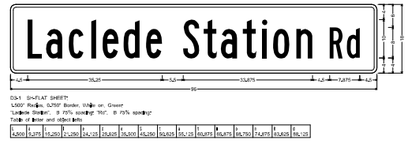
SHEET NO.	78
LOCATION	STA. 122+70
ROADWAY	ROUTE 30



D3-1 SHIELD SHEET*
1,200' Radius, 0.750' Border, White on, Green*
"Valcour", C= 75% spacing; "Ave", C= 75% spacing; Standard Arrow Custom 15.000' X 10.125' 0°
Table of letter and offset info

C	4.000	11.250	16.000	21.750	34.125	39.125	43.375	50.375	56.125	61.750	76.000

SHEET NO.	83
LOCATION	STA. 142+50
ROADWAY	ROUTE 30



D3-1 SHIELD SHEET*
1,500' Radius, 0.750' Border, White on, Green*
Laclede Station", C= 75% spacing; "Rd", C= 75% spacing;
Table of letter and offset info

C	4.000	9.375	15.250	21.250	24.125	28.625	35.500	43.625	50.125	58.875	66.875	69.750	74.875	83.625	86.125

SHEET NO.	71
LOCATION	STA. 55+70
ROADWAY	ROUTE 30



D3-1 SHIELD SHEET*
1,200' Radius, 0.250' Border, White on, Green*
Standard Arrow Custom 12.000' X 6.125' 180° "Elgin", C= "Ave", C= "Weber", C= "Rd", C=
Standard Arrow Custom 12.000' X 6.000' 0°
Table of letter and offset info

C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F	7.250	14.000	21.250	26.875	37.000	44.000	46.000	56.375	63.375	74.250	86.375

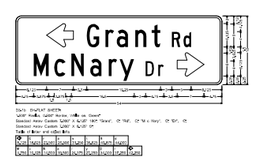
SHEET NO.	71
LOCATION	STA. 56+60
ROADWAY	ROUTE 30



D3-1 SHIELD SHEET*
1,200' Radius, 0.250' Border, White on, Green*
Standard Arrow Custom 12.000' X 6.125' 180° "Weber", C= "Rd", C= "Elgin", C= "Ave", C=
Standard Arrow Custom 12.000' X 6.000' 0°
Table of letter and offset info

C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F	7.250	14.000	21.250	26.875	37.000	44.000	46.000	56.375	63.375	74.250	86.375

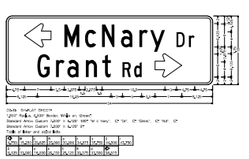
SHEET NO.	85
LOCATION	STA. 157+10
ROADWAY	ROUTE 30



D3-1 SHIELD SHEET*
1,200' Radius, 0.750' Border, White on, Green*
Standard Arrow Custom 12.000' X 6.125' 180° "Grant", C= "Rd", C= "McNary", C= "Dr", C=
Standard Arrow Custom 12.000' X 6.000' 0°
Table of letter and offset info

C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F	7.250	14.000	21.250	26.875	37.000	44.000	46.000	56.375	63.375	74.250	86.375

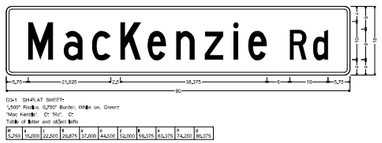
SHEET NO.	85
LOCATION	STA. 157+90
ROADWAY	ROUTE 30



D3-1 SHIELD SHEET*
1,200' Radius, 0.750' Border, White on, Green*
Standard Arrow Custom 12.000' X 6.125' 180° "McNary", C= "Dr", C= "Grant", C= "Rd", C=
Standard Arrow Custom 12.000' X 6.000' 0°
Table of letter and offset info

C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F	7.250	14.000	21.250	26.875	37.000	44.000	46.000	56.375	63.375	74.250	86.375

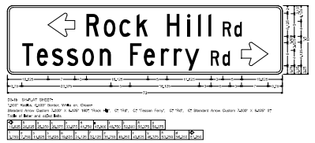
SHEET NO.	73
LOCATION	STA. 83+80
ROADWAY	ROUTE 30



D3-1 SHIELD SHEET*
1,500' Radius, 0.750' Border, White on, Green*
"Mac Kenzie", C= "Rd", C=
Table of letter and offset info

C	5.250	15.000	26.000	36.875	47.000	56.000	66.000	76.375	84.250	96.375

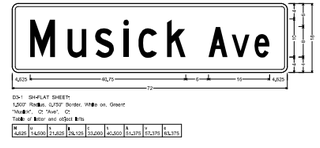
SHEET NO.	75
LOCATION	STA. 111+50
ROADWAY	ROUTE 30



D3-4 SHIELD SHEET*
1,200' Radius, 0.250' Border, White on, Green*
Standard Arrow Custom 12.000' X 6.000' 180° "Rock Hill", C= "Rd", C= "Tesson Ferry", C= "Rd", C= Standard Arrow Custom 12.000' X 6.000' 0°
Table of letter and offset info

C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F	7.688	14.375	21.750	26.375	33.000	45.000	45.250	55.125	62.125	69.750	74.375	81.375	88.000

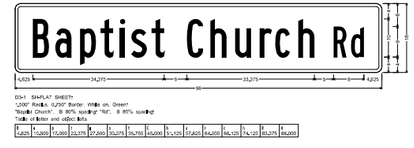
SHEET NO.	87
LOCATION	STA. 170+50
ROADWAY	ROUTE 30



D3-1 SHIELD SHEET*
1,200' Radius, 0.750' Border, White on, Green*
"Musick", C= "Ave", C=
Table of letter and offset info

C	4.625	14.000	21.625	26.125	33.250	43.000	51.375	57.375	63.375

SHEET NO.	87
LOCATION	STA. 200+00
ROADWAY	ROUTE 30



D3-1 SHIELD SHEET*
1,500' Radius, 0.750' Border, White on, Green*
"Baptist Church", C= 80% spacing; "Rd", C= 80% spacing;
Table of letter and offset info

C	4.625	15.000	27.000	37.000	51.375	56.750	65.000	71.125	77.625	84.000	96.125	74.125	81.375	88.000

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/30/2025 2:27:28 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	162

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

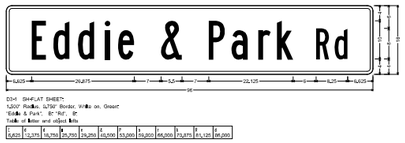
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

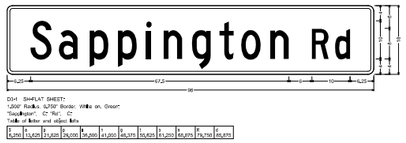
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNING DETAILS
D31
SHEET 5 OF 6

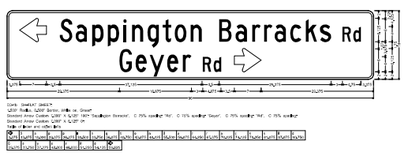
SHEET NO.	91
LOCATION	STA. 205+10
ROADWAY	ROUTE 30



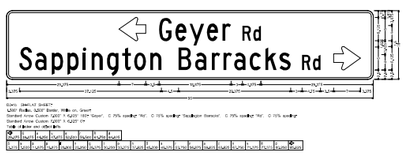
SHEET NO.	93
LOCATION	STA. 258+90
ROADWAY	ROUTE 30



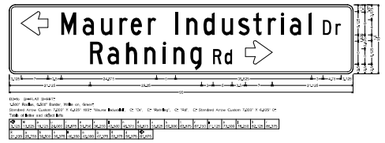
SHEET NO.	95
LOCATION	STA. 293+80
ROADWAY	ROUTE 30



SHEET NO.	95
LOCATION	STA. 292+90
ROADWAY	ROUTE 30



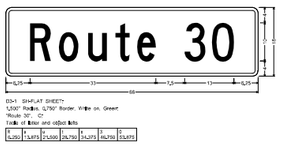
SHEET NO.	103
LOCATION	STA. 380+10
ROADWAY	ROUTE 30



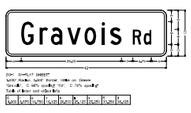
SHEET NO.	103
LOCATION	STA. 381+80
ROADWAY	ROUTE 30



SHEET NO.	97.99.101.103.105
LOCATION	VAR.
ROADWAY	ROUTE 30

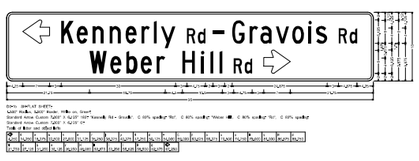


SHEET NO.	78.83.89.91
LOCATION	VAR.
ROADWAY	ROUTE 30

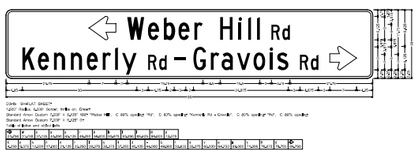


THIS SMALLER SIGN IS USED WHEN THE SIGN IS ON SIGNAL POST ITSELF RATHER THAN ON THE SIGNAL POST ARM

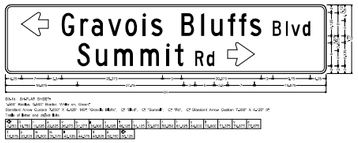
SHEET NO.	101
LOCATION	STA. 333+10
ROADWAY	ROUTE 30



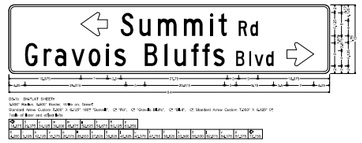
SHEET NO.	101
LOCATION	STA. 332+30
ROADWAY	ROUTE 30



SHEET NO.	105
LOCATION	STA. 518+20
ROADWAY	ROUTE 30



SHEET NO.	105
LOCATION	STA. 517+60
ROADWAY	ROUTE 30



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

09/30/2025 2:27:00 PM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
9/25/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	163

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

PROJECT NO.

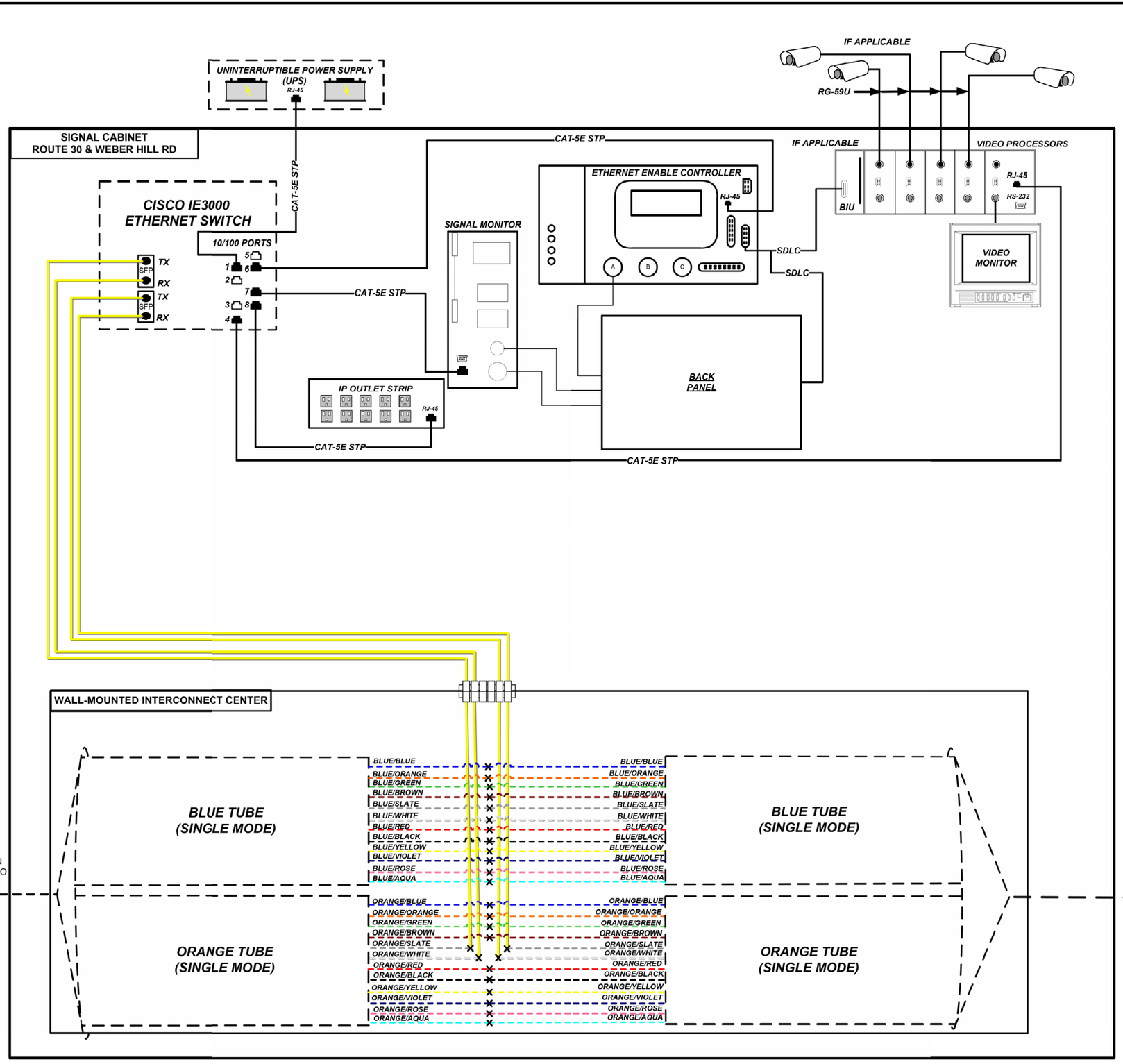
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SIGNING DETAILS
D31
SHEET 6 OF 6



KEY

IS170N123.4	DEVICE IDENTIFIER
CCTV	CCTV CAMERA
CCTV	EXISTING CCTV CAMERA
DMS	DYNAMIC MESSAGE SIGN
	RADAR DETECTION UNIT
	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
VDS AP	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.

VLAN VL0067

FIBER SPLICING & BLOCK DIAGRAM

MO030E040.6
ROUTE 30 & WEBER HILL RD

SHEET 1 of 12

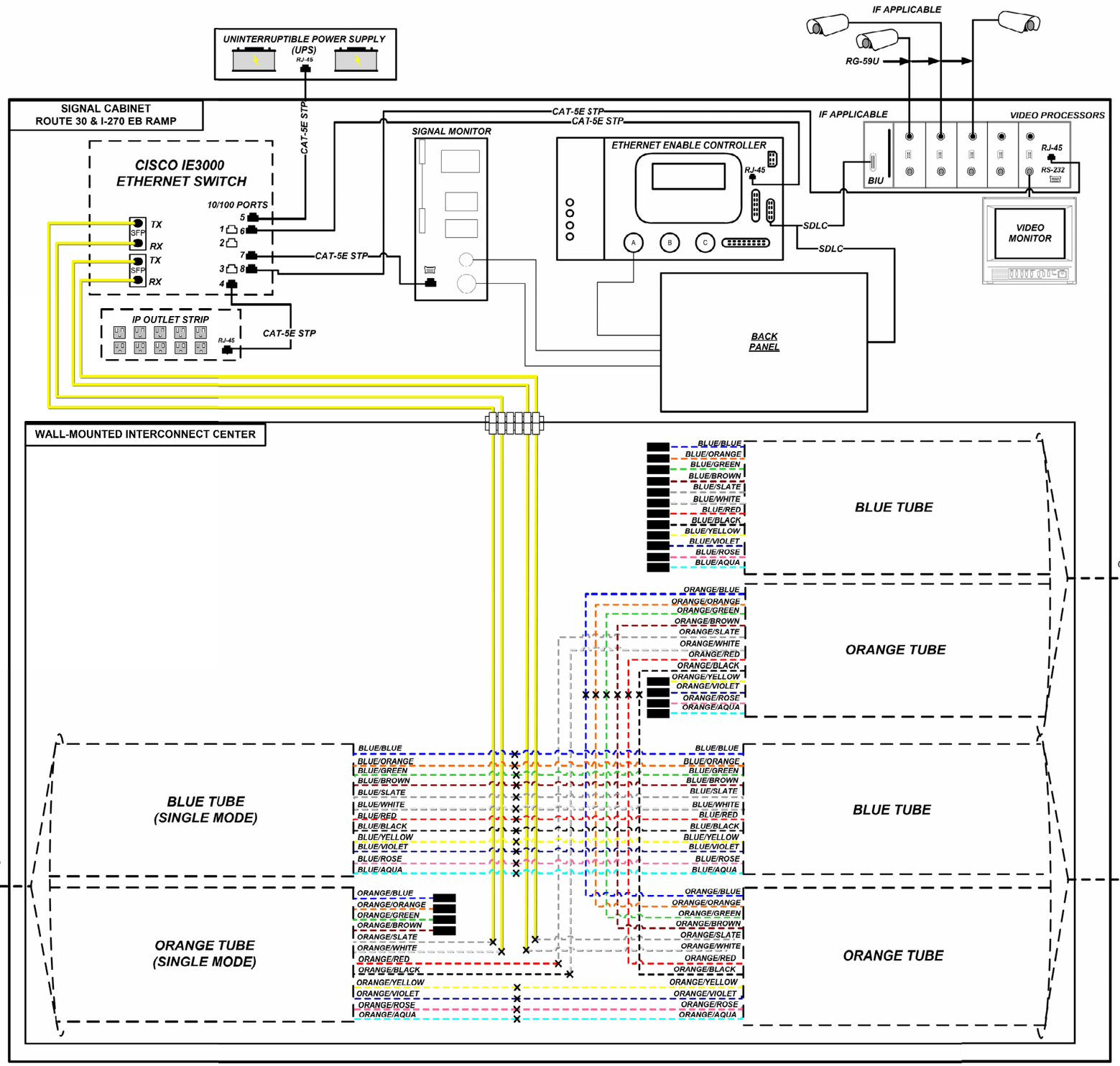
STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 8:23:44 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/21/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 164
COUNTY: ST. LOUIS
JOB NO.: JSL0081
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 DETAIL SHEET
WEBER HILL BLOCK SPLICING



KEY

IS170N123.4	DEVICE IDENTIFIER
CCTV	CCTV CAMERA
CCTV	EXISTING CCTV CAMERA
DMS	DYNAMIC MESSAGE SIGN
	RADAR DETECTION UNIT
	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
VDS AP	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.

VLAN VL0067

FIBER SPLICING & BLOCK DIAGRAM

MO030E040.7
ROUTE 30 & I-270 EB RAMP

SHEET 2 of 12

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
09/22/2025 8:24:01 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/21/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 165
COUNTY: ST. LOUIS
JOB NO.: JSL0081
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 DETAIL SHEET
I-270 EB RAMP BLOCK SPLICING

UNINTERRUPTIBLE POWER SUPPLY (UPS)
RJ-45
CAT-5E STP
CCTV
MO030E041.3
SIGNAL CABINET
ROUTE 30 & I-270 EB RAMP
CISCO IE3000
ETHERNET SWITCH
10/100 PORTS
TX
RX
SFP
IP OUTLET STRIP
SIGNAL MONITOR
ETHERNET ENABLE CONTROLLER
IF APPLICABLE
RG-59U
VIDEO PROCESSORS
BIU
RJ-45
RS-232
VIDEO MONITOR
SDLC
MEDIA CONVERTER
TX RX
BACK PANEL
WALL-MOUNTED INTERCONNECT CENTER
BLUE TUBE
ORANGE TUBE
BLUE/BLUE
BLUE/ORANGE
BLUE/GREEN
BLUE/BROWN
BLUE/SLATE
BLUE/WHITE
BLUE/RED
BLUE/BLACK
BLUE/YELLOW
BLUE/VIOLET
BLUE/ROSE
BLUE/AQUA
ORANGE/BLUE
ORANGE/ORANGE
ORANGE/GREEN
ORANGE/BROWN
ORANGE/SLATE
ORANGE/WHITE
ORANGE/RED
ORANGE/BLACK
ORANGE/YELLOW
ORANGE/VIOLET
ORANGE/ROSE
ORANGE/AQUA
24-FIBER BRANCH CABLE TO MO030E041.2
BLUE TUBE (SINGLE MODE)
ORANGE TUBE (SINGLE MODE)
24-FIBER DISTRIBUTION CABLE WEST TO MO030E040.8
NEW 24-FIBER DISTRIBUTION CABLE EAST TO US061S008.1

KEY

IS170N123.4	DEVICE IDENTIFIER
CCTV	CCTV CAMERA
CCTV	EXISTING CCTV CAMERA
DMS	DYNAMIC MESSAGE SIGN
	RADAR DETECTION UNIT
	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
VDS AP	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.

VLAN VL0067

FIBER SPLICING & BLOCK DIAGRAM

MO030E041.3
ROUTE 30 & GEYER RD

SHEET 3 of 12

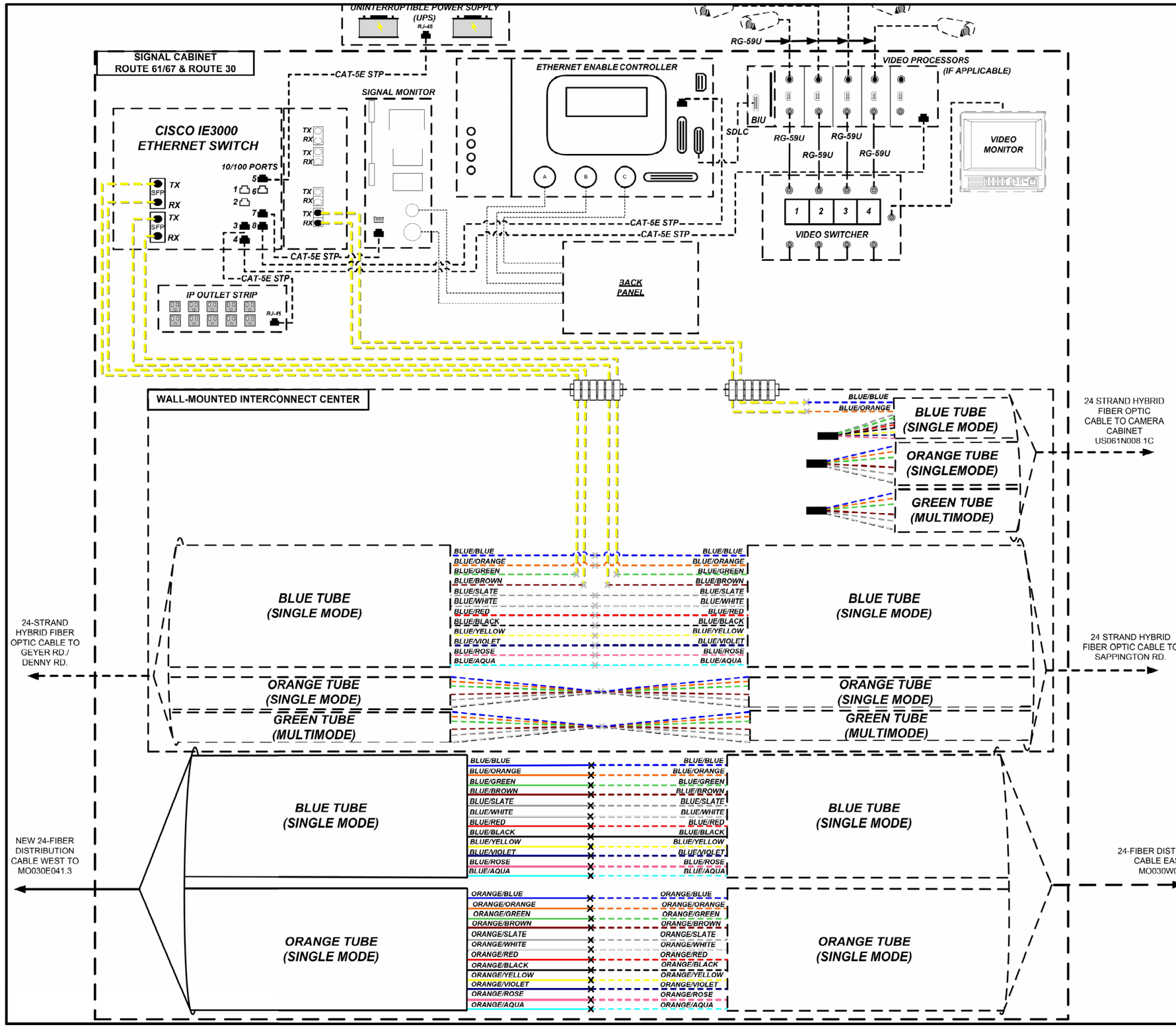
STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 8:24:17 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/21/2025
ROUTE: 30
STATE: MO
DISTRICT: SL
SHEET NO.: 166
COUNTY: ST. LOUIS
JOB NO.: JSL0081
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 DETAIL SHEET
GEYER BLOCK SPLICING



KEY

IS170N123.4	DEVICE IDENTIFIER
CCTV	CCTV CAMERA
CCTV	EXISTING CCTV CAMERA
DMS	DYNAMIC MESSAGE SIGN
	RADAR DETECTION UNIT
	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
VDS AP	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.

VLAN VL0204

FIBER SPLICING & BLOCK DIAGRAM

US061S008.1
US 61/67 AT ROUTE 30

SHEET 4 OF 12

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 8:24:28 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/21/2025

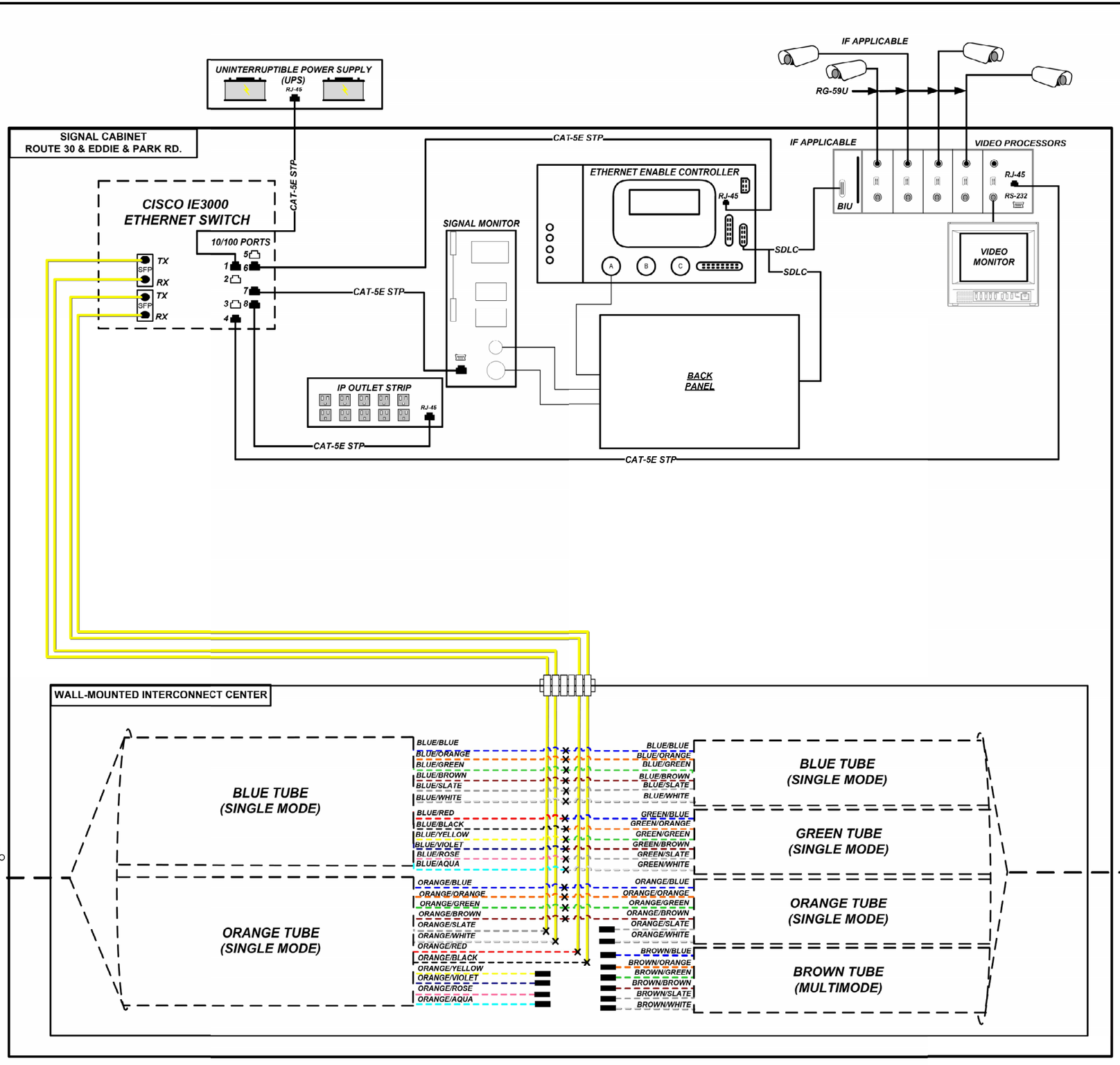
ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	167

COUNTY: ST. LOUIS
JOB NO.: JSL0081
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 DETAIL SHEET
RTE 61/67 BLOCK SPLICING



KEY

IS170N123.4	DEVICE IDENTIFIER
CCTV	CCTV CAMERA
CCTV	EXISTING CCTV CAMERA
DMS	DYNAMIC MESSAGE SIGN
	RADAR DETECTION UNIT
	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
VDS AP	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.

VLAN VL0067

FIBER SPLICING & BLOCK DIAGRAM

MO030W043.0
ROUTE 30 & EDDIE & PARK RD.

SHEET 5 of 12

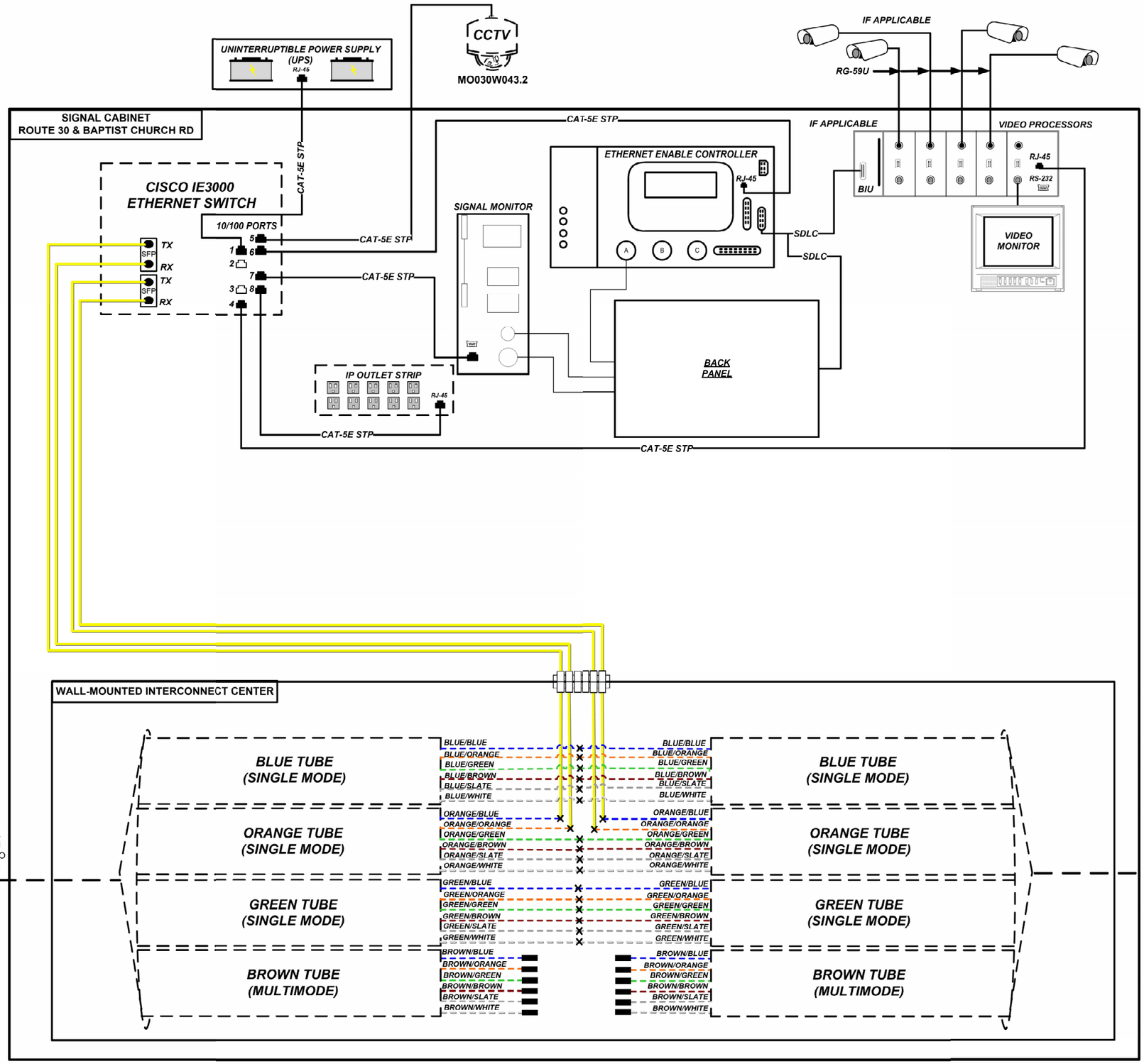
STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 8:24:40 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED	8/21/2025
ROUTE	30
STATE	MO
DISTRICT	SL
SHEET NO.	168
COUNTY	ST. LOUIS
JOB NO.	JSL0081
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 DETAIL SHEET
EDDIE & PARK BLOCK SPLICING



KEY

IS170N123.4	DEVICE IDENTIFIER
CCTV	CCTV CAMERA
CCTV	EXISTING CCTV CAMERA
DMS	DYNAMIC MESSAGE SIGN
	RADAR DETECTION UNIT
	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
VDS AP	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.

VLAN VL0082

FIBER SPLICING & BLOCK DIAGRAM

MO030W043.2
ROUTE 30 & BAPTIST CHURCH RD

SHEET 6 of 12

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
05/22/2025 8:28:58 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/21/2025

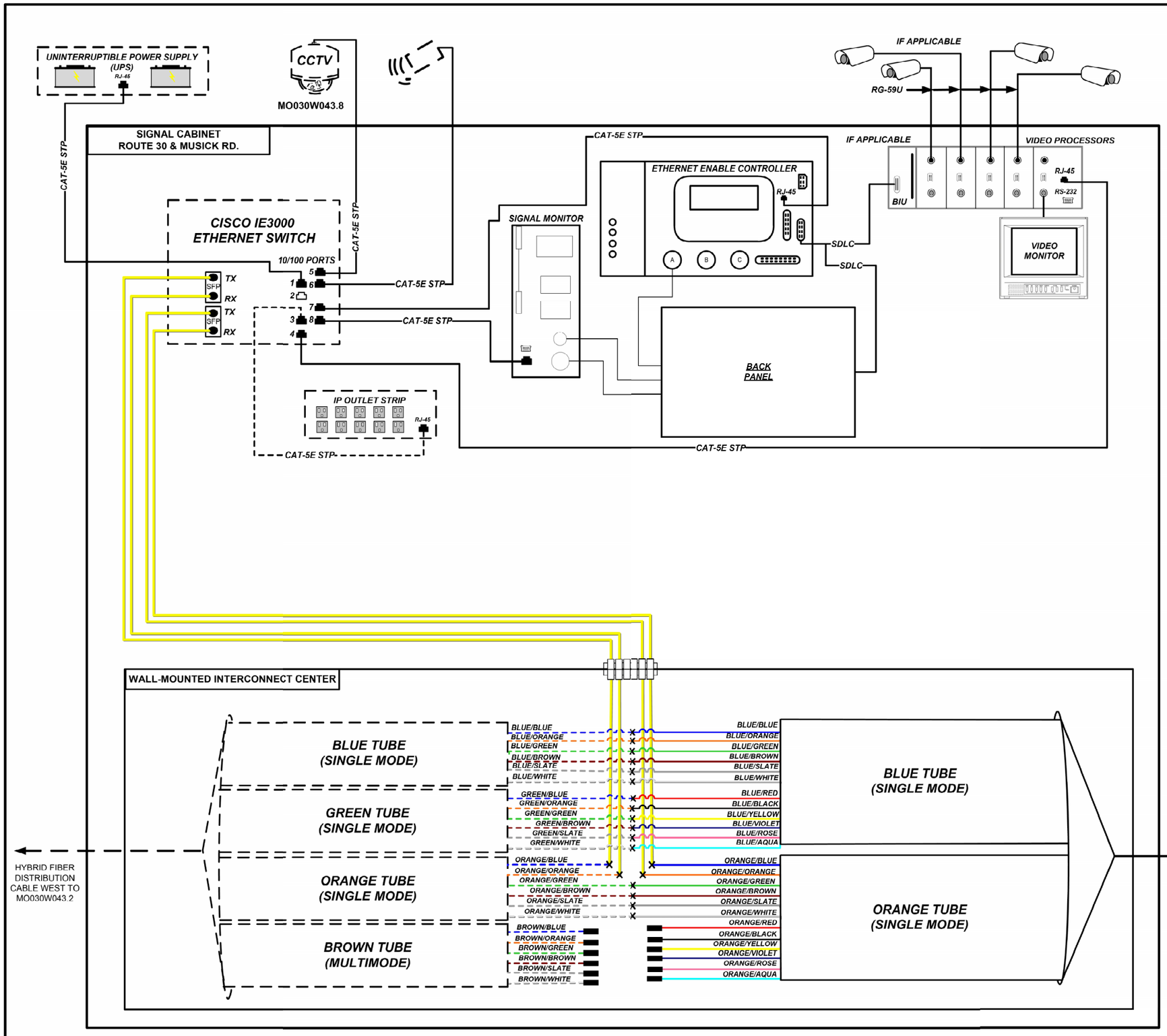
ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	169

COUNTY: ST. LOUIS
JOB NO.: JSL0081
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 DETAIL SHEET
BAPTIST CHURCH BLOCK SPLICING



KEY

IS170N123.4	DEVICE IDENTIFIER
CCTV	CCTV CAMERA
CCTV	EXISTING CCTV CAMERA
DMS	DYNAMIC MESSAGE SIGN
	RADAR DETECTION UNIT
	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
VDS AP	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.

VLAN VL0082

FIBER SPLICING & BLOCK DIAGRAM

MO030W043.8
ROUTE 30 & MUSICK RD.

SHEET 7 of 12

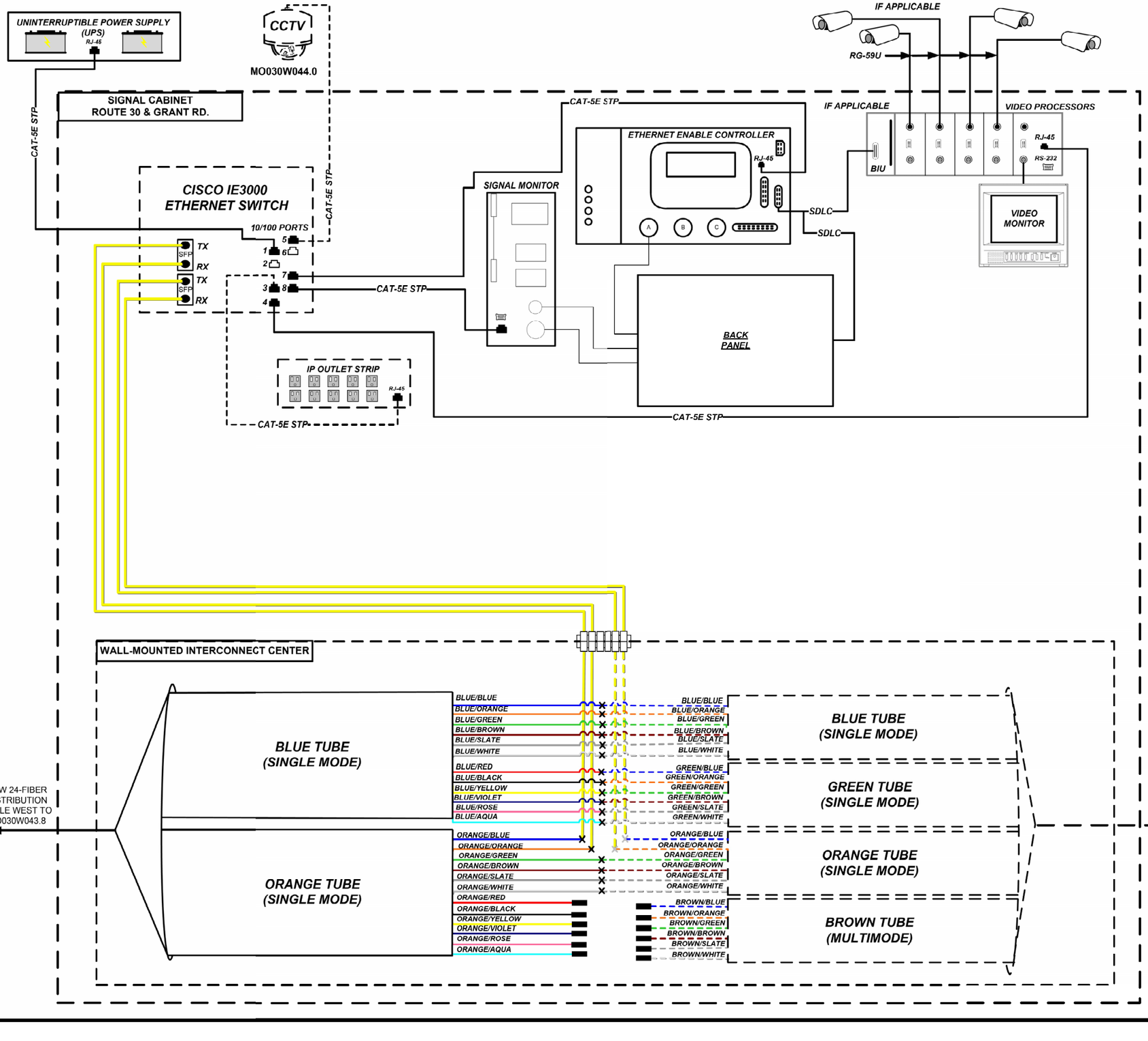
STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 8:29:12 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/21/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 170
COUNTY: ST. LOUIS
JOB NO.: JSL0081
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 DETAIL SHEET
MUSICK BLOCK SPLICING



KEY

IS170N123.4	DEVICE IDENTIFIER
CCTV	CCTV CAMERA
CCTV	EXISTING CCTV CAMERA
DMS	DYNAMIC MESSAGE SIGN
	RADAR DETECTION UNIT
	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
VDS AP	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.

VLAN VL0082

FIBER SPLICING & BLOCK DIAGRAM

MO030W044.0
ROUTE 30 & GRANT RD

SHEET 8 of 12

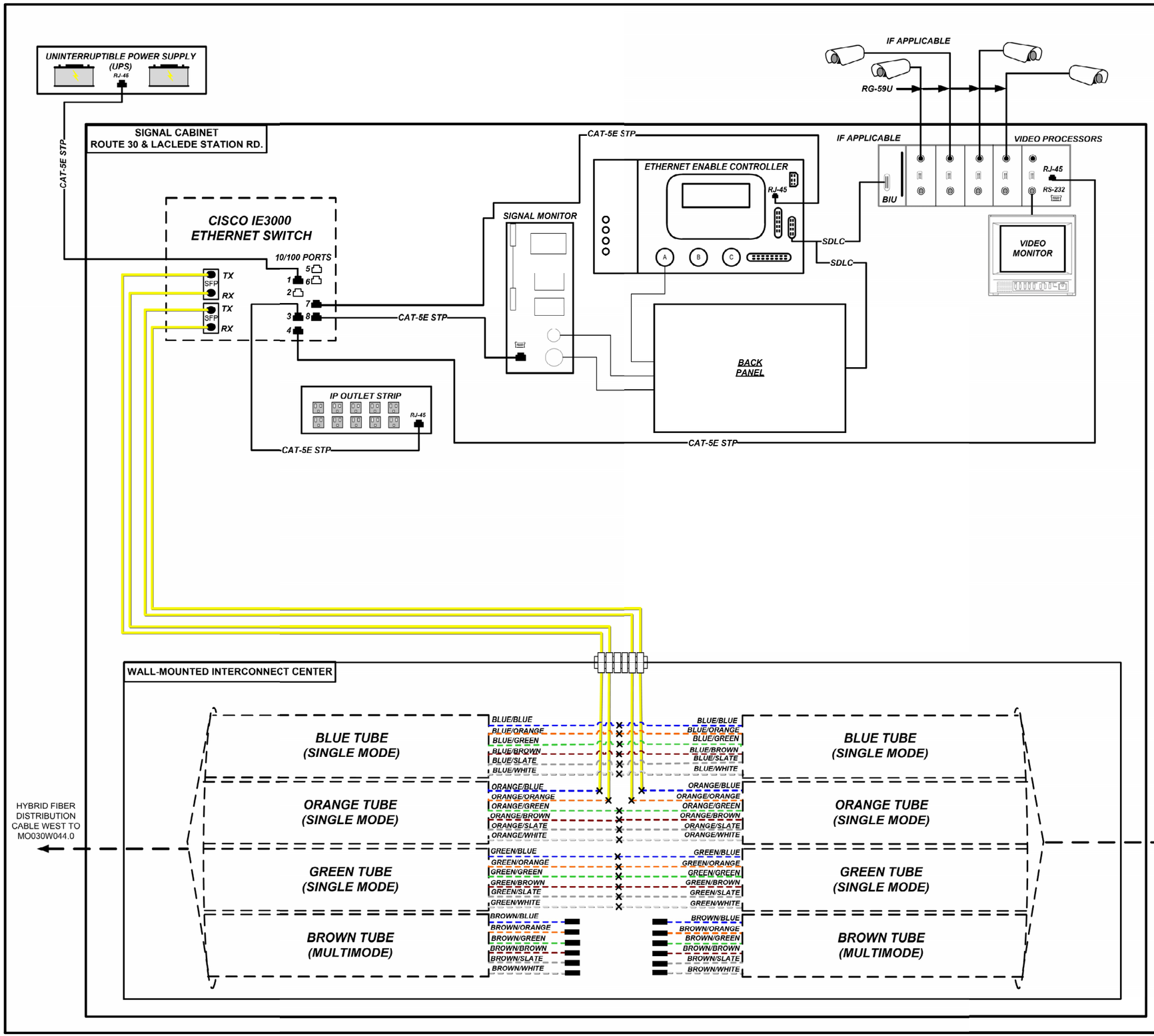
STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 8:23:22 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/21/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 171
COUNTY: ST. LOUIS
JOB NO.: JSL0081
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 DETAIL SHEET
GRANT BLOCK SPLICING



KEY

IS170N123.4	DEVICE IDENTIFIER
CCTV	CCTV CAMERA
CCTV	EXISTING CCTV CAMERA
DMS	DYNAMIC MESSAGE SIGN
	RADAR DETECTION UNIT
	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
VDS AP	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.

VLAN VL0082

FIBER SPLICING & BLOCK DIAGRAM

MO030E044.2
ROUTE 30 & LACLEDE STATION RD.

SHEET 9 of 12

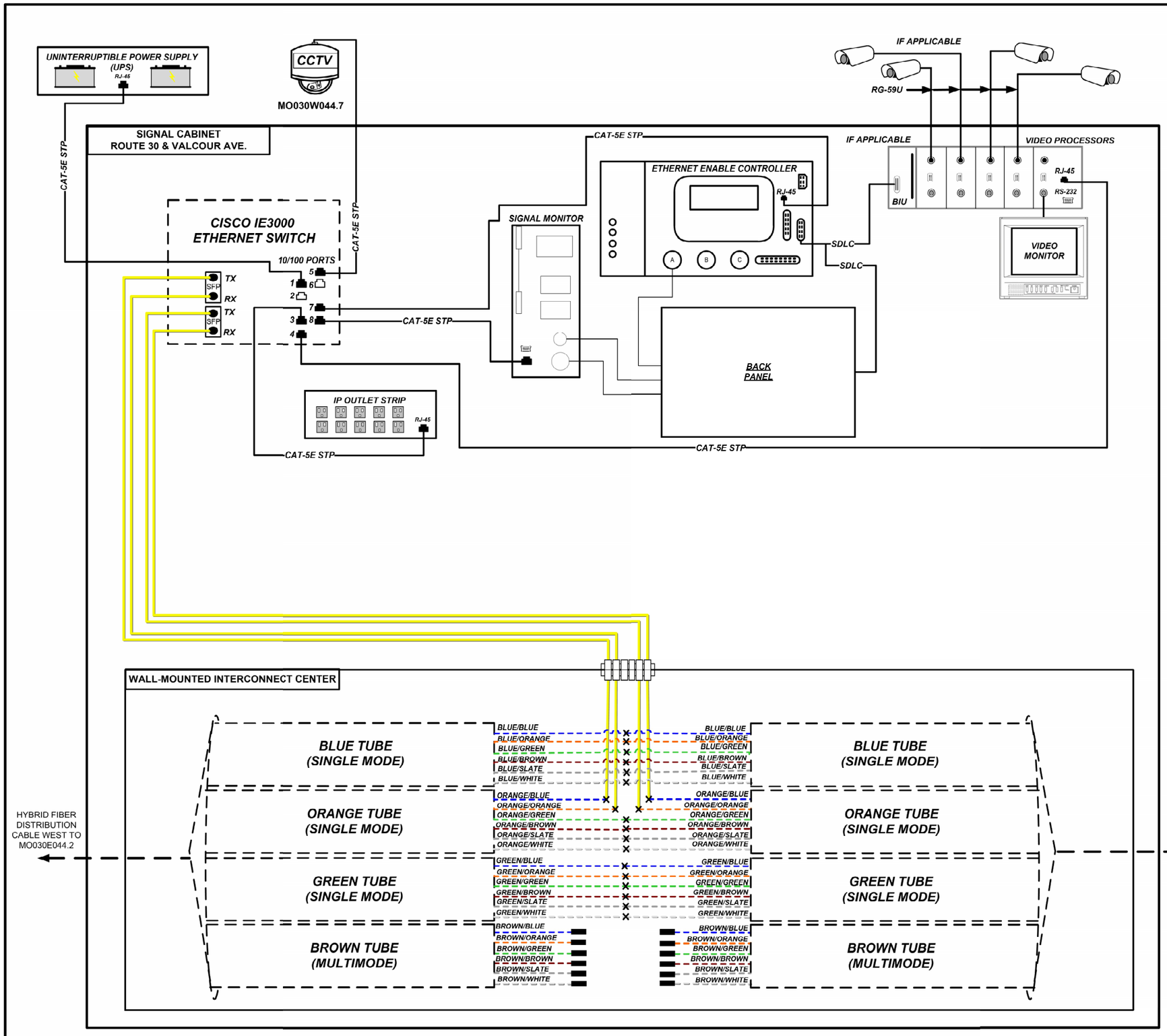
STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 8:29:34 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/21/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 172
COUNTY: ST. LOUIS
JOB NO.: JSL0081
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 DETAIL SHEET
LACLEDE STATION BLOCK SPLICING



KEY

IS170N123.4	DEVICE IDENTIFIER
CCTV	CCTV CAMERA
CCTV	EXISTING CCTV CAMERA
DMS	DYNAMIC MESSAGE SIGN
	RADAR DETECTION UNIT
	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
VDS AP	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.

VLAN VL0082

FIBER SPLICING & BLOCK DIAGRAM

MO030W044.7
ROUTE 30 & VALCOUR AVE.

SHEET 10 of 12

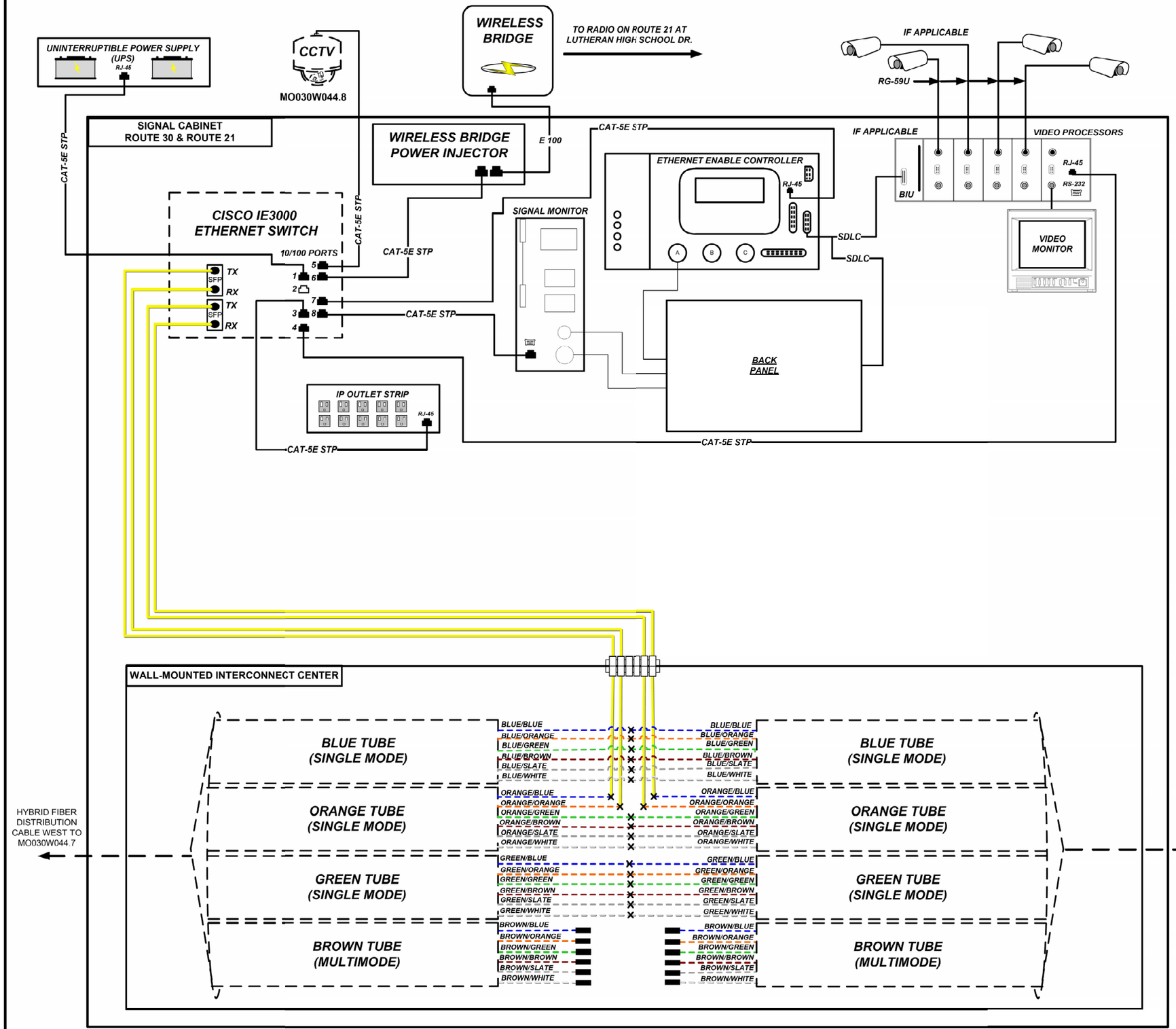
STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 8:29:58 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/21/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 173
COUNTY: ST. LOUIS
JOB NO.: JSL0081
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 DETAIL SHEET
VALCOUR BLOCK SPLICING



KEY

IS170N123.4	DEVICE IDENTIFIER
CCTV	CCTV CAMERA
CCTV	EXISTING CCTV CAMERA
DMS	DYNAMIC MESSAGE SIGN
	RADAR DETECTION UNIT
	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
VDS AP	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.

VLAN VL0082

FIBER SPLICING & BLOCK DIAGRAM

MO030W044.8
ROUTE 30 & ROUTE 21 (TESSON FERRY RD)

SHEET 11 of 12

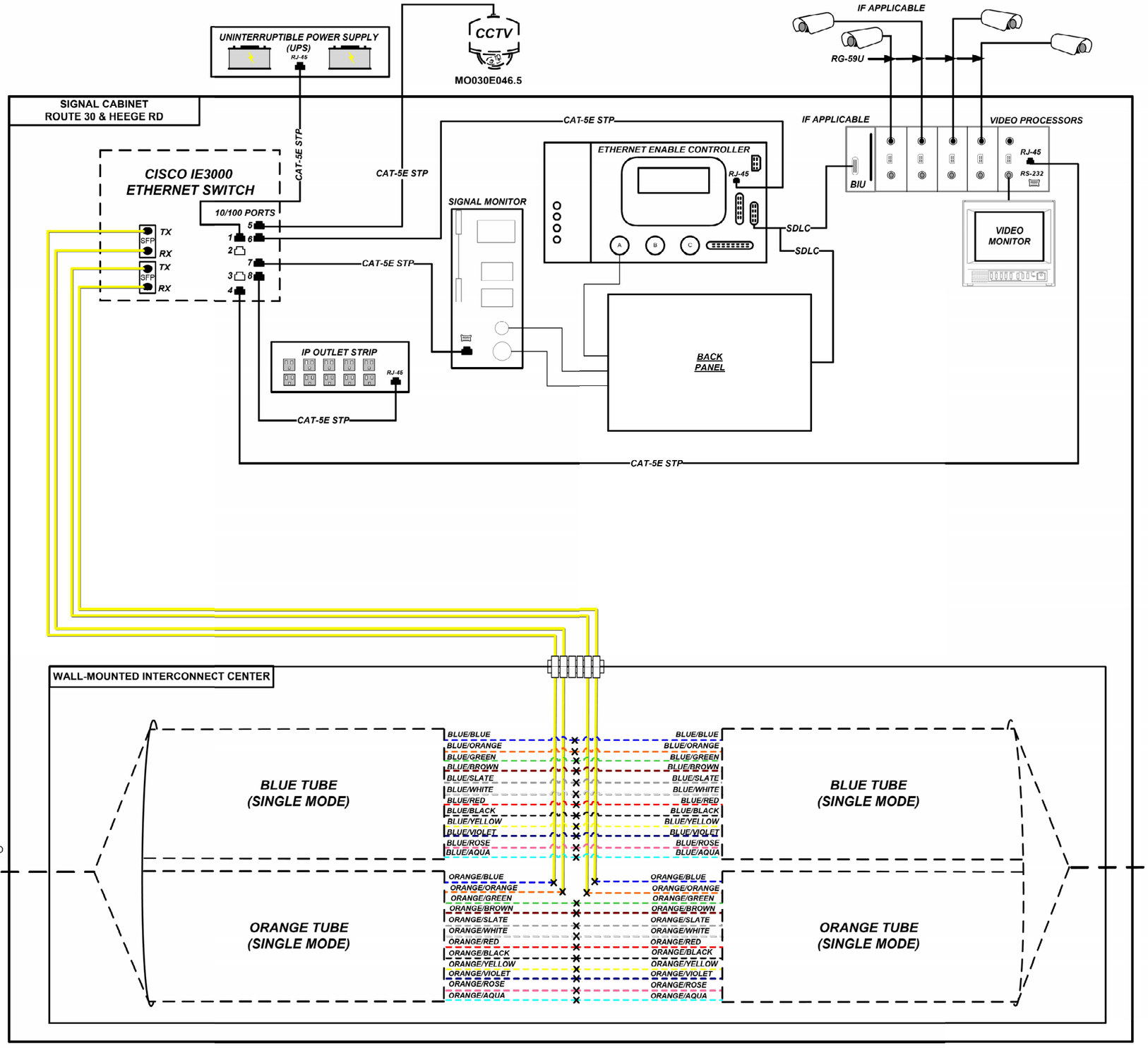
STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 8:30:09 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/21/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 174
COUNTY: ST. LOUIS
JOB NO.: JSL0081
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 DETAIL SHEET
RTE 21 BLOCK SPLICING



KEY

IS170N123.4	DEVICE IDENTIFIER
CCTV	CCTV CAMERA
CCTV	EXISTING CCTV CAMERA
DMS	DYNAMIC MESSAGE SIGN
	RADAR DETECTION UNIT
	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
VDS AP	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.

VLAN VL0082

FIBER SPLICING & BLOCK DIAGRAM

MO030E046.5
ROUTE 30 & HEEGE RD

SHEET 12 of 12

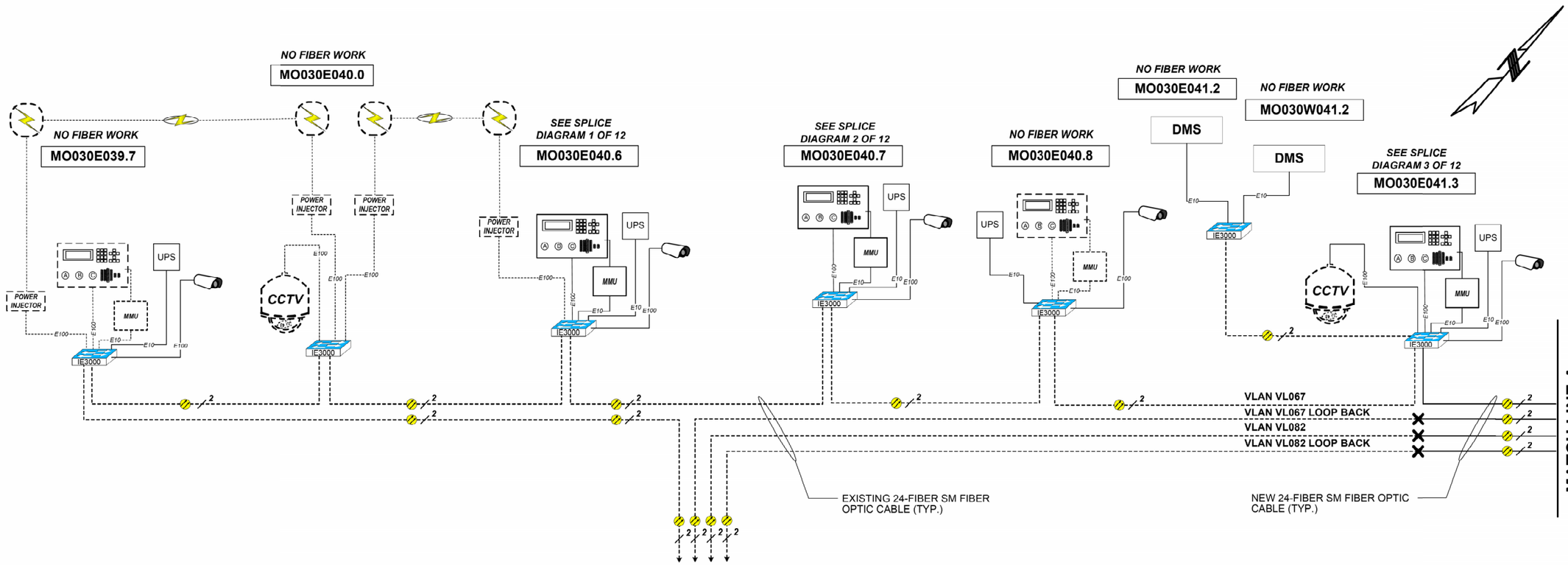
STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 8:30:22 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/21/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 175
COUNTY: ST. LOUIS
JOB NO.: JSL0081
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 DETAIL SHEET
HEEGE BLOCK SPLICING



COMMUNICATIONS PLAN

ROUTE 30
(GRAVOIS AVE.)
SHEET 1 OF 3

IS 055E001.8 — DEVICE IDENTIFIER

CCTV — EXISTING/ PROPOSED CCTV CAMERA

DMS — EXISTING DYNAMIC MESSAGE SIGN

5505 — EXISTING/PROPOSED CISCO ASA5505

IE3000 — EXISTING CISCO IE3000 SWITCH

BT — BLUETOOTH

EXISTING TRAFFIC SIGNAL CONTROLLER

MMU — EXISTING MALFUNCTION MANAGEMENT UNIT

CELL MODEM — EXISTING CELLULAR MODEM

EXISTING WIRELESS ETHERNET BRIDGE

POWER INJECTOR — EXISTING PROJECT INJECTOR

MC — EXISTING MEDIA CONVERTER

FO DATA MODEM — EXISTING FIBER OPTIC DATA MODEM

E10 — 10 MBPS ETHERNET

E100 — 100 MBPS ETHERNET

EXISTING VIDEO DETECTION SYSTEM

VDS AP — EXISTING SENSYS DETECTION SYSTEM

VD — EXISTING IP VIDEO ENCODER

DEVICE SERVER — EXISTING DEVICE SERVER

EXISTING RADAR DETECTION UNIT

MULTIMODE/ SINGLE MODE FIBER OPTIC CABLE

EXISTING WIRELESS CONNECTION

EXISTING / PROPOSED FUSION SPLICE

EXISTING CABLE

PROPOSED CABLE

DSL MODEM — PROPOSED DSL MODEM

NOTE:
1) DASHED LINES INDICATE EXISTING EQUIPMENT OR CABLING.
2) ALL FIBER SPLICES ARE NOT SHOWN FOR CLARITY. SEE SPLICE DIAGRAMS.

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 8:30:38 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/21/2025

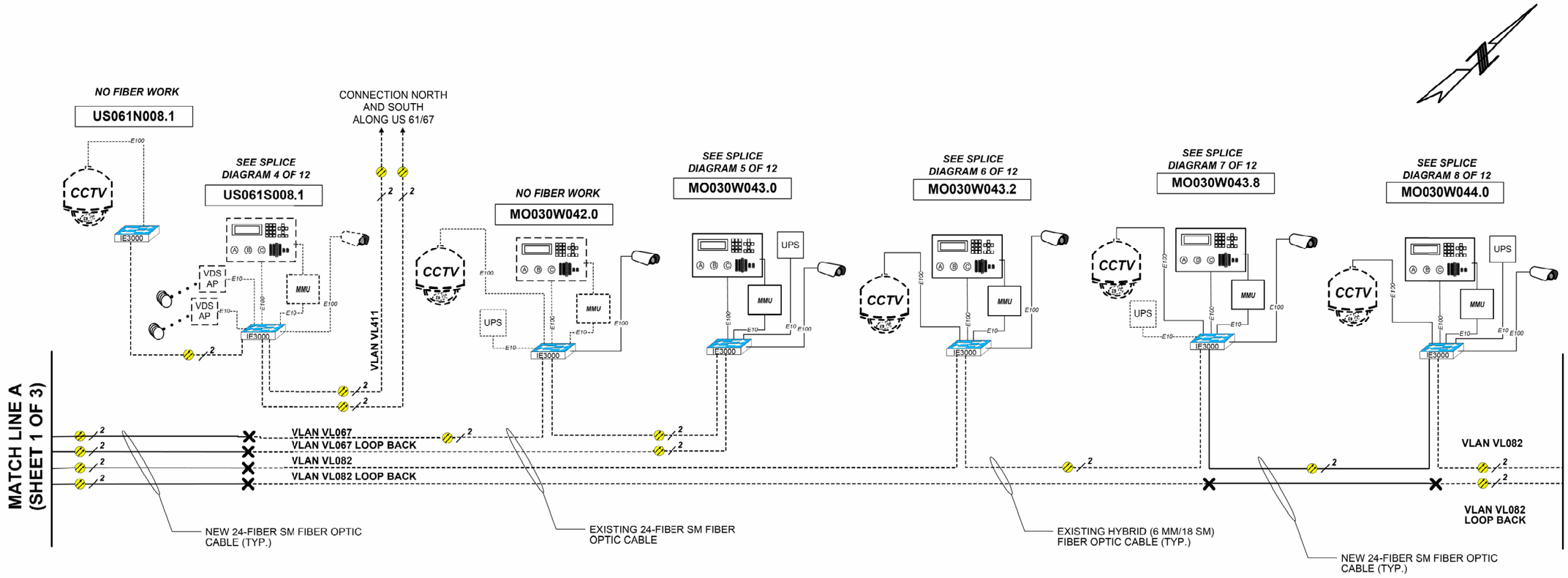
ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	176

COUNTY: ST. LOUIS
JOB NO.: JSL0081
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 DETAIL SHEET
COMMUNICATIONS PLAN
SHEET 1 OF 3



COMMUNICATIONS PLAN

ROUTE 30 (GRAVOIS AVE.) SHEET 2 OF 3

IS 055E 001.8 — DEVICE IDENTIFIER

CCTV — EXISTING/ PROPOSED CCTV CAMERA

DMS — EXISTING DYNAMIC MESSAGE SIGN

5505 — EXISTING/PROPOSED CISCO ASA5505

IE3000 — EXISTING CISCO IE3000 SWITCH

BT — BLUETOOTH

EXISTING TRAFFIC SIGNAL CONTROLLER

MMU — EXISTING MALFUNCTION MANAGEMENT UNIT

CELL MODEM — EXISTING CELLULAR MODEM

EXISTING WIRELESS ETHERNET BRIDGE

POWER INJECTOR — EXISTING PROJECT INJECTOR

MC — EXISTING MEDIA CONVERTER

FO DATA MODEM — EXISTING FIBER OPTIC DATA MODEM

E10 — 10 MBPS ETHERNET

E100 — 100 MBPS ETHERNET

EXISTING VIDEO DETECTION SYSTEM

VDS AP — EXISTING SENSYS DETECTION SYSTEM

VD — EXISTING IP VIDEO ENCODER

DEVICE SERVER — EXISTING DEVICE SERVER

EXISTING RADAR DETECTION UNIT

MULTIMODE/ SINGLE MODE FIBER OPTIC CABLE

EXISTING WIRELESS CONNECTION

EXISTING/PROPOSED FUSION SPLICE

EXISTING CABLE

PROPOSED CABLE

DSL MODEM — PROPOSED DSL MODEM

NOTE:
1) DASHED LINES INDICATE EXISTING EQUIPMENT OR CABLING.
2) ALL FIBER SPLICES ARE NOT SHOWN FOR CLARITY. SEE SPLICE DIAGRAMS.

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 8:31:44 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/21/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	177

COUNTY: ST. LOUIS

JOB NO.: JSL0081

CONTRACT ID.:

PROJECT NO.:

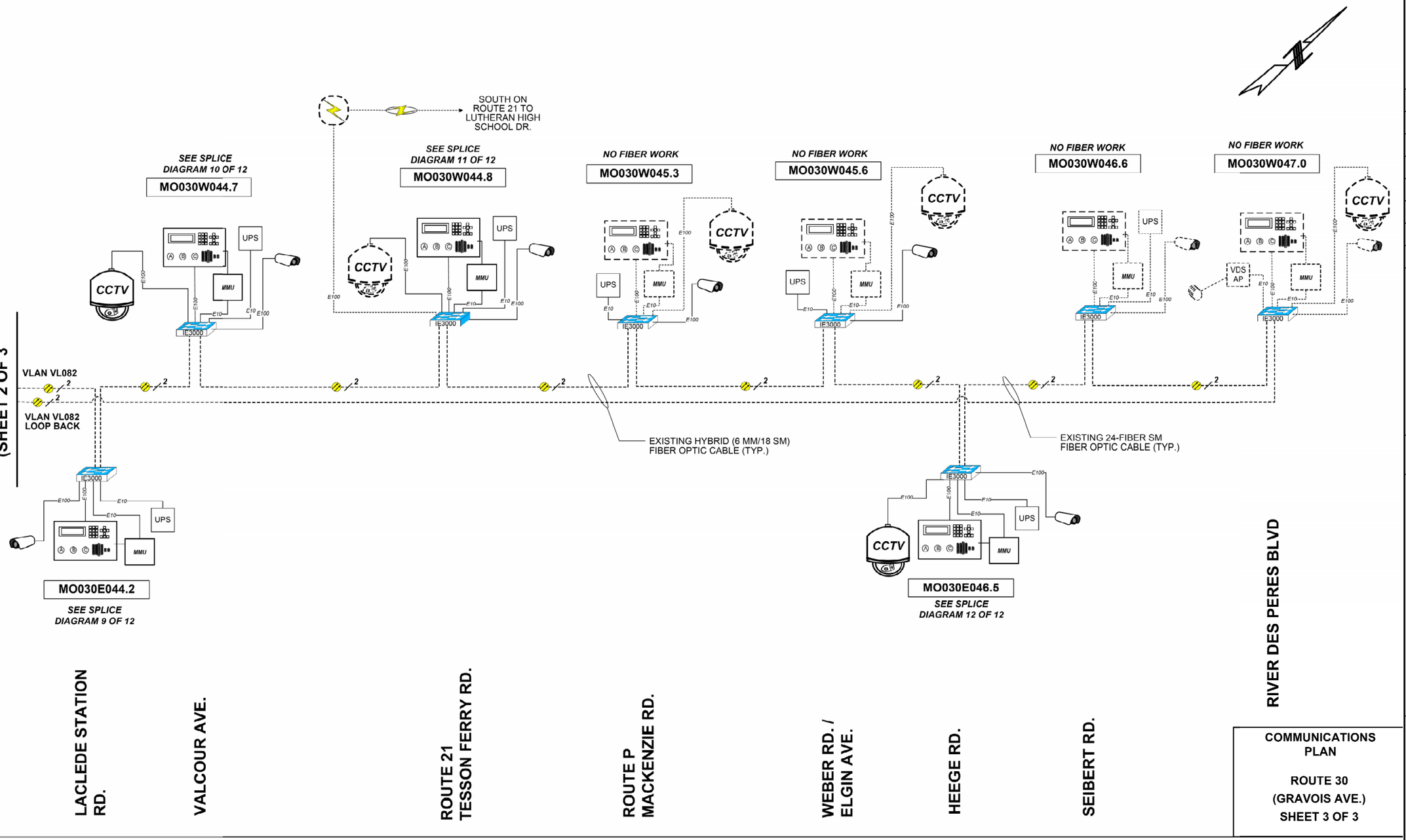
BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

ITS DETAIL SHEET
COMMUNICATIONS PLAN
SHEET 2 OF 3



COMMUNICATIONS PLAN

ROUTE 30 (GRAVOIS AVE.) SHEET 3 OF 3

IS055E001.8 — DEVICE IDENTIFIER

CCTV — EXISTING/ PROPOSED CCTV CAMERA

DMS — EXISTING DYNAMIC MESSAGE SIGN

5505 — EXISTING/PROPOSED CISCO ASA5505

IE3000 — EXISTING CISCO IE3000 SWITCH

BT — BLUETOOTH

EXISTING TRAFFIC SIGNAL CONTROLLER

MMU — EXISTING MALFUNCTION MANAGEMENT UNIT

CELL MODEM — EXISTING CELLULAR MODEM

EXISTING WIRELESS ETHERNET BRIDGE

POWER INJECTOR — EXISTING PROJECT INJECTOR

MC — EXISTING MEDIA CONVERTER

FO DATA MODEM — EXISTING FIBER OPTIC DATA MODEM

E10 — 10 MBPS ETHERNET

E100 — 100 MBPS ETHERNET

EXISTING VIDEO DETECTION SYSTEM

VDS AP — EXISTING SENSYS DETECTION SYSTEM

VD — EXISTING IP VIDEO ENCODER

DEVICE SERVER — EXISTING DEVICE SERVER

EXISTING RADAR DETECTION UNIT

MULTIMODE/ SINGLE MODE FIBER OPTIC CABLE

EXISTING WIRELESS CONNECTION

EXISTING/PROPOSED FUSION SPLICE

EXISTING CABLE

PROPOSED CABLE

DSL MODEM — PROPOSED DSL MODEM

NOTE:
1) DASHED LINES INDICATE EXISTING EQUIPMENT OR CABLING.
2) ALL FIBER SPLICES ARE NOT SHOWN FOR CLARITY. SEE SPLICE DIAGRAMS.

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 8:32:00 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/21/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	178

COUNTY: ST. LOUIS

JOB NO.: JSL0081

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 DETAIL SHEET
COMMUNICATIONS PLAN
SHEET 3 OF 3

GENERAL NOTES

1. BASELINES SHOWN ON PLANS ARE FOR INFORMATION PURPOSES ONLY AND ARE NOT STAKED IN THE FIELD.
2. FOR SYSTEM COMMUNICATION REQUIREMENTS, SEE COMMUNICATION PLANS AND SPECIAL PROVISIONS.
3. ALL BRIDGE CONDUIT RUNS SHALL NOT EXCEED 270° OF BENDS. CONDUITS OR OTHER ENTERABLE FITTINGS SHALL BE INCLUDED IN COST OF CONDUIT.
4. CONTRACTOR SHALL MAINTAIN 2' CONDUIT CLEARANCE FROM ALL LANDSCAPED FEATURES EXISTING WITHIN THE RIGHT OF WAY. ANY LANDSCAPING DISTURBED DURING CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL CONDITION AT THE EXPENSE OF THE CONTRACTOR.
5. CONTRACTOR SHALL COORDINATE THEIR ACTIVITIES WITH OTHER CONTRACTORS IN THE AREA.
6. THE MAINTAINING AGENCY IS THE MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION (MHTC).
7. ALL UTILITIES SHALL BE LOCATED AND MARKED PRIOR TO INITIATION OF CONSTRUCTION PER SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING UTILITIES AND LOCATOR SERVICES AND SCHEDULING THE LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL ALSO CONTACT ANY AND ALL UTILITIES AND LOCAL GOVERNMENT AGENCIES NOT PARTICIPATING IN LOCATION SERVICES.
8. PROPOSED ITS EQUIPMENT LOCATIONS ARE APPROXIMATE AND MAY BE MODIFIED TO AVOID CONFLICTS WITH UNDERGROUND UTILITIES OR OTHER OBSTRUCTIONS. THE CONTRACTOR SHALL RECEIVE APPROVAL FROM THE ENGINEER PRIOR TO REVISING THE LOCATION OF ANY OF THE ITS EQUIPMENT.
9. LOCATION OF ITS EQUIPMENT ON THE PLANS BY THE ENGINEER HAS BEEN PERFORMED WITHOUT FULL CONSIDERATION OF EXISTING UNDERGROUND UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ANY CONFLICTS WITH EXISTING UTILITIES AT SITES IN THE FIELD PRIOR TO INITIATION OF CONSTRUCTION PER SITE. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE ENGINEER UPON DETERMINATION OF ANY UTILITY CONFLICTS.
10. ALL ITS EQUIPMENT CALLED OUT BY PLANS AND SPECIFICATIONS AS "INSTALL" EQUIPMENT, INCLUDING DETECTOR ASSEMBLIES, CCTV ASSEMBLIES, ETHERNET SWITCHES, AND DMS ASSEMBLIES, SHALL INCLUDE ALL TRANSPORTATION, INSTALLATION AND TESTING OF MISSOURI DEPARTMENT OF TRANSPORTATION FURNISHED EQUIPMENT IN ACCORDANCE WITH THE SPECIFICATIONS.
11. ALL TRAFFIC CONTROL PLANS AND LANE CLOSURES SHALL BE PRE-APPROVED BY THE ENGINEER.
12. ALL WORK SHALL INCLUDE THE RESTORATION OF ANY DISTURBED AREAS AS DIRECTED BY THE ENGINEER. ALL GRADING WORK SHALL PROVIDE POSITIVE DRAINAGE.
13. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY EXISTING CONDUIT, CONDUCTORS OR OTHER FACILITIES DAMAGED DURING CONSTRUCTION. ALL EXISTING IMPROVEMENTS NOT SPECIFICALLY IDENTIFIED AS BEING REMOVED OR RELOCATED IN THE PLANS THAT ARE DISTURBED OR OTHERWISE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED IN KIND BY THE CONTRACTOR, WITH NO ADDITIONAL COMPENSATION.
14. THE PLANS DEPICT CONDUIT ROUTING IN SCHEMATIC FORM ONLY. THE CONTRACTOR SHALL DETERMINE FINAL ROUTING BASED ON ACTUAL FIELD CONDITIONS PRIOR TO CONSTRUCTION AT EACH SITE, INCLUDING UTILITY LOCATOR SERVICE MARKINGS, TO PREVENT CONFLICTS WITH EXISTING UTILITIES.
15. ALL CONDUITS SHALL BE NEW. SINGLE CELL CONDUITS ON BRIDGES SHALL BE RIGID GALVANIZED STEEL.
16. PULL ROPES ARE REQUIRED IN ALL EMPTY CONDUIT CELLS. PULL ROPES SHALL BE POLYPROPYLENE WITH A MINIMUM TENSILE STRENGTH OF 600 POUNDS.
17. THE CONTRACTOR SHALL FIELD REVIEW NECESSARY ROUTING, MOUNTING HARDWARE, INCLUDING BRIDGE HANGERS, FITTINGS, EXPANSION JOINTS AND JUNCTION BOXES FOR ALL EXTERNALLY MOUNTED CONDUITS PRIOR TO SUBMITTAL OF BID TO DETERMINE THE TYPES AND EXTENT OF INCIDENTAL ITEMS TO BE INCLUDED IN THE UNIT PRICE OF CONDUIT.
18. THE CONTRACTOR SHALL FIELD REVIEW NECESSARY ROUTING OF CONDUIT AND LOCATION OF PULL BOXES PRIOR TO SUBMITTAL OF BID TO DETERMINE THE TYPES AND EXTENT OF INCIDENTAL REMOVAL, RELOCATION AND REPLACEMENT ITEMS TO BE INCLUDED IN THE UNIT PRICE OF CONDUIT AND PULL BOXES.
19. WARNING TAPE IS REQUIRED IN ALL TRENCHES CONTAINING CONDUIT.
20. JACKETED #14 AWG XHHW-2 SOLID STANDARD BLUE LOCATOR WIRE SHALL BE PLACED IN ALL UNDERGROUND NON-METALLIC CONDUITS BONDED TO GROUNDING RODS WITHIN A PULL BOX. APPROVED LOCATOR WIRE SHALL BE MOUNTED TO THE SIDE WALL OF EACH PULL BOX.
21. CONTRACTOR MAY BORE OR HORIZONTALLY DRILL WHEREVER TRENCHING IS SHOWN AT THE CONTRACTOR'S EXPENSE.
22. GROUND CONDUCTOR SHALL BE 1/C #6 UNLESS OTHERWISE NOTED ON THE PLANS.
23. EXPANSION FITTING SHALL BE PROVIDED WHEN CONDUIT PASSES ACROSS EXISTING EXPANSION DEVICES AND FILLED JOINTS ON BRIDGES INCLUDING FILLED JOINTS IN SAFETY BARRIER CURBS. THE DISTANCE BETWEEN EXPANSION FITTINGS SHALL NOT BE GREATER THAN 150 FEET. EXPANSION FITTINGS ON CONDUIT SHALL PROVIDE A MINIMUM MOVEMENT IN EITHER DIRECTION OF 4" AT OPEN JOINTS, BETWEEN ABUTMENT AND SUPER-STRUCTURES ENCOUNTERED AFTER RISING OUT OF THE GROUND AND 2" AT FILLED JOINTS. EXPANSION FITTINGS SHALL BE PROVIDED WITH A 2' BONDING JUMPER AROUND FITTING. BONDING JUMPER SHALL BE COMPATIBLE WITH CONDUIT MATERIAL. LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED IN LOCATIONS WHERE CONDUIT CROSSES OVER BRIDGE SUPERSTRUCTURE, SUBSTRUCTURE OR SIGN STRUCTURES, OR AS OTHERWISE SHOWN IN THE PLANS.
24. THE GALVANIZED CONE EXPANSION ANCHOR SYSTEM SHALL BE USED FOR ATTACHING CONDUIT SUPPORTS AND JUNCTION BOXES TO STRUCTURAL CONCRETE.
25. ALL GROUNDING SYSTEMS SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
26. SLACK FIBER OPTIC CABLE SHALL BE STORED ACCORDING TO THE SPECIAL PROVISIONS. 20' OF SLACK FIBER OPTIC CABLE SHALL BE STORED IN EVERY PULL BOX. FOR EACH FIBER OPTIC CABLE THAT ENTERS A PULL BOX ADJACENT TO A CABINET, 60' OF SLACK CABLE SHALL BE STORED.
27. THE LOG MILE SYSTEM USED FOR THE NAMING CONVENTION OF THE DEVICES REFLECTS THE WEST TO EAST AND NORTH TO SOUTH CONTINUOUS LOG CONVENTION USED FOR THE INTERSTATE SYSTEM, BEGINNING WITH 0 AT THE WEST AND SOUTH ENDS OF A ROUTE.
28. THE CONTRACTOR SHALL MAINTAIN POWER AND COMMUNICATIONS TO EXISTING ITS DEVICES. THE ONLY EXCEPTION SHALL BE WHEN THE CONTRACTOR IS REPLACING A DMS, MODIFYING ELECTRICAL CIRCUITS OR MODIFYING FIBER OPTIC NETWORK CONNECTIONS. NOTIFY THE ENGINEER AT LEAST 7 DAYS BEFORE EXISTING DMS ARE TAKEN OUT OF SERVICE
29. TRENCH EXCAVATION AND DIRECTIONAL DRILLING REQUIRED FOR THE INSTALLATION OF CONDUITS SHALL INCLUDE THE RESTORATION OF THE AREA IN ACCORDANCE WITH THE SPECIFICATIONS. THE RESTORATION SHALL INCLUDE FENCE REMOVAL AND REPLACEMENT, SIGN RELOCATION, UNDERDRAINS, AND RIPRAP OR OTHER EXISTING SLOPE PROTECTION APPURTENANCE.
30. TREES AND SHRUBS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE, AS DIRECTED BY THE ENGINEER.
31. ALL ELECTRICAL CABLES IN PULL BOXES AND EQUIPMENT CABINETS SHALL BE PROVIDED WITH INDIVIDUAL BRASS TAGS, DIE STAMPED WITH PHASE AND CIRCUIT IDENTIFICATIONS.

LOG MILE ID

IS044E250.5C

- TYPE: S-DMS, C-CAMERA, D-DETECTOR, CA-CABINET & W-WRONG-WAY CAMERA
- LOG MILE - THE ROUTE LOG MILE AT THE LOCATION
- DIRECTION - DIRECTION OF TRAVEL ON NEAREST LANE
- ROUTE - ROUTE NUMBER OR LETTER
- ROUTE TYPE: IS-INTERSTATE, MO-MISSOURI NUMBERED ROUTE, RT-MISSOURI LETTERED ROUTE AND OR - OUTER ROAD

LEGEND

	EXISTING / PROPOSED
DYNAMIC MESSAGE SIGN	
DETECTOR, MICROWAVE	
DETECTOR, CONTINUOUS TRAFFIC COUNT	
CCTV CAMERA	
WRONG WAY DRIVING (WWD) CAMERA	
POLE-MOUNTED FIELD TERMINAL CABINET	
BASE-MOUNTED FIELD TERMINAL CABINET	
DETECTION ZONE	
CONDUIT, TRENCH	
CONDUIT, DIRECTIONAL DRILL	
CONDUIT, EXTERNAL ON STRUCTURE	
CONDUIT, ABANDON	
PULLBOX, CLASS 1 PREFORMED	
CLASS 1/2 ITS PULLBOX	
CLASS 5 ITS PULLBOX	
POLE	
POWER SUPPLY PEDESTAL	
WIRELESS ACCESS POINT	
FIBER DELINEATOR	
UNINTERRUPTIBLE POWER SUPPLY (UPS)	

ACRONYMS: (R)-REMOVAL & (UIP)-USE IN PLACE

ITS GENERAL NOTES
SHEET 1 OF 1

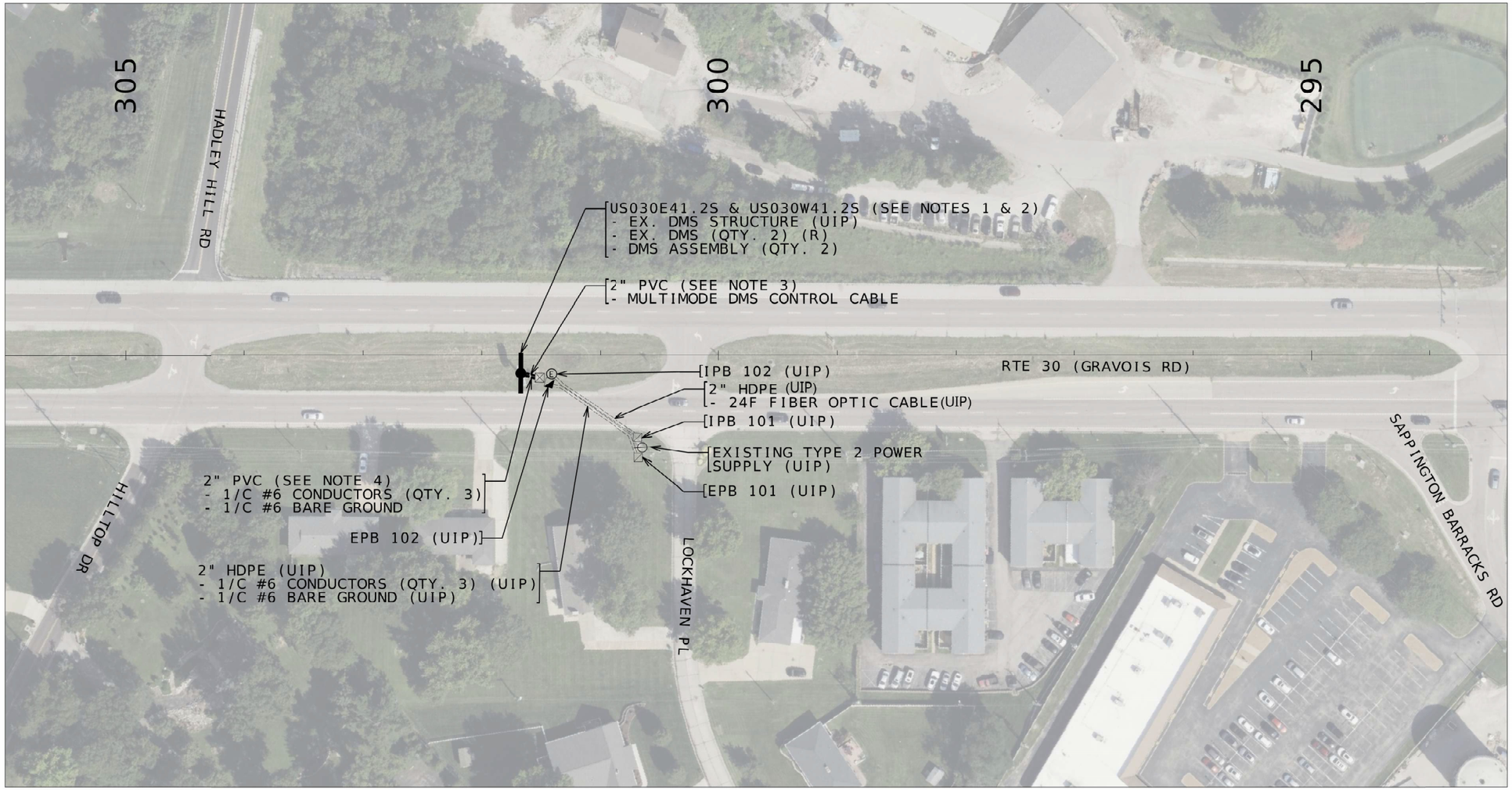
STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 8:32:17 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/21/2025
ROUTE: 30 | STATE: MO
DISTRICT: SL | SHEET NO.: 179
COUNTY: ST. LOUIS
JOB NO.: JSL0081
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 DETAIL SHEET
GENERAL NOTES



NOTES:
1. REPLACE BOTH DMS WITH NEW FULL COLOR HIGH RESOLUTION DMS.
2. INSTALL NEW DMS CONTROLERS IN EXISTING CABINET.
3. INSTALL MULTIMODE COMMUNICATIONS CABLES BETWEEN THE NEW DMS AND CONTROLLERS IN THE CABINET.
4. INSTALL 3-1C#6 CONDUCTORS AND 1-1C#6 BARE GROUND BETWEEN EACH NEW DMS AND THE EXISTING CABINET.

SCALE
0 50 100 150

DYNAMIC MESSAGE SIGN
REPLACEMENT PLAN
SHEET 1 OF 1

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 8:33:32 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED
8/21/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	180

COUNTY
ST. LOUIS

JOB NO.
JSL0081

CONTRACT ID.

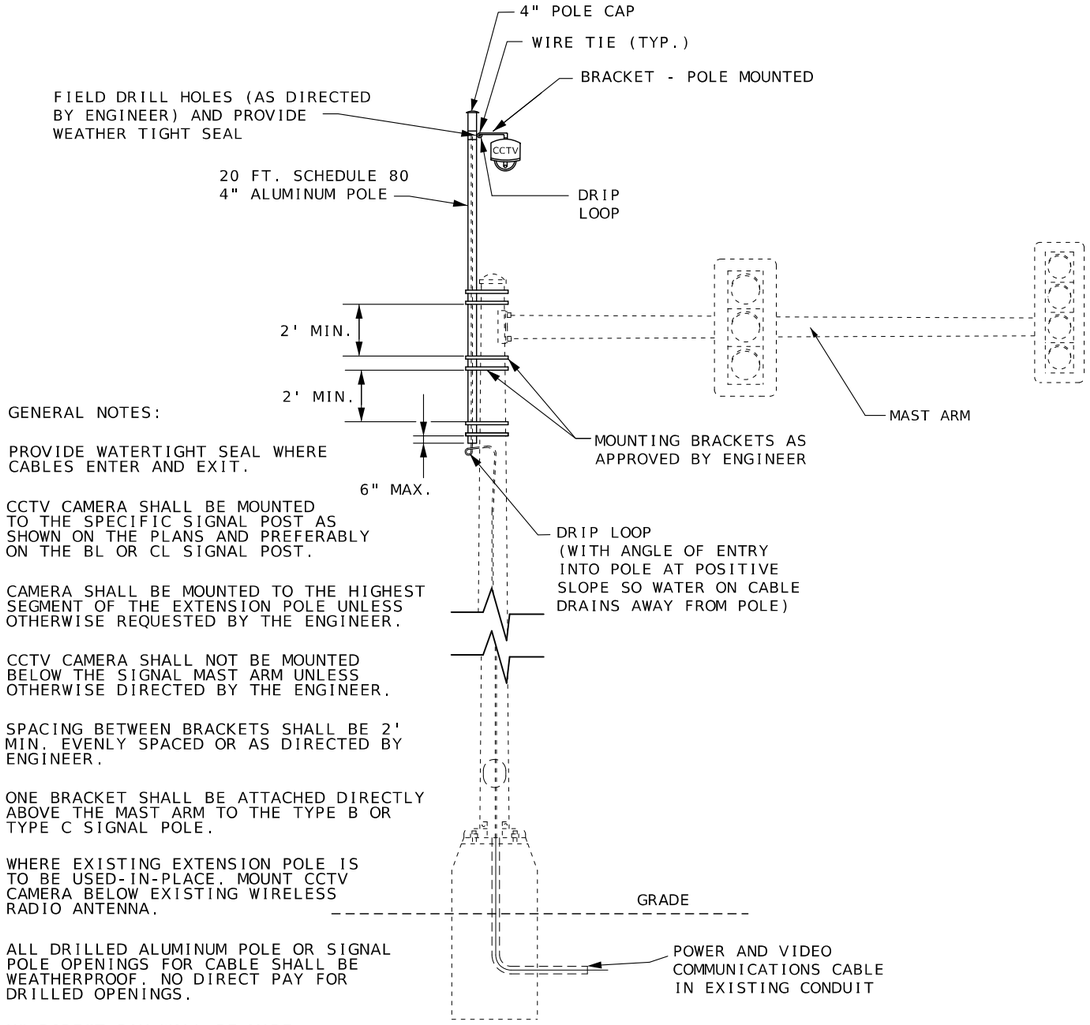
PROJECT NO.

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 DETAIL SHEET
DMS REPLACEMENT PLAN



GENERAL NOTES:

PROVIDE WATERTIGHT SEAL WHERE CABLES ENTER AND EXIT.

CCTV CAMERA SHALL BE MOUNTED TO THE SPECIFIC SIGNAL POST AS SHOWN ON THE PLANS AND PREFERABLY ON THE BL OR CL SIGNAL POST.

CAMERA SHALL BE MOUNTED TO THE HIGHEST SEGMENT OF THE EXTENSION POLE UNLESS OTHERWISE REQUESTED BY THE ENGINEER.

CCTV CAMERA SHALL NOT BE MOUNTED BELOW THE SIGNAL MAST ARM UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

SPACING BETWEEN BRACKETS SHALL BE 2' MIN. EVENLY SPACED OR AS DIRECTED BY ENGINEER.

ONE BRACKET SHALL BE ATTACHED DIRECTLY ABOVE THE MAST ARM TO THE TYPE B OR TYPE C SIGNAL POLE.

WHERE EXISTING EXTENSION POLE IS TO BE USED-IN-PLACE, MOUNT CCTV CAMERA BELOW EXISTING WIRELESS RADIO ANTENNA.

ALL DRILLED ALUMINUM POLE OR SIGNAL POLE OPENINGS FOR CABLE SHALL BE WEATHERPROOF. NO DIRECT PAY FOR DRILLED OPENINGS.

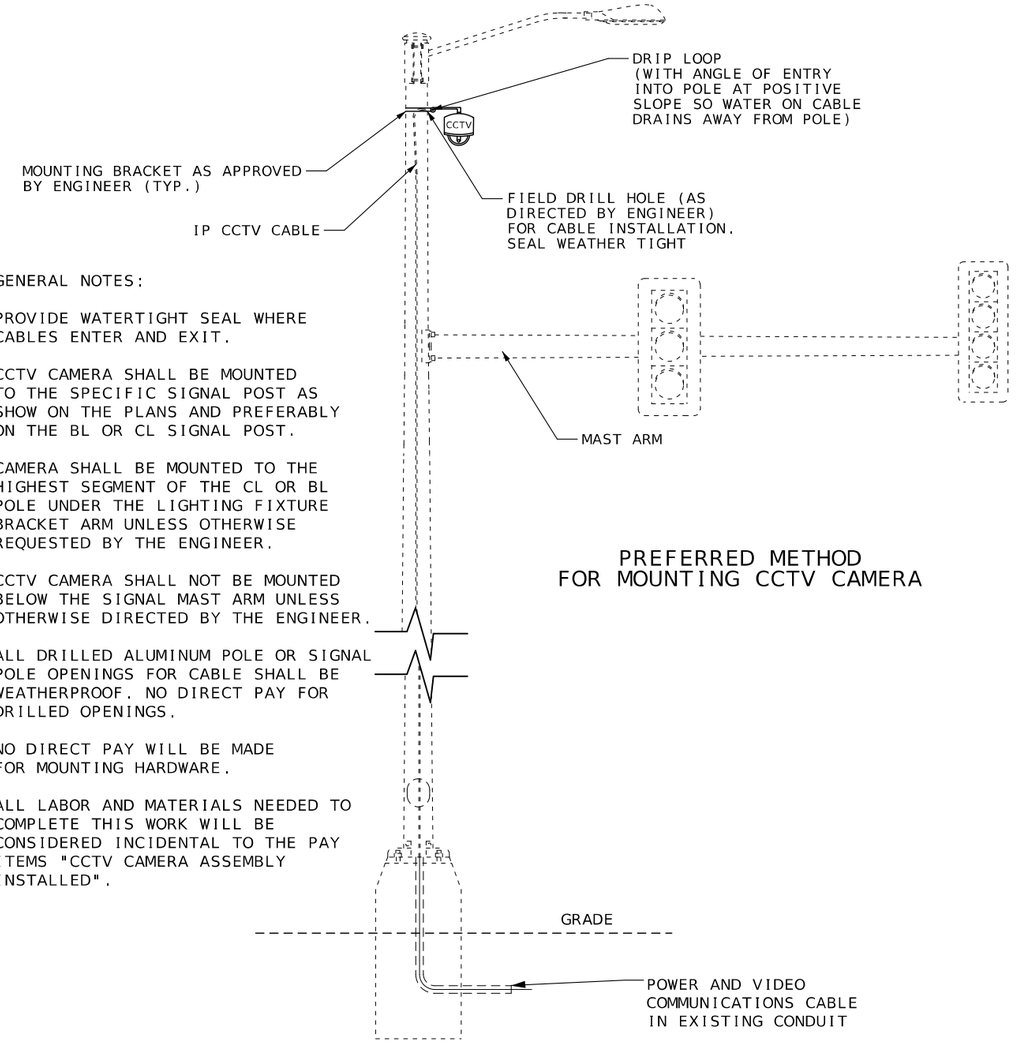
NO DIRECT PAY WILL BE MADE FOR MOUNTING HARDWARE.

ALL LABOR AND MATERIALS NEEDED TO COMPLETE THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE PAY ITEMS "CCTV CAMERA ASSEMBLY INSTALLED".

NOT TO SCALE

CCTV MOUNTING ON NEW OR EXISTING C OR B SIGNAL POST WITH EXTENSION POLE

REVISED 6-06-2024



GENERAL NOTES:

PROVIDE WATERTIGHT SEAL WHERE CABLES ENTER AND EXIT.

CCTV CAMERA SHALL BE MOUNTED TO THE SPECIFIC SIGNAL POST AS SHOW ON THE PLANS AND PREFERABLY ON THE BL OR CL SIGNAL POST.

CAMERA SHALL BE MOUNTED TO THE HIGHEST SEGMENT OF THE CL OR BL POLE UNDER THE LIGHTING FIXTURE BRACKET ARM UNLESS OTHERWISE REQUESTED BY THE ENGINEER.

CCTV CAMERA SHALL NOT BE MOUNTED BELOW THE SIGNAL MAST ARM UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

ALL DRILLED ALUMINUM POLE OR SIGNAL POLE OPENINGS FOR CABLE SHALL BE WEATHERPROOF. NO DIRECT PAY FOR DRILLED OPENINGS.

NO DIRECT PAY WILL BE MADE FOR MOUNTING HARDWARE.

ALL LABOR AND MATERIALS NEEDED TO COMPLETE THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE PAY ITEMS "CCTV CAMERA ASSEMBLY INSTALLED".

NOT TO SCALE

PREFERRED METHOD FOR MOUNTING CCTV CAMERA

CCTV MOUNTING ON NEW OR EXISTING CL OR BL SIGNAL POST WITH LUMINAIRE

STATE OF MISSOURI
STUART ROBINSON McNEIL
NUMBER PE-2006019687
PROFESSIONAL ENGINEER
08/22/2025 8:33:47 AM
STUART ROBINSON McNEIL - CIVIL
MO-PE-2006019687

DATE PREPARED: 8/21/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
SL	181

COUNTY: ST. LOUIS
JOB NO.: JSL0081
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

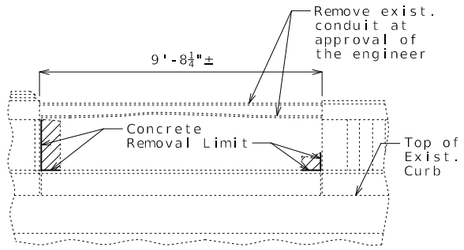
DESCRIPTION	DATE

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

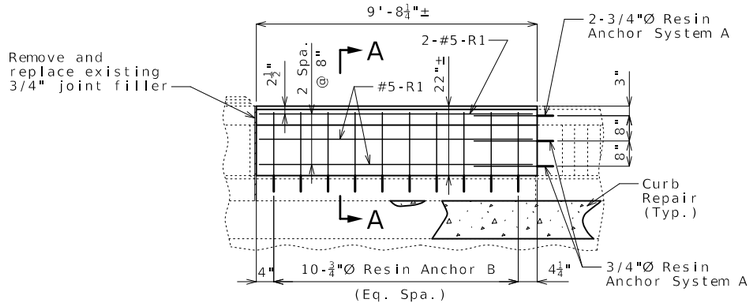
SPECIAL SHEET
CCTV CAMERA MOUNTING TO SIGNAL POST DETAILS

U.I.P. AND REHABILITATE EXISTING (48') SIMPLE COMBINATION CONCRETE DECK GIRDER & WIDE FLANGE BEAM SPAN

SEC/SUR 15 TWP 44N RGE 6E



PART ELEVATION OF BALUSTER RAIL AT SOUTHWEST CORNER OF BRIDGE SHOWING CONCRETE REMOVAL LIMITS

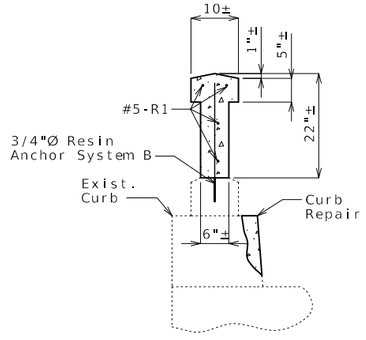


PART ELEVATION OF BALUSTER RAIL AT SOUTHWEST CORNER OF BRIDGE SHOWING NEW BALUSTER RAIL REINFORCEMENT

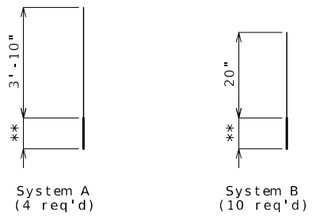
Note:

Horizontal dimensions shown are radial.

Field bend R1 bars and Resin Anchor System A as necessary to conform to baluster rail alignment.



SECTION A-A



System A (4 req'd) System B (10 req'd)

DETAILS OF RESIN ANCHOR SYSTEMS

** Manufacturer's recommended embedment length (5" min.)

Estimated Quantities		
Item		Total
Baluster Repair	each	1

General Notes:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications

Design Unit Stresses:

Class B-1 Concrete f'c = 4,000 psi
Reinforcing Steel (ASTM A615) Grade 60 fy = 60,000 psi

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

Resin Anchors:

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

The minimum embedment depth in concrete with f'c = 4,000 psi for the resin anchor systems shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5".

An epoxy coated #6 Grade 60 reinforcing bar shall be sustituted for the 3/4"Ø threaded rod.

Miscellaneous:

All concrete repairs shall be in accordance with Sec 704, unless otherwise noted.

Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

Bars bonded in existing concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, existing bars shall extend into new concrete at least 40 diameters for plain bars and 30 diameters for deformed bars, unless otherwise noted.

The area exposed by the removal of concrete and not covered with new concrete shall be coated with an approved qualified special mortar in accordance with Sec 704.

Cost of concrete removal will be considered completely covered by the contract unit price for Baluster Repair.

Cost of concrete, reinforcing steel, and furnishing and installing the resin anchor system, complete in place, will be considered completely covered by the contract unit price for Baluster Repair.

Traffic Handling:

Traffic to be maintained on structure during construction. See roadway plans for traffic control.

REPAIRS TO BRIDGE:
GRAVOIS LOOP AND BNSF RR OVER ROUTE 30

ROUTE 30 FROM ROUTE P TO ROUTE 21
ABOUT 0.2 MILE WEST OF ROUTE P
BEGINNING STATION 94+81.25± (Match Existing)

STATE OF MISSOURI
TRENTON B. CRAWFORD
NUMBER PE-2012018053
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 8/6/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
BR	1

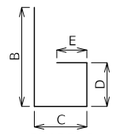
COUNTY ST. LOUIS
JOB NO. JSL0081
CONTRACT ID.
PROJECT NO.
BRIDGE NO. K05871

DESCRIPTION | DATE

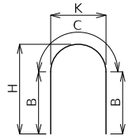
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Detailed July 2025
Checked July 2025

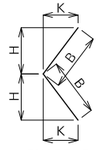
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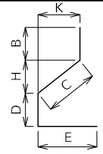
SHAPE 6
or 6S



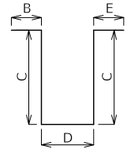
SHAPE 7



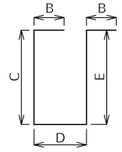
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or 8S



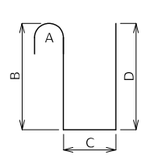
SHAPE 9
or 9S



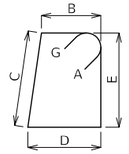
SHAPE 10
or 10S



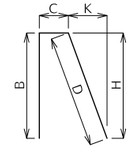
SHAPE 11
or 11S



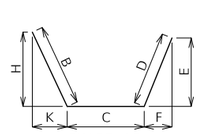
SHAPE 12



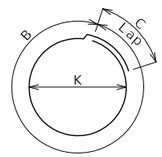
SHAPE 13S



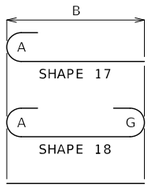
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or 14S



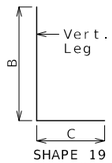
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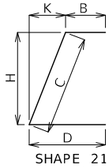
SHAPE 16



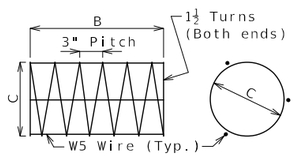
SHAPE 17
SHAPE 18
SHAPE 20



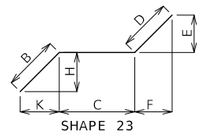
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or 19S



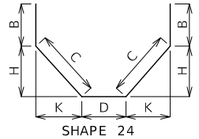
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or 21S



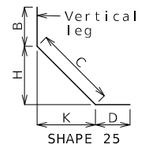
SHAPE 22



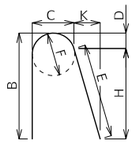
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or 23S



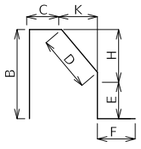
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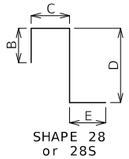
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or 25S



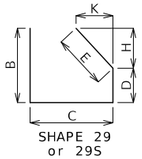
SHAPE 26



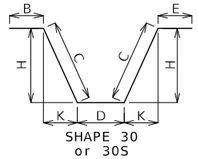
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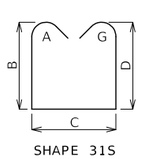
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or 28S



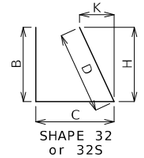
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or 29S



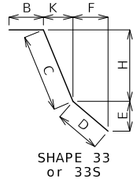
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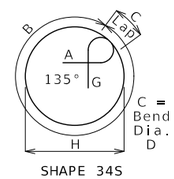
SHAPE 31S



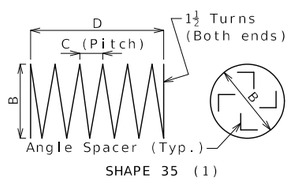
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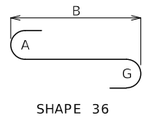
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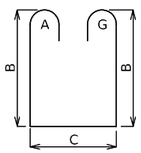
C = Bend Dia. D
SHAPE 34S



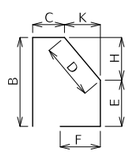
SHAPE 35 (1)



SHAPE 36



SHAPE 37S

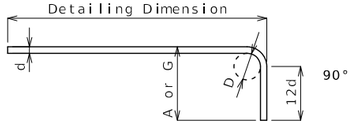


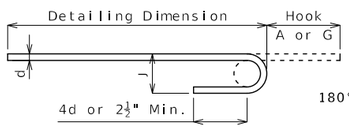
SHAPE 38S

Finished Bend Diameters D and Hook Dimensions

Standard Pin Bend Shapes

Size	Case	D	A or G		J
			90°	180°	180°
#4	1	3"	8"	6"	4"
#5	1	3¾"	10"	7"	5"
#6	1	4½"	12"	8¼"	6"
#7	2	5¼"	14"	9¾"	7"
	3	7"	15"	11½"	8¾"
#8	2	6"	16"	11"	8"
	3	8"	17"	13¼"	10"
#9	1	9½"	19½"	15½"	11¾"
#10	1	10¾"	22"	17½"	13¼"
#11	1	12"	24½"	19½"	14⅞"
#14	1	18¼"	31¼"	27½"	21⅝"
#18	1	24"	41½"	36¼"	28½"



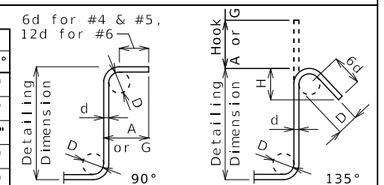


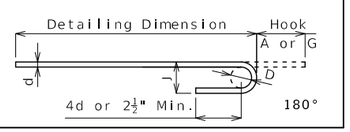
Stirrup Pin Bend Shapes (S)

Size	Case	D	A or G			H	J
			90°	135°	180°	135°	180°
#4	2	2"	4½"	4½"	5"	2⅞"	3"
	3	3"	5"	5¼"	6"	3"	4"
#5	2	2½"	5¾"	5¾"	5¾"	3⅝"	3¾"
	3	3¾"	6¼"	6½"	7"	3⅞"	5"
#6	1	4½"	12"	7¾"	8¼"	4⅝"	6"

Applicable for all grades of steel.

Case 1 applies to all reinforcement. Case 2 applies to all reinforcement except for galvanized bars. Case 3 applies to galvanized bars only.





BENDING DIAGRAMS

Nominal lengths are based on out to out dimensions shown in bending diagrams and are listed to the nearest inch for fabricator's use. Actual lengths are measured along centerline bar to the nearest inch. Weights are based on actual lengths.

All bars shall be Grade 60.

Codes: C = Required coatings, where E = Epoxy Coated and G = Galvanized.

SH = Required shape, see bending diagrams.

V = Sets of varied bars and number of bars of each length. Bar dimensions vary in equal increments between dimensions shown on this line and the following line and the actual length dimension shown on this line and the following line vary by the specified increment.

All dimensions are out to out.

Shapes ending with an S shall be bent in accordance with stirrup pin bend shapes.

Unless otherwise noted, finished bending diameter D is the same for all bends of a shape.

(1) Shall be a deformed or plain spiral bar or wire.

Four angle or channel spacers are required for each column spiral. Spacers are to be placed on inside of spirals. Length and weight of column spirals do not include splices or spacers.

Reinforcing Steel Totals (Pounds)

	Size	Substructure		Superstructure			Entire Bridge	
		Plain	Epoxy	Slab	Barrier	Slip Form	Plain	Epoxy
By Size	W5	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0
	5	0	0	0	39	0	0	39
	6	0	0	0	0	0	0	0
	7	0	0	0	0	0	0	0
By Type		0	0	0	39	0	0	39

All superstructure reinforcing steel shall be epoxy coated unless otherwise specified.

Bill of Reinforcing Steel

No. Req.	Size/ Mark	Location	Codes			Dimensions							Nom. Length	Actual Length	Weight
			C	SH	V	B	C	D	E	F	H	K			
		Baluster Rail				ft in.	ft in.	ft in.	ft in.	ft in.	ft in.	ft in.	ft in.	ft in.	lb
4	5 R1	BALUSTER RAIL	E	20		9 5.00							9 5	9 5	39

BILL OF REINFORCING STEEL

STATE OF MISSOURI
TRENTON B. CRAWFORD
NUMBER PE-2012018053
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/20/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
BR	2

COUNTY ST. LOUIS

JOB NO. JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO. K05871

DESCRIPTION	DATE

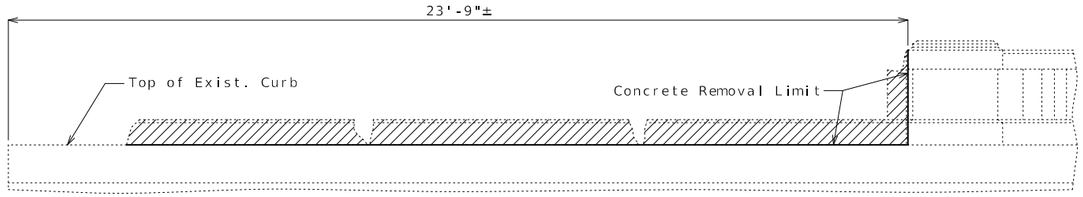
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Detailed July 2025
Checked July 2025

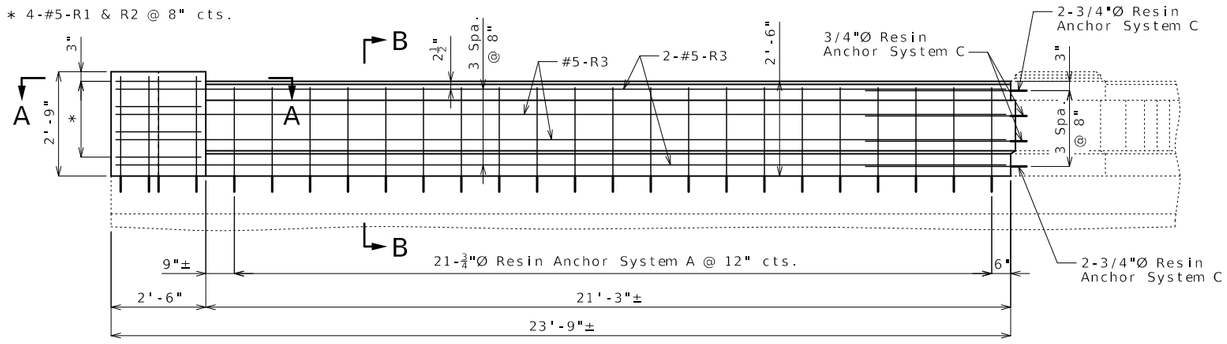
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SEC/SUR 15 TWP 44N RGE 6E

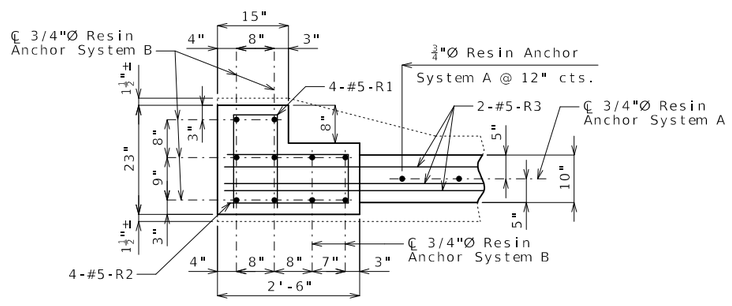
U.I.P. AND REHABILITATE EXISTING (761.5') CAST-IN-PLACE CONCRETE RETAINING WALL "B"



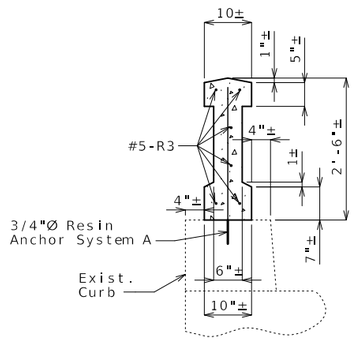
PART ELEVATION OF BALUSTER RAIL AT END OF NORTHEAST RETAINING WALL SHOWING CONCRETE REMOVAL LIMITS



PART ELEVATION OF BALUSTER RAIL AT END OF NORTHEAST RETAINING WALL SHOWING NEW BALUSTER RAIL REINFORCEMENT



PART SECTION A-A



SECTION B-B

Estimated Quantities

Item		Total
Baluster Repair	each	1

General Notes:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications

Design Unit Stresses:

Class B-1 Concrete f'c = 4,000 psi
Reinforcing Steel (ASTM A615) Grade 60 fy = 60,000 psi

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

Resin Anchors:

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

The minimum embedment depth in concrete with f'c = 4,000 psi for the resin anchor systems shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5".

An epoxy coated #6 Grade 60 reinforcing bar shall be sustituted for the 3/4"Ø threaded rod.

Miscellaneous:

All concrete repairs shall be in accordance with Sec 704, unless otherwise noted.

Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

Bars bonded in existing concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, existing bars shall extend into new concrete at least 40 diameters for plain bars and 30 diameters for deformed bars, unless otherwise noted.

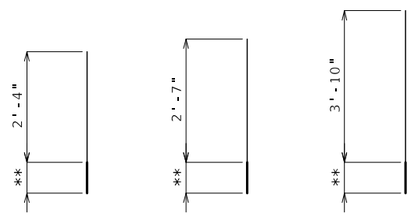
The area exposed by the removal of concrete and not covered with new concrete shall be coated with an approved qualified special mortar in accordance with Sec 704.

Cost of concrete removal will be considered completely covered by the contract unit price for Baluster Repair.

Cost of concrete, reinforcing steel, and furnishing and installing the resin anchor system, complete in place, will be considered completely covered by the contract unit price for Baluster Repair.

Traffic Handling:

Traffic to be maintained on structure during construction. See roadway plans for traffic control.



System A (21 req'd) System B (10 req'd) System C (6 req'd)

DETAILS OF RESIN ANCHOR SYSTEMS

** Manufacturer's recommended embedment length (5" min.)

REPAIRS TO RETAINING WALL: GRAVOIS LOOP AND BNSF RR OVER ROUTE 30

ROUTE 30 FROM ROUTE P TO ROUTE 21
ABOUT 0.2 MILE WEST OF ROUTE P
STATION 103+00.00± (Along ℄ Route 30) (Match Existing)

Detailed July 2025
Checked July 2025

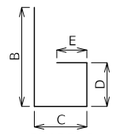
Note: This drawing is not to scale. Follow dimensions.

STATE OF MISSOURI
TRENTON B. CRAWFORD
NUMBER PE-2012018053
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

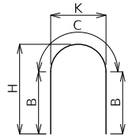
DATE PREPARED 8/6/2025
ROUTE 30 | STATE MO
DISTRICT BR | SHEET NO. 1
COUNTY ST. LOUIS
JOB NO. JSL0081
CONTRACT ID.
PROJECT NO.
BRIDGE NO. K07131

DESCRIPTION | DATE

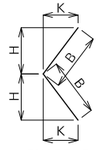
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



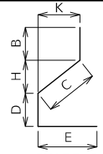
SHAPE 6 or 6S



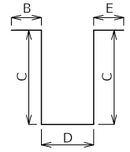
SHAPE 7



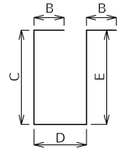
SHAPE 8 or 8S



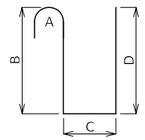
SHAPE 9 or 9S



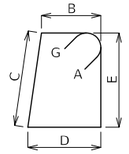
SHAPE 10 or 10S



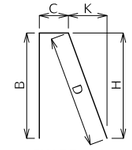
SHAPE 11 or 11S



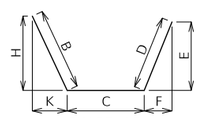
SHAPE 12



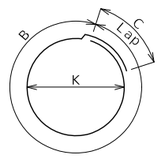
SHAPE 13S



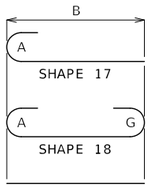
SHAPE 14 or 14S



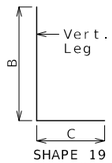
SHAPE 15 or 15S



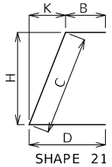
SHAPE 16



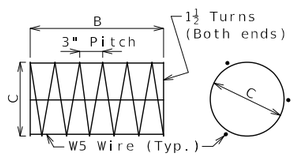
SHAPE 17 SHAPE 18 SHAPE 20



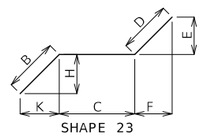
SHAPE 19 or 19S



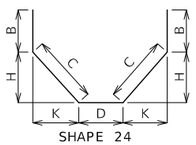
SHAPE 21 or 21S



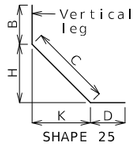
SHAPE 22



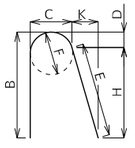
SHAPE 23 or 23S



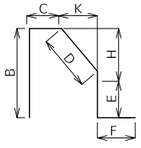
SHAPE 24 or 24S



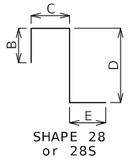
SHAPE 25 or 25S



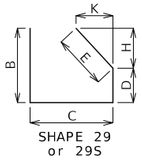
SHAPE 26



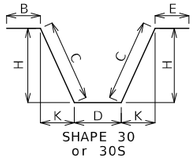
SHAPE 27S



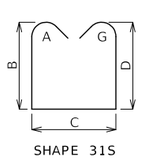
SHAPE 28 or 28S



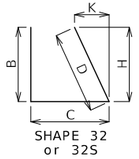
SHAPE 29 or 29S



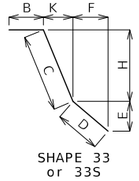
SHAPE 30 or 30S



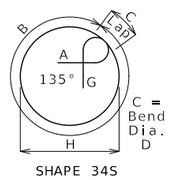
SHAPE 31S



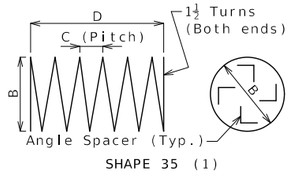
SHAPE 32 or 32S



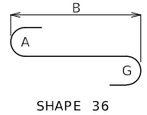
SHAPE 33 or 33S



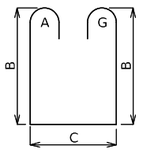
C = Bend Dia. D
SHAPE 34S



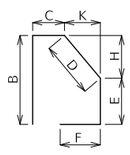
SHAPE 35 (1)



SHAPE 36



SHAPE 37S



SHAPE 38S

All dimensions are out to out.

Shapes ending with an S shall be bent in accordance with stirrup pin bend shapes.

Unless otherwise noted, finished bending diameter D is the same for all bends of a shape.

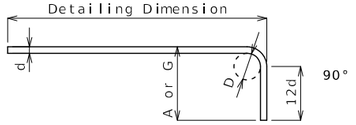
(1) Shall be a deformed or plain spiral bar or wire.

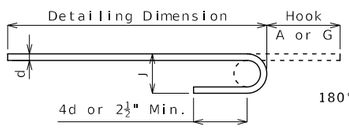
Four angle or channel spacers are required for each column spiral. Spacers are to be placed on inside of spirals. Length and weight of column spirals do not include splices or spacers.

Finished Bend Diameters D and Hook Dimensions

Standard Pin Bend Shapes

Size	Case	D	A or G		J
			90°	180°	180°
#4	1	3"	8"	6"	4"
#5	1	3¾"	10"	7"	5"
#6	1	4½"	12"	8¼"	6"
#7	2	5¼"	14"	9¾"	7"
	3	7"	15"	11½"	8¾"
#8	2	6"	16"	11"	8"
	3	8"	17"	13¼"	10"
#9	1	9½"	19½"	15½"	11¾"
#10	1	10¾"	22"	17½"	13¼"
#11	1	12"	24½"	19½"	14⅞"
#14	1	18¼"	31¼"	27½"	21⅝"
#18	1	24"	41½"	36¼"	28½"



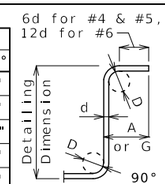


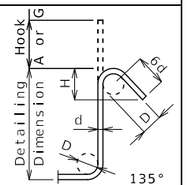
Stirrup Pin Bend Shapes (S)

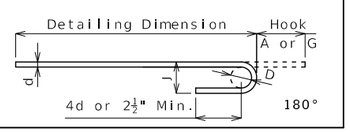
Size	Case	D	A or G		H	J
			90°	135°	180°	135°	180°
#4	2	2"	4½"	4½"	5"	2⅞"	3"
	3	3"	5"	5¼"	6"	3"	4"
#5	2	2½"	5¾"	5¾"	5¾"	3⅝"	3¾"
	3	3¾"	6¼"	6½"	7"	3⅞"	5"
#6	1	4½"	12"	7¾"	8¼"	4⅝"	6"

Applicable for all grades of steel.

Case 1 applies to all reinforcement. Case 2 applies to all reinforcement except for galvanized bars. Case 3 applies to galvanized bars only.







BENDING DIAGRAMS

Nominal lengths are based on out to out dimensions shown in bending diagrams and are listed to the nearest inch for fabricator's use. Actual lengths are measured along centerline bar to the nearest inch. Weights are based on actual lengths.

All bars shall be Grade 60.

Codes: C = Required coatings, where E = Epoxy Coated and G = Galvanized.

SH = Required shape, see bending diagrams.

V = Sets of varied bars and number of bars of each length. Bar dimensions vary in equal increments between dimensions shown on this line and the following line and the actual length dimension shown on this line and the following line vary by the specified increment.

Reinforcing Steel Totals (Pounds)

	Size	Substructure		Superstructure			Entire Bridge	
		Plain	Epoxy	Slab	Barrier	Slip Form	Plain	Epoxy
By Size	W5	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0
	5	0	0	0	183	0	0	183
	6	0	0	0	0	0	0	0
	7	0	0	0	0	0	0	0
By Type		0	0	0	183	0	0	183

All superstructure reinforcing steel shall be epoxy coated unless otherwise specified.

Bill of Reinforcing Steel

No. Req.	Size/ Mark	Location	Codes			Dimensions B	C	D	E	F	H	K	Nom. Length	Actual Length	Weight
			C	SH	V	ft in.	ft in.	ft in.	ft in.	ft in.	ft in.	ft in.	ft in.	ft in.	lb
		Baluster Rail													
4	5 R1	BALUSTER RAIL	E	10S			19.00	10.00					4 0	3 9	16
4	5 R2	BALUSTER RAIL	E	10S			2 1.00	11.00					5 1	4 10	20
6	5 R3	BALUSTER RAIL	E	20		23 6.00							23 6	23 6	147

BILL OF REINFORCING STEEL

Detailed July 2025
Checked July 2025

Note: This drawing is not to scale. Follow dimensions.

STATE OF MISSOURI
TRENTON B. CRAWFORD
NUMBER PE-2012018053
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/20/2025

ROUTE	STATE
30	MO
DISTRICT	SHEET NO.
BR	2

COUNTY ST. LOUIS

JOB NO. JSL0081

CONTRACT ID.

PROJECT NO.

BRIDGE NO. K07131

DESCRIPTION	DATE

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