DESIGN DESIGNATION
ROUTE O

A.A.D.T. - 2024 = 5240
A.A.D.T. - 2044 = 5790
D.H.V = 5%
T = 5%
V = 40/50/55 M.P.H.
D = 50% EB / 50% WB

FUNCTIONAL CLASSIFICATION - MINOR ARTERIAL

DESIGN DESIGNATION
ROUTE F

A.A.D.T. - 2024 = 7416
A.A.D.T. - 2044 = 8193
D.H.V = 12%
T = 7%
V = 35/50/55 M.P.H.
D = 50% NB / 50% SB

FUNCTIONAL CLASSIFICATION - MINOR ARTERIAL

DESIGN DESIGNATION
ROUTE NN

A.A.D.T. - 2024 = 4096
A.A.D.T. - 2044 = 4525
D.H.V = 10%
T = 11%
V = 40/50/55 M.P.H.
D = 51% NB / 49% SB

FUNCTIONAL CLASSIFICATION - MAJOR COLLECTOR

NO RIGHT-OF-WAY ACQUISITION

CONVENTIONAL SYMBOLS
(USED IN PLANS)

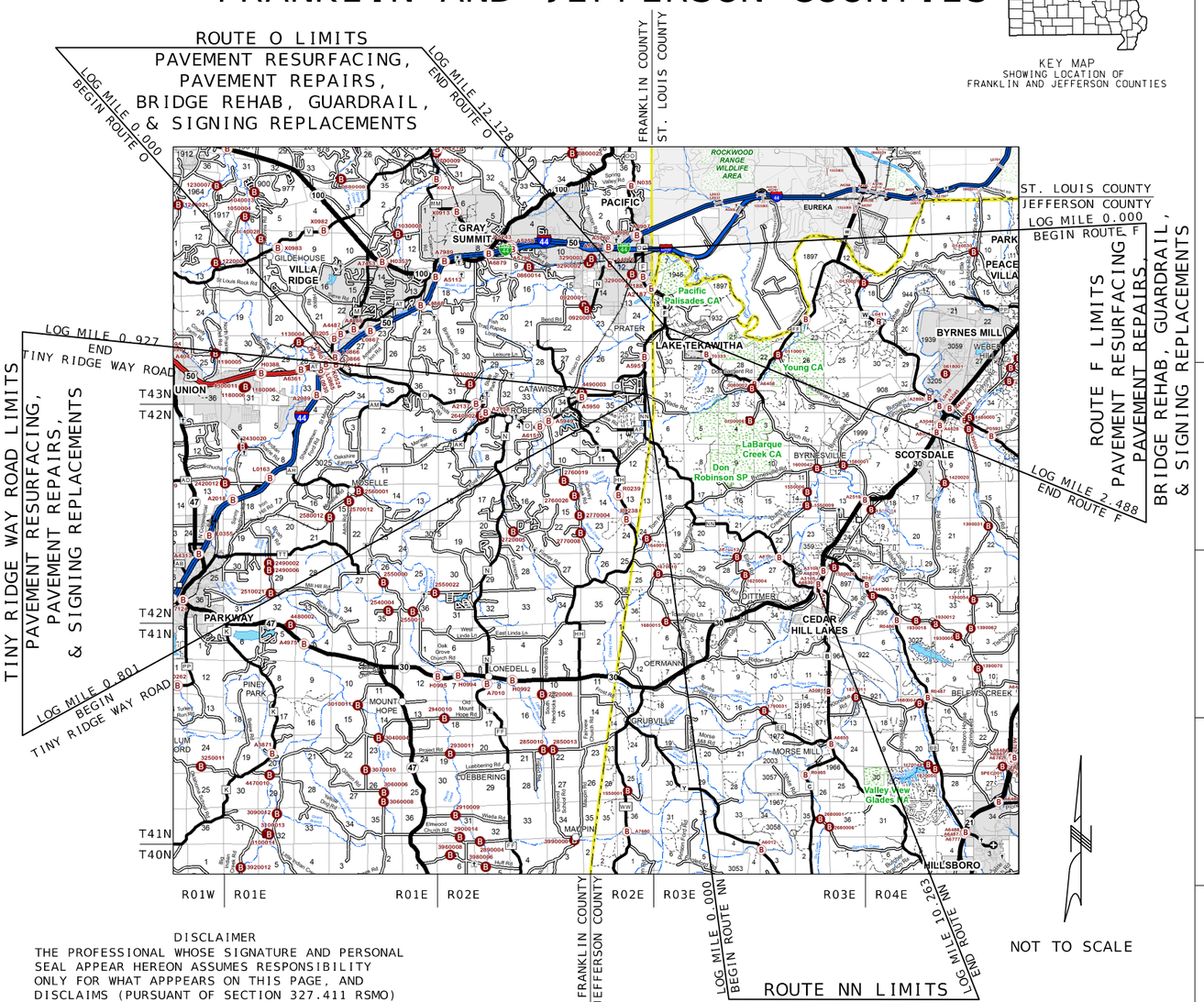
	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	-FO-
OVERHEAD CABLE TV	-OTV-	-OTV-
UNDERGROUND CABLE TV	-UTV-	-UTV-
OVERHEAD TELEPHONE	-OT-	-OT-
UNDERGROUND TELEPHONE	-UT-	-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
FRANKLIN AND JEFFERSON COUNTIES



KEY MAP
SHOWING LOCATION OF
FRANKLIN AND JEFFERSON COUNTIES



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 COMISSION "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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ROUTE F (1 SHEET)	
ROUTE NN (7 SHEETS)	
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BRIDGES (A2187, A2137, A2138, A5950)	1

LENGTH OF PROJECT

ROUTE O:

BEGINNING OF PROJECT	LOG MILE 0.000
END OF PROJECT	LOG MILE 12.128
APPARENT LENGTH	64,035.84 FEET
EQUATIONS AND EXCEPTIONS:	
BRIDGE A2115	286 FEET
BRIDGE A6151	240 FEET
TOTAL CORRECTIONS:	526 FEET
NET LENGTH OF PROJECT	63,509.84 FEET
STATE LENGTH	12.028 MILES

ROUTE F:

BEGINNING OF PROJECT	LOG MILE 0.000
END OF PROJECT	LOG MILE 2.488
APPARENT LENGTH	13,136.64 FEET
EQUATIONS AND EXCEPTIONS:	
BRIDGE A2188	111 FEET
TOTAL CORRECTIONS:	111 FEET
NET LENGTH OF PROJECT	13,025.64 FEET
STATE LENGTH	2.467 MILES

ROUTE NN:

BEGINNING OF PROJECT	LOG MILE 0.000
END OF PROJECT	LOG MILE 10.263
APPARENT LENGTH	54,188.64 FEET
EQUATIONS AND EXCEPTIONS:	
BRIDGE A8284	89 FEET
TOTAL CORRECTIONS:	89 FEET
NET LENGTH OF PROJECT	54,099.64 FEET
STATE LENGTH	10.246 MILES

TINY RIDGE WAY ROAD:

BEGINNING OF PROJECT	LOG MILE 0.801
END OF PROJECT	LOG MILE 0.927
APPARENT LENGTH	665.28 FEET
EQUATIONS AND EXCEPTIONS:	NONE
TOTAL CORRECTIONS:	NONE
NET LENGTH OF PROJECT	665.28 FEET
STATE LENGTH	0.126 MILES

TOTAL CORRECTIONS:	726
NET LENGTH OF PROJECT	131,300.40 FEET
STATE LENGTH	24.867 MILES
FOR INFORMATION ONLY	
ESTIMATED DISTURBED ACRES	0.00 ACRES

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED: 8/8/2024

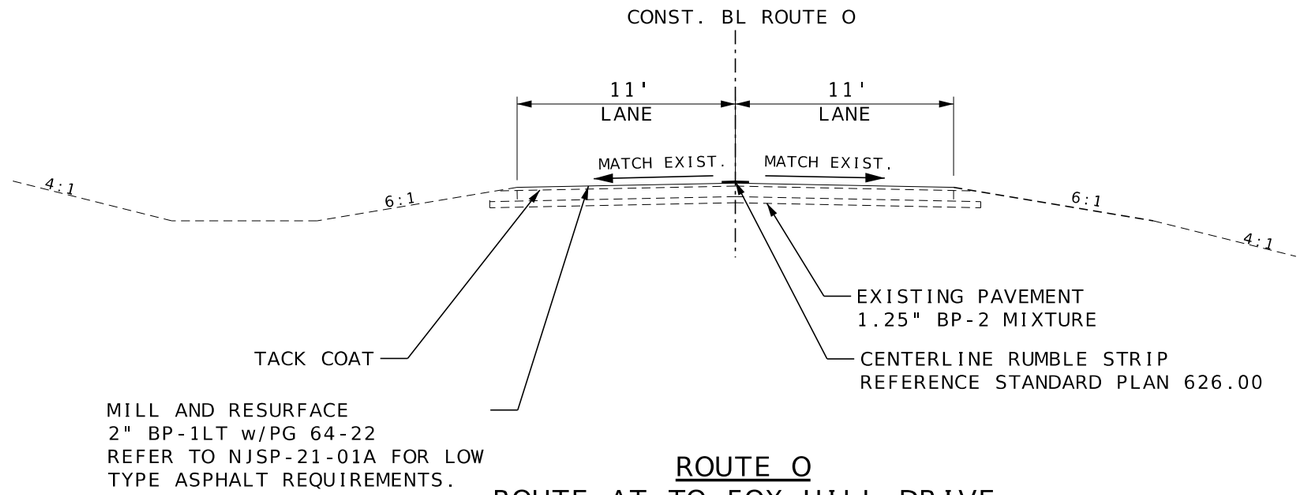
ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	1

COUNTY: FRANK./JEFF.
JOB NO.: JSL0034
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

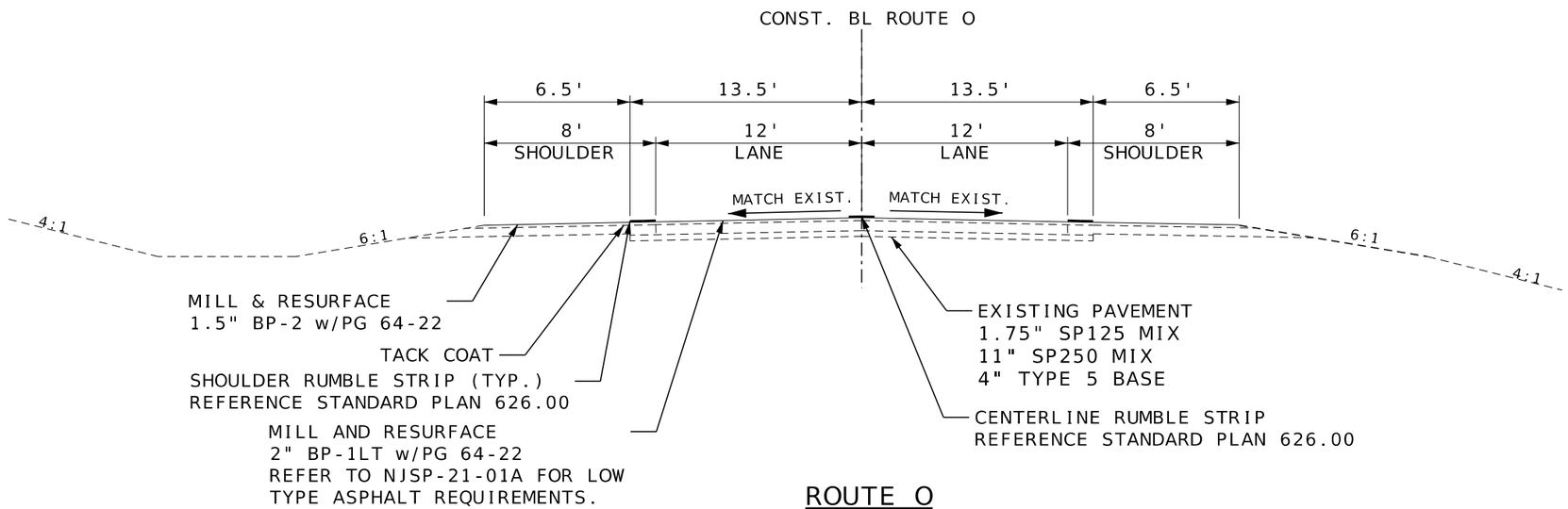
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HORNER & SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 FAX: 314-436-3411 WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024



ROUTE O

ROUTE AT TO FOX HILL DRIVE
LOG MILE 0.000 TO LOG MILE 6.571



ROUTE O

FOX HILL DRIVE TO ROUTE NN
LOG MILE 6.571 TO LOG MILE 10.451
WEST OF PHELAN ROAD TO ROUTE F
LOG MILE 10.723 TO LOG MILE 12.128

PAVEMENT ESTIMATE FACTORS

GRAVEL (A) OR CRUSHED STONE (B) OR CHAT (C)	1.40 TONS/CUYD
TACK COAT ON EXISTING ASPHALT (UNDILUTED)	0.08 GAL/SQYD
TACK COAT ON COLDMILLED ASPHALT (UNDILUTED)	0.10 GAL/SQYD
BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1)	1.96 TONS/CUYD
BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1LT)	1.96 TONS/CUYD
BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-2)	1.96 TONS/CUYD

NOT TO SCALE

TYPICAL SECTIONS
SHEET 1 OF 5

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STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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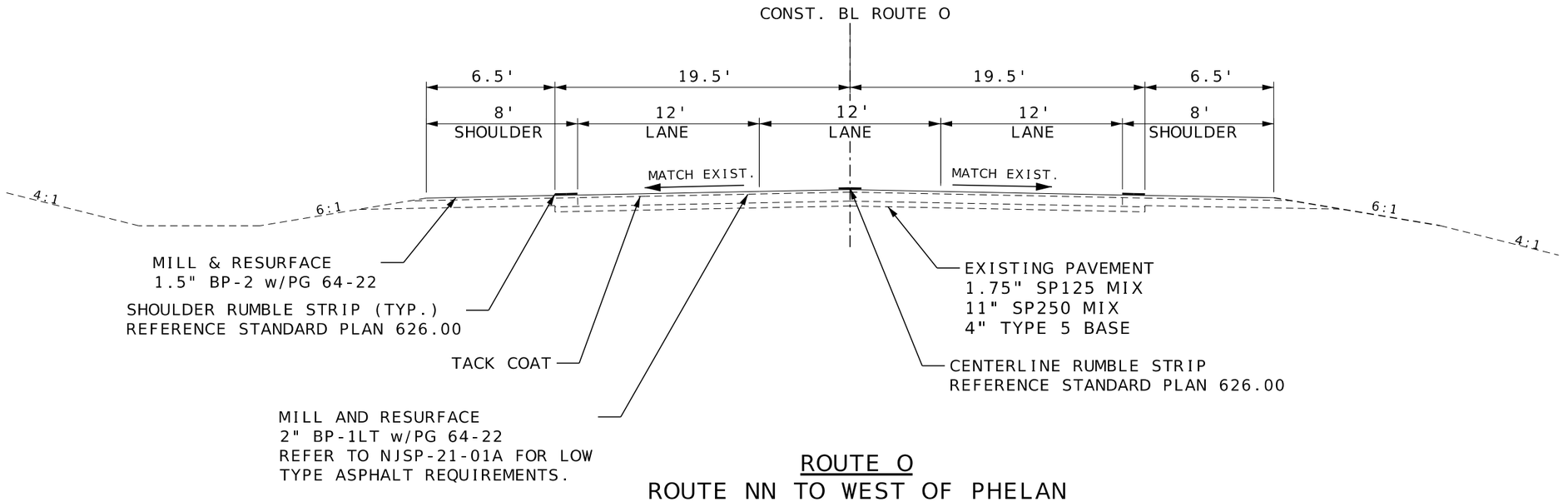
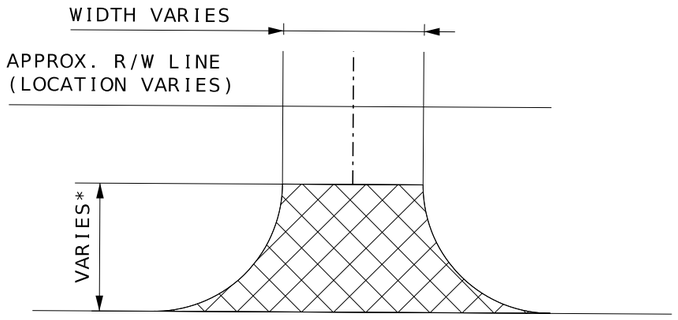


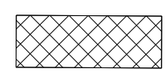
ROUTE O

ROUTE NN TO WEST OF PHELAN
LOG MILE 10.451 TO LOG MILE 10.723



ROUTE O
-SIDE ROADS & ENTRANCES

*END OF RADIUS FOR SIDE ROADS, 4' FOR ENTRANCES, OR AS NOTED ON THE PLANS.



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NOT TO SCALE

TYPICAL SECTIONS
SHEET 2 OF 5

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

CONTRACT ID.

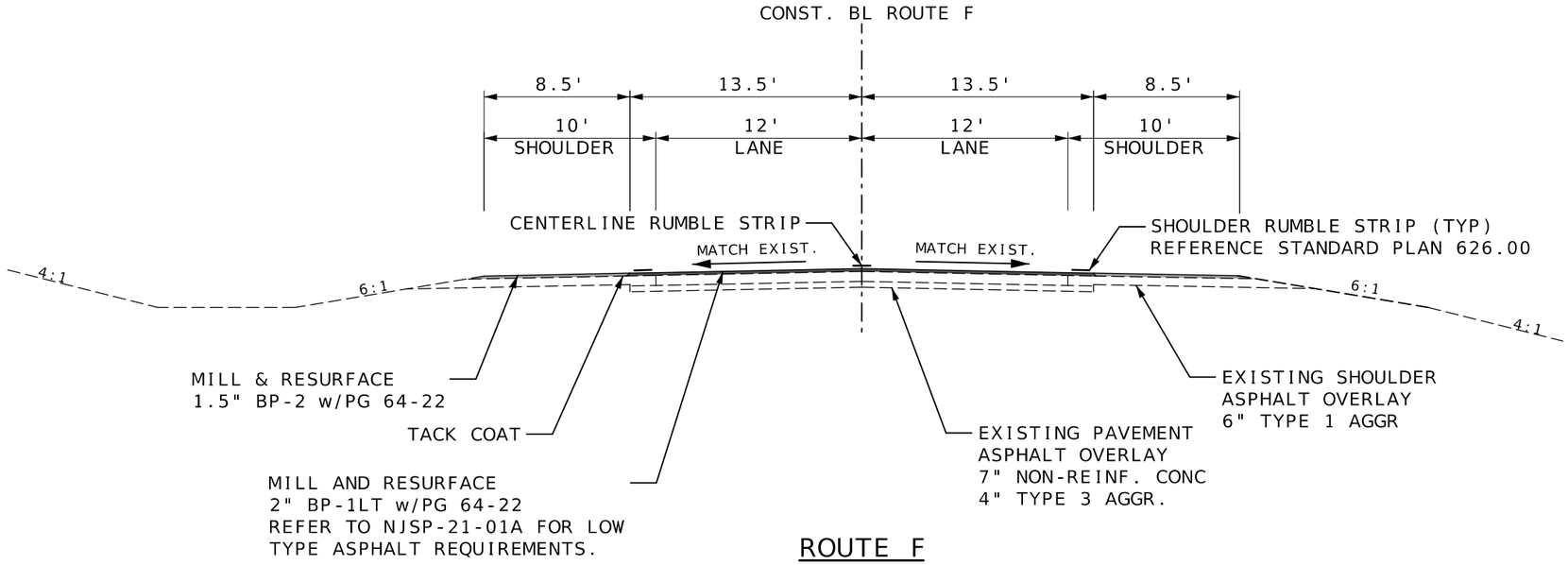
PROJECT NO.

BRIDGE NO.

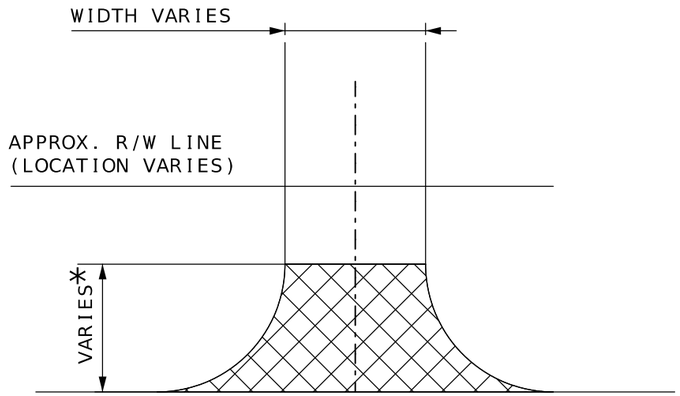
DATE	DESCRIPTION

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

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024



ROUTE F
BUS 44 TO ROUTE O
LOG MILE 0.000 TO LOG MILE 2.487



ROUTE F

*END OF RADIUS FOR SIDE ROADS, 4' FOR ENTRANCES, OR AS NOTED ON THE PLANS.

MILL & RESURFACE

ROUTE F
SIDE ROAD & ENTRANCES

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NOT TO SCALE

ROUTE F
TYPICAL SECTIONS
SHEET 3 OF 5

STATE OF MISSOURI
JOHN A. HOCK
NUMBER E-23292
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

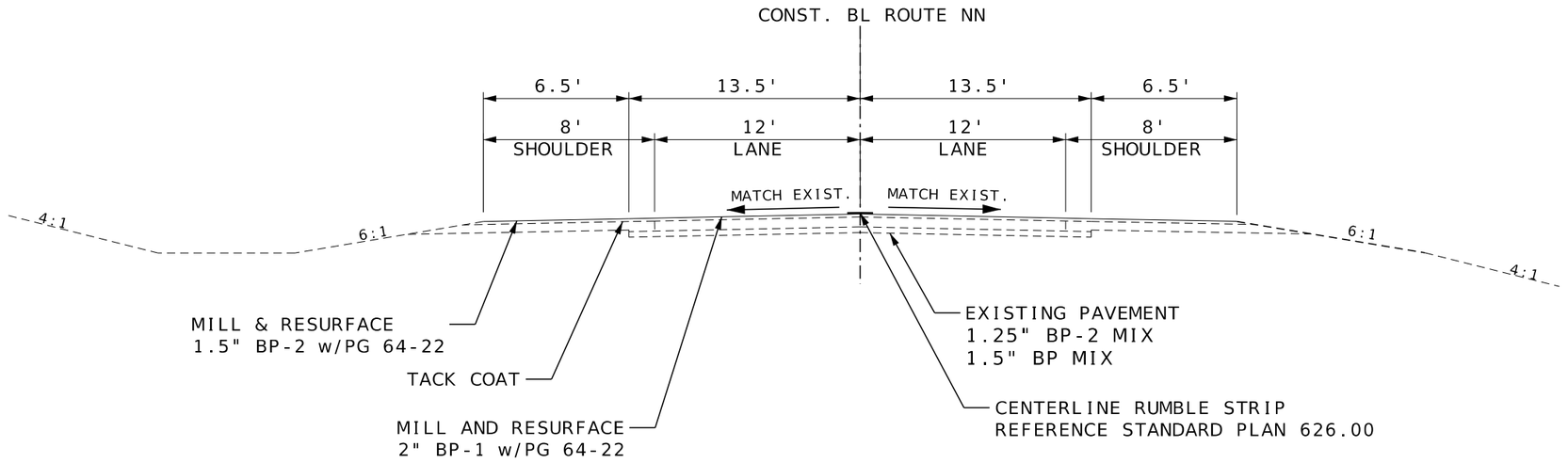
DATE PREPARED 8/2/2024
ROUTE O/F/NN
STATE MO
DISTRICT SL
SHEET NO. 2
COUNTY FRANK/JEFF
JOB NO. JSL0034
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION
DATE

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

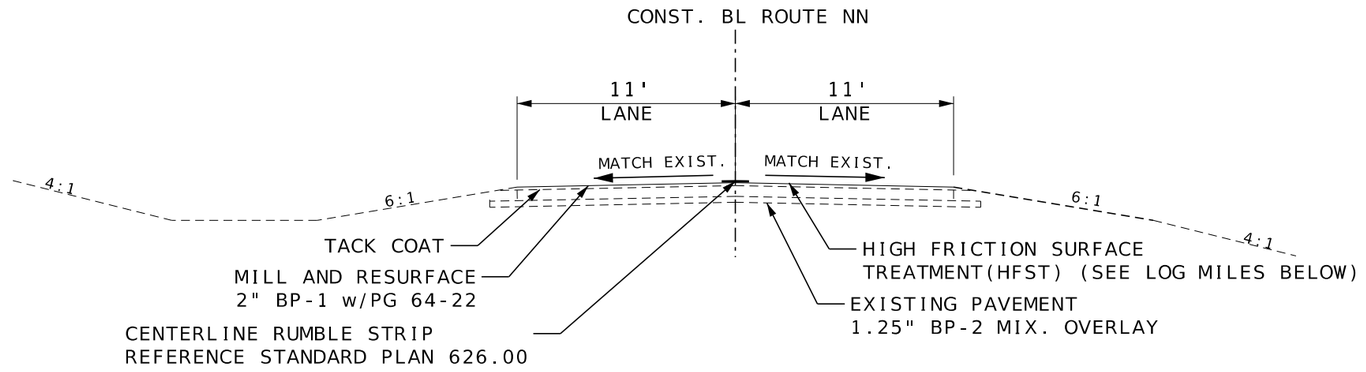
EDSI
ENGINEERING DESIGN SOURCE, INC.
16141 Swingley Ridge Rd., Suite 300
Chesterfield, Missouri 63017
Missouri State Engineering Corporation #001523
T. 636.537.5585
F. 636.537.0275

pw://pw01.hornershifrin.com:HS MoDOT/Documents/2334500-MoDOT-RoutesFONNResurf/_EDSI/01_CADD/01_TS_JSL0034_i1 8:30:03 AM 8/2/2024



ROUTE NN

ROUTE O TO SOUTH OF ROUTE O
LOG MILE 0.000 TO LOG MILE 0.307



ROUTE NN

SOUTH OF ROUTE O TO NORTH OF ROUTE 30
LOG MILE 0.307 TO LOG MILE 10.194

HIGH FRICTION SURFACE TREATMENT (HFST) TYPICAL SECTION

SOUTHBOUND FROM LOG MILES 9.320 TO 9.536, 9.581 TO 9.659, 9.688 TO 9.781
NORTHBOUND FROM LOG MILES 9.336 TO 9.552, 9.604 TO 9.682, TO 9.710 TO 9.797

PAVEMENT ESTIMATE FACTORS

GRAVEL (A) OR CRUSHED STONE (B) OR CHAT (C)	1.40 TONS/CUYD
TACK COAT ON EXISTING ASPHALT (UNDILUTED)	0.08 GAL/SQYD
TACK COAT ON COLDMILLED ASPHALT (UNDILUTED)	0.10 GAL/SQYD
BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1)	1.96 TONS/CUYD
BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1LT)	1.96 TONS/CUYD
BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-2)	1.96 TONS/CUYD

NOT TO SCALE

TYPICAL SECTIONS
SHEET 4 OF 5

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STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
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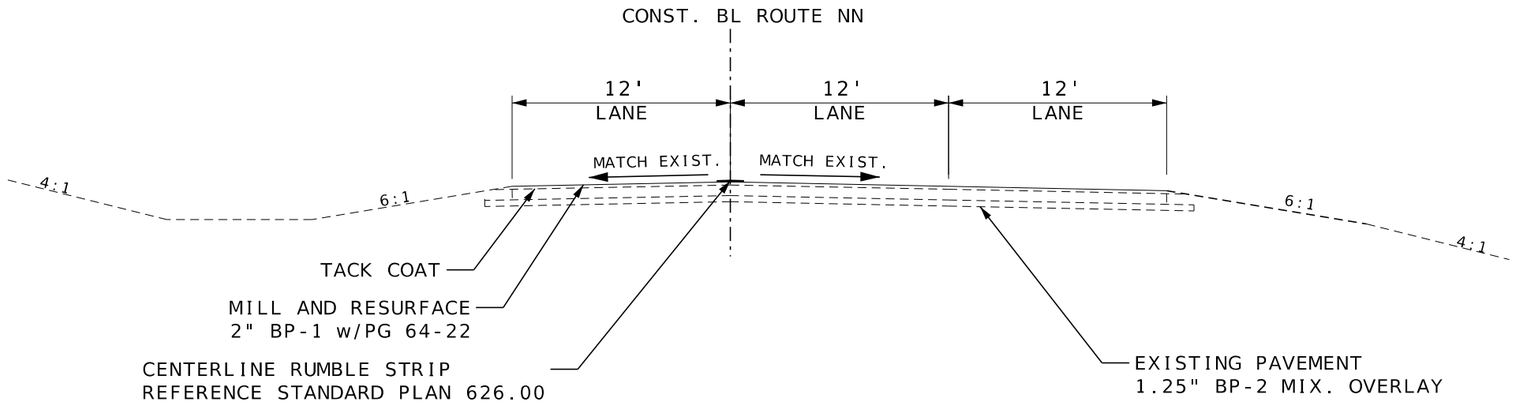
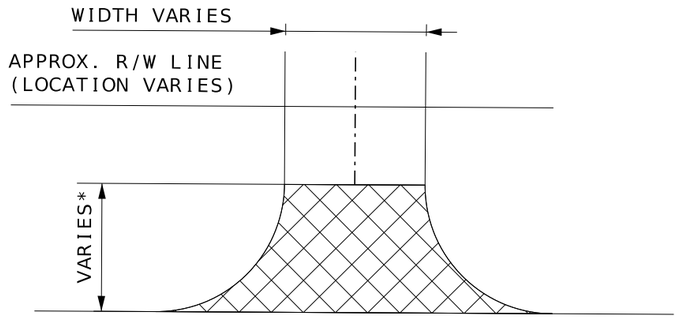
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

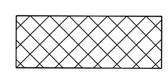


ROUTE NN
NORTH OF ROUTE 30 TO ROUTE 30
LOG MILE 10.194 TO 10.239



ROUTE NN
-SIDE ROADS & ENTRANCES

*END OF RADIUS FOR SIDE ROADS, 4' FOR ENTRANCES, OR AS NOTED ON THE PLANS.



MILL & RESURFACE

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NOT TO SCALE

TYPICAL SECTIONS
SHEET 5 OF 5

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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DIVISION 400 -- FLEXIBLE PAVEMENTS (RTE. O - 1 OF 3)

SHEET	BEGIN LOG MILE	END LOG MILE	ROADWAY	LOCATION	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1LT)	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-2)	TACK COAT - NON-TRACKING	COLD MILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS)	GRAVEL (A) OR CRUSHED STONE (B) OR CHAT (C)	NOTES
					TONS	TONS	GAL.	SQ. YD.	TONS	
MAINLINE RESURFACING										
4	0.0	0.5	ROUTE O	RT & LT	639.2	44.6	641.7	6,416.9	279.6	SEE PLAN SHEET 4
5	0.5	1.0	ROUTE O	RT & LT	702.7		645.3	6,453.3		
6	1.0	1.5	ROUTE O	RT & LT	702.7		645.3	6,453.3		
7	1.5	2.0	ROUTE O	RT & LT	702.7		645.3	6,453.3		
8	2.0	2.5	ROUTE O	RT & LT	702.7		645.3	6,453.3		
9	2.5	3.0	ROUTE O	RT & LT	702.7		645.3	6,453.3		
10	3.0	3.5	ROUTE O	RT & LT	702.7		645.3	6,453.3		
11	3.5	4.0	ROUTE O	RT & LT	702.7		645.3	6,453.3		
12	4.0	4.5	ROUTE O	RT & LT	702.7		645.3	6,453.3		
13	4.5	5.0	ROUTE O	RT & LT	522.8	37.1	525.6	5,255.5		
14	5.0	5.5	ROUTE O	RT & LT	652.1	23.7	627.9	6,278.9		
15	5.5	6.0	ROUTE O	RT & LT	702.7		645.3	6,453.3		
16	6.0	6.5	ROUTE O	RT & LT	702.7		645.3	6,453.3		
17	6.5	7.0	ROUTE O	RT & LT	739.9	253.6	990.1	9,901.1		
18	7.0	7.5	ROUTE O	RT & LT	862.4	361.5	1,234.7	12,347.0		
19	7.5	8.0	ROUTE O	RT & LT	882.8	311.4	1,192.1	11,921.1		
20	8.0	8.5	ROUTE O	RT & LT	750.3	260.9	1,008.5	10,085.2		
21	8.5	9.0	ROUTE O	RT & LT	862.4	311.4	1,173.3	11,733.3		
22	9.0	9.5	ROUTE O	RT & LT	862.4	301.6	1,161.3	11,613.4		
23	9.5	10.0	ROUTE O	RT & LT	862.4	311.4	1,173.3	11,733.3		
24	10.0	10.5	ROUTE O	RT & LT	900.0	301.5	1,195.7	11,957.2		
25	10.5	11.0	ROUTE O	RT & LT	1,033.3	305.2	1,322.7	13,227.0		
26	11.0	11.5	ROUTE O	RT & LT	862.4	301.8	1,161.5	11,615.1		
27	11.5	12.0	ROUTE O	RT & LT	862.4	299.6	1,158.8	11,588.4		
28	12.0	12.128	ROUTE O	RT & LT	220.8	311.4	584.1	5,840.9		
RTE. O - MAINLINE SUBTOTAL					18,542.6	3,736.9	21,604.8	216,047.8	279.6	
SIDE ROADS & ENTRANCES										
4	0.265		ROUTE O	RT	4.4		4.0	40.3		RIVER ACCESS
4	0.422		ROUTE O	LT		6.5	14.0	140.3		P.E.
5	0.520		ROUTE O	LT	5.0		3.7	0.00		P.E.
5	0.520		ROUTE O	RT	4.8		3.5	0.00		C.E.
5	0.626		ROUTE O	LT	10.8		9.9	99.3		ARBORVIEW DR
5	0.626		ROUTE O	RT	0.8		0.8	7.7		P.E.
5	0.895		ROUTE O	RT	35.2		32.3	323.1		OLD HWY O
5	0.927		ROUTE O	RT	1.2		0.9	0.00		P.E.
5	0.943		ROUTE O	LT	1.1		1.0	10.5		P.E.
5	0.981		ROUTE O	LT	2.0		1.9	18.8		P.E.
6	1.041		ROUTE O	RT	4.2		3.1	0.00		P.E.
6	1.167		ROUTE O	RT	2.0		1.5	0.00		P.E.
6	1.212		ROUTE O	LT	1.3		0.9	0.00		P.E.
6	1.255		ROUTE O	LT	1.4		1.0	0.00		P.E.
6	1.260		ROUTE O	RT	1.1		0.8	0.00		P.E.
6	1.346		ROUTE O	RT	29.3		26.9	269.3		C.E.
6	1.359		ROUTE O	LT	22.8		20.9	209.2		C.E.
6	1.479		ROUTE O	LT	6.3		5.7	57.4		AMERICAN INN RD
6	1.499		ROUTE O	LT	0.9		0.6	0.00		P.E.
7	1.524		ROUTE O	LT	1.3		1.0	0.00		P.E.
7	1.546		ROUTE O	RT	1.0		1.0	9.5		MAPLE BEACH RD
7	1.700		ROUTE O	LT	0.9		0.6	0.00		P.E.
7	1.734		ROUTE O	RT	1.7		1.6	16.0		P.E.
7	1.840		ROUTE O	RT	0.9		0.6	0.00		P.E.
7	1.876		ROUTE O	RT	0.9		0.8	7.8		P.E.
7	1.974		ROUTE O	LT	1.2		0.9	0.00		P.E.
8	2.126		ROUTE O	LT	1.3		1.0	0.00		P.E.
8	2.242		ROUTE O	LT	1.1		1.0	10.4		P.E.
8	2.258		ROUTE O	LT	1.3		1.0	0.00		P.E.
9	2.635		ROUTE O	LT	50.7		46.6	466.1		ST. MARY'S RD
9	2.653		ROUTE O	RT	20.7		19.0	189.9		ROUTE AM
9	2.673		ROUTE O	LT	1.9		1.4	0.00		P.E.
9	2.691		ROUTE O	RT	13.3		12.2	121.9		ROUTE AM
9	2.698		ROUTE O	LT	2.0		1.5	0.00		P.E.
9	2.740		ROUTE O	LT	1.2		0.9	0.00		P.E.
9	2.822		ROUTE O	LT	1.7		1.3	0.00		P.E.
9	2.838		ROUTE O	RT	3.2		2.3	0.00		P.E.
9	2.844		ROUTE O	LT	1.2		0.9	0.00		P.E.
9	2.880		ROUTE O	LT	1.2		0.9	0.00		P.E.
9	2.918		ROUTE O	LT	9.8		7.2	0.00		P.E.
9	2.966		ROUTE O	RT	9.4		8.6	86.0		WOODS DR
10	3.144		ROUTE O	LT	2.4		1.8	0.00		P.E.
10	3.153		ROUTE O	LT	1.6		1.2	0.00		P.E.
10	3.274		ROUTE O	LT	1.1		0.8	0.00		P.E.
10	3.295		ROUTE O	RT	1.4		1.0	0.00		P.E.
10	3.297		ROUTE O	LT	1.0		0.8	0.00		P.E.
10	3.328		ROUTE O	LT	10.3		7.5	0.00		P.E.
10	3.362		ROUTE O	RT	3.0		2.2	0.00		P.E.
10	3.468		ROUTE O	LT	1.5		1.4	14.2		P.E.
RTE. O - SIDE ROADS & ENTRANCES SUBTOTAL 1					284.7	6.5	262.3	2,097.5	0.0	

DIVISION 400 -- FLEXIBLE PAVEMENTS (RTE. O - 2 OF 3)

SHEET	BEGIN LOG MILE	END LOG MILE	ROADWAY	LOCATION	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1LT)	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-2)	TACK COAT - NON-TRACKING	COLD MILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS)	GRAVEL (A) OR CRUSHED STONE (B) OR CHAT (C)	NOTES
10	3.472		ROUTE O	RT	0.9		0.8	8.5		P.E.
11	3.540		ROUTE O	RT	1.1		1.0	10.4		P.E.
11	3.588		ROUTE O	LT	2.2		1.6	0.00		P.E.
11	3.714		ROUTE O	LT	6.3		4.7	0.00		P.E.
11	3.799		ROUTE O	RT	1.3		0.9	0.00		F.E.
12	4.077		ROUTE O	LT	6.6		4.8	0.00		P.E.
12	4.181		ROUTE O	LT	1.4		1.1	0.00		BRUNETTI LN
12	4.209		ROUTE O	LT	1.1		0.8	0.00		P.E.
12	4.388		ROUTE O	RT	1.9		1.4	0.00		F.E.
12	4.407		ROUTE O	LT	20.5		18.8	188.3		ROBERTSVILLE RD
13	4.580		ROUTE O	LT	6.4		4.7	0.00		F.E.
13	4.693		ROUTE O	RT	10.9		10.0	100.2		WOODS DR
13	4.940		ROUTE O	LT	24.6		22.6	225.7		MONTGOMERY RD
14	5.013		ROUTE O	RT	15.3		14.1	140.7		CIRCLE DR
14	5.236		ROUTE O	LT	1.7		1.6	15.7		P.E.
14	5.241		ROUTE O	RT	16.2		14.8	148.4		ROUTE AK
14	5.431		ROUTE O	RT	13.5		12.4	123.7		HIGH MEADOWS DR
14	5.480		ROUTE O	LT	15.2		13.9	139.4		ADLER LN
15	5.515		ROUTE O	RT	1.7		1.3	0.00		P.E.
15	5.515		ROUTE O	LT	2.2		1.6	0.00		P.E.
15	5.530		ROUTE O	LT	1.7		1.2	0.00		P.E.
15	5.575		ROUTE O	LT	1.1		0.8	0.00		P.E.
15	5.616		ROUTE O	LT	6.5		5.9	59.2		P.E.
15	5.643		ROUTE O	LT	1.0		0.9	8.9		P.E.
15	5.650		ROUTE O	RT	16.9		15.5	154.9		P.E.
15	5.681		ROUTE O	RT	4.9		4.5	45.1		C.E.
15	5.717		ROUTE O	RT	4.6		4.3	42.7		C.E.
15	5.741		ROUTE O	RT	4.3		4.0	39.9		C.E.
15	5.755		ROUTE O	LT	1.1		0.8	0.00		P.E.
15	5.767		ROUTE O	RT	6.3		5.8	58.2		C.E.
15	5.794		ROUTE O	LT	1.7		1.3	0.00		P.E.
15	5.807		ROUTE O	RT	3.8		3.5	34.9		S MONTGOMERY RD
15	5.820		ROUTE O	LT	13.1		12.0	120.4		P.E.
15	5.834		ROUTE O	RT	16.5		12.1			P.E.
15	5.891		ROUTE O	LT	1.1		0.8	0.00		P.E.
15	5.907		ROUTE O	RT	6.0		4.4	0.00		P.E.
15	5.931		ROUTE O	RT	0.9		0.6	0.00		P.E.
15	5.960		ROUTE O	RT	3.9		3.6	36.1		ADAMS ST
16	6.003		ROUTE O	RT	1.1		0.8	0.00		P.E.
16	6.039		ROUTE O	RT	4.9		4.5	45.4		JEFFERSON ST
16	6.065		ROUTE O	RT	1.5		1.4	13.6		P.E.
16	6.085		ROUTE O	LT	5.3		3.9	0.00		JOHNSON LN
16	6.181		ROUTE O	RT	2.5		1.8	0.00		P.E.
16	6.211		ROUTE O	LT	4.3		3.2	0.00		C.E.
16	6.409		ROUTE O	RT	1.0		0.8	0.00		F.E.
17	6.603		ROUTE O	RT		2.2	4.7	47.2		FOX HILL DRIVE
17	6.627		ROUTE O	RT		1.5	3.2	32.0		P.E.
17	6.670		ROUTE O	RT		1.6	3.4	33.5		P.E.
17	6.729		ROUTE O	LT		1.4	3.1	30.8		F.E.
17	6.748		ROUTE O	RT	14.9		13.7	136.8		SHANNON LN
17	6.930		ROUTE O	LT		1.2	2.6	26.3		F.E.
17	6.990		ROUTE O	LT		1.3	2.7	27.0		F.E.
18	7.040		ROUTE O	LT		2.1	4.4	44.1		P.E.
18	7.057		ROUTE O	RT		1.4	3.0	30.5		F.E.
18	7.061		ROUTE O	LT		1.3	2.8	28.3		P.E.
18	7.125		ROUTE O	RT	21.8		20.0	200.0		CALVEY CREEK RD
18	7.243		ROUTE O	LT	23.4		21.5	215.3		WILD PLUM VALLEY
18	7.391		ROUTE O	LT		2.3	4.9	48.9		P.E.
18	7.405		ROUTE O	RT		2.7	5.7	57.0		P.E.
19	7.742		ROUTE O	RT		2.3	4.9	48.9		P.E.
19	7.742		ROUTE O	LT		2.4	5.1	51.3		P.E.
19	7.814		ROUTE O	RT		2.4	5.1	51.4		C.E.
19	7.814		ROUTE O	LT		2.7	5.8	58.3		C.E.
20	8.187		ROUTE O	LT		1.4	3.0	30.1		P.E.
20	8.223		ROUTE O	LT		1.4	3.0	29.9		P.E.
20	8.414		ROUTE O	LT	27.8		25.6	255.6		WILD PLUM VALLEY
20	8.485		ROUTE O	RT		1.9	4.0	40.1		P.E.
21	8.507		ROUTE O	LT		1.4	2.9	29.2		P.E.
21	8.641		ROUTE O	RT		1.4	2.9	29.0		P.E.
21	8.682		ROUTE O	LT		1.8	3.9	39.2		P.E.
21	8.739		ROUTE O	LT		1.1	2.5	24.5		P.E.
21	8.747		ROUTE O	RT		2.1	4.5	45.0		HARMON HILL LN
21	8.840		ROUTE O	LT		1.2	2.5	24.9		P.E.
21	8.974		ROUTE O	LT		1.1	2.3	22.8		P.E.
22	9.066		ROUTE O	LT		1.1	2.3	22.8		P.E.
22	9.102		ROUTE O	RT		2.1	4.5	44.7		P.E.
22	9.134		ROUTE O	LT		1.1	2.3	22.8		P.E.
RTE. O - SIDE ROADS & ENTRANCES SUBTOTAL 2					355.0	47.6	414.2	3,589.0	0.0	

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ROUTE O
SUMMARY OF QUANTITIES
SHEET 1 OF 13

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED: 8/8/2024
ROUTE: O/F/NN | STATE: MO
DISTRICT: SL | SHEET NO. 3
COUNTY: FRANK./JEFF.
JOB NO. JSL0034
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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

DIVISION 400 -- FLEXIBLE PAVEMENTS (RTE. O - 3 OF 3)										
SHEET	BEGIN LOG MILE	END LOG MILE	ROADWAY	LOCATION	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1LT)	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-2)	TACK COAT - NON-TRACKING	COLD MILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS)	GRAVEL (A) OR CRUSHED STONE (B) OR CHAT (C)	NOTES
22	9.229		ROUTE O	RT	137.4		126.2	1,261.9		TINY RIDGE WAY
23	9.504		ROUTE O	RT		2.6	5.6	55.6		P.E.
23	9.505		ROUTE O	LT		1.2	2.0	0.00		F.E.
24	10.064		ROUTE O	LT		1.2	2.5	24.9		P.E.
24	10.345		ROUTE O	LT		1.2	2.5	24.9		P.E.
24	10.395		ROUTE O	RT		1.2	2.5	24.9		P.E.
25	10.569		ROUTE O	RT		1.3	2.8	27.7		F.E.
25	10.580		ROUTE O	LT		1.3	2.7	27.4		P.E.
25	10.663		ROUTE O	RT		1.3	2.7	26.8		P.E.
25	10.734		ROUTE O	RT		1.5	3.1	31.1		P.E.
25	10.833		ROUTE O	LT		6.8	14.5	144.7		PHELAN RD
25	10.990		ROUTE O	LT		10.9	23.4	234.3		P.E.
26	11.028		ROUTE O	RT		1.3	2.8	28.0		P.E.
26	11.093		ROUTE O	RT		1.2	2.5	24.9		P.E.
26	11.202		ROUTE O	RT		1.3	2.7	27.4		P.E.
26	11.223		ROUTE O	LT		8.4	18.0	179.6		NORTHWOODS DR
26	11.225		ROUTE O	RT		1.2	2.7	26.6		P.E.
26	11.384		ROUTE O	LT	32.1		29.5	295.2		PHELAN FARM RD
26	11.386		ROUTE O	RT	35.7		32.7	327.4		WINDY VALLEY LN
27	11.659		ROUTE O	LT	23.6		21.7	217.2		CAMP SOLIDARITY
27	11.778		ROUTE O	RT		1.1	2.3	23.3		P.E.
27	11.850		ROUTE O	LT		0.9	1.9	19.4		P.E.
27	11.923		ROUTE O	RT	47.3		43.4	434.4		MANGAN RD
28	12.018		ROUTE O	RT		1.6	3.4	33.5		P.E.
28	12.027		ROUTE O	LT		2.2	4.8	47.8		C.E.
28	12.054		ROUTE O	LT		2.1	4.5	45.3		C.E.
28	12.078		ROUTE O	LT		2.0	4.2	42.1		C.E.
RTE. O - SIDE ROADS & ENTRANCES SUBTOTAL 3					276.1	53.4	367.6	3,656.4	0.0	
SURFACE IRREGULARITIES										
					1,390.7	280.3	1,620.4	8,641.9	0.0	
RTE. O - SURFACE IRREGULARITIES SUBTOTAL					1,390.7	280.3	1,620.4	8,641.9	0.0	
RTE. O - MAINLINE SUBTOTAL					18,542.6	3,736.9	21,604.8	216,047.8	279.6	
RTE. O - SIDE ROADS & ENTRANCES SUBTOTAL 1					284.7	6.5	262.3	2,097.5	0.0	
RTE. O - SIDE ROADS & ENTRANCES SUBTOTAL 2					355.0	47.6	414.2	3,589.0	0.0	
RTE. O - SIDE ROADS & ENTRANCES SUBTOTAL 3					276.1	53.4	367.6	3,656.4	0.0	
RTE. O - SURFACE IRREGULARITIES SUBTOTAL					1,390.7	280.3	1,620.4	8,641.9	0.0	
RTE. O - SUBTOTAL					20,849.2	4,124.8	24,269.4	234,032.6	279.6	
RTE. O - FINAL SUBTOTAL					20,849.2	4,124.8	24,269	234,033	280	
RTE. F - FINAL SUBTOTAL					3,179.4	1,581.2	4,900	46,739	0	
RTE. NN - FINAL SUBTOTAL					0.0	257.3	15,485	150,031	0	
TOTALS					24,028.6	5,963.3	44,655	430,803	280	

REMOVAL OF IMPROVEMENTS - GUARDRAIL (RTE. O - 1 OF 4)							
SHEET	BEGIN LOG MILE	END LOG MILE	ROADWAY	LOCATION	DESCRIPTION	QUANTITY	UNITS
4	0.097	0.191	ROUTE O	LT	GUARDRAIL	475.0	LF
4	0.108	0.167	ROUTE O	RT	GUARDRAIL	275.0	LF
4	0.307	0.338	ROUTE O	LT	GUARDRAIL	75.0	LF
4	0.305	0.342	ROUTE O	RT	GUARDRAIL	75.0	LF
4	0.394	0.400	ROUTE O	LT	GUARDRAIL	0.0	LF
4	0.400	0.424	ROUTE O	RT	GUARDRAIL	75.0	LF
13	4.693	4.721	ROUTE O	LT	GUARDRAIL	75.0	LF
13	4.702	4.723	ROUTE O	RT	GUARDRAIL	112.5	LF
13	4.842	4.866	ROUTE O	LT	GUARDRAIL	75.0	LF
13	4.846	4.869	ROUTE O	RT	GUARDRAIL	75.0	LF
14	5.097	5.140	ROUTE O	LT	GUARDRAIL	75.0	LF
14	5.106	5.138	ROUTE O	RT	GUARDRAIL	75.0	LF
14	5.166	5.211	ROUTE O	LT	GUARDRAIL	225.0	LF
14	5.165	5.203	ROUTE O	RT	GUARDRAIL	200.0	LF
17	6.765	6.815	ROUTE O	LT	GUARDRAIL	262.5	LF
17	6.760	6.812	ROUTE O	RT	GUARDRAIL	275.0	LF
17	6.863	6.923	ROUTE O	LT	GUARDRAIL	312.5	LF
17	6.860	6.890	ROUTE O	RT	GUARDRAIL	162.5	LF
18	7.101	7.121	ROUTE O	RT	GUARDRAIL	175.0	LF
18	7.111	7.214	ROUTE O	LT	GUARDRAIL	550.0	LF
18	7.126	7.229	ROUTE O	RT	GUARDRAIL	600.0	LF
20	8.284	8.321	ROUTE O	LT	GUARDRAIL	75.0	LF
20	8.266	8.327	ROUTE O	RT	GUARDRAIL	325.0	LF
20	8.361	8.408	ROUTE O	LT	GUARDRAIL	75.0	LF
20	8.368	8.422	ROUTE O	RT	GUARDRAIL	275.0	LF
23	9.891	10.000	ROUTE O	LT	GUARDRAIL	577.5	LF
24	10.000	10.033	ROUTE O	LT	GUARDRAIL	172.5	LF

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ROUTE O
SUMMARY OF QUANTITIES
SHEET 2 OF 13

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4021 FAX: 314-436-2866 WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

DIVISION 600 -- INCIDENTAL CONSTRUCTION (RTE. O)

SHEET	BEGIN LOG MILE	END LOG MILE	ROADWAY	LOCATION	MGS GUARDRAIL	MGS BRIDGE APPROACH TRANSITION SECTION (REGULAR/NO CURB)	CONCRETE CURB UNDER GUARDRAIL	MGS HEIGHT AND BLOCK TRANSITION	TYPE A CRASHWORTHY END TERMINAL (MASH)	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 6 IN. WHITE	PREFORMED THERMOPLASTIC PAVEMENT MARKING LEFT/RIGHT ARROW	PREFORMED THERMOPLASTIC PAVEMENT MARKING, R/R CROSSING MARKER	PREFORMED THERMOPLASTIC PAVEMENT MARKING 24 IN. WHITE	4 IN. WHITE STANDARD WATERBORNE PAVEMENT MARKING PAINT TYPE P BEADS	4 IN. YELLOW STANDARD WATERBORNE PAVEMENT MARKING PAINT TYPE P BEADS	PAVEMENT MARKING REMOVAL	PAVEMENT MARKING REMOVAL (SYMBOLS)	BITUMINOUS SHOULDER RUMBLE STRIP	BITUMINOUS CENTERLINE RUMBLE STRIP
					LF	EA	LF	EA	EA	LF	LF	EA	LF	LF	LF	LF	EA	STA	STA
GENERAL PROJECT																			
4	0.0	0.5	ROUTE O	RT & LT	600.0	0	0	3	7										
13	4.5	5.0	ROUTE O	RT & LT	25.0	1	18	3	4										
14	5.0	5.5	ROUTE O	RT & LT	250.0	2	56	2	4										
17	6.5	7.0	ROUTE O	RT & LT	662.5	4	20	0	4										
18	7.0	7.5	ROUTE O	RT & LT	1,025.0	0	0	0	6										
20	8.0	8.5	ROUTE O	RT & LT	425.0	2	0	2	4										
23	9.5	10.0	ROUTE O	LT	525.0	0	0	0	1										
24	10.0	10.5	ROUTE O	LT	125.0	0	0	0	1										
4	0.0	0.5	ROUTE O	RT & LT									11		4,960	5,280			23.1
5	0.5	1.0	ROUTE O	RT & LT											4,866	5,280			26.4
6	1.0	1.5	ROUTE O	RT & LT											5,212	5,280			26.4
7	1.5	2.0	ROUTE O	RT & LT											5,256	5,280			26.4
8	2.0	2.5	ROUTE O	RT & LT											5,280	5,280			26.4
9	2.5	3.0	ROUTE O	RT & LT									36		5,196	5,448			26.4
10	3.0	3.5	ROUTE O	RT & LT											5,280	5,280			26.4
11	3.5	4.0	ROUTE O	RT & LT											5,280	5,280			26.4
12	4.0	4.5	ROUTE O	RT & LT											5,248	5,280			26.4
13	4.5	5.0	ROUTE O	RT & LT											5,133	5,280			19.6
14	5.0	5.5	ROUTE O	RT & LT											4,867	5,280			24.5
15	5.5	6.0	ROUTE O	RT & LT											5,154	5,280			26.4
16	6.0	6.5	ROUTE O	RT & LT											5,104	5,280			26.4
17	6.5	7.0	ROUTE O	RT & LT											5,232	5,280			22.7
18	7.0	7.5	ROUTE O	RT & LT											5,163	5,280			51.4
19	7.5	8.0	ROUTE O	RT & LT											4,816	5,280			47.2
20	8.0	8.5	ROUTE O	RT & LT											5,170	5,280			44.2
21	8.5	9.0	ROUTE O	RT & LT											5,280	5,280			52.8
22	9.0	9.5	ROUTE O	RT & LT									30		5,621	5,280			50.7
23	9.5	10.0	ROUTE O	RT & LT											5,280	5,384			52.8
24	10.0	10.5	ROUTE O	RT & LT											5,210	5,280			52.0
25	10.5	11.0	ROUTE O	RT & LT							3		45		5,190	5,280			51.8
26	11.0	11.5	ROUTE O	RT & LT											5,244	5,280			51.2
27	11.5	12.0	ROUTE O	RT & LT											5,296	5,280			50.7
28	12.0	12.128	ROUTE O	RT & LT											1,352	1,352			13.5
				RTE. O SUBTOTAL	3,638	9	94	10	31		3		122		125,690	128,344			555.8	621.2
				RTE. F SUBTOTAL	900	8			8	266			48	2	24,525	19,761	687	2	143.8	91.2
				RTE. NN SUBTOTAL							1		109		106,877	109,423				546.2
				TOTALS	4,538	17	94	10	39	266	4		279	2	257,092	257,528	687	2	699.6	1,258.6

REMOVAL OF IMPROVEMENTS - SIGNS (RTE. O - 2 OF 4)

SHEET	LOG MILE	ROADWAY	LOCATION	DESCRIPTION	POST	SIGN	UNITS
4	8.115	HWY AT	LT	TO 44/50	2	10	EA
4	8.115	HWY AT	LT	TO WEST 50	1	6	EA
4	8.115	HWY AT	LT	TO EAST/WEST 44	2	8	EA
4	0.003	ROUTE O	LT	STOP		1	EA
4	0.003	ROUTE O	LT	DO NOT ENTER/YIELD		2	EA
4	0.006	ROUTE O	RT	YIELD	1	1	EA
4	0.013	ROUTE O	RT	RIGHT HOOK/30 MPH	1	2	EA
4	0.042	ROUTE O	LT	CHEVRON	1	2	EA
4	0.069	ROUTE O	LT	CHEVRON	1	2	EA
4	0.072	ROUTE O	RT	T INTERSECTION		1	EA
4	0.097	ROUTE O	LT	CHEVRON/RT ARROW		3	EA
4	0.112	ROUTE O	LT	CHEVRON	1	2	EA
4	0.132	ROUTE O	RT	CHEVRON	1	2	EA
4	0.134	ROUTE O	LT	CHEVRON/LT ARROW		3	EA
4	0.15	ROUTE O	LT	CHEVRON	1	2	EA
4	0.162	ROUTE O	LT	CHEVRON		2	EA
4	0.164	ROUTE O	LT	TO 50 JCT	1	5	EA
4	0.181	ROUTE O	LT	TO EAST/WEST 44	1	8	EA
4	0.196	ROUTE O	LT	LT/RT ARROW		1	EA
4	0.202	I-44 RAMP	RT	TO WEST 50 AT O	2	9	EA
4	0.211	ROUTE O	LT	LT ARROW/30 MPH		3	EA
4	0.225	ROUTE O	LT	LT ARROW 30 MPH		3	EA
5	0.614	ARBORVIEW DR.	LT	STOP		1	EA
5	0.94	ROUTE O	RT	RIGHT ARROW/40 MPH		2	EA
5	0.992	ROUTE O	LT	OBSTACLE		1	EA
6	0.998	ROUTE O	LT	OBSTACE		1	EA
6	1.085	ROUTE O	LT	LT ARRW/40 MPH	1	2	EA
6	1.101	ROUTE O	RT	LT ARROW/45 MPH		2	EA
6	1.201	ROUTE O	RT	TRUCK		1	EA
6	1.217	ROUTE O	LT	RT ARROW/45 MPH		2	EA
6	1.278	ROUTE O	LT	OBSTACLE		1	EA
6	1.278	ROUTE O	RT	OBSTACLE		1	EA
6	1.286	ROUTE O	LT	OBSTACLE		1	EA
6	1.286	ROUTE O	RT	OBSTACLE		1	EA
6	1.47	AMERICAN INN RD.	RT	STOP		1	EA
7	1.505	ROUTE O	LT	TRUCK		1	EA
7	1.516	ROUTE O	RT	RT ARROW/40 MPH		2	EA

SHAPING SLOPES CLASS III -- MOD. MATERIAL REQUIREMENTS

SHEET	LOG MILE	LOCATION	CLASS III (100 FT)
13	4.718	LT. & RT.	2
13	4.846	LT. & RT.	2
14	5.134	LT. & RT.	2
14	5.17	LT. & RT.	2
17	6.802	LT. & RT.	2
17	6.873	LT. & RT.	2
18	7.11	LT.	1
18	7.101	RT.	1
18	7.119	RT.	1
18	7.124	RT.	1
18	7.204	LT.	1
18	7.219	RT.	1
20	8.312	LT. & RT.	2
20	8.377	LT. & RT.	2
		RTE. O SUBTOTAL	22
		TOTAL	22

MISC. TEMPORARY TRAFFIC CONTROL
LUMP SUM = 1

CONTRACTOR FURNISHED SURVEYING AND STAKING
LUMP SUM = 1

MOBILIZATION
LUMP SUM = 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) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

ROUTE O
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SHEET 3 OF 13

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PROFESSIONAL ENGINEER

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ROUTE	STATE
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SL	3

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JOB NO.: JSL0034

CONTRACT ID.:

PROJECT NO.:

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DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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CERTIFICATE OF AUTHORITY: 000159
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REMOVAL OF IMPROVEMENTS - SIGNS (RTE. O - 3 OF 4)

SHEET	LOG MILE	ROADWAY	LOCATION	DESCRIPTION	POST	SIGN	UNITS
7	1.675	ROUTE O	LT	LT ARROW/40 MPH		2	EA
7	1.789	ROUTE O	LT	OBSTACLE	1	1	EA
7	1.792	ROUTE O	RT	OBSTACLE		1	EA
7	1.795	ROUTE O	LT	OBSTACLE	1	1	EA
7	1.803	ROUTE O	RT	OBSTACLE		1	EA
8	2.12	ROUTE O	RT	LT ARROW/45 MPH		2	EA
8	2.295	ROUTE O	LT	RT ARROW/45 MPH		2	EA
8	2.41	ROUTE O	RT	RT ARROW/40 MPH		2	EA
8	2.441	ROUTE O	LT	50 MPH		1	EA
8	2.492	ROUTE O	RT	JCT	1	2	EA
9	2.56	ROUTE O	LT	INTERSECTION		1	EA
9	2.627	ROUTE O	RT	HWY O/HWY AM		4	EA
9	2.65	ROUTE O	LT	LT ARROW/40 MPH		2	EA
9	2.671	ROUTE O	RT	LT ARROW/40 MPH		2	EA
9	2.684	ROUTE O	LT	HWY O/LT RT ARROW		2	EA
9	2.739	ROUTE O	RT	INTERSECTION		1	EA
9	2.762	ROUTE O	RT	CHEVRON	1	2	EA
9	2.793	ROUTE O	RT	CHEVRON	1	2	EA
9	2.808	ROUTE O	RT	CHEVRON	1	2	EA
9	2.822	ROUTE O	RT	CHEVRON	1	2	EA
9	2.844	ROUTE O	RT	CHEVRON	1	2	EA
9	2.41	ROUTE O	LT	RT ARROW/40 MPH		2	EA
9	2.886	ROUTE O	RT	CURVED ARROW/40 MPH		2	EA
9	2.951	ROUTE O	RT	CHEVRON		2	EA
9	2.965	WOODS DR.	RT	STOP		1	EA
9	2.968	ROUTE O	RT	CHEVRON		2	EA
9	2.984	ROUTE O	RT	CHEVRON		2	EA
10	3.185	ROUTE O	RT	CURVED ARROW/30 MPH		2	EA
10	3.222	ROUTE O	RT	CHEVRON	1	2	EA
10	3.233	ROUTE O	RT	CHEVRON	1	2	EA
10	3.246	ROUTE O	RT	CHEVRON/ LT ARROW	1	3	EA
10	3.254	ROUTE O	RT	CHEVRON	1	2	EA
10	3.258	ROUTE O	RT	CHEVRON/ RT ARROW	1	3	EA
10	3.364	ROUTE O	RT	CHEVRON		2	EA
10	3.282	ROUTE O	RT	CHEVRON		2	EA
10	3.289	ROUTE O	RT	CHEVRON		2	EA
10	3.379	ROUTE O	LT	CHEVRON		2	EA
10	3.391	ROUTE O	LT	CHEVRON		2	EA
10	3.402	ROUTE O	LT	CHEVRON		2	EA
10	3.413	ROUTE O	LT	CHEVRON		2	EA
10	3.425	ROUTE O	LT	CHEVRON		2	EA
10	3.498	ROUTE O	LT	CURVED ARROW/30 MPH		2	EA
11	3.509	ROUTE O	RT	CURVED ARROW/30 MPH		2	EA
11	3.741	ROUTE O	RT	CHEVRON		2	EA
11	3.753	ROUTE O	RT	CHEVRON/ LT ARROW	1	3	EA
11	3.763	ROUTE O	RT	CHEVRON	1	2	EA
11	3.767	ROUTE O	RT	CHEVRON	1	2	EA
11	3.775	ROUTE O	RT	CHEVRON/ RT ARROW	1	3	EA
11	3.806	ROUTE O	RT	CHEVRON	1	2	EA
11	3.874	ROUTE O	LT	CURVED ARROW/30 MPH	1	2	EA
11	3.874	ROUTE O	LT	OBSTACLE	1	1	EA
11	3.896	ROUTE O	LT	OBSTACLE		1	EA
12	4.051	ROUTE O	RT	CURVED ARROW/40 MPH		2	EA
12	4.141	ROUTE O	LT	CHEVRON	1	2	EA
12	4.157	ROUTE O	LT	CHEVRON	1	2	EA
12	4.172	ROUTE O	LT	CHEVRON	1	2	EA
12	4.187	ROUTE O	LT	CHEVRON	1	2	EA
12	4.219	ROUTE O	LT	CHEVRON	1	2	EA
12	4.273	ROUTE O	LT	CURVED ARROW/40 MPH		2	EA
12	4.398	ROBERTSVILLE RD.	LT	STOP		1	EA
12	4.274	ROUTE O	RT	HWY O	1	2	EA
12	4.464	ROUTE O	RT	50 MPH		1	EA
13	4.677	ROUTE O	RT	RT ARROW/45 MPH		2	EA
13	4.697	WOODS DR.	RT	STOP		1	EA
13	4.934	MONTGOMERY RD.	LT	STOP		1	EA
14	5.016	CIRCLE DR.	RT	STOP		1	EA
14	5.055	ROUTE O	LT	LT ARROW/45 MPH		2	EA
14	5.101	ROUTE O	RT	CURVED ARROW/40 MPH		2	EA
14	5.173	ROUTE O	LT	50 MPH		1	EA
14	5.196	ROUTE O	RT	HWY O/AK	2	4	EA
14	5.241	ROUTE O	LT	HWY O		2	EA
14	5.264	ROUTE O	LT	HWY AK/O		4	EA
14	5.285	ROUTE O	RT	HWY O		1	EA
14	5.435	HIGH MEADOWS DR.	RT	STOP		1	EA
14	5.473	ADLER LN.	LT	STOP	1	1	EA
15	5.6	ROUTE O	LT	CURVED ARROW/40 MPH		2	EA
15	5.653	ROUTE O	RT	FIRETRUCK		1	EA
15	5.682	ROUTE O	RT	45 MPH		1	EA
15	5.741	ROUTE O	RT	JCT HWY N		2	EA
15	5.787	ROUTE O	LT	T INTERSECTION		1	EA
15	5.787	ROUTE O	RT	T INTERSECTION		1	EA

REMOVAL OF IMPROVEMENTS - SIGNS (RTE. O - 4 OF 4)

SHEET	LOG MILE	ROADWAY	LOCATION	DESCRIPTION	POST	SIGN	UNITS
15	5.81	S MONTGOMERY RD.	RT	STOP		1	EA
15	5.861	ROUTE O	LT	FIRETRUCK		1	EA
15	5.878	ROUTE O	RT	HWY O/N		4	EA
15	5.892	ROUTE O	LT	HWY N/O		4	EA
15	5.931	ROUTE O	RT	HWY N/O		2	EA
15	5.963	ADAMS ST.	RT	STOP		1	EA
15	5.986	ROUTE O	RT	T INTERSECTION		1	EA
15	5.986	ROUTE O	LT	T INTERSECTION		1	EA
16	6.03	ROUTE O	LT	HWY N		2	EA
16	6.042	JEFFERSON ST.	RT	STOP		1	EA
16	6.057	ROUTE O	RT	50 MPH		1	EA
16	6.063	ROUTE O	LT	45 MPH		1	EA
16	6.083	JOHNSON LN.	LT	STOP		1	EA
16	6.163	ROUTE O	RT	OBSTACLE		1	EA
16	6.166	ROUTE O	LT	OBSTACLE		1	EA
16	6.169	ROUTE O	RT	OBSTACLE		1	EA
16	6.17	ROUTE O	LT	OBSTACLE		1	EA
16	6.304	ROUTE O	RT	LT ARROW/50 MPH	1	2	EA
17	6.576	ROUTE O	LT	RT ARROW/50 MPH		2	EA
17	6.606	ROUTE O	RT	55 MPH	1	1	EA
17	6.614	ROUTE O	LT	50 MPH		1	EA
17	6.753	SHANNON LN.	RT	STOP		1	EA
18	7.131	CALVEY CREEK RD.	RT	STOP		1	EA
18	7.238	WILD PLUM VALLEY	LT	STOP		1	EA
19	7.674	ROUTE O	LT	ROBERTSVILLE,1-44	2	1	EA
19	7.777	ROUTE O	LT	INTERSECTION		1	EA
19	7.778	ROUTE O	LT	INTERSECTION		1	EA
19	7.832	ROUTE O	RT	PACIFIC,CATAWISSA, ROUTE 30		1	EA
19	7.866	ROUTE O	LT	HWY N/O	1	2	EA
19	7.869	ROUTE O	RT	HWY O/N/HH	2	6	EA
19	7.941	ROUTE O	LT	HWY O/N/HH		6	EA
19	7.977	ROUTE O	LT	ROBERTSVILLE,ROUTE 30, CATAWISSA		1	EA
20	8.025	ROUTE O	RT	ROUTE F, PACIFIC	2	1	EA
20	8.028	ROUTE O	LT	INTERSECTION		1	EA
20	8.029	ROUTE O	RT	INTERSECTION, HWY N/HH		3	EA
20	8.277	ROUTE O	LT	55 MPH	1	1	EA
20	8.315	ROUTE O	LT	HWY O		1	EA
20	8.401	WILD PLUM VALLEY	LT	STOP		1	EA
20	8.445	ROUTE O	RT	HWY O		1	EA
20	8.483	ROUTE O	RT	55 MPH		1	EA
22	9.232	ROUTE O	LT	HWY O, LT/RT ARROW		2	EA
22	9.245	TINY RIDGE WAY	RT	STOP		1	EA
23	9.592	ROUTE O	RT	RT ARROW/50 MPH		2	EA
24	10.393	ROUTE O	LT	55 MPH		1	EA
24	10.431	ROUTE O	LT	CATAWISSA, ROBERTSVILLE, I-44		1	EA
24	10.439	ROUTE O	RT	PACIFIC, ROUTE 30		1	EA
24	10.466	ROUTE O	LT	HWY O		1	EA
24	10.472	ROUTE O	RT	HWY O/NN	2	4	EA
24	10.499	ROUTE O	LT	LT/RT ARROW		1	EA
25	10.501	ROUTE O	LT	HWY O/ LT/RT ARROW		2	EA
25	10.519	ROUTE O	LT	HWY NN/O	2	4	EA
25	10.593	ROUTE O	LT	CATAWISSA, ROUTE 30		1	EA
25	10.831	PHELAN RD.	LT	STOP		1	EA
26	11.221	NORTHWOODS DR.	LT	STOP		1	EA
26	11.378	PHELAN FARM RD.	LT	STOP		1	EA
26	11.391	WINDY VALLEY LN.	RT	STOP		1	EA
27	11.594	ROUTE O	LT	FRANKLIN COUNTY LINE		3	EA
27	11.594	ROUTE O	RT	JEFFERSON COUNTY LINE		1	EA
27	11.653	CAMP SOLIDARITY	LT	STOP		1	EA
27	11.928	MANGAN RD.	RT	STOP		1	EA
				TOTAL		1	LS

NOTE: RTE. O, RTE. F, AND RTE. NN INCLUDED IN LUMP SUM QUANITITY SHOWN

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SHEET 4 OF 13

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DATE PREPARED
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...\03_QU_01-04_06-12_JSL0034_i1.dgn 4:36:58 PM 8/8/2024

DIVISION 400 FLEXIBLE PAVEMENTS (RTE. F)

SHEET	BEGIN LOG MILE	END LOG MILE	ROADWAY	LOCATION	BITUMINOUS PAVEMENT MIXTURE PG64-22, (BP-1LT) TONS	BITUMINOUS PAVEMENT MIXTURE PG64-22, (BP-2) TONS	TACK COAT GAL	COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS) SQYD	NOTES
MAINLINE RESURFACING									
29	0.167	0.197	ROUTE F	RT & LT	67.6		62.5	624.8	
30	0.618	0.796	ROUTE F	RT & LT	305.1	143.1	459.5	4,594.8	
30	0.816	1.000	ROUTE F	RT & LT	315.4	147.9	475.0	4,749.7	
31	1.000	1.243	ROUTE F	RT & LT	416.6	195.3	627.3	6,272.6	
31	1.385	1.450	ROUTE F	RT & LT	111.4	52.2	167.8	1,677.9	
32	1.450	1.900	ROUTE F	RT & LT	771.4	361.7	1,161.6	11,616.0	
33	1.900	2.300	ROUTE F	RT & LT	685.7	321.5	1,032.5	10,325.3	
34	2.300	2.507	ROUTE F	RT & LT	354.8	166.4	534.3	5,343.4	
SIDE ROADS & ENTRANCES									
30	0.645		ROUTE F	LT		2.1	2.6	25.6	FRONTAGE RD (N)
30	0.912		ROUTE F	RT		30.5	37.9	378.9	JEFFERSON ST
31	1.025		ROUTE F	LT		2.1	2.6	25.9	FRONTAGE RD (S)
31	1.028		ROUTE F	RT		12.5	15.6	155.6	BEAUCHAMP RD
32	1.495		ROUTE F	LT		11.9	14.8	148.1	PALISADES DR
32	1.520		ROUTE F	RT		2.4	3.0	29.6	CE
32	1.546		ROUTE F	RT		2.1	2.5	25.5	CE
32	1.567		ROUTE F	RT		2.1	2.6	25.9	CE
32	1.634		ROUTE F	LT		15.9	19.7	197.0	BUSCHER RD
32	1.634		ROUTE F	RT		18.3	22.8	227.7	OPEECHEE BEACH RD
32	1.877		ROUTE F	RT		1.0	1.2	12.0	PE
33	1.925		ROUTE F	LT		0.8	0.9	9.4	PE
33	2.145		ROUTE F	LT		10.9	13.5	135.4	CATTAIL LN
34	2.383		ROUTE F	RT		3.0	3.7	37.3	BUENA VISTA DR
34	2.483		ROUTE F	RT		8.1	10.0	100.3	HY VISTA DR
SURFACE IRREGULARITIES									
					151.4	69.4	226.0		ESTIMATED AT 5% OF MAINLINE RESURFACING
				ROUTE F - SUBTOTAL	3,179.4	1,581.2	4,900	46,739	

REMOVAL OF IMPROVEMENTS (SIGNS) (RTE. F)

SHEET	LOG MILE	ROADWAY	LOCATION	DESCRIPTION	POST	SIGN	UNITS
30	0.577	ROUTE F	RT	TRUCK ROUTE TO INDUSTRIAL PARK STRAIGHT ARROW	1	1	EA
30	0.789	ROUTE F	RT	SPEED LIMIT 50	1	1	EA
30	0.794	ROUTE F	RT	BRUSH CREEK	1	1	EA
30	0.796	ROUTE F	LT	SPEED LIMIT 35	1	1	EA
30	0.816	ROUTE F	LT	BRUSH CREEK	1	1	EA
30	0.866	ROUTE F	LT	REDUCED SPEED AHEAD 35 M.P.H. (SYMBOL)		1	EA
30	0.867	ROUTE F	RT	CURVE LEFT / ADV 50 MPH	1	2	EA
30	0.885	ROUTE F	RT	TRUCK ROUTE TO INDUSTRIAL PARK RIGHT ARROW	1	1	EA
30	0.910	ROUTE F	LT	DOUBLE ARROW BOARD		1	EA
30	0.916	ROUTE F	RT	STOP (JEFFERSON ST)		2	EA
30	0.958	ROUTE F	LT	TRUCK ROUTE TO INDUSTRIAL PARK LEFT ARROW	1	1	EA
31	1.178	ROUTE F	RT	SPEED LIMIT 55	1	1	EA
31	1.179	ROUTE F	LT	PACIFIC CITY LIMIT		1	EA
31	1.221	ROUTE F	RT	WEIGHT LIMIT 55 TONS [PLUMB POST]		1	EA
31	1.378	ROUTE F	LT	ENTERING FRANKLIN COUNTY		1	EA
31	1.389	ROUTE F	RT	ENTERING JEFFERSON COUNTY		1	EA
31	1.406	ROUTE F	LT	WEIGHT LIMIT 55 TONS		1	EA
31	1.433	ROUTE F	RT	CURVE RIGHT	1	1	EA
32	1.488	ROUTE F	LT	STOP (PALISADES DR)	1	1	EA
32	1.627	ROUTE F	LT	STOP (BUSCHER RD)		1	EA
32	1.854	ROUTE F	LT	CURVE LEFT	1	1	EA
32	1.854	ROUTE F	LT	ADVISORY SPEED PLAQUE 55 M.P.H.		1	EA
33	2.264	ROUTE F	RT	JCT (JUNCTION SIGN-WHITE) [PLUMB POST]		1	EA
33	2.264	ROUTE F	RT	MISSOURI LETTERED ROUTE SHIELD O [PLUMB POST]		1	EA
34	2.393	ROUTE F	LT	MISSOURI LETTERED ROUTE SHIELD F	1	1	EA
34	2.425	ROUTE F	LT	SPEED LIMIT 55	1	1	EA
34	2.462	ROUTE F	RT	45 DEGREES LEFT ARROW-WHITE	1	1	EA
34	2.462	ROUTE F	RT	MISSOURI LETTERED ROUTE SHIELD F		1	EA
34	2.462	ROUTE F	RT	LEFT TURN ARROW-WHITE		1	EA
34	2.462	ROUTE F	RT	MISSOURI LETTERED ROUTE SHIELD O		1	EA
34	2.462	ROUTE F	RT	STRAIGHT ARROW-WHITE		1	EA
34	2.485	ROUTE F	LT	STOP (ROUTE F)	1	1	EA
34	2.507	ROUTE F	LT	MISSOURI LETTERED ROUTE SHIELD F		1	EA
34	2.507	ROUTE F	LT	LEFT TURN ARROW-WHITE		1	EA
34	2.507	ROUTE F	LT	END		1	EA
34	2.507	ROUTE F	LT	MISSOURI LETTERED ROUTE SHIELD O		1	EA
34	2.507	ROUTE F	LT	STRAIGHT ARROW-WHITE		1	EA
34	2.507	ROUTE F	LT	MISSOURI LETTERED ROUTE SHIELD F		1	EA
34	2.507	ROUTE F	LT	UP AND RIGHT ARROW-WHITE		1	EA

REMOVAL OF IMPROVEMENTS (RTE. F)

SHEET	BEGIN LOG MILE	END LOG MILE	ROADWAY	LOCATION	DESCRIPTION	QUANTITY	UNITS
30	0.772	0.796	ROUTE F	LT & RT	GUARDRAIL	250	LF
30	0.816	0.840	ROUTE F	LT & RT	GUARDRAIL	250	LF
31	1.205	1.243	ROUTE F	LT & RT	GUARDRAIL	400	LF
31	1.385	1.423	ROUTE F	LT & RT	GUARDRAIL	400	LF

DIVISION 600 INCIDENTAL CONSTRUCTION (RTE. F)

SHEET	BEGIN LOG MILE	END LOG MILE	ROADWAY	LOCATION	MGS GUARDRAIL LF	MGS BRIDGE APPROACH TRANSITION SECTION (REGULAR/NO CURB) EA	TYPE A CRASHWORTHY END TERMINAL (MASH) EA	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 6 IN. WHITE LF	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE LF	PREFORMED THERMOPLASTIC PAVEMENT MARKING, R/R CROSSING MARKER EA	4 IN. WHITE STANDARD WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS LF	4 IN. YELLOW STANDARD WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS LF	PAVEMENT MARKING REMOVAL LF	PAVEMENT MARKING REMOVAL (SYMBOLS) EA	BITUMINOUS SHOULDER RUMBLE STRIP STA	BITUMINOUS CENTERLINE RUMBLE STRIP STA	NOTES
GENERAL PROJECT																	
30	0.772	0.796	ROUTE F	RT & LT	225	2	2										BRUSH CREEK
30	0.816	0.840	ROUTE F	RT & LT	225	2	2										BRUSH CREEK
31	1.205	1.243	ROUTE F	RT & LT	225	2	2										MERAMEC RIVER
31	1.385	1.423	ROUTE F	RT & LT	225	2	2										MERAMEC RIVER
MAINLINE RESURFACING																	
29	0.008	0.500	ROUTE F	RT & LT				266	48	2	4,288	4,054	687	2			NO PASSING ZONE
30	0.500	0.618	ROUTE F	RT & LT							1,146	1,246					NO PASSING ZONE
30	0.618	0.834	ROUTE F	RT & LT							2,281	285			18.28	10.35	
30	0.834	0.918	ROUTE F	RT & LT							777	554			5.97	4.44	SB NO PASSING ZONE
30	0.918	1.000	ROUTE F	RT & LT							866	866			8.66	4.33	NO PASSING ZONE
31	1.000	1.083	ROUTE F	RT & LT							780	876			3.58	4.38	NO PASSING ZONE
31	1.083	1.254	ROUTE F	RT & LT							1,806	1,129			16.90	8.45	NB NO PASSING ZONE
31	1.254	1.385	ROUTE F	RT & LT							1,383	173			0.00	0.00	
31	1.385	1.450	ROUTE F	RT & LT							686	429			6.86	3.43	SB NO PASSING ZONE
32	1.450	1.553	ROUTE F	RT & LT							1,016	680			4.72	5.44	SB NO PASSING ZONE
32	1.553	1.883	ROUTE F	RT & LT							3,299	3,485			26.13	17.42	NO PASSING ZONE
32	1.883	1.900	ROUTE F	RT & LT							180	112			1.80	0.90	SB NO PASSING ZONE
33	1.900	2.036	ROUTE F	RT & LT							1,436	898			12.30	7.18	SB NO PASSING ZONE
33	2.036	2.300	ROUTE F	RT & LT							2,728	2,788			25.48	13.94	NO PASSING ZONE
34	2.300	2.507	ROUTE F	RT & LT							1,854	2,186			13.14	10.93	NO PASSING ZONE
				ROUTE F - SUBTOTAL	900	8	8	266	48	2	24,525	19,761	687	2	143.8	91.2	

DISCLAIMER
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ROUTE F
SUMMARY OF QUANTITIES
SHEET 5 OF 13

STATE OF MISSOURI
JOHN A. HOCK
NUMBER E-23292
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/8/2024
ROUTE O/F/NN | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY FRANK/JEFF
JOB NO. JSL0034
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE | REV.

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

EDSI
ENGINEERING DESIGN SOURCE, INC.
16141 Swingley Ridge Rd., Suite 300
Chesterfield, Missouri 63017
Missouri State Engineering Corporation #001523
T. 636 537 5585
F. 636 537 0275

DIVISION 400 -- FLEXIBLE PAVEMENTS (RTE. NN - 1 OF 4)

SHEET	BEGIN LOG MILE	END LOG MILE	ROADWAY	LOCATION	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1) TONS	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-2) TONS	TACK COAT - NON-TRACKING GAL.	COLD MILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING SQ. YD.	HIGH FRICTION SURFACE TREATMENT SQ. YD.	NOTES
MAINLINE RESURFACING										
35	0.000	0.450	ROUTE NN	RT & LT	764.6	178.7	921.0	9,210.0		
36	0.450	0.801	ROUTE NN	RT & LT	493.3		453.0	4,530.2		
37	0.678	1.150	ROUTE NN	RT & LT	676.0		620.8	6,207.9		
38	1.150	1.650	ROUTE NN	RT & LT	696.4		639.5	6,395.1		
39	1.650	2.100	ROUTE NN	RT & LT	633.2		581.6	5,815.5		
40	2.100	2.550	ROUTE NN	RT & LT	632.4		580.8	5,808.0		
41	2.550	3.050	ROUTE NN	RT & LT	702.7		645.3	6,453.3		
42	3.050	3.550	ROUTE NN	RT & LT	702.7		645.3	6,453.3		
43	3.550	4.000	ROUTE NN	RT & LT	632.4		580.8	5,808.0		
44	4.000	4.500	ROUTE NN	RT & LT	702.7		645.3	6,453.3		
45	4.500	5.000	ROUTE NN	RT & LT	702.7		645.3	6,453.3		
46	5.000	5.400	ROUTE NN	RT & LT	562.2		516.3	5,162.7		
47	5.400	5.900	ROUTE NN	RT & LT	702.7		645.3	6,453.3		
48	5.900	6.400	ROUTE NN	RT & LT	702.7		645.3	6,453.3		
49	6.400	6.800	ROUTE NN	RT & LT	562.2		516.3	5,162.7		
50	6.800	7.200	ROUTE NN	RT & LT	562.2		516.3	5,162.7		
51	7.200	7.650	ROUTE NN	RT & LT	632.4		580.8	5,808.0		
52	7.650	8.100	ROUTE NN	RT & LT	632.4		580.8	5,808.0		
53	8.100	8.600	ROUTE NN	RT & LT	702.7		645.3	6,453.3		
54	8.600	9.050	ROUTE NN	RT & LT	608.5		558.9	5,588.6		
55	9.050	9.550	ROUTE NN	RT & LT	702.7		645.3	6,453.3	2,774.9	
56	9.550	10.000	ROUTE NN	RT & LT	632.4		580.8	5,808.0	2,278.1	
57	10.000	10.239	ROUTE NN	RT & LT	408.4	13.6	391.8	3,917.6		
RTE. NN - MAINLINE SUBTOTAL					14,750.5	192.4	13,782.0	137,819.7	5,053.1	
SIDE ROADS & ENTRANCES										
35	0.101		ROUTE NN	LT		1.1	1.1	10.5		F.E.
35	0.155		ROUTE NN	RT		2.8	2.6	26.1		P.E.
35	0.162		ROUTE NN	LT		1.1	1.0	9.9		P.E.
35	0.211		ROUTE NN	LT		1.2	1.1	11.2		P.E.
35	0.214		ROUTE NN	RT		1.3	1.2	11.9		P.E.
35	0.275		ROUTE NN	LT		1.6	1.5	14.7		P.E.
35	0.279		ROUTE NN	RT		7.0	6.4	64.0		P.E.
35	0.338		ROUTE NN	RT	1.2		1.1	10.9		P.E.
35	0.390		ROUTE NN	RT	1.2		1.1	10.9		P.E.
35	0.399		ROUTE NN	RT	1.6		1.4	14.2		P.E.
35	0.407		ROUTE NN	LT	1.2		1.1	11.2		P.E.
36	0.465		ROUTE NN	LT	1.0		0.9	8.9		P.E.
36	0.496		ROUTE NN	LT	1.2		1.1	11.2		P.E.
36	0.506		ROUTE NN	LT	0.9		0.8	8.4		P.E.
36	0.512		ROUTE NN	RT	9.9		9.1	90.9		W MANGAN RD
36	0.569		ROUTE NN	RT	1.1		1.0	10.1		P.E.
36	0.615		ROUTE NN	LT	1.4		1.3	13.1		P.E.
36	0.623		ROUTE NN	RT	1.0		0.9	9.3		P.E.
36	0.645		ROUTE NN	RT	1.3		1.2	11.6		P.E.
36	0.694		TINY RIDGE WAY	RT	2.1		1.9	19.3		P.E.
36	0.702		TINY RIDGE WAY	LT	2.5		2.3	23.3		C.E.
36	0.733		TINY RIDGE WAY	LT	9.0		8.3	82.9		RONNIE LN
36	0.734		TINY RIDGE WAY	RT	2.0		1.9	18.5		P.E.
36	0.783		TINY RIDGE WAY	RT	2.1		1.9	19.1		TWIN OAKS DR
37	0.699		ROUTE NN	RT	1.5		1.4	13.7		C.E.
37	0.719		ROUTE NN	RT	3.2		3.0	29.5		C.E.
37	0.730		ROUTE NN	LT	22.6		20.8	207.8		WADE RD
37	0.748		ROUTE NN	RT	1.7		1.6	15.9		P.E.
37	0.770		ROUTE NN	RT	1.3		1.2	11.6		P.E.
37	0.793		ROUTE NN	RT	1.5		1.4	13.9		P.E.
37	0.838		ROUTE NN	RT	0.8		0.7	7.3		P.E.
37	0.859		ROUTE NN	LT	0.8		0.7	7.4		P.E.
37	0.876		ROUTE NN	RT	2.2		2.1	20.6		P.E.
37	0.908		ROUTE NN	LT	1.5		1.4	13.6		P.E.
37	0.913		ROUTE NN	RT	1.4		1.3	12.9		C.E.
37	0.956		ROUTE NN	RT	9.0		8.2	82.4		C.E.
37	0.966		ROUTE NN	RT	0.8		0.7	7.1		F.E.
37	0.977		ROUTE NN	LT	6.6		6.1	60.6		LEROY AVE
37	0.984		ROUTE NN	RT	1.3		1.2	11.6		P.E.
38	1.238		ROUTE NN	LT	2.3		2.1	20.9		F.E.
38	1.606		ROUTE NN	RT	1.3		1.2	12.1		P.E.
38	1.609		ROUTE NN	LT	3.0		2.8	27.6		DONROE AVENUE
39	1.730		ROUTE NN	RT	31.1		28.6	285.9		ROUTE AP
39	1.778		ROUTE NN	RT	9.0		8.3	82.8		P.E.
39	1.843		ROUTE NN	RT	2.1		2.0	19.7		P.E.
39	1.959		ROUTE NN	RT	25.9		23.8	237.8		ROCK CHURCH RD
39	2.056		ROUTE NN	RT	1.0		0.9	8.8		P.E.
39	2.066		ROUTE NN	RT	1.2		1.1	10.7		P.E.
40	2.111		ROUTE NN	LT	1.6		1.5	15.0		P.E.
40	2.180		ROUTE NN	RT	2.0		1.8	18.2		F.E.
RTE. NN - SIDE ROADS & ENTRANCES SUBTOTAL 1					177.4	16.2	177.7	1,777.3	0.0	

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ROUTE NN
SUMMARY OF QUANTITIES
SHEET 6 OF 13

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4361 FAX: 314-436-2360 WWW.HORNERSHIFRIN.COM
DESIGN FIRM - PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

DIVISION 400 FLEXIBLE PAVEMENTS (RTE. NN – 2 OF 4)

SHEET	BEGIN LOG MILE	END LOG MILE	ROADWAY	LOCATION	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1) TONS	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-2) TONS	TACK COAT – NON-TRACKING GAL.	COLD MILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING SQ. YD.	HIGH FRICTION SURFACE TREATMENT SQ. YD.	NOTES
40	2.236		ROUTE NN	RT	2.2		2.0	20.5		DEER RUN
40	2.236		ROUTE NN	LT	1.5		1.3	13.3		P.E.
40	2.370		ROUTE NN	LT	2.9		2.6	26.4		SIGNAL HILL
40	2.463		ROUTE NN	LT	1.2		1.1	10.7		P.E.
40	2.466		ROUTE NN	RT	1.1		1.0	10.5		P.E.
40	2.537		ROUTE NN	RT	1.5		1.4	13.9		P.E.
40	2.543		ROUTE NN	LT	3.1		2.8	28.4		APKE LN
41	2.638		ROUTE NN	LT	1.2		1.1	10.9		P.E.
41	2.753		ROUTE NN	RT	2.1		1.9	19.2		P.E.
41	2.794		ROUTE NN	RT	1.3		1.2	11.8		F.E.
41	2.811		ROUTE NN	LT	1.0		0.9	9.5		P.E.
41	2.832		ROUTE NN	RT	2.2		2.0	20.3		C.E.
41	2.853		ROUTE NN	LT	1.2		1.1	10.9		P.E.
41	2.909		ROUTE NN	LT	1.0		0.9	9.1		P.E.
41	2.927		ROUTE NN	LT	0.8		0.7	7.4		P.E.
41	2.964		ROUTE NN	LT	0.6		0.6	5.9		P.E.
41	2.975		ROUTE NN	LT	2.0		1.9	18.5		DAVIES LN
41	2.975		ROUTE NN	RT	1.2		1.1	11.4		P.E.
41	2.989		ROUTE NN	LT	1.8		1.7	16.9		F.E.
41	3.006		ROUTE NN	LT	1.9		1.7	17.3		P.E.
41	3.021		ROUTE NN	LT	1.0		0.9	9.5		P.E.
41	3.046		ROUTE NN	RT	4.6		4.2	42.3		HONEYSTONE RD
42	3.086		ROUTE NN	RT	1.1		1.0	9.7		P.E.
42	3.178		ROUTE NN	LT	1.3		1.2	11.6		P.E.
42	3.182		ROUTE NN	RT	1.3		1.2	11.7		P.E.
42	3.199		ROUTE NN	LT	1.5		1.4	14.2		P.E.
42	3.429		ROUTE NN	RT	2.2		2.0	20.2		E CEDAR LN
42	3.446		ROUTE NN	RT	1.4		1.3	13.1		P.E.
42	3.460		ROUTE NN	RT	2.0		1.8	18.4		P.E.
42	3.500		ROUTE NN	LT	1.8		1.6	16.3		P.E.
43	3.585		ROUTE NN	LT	1.4		1.3	12.7		P.E.
43	3.620		ROUTE NN	RT	2.0		1.8	18.2		HUMMINGBIRD RD
43	3.708		ROUTE NN	RT	1.3		1.2	12.0		P.E.
43	3.828		ROUTE NN	LT	1.7		1.6	15.7		P.E.
43	3.894		ROUTE NN	LT	3.6		3.3	33.3		SANDCUT RD
44	4.042		ROUTE NN	LT	1.4		1.3	12.8		P.E.
44	4.092		ROUTE NN	LT	1.3		1.2	12.0		P.E.
44	4.095		ROUTE NN	RT	1.7		1.5	15.2		P.E.
44	4.142		ROUTE NN	LT	1.3		1.2	11.8		P.E.
44	4.157		ROUTE NN	LT	1.0		0.9	9.3		P.E.
44	4.196		ROUTE NN	LT	0.8		0.7	7.1		P.E.
44	4.230		ROUTE NN	RT	1.3		1.2	11.7		P.E.
44	4.262		ROUTE NN	LT	1.2		1.1	11.0		P.E.
44	4.304		ROUTE NN	LT	1.2		1.1	10.8		P.E.
44	4.325		ROUTE NN	RT	1.3		1.2	12.2		P.E.
44	4.372		ROUTE NN	LT	1.8		1.6	16.3		P.E.
44	4.372		ROUTE NN	RT	1.5		1.4	14.1		P.E.
44	4.434		ROUTE NN	LT	0.9		0.8	8.2		P.E.
45	4.564		ROUTE NN	LT	19.0		17.4	174.4		BYRNESVILLE RD
45	4.575		ROUTE NN	RT	1.0		0.9	9.4		P.E.
45	4.596		ROUTE NN	RT	1.3		1.1	11.5		P.E.
45	4.755		ROUTE NN	RT	21.2		19.5	194.8		TOM FROST RD
45	4.883		ROUTE NN	LT	1.5		1.4	13.5		P.E.
45	4.949		ROUTE NN	LT	6.7		6.1	61.1		P.E.
45	4.960		ROUTE NN	RT	1.8		1.6	16.2		F.E.
46	5.094		ROUTE NN	RT	2.0		1.8	18.0		P.E.
46	5.112		ROUTE NN	RT	2.1		1.9	18.9		P.E.
46	5.142		ROUTE NN	LT	1.3		1.2	12.1		P.E.
46	5.172		ROUTE NN	RT	0.9		0.9	8.6		P.E.
46	5.229		ROUTE NN	RT	2.0		1.8	17.9		P.E.
46	5.247		ROUTE NN	LT	1.8		1.6	16.4		SUNNY RIDGE DR
46	5.249		ROUTE NN	RT	1.5		1.4	13.6		P.E.
46	5.263		ROUTE NN	LT	1.5		1.3	13.5		P.E.
46	5.287		ROUTE NN	LT	1.3		1.1	11.5		P.E.
46	5.339		ROUTE NN	RT	3.1		2.8	28.3		SALAMONE RD
46	5.398		ROUTE NN	RT	27.2		25.0	249.7		SALAMONE RD
47	5.486		ROUTE NN	LT	1.3		1.2	12.2		P.E.
47	5.569		ROUTE NN	RT	1.1		1.1	10.6		P.E.
47	5.582		ROUTE NN	LT	1.1		1.0	10.0		P.E.
47	5.661		ROUTE NN	RT	1.3		1.2	12.3		P.E.
47	5.662		ROUTE NN	LT	1.2		1.1	11.4		P.E.
47	5.691		ROUTE NN	LT	1.6		1.5	15.1		P.E.
47	5.739		ROUTE NN	LT	2.3		2.1	20.8		F.E.
47	5.809		ROUTE NN	LT	1.3		1.2	11.8		P.E.
47	5.880		ROUTE NN	LT	1.5		1.4	13.8		P.E.
48	6.000		ROUTE NN	LT	5.0		4.6	45.6		P.E.
RTE. NN – SIDE ROADS & ENTRANCES SUBTOTAL 2					191.3	0.0	175.7	1,756.9	0.0	

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ROUTE NN
SUMMARY OF QUANTITIES
SHEET 7 OF 13

STATE OF MISSOURI
STEPHEN T. SICHMELLER
LICENSE NUMBER
PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-231-4324 FAX: 314-231-4656 WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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DIVISION 400 FLEXIBLE PAVEMENTS (RTE. NN - 3 OF 4)

SHEET	BEGIN LOG MILE	END LOG MILE	ROADWAY	LOCATION	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1) TONS	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-2) TONS	TACK COAT - NON-TRACKING GAL.	COLD MILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING SQ. YD.	HIGH FRICTION SURFACE TREATMENT SQ. YD.	NOTES
48	6.086		ROUTE NN	LT	1.3		1.2	12.2		P.E.
48	6.231		ROUTE NN	LT	0.9		0.8	8.1		P.E.
48	6.337		ROUTE NN	LT	7.9		7.2	72.2		HONEY CREEK
49	6.402		ROUTE NN	LT	1.0		1.0	9.5		P.E.
49	6.530		ROUTE NN	RT	2.7		2.4	24.4		OSWALD DR
49	6.563		ROUTE NN	RT	16.2		14.9	149.1		OSWALD DR
49	6.638		ROUTE NN	RT	1.1		1.0	9.7		P.E.
49	6.729		ROUTE NN	RT	1.6		1.5	15.0		P.E.
49	6.791		ROUTE NN	LT	1.1		1.0	10.2		P.E.
50	6.850		ROUTE NN	RT	1.6		1.4	14.3		P.E.
50	6.870		ROUTE NN	RT	1.2		1.1	11.3		P.E.
50	6.872		ROUTE NN	LT	1.7		1.5	15.4		MOON DANCE LN
50	6.893		ROUTE NN	LT	2.2		2.0	20.2		MOON DANCE LN
50	7.005		ROUTE NN	RT	0.9		0.8	8.1		P.E.
50	7.045		ROUTE NN	RT	1.2		1.1	11.5		P.E.
50	7.128		ROUTE NN	RT	16.6		15.2	152.4		EIME RD
51	7.202		ROUTE NN	LT	2.0		1.8	17.9		P.E.
51	7.218		ROUTE NN	RT	1.3		1.2	12.2		P.E.
51	7.280		ROUTE NN	RT	1.2		1.1	11.4		P.E.
51	7.300		ROUTE NN	RT	1.1		1.0	10.2		P.E.
51	7.320		ROUTE NN	RT	1.2		1.1	10.9		P.E.
51	7.335		ROUTE NN	LT	1.4		1.3	12.5		P.E.
51	7.388		ROUTE NN	RT	1.5		1.3	13.4		P.E.
51	7.398		ROUTE NN	RT	1.0		0.9	9.5		P.E.
51	7.413		ROUTE NN	LT	1.8		1.7	16.8		P.E.
51	7.414		ROUTE NN	RT	0.9		0.8	8.0		P.E.
51	7.471		ROUTE NN	LT	1.5		1.4	13.9		TRINITY LN
51	7.478		ROUTE NN	RT	1.3		1.2	12.0		P.E.
51	7.541		ROUTE NN	LT	1.3		1.2	12.0		P.E.
51	7.561		ROUTE NN	RT	1.5		1.4	13.6		P.E.
51	7.568		ROUTE NN	LT	1.5		1.4	14.2		KRSHUL
51	7.588		ROUTE NN	LT	0.9		0.8	7.9		P.E.
51	7.592		ROUTE NN	RT	1.1		1.0	10.2		P.E.
51	7.606		ROUTE NN	LT	0.9		0.8	8.3		P.E.
52	7.698		ROUTE NN	LT	2.8		2.6	25.8		WINDY RIDGE RD
52	7.725		ROUTE NN	RT	2.9		2.7	26.9		P.E.
52	7.760		ROUTE NN	LT	1.1		1.0	9.8		P.E.
52	7.824		ROUTE NN	RT	1.9		1.7	17.1		P.E.
52	7.840		ROUTE NN	LT	1.2		1.1	11.2		P.E.
52	7.873		ROUTE NN	LT	1.5		1.4	13.9		P.E.
52	7.934		ROUTE NN	RT	1.1		1.0	10.0		P.E.
52	7.989		ROUTE NN	RT	1.3		1.2	11.7		P.E.
52	8.003		ROUTE NN	LT	27.8		25.5	254.9		DUTCH CREEK RD
53	8.199		ROUTE NN	LT	2.2		2.0	20.0		P.E.
53	8.219		ROUTE NN	RT	1.9		1.8	17.7		MARGIE ESTATE
53	8.263		ROUTE NN	LT	1.5		1.4	14.0		P.E.
53	8.327		ROUTE NN	RT	1.4		1.3	13.1		P.E.
53	8.336		ROUTE NN	LT	1.2		1.1	11.4		P.E.
53	8.384		ROUTE NN	RT	1.2		1.1	11.3		P.E.
53	8.404		ROUTE NN	LT	3.4		3.2	31.6		ROSELLA LN
53	8.462		ROUTE NN	LT	1.7		1.6	15.8		P.E.
53	8.502		ROUTE NN	LT	1.0		0.9	9.2		F.E.
53	8.527		ROUTE NN	LT	1.4		1.3	13.2		P.E.
53	8.541		ROUTE NN	RT	0.8		0.8	7.7		P.E.
53	8.542		ROUTE NN	LT	1.6		1.5	15.0		P.E.
53	8.555		ROUTE NN	RT	1.0		1.0	9.6		P.E.
54	8.620		ROUTE NN	RT	2.1		2.0	19.6		P.E.
54	8.704		ROUTE NN	LT	21.5		19.7	197.4		LITTLE DUTCH CREEK RD
54	8.782		ROUTE NN	RT	0.9		0.9	8.6		P.E.
54	8.922		ROUTE NN	LT	2.3		2.1	21.0		P.E.
54	8.938		ROUTE NN	LT	1.2		1.1	11.0		P.E.
54	8.996		ROUTE NN	LT	1.0		0.9	9.1		P.E.
54	9.014		ROUTE NN	RT	6.9		6.4	63.6		CEDAR BROOK DR
55	9.069		ROUTE NN	RT	1.4		1.3	13.0		P.E.
55	9.122		ROUTE NN	LT	10.9		10.0	99.8		CEDAR DR
55	9.145		ROUTE NN	RT	4.3		4.0	39.6		MAPLE DR
55	9.203		ROUTE NN	LT	2.9		2.6	26.3		SHADY VALLEY DR
55	9.274		ROUTE NN	RT	4.2		3.9	39.0		MAPLE DR
55	9.402		ROUTE NN	LT	1.9		1.7	17.2		C.E.
55	9.472		ROUTE NN	LT	9.2		8.4	84.1		KITSON LN
55	9.478		ROUTE NN	RT	2.0		1.9	18.7		F.E.
56	9.582		ROUTE NN	LT	1.5		1.4	13.7		P.E.
56	9.652		ROUTE NN	RT	4.9		4.5	44.7		C.E.
56	9.714		ROUTE NN	RT	2.4		2.2	22.3		P.E.
56	9.777		ROUTE NN	LT	7.8		7.1	71.3		C.E.
RTE. NN - SIDE ROADS & ENTRANCES SUBTOTAL 3					234.1	0.0	215.0	2,149.5	0.0	

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ROUTE NN
SUMMARY OF QUANTITIES
SHEET 8 OF 13

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-431-4343 | FAX: 314-436-2686 | WWW.HORNERSHIFRIN.COM
DIRECTOR OF PROFESSIONAL LICENSING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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DIVISION 400 FLEXIBLE PAVEMENTS (RTE. NN - 4 OF 4)										
SHEET	BEGIN LOG MILE	END LOG MILE	ROADWAY	LOCATION	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1) TONS	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-2) TONS	TACK COAT - NON-TRACKING GAL.	COLD MILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING SQ. YD.	HIGH FRICTION SURFACE TREATMENT SQ. YD.	NOTES
56	9.797		ROUTE NN	RT	1.0		1.0	9.5		P.E.
56	9.816		ROUTE NN	RT	1.7		1.6	15.7		P.E.
56	9.957		ROUTE NN	LT	2.3		2.1	21.3		HALLARD LN
56	9.965		ROUTE NN	RT	1.7		1.6	15.8		P.E.
57	10.026		ROUTE NN	RT	1.5		1.4	14.0		P.E.
57	10.041		ROUTE NN	LT	1.6		1.5	14.6		P.E.
57	10.058		ROUTE NN	RT	1.9		1.8	17.8		HILLVIEW DR
57	10.146		ROUTE NN	RT	2.8		2.6	26.0		OAK DR
57	10.154		ROUTE NN	LT	6.8		6.2	62.1		KENT DR
57	10.201		ROUTE NN	RT		21.6	19.8	197.9		C.E.
57	10.201		ROUTE NN	LT		12.8	11.7	117.1		P.E.
57	10.222		ROUTE NN	RT	21.4		19.6	196.3		OLD STATE RT 30
57	10.224		ROUTE NN	LT	33.3		30.6	306.1		OLD STATE RT 30
RTE. NN - SIDE ROADS & ENTRANCES SUBTOTAL 4					76.1	34.3	101.4	1,014.4	0.0	
SURFACE IRREGULARITIES										
					1,106.3	14.4	1,033.6	5,512.8	0.0	
RTE. NN - SURFACE IRREGULARITIES SUBTOTAL					1,106.3	14.4	1,033.6	5,512.8	0.0	
RTE. NN - MAINLINE SUBTOTAL					14,750.5	192.4	13,782.0	137,819.7	5,053.1	
RTE. NN - SIDE ROADS & ENTRANCES SUBTOTAL 1					177.4	16.2	177.7	1,777.3	0.0	
RTE. NN - SIDE ROADS & ENTRANCES SUBTOTAL 2					191.3	0.0	175.7	1,756.9	0.0	
RTE. NN - SIDE ROADS & ENTRANCES SUBTOTAL 3					234.1	0.0	215.0	2,149.5	0.0	
RTE. NN - SIDE ROADS & ENTRANCES SUBTOTAL 4					76.1	34.3	101.4	1,014.4	0.0	
RTE. NN - SURFACE IRREGULARITIES SUBTOTAL					1,106.3	14.4	1,033.6	5,512.8	0.0	
RTE. NN - SUBTOTAL					16,535.7	257.3	15,485.4	150,030.6	5,053.1	
TOTALS					16,535.7	*	*	*	5,053	

* SEE SHEET 2 OF 13 FOR TOTAL.

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ROUTE NN
SUMMARY OF QUANTITIES
SHEET 9 OF 13

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4851 • FAX 314-531-4854 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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DIVISION 600 -- INCIDENTAL CONSTRUCTION (RTE. NN)									
SHEET	BEGIN LOG MILE	END LOG MILE	ROADWAY	LOCATION	PREFORMED THERMOPLASTIC PAVEMENT MARKING 24 IN. WHITE	PREFORMED THERMOPLASTIC PAVEMENT MARKING LEFT/RIGHT ARROW	4 IN. WHITE STANDARD WATERBORNE PAVEMENT MARKING PAINT TYPE P BEADS	4 IN. YELLOW STANDARD WATERBORNE PAVEMENT MARKING PAINT TYPE P BEADS	BITUMINOUS CENTERLINE RUMBLE STRIP
					LF	EA	LF	LF	STA
MAINLINE RESURFACING									
35	0	0.2	ROUTE NN	RT & LT	45		2,112	2,112	10.6
35	0.2	0.45	ROUTE NN	RT & LT			2,640	2,640	13.2
36	0.45	0.65	ROUTE NN	RT & LT			2,040	2,112	10.6
36	0.65	0.801	TINY RIDGE WAY	RT & LT			1,369	1,595	8.0
37	0.678	0.9	ROUTE NN	RT & LT	23		2,251	2,344	11.7
37	0.9	1.15	ROUTE NN	RT & LT			2,582	2,640	13.2
38	1.15	1.4	ROUTE NN	RT & LT			2,640	2,640	13.2
38	1.4	1.65	ROUTE NN	RT & LT			2,574	2,640	13.2
39	1.65	1.9	ROUTE NN	RT & LT	16		2,514	2,640	13.2
39	1.9	2.1	ROUTE NN	RT & LT			2,012	2,112	10.6
40	2.1	2.3	ROUTE NN	RT & LT			2,062	2,112	10.6
40	2.3	2.55	ROUTE NN	RT & LT			2,511	2,640	13.2
41	2.55	2.8	ROUTE NN	RT & LT			2,640	2,640	13.2
41	2.8	3.05	ROUTE NN	RT & LT			2,496	2,640	13.2
42	3.05	3.3	ROUTE NN	RT & LT			2,640	2,640	13.2
42	3.3	3.55	ROUTE NN	RT & LT			2,589	2,640	13.2
43	3.55	3.8	ROUTE NN	RT & LT			2,595	2,640	13.2
43	3.8	4	ROUTE NN	RT & LT			2,034	2,112	10.6
44	4	4.25	ROUTE NN	RT & LT			2,640	2,640	13.2
44	4.25	4.5	ROUTE NN	RT & LT			2,640	2,640	13.2
45	4.5	4.75	ROUTE NN	RT & LT			2,514	2,640	13.2
45	4.75	5	ROUTE NN	RT & LT			2,563	2,640	13.2
46	5	5.25	ROUTE NN	RT & LT			2,598	2,640	13.2
46	5.25	5.4	ROUTE NN	RT & LT			1,472	1,584	7.9
47	5.4	5.65	ROUTE NN	RT & LT			2,571	2,640	13.2
47	5.65	5.9	ROUTE NN	RT & LT			2,640	2,640	13.2
48	5.9	6.15	ROUTE NN	RT & LT			2,640	2,640	13.2
48	6.15	6.4	ROUTE NN	RT & LT			2,522	2,640	13.2
49	6.4	6.6	ROUTE NN	RT & LT			2,019	2,112	10.6
49	6.6	6.8	ROUTE NN	RT & LT			2,112	2,112	10.6
50	6.8	7	ROUTE NN	RT & LT			2,112	2,112	10.6
50	7	7.2	ROUTE NN	RT & LT			2,019	2,112	10.6
51	7.2	7.45	ROUTE NN	RT & LT			2,640	2,640	13.2
51	7.45	7.65	ROUTE NN	RT & LT			2,112	2,112	10.6
52	7.65	7.85	ROUTE NN	RT & LT			2,112	2,112	10.6
52	7.85	8.1	ROUTE NN	RT & LT			2,527	2,640	13.2
53	8.1	8.35	ROUTE NN	RT & LT			2,640	2,640	13.2
53	8.35	8.6	ROUTE NN	RT & LT			2,640	2,640	13.2
54	8.6	8.85	ROUTE NN	RT & LT			2,534	2,640	12.3
54	8.85	9.05	ROUTE NN	RT & LT			2,050	2,112	10.6
55	9.05	9.3	ROUTE NN	RT & LT			2,573	2,640	13.2
55	9.3	9.55	ROUTE NN	RT & LT			2,577	2,640	13.2
56	9.55	9.75	ROUTE NN	RT & LT			2,112	2,112	10.6
56	9.75	10	ROUTE NN	RT & LT			2,640	2,640	13.2
57	10	10.239	ROUTE NN	RT & LT	25	1	2,357	2,524	12.6
RTE. NN - SUBTOTAL					109	1	106,877	109,423	546.2

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ROUTE NN
SUMMARY OF QUANTITIES
SHEET 10 OF 13

STEPHEN T. SICHMELLER
NUMBER PE-2024017802
PROFESSIONAL ENGINEER
STATE OF MISSOURI

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN
401 S. 16TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-431-4324 FAX: 314-436-2688 WWW.HORNERSHIFRIN.COM
DISCIPLINE(S): HIGHWAY ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

REMOVAL OF IMPROVEMENTS - SIGNS (RTE. NN - 1 OF 2)							
SHEET	LOG MILE	ROADWAY	LOCATION	DESCRIPTION	POST	SIGN	UNITS
35	0.047	ROUTE NN	LT	CATAWISSA-PACIFIC	1		EA
35	0.126	ROUTE NN	RT	SPEED LIMIT 45		1	EA
35	0.192	ROUTE NN	RT	CURVE LEFT	1	1	EA
35	0.239	ROUTE NN	LT	JUNCTION SIGN-WHITE / MISSOURI LETTERED ROUTE SHIELD O		2	EA
35	0.303	ROUTE NN	LT	CURVE LEFT	1	1	EA
36	0.474	ROUTE NN	RT	MISSOURI LETTERED ROUTE SHIELD NN / ADV LEFT ARROW	1	2	EA
36	0.512	ROUTE NN	RT	STOP (W MANGAN RD)		1	EA
36	0.554	ROUTE NN	LT	SPEED LIMIT 45	1	1	EA
36	0.61	ROUTE NN	RT	MISSOURI LETTERED ROUTE SHIELD NN	1	1	EA
36	0.659	ROUTE NN	LT	MISSOURI LETTERED ROUTE SHIELD NN	1	1	EA
36	0.665	ROUTE NN	RT	MISSOURI LETTERED ROUTE SHIELD NN / LEFT ARROW		2	EA
36	0.677	ROUTE NN	RT	MISSOURI LETTERED ROUTE SHIELD NN / RIGHT ARROW		2	EA
36	0.678	TINY RIDGE WAY	RT	DOUBLE ARROW BOARD	1	1	EA
36	0.691	TINY RIDGE WAY	LT	DOUBLE SIDED CHEVRON		1	EA
36	0.693	TINY RIDGE WAY	LT	MISSOURI LETTERED ROUTE SHIELD NN / UP AND RIGHT ARROW		2	EA
36	0.711	TINY RIDGE WAY	LT	DOUBLE SIDED CHEVRON	1	1	EA
36	0.726	TINY RIDGE WAY	LT	DOUBLE SIDED CHEVRON	1	1	EA
36	0.74	TINY RIDGE WAY	LT	DOUBLE SIDED CHEVRON		1	EA
36	0.757	TINY RIDGE WAY	LT	DOUBLE SIDED CHEVRON		1	EA
36	0.774	TINY RIDGE WAY	LT	DOUBLE SIDED CHEVRON		1	EA
36	0.787	TINY RIDGE WAY	LT	DOUBLE SIDED CHEVRON	1	1	EA
36	0.788	TINY RIDGE WAY	RT	STOP (TWIN OAKS DR)		1	EA
36	0.808	TINY RIDGE WAY	LT	JUNCTION SIGN-WHITE / MISSOURI LETTERED ROUTE SHIELD NN		2	EA
36	0.812	TINY RIDGE WAY	LT	MODOT MAINTENANCE BEGINS		1	EA
36	0.812	TINY RIDGE WAY	RT	MODOT MAINTENANCE ENDS		1	EA
37	0.695	ROUTE NN	RT	MISSOURI LETTERED ROUTE SHIELD NN		1	EA
37	0.722	ROUTE NN	RT	OBJECT MARKER		1	EA
37	0.809	ROUTE NN	LT	STOP AHEAD	1	1	EA
37	0.814	ROUTE NN	RT	SPEED LIMIT 55		1	EA
37	0.842	ROUTE NN	LT	MISSOURI LETTERED ROUTE SHIELD NN / ADV RIGHT ARROW		2	EA
37	0.979	ROUTE NN	RT	STOP (LEROY AVE)		1	EA
38	1.565	ROUTE NN	RT	JUNCTION SIGN-WHITE / MISSOURI LETTERED ROUTE SHIELD AP		2	EA
38	1.592	ROUTE NN	RT	OBJECT MARKER		1	EA
38	1.599	ROUTE NN	LT	OBJECT MARKER		1	EA
39	1.685	ROUTE NN	LT	SPEED LIMIT 55	1	1	EA
39	1.718	ROUTE NN	LT	MISSOURI LETTERED ROUTE SHIELD NN		1	EA
39	1.739	ROUTE NN	RT	MISSOURI LETTERED ROUTE SHIELD NN		1	EA
39	1.819	ROUTE NN	RT	TURN LEFT / ADVISORY SPEED PLAQUE 30 M.P.H.		2	EA
39	1.864	ROUTE NN	LT	MISSOURI LETTERED ROUTE SHIELD AP / JUNCTION SIGN-WHITE		2	EA
39	1.869	ROUTE NN	RT	DOUBLE SIDED CHEVRON		1	EA
39	1.888	ROUTE NN	RT	DOUBLE SIDED CHEVRON	1	1	EA
39	1.908	ROUTE NN	RT	LEFT ARROW BOARD		1	EA
39	1.927	ROUTE NN	RT	DOUBLE SIDED CHEVRON	1	1	EA
39	1.943	ROUTE NN	RT	RIGHT ARROW BOARD		1	EA
39	1.962	ROUTE NN	RT	STOP (ROCK CHURCH RD)		1	EA
39	1.978	ROUTE NN	RT	DOUBLE SIDED CHEVRON		1	EA
39	1.999	ROUTE NN	RT	DOUBLE SIDED CHEVRON	1	1	EA
39	2.005	ROUTE NN	RT	DOUBLE SIDED CHEVRON	1	1	EA
39	2.025	ROUTE NN	RT	SPEED LIMIT 55		1	EA
39	2.084	ROUTE NN	RT	MISSOURI LETTERED ROUTE SHIELD NN		1	EA
41	2.828	ROUTE NN	LT	DOUBLE SIDED CHEVRON		1	EA
41	2.838	ROUTE NN	LT	DOUBLE SIDED CHEVRON		1	EA
41	2.847	ROUTE NN	LT	DOUBLE SIDED CHEVRON		1	EA
41	2.872	ROUTE NN	LT	DOUBLE SIDED CHEVRON		1	EA
41	2.9	ROUTE NN	LT	DOUBLE SIDED CHEVRON		1	EA
41	3.033	ROUTE NN	RT	REVERSE CURVE LEFT / ADVISORY SPEED PLAQUE 35 M.P.H.	1	2	EA
43	3.577	ROUTE NN	RT	OBJECT MARKER		1	EA
43	3.581	ROUTE NN	LT	OBJECT MARKER		1	EA
43	3.663	ROUTE NN	RT	OBJECT MARKER		1	EA
43	3.676	ROUTE NN	LT	OBJECT MARKER		1	EA
44	4.238	ROUTE NN	RT	CURVE RIGHT	1	1	EA
44	4.35	ROUTE NN	LT	CURVE LEFT	1	1	EA
45	4.517	ROUTE NN	LT	DOUBLE SIDED CHEVRON		1	EA
45	4.532	ROUTE NN	LT	DOUBLE SIDED CHEVRON		1	EA
45	4.54	ROUTE NN	LT	LEFT ARROW BOARD		1	EA
45	4.549	ROUTE NN	LT	DOUBLE SIDED CHEVRON		1	EA
45	4.554	ROUTE NN	LT	DOUBLE SIDED CHEVRON		1	EA
45	4.638	ROUTE NN	LT	CURVE LEFT / TURN LEFT / ADVISORY SPEED PLAQUE 30 M.P.H.	1	3	EA
46	5.323	ROUTE NN	RT	LEFT ARROW BOARD		1	EA
46	5.339	ROUTE NN	RT	DOUBLE SIDED CHEVRON		1	EA
47	5.432	ROUTE NN	RT	RIGHT ARROW BOARD		1	EA
47	5.434	ROUTE NN	RT	DOUBLE SIDED CHEVRON		1	EA
47	5.446	ROUTE NN	RT	DOUBLE SIDED CHEVRON		1	EA
47	5.457	ROUTE NN	RT	DOUBLE SIDED CHEVRON		1	EA
47	5.511	ROUTE NN	LT	CURVE RIGHT WITH INTERSECTION LEFT	1	1	EA
47	5.539	ROUTE NN	LT	SPECIAL / ADVISORY SPEED PLAQUE 30 M.P.H.		2	EA
48	6.218	ROUTE NN	LT	SPEED LIMIT 55		1	EA
48	6.285	ROUTE NN	LT	DOUBLE SIDED CHEVRON		1	EA
48	6.301	ROUTE NN	LT	RIGHT ARROW BOARD		1	EA
48	6.316	ROUTE NN	LT	DOUBLE SIDED CHEVRON		1	EA
48	6.324	ROUTE NN	LT	DOUBLE SIDED CHEVRON		1	EA

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ROUTE NN
SUMMARY OF QUANTITIES
SHEET 11 OF 13

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-431-4343 | FAX: 314-436-2686 | WWW.HORNERSHIFRIN.COM
DIRECT: 314-643-3506 | SICHMELLER@HORNERSHIFRIN.COM
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

REMOVAL OF IMPROVEMENTS - SIGNS (RTE. NN - 2 OF 2)							
SHEET	LOG MILE	ROADWAY	LOCATION	DESCRIPTION	POST	SIGN	UNITS
48	6.335	ROUTE NN	LT	DOUBLE SIDED CHEVRON		1	EA
48	6.363	ROUTE NN	LT	DOUBLE SIDED CHEVRON		1	EA
48	6.375	ROUTE NN	LT	LEFT ARROW BOARD		1	EA
48	6.395	ROUTE NN	LT	DOUBLE SIDED CHEVRON		1	EA
50	6.981	ROUTE NN	RT	TURN LEFT / ADVISORY SPEED PLAQUE 30 M.P.H.		1	EA
50	6.999	ROUTE NN	LT	CURVE LEFT / ADVISORY SPEED PLAQUE 35 M.P.H.		1	EA
50	7.004	ROUTE NN	RT	DOUBLE SIDED CHEVRON / YELLOW POST DELINEATOR		1	EA
50	7.022	ROUTE NN	RT	DOUBLE SIDED CHEVRON / YELLOW POST DELINEATOR		1	EA
50	7.035	ROUTE NN	RT	LEFT ARROW BOARD		1	EA
50	7.057	ROUTE NN	RT	DOUBLE SIDED CHEVRON / YELLOW POST DELINEATOR		1	EA
50	7.063	ROUTE NN	RT	DOUBLE SIDED CHEVRON	1	1	EA
50	7.088	ROUTE NN	RT	DOUBLE SIDED CHEVRON	1	1	EA
50	7.096	ROUTE NN	RT	DOUBLE SIDED CHEVRON	1	1	EA
50	7.125	ROUTE NN	RT	LEFT ARROW BOARD	1	1	EA
50	7.142	ROUTE NN	RT	DOUBLE SIDED CHEVRON / YELLOW POST DELINEATOR		1	EA
50	7.148	ROUTE NN	RT	MISSOURI LETTERED ROUTE SHIELD NN		1	EA
50	7.16	ROUTE NN	RT	DOUBLE SIDED CHEVRON / YELLOW POST DELINEATOR		1	EA
51	7.302	ROUTE NN	LT	MISSOURI LETTERED ROUTE SHIELD NN		1	EA
51	7.374	ROUTE NN	LT	SPEED LIMIT 45	1	1	EA
52	7.978	ROUTE NN	RT	DOUBLE SIDED CHEVRON		1	EA
52	8.006	ROUTE NN	LT	STOP (DUTCH CREEK RD)	1	1	EA
52	8.026	ROUTE NN	LT	DOUBLE SIDED CHEVRON		1	EA
52	8.035	ROUTE NN	LT	LEFT ARROW BOARD		1	EA
52	8.046	ROUTE NN	LT	DOUBLE SIDED CHEVRON		1	EA
52	8.057	ROUTE NN	LT	DOUBLE SIDED CHEVRON		1	EA
53	8.512	ROUTE NN	RT	CURVE LEFT & ADVISORY SPEED PLAQUE 40 M.P.H.	1	2	EA
54	8.709	ROUTE NN	LT	STOP (LITTLE DUTCH CREEK RD)	1	1	EA
54	8.801	ROUTE NN	RT	REVERSE CURVE RIGHT / ADVISORY SPEED PLAQUE 40 M.P.H.	1	1	EA
54	8.975	ROUTE NN	RT	SCHOOL BUS STOP AHEAD		1	EA
54	9.015	ROUTE NN	RT	REVERSE TURN RIGHT / ADVISORY SPEED PLAQUE 30 M.P.H.		1	EA
54	9.045	ROUTE NN	RT	CURVE RIGHT	1	1	EA
54	9.049	ROUTE NN	LT	CURVE RIGHT WITH INTERSECTION LEFT		1	EA
55	9.097	ROUTE NN	LT	DOUBLE SIDED CHEVRON	1	1	EA
55	9.112	ROUTE NN	LT	RIGHT ARROW BOARD	1	1	EA
55	9.127	ROUTE NN	LT	STOP (CEDAR DR)		1	EA
55	9.135	ROUTE NN	LT	DOUBLE SIDED CHEVRON / OBJECT MARKER / YELLOW POST DELINEATOR / WHITE POST DELINEATOR	1	4	EA
55	9.143	ROUTE NN	LT	LEFT ARROW BOARD	1	1	EA
55	9.158	ROUTE NN	LT	DOUBLE SIDED CHEVRON	1	1	EA
55	9.212	ROUTE NN	RT	DOUBLE SIDED CHEVRON	1	1	EA
55	9.228	ROUTE NN	RT	DOUBLE SIDED CHEVRON	1	1	EA
55	9.243	ROUTE NN	RT	DOUBLE SIDED CHEVRON	1	1	EA
55	9.262	ROUTE NN	LT	REVERSE TURN LEFT / ADVISORY SPEED PLAQUE 30 M.P.H.	1	1	EA
55	9.269	ROUTE NN	RT	REVERSE CURVE RIGHT / ADVISORY SPEED PLAQUE 35 M.P.H.	1	2	EA
55	9.333	ROUTE NN	LT	SIDEROAD RIGHT		1	EA
56	9.683	ROUTE NN	RT	DOUBLE SIDED CHEVRON		1	EA
57	10.056	ROUTE NN	RT	JUNCTION SIGN-WHITE / MO 30 / ROUTE B	1	3	EA
57	10.095	ROUTE NN	RT	SIGNAL AHEAD	1	1	EA
57	10.147	ROUTE NN	LT	SPEED LIMIT 45	1	1	EA
57	10.186	ROUTE NN	RT	HILLSBORO-CEDAR HILL-DITTMER		1	EA
57	10.196	ROUTE NN	RT	MISSOURI LETTERED ROUTE SHIELD NN		1	EA
57	10.218	ROUTE NN	RT	STRAIGHT ARROW / TWO WAY ARROW / MO 30 / ROUTE B		4	EA

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ROUTE NN
SUMMARY OF QUANTITIES
SHEET 12 OF 13

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4361 FAX: 314-436-2360 WWW.HORNERSHIFRIN.COM
DESIGN FIRM: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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						YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00	25	400			11	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						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00						MERGE (LEFT)
WO4-1aR	48X48	16.00						MERGE (RIGHT)
WO5-1	48X48	16.00						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	24	384			36	UNEVEN LANES
WO8-12	48X48	16.00	24	384			35	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)
W012-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	15	240			2	ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00						DETOUR AHEAD
WO20-3	48X48	16.00						ROAD CLOSED AHEAD
WO20-4	48X48	16.00	10	160			7	ONE LANE ROAD AHEAD
WO20-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00	25	400			8	FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00	6	96			21	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	6	13.14				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	6	60			1	ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00	6	48			26	END ROAD WORK
GO20-4	36X18	4.50	6	27			55	PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75	12	105			58	PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00	12	72			54	WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00						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						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00	8	96			4	SPEED LIMIT 55(2EA),50(2EA), 45(2EA),40(2EA)
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						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00	6	72			46	DO NOT PASS
R4-2	36X48	12.00	6	72			46A	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						SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45^ ARROW)
R11-2	48X30	10.00						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	6	120			53	FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00	4	48			56	POINT OF PRESENCE
CONST-5	96X48	32.00						POINT OF PRESENCE
CONST-8	48X36	12.00	4	48			57	WORK ZONE NO PHONE ZONE

616-10.05 CONSTRUCTION SIGNS	TOTAL
	2845

616-10.10 RELOCATED SIGNS	TOTAL
	**

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	1*	TRUCK MOUNTED ATTENUATOR (TMA)
6161008	2	ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	198	CHANNELIZER (TRIM LINE)
6161030		TYPE III MOVEABLE BARRICADE
6161033		DIRECTION INDICATOR BARRICADE
6161040	3	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	3*	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		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

NOTES:

ALL TRAFFIC ONTROL 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 SUJECT TO CHANGE BASED ON THE FIELD CONDITIONS AND CONTRACTOR'S TRAFFIC CONTROL OPERATIONS.

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

CMS LOCATION TO BE DETERMINED BY THE ENGINEER.

* ITEMS NOT INCLUDED IN MISC. LUMP SUM TEMPORARY TRAFFIC CONTROL - 1 LUMP SUM

** NO DIRECT PAYMENT WILL BE MADE FOR RELOCATION OF CONSTRUCTION SIGNS AND DEVICES.

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TRAFFIC CONTROL
SUMMARY OF QUANTITIES
SHEET 13 OF 13

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED 8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	3

COUNTY FRANK./JEFF.

JOB NO. JSL0034

CONTRACT ID.

PROJECT NO.

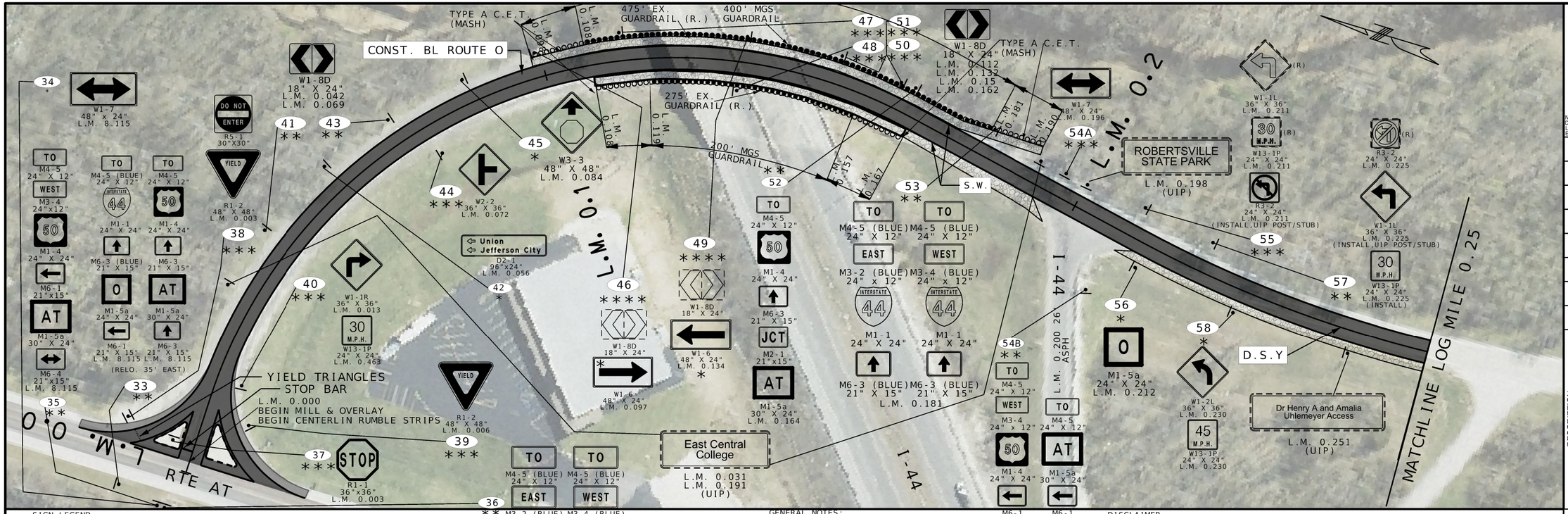
BRIDGE NO.

DESCRIPTION

DATE

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

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024



SIGN LEGEND

* INSTALL NEW SIGN, POST & STUB
** REMOVE & REPLACE SIGN, POST & STUB
*** REMOVE AND REPLACE SIGN ONLY
**** REMOVE SIGN, POST & STUB

PAVEMENT LEGEND

- MILL AND RESURFACE 2" BP-1LT
- MILL AND RESURFACE 1.5" BP-2
- GRAVEL, CRUSHED STONE AND CHAT 3" DEPTH
- HIGH FRICTION SURFACE TREATMENT

STRIPING LEGEND

S.W.	4" SOLID WHITE
D.S.Y.	4" DOUBLE SOLID YELLOW
STOP BAR	24" WHITE STOP BAR

GENERAL NOTES:

1. ANY ITEMS OF WORK BEYOND THE PROJECT LIMITS ARE INCIDENTAL TO, AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
2. REFER TO MoDOT STANDARD PLAN 903.02 FOR SIGN CONSTRUCTION DETAILS AND STANDARD PLAN 903.03 FOR MOUNTING AND INSTALLATION DETAILS.
3. PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE (MUTCD).
4. ALL LINEAR PAVEMENT MARKINGS SHALL BE STANDARD WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS.
5. ALL ARROWS, WORDS AND SYMBOLS SHALL BE WHITE PREFORMED THERMOPLASTIC UNLESS OTHERWISE SPCIFIED.

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ENTRANCE LEGEND
C.E. COMMERCIAL LEGEND
P.E. PRIVATE ENTRANCE
F.E. FIELD ENTRANCE

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
PROFESSIONAL ENGINEER
DATE: 202401802

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 202401802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	4

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6996 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

ROUTE O
PLAN SHEET 1 OF 25

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STOP BAR 24" WHITE STOP BAR

PAVEMENT LEGEND
MILL AND RESURFACE 2" BP-1LT
MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

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C.E. COMMERCIAL LEGEND
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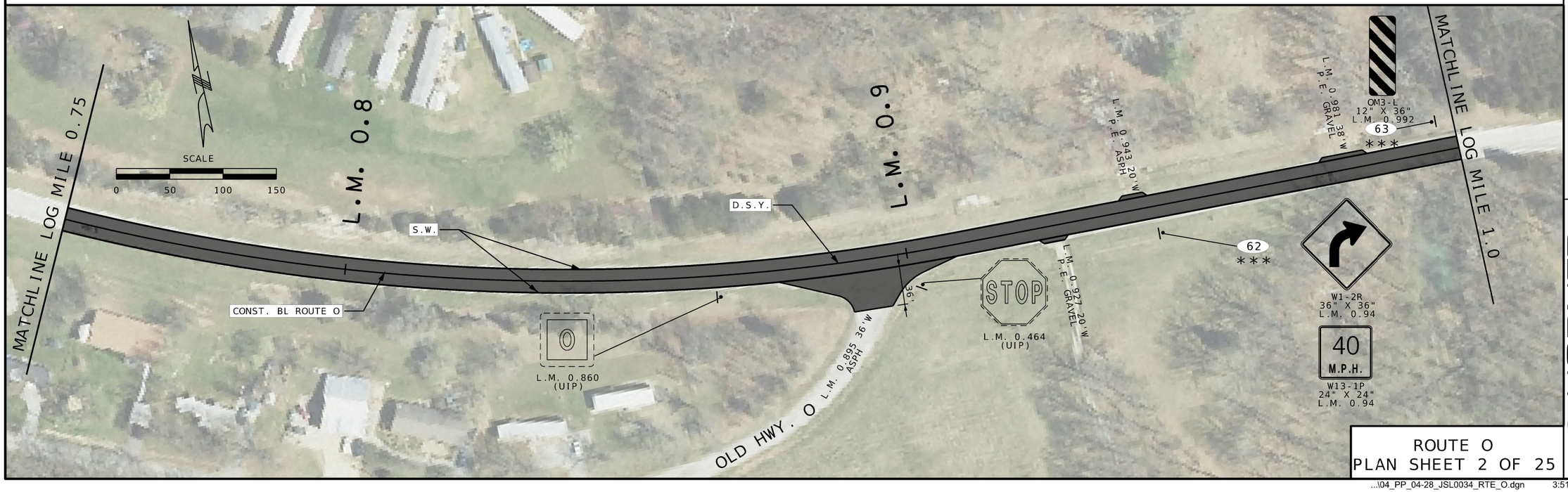

ROUTE O
PLAN SHEET 2 OF 25

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER: 2024017802
PROFESSIONAL ENGINEER
DATE: 2024017802

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED: 8/8/2024
ROUTE: O/F/NN
STATE: MO
DISTRICT: SL
SHEET NO.: 5
COUNTY: FRANK./JEFF.
JOB NO.: JSL0034
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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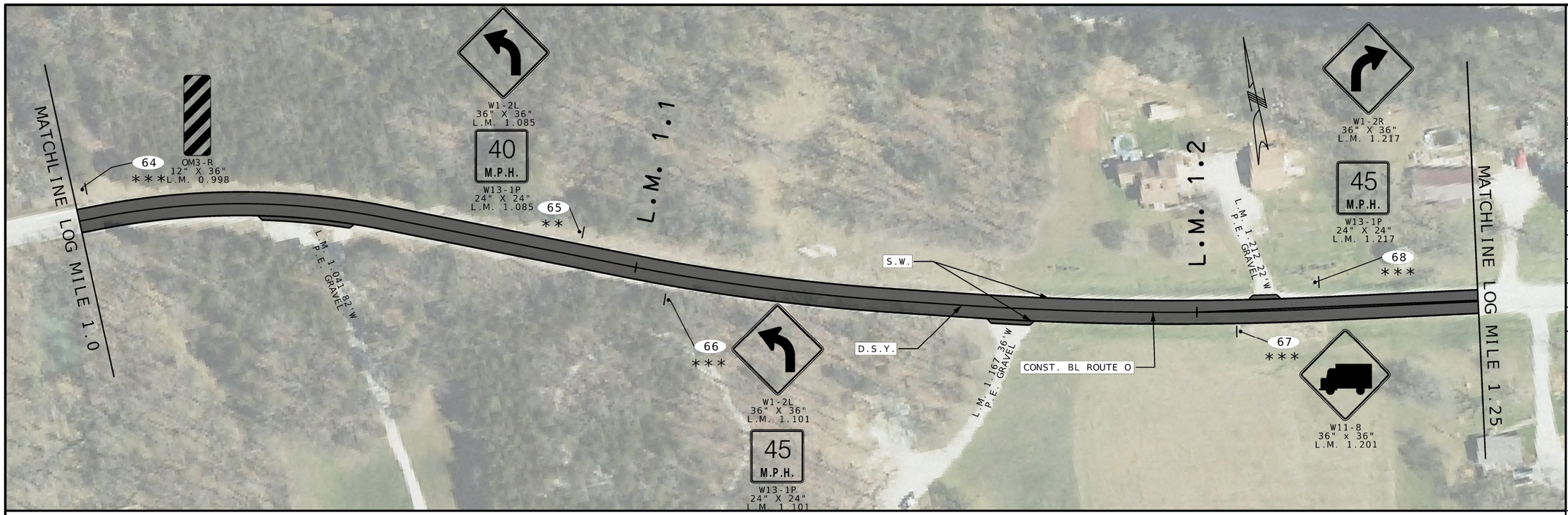

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D.S.Y. 4" DOUBLE SOLID YELLOW
STOP BAR 24" WHITE STOP BAR

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MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

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C.E. COMMERCIAL LEGEND
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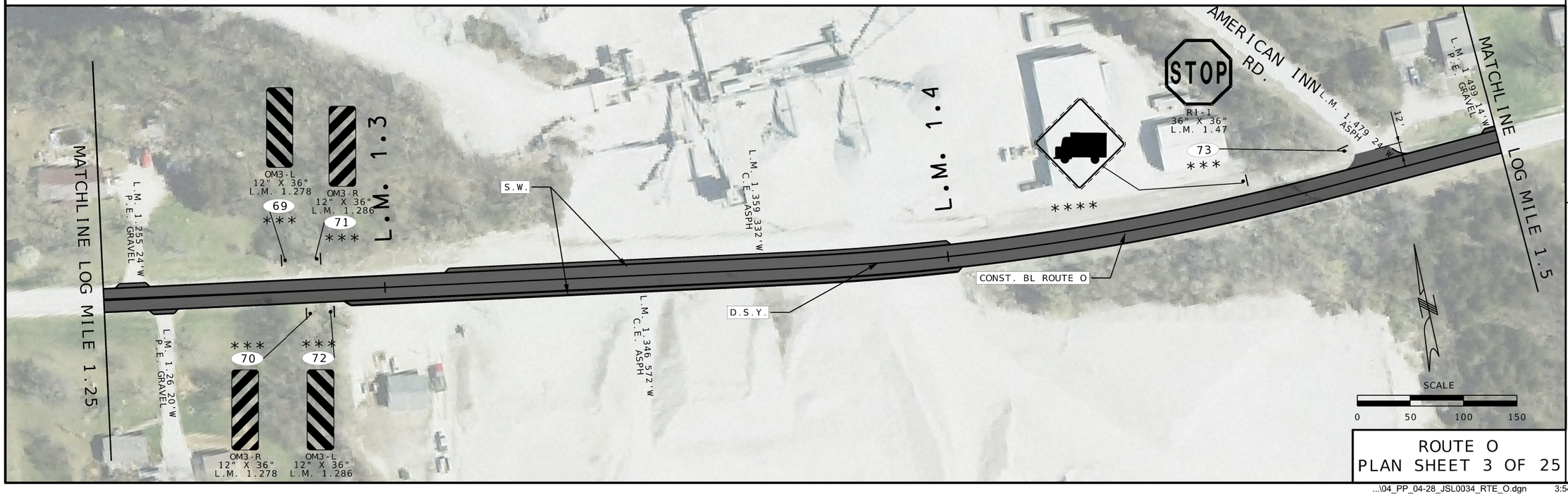

ROUTE O
PLAN SHEET 3 OF 25

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
DATE: 2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	6

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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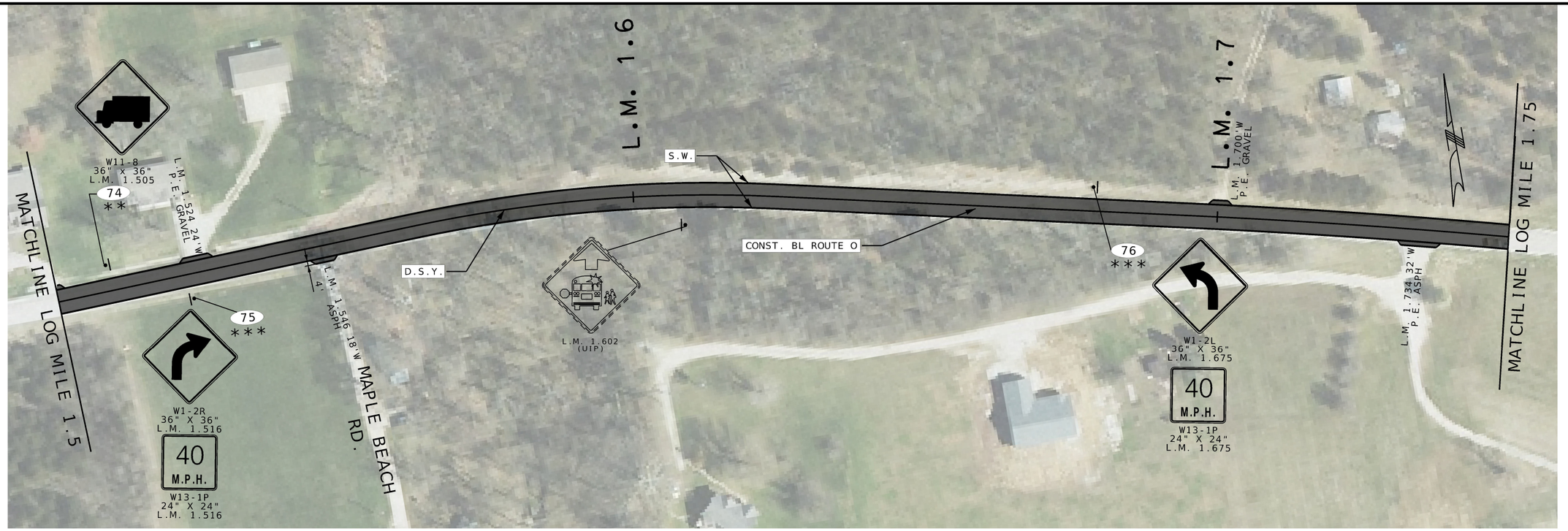

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MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

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C.E. COMMERCIAL LEGEND
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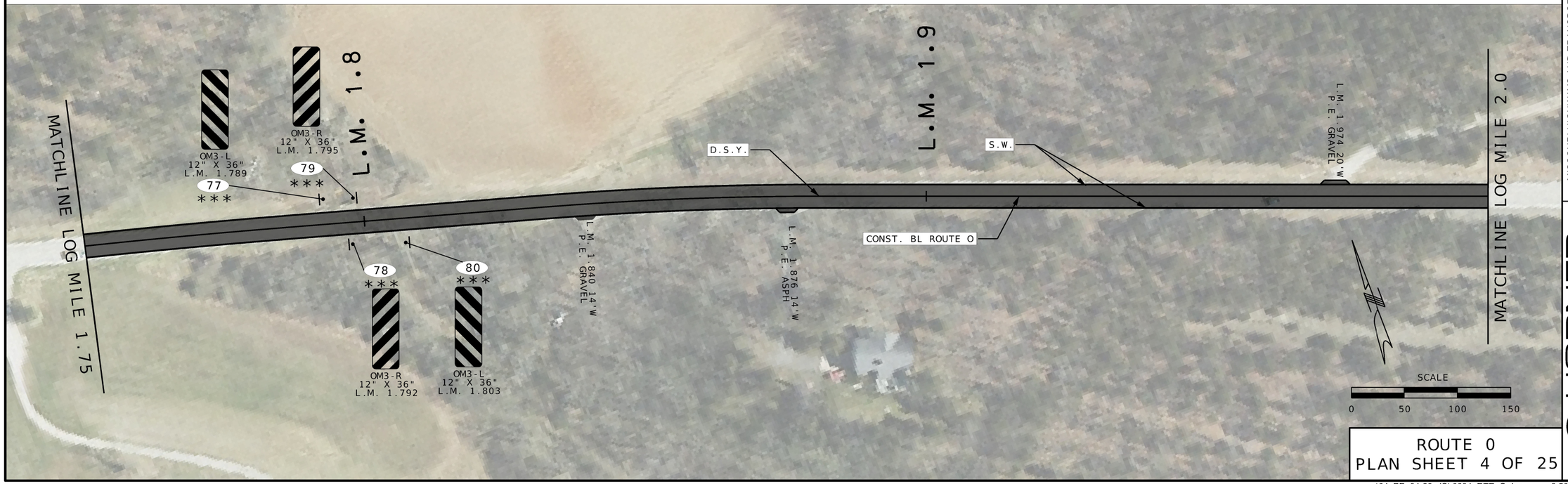

ROUTE 0
PLAN SHEET 4 OF 25

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	7

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

HORNER SHIFRIN

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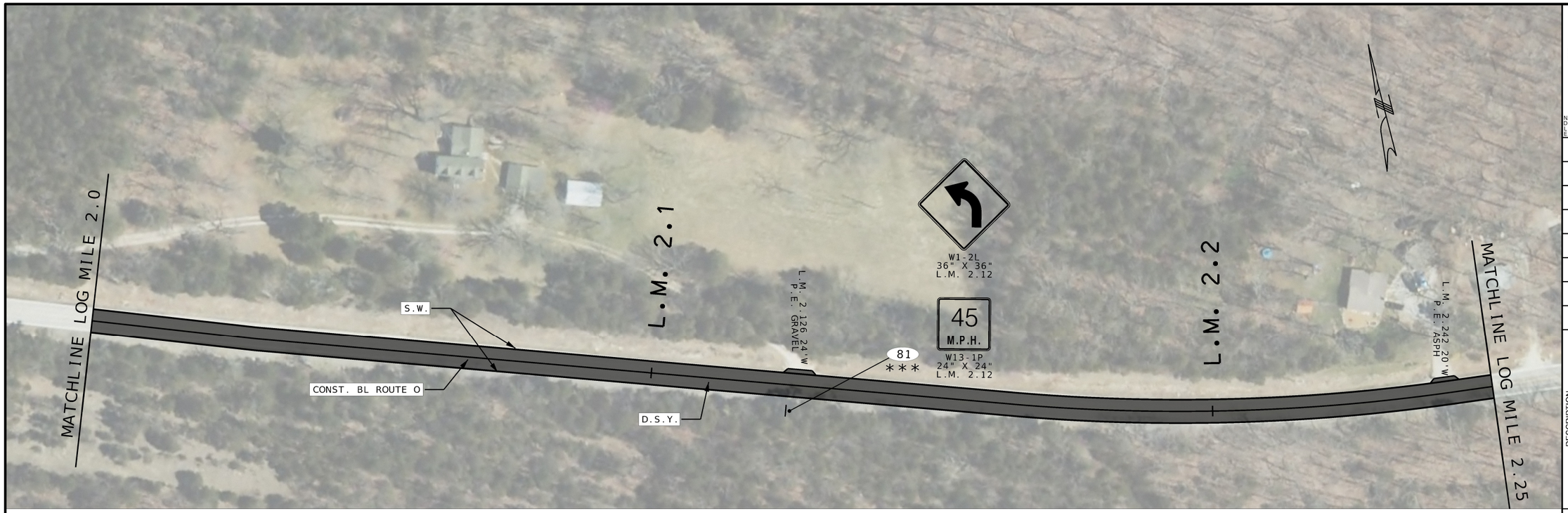

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D.S.Y. 4" DOUBLE SOLID YELLOW
STOP BAR 24" WHITE STOP BAR

PAVEMENT LEGEND
MILL AND RESURFACE 2" BP-1LT
MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

ENTRANCE LEGEND
C.E. COMMERCIAL LEGEND
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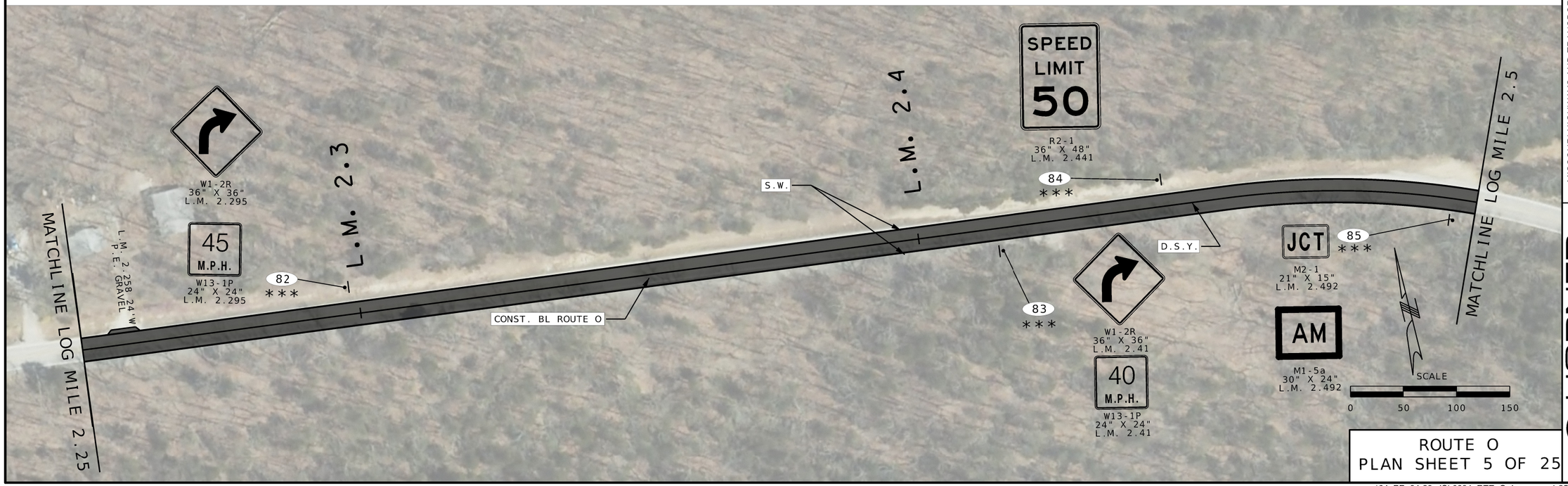

ROUTE O
PLAN SHEET 5 OF 25

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED	
8/8/2024	
ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	8
COUNTY	
FRANK./JEFF.	
JOB NO.	
JSL0034	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

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EXPIRATION DATE: DECEMBER 31, 2024

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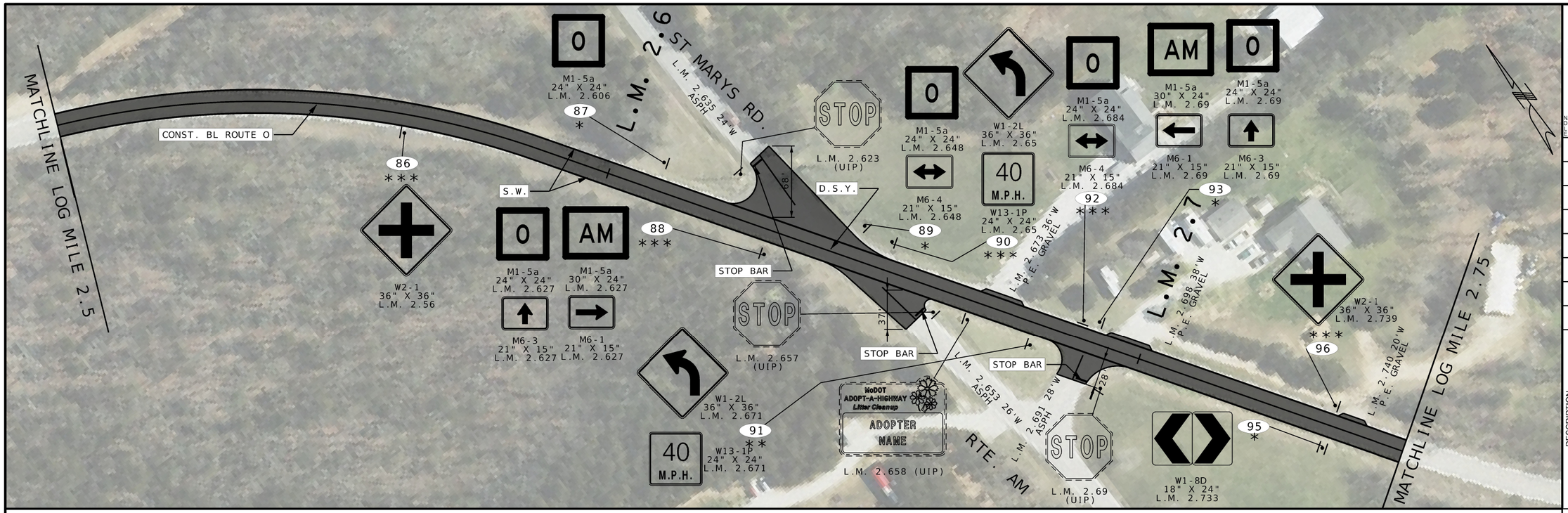

SIGN LEGEND
* INSTALL NEW SIGN, POST & STUB
** REMOVE & REPLACE SIGN, POST & STUB
*** REMOVE AND REPLACE SIGN ONLY
**** REMOVE SIGN, POST & STUB

STRIPING LEGEND
S.W. 4" SOLID WHITE
D.S.Y. 4" DOUBLE SOLID YELLOW
STOP BAR 24" WHITE STOP BAR

PAVEMENT LEGEND
MILL AND RESURFACE 2" BP-1LT
MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

ENTRANCE LEGEND
C.E. COMMERCIAL LEGEND
P.E. PRIVATE ENTRANCE
F.E. FIELD ENTRANCE

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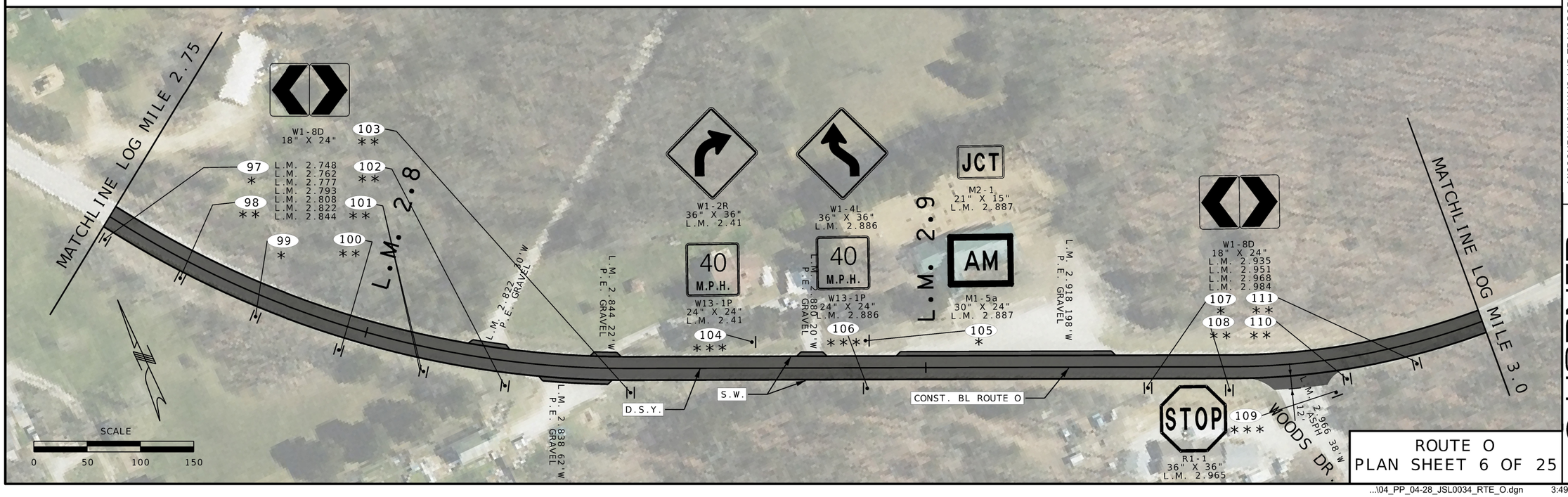


ROUTE O
PLAN SHEET 6 OF 25

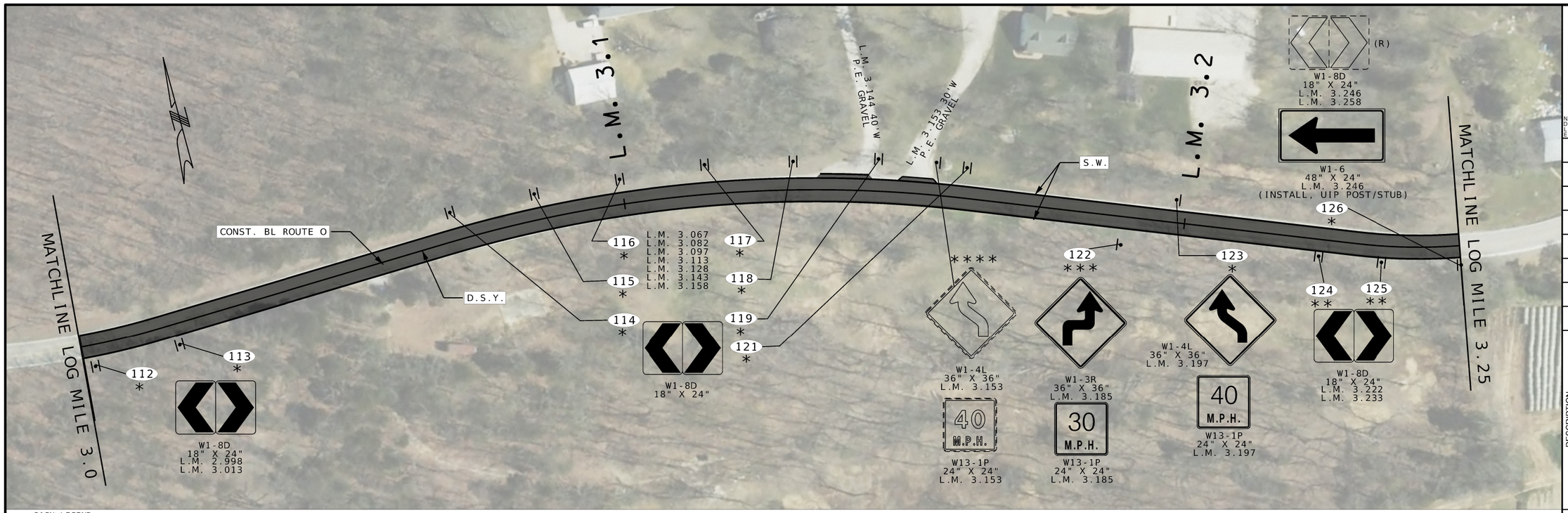
NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

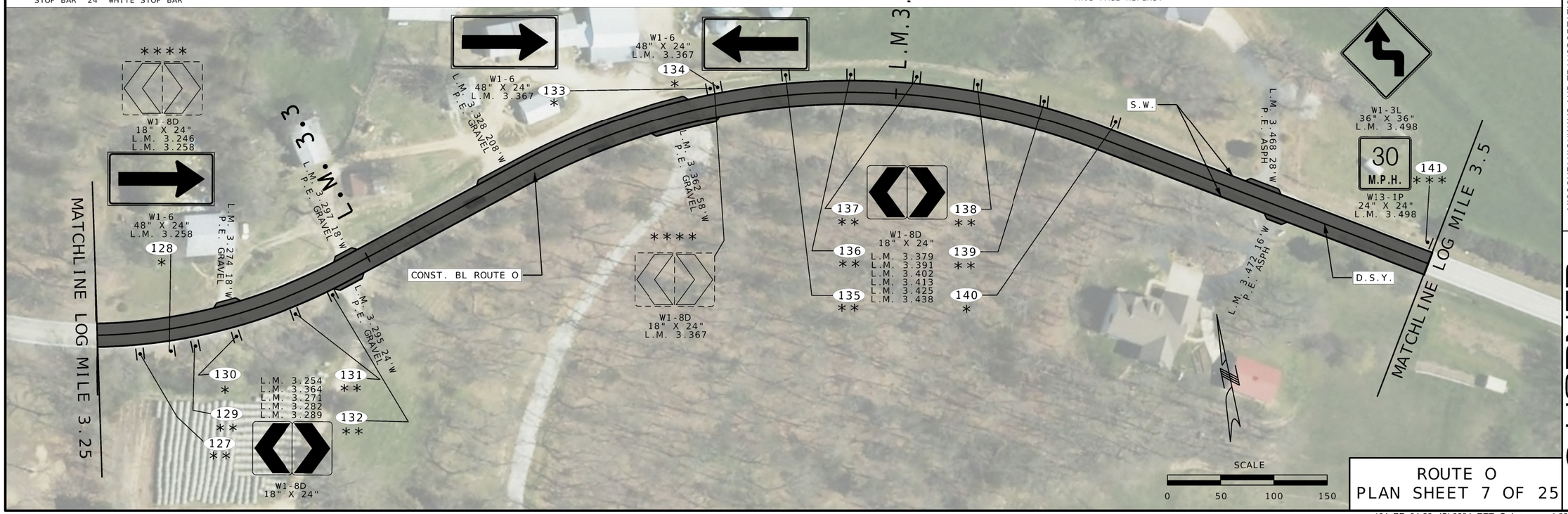
DATE PREPARED: 8/8/2024
ROUTE: O/F/NN
STATE: MO
DISTRICT: SL
SHEET NO.: 9
COUNTY: FRANK./JEFF.
JOB NO.: JSL0034
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

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

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-4666 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024





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MILL AND RESURFACE 2" BP-1LT
MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

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STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER 2024017802
PROFESSIONAL ENGINEER
Date: 2024.08.08

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	10

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

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CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

ROUTE O
PLAN SHEET 7 OF 25

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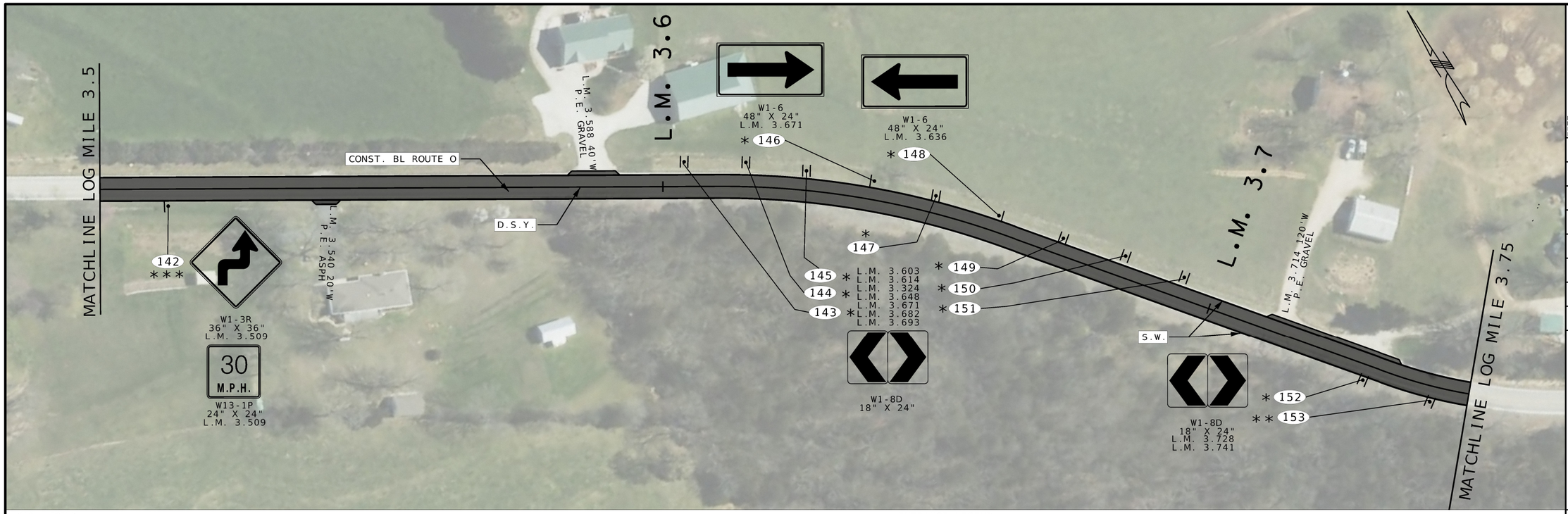

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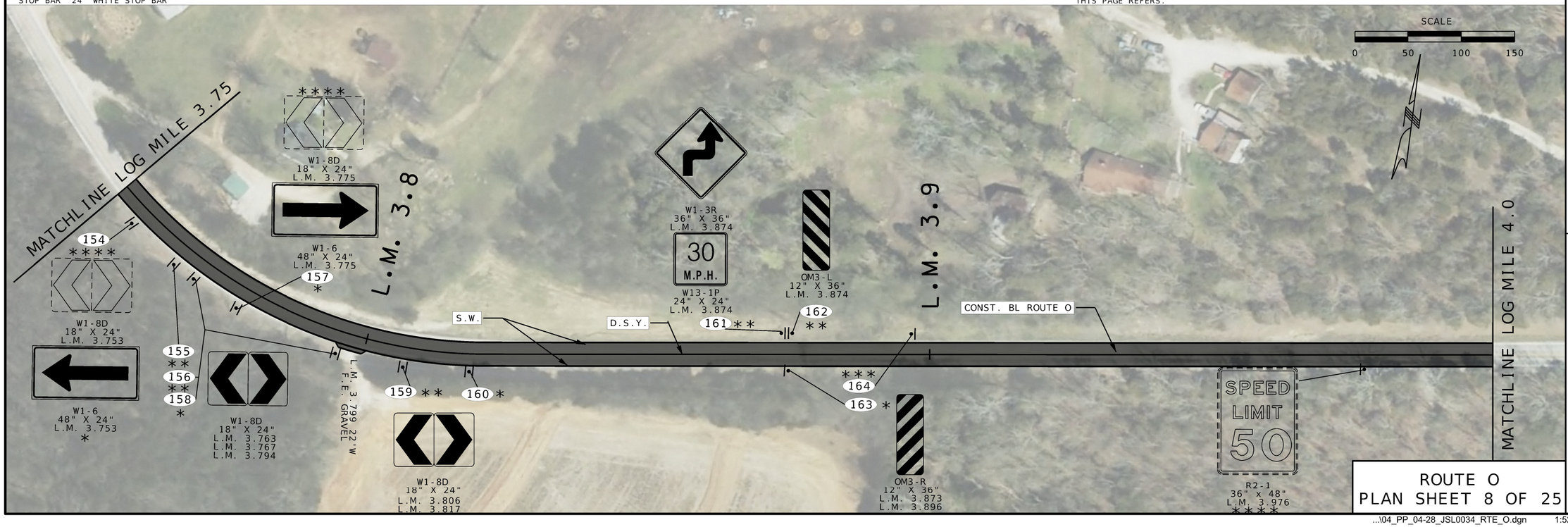

ROUTE O
PLAN SHEET 8 OF 25

STEPHEN T. SICHMELLER NUMBER PE-2024017802 PROFESSIONAL ENGINEER STATE OF MISSOURI

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED: 8/8/2024
ROUTE: O/F/NN
STATE: MO
DISTRICT: SL
SHEET NO.: 11
COUNTY: FRANK./JEFF.
JOB NO.: JSL0034
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)

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DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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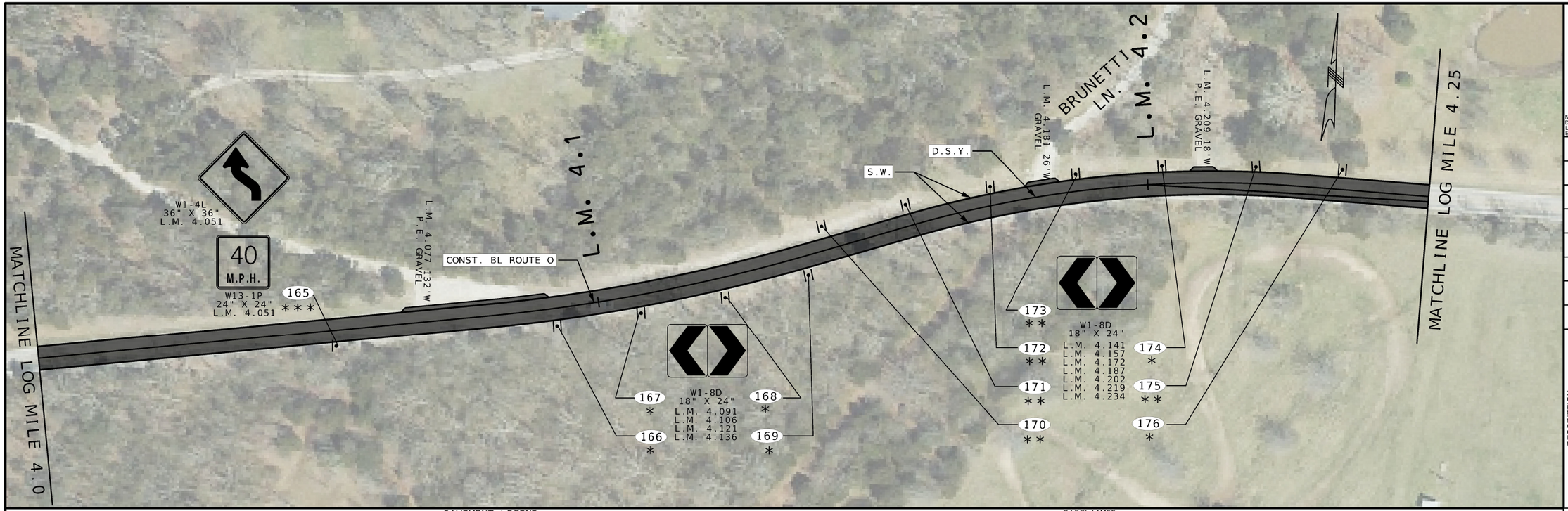

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MILL AND RESURFACE 1.5" BP-2
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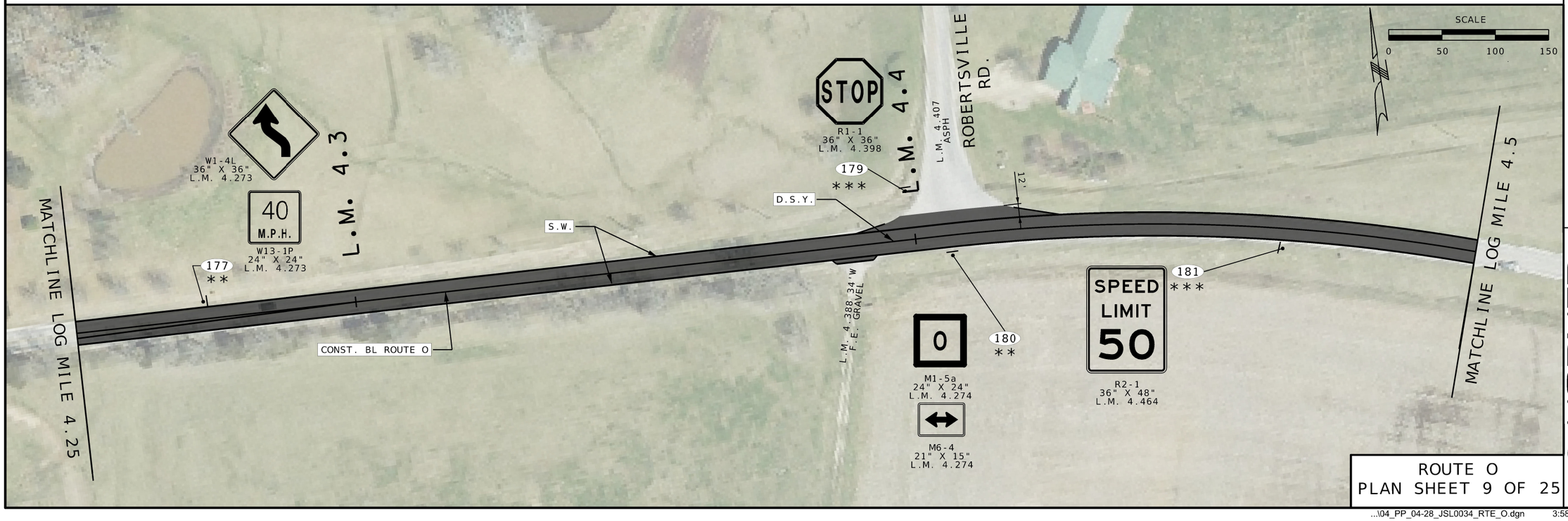


ROUTE O
PLAN SHEET 9 OF 25

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
PROFESSIONAL ENGINEER
DATE: 20240718

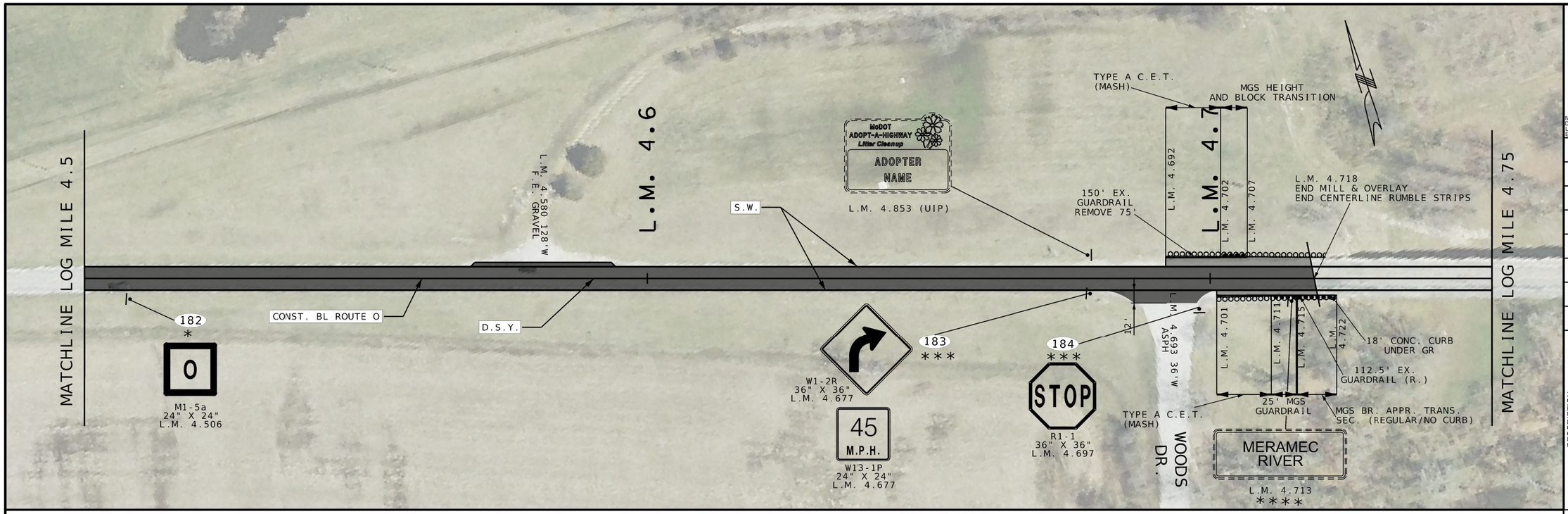
NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED: 8/8/2024
ROUTE: O/F/NN
STATE: MO
DISTRICT: SL
SHEET NO.: 12
COUNTY: FRANK./JEFF.
JOB NO.: JSL0034
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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024



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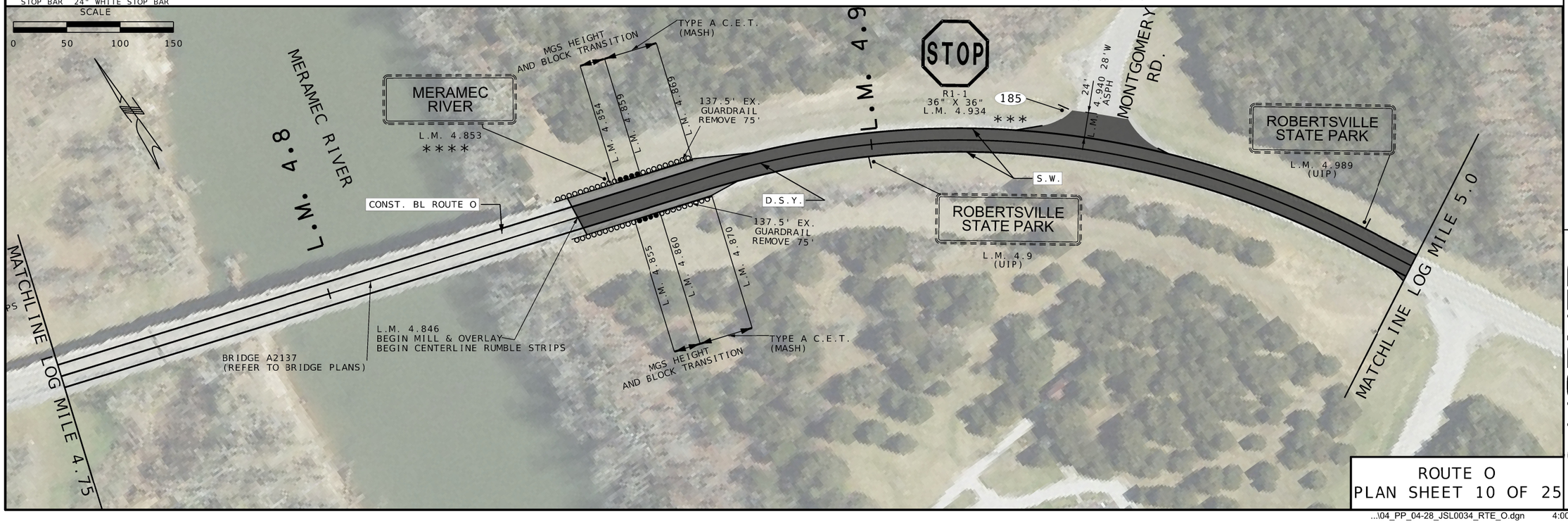

ROUTE O
PLAN SHEET 10 OF 25

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STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
DATE: 20240718
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	13

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
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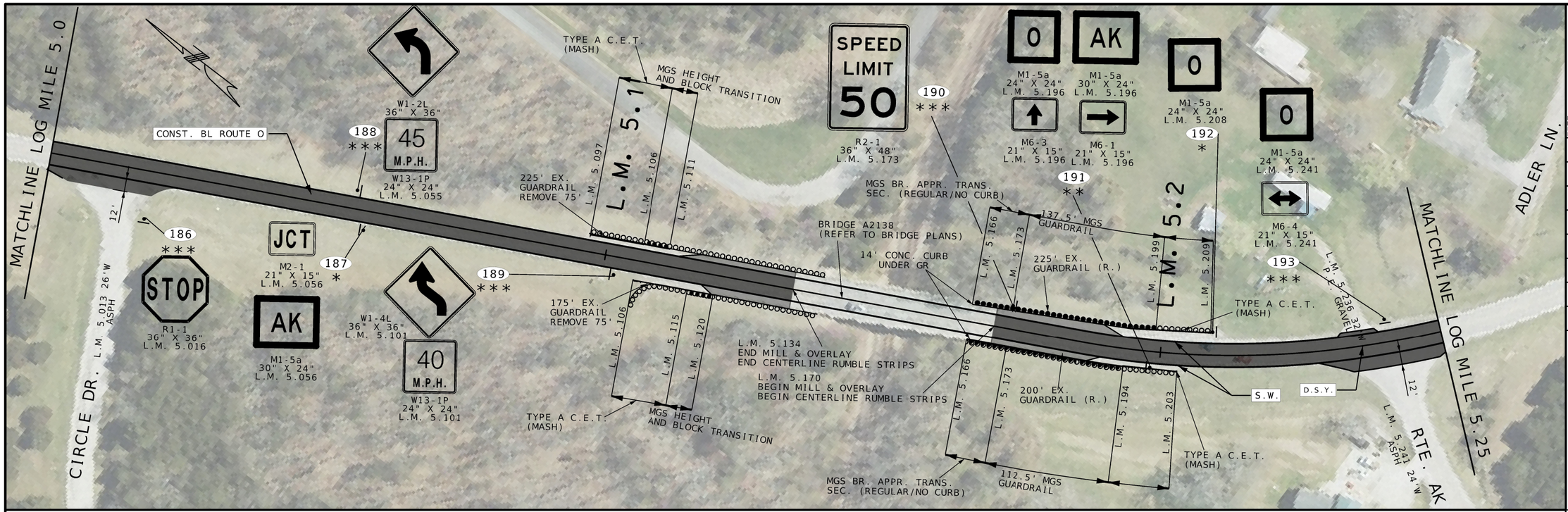
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024



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MILL AND RESURFACE 1.5" BP-2
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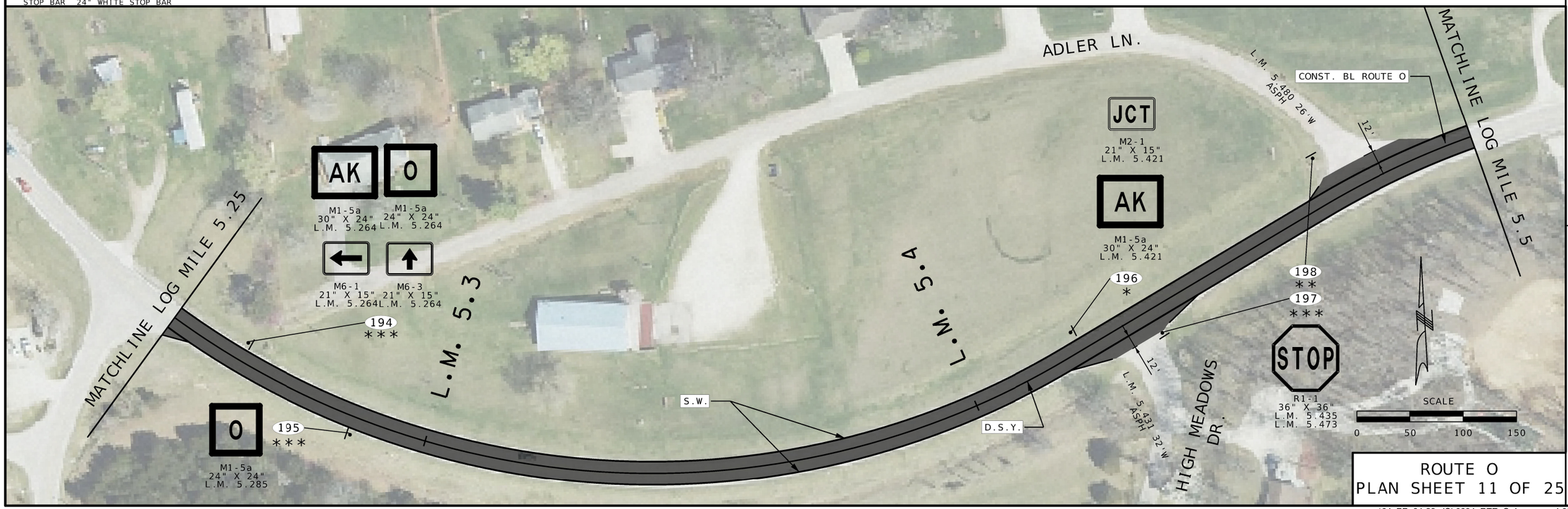

ROUTE O
PLAN SHEET 11 OF 25

...\04_PP_04-28_JSL0034_RTE_O.dgn 4:02:17 PM 8/8/2024

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
DATE: 2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	14

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
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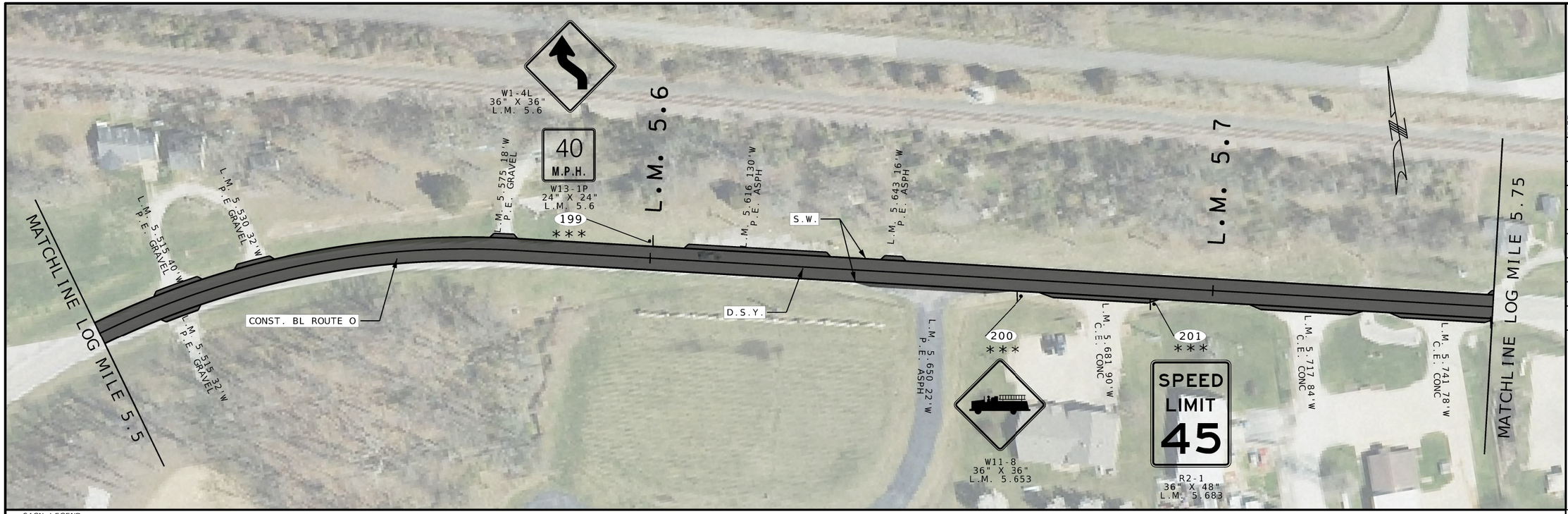
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024



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MILL AND RESURFACE 1.5" BP-2
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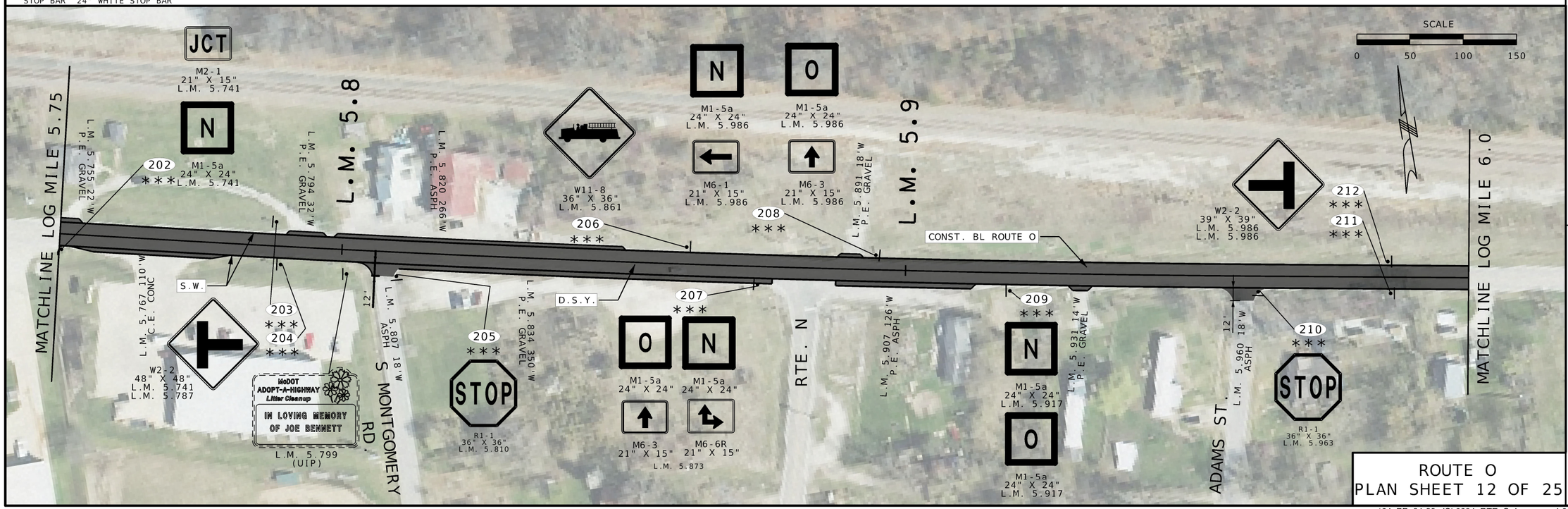

ROUTE O
PLAN SHEET 12 OF 25

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STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
DATE: 2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	15

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

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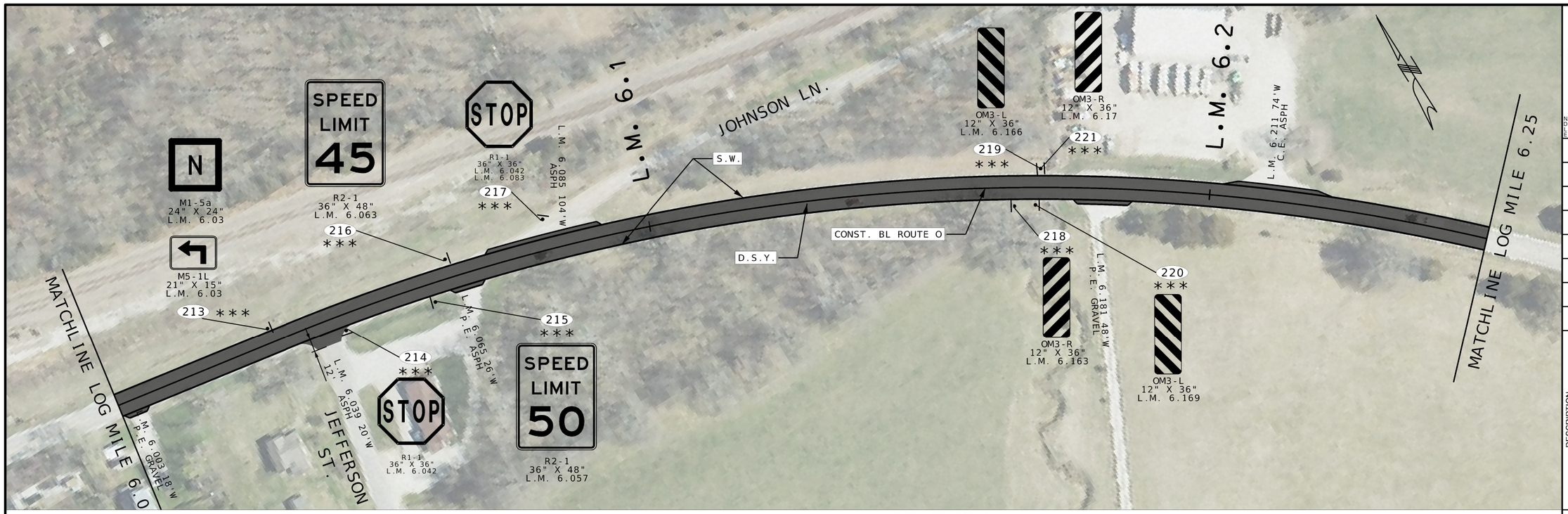

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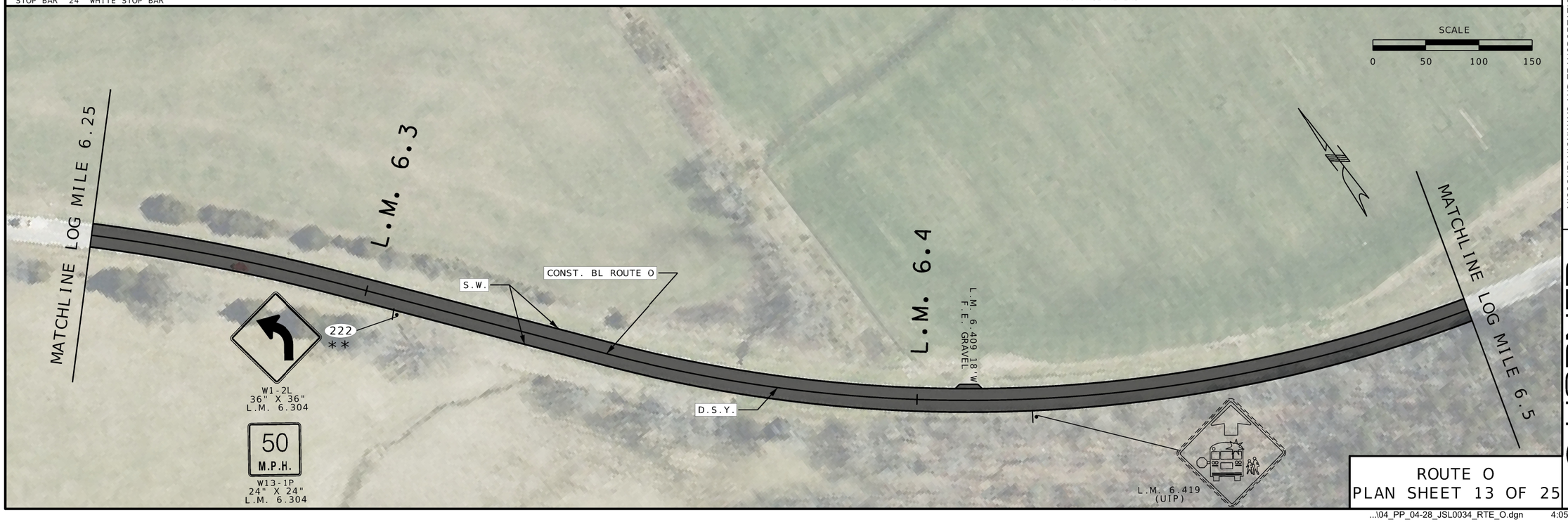

ROUTE O
PLAN SHEET 13 OF 25

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
DATE: 2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	16

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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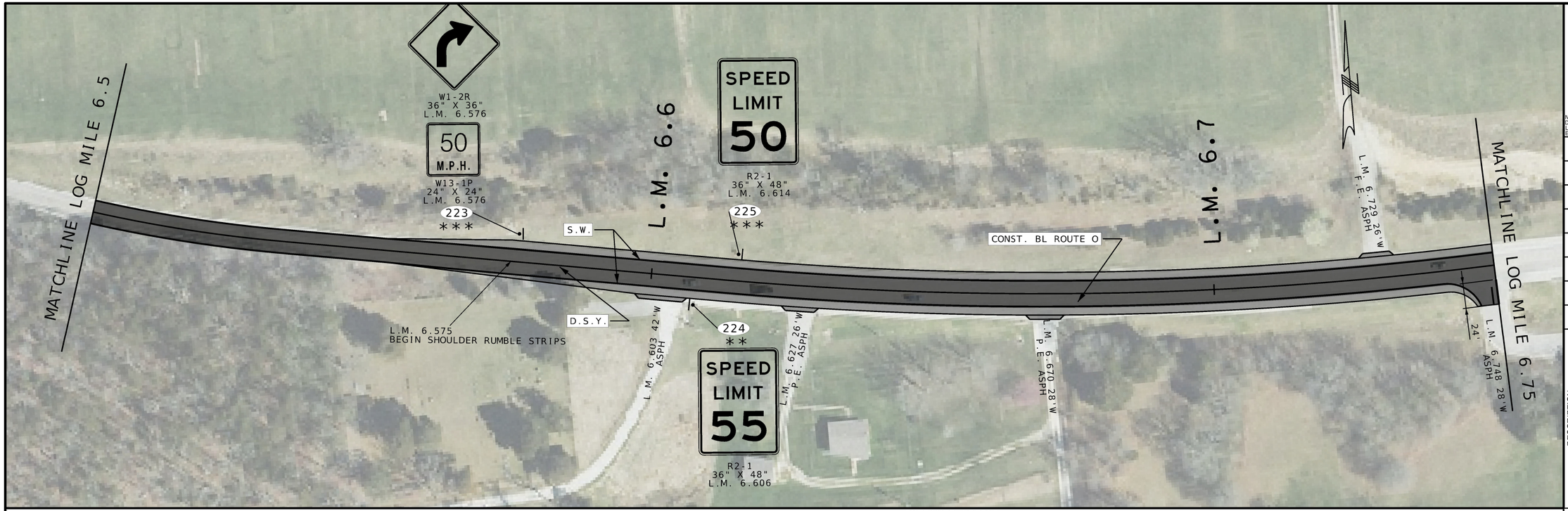

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HIGH FRICTION SURFACE TREATMENT

ENTRANCE LEGEND
C.E. COMMERCIAL LEGEND
P.E. PRIVATE ENTRANCE
F.E. FIELD ENTRANCE

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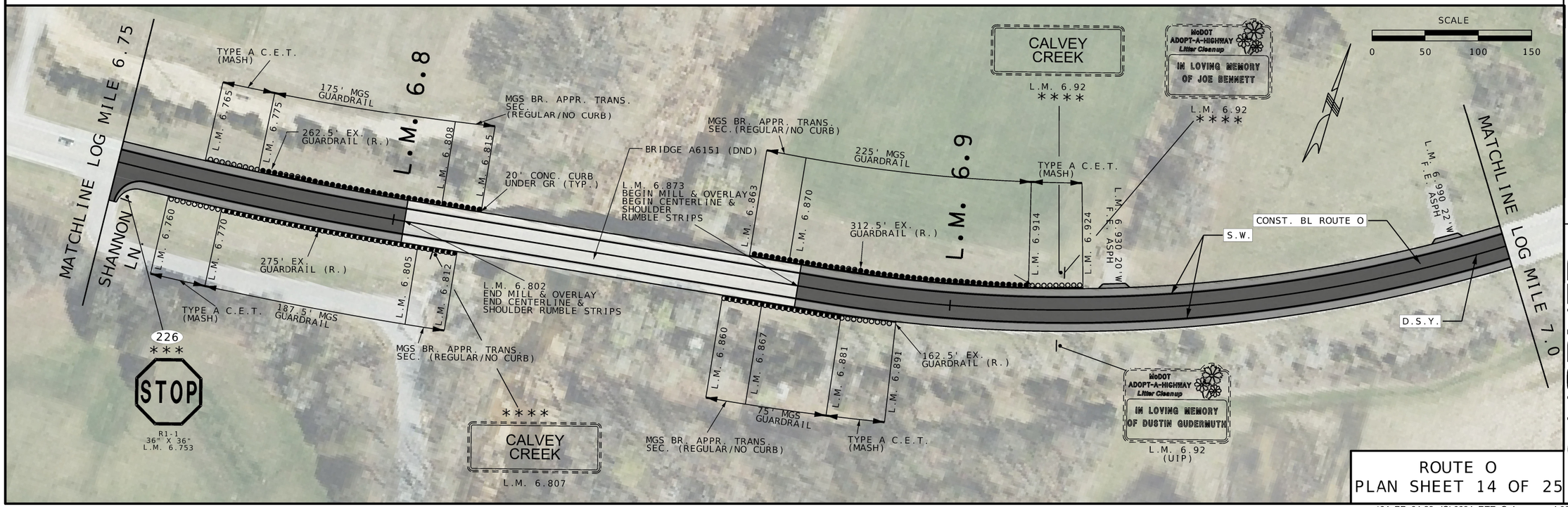

ROUTE O
PLAN SHEET 14 OF 25

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
DATE: 20240718
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED: 8/8/2024
ROUTE: O/F/NN
STATE: MO
DISTRICT: SL
SHEET NO.: 17
COUNTY: FRANK./JEFF.
JOB NO.: JSL0034
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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6996 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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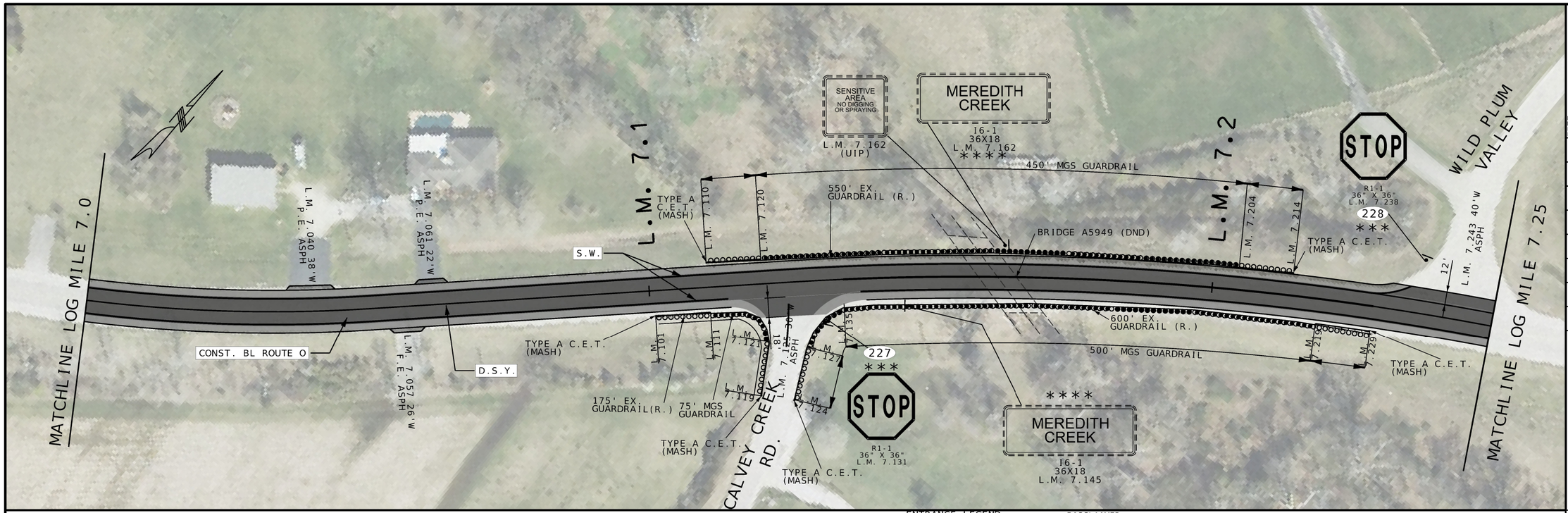

SIGN LEGEND
* INSTALL NEW SIGN, POST & STUB
** REMOVE & REPLACE SIGN, POST & STUB
*** REMOVE AND REPLACE SIGN ONLY
**** REMOVE SIGN, POST & STUB

STRIPING LEGEND
S.W. 4" SOLID WHITE
D.S.Y. 4" DOUBLE SOLID YELLOW
STOP BAR 24" WHITE STOP BAR

PAVEMENT LEGEND
MILL AND RESURFACE 2" BP-1LT
MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

ENTRANCE LEGEND
C.E. COMMERCIAL LEGEND
P.E. PRIVATE ENTRANCE
F.E. FIELD ENTRANCE

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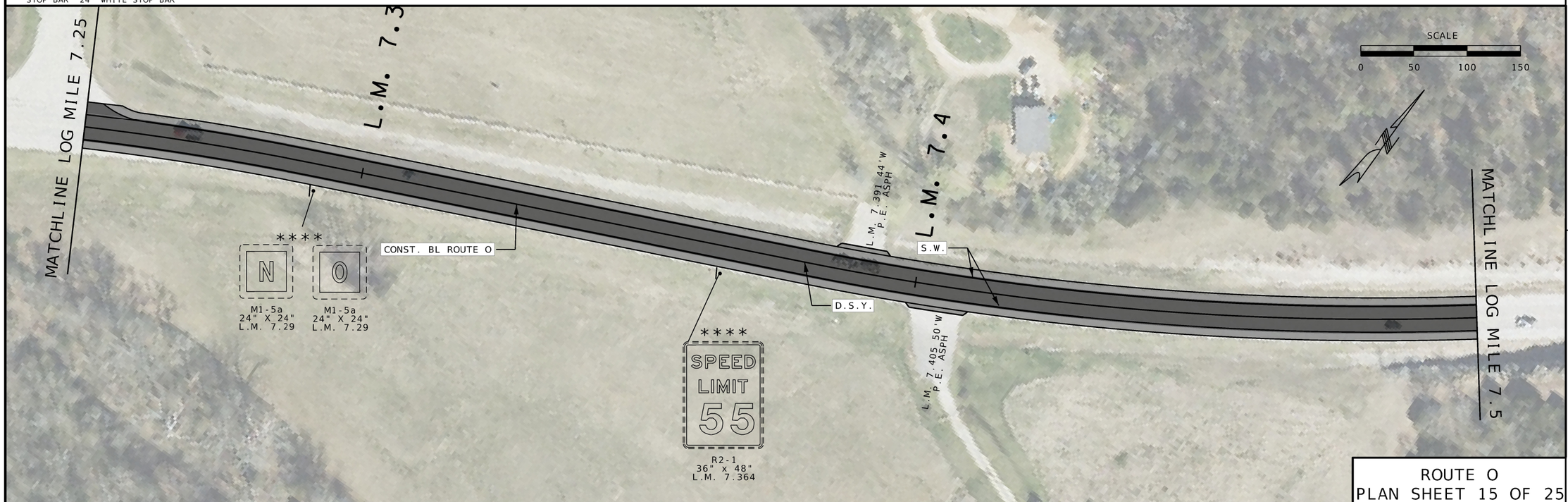

ROUTE O
PLAN SHEET 15 OF 25

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
DATE: 2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	18

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

HORNER SHIFRIN

401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6986 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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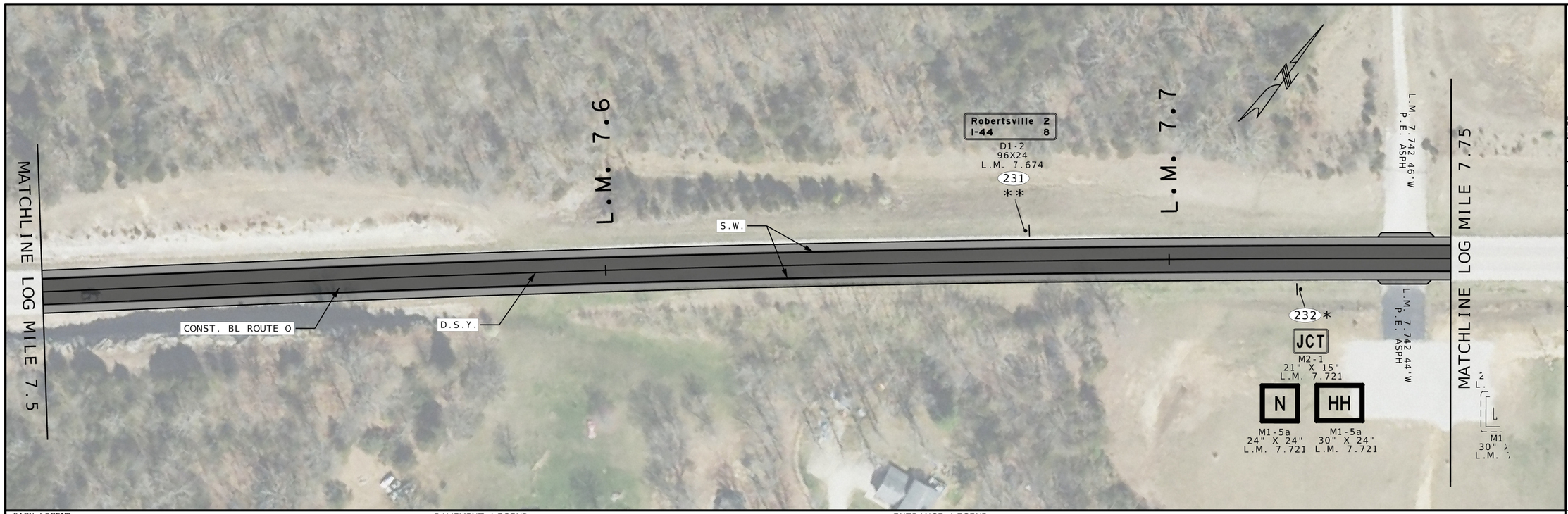

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STRIPING LEGEND
S.W. 4" SOLID WHITE
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STOP BAR 24" WHITE STOP BAR

PAVEMENT LEGEND
MILL AND RESURFACE 2" BP-1LT
MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

ENTRANCE LEGEND
C.E. COMMERCIAL LEGEND
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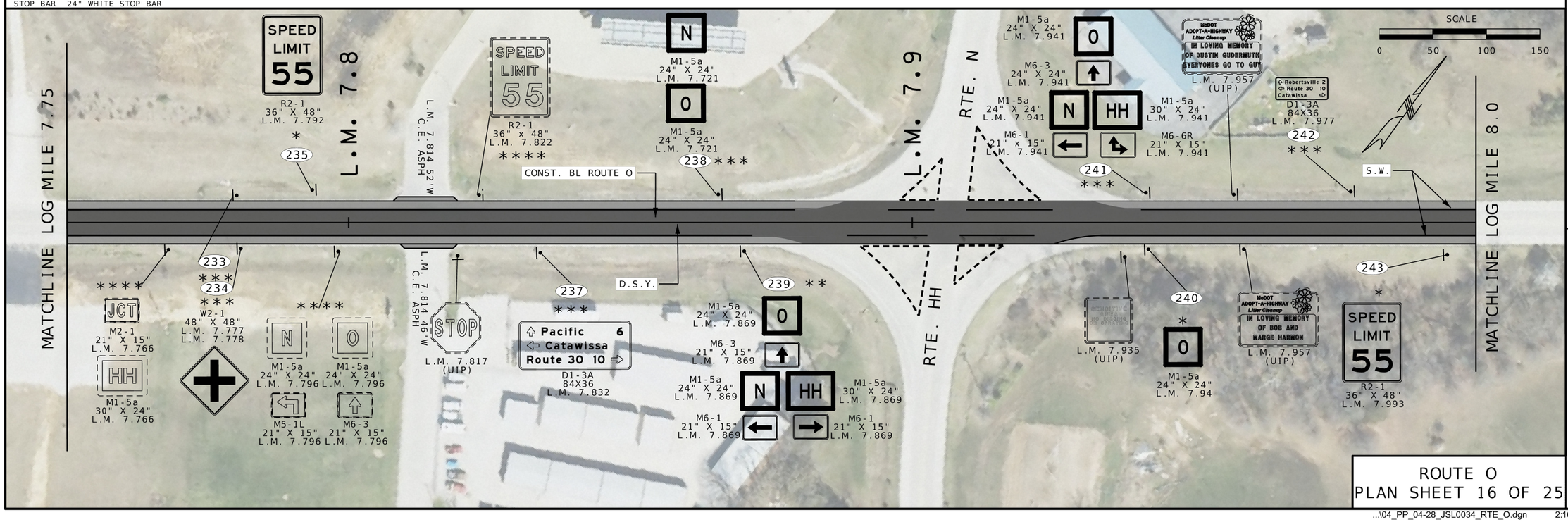

ROUTE O
PLAN SHEET 16 OF 25

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/6/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	19

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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MATCHLINE LOG MILE 8.0

JCT
M2-1
21" X 15"
L.M. 8.018

N
M1-5a
24" X 24"
L.M 8.018

HH
M1-5a
30" X 24"
L.M. 8.018

****

245

W2-1
48" X 48"
L.M. 8.028

***

M2-1
21" X 15"
L.M. 8.067

JCT

N
M1-5a
24" X 24"
L.M. 8.067

HH
M1-5a
30" X 24"
L.M. 8.067

*

247

L.M. 8.1

S.W.

L.M. 8.187 26"W
P.E. ASPH

L.M. 8.2

L.M. 8.233 24"W
P.E. ASPH

MATCHLINE LOG MILE 8.25

TYPE
(MASH

244

****

ROUTE F 4
PACIFIC 4

D1-2A
84X24
L.M. 8.025

246

***

W2-1
48" X 48"
L.M. 8.029

D.S.Y.

CONST. BL ROUTE O

SIGN LEGEND
* INSTALL NEW SIGN, POST & STUB
** REMOVE & REPLACE SIGN, POST & STUB
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STRIPING LEGEND
S.W. 4" SOLID WHITE
D.S.Y. 4" DOUBLE SOLID YELLOW
STOP BAR 24" WHITE STOP BAR

MILL AND RESURFACE
2" BP-1LT

PAVEMENT LEGEND
MILL AND RESURFACE
1.5" BP-2

HIGH FRICTION
SURFACE TREATMENT

ENTRANCE LEGEND
C.E. COMMERCIAL LEGEND
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MATCHLINE LOG MILE 8.25

SPEED LIMIT 55
R2-1
36" X 48"
L.M. 8.277

248

**

D.S.Y.

TYPE A C.E.T.
(MASH)

MGS HEIGHT
AND BLOCK
TRANSITION

162.5' EX.
GUARDRAIL
REMOVE 75'

L.M. 8.264

L.M. 8.274

237.5' MGS
GUARDRAIL

L.M. 8.282

L.M. 8.292

L.M. 8.297

L.M. 8.3

325' EX.
GUARDRAIL (R.)

L.M. 8.319

L.M. 8.326

BRIDGE A5950
(REFER TO
BRIDGE PLANS)

MGS BR. APPR. TRANS.
SEC. (REGULAR/NO CURB)

****

WINCH
CREEK

L.M. 8.322

O
M1-5a
24" X 24"
L.M. 8.315

***

249

L.M. 8.312
END MILL & OVERLAY
END CENTERLINE &
SHOULDER RUMBLE STRIPS

L.M. 8.377
BEGIN MILL & OVERLAY
BEGIN CENTERLINE &
SHOULDER RUMBLE STRIPS

WINCH
CREEK

L.M. 8.367

****

MGS BR. APPR. TRANS.
SEC. (REGULAR/NO CURB)

L.M. 8.367

L.M. 8.374

275' EX.
GUARDRAIL (R.)

187.5' MGS
GUARDRAIL

L.M. 8.410

L.M. 8.420

TYPE A C.E.T.
(MASH)

CONST. BL ROUTE O

TYPE A C.E.T.
(MASH)

MGS HEIGHT
AND BLOCK
TRANSITION

L.M. 8.393

L.M. 8.398

L.M. 8.405

L.M. 8.4

L.M. 8.414 40"W
P.E. ASPH

WILD PLUM
VY.

12'

STOP
R1-1
36" X 36"
L.M. 8.401

***

251

S.W.

252

***

O
M1-5a
24" X 24"
L.M. 8.445

L.M. 8.485 34"W
P.E. ASPH

MATCHLINE LOG MILE 8.5

SCALE
0 50 100 150

ROUTE O
PLAN SHEET 17 OF 25

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STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
DATE: 20240178
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO

DISTRICT	SHEET NO.
SL	20

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

CONTRACT ID.

PROJECT NO.

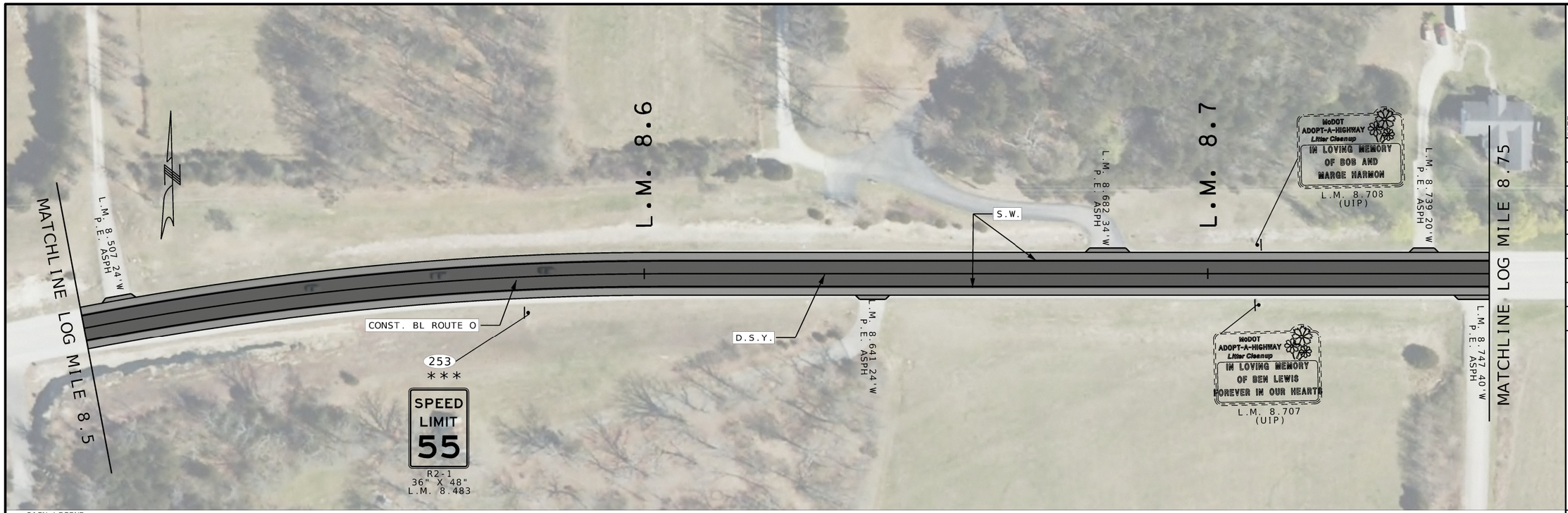
BRIDGE NO.

DATE	DESCRIPTION

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

MoDOT

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6986 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024



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S.W. 4" SOLID WHITE
D.S.Y. 4" DOUBLE SOLID YELLOW
STOP BAR 24" WHITE STOP BAR

PAVEMENT LEGEND
MILL AND RESURFACE 2" BP-1LT
MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

ENTRANCE LEGEND
C.E. COMMERCIAL LEGEND
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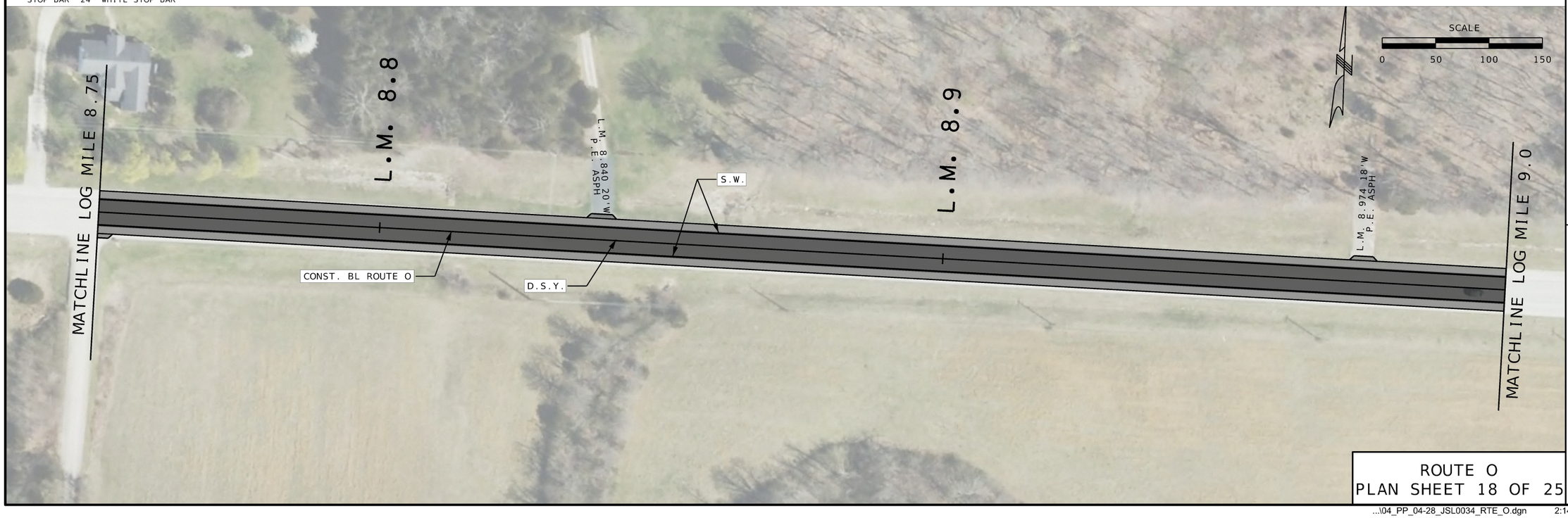

ROUTE O
PLAN SHEET 18 OF 25

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
DATE: 20240718
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	21

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN

401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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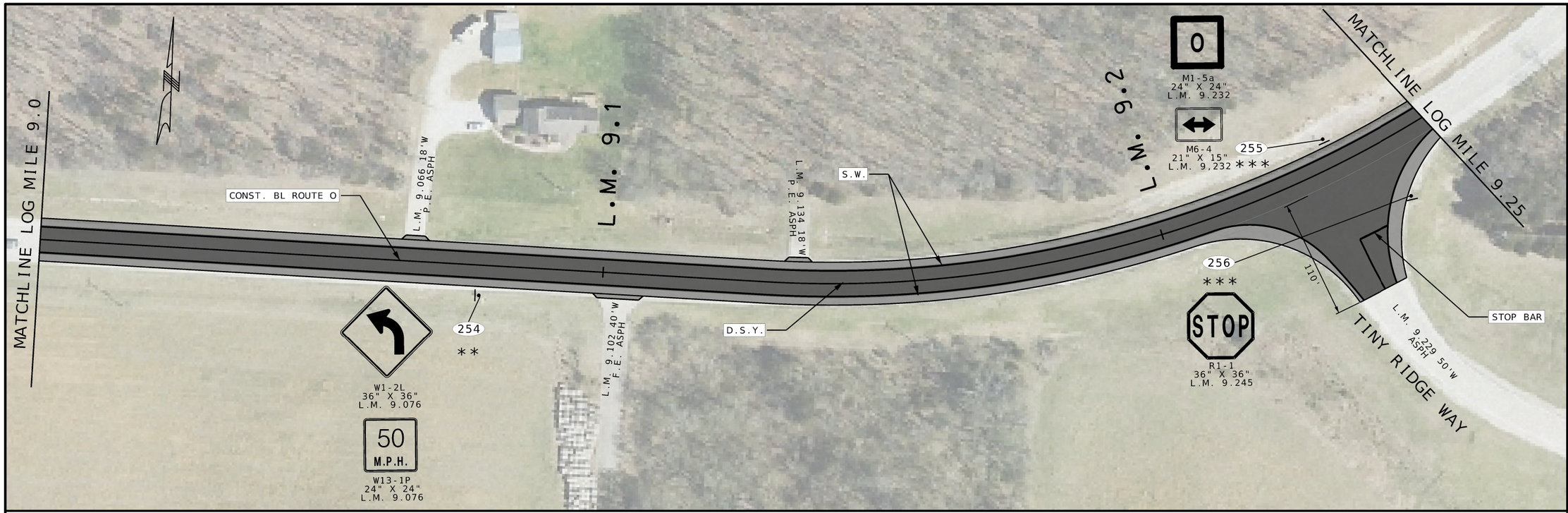

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STRIPING LEGEND
S.W. 4" SOLID WHITE
D.S.Y. 4" DOUBLE SOLID YELLOW
STOP BAR 24" WHITE STOP BAR

PAVEMENT LEGEND
MILL AND RESURFACE 2" BP-1LT
MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

ENTRANCE LEGEND
C.E. COMMERCIAL LEGEND
P.E. PRIVATE ENTRANCE
F.E. FIELD ENTRANCE

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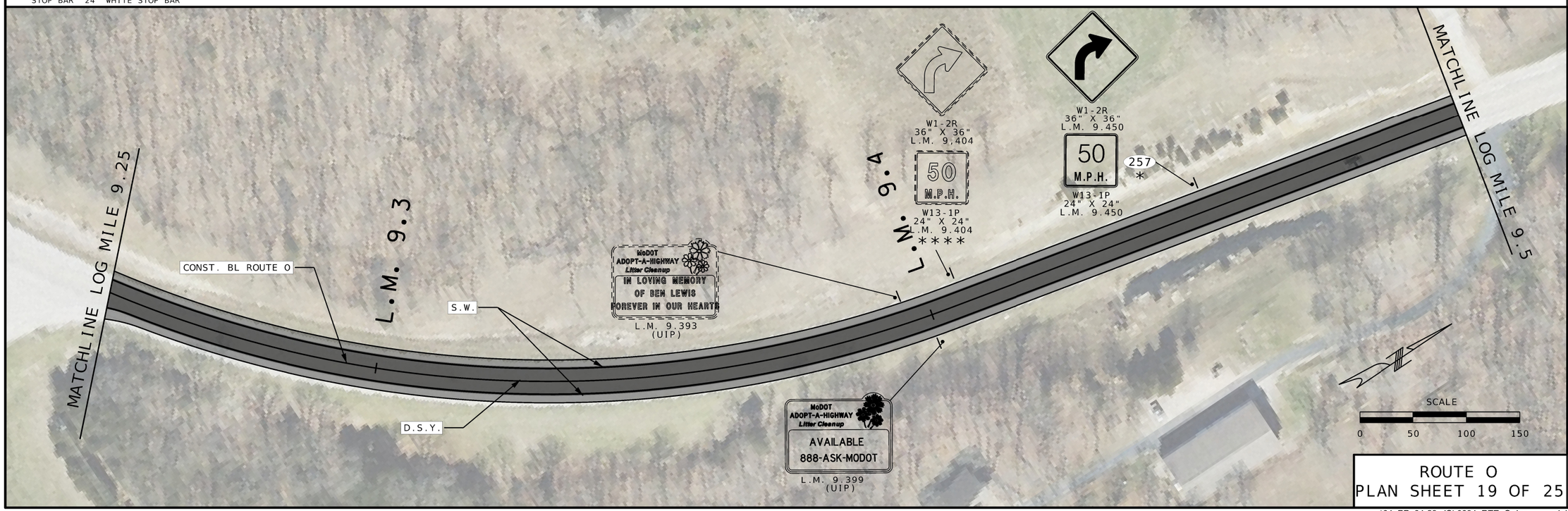

ROUTE O
PLAN SHEET 19 OF 25

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
DATE: 2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	22

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
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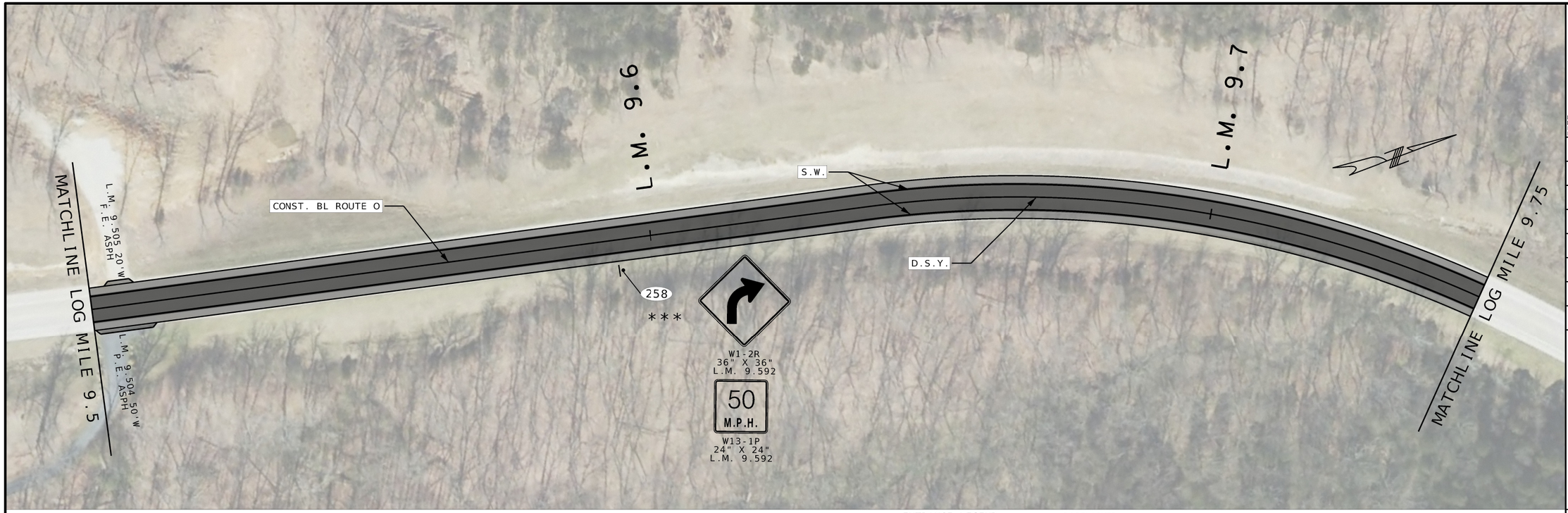

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D.S.Y. 4" DOUBLE SOLID YELLOW
STOP BAR 24" WHITE STOP BAR

MILL AND RESURFACE 2" BP-1LT

PAVEMENT LEGEND
MILL AND RESURFACE 1 5" BP-2
HIGH FRICTION SURFACE TREATMENT

ENTRANCE LEGEND
C.E. COMMERCIAL LEGEND
P.E. PRIVATE ENTRANCE
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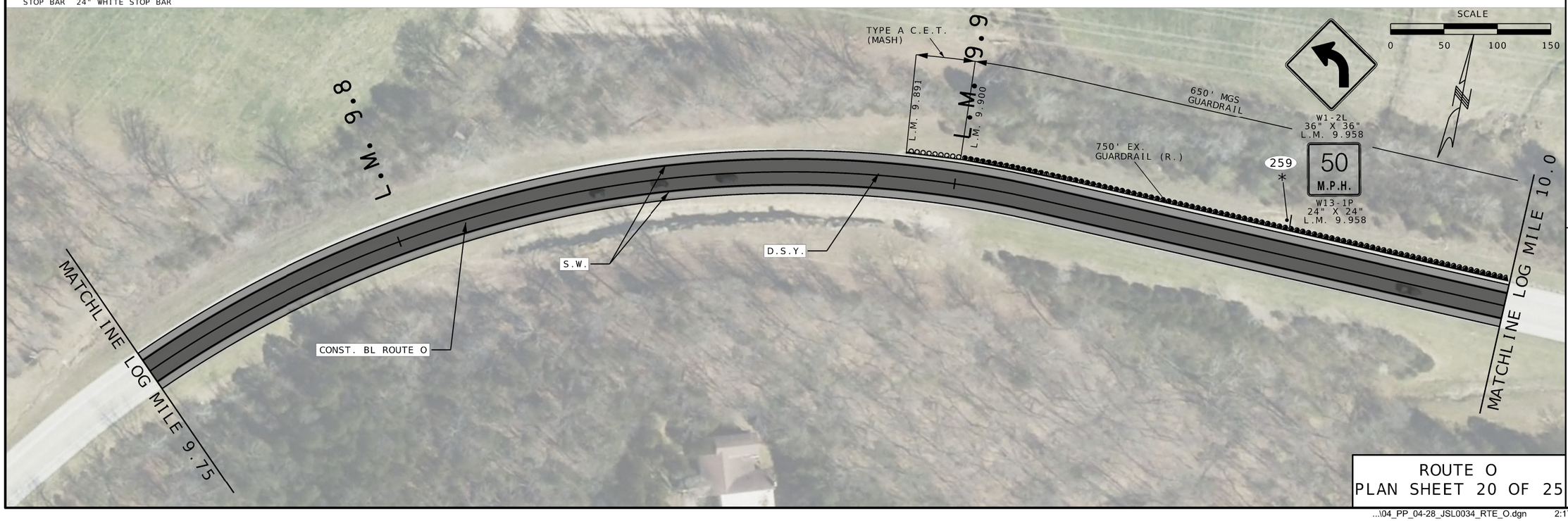

ROUTE O
PLAN SHEET 20 OF 25

STEPHEN T. SICHMELLER
NUMBER
DATE: 2024017802

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED: 8/8/2024
ROUTE: O/F/NN
STATE: MO
DISTRICT: SL
SHEET NO.: 23
COUNTY: FRANK./JEFF.
JOB NO.: JSL0034
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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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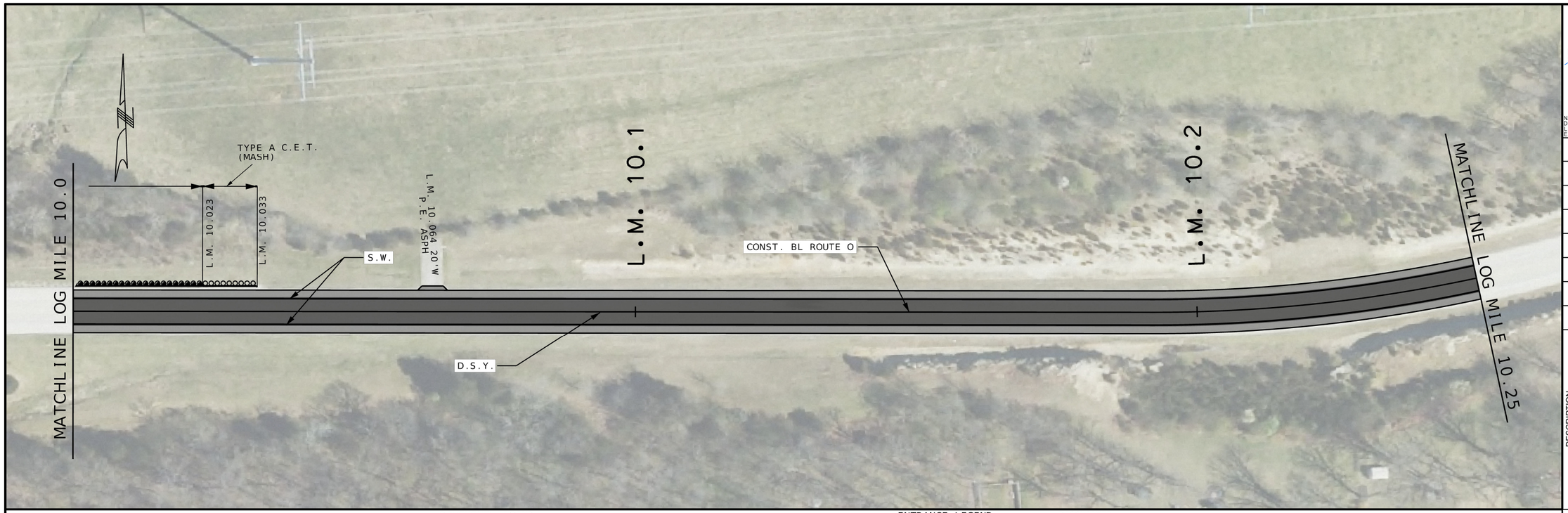

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D.S.Y. 4" DOUBLE SOLID YELLOW
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PAVEMENT LEGEND
MILL AND RESURFACE 2" BP-1LT
MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

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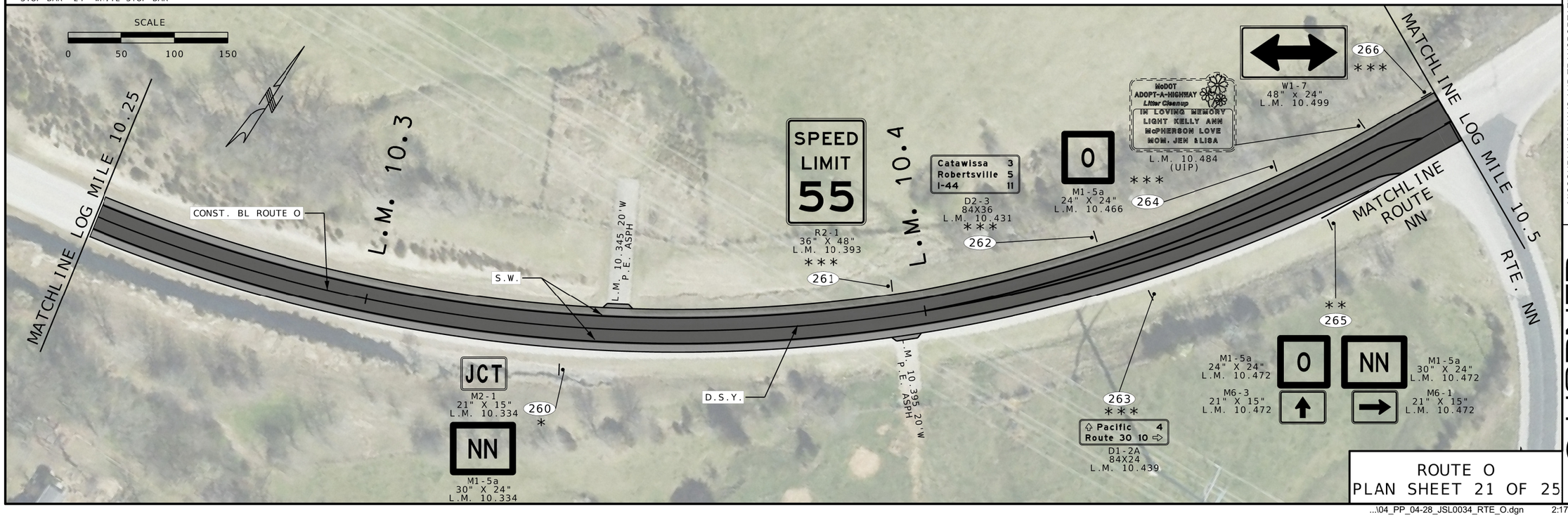


ROUTE O
PLAN SHEET 21 OF 25

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/6/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	24

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

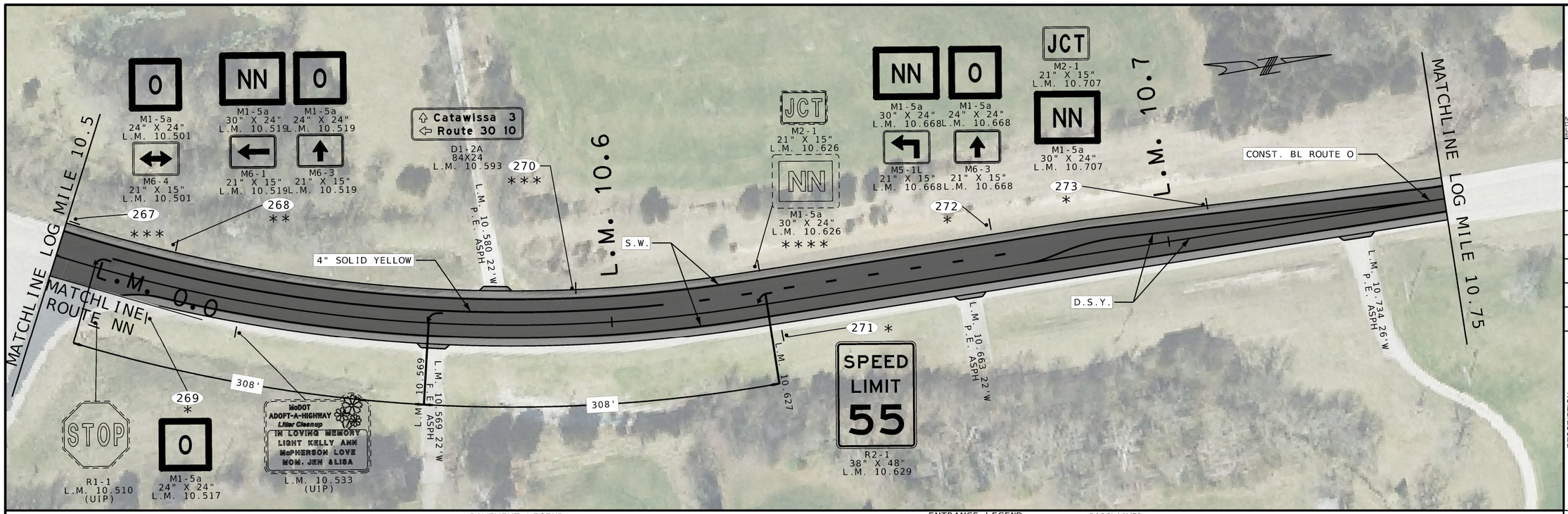
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

HORNER SHIFRIN

401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

...\04_PP_04-28_JSL0034_RTE_O.dgn 2:17:40 PM 8/6/2024



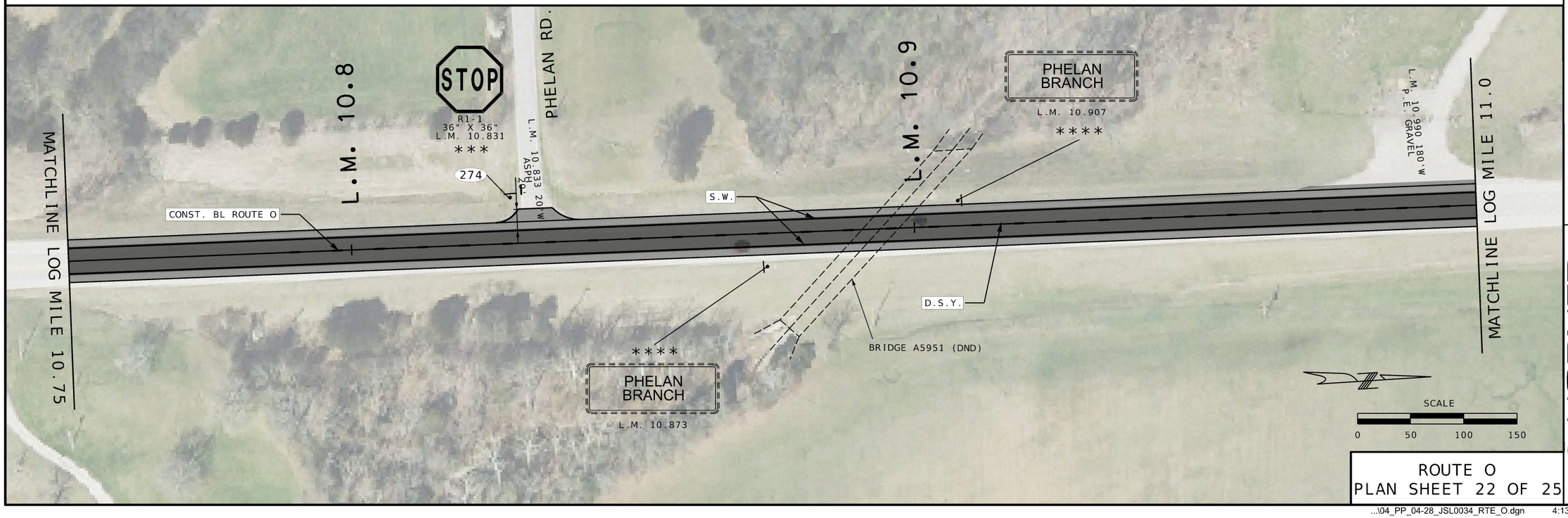
SIGN LEGEND
* INSTALL NEW SIGN, POST & STUB
** REMOVE & REPLACE SIGN, POST & STUB
*** REMOVE AND REPLACE SIGN ONLY
**** REMOVE SIGN, POST & STUB

STRIPING LEGEND
S.W. 4" SOLID WHITE
D.S.Y. 4" DOUBLE SOLID YELLOW
STOP BAR 24" WHITE STOP BAR

PAVEMENT LEGEND
MILL AND RESURFACE 2" BP-1LT
MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

ENTRANCE LEGEND
C.E. COMMERCIAL LEGEND
P.E. PRIVATE ENTRANCE
F.E. FIELD ENTRANCE

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) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMETNS 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.



ROUTE O
PLAN SHEET 22 OF 25

...\04_PP_04-28_JSL0034_RTE_O.dgn 4:13:17 PM 8/8/2024

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
DATE: 20240178
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO.: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	25

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024



SIGN LEGEND
* INSTALL NEW SIGN, POST & STUB
** REMOVE & REPLACE SIGN, POST & STUB
*** REMOVE AND REPLACE SIGN ONLY
**** REMOVE SIGN, POST & STUB

STRIPING LEGEND
S.W. 4" SOLID WHITE
D.S.Y. 4" DOUBLE SOLID YELLOW
STOP BAR 24" WHITE STOP BAR

PAVEMENT LEGEND
MILL AND RESURFACE 2" BP-1LT
MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

ENTRANCE LEGEND
C.E. COMMERCIAL LEGEND
P.E. PRIVATE ENTRANCE
F.E. FIELD ENTRANCE

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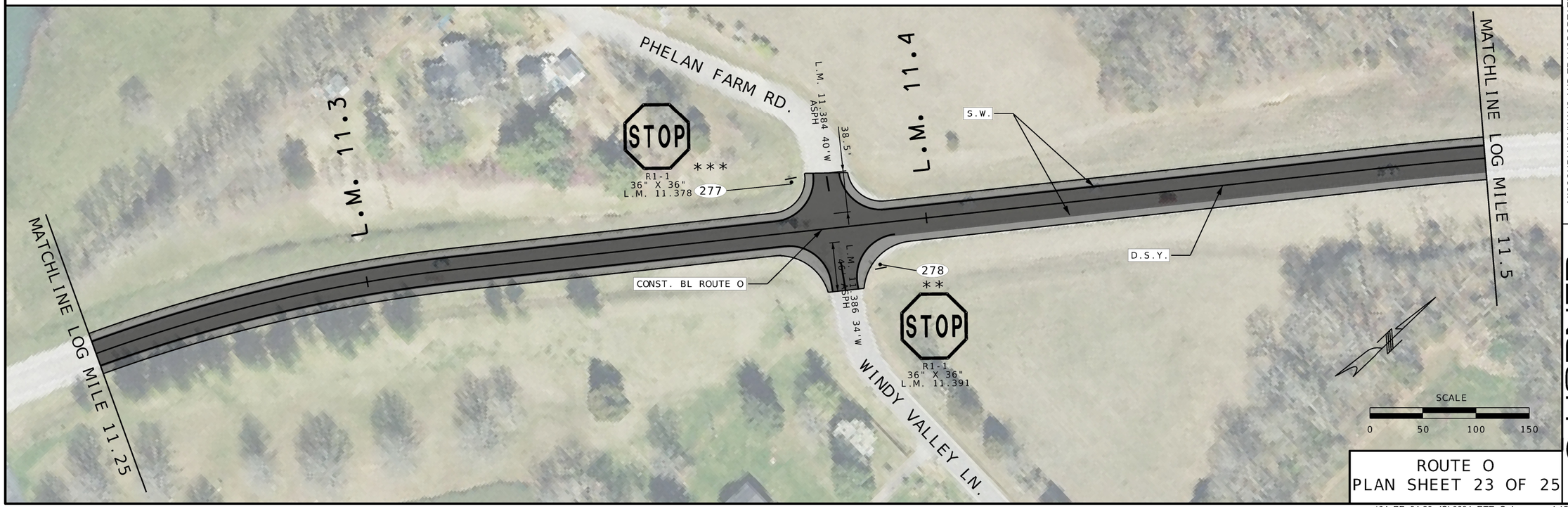

ROUTE O
PLAN SHEET 23 OF 25

STEPHEN T. SICHMELLER
NUMBER
DATE: 20240718

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED: 8/8/2024
ROUTE: O/F/NN
STATE: MO
DISTRICT: SL
SHEET NO.: 26
COUNTY: FRANK./JEFF.
JOB NO.: JSL0034
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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6996 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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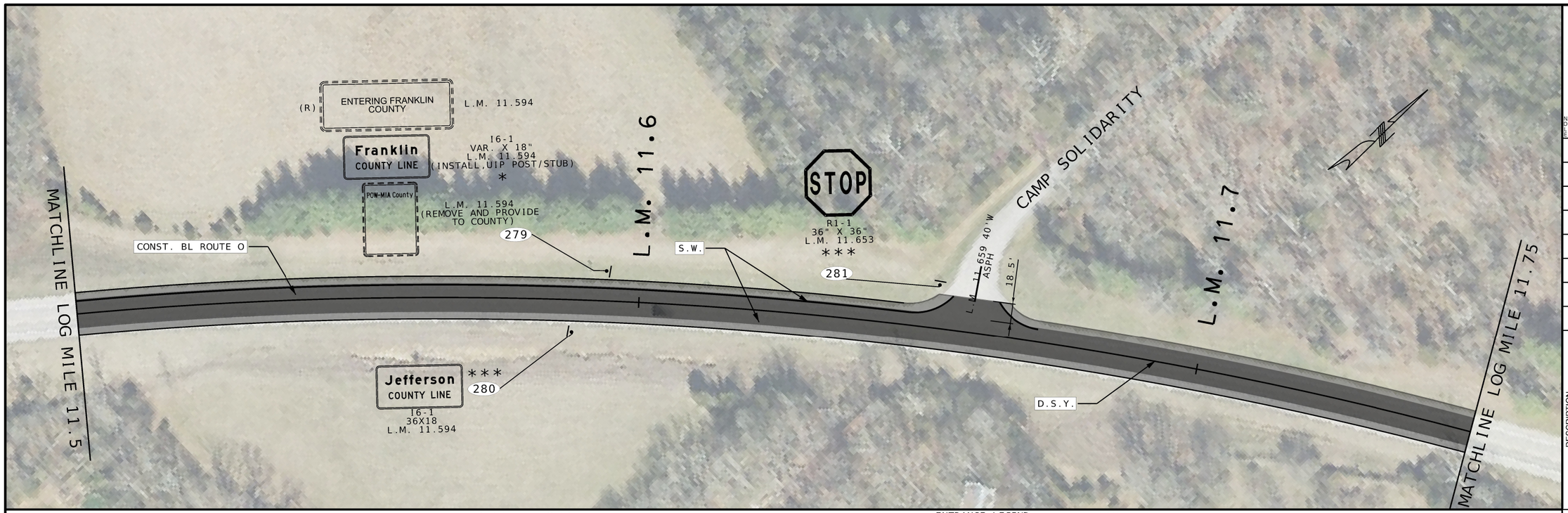

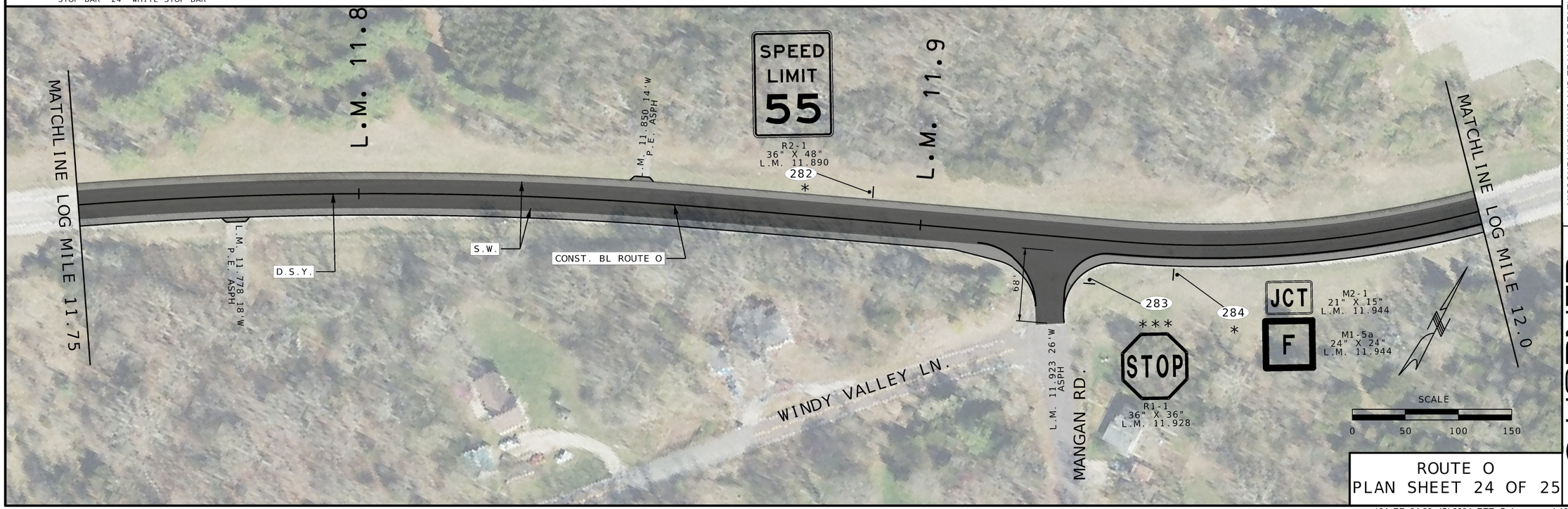

SIGN LEGEND
* INSTALL NEW SIGN, POST & STUB
** REMOVE & REPLACE SIGN, POST & STUB
*** REMOVE AND REPLACE SIGN ONLY
**** REMOVE SIGN, POST & STUB

STRIPING LEGEND
S.W. 4" SOLID WHITE
D.S.Y. 4" DOUBLE SOLID YELLOW
STOP BAR 24" WHITE STOP BAR

PAVEMENT LEGEND
MILL AND RESURFACE 2" BP-1LT
MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

ENTRANCE LEGEND
C.E. COMMERCIAL LEGEND
P.E. PRIVATE ENTRANCE
F.E. FIELD ENTRANCE

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STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
DATE: 20240718
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	27

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

ROUTE O
PLAN SHEET 24 OF 25

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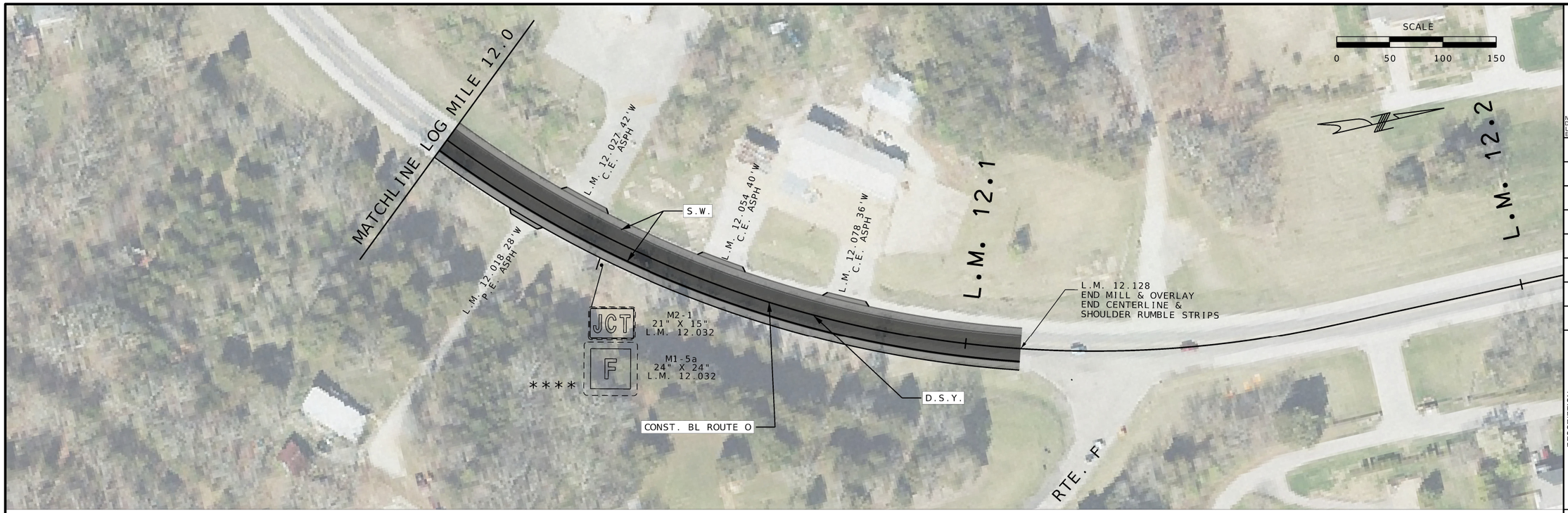

SIGN LEGEND
* INSTALL NEW SIGN, POST & STUB
** REMOVE & REPLACE SIGN, POST & STUB
*** REMOVE AND REPLACE SIGN ONLY
**** REMOVE SIGN, POST & STUB

STRIPING LEGEND
S.W. 4" SOLID WHITE
D.S.Y. 4" DOUBLE SOLID YELLOW
STOP BAR 24" WHITE STOP BAR

PAVEMENT LEGEND
MILL AND RESURFACE 2" BP-1LT
MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

ENTRANCE LEGEND
C.E. COMMERCIAL LEGEND
P.E. PRIVATE ENTRANCE
F.E. FIELD ENTRANCE

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STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
DATE: 2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED: 8/8/2024
ROUTE: O/F/NN
STATE: MO
DISTRICT: SL
SHEET NO.: 28
COUNTY: FRANK./JEFF.
JOB NO.: JSL0034
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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6686 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

ROUTE O
PLAN SHEET 25 OF 25

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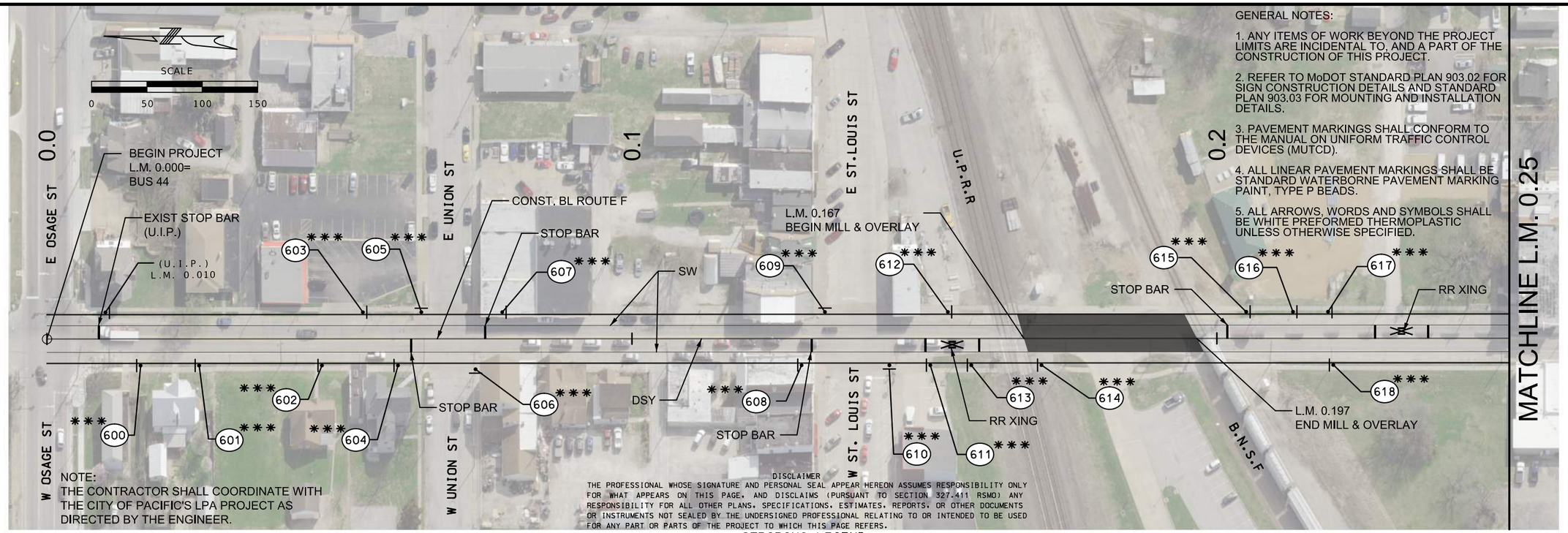

NOTE:
THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF PACIFIC'S LPA PROJECT AS DIRECTED BY THE ENGINEER.

DISCLAIMER
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GENERAL NOTES:

1. ANY ITEMS OF WORK BEYOND THE PROJECT LIMITS ARE INCIDENTAL TO, AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

2. REFER TO MoDOT STANDARD PLAN 903.02 FOR SIGN CONSTRUCTION DETAILS AND STANDARD PLAN 903.03 FOR MOUNTING AND INSTALLATION DETAILS.

3. PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

4. ALL LINEAR PAVEMENT MARKINGS SHALL BE STANDARD WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS.

5. ALL ARROWS, WORDS AND SYMBOLS SHALL BE WHITE PREFORMED THERMOPLASTIC UNLESS OTHERWISE SPECIFIED.

MATCHLINE L.M. 0.25

SIGN LEGEND

*	INSTALL NEW SIGN, POST & STUB	***	REMOVE AND REPLACE SIGN ONLY
**	REMOVE & REPLACE SIGN, POST & STUB	****	REMOVE SIGN, POST & STUB

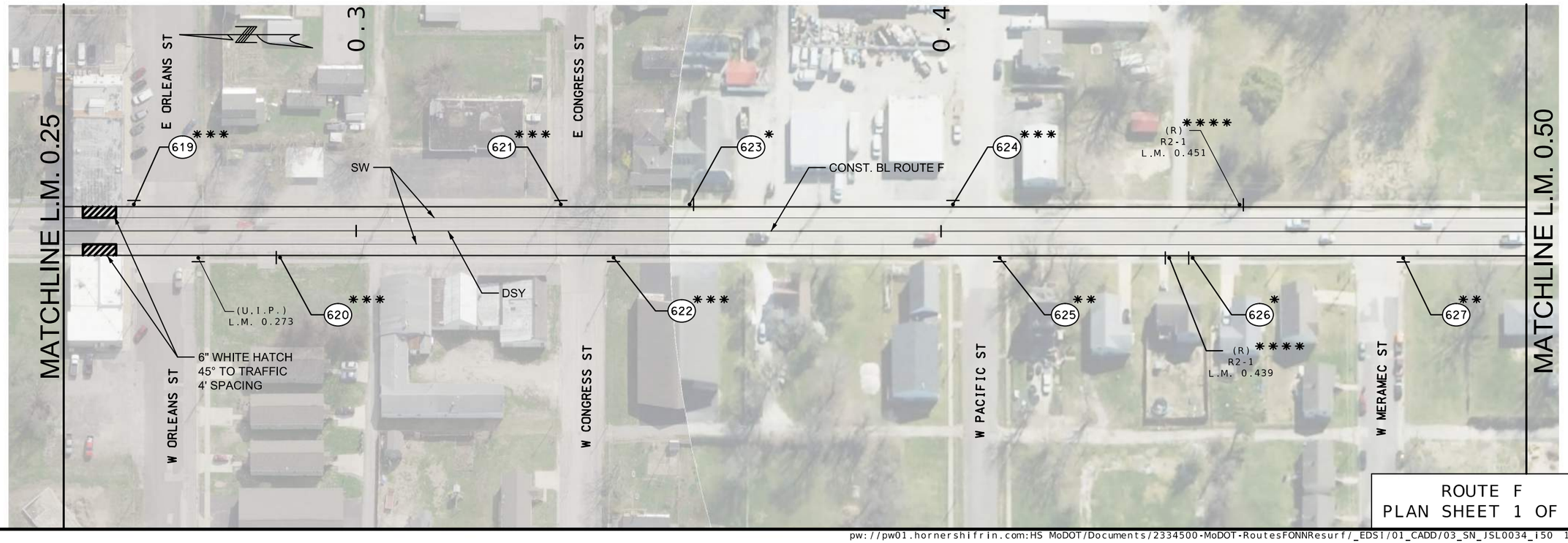
STRIPING LEGEND

SW	4" SOLID WHITE
DSY	4" DOUBLE SOLID YELLOW
STOP BAR	24" WHITE STOP BAR
RR XING	WHITE RAILROAD CROSSING

PAVEMENT LEGEND

MILL AND RESURFACE
2" BP-1LT

MILL AND RESURFACE
1.5" BP-2



ROUTE F
PLAN SHEET 1 OF 6

STATE OF MISSOURI
JOHN A. HOCK
NUMBER E-23292
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/14/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	29

COUNTY
FRANK/JEFF

JOB NO.
JSL0034

CONTRACT ID.

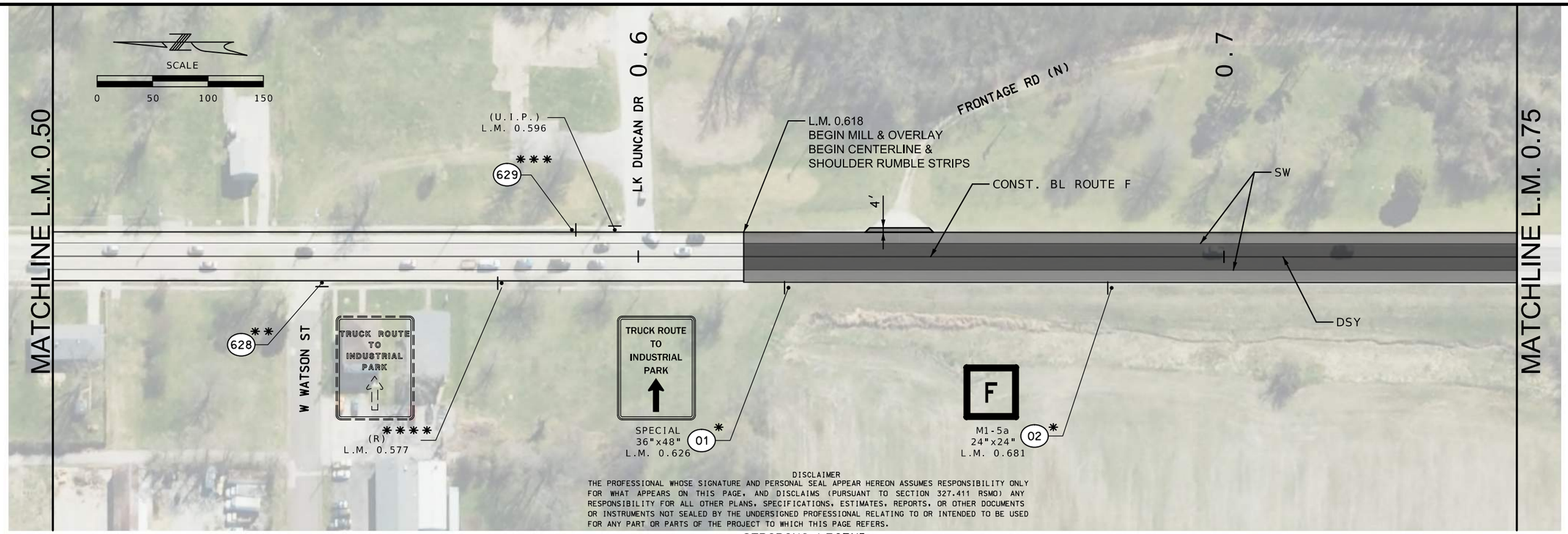
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

EDSI
ENGINEERING DESIGN SOURCE, INC.
16141 Swingley Ridge Rd., Suite 300
Chesterfield, Missouri 63017
Missouri State Engineering Corporation #001523
T. 636 537 5585
F. 636 537 0275



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SIGN LEGEND

✳	INSTALL NEW SIGN, POST & STUB	✳✳✳	REMOVE AND REPLACE SIGN ONLY
✳✳	REMOVE & REPLACE SIGN, POST & STUB	✳✳✳✳	REMOVE SIGN, POST & STUB

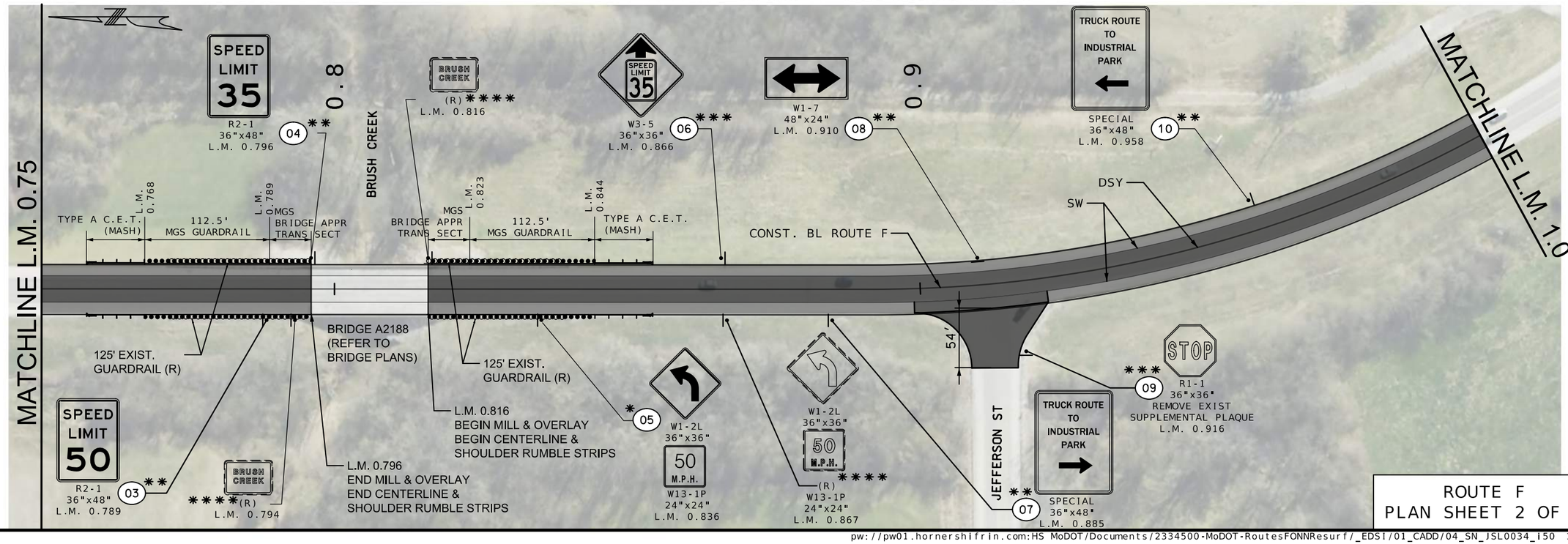
STRIPING LEGEND

SW	4" SOLID WHITE
DSY	4" DOUBLE SOLID YELLOW
STOP BAR	24" WHITE STOP BAR
RR XING	WHITE RAILROAD CROSSING

PAVEMENT LEGEND

MILL AND RESURFACE 2" BP-1LT

MILL AND RESURFACE 1.5" BP-2



ROUTE F
PLAN SHEET 2 OF 6

STATE OF MISSOURI
JOHN A. HOCK
NUMBER E-23292
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/14/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	30

COUNTY FRANK/JEFF

JOB NO. JSL0034

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)

EDSI ENGINEERING DESIGN SOURCE, INC.
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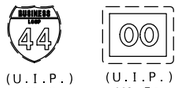
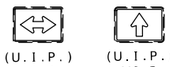
Chesterfield, Missouri 63017
Missouri State Engineering Corporation #001523
T. 636 537 5585
F. 636 537 0275



(U.I.P.)
M1-2
24"x24"

(U.I.P.)
M1-5a
30"x24"



(U.I.P.)
M6-4
21"x15"
L.M. 0.010

(U.I.P.)
M6-3
21"x15"
L.M. 0.010



M1-5a
24"x24"
L.M. 0.016

600 ***



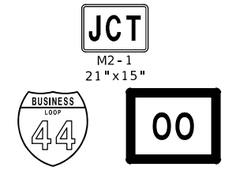
R2-1
36"x48"
L.M. 0.026

601 ***



SPECIAL
36"x48"
L.M. 0.047

602 ***



M2-1
21"x15"

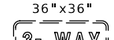
M1-2
24"x24"
L.M. 0.054

M1-5a
30"x24"
L.M. 0.054

603 ***



R1-1
36"x36"



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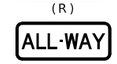
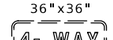


R1-3P
30"x12"
L.M. 0.060

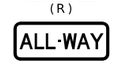
604 ***



R1-1
36"x36"



(R)

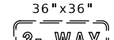


R1-3P
30"x12"
L.M. 0.064

605 ***



R1-1
36"x36"



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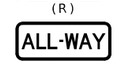
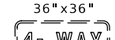


R1-3P
30"x12"
L.M. 0.072

606 ***



R1-1
36"x36"



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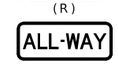
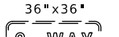


R1-3P
30"x12"
L.M. 0.078

607 ***



R1-1
36"x36"



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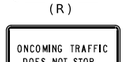
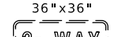


W4-4bP
24"X18"
L.M. 0.129

608 ***



R1-1
36"x36"



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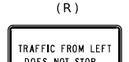
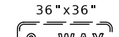


W4-4aPL
24"X18"
L.M. 0.133

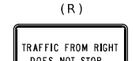
609 ***



R1-1
36"x36"



(R)



W4-4aPR
24"X18"
L.M. 0.144

610 ***



W10-1
42"x42"
L.M. 0.151

611 ***



D11-1-24
24"x18"



M6-1_GREEN
21"x15"
L.M. 0.154

612 ***



D4-2R-30
30"x36"



D4-1P-30
30"x06"
L.M. 0.158

613 ***



D11-1-24
24"x18"



M6-1_GREEN
21"x15"
L.M. 0.170

614 ***



D4-2L-30
30"x36"



D4-1P-30
30"x06"
L.M. 0.205

615 ***



R2-1
24"x30"
L.M. 0.213

616 ***



W10-1
42"x42"
L.M. 0.219

617 ***



R2-1
24"x30"
L.M. 0.220

618 ***

R1-1
36"x36"
L.M. 0.262

619 ***

(U.I.P.)
R1-1
36"x36"
L.M. 0.273

SPECIAL
36"x48"
L.M. 0.287

620 ***

R1-1
36"x36"
L.M. 0.335

621 ***

R1-1
36"x36"
L.M. 0.344

622 ***

R2-1
24"x30"
L.M. 0.357

623 *

R1-1
36"x36"
L.M. 0.402

624 ***

R1-1
36"x36"
L.M. 0.410

625 **

(R)
R2-1
24"x30"
L.M. 0.439

626 ****

(R)
R2-1
24"x30"
L.M. 0.451

626 *

R2-1
24"x30"
L.M. 0.443

626 *

R1-1
36"x36"
L.M. 0.479

627 **

R1-1
36"x36"
L.M. 0.546

628 **

R2-1
24"x30"
L.M. 0.588

629 ***

(U.I.P.)
R1-1
36"x36"
L.M. 0.596

ROUTE F
SIGN DETAIL SHEET

STATE OF MISSOURI
JOHN A. HOCK
NUMBER E-23292
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/14/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	30A

COUNTY
FRANK/JEFF

JOB NO.
JSL0034

CONTRACT ID.

PROJECT NO.

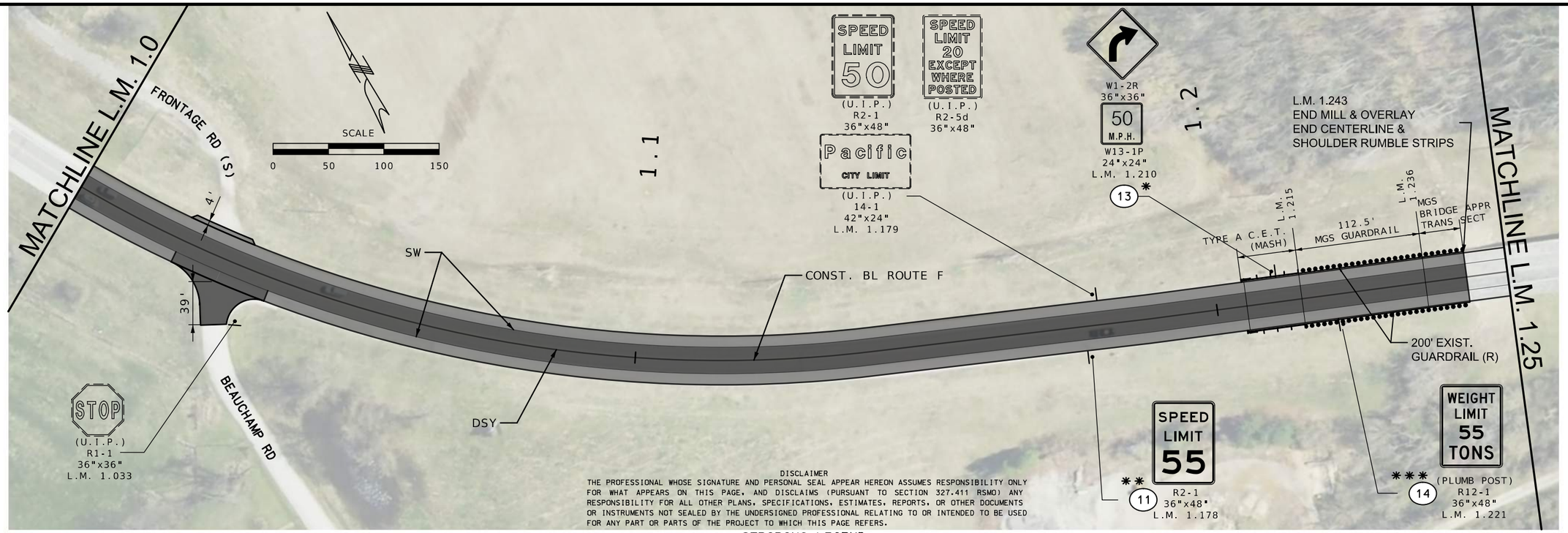
BRIDGE NO.

DESCRIPTION	DATE

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

EDSI
ENGINEERING DESIGN SOURCE, INC.
16141 Swingley Ridge Rd., Suite 300
Chesterfield, Missouri 63017
Missouri State Engineering Corporation #001523
T. 636.537.5585
F. 636.537.0275

pw://pw01.hornershifrin.com:HS MoDOT/Documents/2334500-MoDOT-RoutesFONNResurf/_EDSI/01_CADD/04A_SN_JSL0034_i50 1:38:37 PM 8/14/2024



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SIGN LEGEND

*	INSTALL NEW SIGN, POST & STUB	***	REMOVE AND REPLACE SIGN ONLY
**	REMOVE & REPLACE SIGN, POST & STUB	****	REMOVE SIGN, POST & STUB

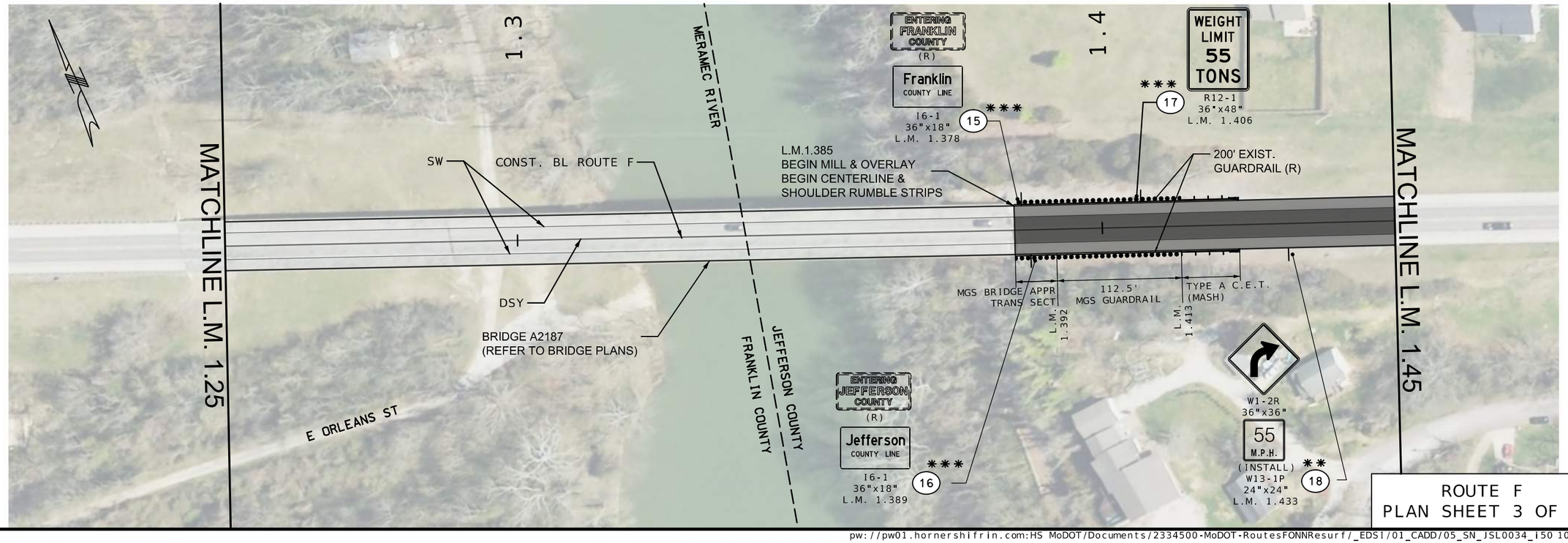
STRIPING LEGEND

SW	4" SOLID WHITE
DSY	4" DOUBLE SOLID YELLOW
STOP BAR	24" WHITE STOP BAR
RR XING	WHITE RAILROAD CROSSING

PAVEMENT LEGEND

MILL AND RESURFACE 2" BP-1LT

MILL AND RESURFACE 1.5" BP-2



ROUTE F
PLAN SHEET 3 OF 6

STATE OF MISSOURI
JOHN A. HOCK
NUMBER E-23292
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/2/2024

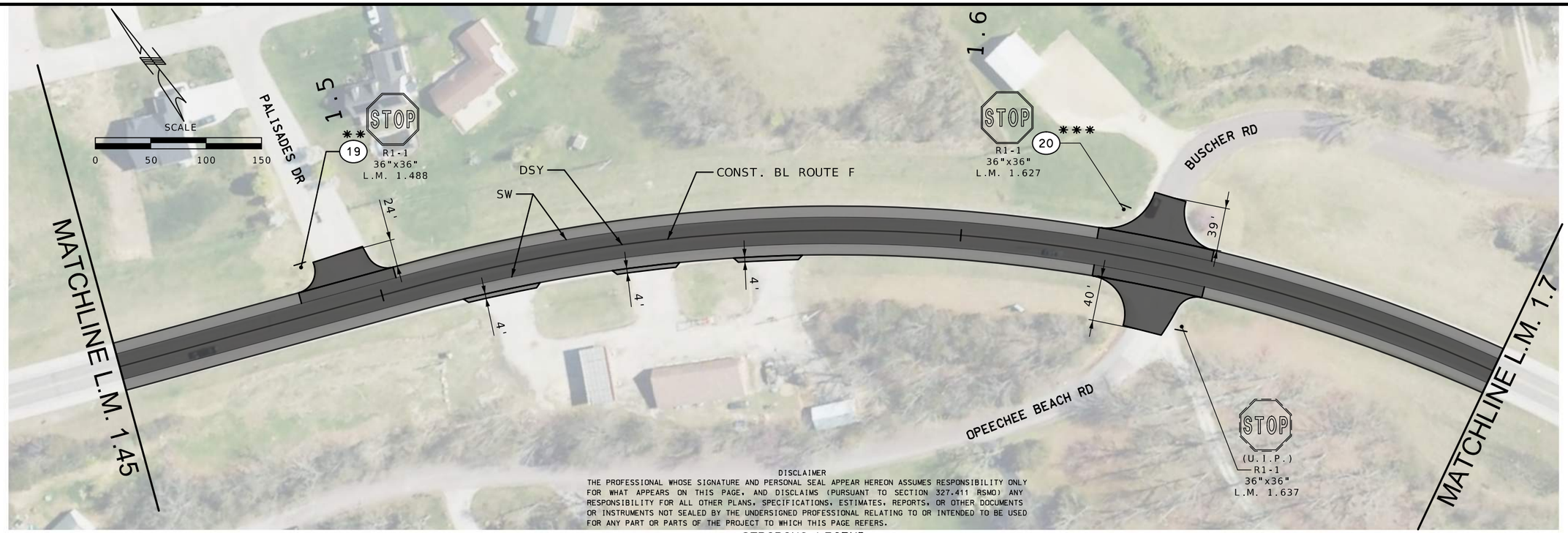
ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	31

COUNTY FRANK/JEFF
JOB NO. JSL0034
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)

EDSI ENGINEERING DESIGN SOURCE, INC.
16141 Swingley Ridge Rd., Suite 300 T. 636 537 5585
Chesterfield, Missouri 63017 F. 636 537 0275
Missouri State Engineering Corporation #001523



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**	REMOVE & REPLACE SIGN, POST & STUB	****	REMOVE SIGN, POST & STUB

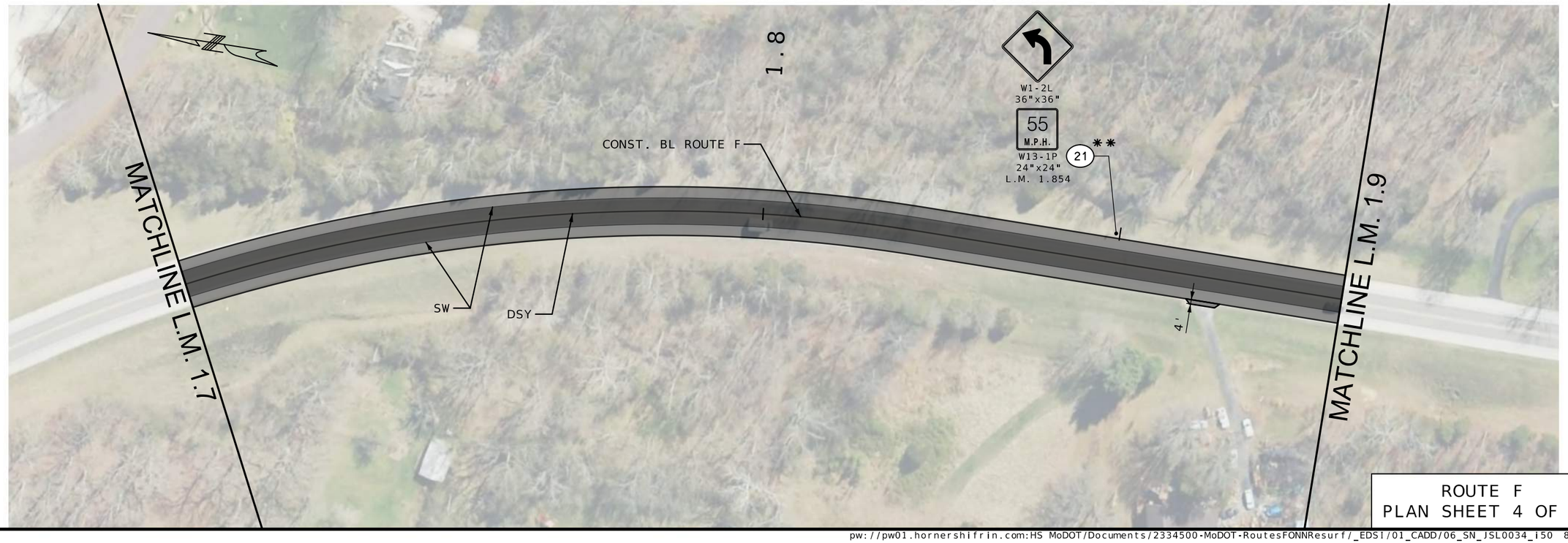
STRIPING LEGEND

SW	4" SOLID WHITE
DSY	4" DOUBLE SOLID YELLOW
STOP BAR	24" WHITE STOP BAR
RR XING	WHITE RAILROAD CROSSING

PAVEMENT LEGEND

MILL AND RESURFACE 2" BP-1LT

MILL AND RESURFACE 1.5" BP-2



ROUTE F
PLAN SHEET 4 OF 6

STATE OF MISSOURI
JOHN A. HOCK
NUMBER E-23292
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/2/2024
ROUTE O/F/NN
STATE MO
DISTRICT SL
SHEET NO. 32
COUNTY FRANK/JEFF
JOB NO. JSL0034
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)

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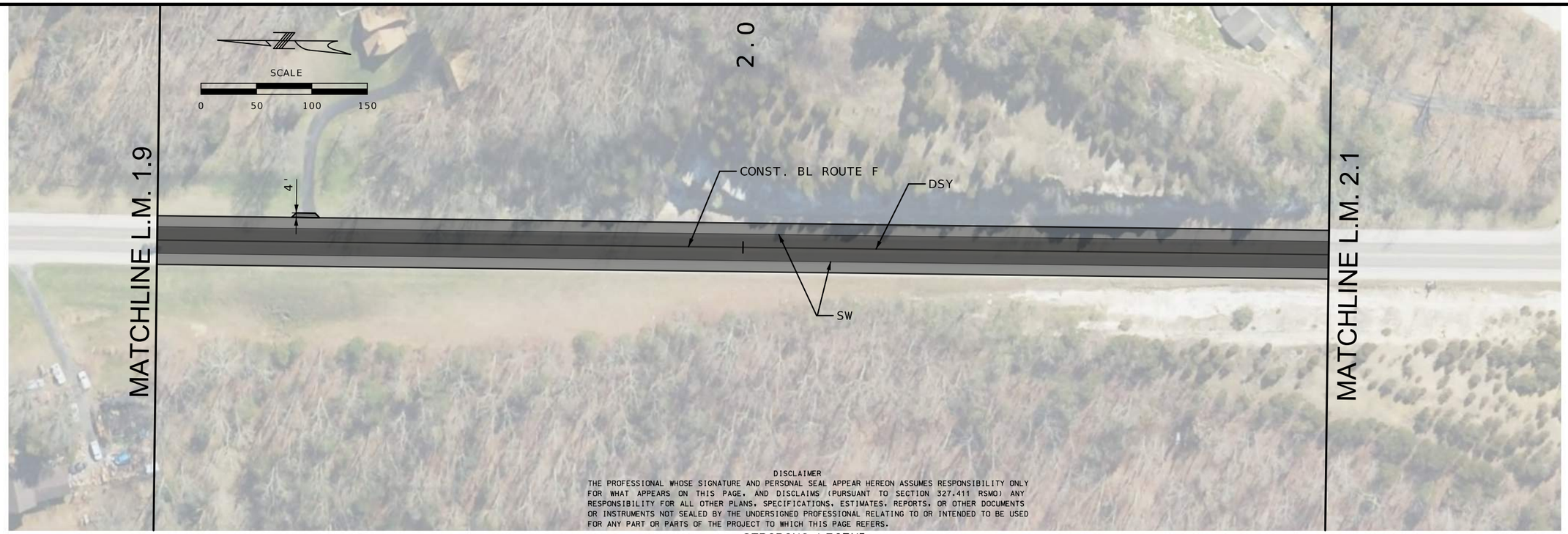
Chesterfield, Missouri 63017
Missouri State Engineering Corporation #001523
T. 636 537 5585
F. 636 537 0275

pw://pw01.hornershifrin.com:HS MoDOT/Documents/2334500-MoDOT-RoutesFONNResurf/_EDSI/01_CADD/06_SN_JSL0034_i50 8:32:01 AM 8/2/2024



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SIGN LEGEND

✳	INSTALL NEW SIGN, POST & STUB	✳✳✳	REMOVE AND REPLACE SIGN ONLY
✳✳	REMOVE & REPLACE SIGN, POST & STUB	✳✳✳✳	REMOVE SIGN, POST & STUB

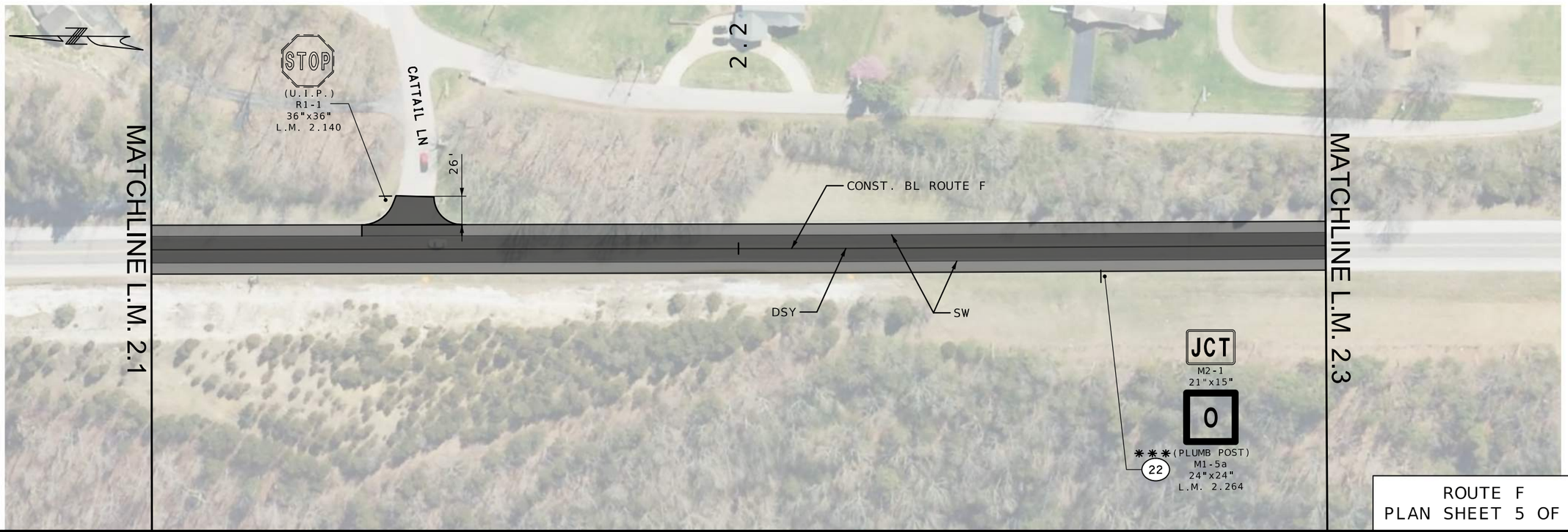
STRIPING LEGEND

SW	4" SOLID WHITE
DSY	4" DOUBLE SOLID YELLOW
STOP BAR	24" WHITE STOP BAR
RR XING	WHITE RAILROAD CROSSING

PAVEMENT LEGEND

MILL AND RESURFACE 2" BP-1LT

MILL AND RESURFACE 1.5" BP-2



ROUTE F
PLAN SHEET 5 OF 6

JOHN A. HOCK
NUMBER E-23292
STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/2/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	33

COUNTY FRANK/JEFF

JOB NO. JSL0034

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)

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ENGINEERING DESIGN SOURCE, INC.

16141 Swingley Ridge Rd., Suite 300
Chesterfield, Missouri 63017
Missouri State Engineering Corporation #001523

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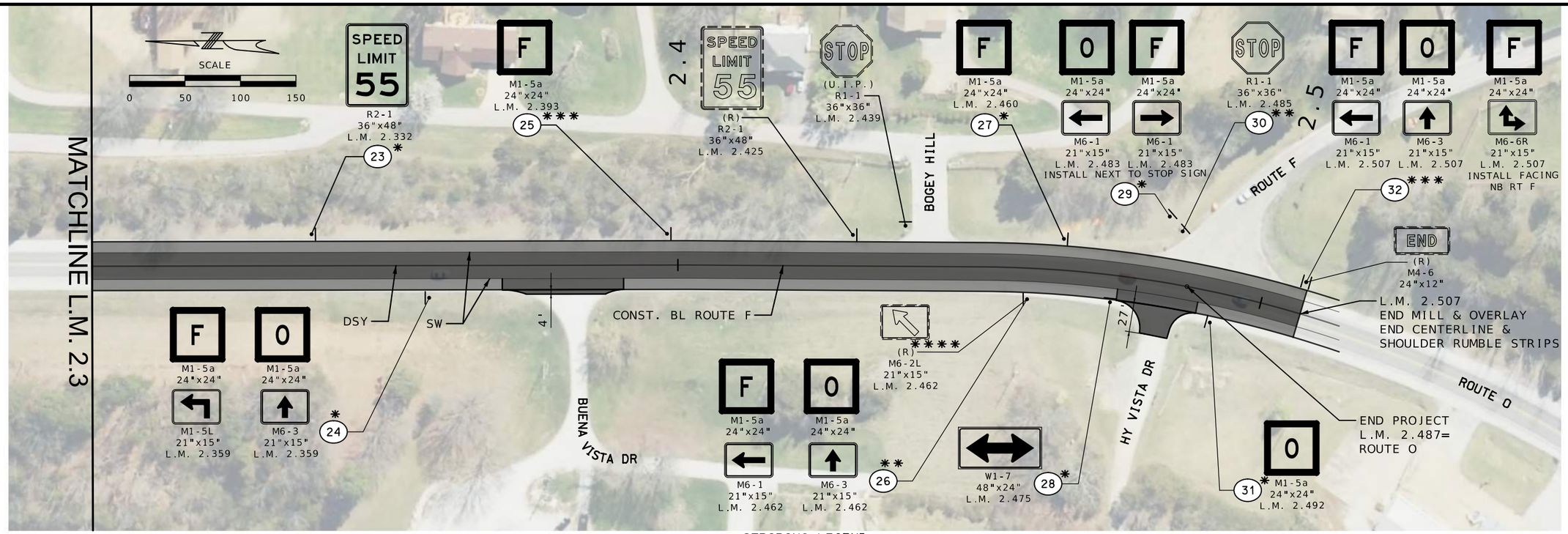
F. 636 537 0275



SIGN LEGEND

*	INSTALL NEW SIGN, POST & STUB	***	REMOVE AND REPLACE SIGN ONLY
**	REMOVE & REPLACE SIGN, POST & STUB	****	REMOVE SIGN, POST & STUB

STRIPING LEGEND

SW	4" SOLID WHITE
DSY	4" DOUBLE SOLID YELLOW
STOP BAR	24" WHITE STOP BAR
RR XING	WHITE RAILROAD CROSSING

PAVEMENT LEGEND

MILL AND RESURFACE 2" BP-1LT

MILL AND RESURFACE 1.5" BP-2

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ROUTE F
PLAN SHEET 6 OF 6

STATE OF MISSOURI
JOHN A. HOCK
NUMBER E-23292
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/2/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	34

COUNTY FRANK/JEFF

JOB NO. JSL0034

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)

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ENGINEERING DESIGN SOURCE, INC.
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Missouri State Engineering Corporation #001523
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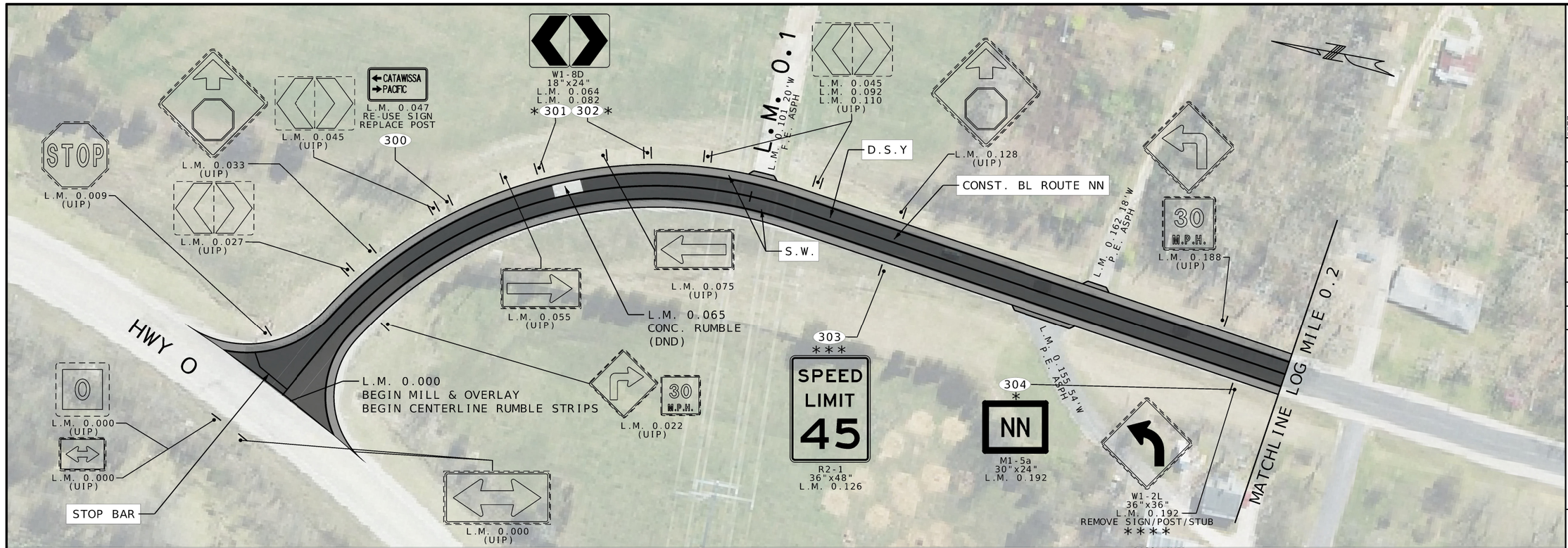

SIGN LEGEND
* INSTALL NEW SIGN, POST & STUB
** REMOVE & REPLACE SIGN, POST & STUB
*** REMOVE AND REPLACE SIGN ONLY
**** REMOVE SIGN, POST & STUB

STRIPING LEGEND
S.W. 4" SOLID WHITE
D.S.Y. 4" DOUBLE SOLID YELLOW
STOP BAR 24" WHITE STOP BAR

PAVEMENT LEGEND
MILL AND RESURFACE 2" BP-1
MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

ENTRANCE LEGEND
C.E. COMMERCIAL LEGEND
P.E. PRIVATE ENTRANCE
F.E. FIELD ENTRANCE

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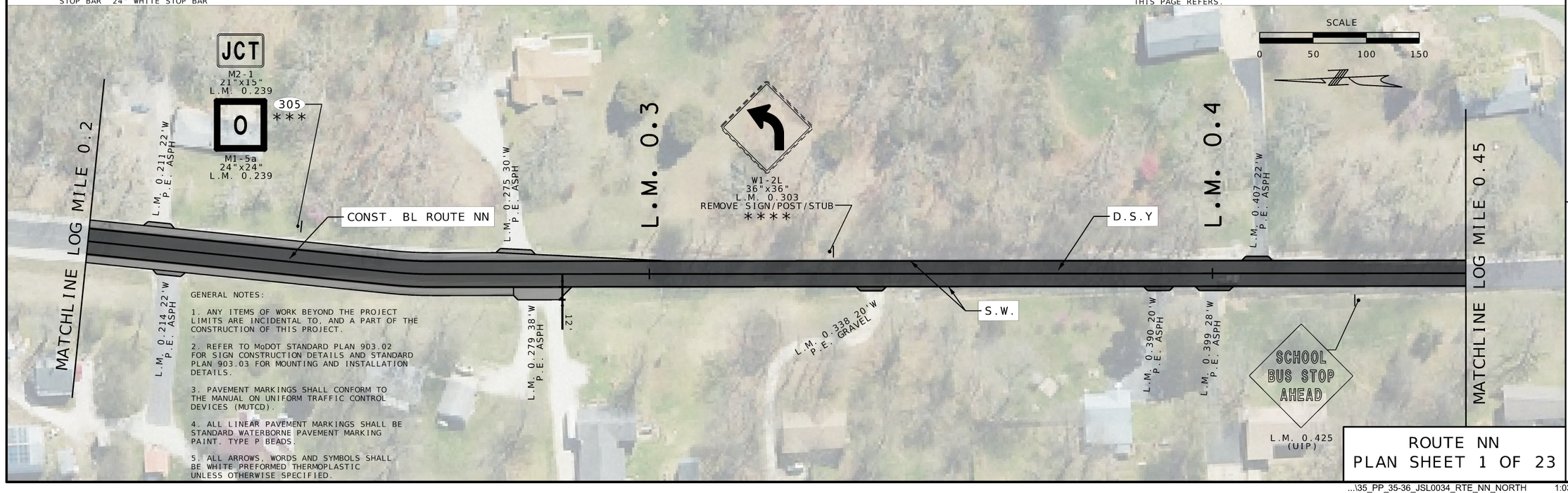


GENERAL NOTES:

1. ANY ITEMS OF WORK BEYOND THE PROJECT LIMITS ARE INCIDENTAL TO, AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

2. REFER TO MoDOT STANDARD PLAN 903.02 FOR SIGN CONSTRUCTION DETAILS AND STANDARD PLAN 903.03 FOR MOUNTING AND INSTALLATION DETAILS.

3. PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

4. ALL LINEAR PAVEMENT MARKINGS SHALL BE STANDARD WATERBORNE PAVEMENT MARKING PAINT. TYPE P BEADS.

5. ALL ARROWS, WORDS AND SYMBOLS SHALL BE WHITE PREFORMED THERMOPLASTIC UNLESS OTHERWISE SPECIFIED.

ROUTE NN
PLAN SHEET 1 OF 23

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
PE 2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	35

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

CONTRACT ID.

PROJECT NO.

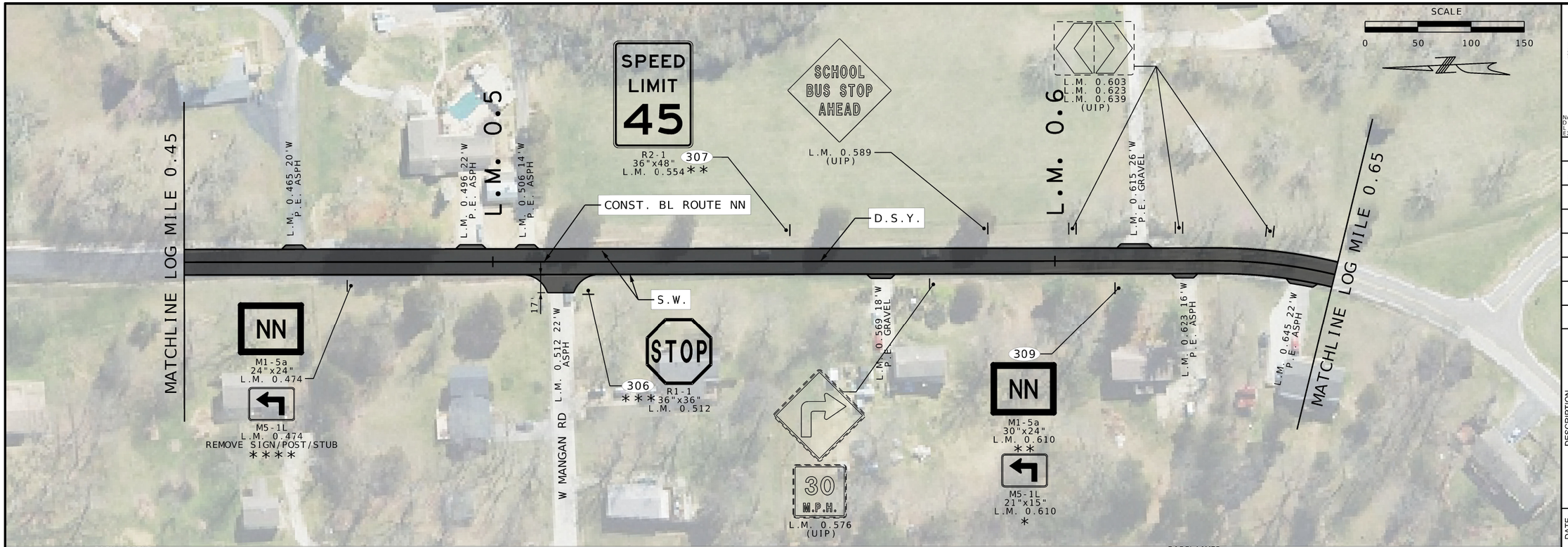
BRIDGE NO.

DATE	DESCRIPTION

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

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-4986 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

...\35_PP_35-36_JSL0034_RTE_NN_NORTH 1:03:26 PM 8/8/2024



SIGN LEGEND
* INSTALL NEW SIGN, POST & STUB
** REMOVE & REPLACE SIGN, POST & STUB
*** REMOVE AND REPLACE SIGN ONLY
**** REMOVE SIGN, POST & STUB

STRIPING LEGEND
S.W. 4" SOLID WHITE
D.S.Y. 4" DOUBLE SOLID YELLOW
STOP BAR 24" WHITE STOP BAR

PAVEMENT LEGEND
MILL AND RESURFACE 2" BP-1
MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

ENTRANCE LEGEND
C.E. COMMERCIAL LEGEND
P.E. PRIVATE ENTRANCE
F.E. FIELD ENTRANCE

DISCLAIMER
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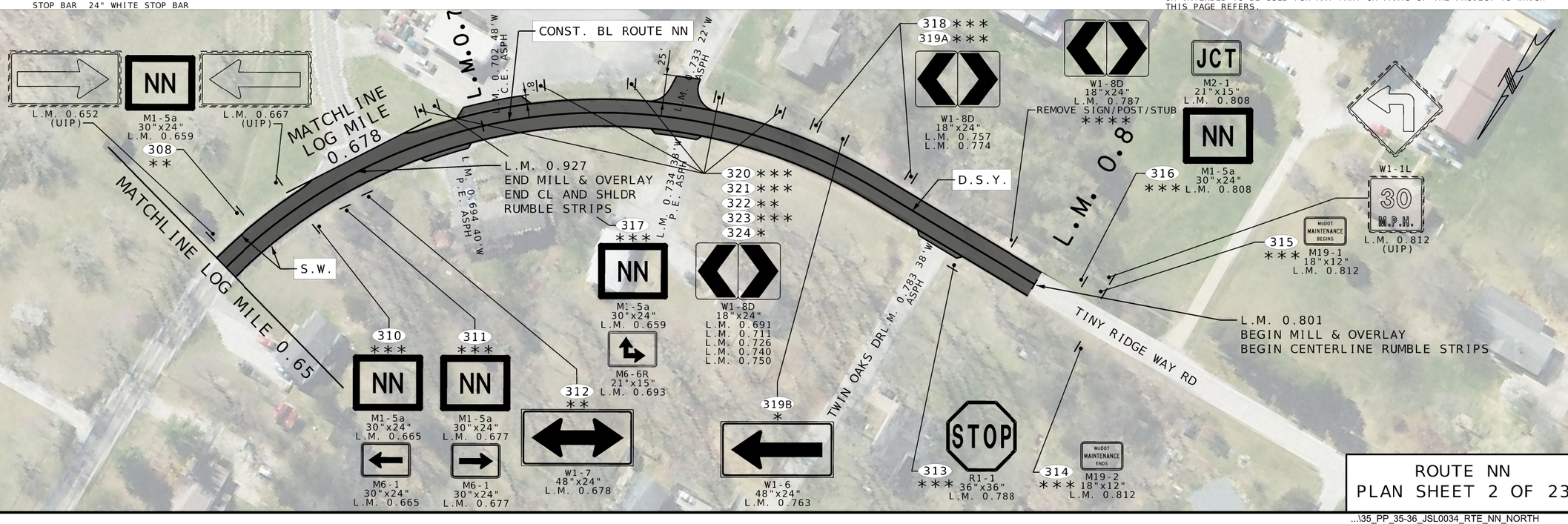


ROUTE NN
PLAN SHEET 2 OF 23

STEPHEN T. SICHMELLER NUMBER PE-2024017802 STATE OF MISSOURI PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED 8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	36

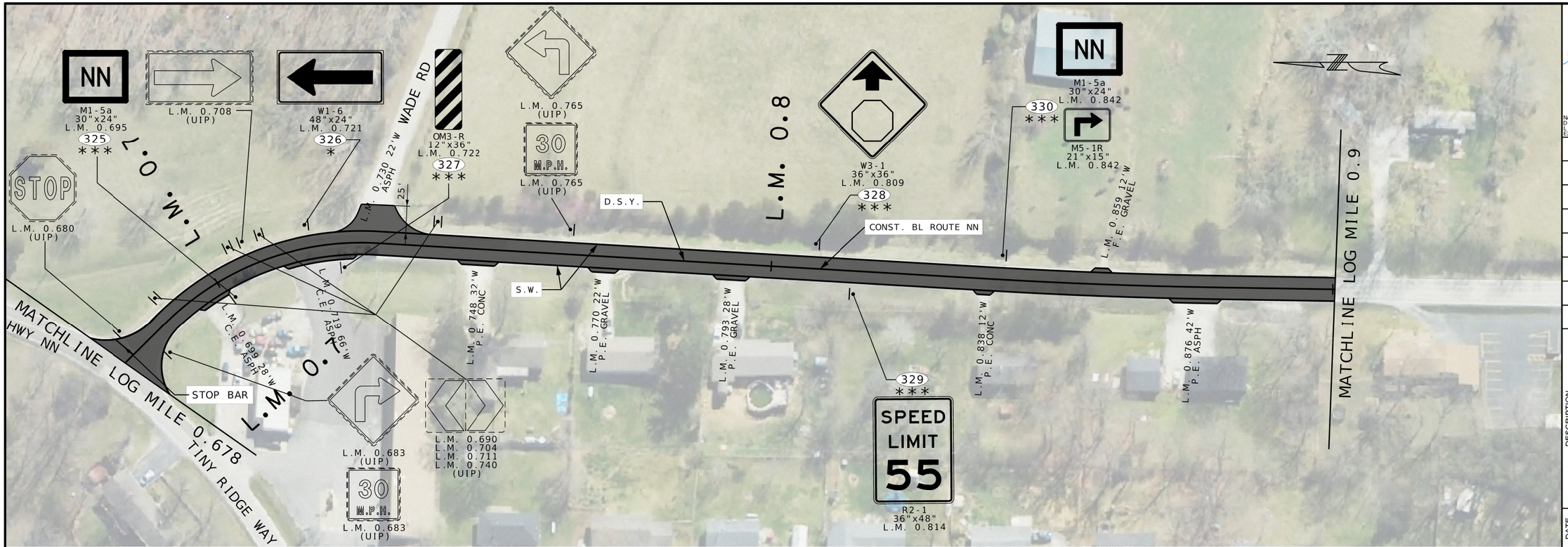
COUNTY FRANK./JEFF.
JOB NO. JSL0034
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION
DATE

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

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-4986 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

...\35_PP_35-36_JSL0034_RTE_NN_NORTH 3:56:28 PM 8/8/2024



SIGN LEGEND
* INSTALL NEW SIGN, POST & STUB
** REMOVE & REPLACE SIGN, POST & STUB
*** REMOVE AND REPLACE SIGN ONLY
**** REMOVE SIGN, POST & STUB

STRIPING LEGEND
S.W. 4" SOLID WHITE
D.S.Y. 4" DOUBLE SOLID YELLOW
STOP BAR 24" WHITE STOP BAR

PAVEMENT LEGEND
MILL AND RESURFACE 2" BP-1
MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

ENTRANCE LEGEND
C.E. COMMERCIAL LEGEND
P.E. PRIVATE ENTRANCE
F.E. FIELD ENTRANCE

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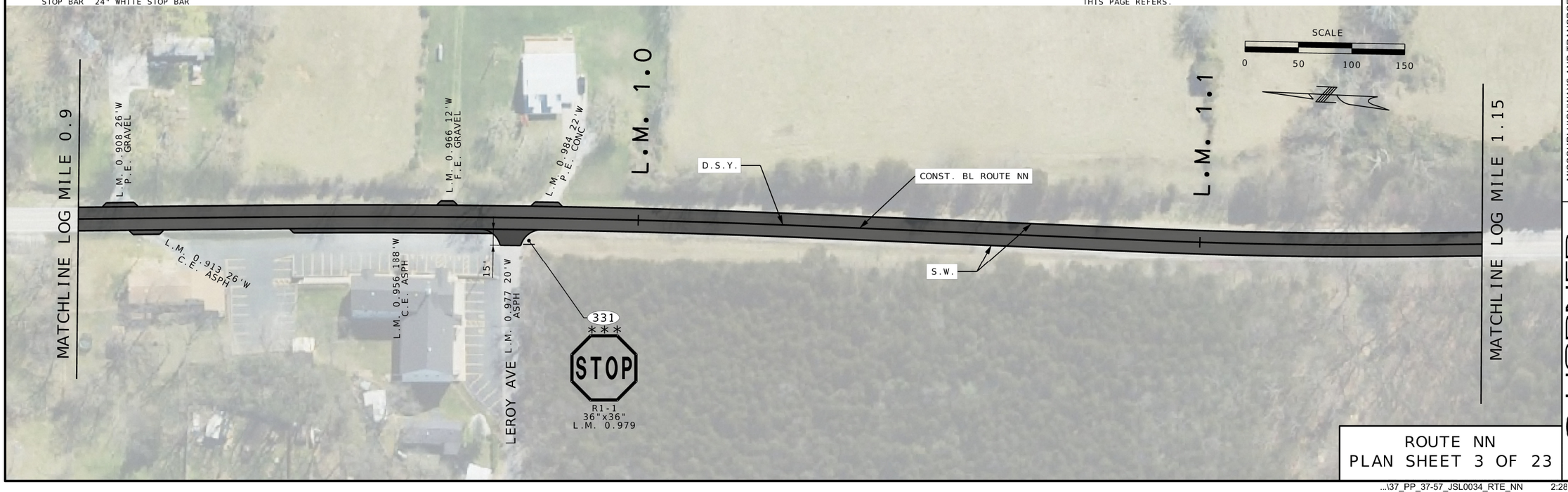


ROUTE NN
PLAN SHEET 3 OF 23

...\37_PP_37-57_JSL0034_RTE_NN 2:28:01 PM 8/6/2024

STATE OF MISSOURI
STEPHEN T. SICHMELLER
E-NUMBER
PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/6/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	37

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

CONTRACT ID.

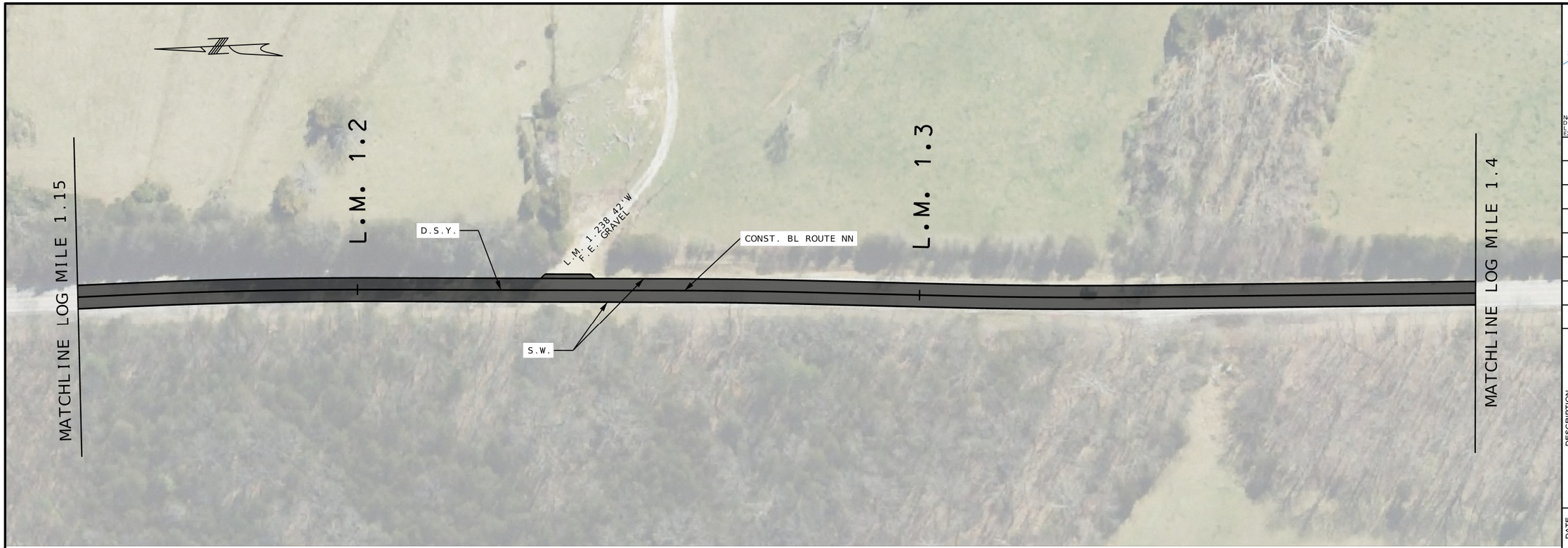
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 FAX 314-531-4686 WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024



SIGN LEGEND
* INSTALL NEW SIGN, POST & STUB
** REMOVE & REPLACE SIGN, POST & STUB
*** REMOVE AND REPLACE SIGN ONLY
**** REMOVE SIGN, POST & STUB

STRIPING LEGEND
S.W. 4" SOLID WHITE
D.S.Y. 4" DOUBLE SOLID YELLOW
STOP BAR 24" WHITE STOP BAR

PAVEMENT LEGEND
MILL AND RESURFACE 2" BP-1
MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

ENTRANCE LEGEND
C.E. COMMERCIAL LEGEND
P.E. PRIVATE ENTRANCE
F.E. FIELD ENTRANCE

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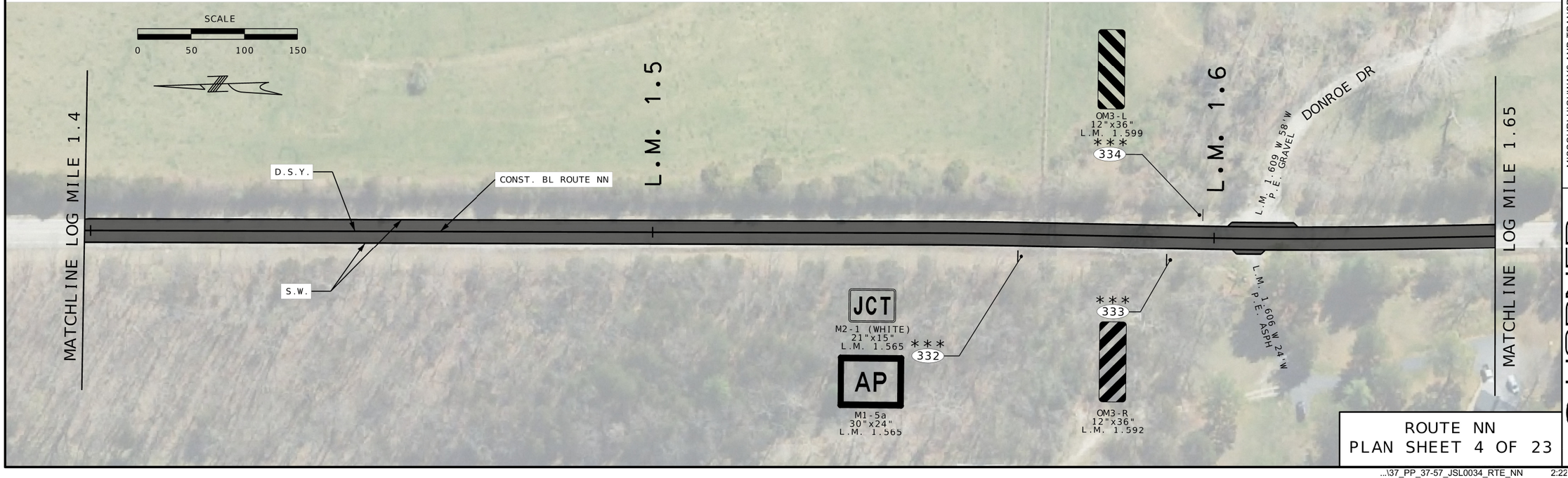

ROUTE NN
PLAN SHEET 4 OF 23

STEPHEN T. SICHMELLER
PE-2024017802
NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED 8/6/2024
ROUTE O/F/NN
STATE MO
DISTRICT SL
SHEET NO. 38
COUNTY FRANK./JEFF.
JOB NO. JSL0034
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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4221 • FAX 314-436-0966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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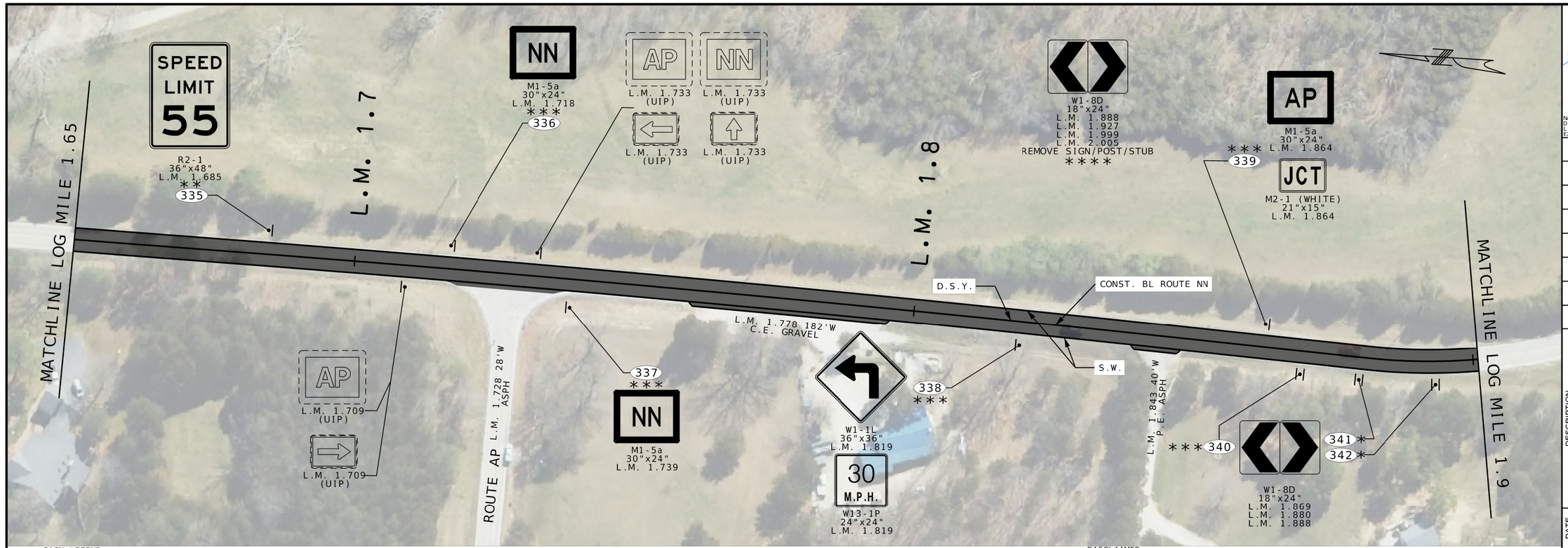

SIGN LEGEND
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** REMOVE & REPLACE SIGN, POST & STUB
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STRIPING LEGEND
S.W. 4" SOLID WHITE
D.S.Y. 4" DOUBLE SOLID YELLOW
STOP BAR 24" WHITE STOP BAR

PAVEMENT LEGEND
MILL AND RESURFACE 2" BP-1
MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

ENTRANCE LEGEND
C.E. COMMERCIAL LEGEND
P.E. PRIVATE ENTRANCE
F.E. FIELD ENTRANCE

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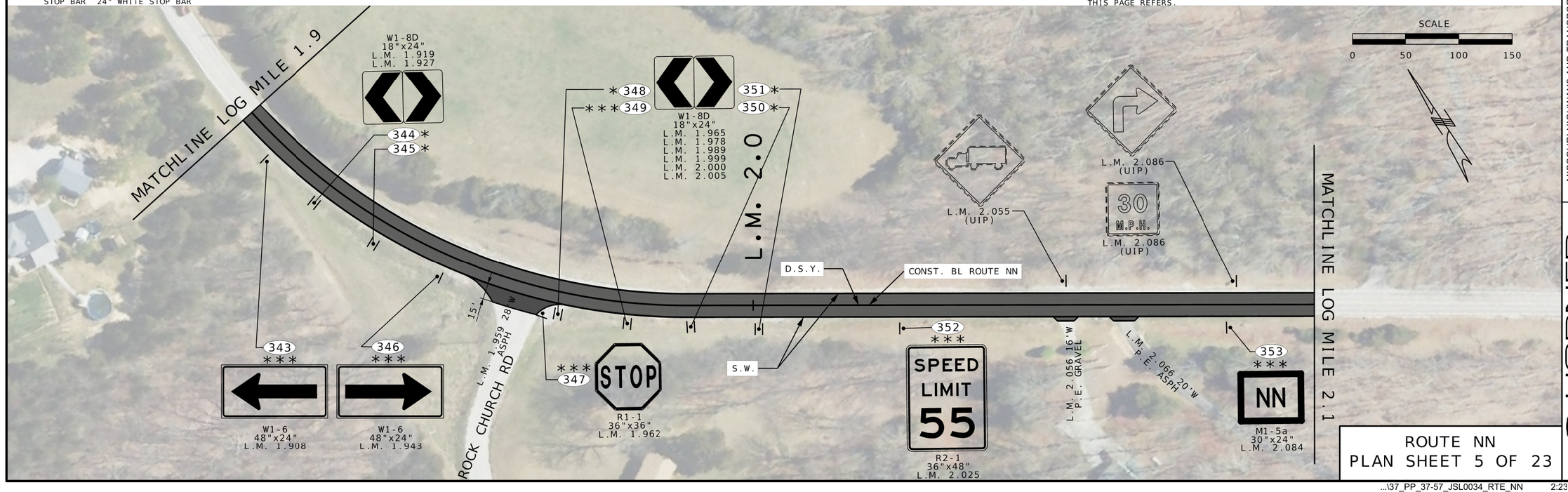

ROUTE NN
PLAN SHEET 5 OF 23

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED: 8/6/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	39

COUNTY: FRANK./JEFF.
JOB NO.: JSL0034
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION
DATE

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

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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MATCHLINE LOG MILE 2.1

L.M. 2.111 30'W
P.E. ASPH

POW-MIA County
L.M. 2.126
(UIP)

ENTERING FRANKLIN COUNTY
L.M. 2.137
(UIP)

L.M. 2.2

D.S.Y.

CONST. BL ROUTE NN

S.W.

L.M. 2.180 38'W
F.E. GRAVEL

ENTERING Jefferson COUNTY
L.M. 2.146
(UIP)

L.M. 2.113
(UIP)

50 M.P.H.
L.M. 2.113
(UIP)

L.M. 2.236 26'W
P.E. GRAVEL

L.M. 2.260
(UIP)

50 M.P.H.
L.M. 2.260
(UIP)

L.M. 2.236 44'W
GRAVEL
DEER RUN

L.M. 2.250
(UIP)

35 M.P.H.
L.M. 2.250
(UIP)

MATCHLINE LOG MILE 2.3

SIGN LEGEND
* INSTALL NEW SIGN, POST & STUB
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STRIPING LEGEND
S.W. 4" SOLID WHITE
D.S.Y. 4" DOUBLE SOLID YELLOW
STOP BAR 24" WHITE STOP BAR

PAVEMENT LEGEND
MILL AND RESURFACE 2" BP-1
MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

ENTRANCE LEGEND
C.E. COMMERCIAL LEGEND
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SCALE
0 50 100 150

L.M. 2.370 56'W
ASPH

SIGNAL HILL

L.M. 2.4

* 354 355 *
* 356 357 *
W1-8D
18"x24"
L.M. 2.315
L.M. 2.330
L.M. 2.347
L.M. 2.362

* 358 359 *
* 360 361 *
W1-8D
18"x24"
L.M. 2.377
L.M. 2.391
L.M. 2.406
L.M. 2.420

D.S.Y.

L.M. 2.463 20'W
P.E. CONC

CONST. BL ROUTE NN

L.M. 2.5

L.M. 2.452
(UIP)

L.M. 2.466 20'W
P.E. ASPH

35 M.P.H.
L.M. 2.452
(UIP)

SPEED LIMIT 55
L.M. 2.487
(UIP)

L.M. 2.549
(UIP)

45 M.P.H.
L.M. 2.549
(UIP)

S.W.

L.M. 2.537 28'W
P.E. ASPH

L.M. 2.543 60'W
GRAVEL
APKE LN

MATCHLINE LOG MILE 2.55

MATCHLINE LOG MILE 2.3

ROUTE NN
PLAN SHEET 6 OF 23

STEPHEN T. SICHMELLER
NUMBER: PE-2024017802
STATE OF MISSOURI
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	40

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-4069 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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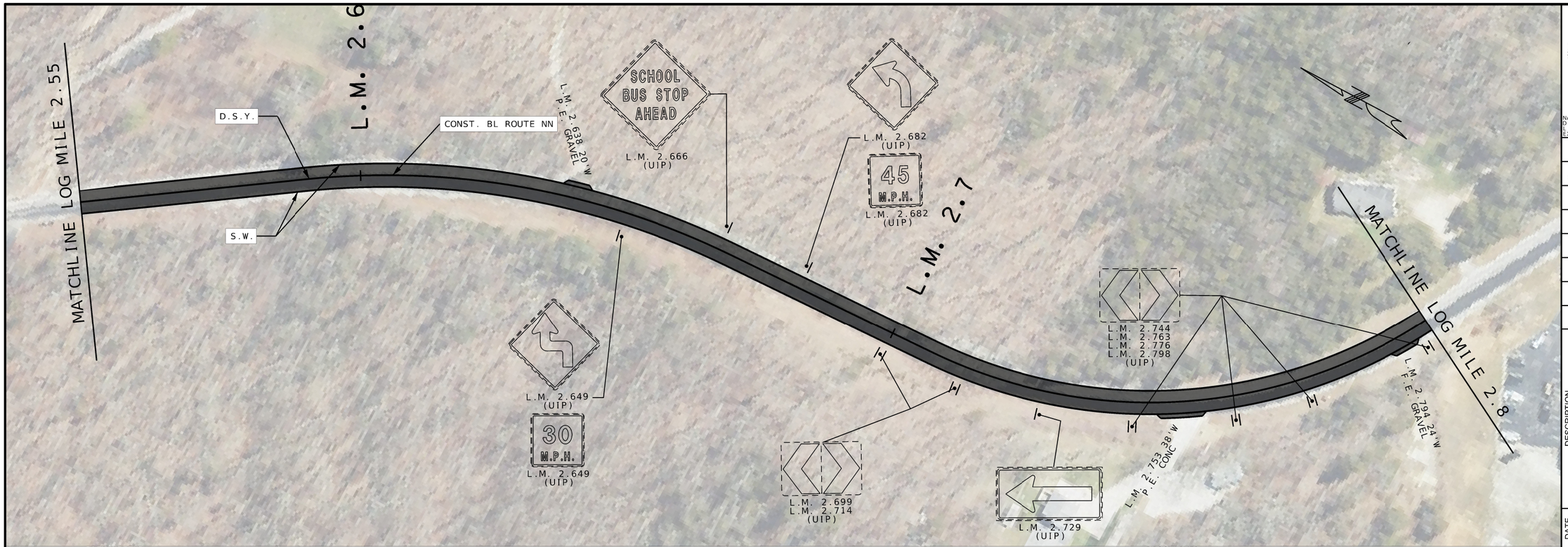

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STRIPING LEGEND
S.W. 4" SOLID WHITE
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STOP BAR 24" WHITE STOP BAR

PAVEMENT LEGEND
MILL AND RESURFACE 2" BP-1
MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

ENTRANCE LEGEND
C.E. COMMERCIAL
P.E. PRIVATE ENTRANCE
F.E. FIELD ENTRANCE

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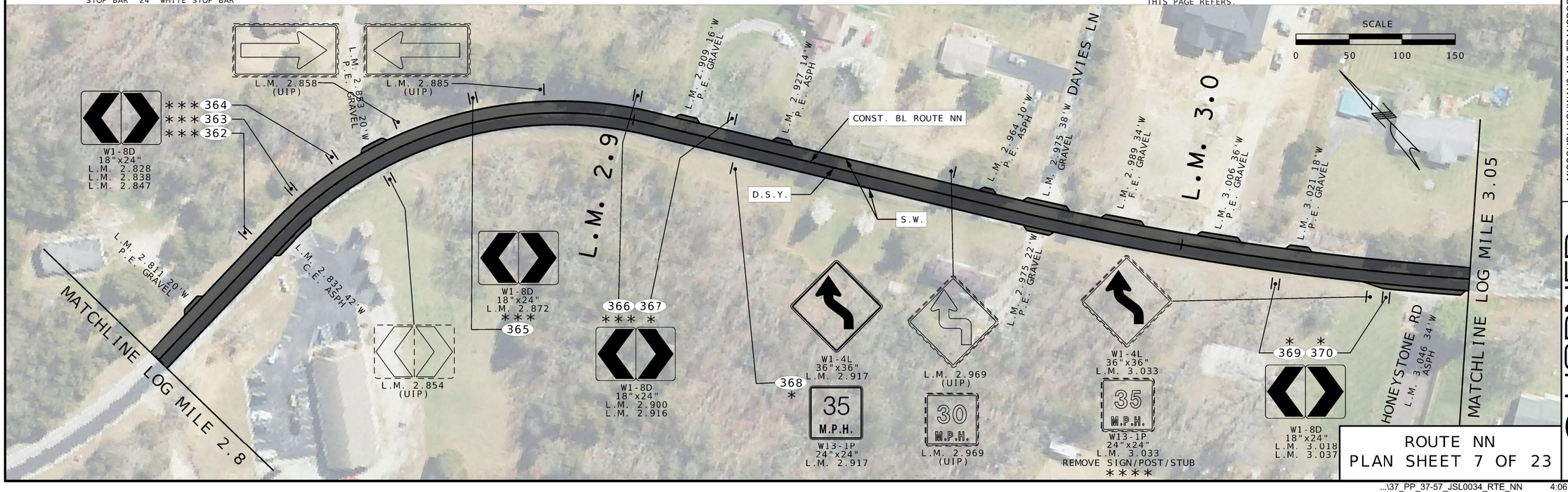

ROUTE NN
PLAN SHEET 7 OF 23

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER: PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED: 8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	41

COUNTY: FRANK./JEFF.
JOB NO.: JSL0034
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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-4986 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

MATCHLINE LOG MILE 3.05

MATCHLINE LOG MILE 3.3

L.M. 3.1

L.M. 3.2

L.M. 3.4

L.M. 3.5

* 371
* 372
* 373
* 374

W1-8D
18"x24"
L.M. 3.053
L.M. 3.068
L.M. 3.083
L.M. 3.097

* 376
* 376
* 377

W1-8D
18"x24"
L.M. 3.113
L.M. 3.128
L.M. 3.143
L.M. 3.158
L.M. 3.174
L.M. 3.189

380 *
379 *
378 *

L.M. 3.178 24'W
P.E. GRAVEL

L.M. 3.182 24'W
P.E. GRAVEL

L.M. 3.199 28'W
P.E. GRAVEL

D.S.Y.

S.W.

CONST. BL ROUTE NN

W1-8D
18"x24"
L.M. 3.210
L.M. 3.225
L.M. 3.241
L.M. 3.255

* 381 383 *
* 382 384 *

SCHOOL BUS STOP AHEAD

L.M. 3.276
(UIP)

SCHOOL BUS STOP AHEAD

L.M. 3.086
P.E. GRAVEL 18'W

L.M. 3.056
(UIP)

* 385
* 386

W1-8D
18"x24"
L.M. 3.348
L.M. 3.365
L.M. 3.381
L.M. 3.397

387 *
388 *

L.M. 3.429 42'W
GRAVEL

L.M. 3.446 26'W
P.E. GRAVEL

L.M. 3.460 38'W
P.E. GRAVEL

L.M. 3.509 34'W
P.E. GRAVEL

L.M. 3.313
(UIP)

L.M. 3.309
(UIP)

35 M.P.H.

L.M. 3.313
(UIP)

35 M.P.H.

L.M. 3.309
(UIP)

E. CEDAR LN

* 389
* 390

W1-8D
18"x24"
L.M. 3.412
L.M. 3.427
L.M. 3.443
L.M. 3.459

391 *
392 *

SCHOOL BUS STOP AHEAD

L.M. 3.487
(UIP)

* 393
* 394
* 395
* 396

W1-8D
18"x24"
L.M. 3.498
L.M. 3.514
L.M. 3.528
L.M. 3.543

SCALE
0 50 100 150

SIGN LEGEND
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STOP BAR 24" WHITE STOP BAR

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MILL AND RESURFACE 2" BP-1
MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

ENTRANCE LEGEND
C.E. COMMERCIAL LEGEND
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ROUTE NN
PLAN SHEET 8 OF 23

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
PE 2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	42

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-4066 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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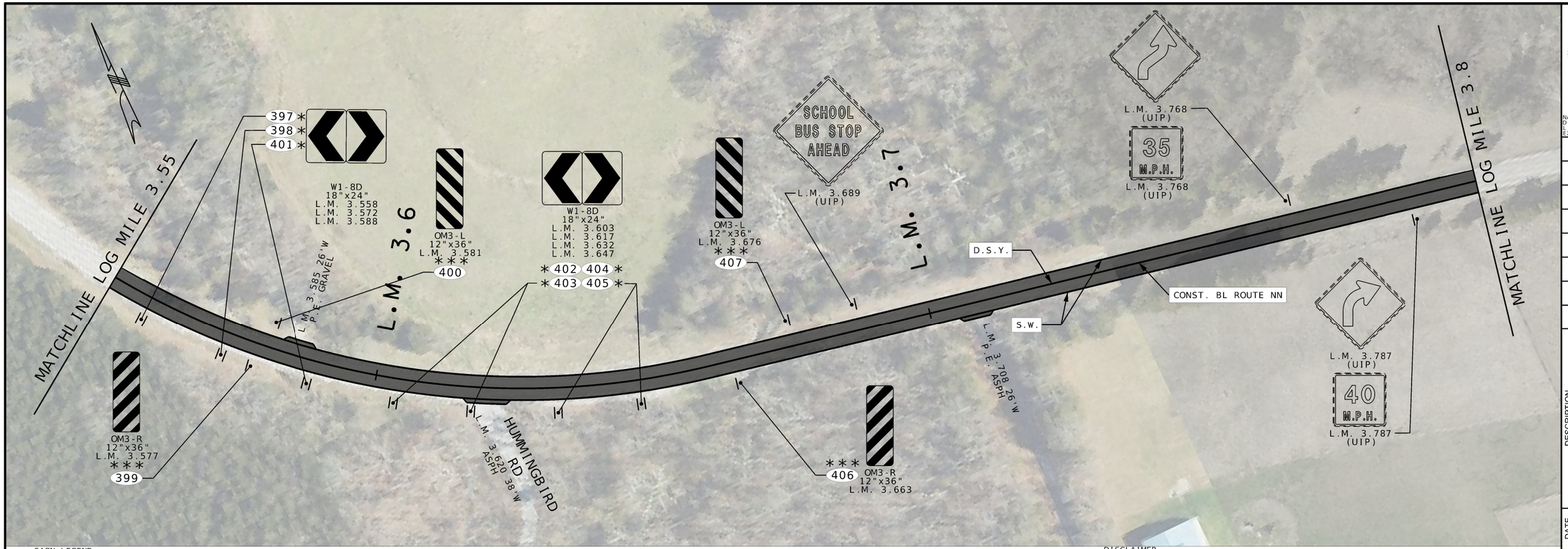

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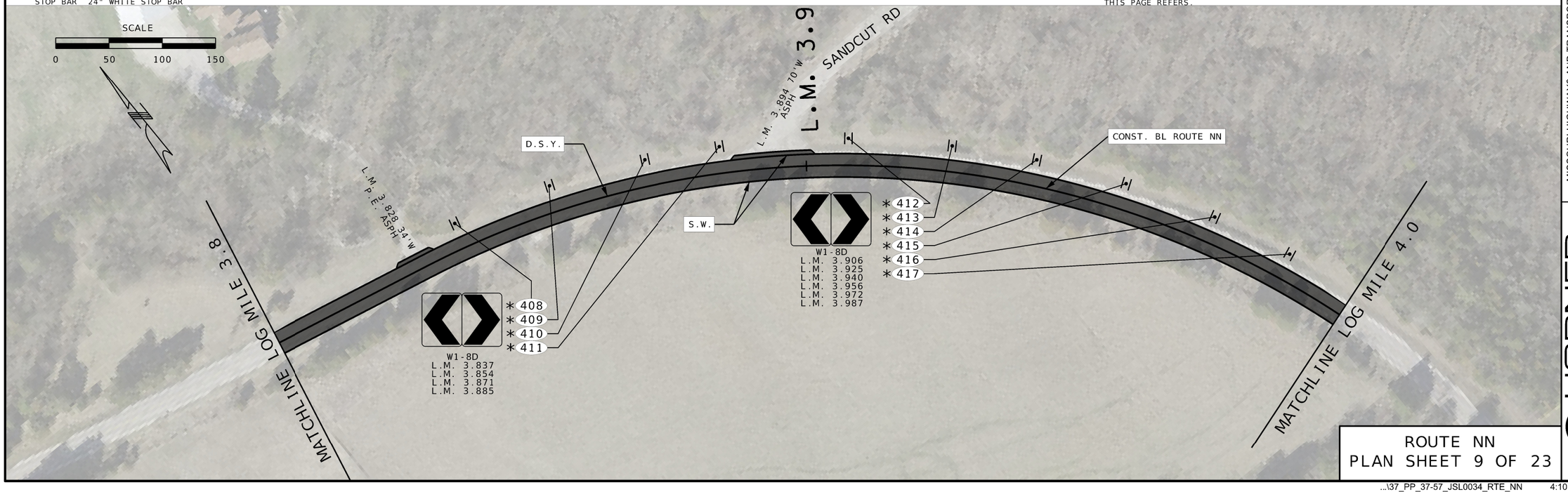

ROUTE NN
PLAN SHEET 9 OF 23

...\37_PP_37-57_JSL0034_RTE_NN 4:10:06 PM 8/8/2024

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
PE: 2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO.: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED 8/8/2024
ROUTE O/F/NN
STATE MO
DISTRICT SL
SHEET NO. 43
COUNTY FRANK./JEFF.
JOB NO. JSL0034
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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4221 • FAX 314-531-4066 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
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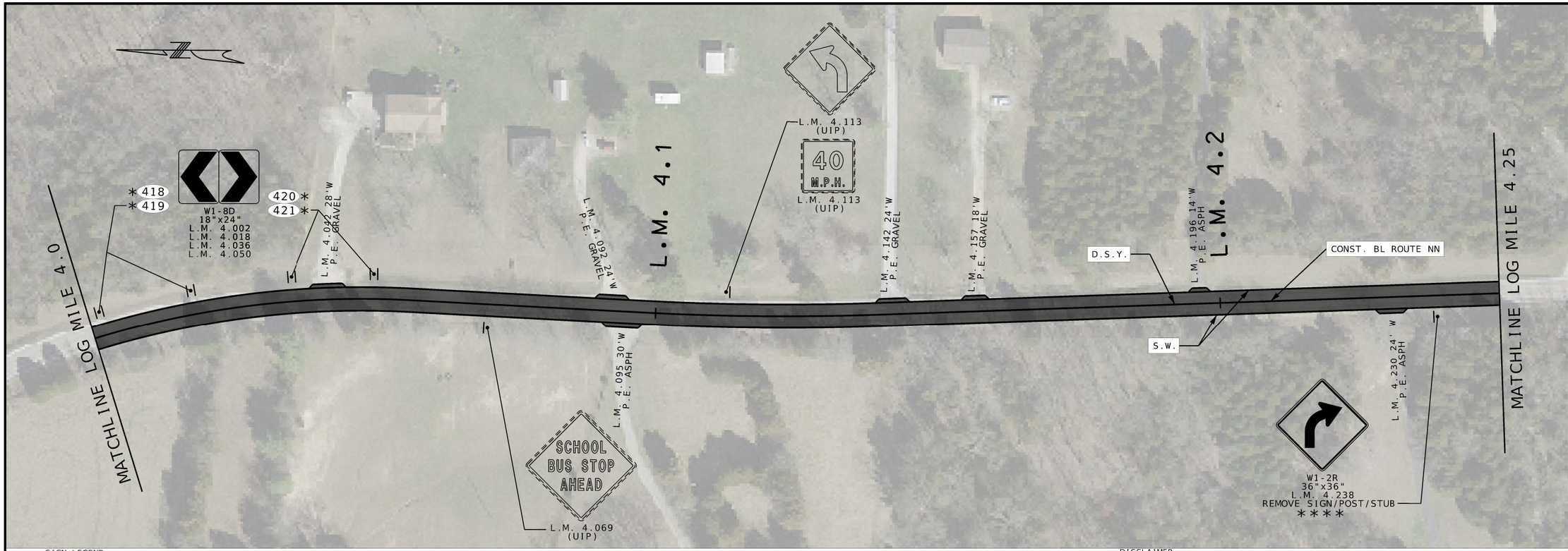

SIGN LEGEND
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STRIPING LEGEND
S.W. 4" SOLID WHITE
D.S.Y. 4" DOUBLE SOLID YELLOW
STOP BAR 24" WHITE STOP BAR

PAVEMENT LEGEND
MILL AND RESURFACE 2" BP-1
MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

ENTRANCE LEGEND
C.E. COMMERCIAL LEGEND
P.E. PRIVATE ENTRANCE
F.E. FIELD ENTRANCE

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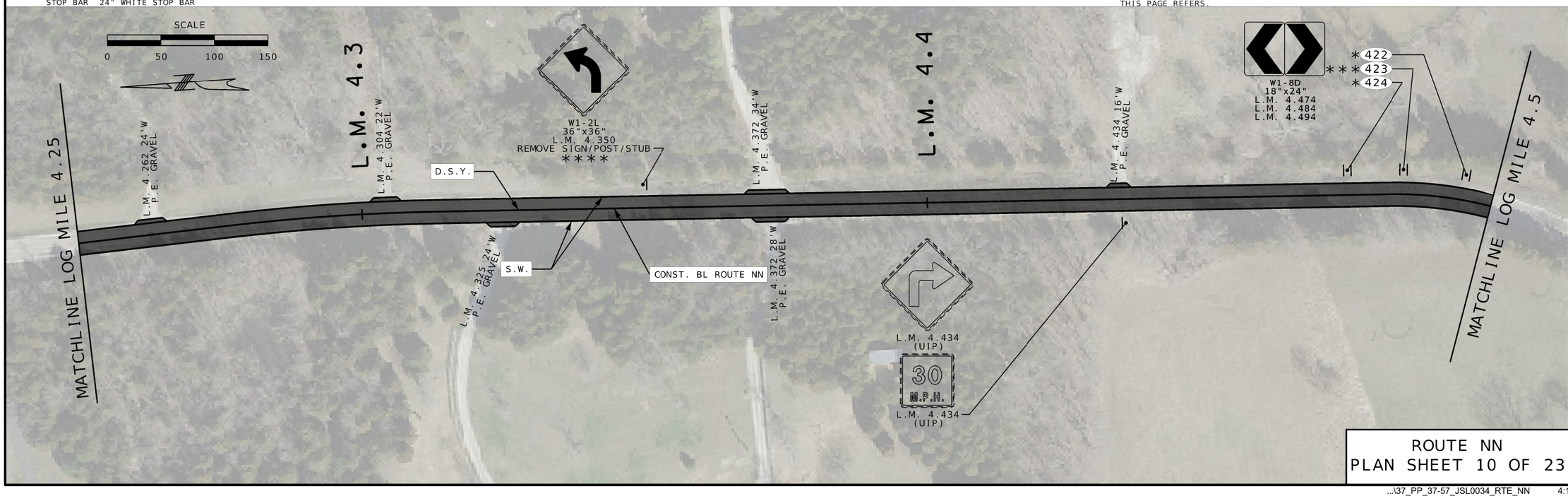


ROUTE NN
PLAN SHEET 10 OF 23

STEPHEN T. SICHMELLER NUMBER PE-2024017802 STATE OF MISSOURI PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	44

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

CONTRACT ID.

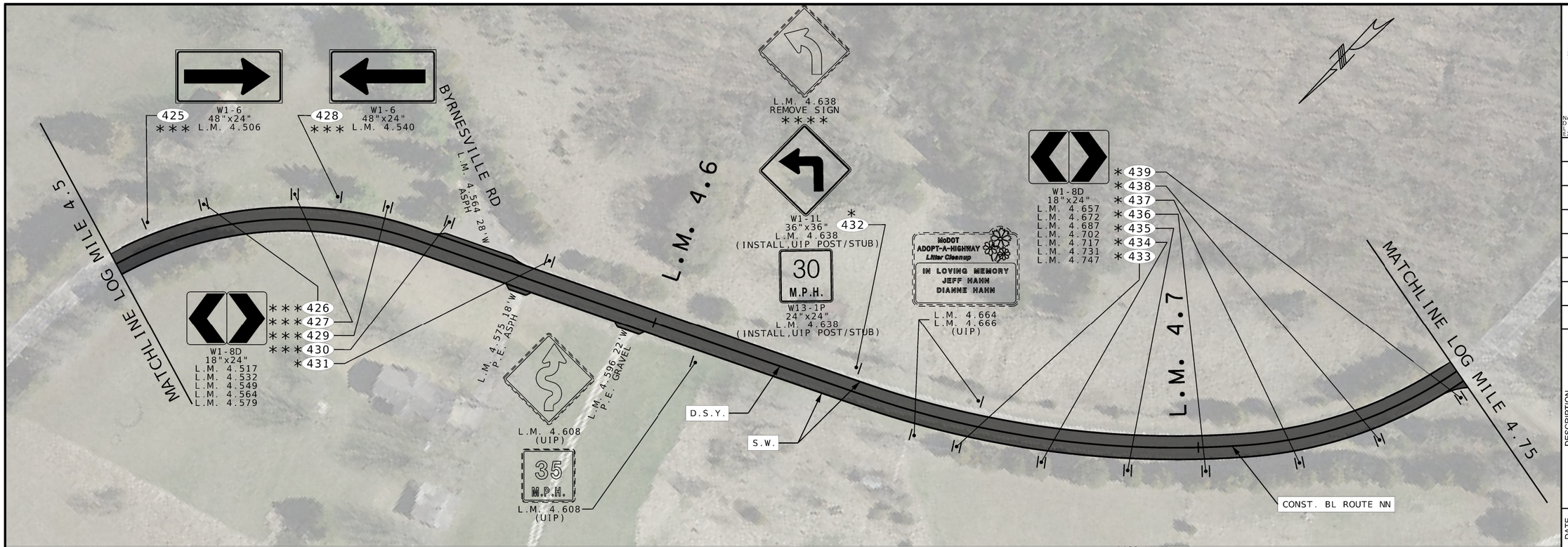
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4221 • FAX 314-531-4066 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024



SIGN LEGEND
* INSTALL NEW SIGN, POST & STUB
** REMOVE & REPLACE SIGN, POST & STUB
*** REMOVE AND REPLACE SIGN ONLY
**** REMOVE SIGN, POST & STUB

STRIPING LEGEND
S.W. 4" SOLID WHITE
D.S.Y. 4" DOUBLE SOLID YELLOW
STOP BAR 24" WHITE STOP BAR

PAVEMENT LEGEND
MILL AND RESURFACE 2" BP-1
MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

ENTRANCE LEGEND
C.E. COMMERCIAL LEGEND
P.E. PRIVATE ENTRANCE
F.E. FIELD ENTRANCE

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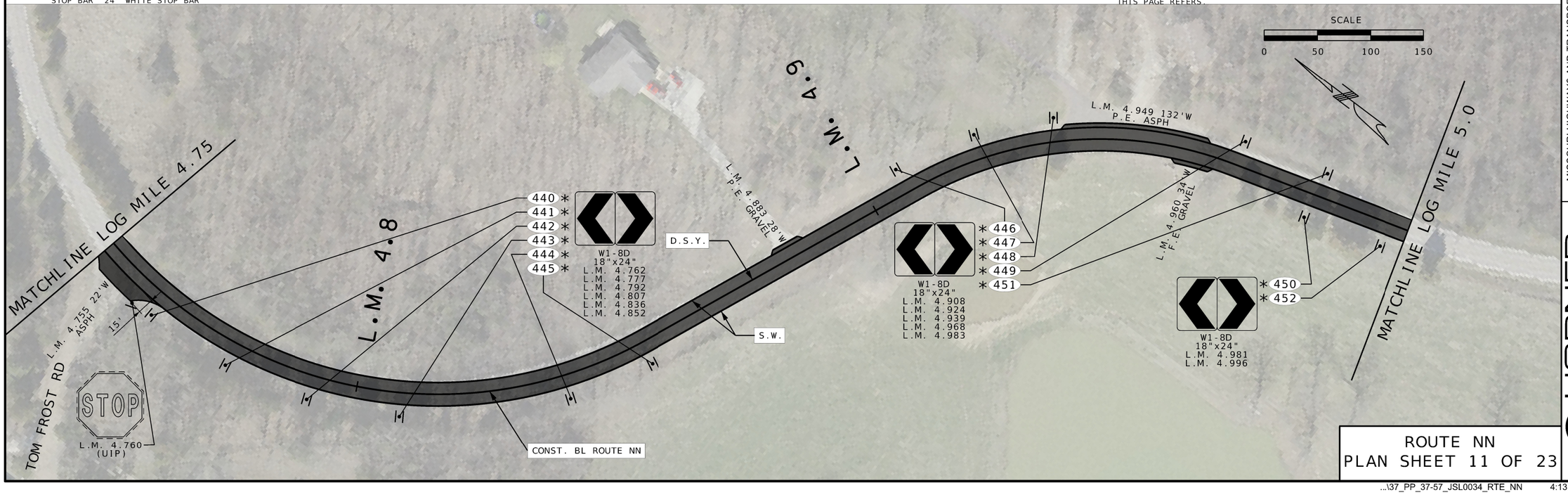

ROUTE NN
PLAN SHEET 11 OF 23

STEPHEN T. SICHMELLER
NUMBER
PE: 2024017802
STATE OF MISSOURI
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED 8/8/2024
ROUTE O/F/NN
STATE MO
DISTRICT SL
SHEET NO. 45
COUNTY FRANK./JEFF.
JOB NO. JSL0034
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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-4986 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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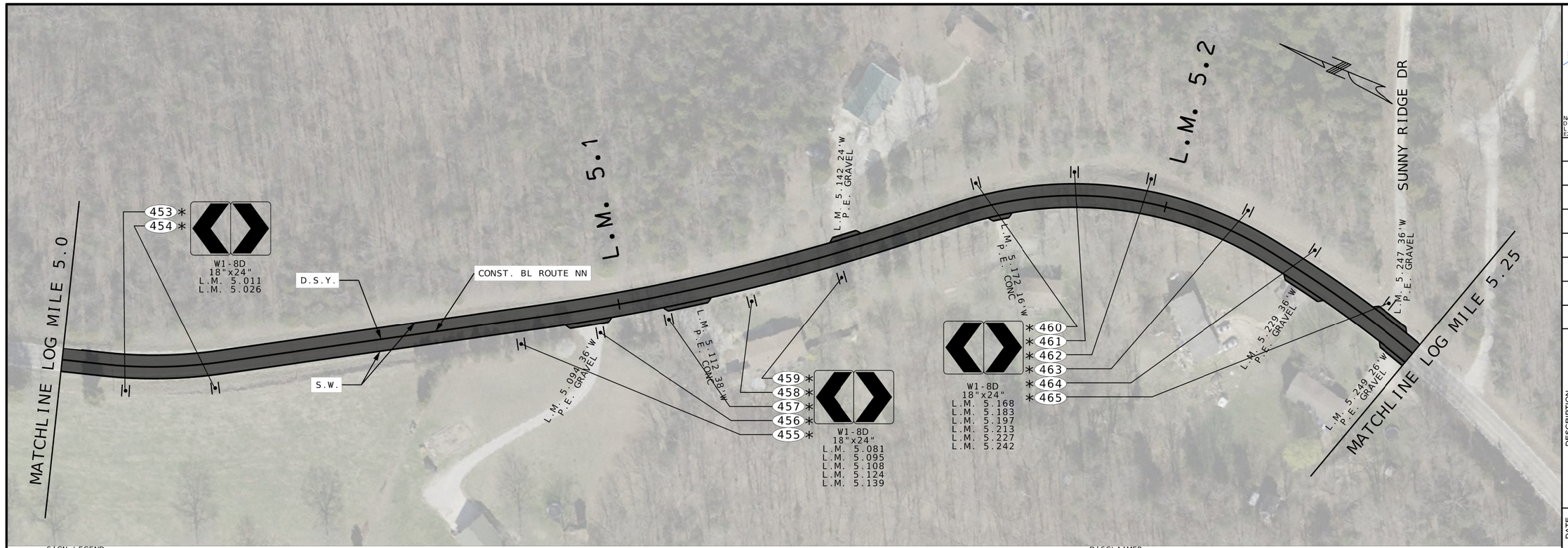

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MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

ENTRANCE LEGEND
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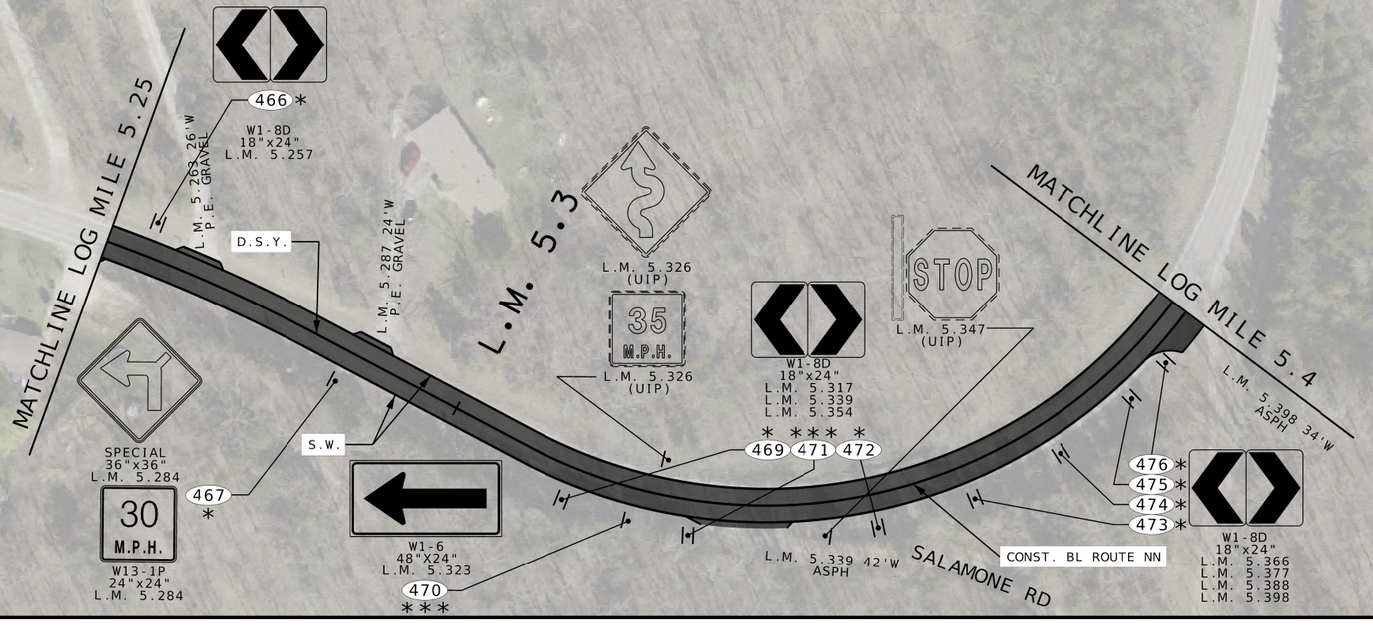


SCALE
0 50 100 150

ROUTE NN
PLAN SHEET 12 OF 23

STEPHEN T. SICHMELLER
NUMBER
PE-2024017802
PROFESSIONAL ENGINEER
STATE OF MISSOURI

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/6/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	46

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

CONTRACT ID.

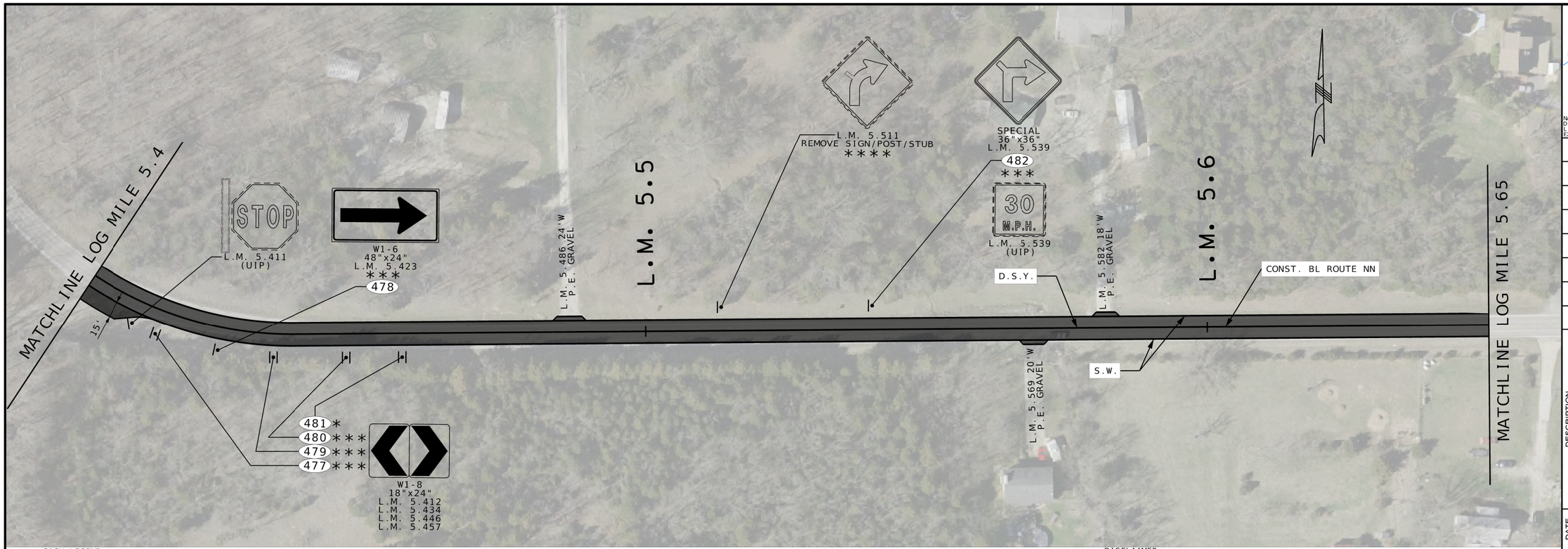
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4225 • FAX 314-436-2405 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024



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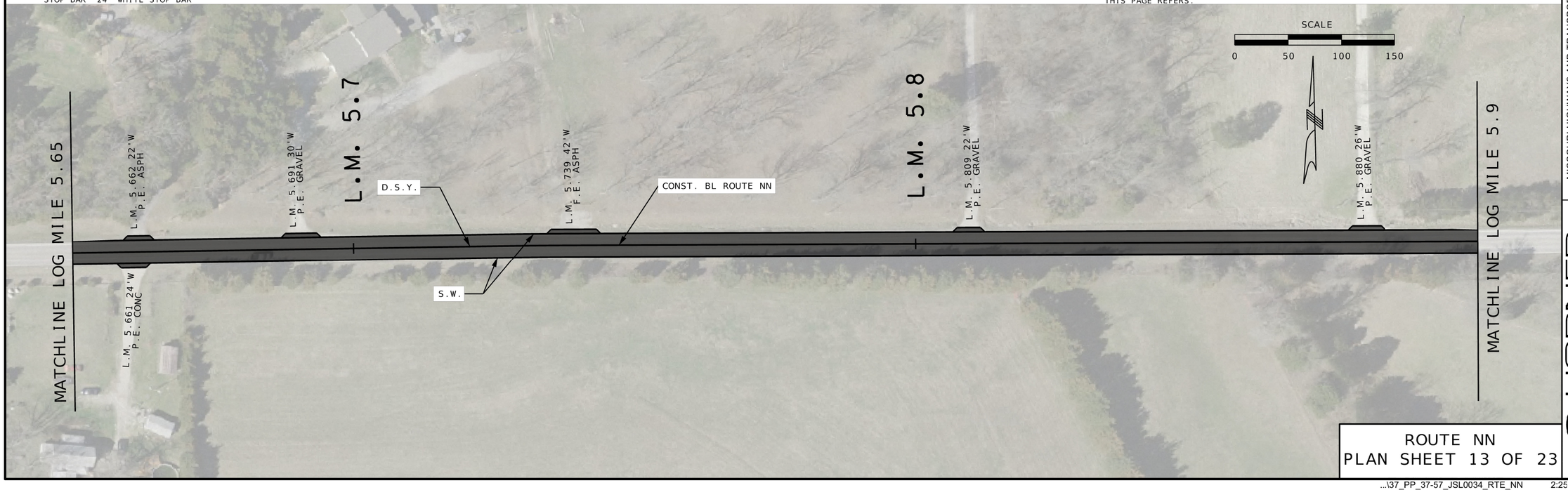

ROUTE NN
PLAN SHEET 13 OF 23

STATE OF MISSOURI
STEPHEN T. SICHMELLER
E-NUMBER
PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO.: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/6/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	47

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

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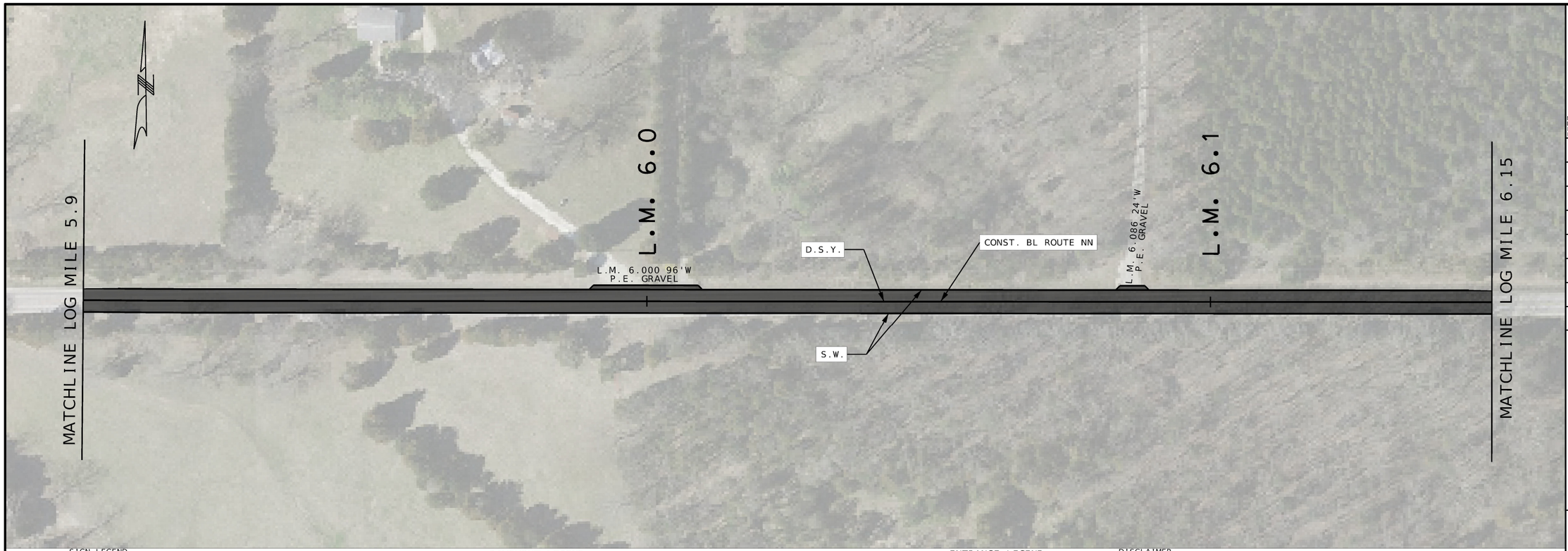
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024



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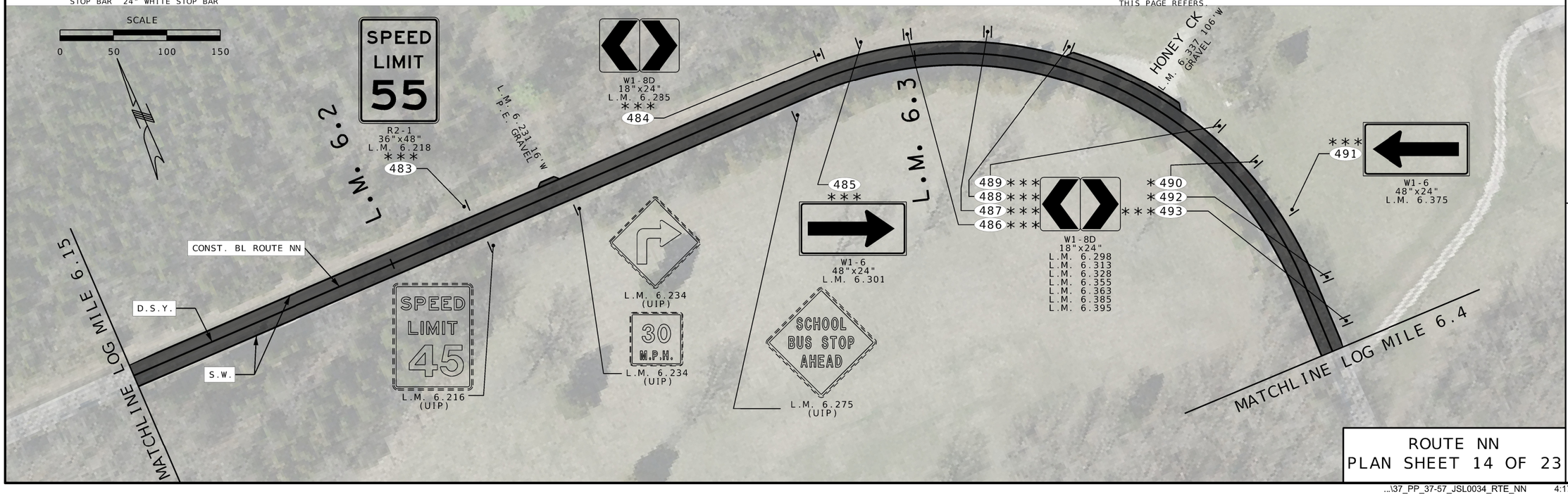


ROUTE NN
PLAN SHEET 14 OF 23

STEPHEN T. SICHMELLER
NUMBER
PE: 2024017802
STATE OF MISSOURI
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED 8/8/2024

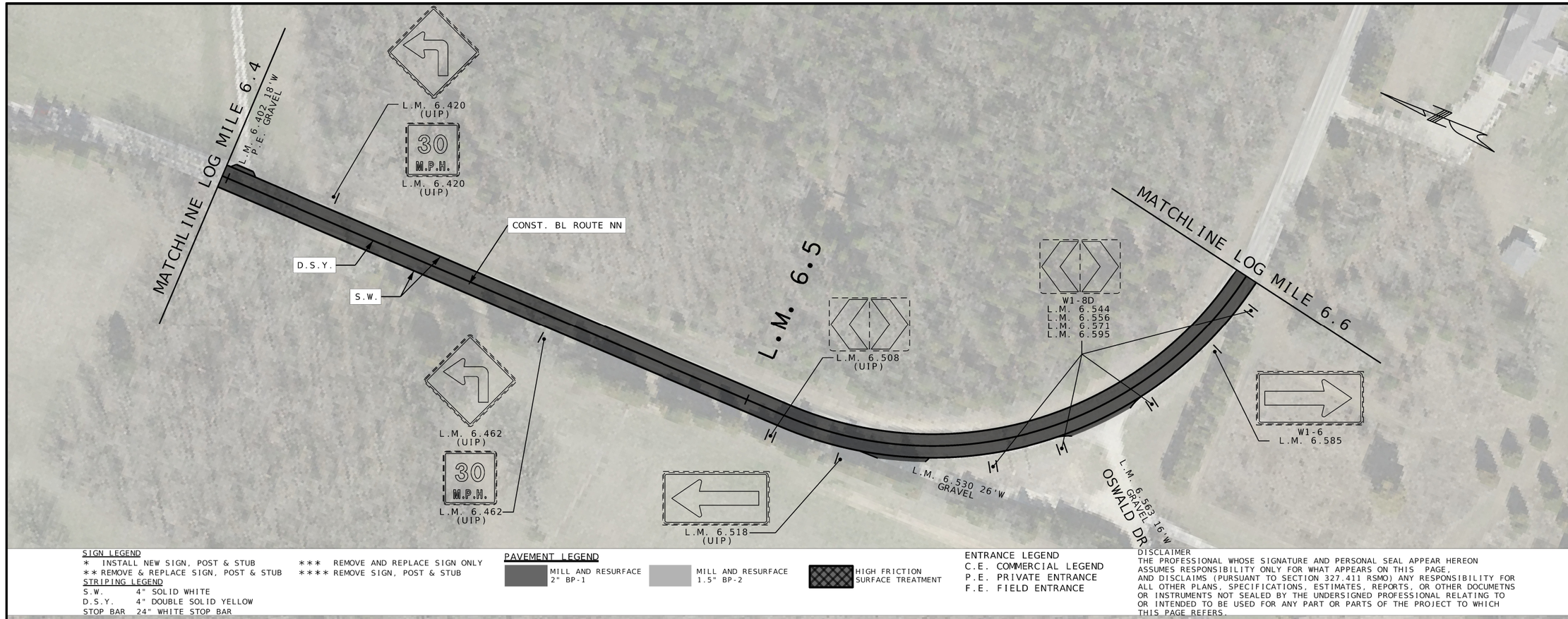
ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	48

COUNTY FRANK./JEFF.
JOB NO. JSL0034
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)

HORNER & SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-231-4224 • FAX 314-231-4656 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024



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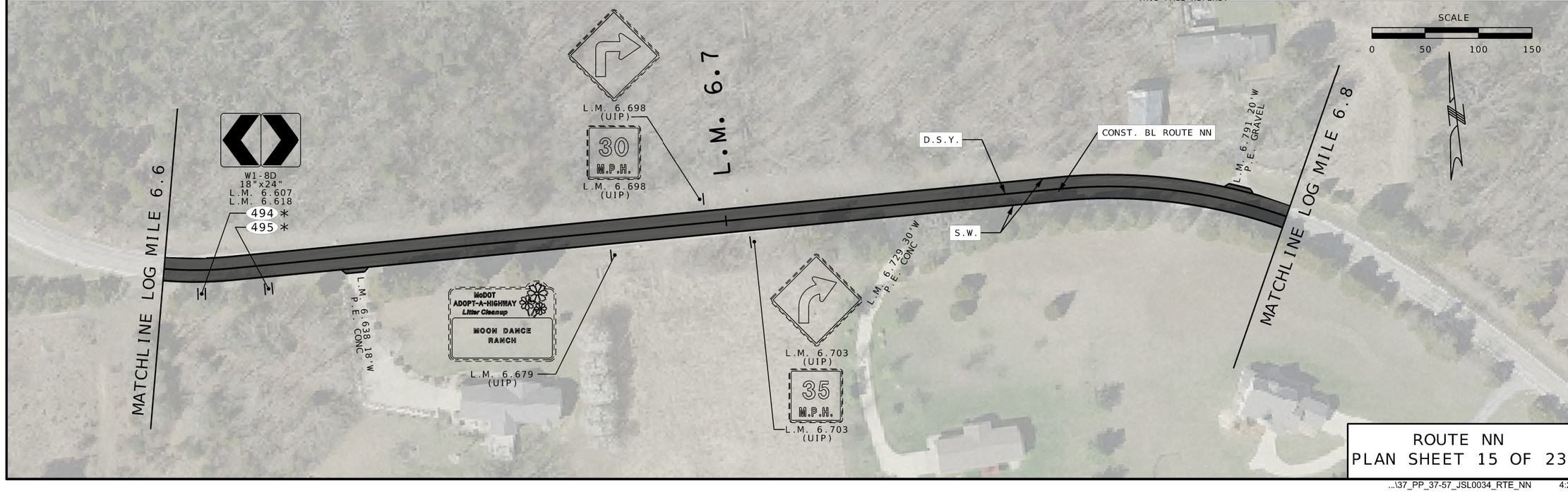

ROUTE NN
PLAN SHEET 15 OF 23

STEPHEN T. SICHMELLER NUMBER PE-2024017802 STATE OF MISSOURI PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED: 8/8/2024

ROUTE	STATE
O/F/NN	MO

DISTRICT	SHEET NO.
SL	49

COUNTY: FRANK./JEFF.
JOB NO.: JSL0034
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)

HORNER SHIFRIN
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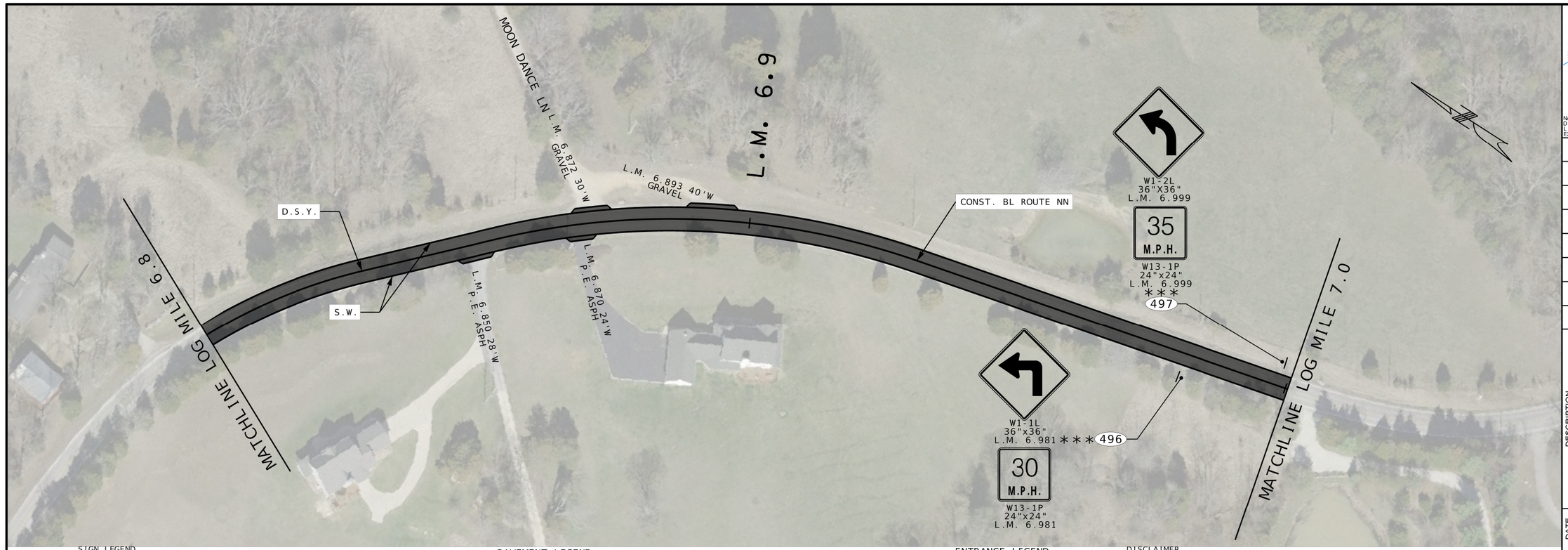
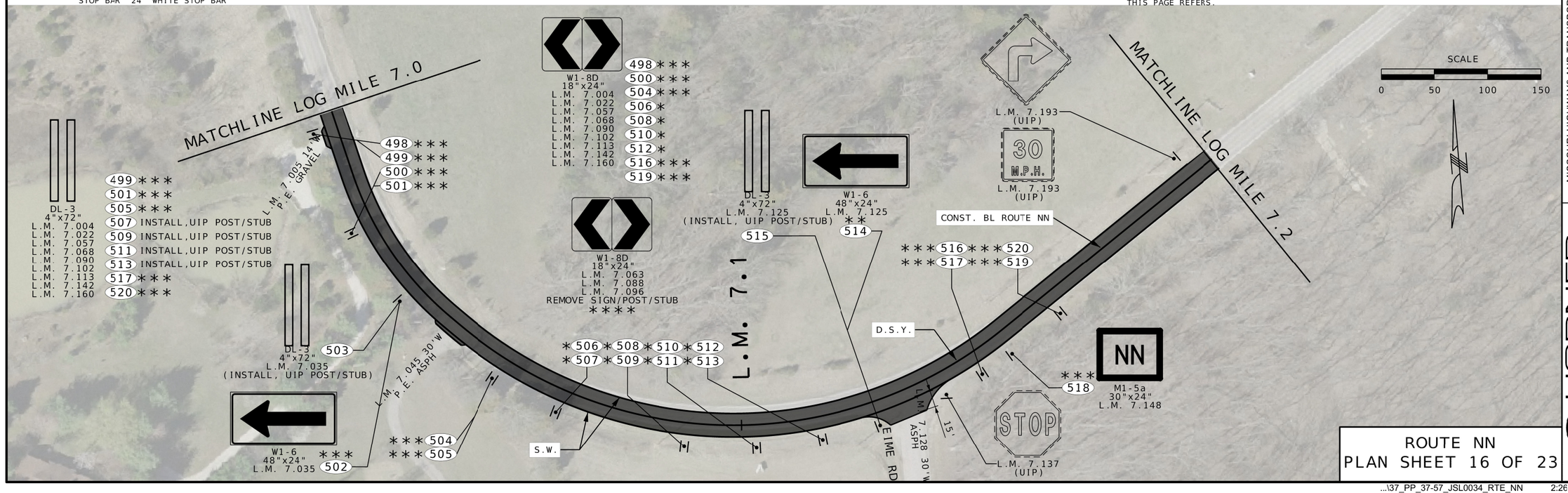
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024





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HIGH FRICTION SURFACE TREATMENT

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C.E. COMMERCIAL LEGEND
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STATE OF MISSOURI
STEPHEN T. SICHMELLER
E-NUMBER
PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/6/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	50

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER & SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
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CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

ROUTE NN
PLAN SHEET 16 OF 23

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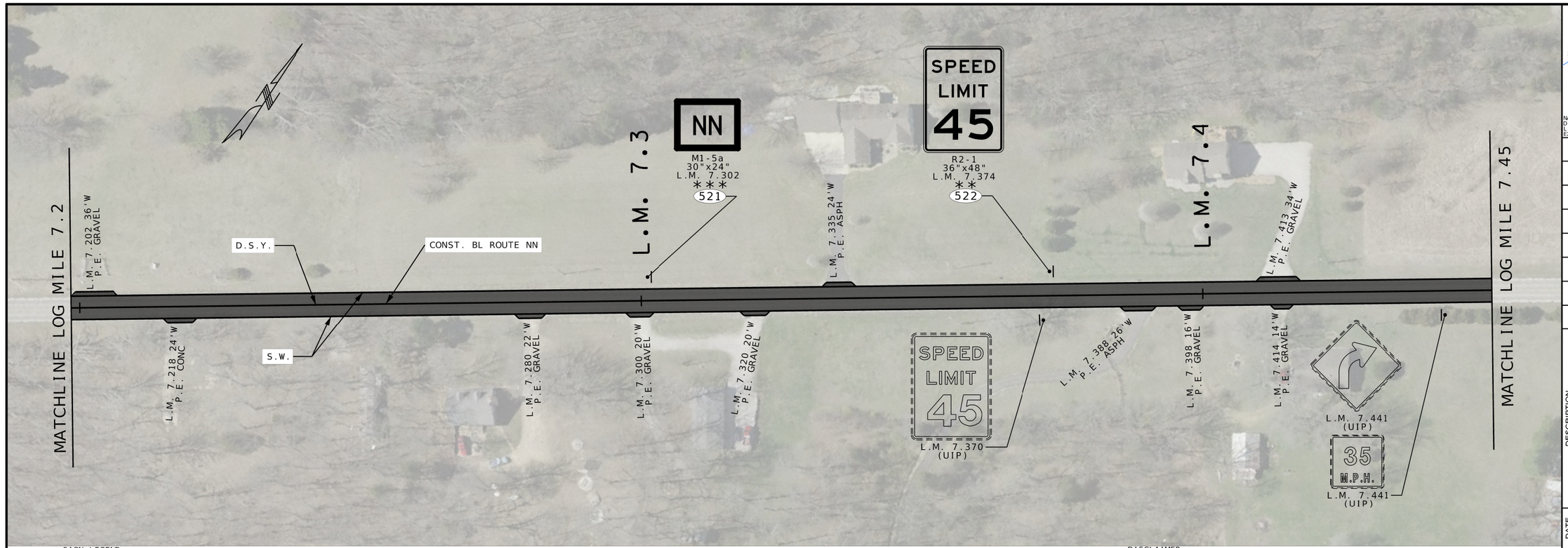

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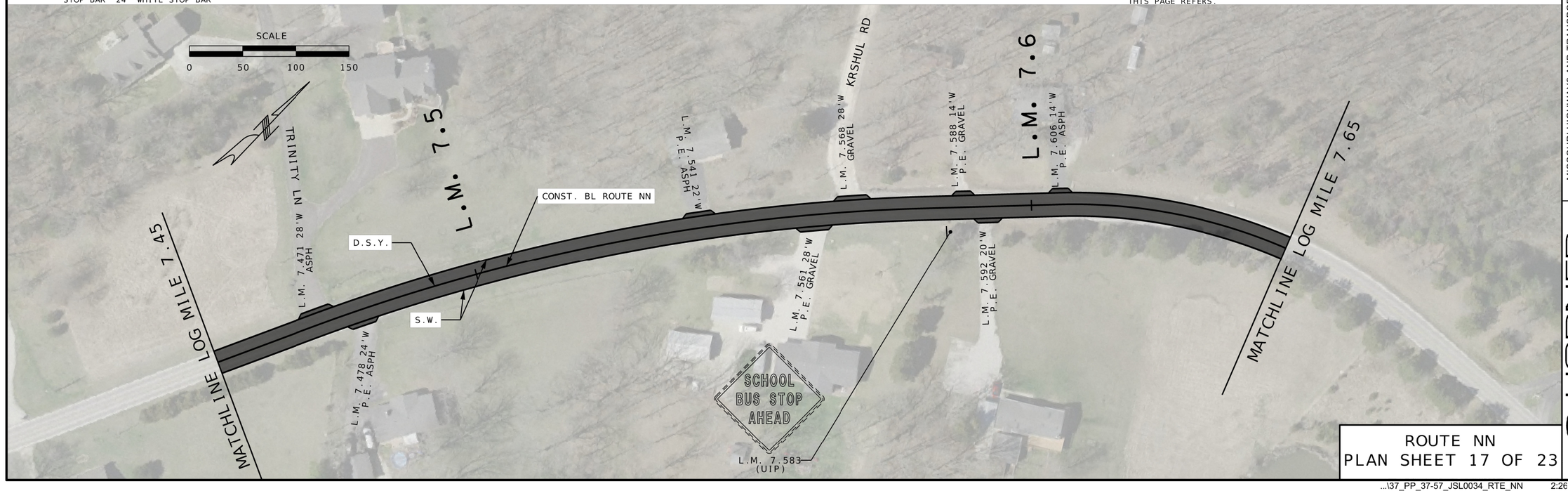

ROUTE NN
PLAN SHEET 17 OF 23

STATE OF MISSOURI
STEPHEN T. SICHMELLER
E-NUMBER
PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/6/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	51

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

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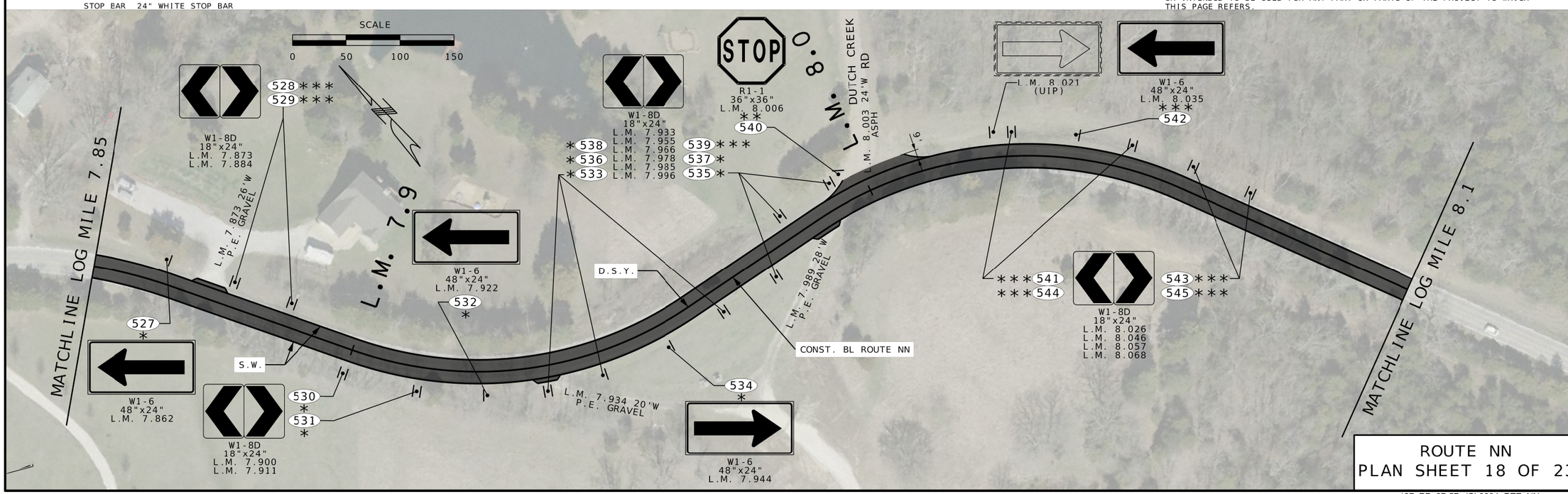

ROUTE NN
PLAN SHEET 18 OF 23

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED: 8/6/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	52

COUNTY: FRANK./JEFF.
JOB NO.: JSL0034
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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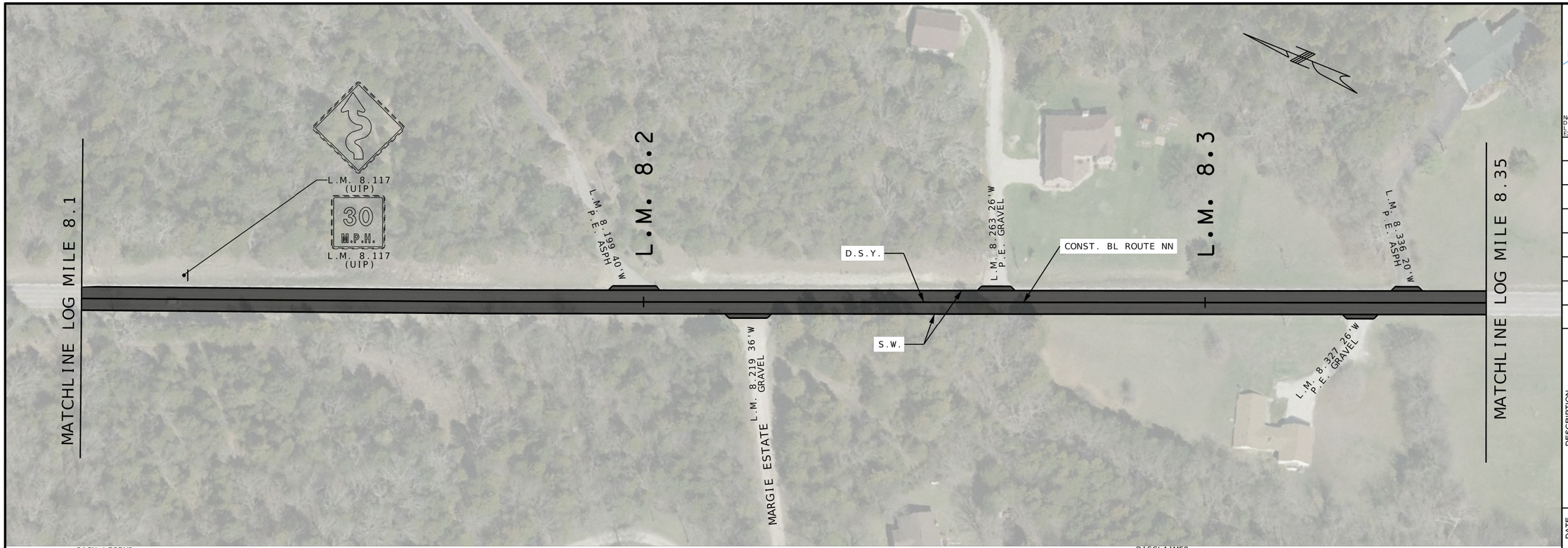

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F.E. FIELD ENTRANCE

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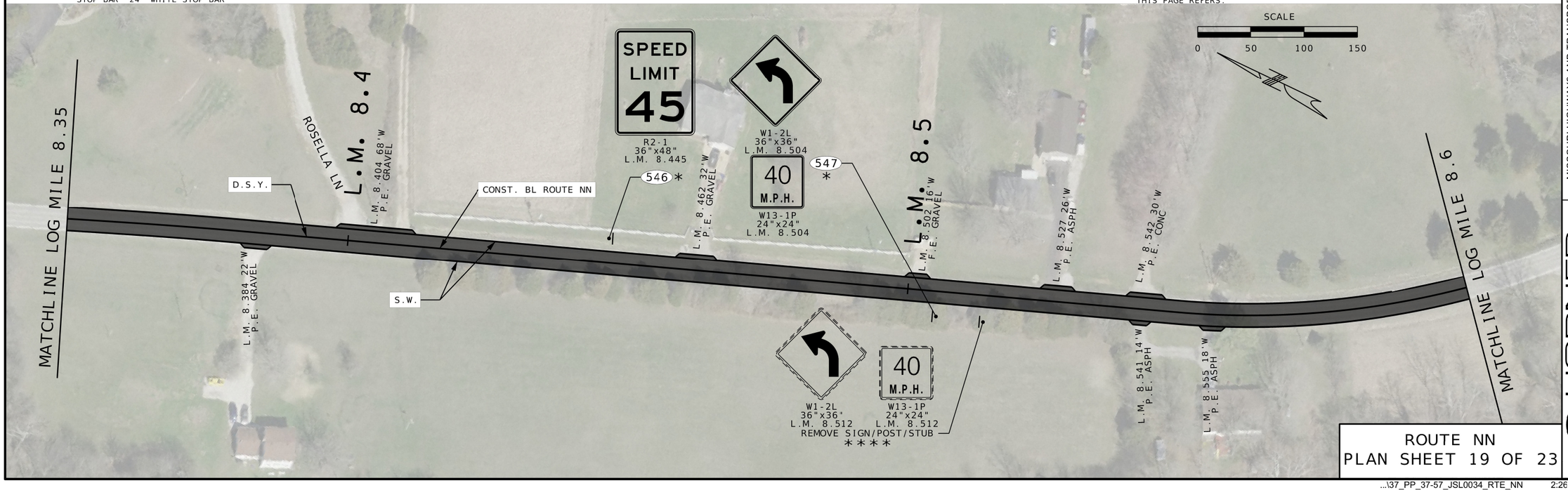

ROUTE NN
PLAN SHEET 19 OF 23

STEPHEN T. SICHMELLER
LICENSE NUMBER
PE-2024017802
STATE OF MISSOURI
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO.: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/6/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	53

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4225 • FAX 314-436-2405 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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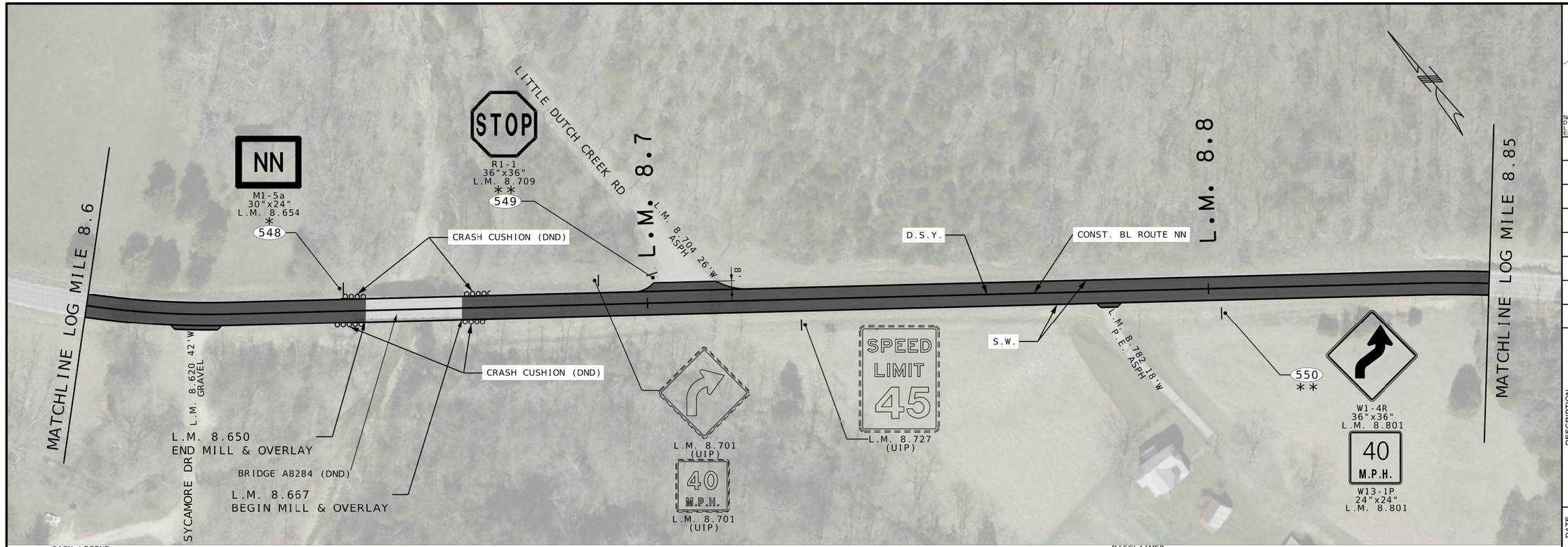

SIGN LEGEND
* INSTALL NEW SIGN, POST & STUB
** REMOVE & REPLACE SIGN, POST & STUB
*** REMOVE AND REPLACE SIGN ONLY
**** REMOVE SIGN, POST & STUB

STRIPING LEGEND
S.W. 4" SOLID WHITE
D.S.Y. 4" DOUBLE SOLID YELLOW
STOP BAR 24" WHITE STOP BAR

PAVEMENT LEGEND
MILL AND RESURFACE 2" BP-1
MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

ENTRANCE LEGEND
C.E. COMMERCIAL LEGEND
P.E. PRIVATE ENTRANCE
F.E. FIELD ENTRANCE

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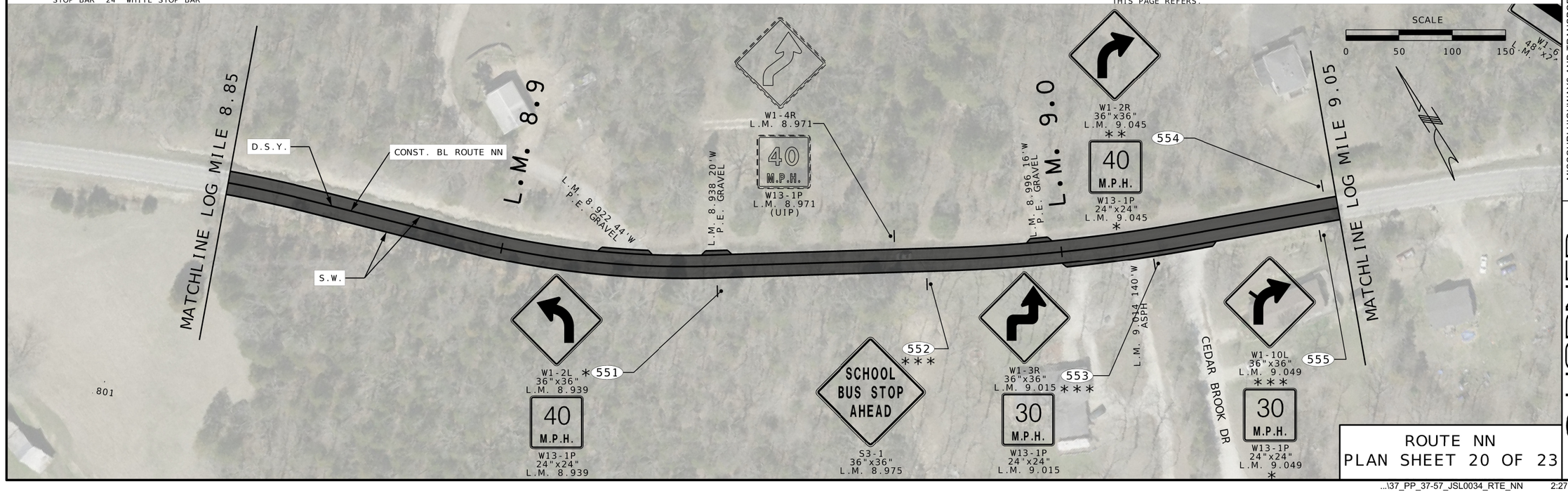

ROUTE NN
PLAN SHEET 20 OF 23

STEPHEN T. SICHMELLER
L.S. NUMBER
PE-2024017802
STATE OF MISSOURI
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/6/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	54

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4224 • FAX 314-436-2405 • WWW.HORNERSHIFRIN.COM
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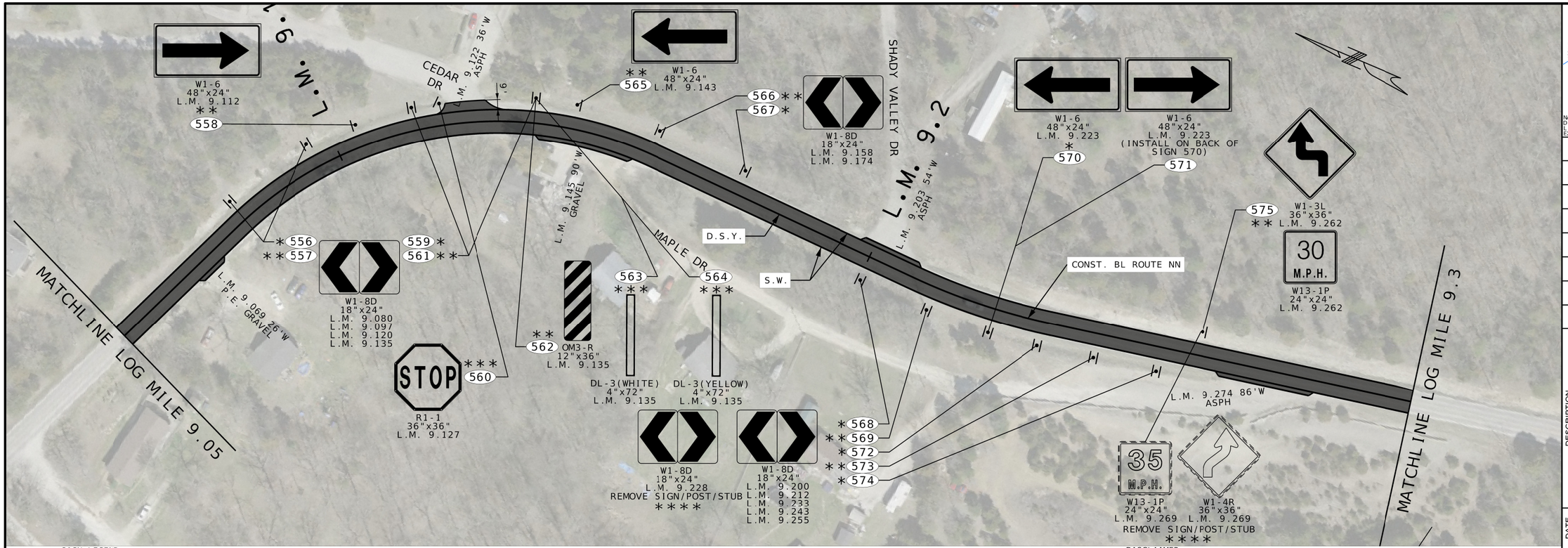

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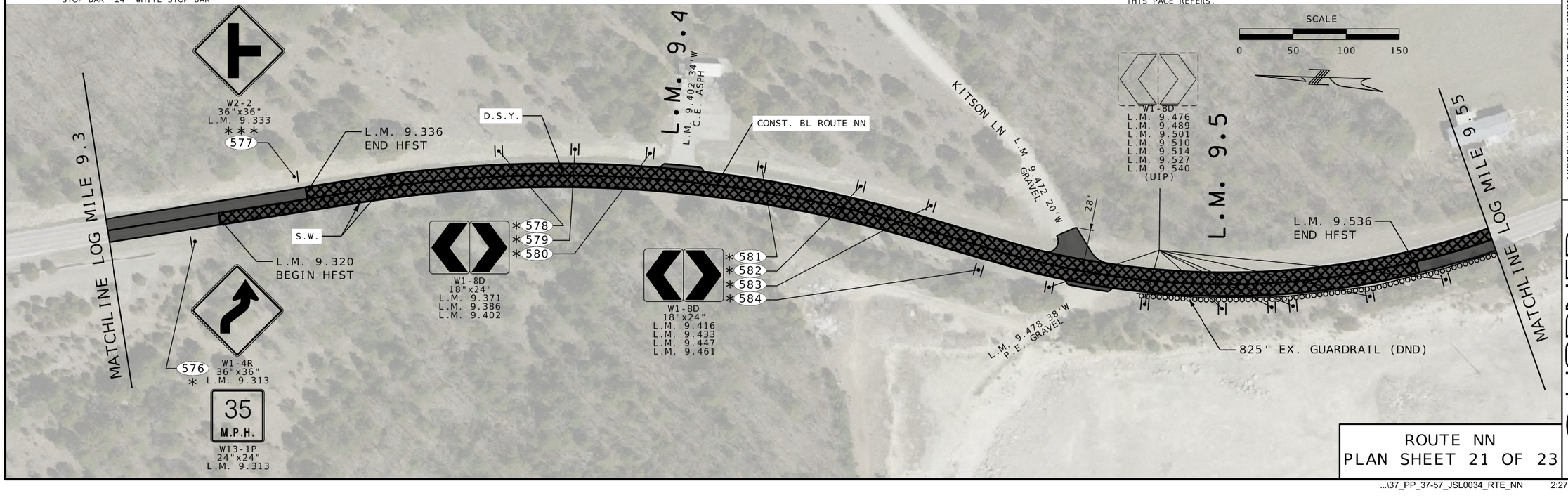

ROUTE NN
PLAN SHEET 21 OF 23

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STEPHEN T. SICHMELLER
NUMBER
PE-2024017802
STATE OF MISSOURI
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/6/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	55

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

CONTRACT ID.

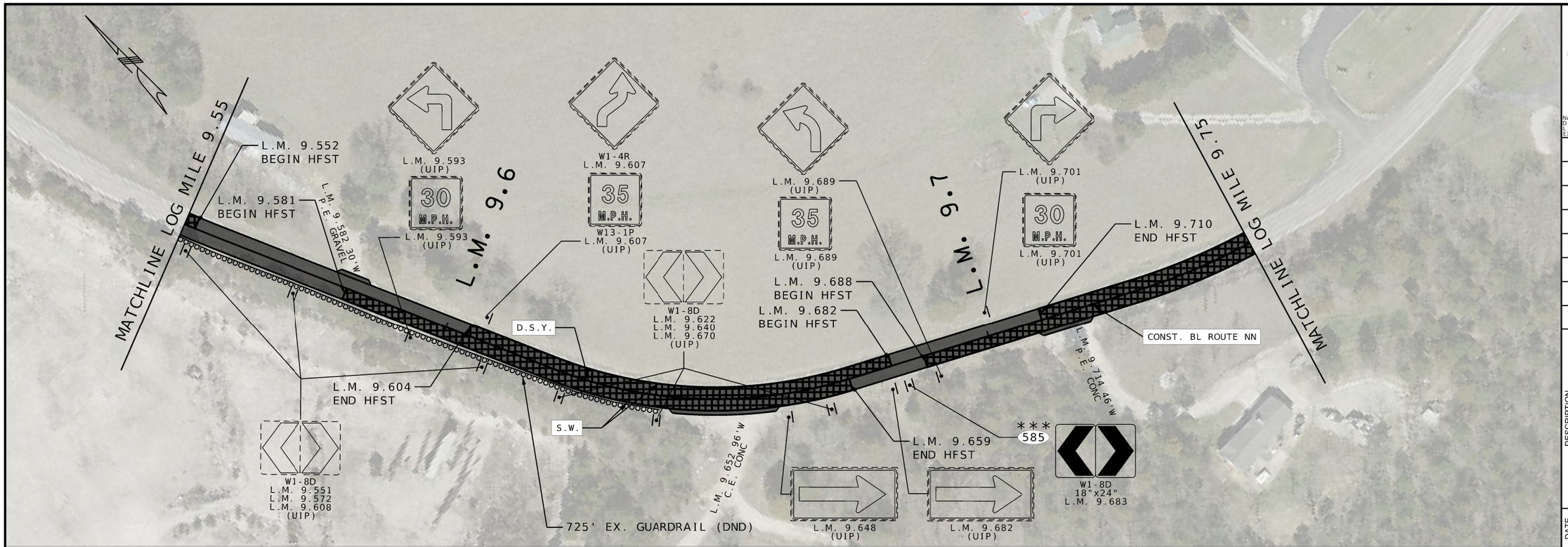
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4224 • FAX 314-436-2405 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024



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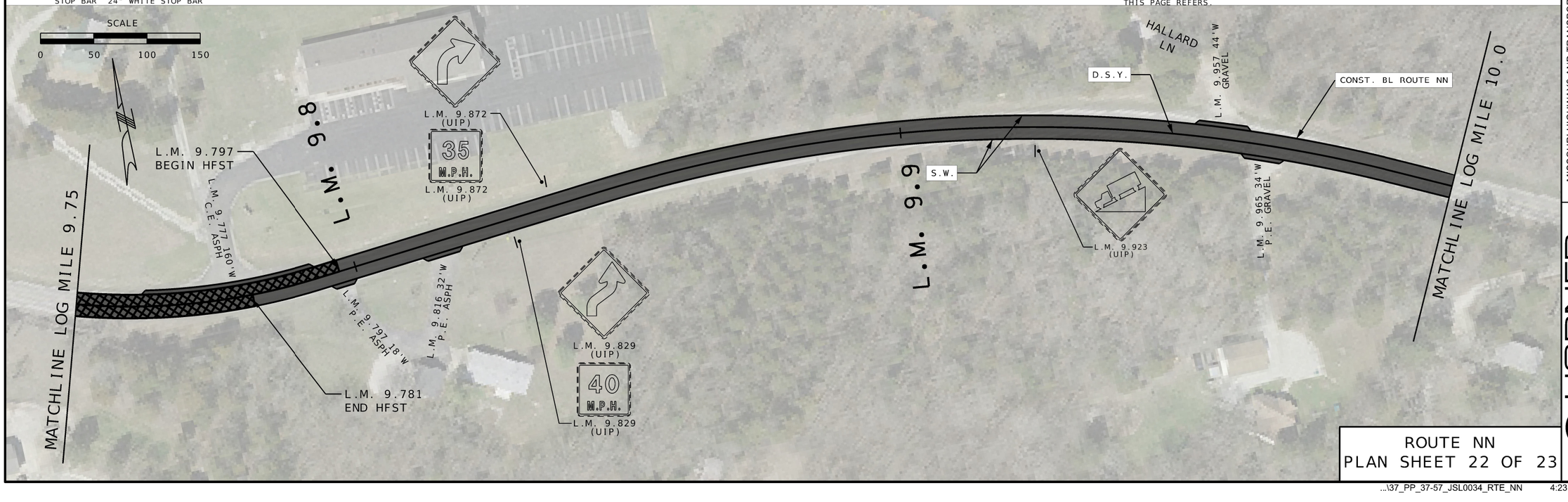

ROUTE NN
PLAN SHEET 22 OF 23

STEPHEN T. SICHMELLER
NUMBER
PE: 2024017802
PROFESSIONAL ENGINEER
STATE OF MISSOURI

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	56

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-4986 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
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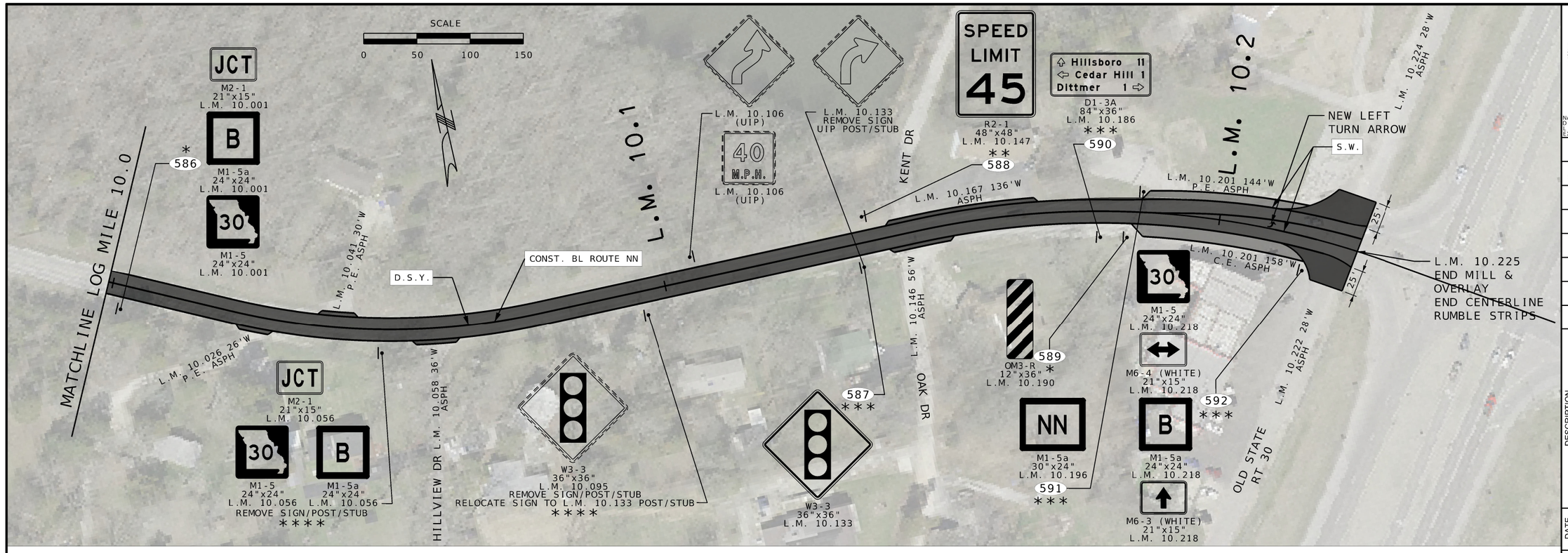

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MILL AND RESURFACE 1.5" BP-2
HIGH FRICTION SURFACE TREATMENT

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C.E. COMMERCIAL LEGEND
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ROUTE NN
PLAN SHEET 23 OF 23

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
PE 2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	57

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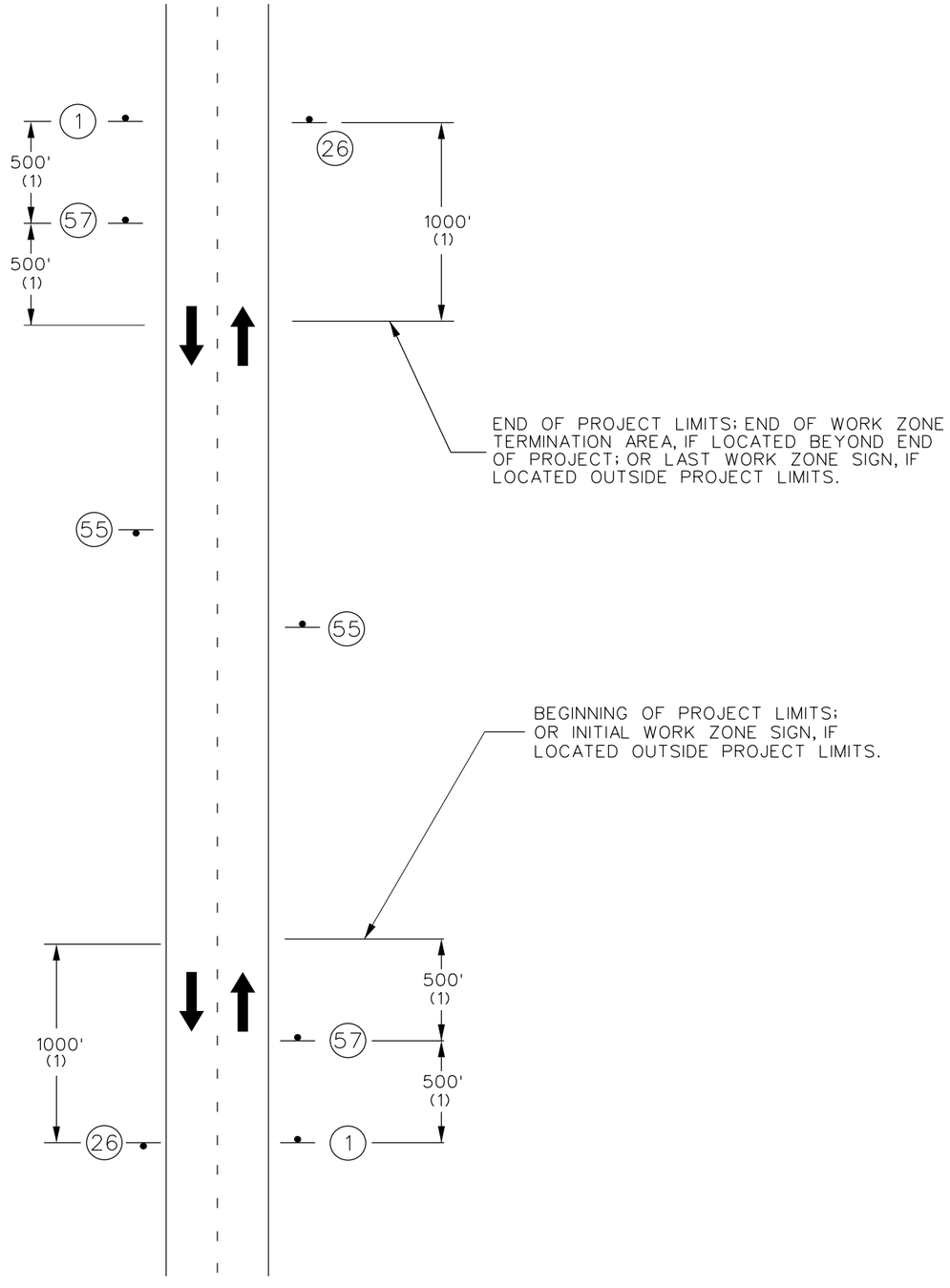

TWO-LANE UNDIVIDED

BEGIN/END OF PROJECT SIGNING
(FOR USE ON ALL PROJECTS)

NOT TO SCALE

NOTES:
SIGN GO20-1 IS REQUIRED PER EPG 616.6.56.

SIGN GO20-2 IS USED ON ALL PROJECTS WHERE SIGN GO20-1 IS USED.

OTHER SIGNS SUCH AS DETOUR OR ALTERNATE ROUTE SIGNING MAY BE USED OUTSIDE THE PROJECT LIMITS.

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

(1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA. ADDITIONAL SIGNING MAY BE NEEDED.

(2) CONST-5-96 OR CONST-5-48 SIGN IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE SIGN GO20-1.

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

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



GO20-1
(1)



GO20-2
(26)



SPECIAL (4)
(57)



CONST-5-96 (2)
CONST-5-48 (2)(3)
(55)

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TRAFFIC CONROL
SHEET 1 OF 9

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/6/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	58

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX: 314-436-2318 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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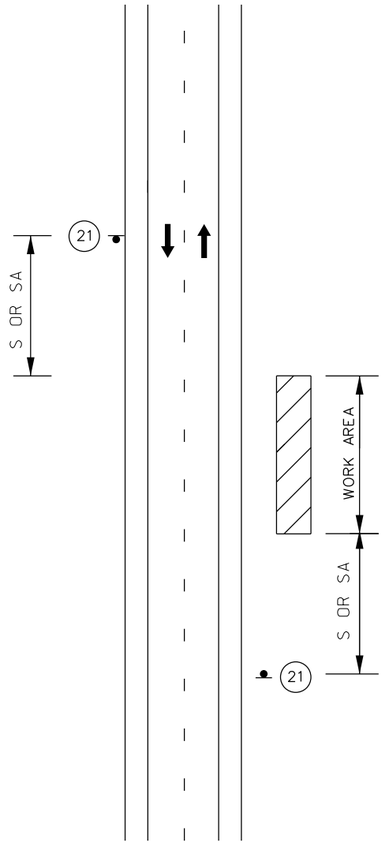
SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	200	-	-	-	-	-
40-45	350	500	-	-	-	-	-
50-55	500	1000	-	-	-	-	-





SHOULDER WORK
WORK BEYOND THE SHOULDER
DIVIDED AND UNDIVIDED

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- WORK AREA

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

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TRAFFIC CONROL
SHEET 2 OF 9

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/6/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	59

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

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

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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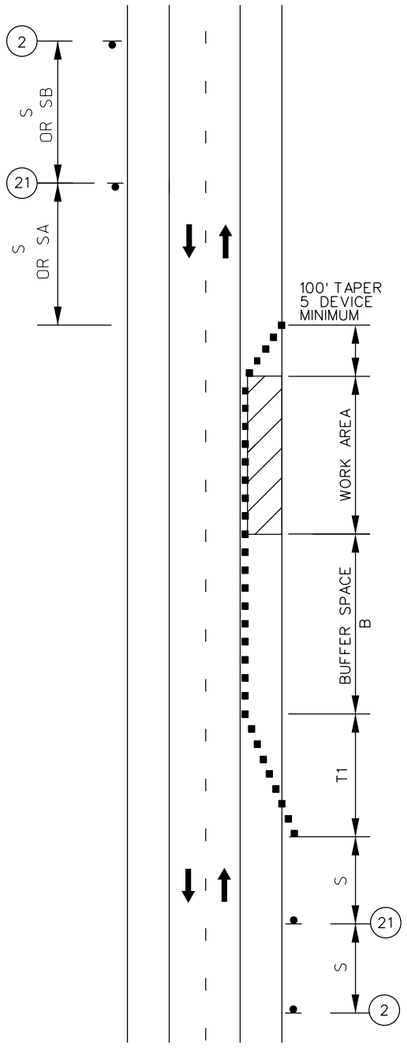
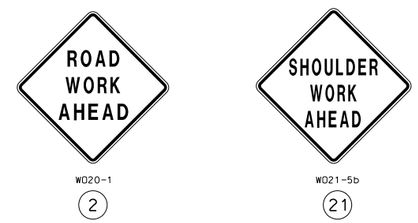
SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
50-55	500	1000	185	660	560	50	80

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



WORK ON THE SHOULDER ON DIVIDED AND UNDIVIDED HIGHWAYS



NOTES:

PROVIDE SIGNS ON LEFT AND RIGHT SIDES OF DIVIDED HIGHWAYS.

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.

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

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

NOT TO SCALE

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TRAFFIC CONROL
SHEET 3 OF 9

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/6/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	60

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

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WO20-1

(2)



CONST-3A

(53)



R4-1

(46)



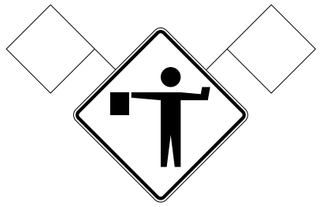
WO20-4

(7)



WO3-4

(11)



WO20-7a

(8)



G020-5aP

(54)



R4-2

(46A)



R2-1

(4)

* SIGN 4 SHALL BE 10MPH BELOW PERM. POSTED SPEED
** SIGN 4 SHALL BE THE PERM. POSTED SPEED

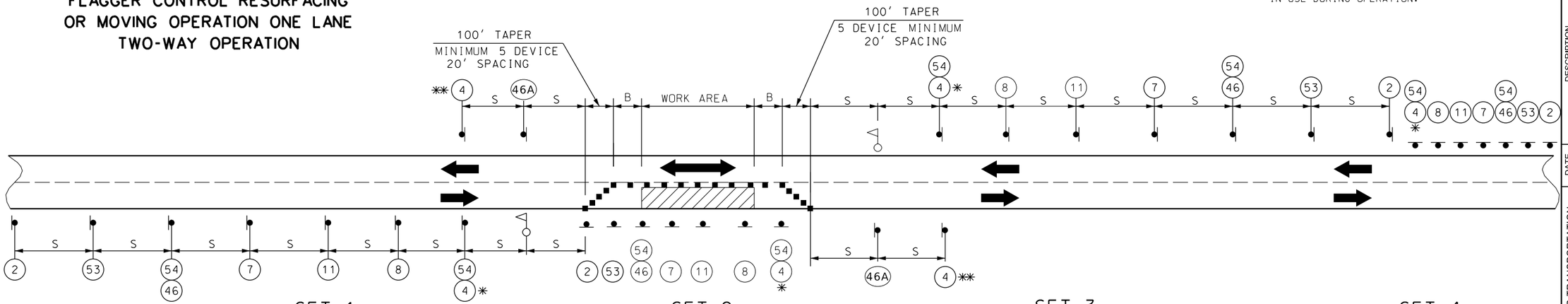


G020-4

(55)

SIGN 55, "PILOT CAR FOLLOW ME" SHALL BE THE CONTRACTOR'S RESPONSIBILITY WHEN IN USE DURING OPERATION.

FLAGGER CONTROL RESURFACING OR MOVING OPERATION ONE LANE TWO-WAY OPERATION



SET 1	SET 2	SET 3	SET 4
ACTIVE	INACTIVE	ACTIVE	INACTIVE

TRAFFIC CONTROL LEGEND

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

NOTES:

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

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

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

DAYLIGHT FLAGGING OPERATIONS ONLY.

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

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES

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
0-35	200	–	–	–	280	–	40
40-45	350	–	–	–	400	–	80
50-55	500	–	–	–	560	–	80

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

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NOT TO SCALE

TRAFFIC CONROL
SHEET 4 OF 9

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/6/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	61

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

CONTRACT ID.

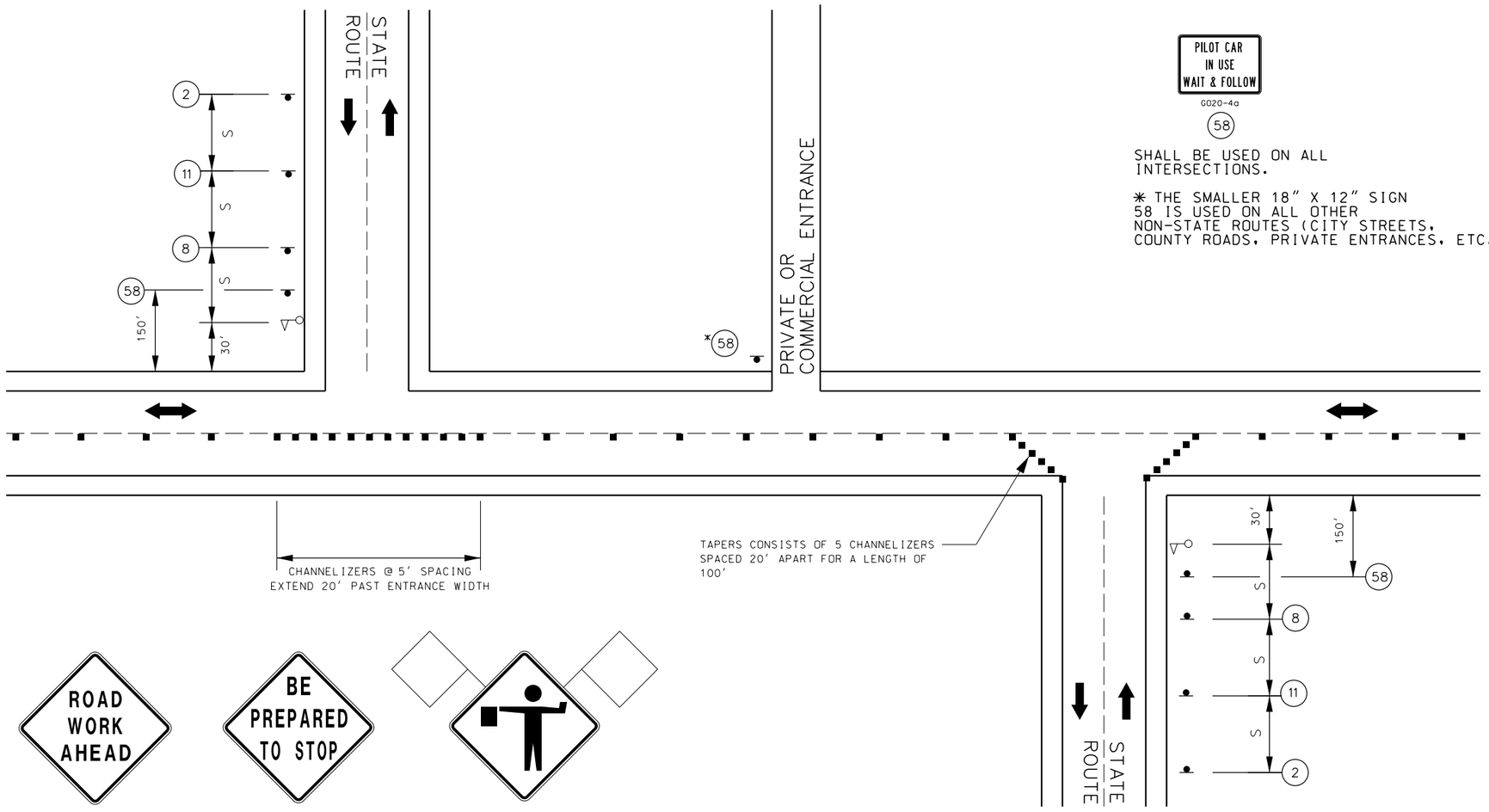
PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

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

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4224 | FAX: 314-436-1440 | WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024



PILOT CAR IN USE WAIT & FOLLOW

G020-4a

58

SHALL BE USED ON ALL INTERSECTIONS.

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

W020-1 (2)

W03-4 (11)

W020-7a (8)

SIDE ROADS ENTERING WORK ZONES

NOTES:

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

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

NOT TO SCALE

TRAFFIC CONTROL LEGEND

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

SPEED	SIGN SPACING (ft.)	
PERM. POSTED (MPH)	UN-DIVIDED (S)	DIVIDED (S)
0-35	200	200
40-45	350	500
50-55	500	1000

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TRAFFIC CONROL
SHEET 5 OF 9

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/6/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	62

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4224 FAX: 314-436-2405 WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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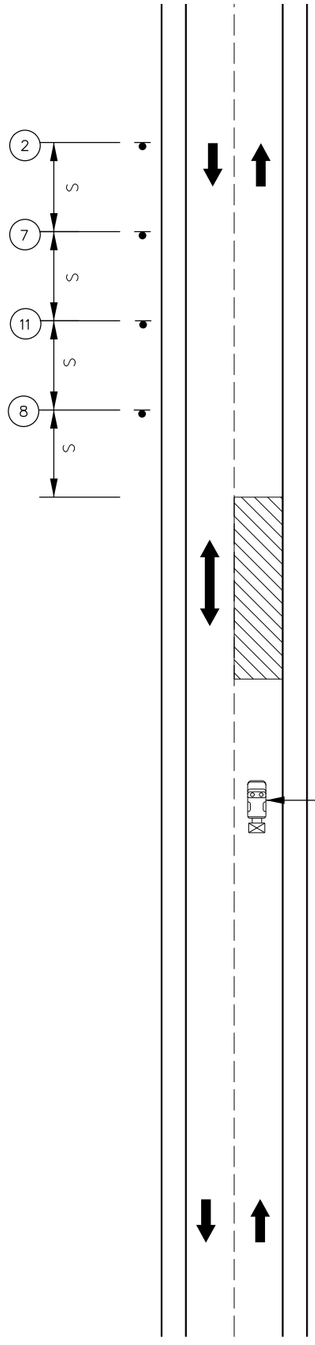
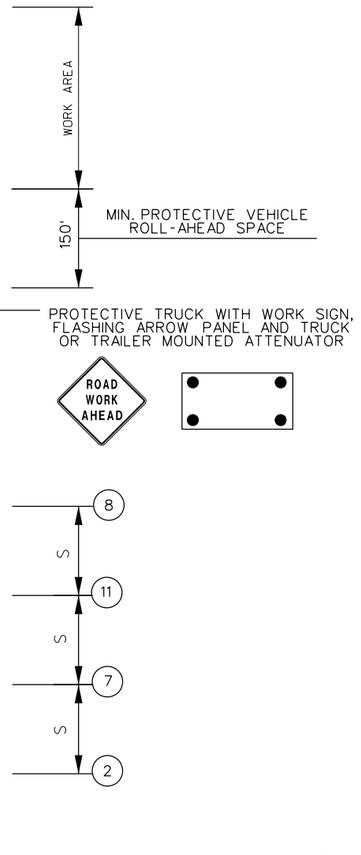




MOBILE OPERATION
ON TWO-LANE HIGHWAYS

NOT TO SCALE



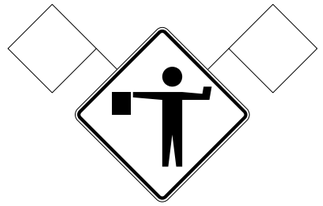
W020-1
(2)



W020-4
(7)



W03-4
(11)



W020-7a
(8)

NOTES:

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

FLASHING ARROW PANELS SHALL BE OPERATED IN CAUTION MODE.

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

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

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

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

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

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

IF RUMBLE STRIPS ARE USED, REVIEW 616.6.87 RUMBLE STRIPS.

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
0-35	200	–	–	–	–	–	–
40-45	350	–	–	–	–	–	–
50-55	500	–	–	–	–	–	–

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

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TRAFFIC CONROL
SHEET 6 OF 9

STATE OF MISSOURI
STEPHEN T. SICHMELLER
LICENSE NUMBER
PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/6/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	63

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX: 314-436-8586 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

CENTER LINE / EDGE LINE STRIPING ON TWO-LANE HIGHWAYS

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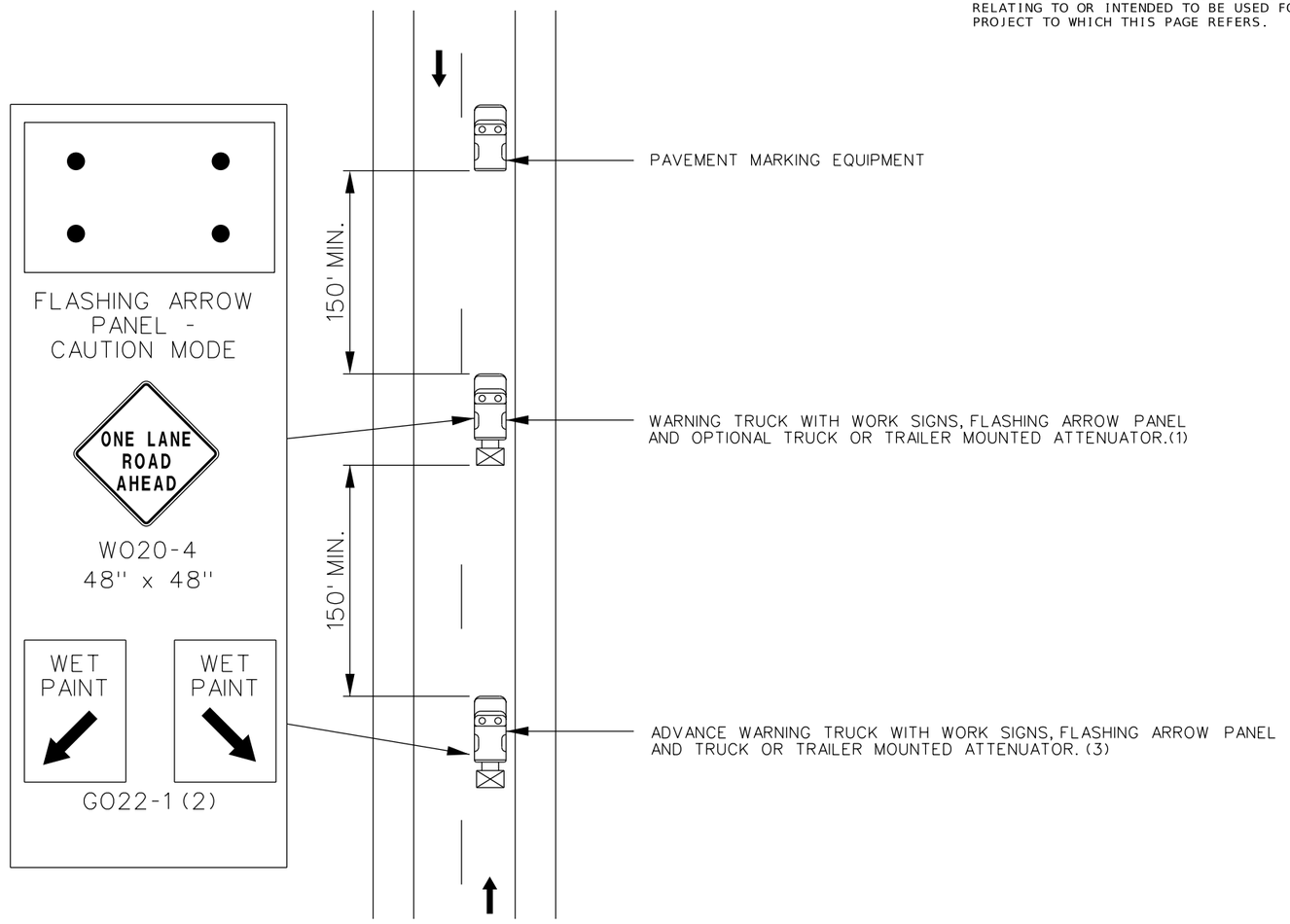

TWO-LANE UNDIVIDED HIGHWAY

NOTES:

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

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

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

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

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

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

NOT TO SCALE

TRAFFIC CONROL
SHEET 7 OF 9

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED	
8/6/2024	
ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	64
COUNTY	
FRANK./JEFF.	
JOB NO.	
JSL0034	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
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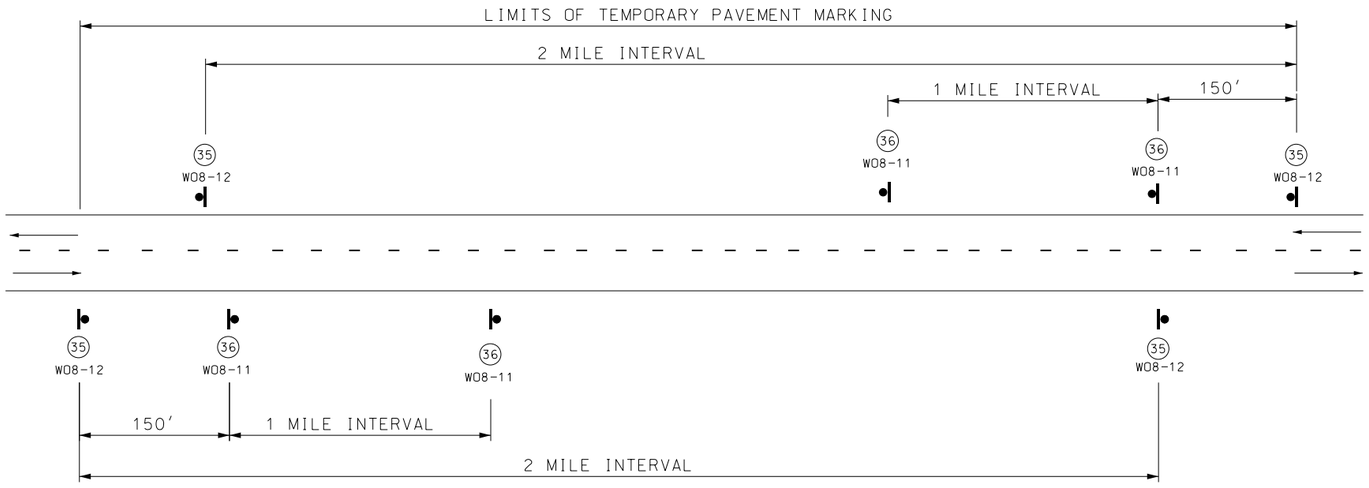
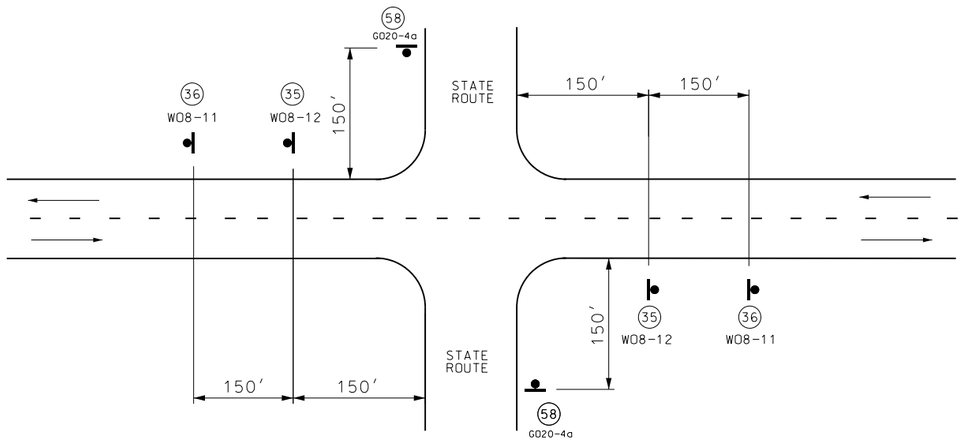
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024



SIGN SPACING FOR MAINLINE

(DETAIL SHOWN IS BASED ON A PROJECT MEETING ALL CONDITIONS: NO CENTER STRIPE, UNEVEN LANES, SHOULDER DROP-OFF AND BUMP.)
WHEN BOTH UNEVEN LANES AND SHOULDER DROP-OFF SIGNS ARE USED, BOTH SIGHS SHALL STAY IN PLACE UNTIL BOTH CONDITIONS NO LONGER EXIST.
IF ONLY ONE CONDITION EXISTS (UNEVEN LANES OR SHOULDER DROP-OFF), THE SIGN SPACING SHALL BE AT 1 MILE INTERVALS.



SIGN SPACING AT STATE ROUTE INTERSECTIONS



G020-4a

58

SHALL BE USED ON ALL INTERSECTIONS.

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



WO8-11

36



WO8-12

35

GENERAL NOTES:

FOR DETAILS OF TEMPORARY PAVEMENT MARKING, SEE SHEET 9 OF 9.

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

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

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

NOT TO SCALE

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TRAFFIC CONROL
SHEET 8 OF 9

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/6/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	65

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX: 314-436-2405 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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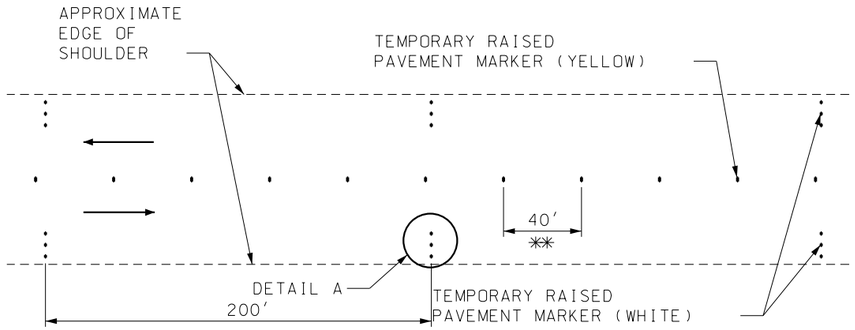
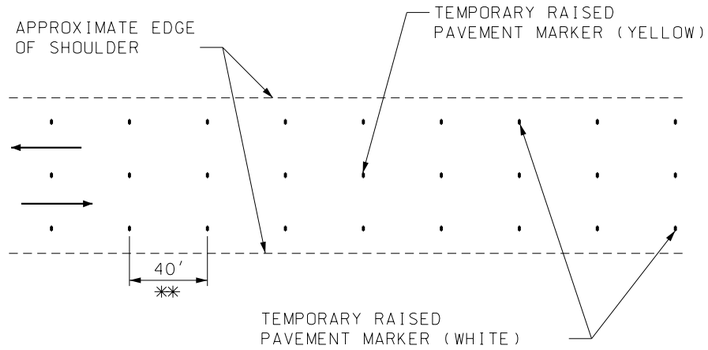
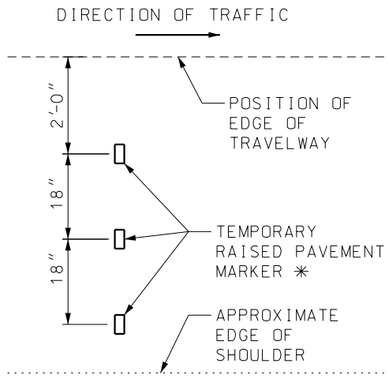


EDGE LINES AND CENTERLINE ON TWO-WAY SECTIONS WITH PAVED SHOULDERS GREATER THAN 4 FEET WIDE

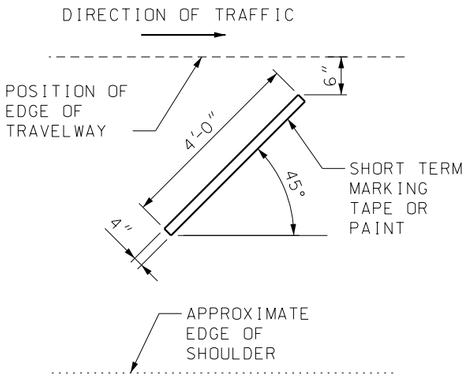


EDGE LINES AND CENTERLINE ON TWO-WAY SECTIONS WITH PAVED SHOULDERS 4 FEET WIDE OR LESS, AGGREGATE OR EARTH SHOULDERS OR NO SHOULDERS

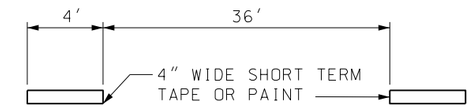


DETAIL A

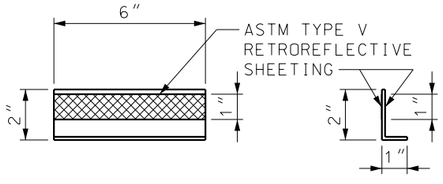
✳ THREE TEMPORARY RAISED PAVEMENT MARKERS SHALL BE USED IF SHOULDER IS 6′ OR WIDER. OTHERWISE, USE TWO TEMPORARY RAISED PAVEMENT MARKERS.



OPTIONAL DETAIL A FOR INTERMEDIATE LIFT



** OPTIONAL TEMPORARY PAVEMENT MARKING DETAIL FOR INTERMEDIATE LIFTS



TYPICAL TEMPORARY RAISED PAVEMENT MARKER DETAIL

NOT TO SCALE

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TRAFFIC CONROL
SHEET 9 OF 9

STEPHEN T. SICHMELLER
NUMBER
PE-2024017802
STATE OF MISSOURI
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED: 8/6/2024
ROUTE: O/F/NN
STATE: MO
DISTRICT: SL
SHEET NO.: 66
COUNTY: FRANK./JEFF.
JOB NO.: JSL0034
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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ROUTE O (1 OF 3)

EFFECTIVE 07-01-2022

SIGNS

902 SIGNAL SIGNS TABULATED ON D-37A SHEET

SIGN NO.	SIGN SIZE	LOG MILE	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	CONCRETE FOOTINGS EMBEDDED ITEM NO. 9031010 CY	STRUCTURAL STEEL POSTS * POST DES NO.	POST NO.1 LF	POST NO.2 LF	POST NO.3 LF	LBS PER FT	TOTAL ITEM NO. 9031210 LBS	PIPE POSTS * PIPE SIZE IN.	POST NO.1 LF	POST NO.2 LF	LBS PER FT	TOTAL ITEM NO. 9031220 LBS	BACKING BARS ** 2" X 3/8" BARS @ 2.55 LBS PER FT NO. EACH	LGTH IN.	TOTAL LF	TOTAL LBS	U-CHANNEL POST ITEM NO. 9031250A LF	PERFORATED SQUARE STEEL TUBE 2 IN. POST POST NO.1 LF	POST NO.2 LF	TOTAL ITEM NO. 9031270A LF	ANCHORS DRIVEN 12-GA. ITEM NO. 9031271A EA	DRIVEN 7-GA. ITEM NO. 9031273A EA	CONCRETE 7-GA. ITEM NO. 9031274 EA	2.5 IN. POST POST NO.1 LF	POST NO.2 LF	TOTAL ITEM NO. 9031280 LF	ANCHORS 2.25" INSERT (6 FT) ITEM NO. 9031272A EA	DRIVEN 7-GA. ITEM NO. 9031281A EA	CONCRETE 7-GA. ITEM NO. 9031285 EA	BREAK-AWAY ASSEMBLY ITEM NO. 9031241 EA	REMARKS AND OTHER REQUIRED ITEMS
33	ASSEMBLY	8.115		AT SB		0.13							2.5	11.25		5.79	65.14	5	50	20.83	53.13																
34	48"x24"	8.115		AT SB		0.13							2.5	10.25		5.79	59.35	2	32	5.33	13.6																
35	ASSEMBLY	8.115		AT SB		0.13							2.5	13.25		5.79	76.72																			
36	ASSEMBLY	8.115		AT SB		0.36							4	13.5	13.5	10.79	291.33																			
41	18"x24"	0.042		WB																			8.75		8.75	1									
42	96"x24"	0.056		WB	87	0.36							4	10.75	10.75	10.79	231.99																			
43	18"x24"	0.069		WB																			8.75		8.75	1									
45	36"x36"	0.084		WB																									12.25		12.25		1			
46	48"x24"	0.097		WB																			10.25	10.25	20.5	2									
49	ASSEMBLY	0.134		WB																			10.25	10.25	20.5	2									
52	ASSEMBLY	0.164		WB		0.36							4	16.5		10.79	178.04																			
53	ASSEMBLY	0.181		WB		0.36							4	13.5		10.79	145.67	4	50	16.67	42.5															
54A	48"x24"	0.196		WB														2	32	5.33	13.6															
54B	ASSEMBLY	0.202		EB		0.36							4	13.5	13.5	10.79	291.33																			
56	24"x24"	0.212		EB																			10.25		10.25	1									
57	ASSEMBLY	0.225		WB																									13.25		13.25	1	1		1	
58	ASSEMBLY	0.230		EB																									13.25		13.25	1	1		1	
59	36"x48"	0.457		EB																									12		12		1			
65	ASSEMBLY	1.085		WB																									13.25		13.25	1	1		1	
74	36"x36"	1.505		WB																									12.25		12.25		1			
87	24"x24"	2.606		WB																			10		10	1									
89	ASSEMBLY	2.648		WB																			11		11	1									
91	ASSEMBLY	2.671		EB																									13.25		13.25	1	1		1	
93	ASSEMBLY	2.690		WB														2	50	8.33	21.25									11.5		11.5		1			
95	18"x24"	2.733		EB																			8.75		8.75	1									
97	18"x24"	2.748		EB																			8.75		8.75	1									
98	18"x24"	2.762		EB																			8.75		8.75	1									
99	18"x24"	2.777		EB																			8.75		8.75	1									
100	18"x24"	2.793		EB																			8.75		8.75	1									
101	18"x24"	2.808		EB																			8.75		8.75	1									
102	18"x24"	2.822		EB																			8.75		8.75	1									
103	18"x24"	2.844		EB																			8.75		8.75	1									
105	ASSEMBLY	2.887		WB																									10.75		10.75		1			
107	18"x24"	2.935		EB																			8.75		8.75	1									
108	18"x24"	2.951		EB																			8.75		8.75	1									
109	36"x36"	2.965		EB																									10.5		10.5		1			
110	18"x24"	2.968		EB																			8.75		8.75	1									
111	18"x24"	2.984		EB																			8.75		8.75	1									
112	18"x24"	2.998		EB																			8.75		8.75	1									
113	18"x24"	3.013		EB																			8.75		8.75	1									
114	18"x24"	3.067		WB																			8.75		8.75	1									
115	18"x24"	3.082		WB																			8.75		8.75	1									
116	18"x24"	3.097		WB																			8.75		8.75	1									
117	18"x24"	3.113		WB																			8.75		8.75	1									
118	18"x24"	3.128		WB																			8.75		8.75	1									
119	18"x24"	3.143		WB																			8.75		8.75	1									
121	18"x24"	3.158		WB																			8.75		8.75	1									
123	ASSEMBLY	3.197		WB																									13.25		13.25	1	1		1	
124	18"x24"	3.222		EB																			8.75		8.75	1									
125	18"x24"	3.233		EB																			8.75		8.75	1									
126	48"x24"	3.246		EB																			10.25	10.25	20.5	2									
127	18"x24"	3.254		EB																			8.75		8.75	1									
128	48"x24"	3.258		EB																			10.25	10.25	20.5	2									
129	18"x24"	3.264		EB																			8.75		8.75	1									
130	18"x24"	3.271		EB																			8.75		8.75	1									
131	18"x24"	3.282		EB																			8.75		8.75	1									
132	18"x24"	3.289		EB																			8.75		8.75	1									
133	48"x24"	3.367		WB																			10.25	10.25	20.5	2									
134	48"x24"	3.367		WB																			10.25	10.25	20.5	2									
135	18"x24"	3.379		WB																			8.75		8.75	1									
				SUBTOTAL RTE. 01		2.19						0					1339.57				144.08	0			425.5	46	0	0			135.50	5	11	0	5	

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

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) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

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
3	7.58	0.63	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	DIA.	FOOTING 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
STEPHEN T. SICHMELLER
NUMBER PE-2024017800
PROFESSIONAL ENGINEER
NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017800
EXPIRATION DATE: 12/31/2024

DATE PREPARED: 8/8/2024
ROUTE: O/F/NN
STATE: MO
DISTRICT: SL
SHEET NO.: 67
COUNTY: FRANK./JEFF.
JOB NO.: JSL0034
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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4021 • FAX: 314-531-4096 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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EFFECTIVE 07-01-2022

SIGNS 902 SIGNAL SIGNS TABULATED ON D-37A SHEET						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS *						PIPE POSTS *					BACKING BARS **				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE												BREAK-AWAY ASSEMBLY	REMARKS AND OTHER REQUIRED ITEMS
																							2 IN. POST						2.5 IN. POST							
																										ANCHORS						ANCHORS			
SIGN NO.	SIGN SIZE	STATION	HORZ CLEAR IF NOT STD	LOCATION	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	2" X 3/8" BARS @ 2.55 LBS PER FT NO. EACH	LGTH	TOTAL	TOTAL	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	
136	18"x24"	3.391		WB																			8.75		8.75	1										
137	18"x24"	3.402		WB																			8.75		8.75	1										
138	18"x24"	3.413		WB																			8.75		8.75	1										
139	18"x24"	3.425		WB																			8.75		8.75	1										
140	18"x24"	3.438		WB																			8.75		8.75	1										
143	18"x24"	3.603		WB																			8.75		8.75	1										
144	18"x24"	3.614		WB																			8.75		8.75	1										
145	18"x24"	3.624		WB																			8.75		8.75	1										
146	48"x24"	3.636		WB																			10.25	10.25	20.5	2										
147	18"x24"	3.648		WB																			8.75		8.75	1										
148	48"x24"	3.659		WB																			10.25	10.25	20.5	2										
149	18"x24"	3.671		WB																			8.75		8.75	1										
150	18"x24"	3.682		WB																			8.75		8.75	1										
151	18"x24"	3.693		WB																			8.75		8.75	1										
152	18"x24"	3.728		EB																			8.75		8.75	1										
153	18"x24"	3.741		EB																			8.75		8.75	1										
154	48"x24"	3.753		EB																			10.25	10.25	20.5	2										
155	18"x24"	3.763		EB																			8.75		8.75	1										
156	18"x24"	3.767		EB																			8.75		8.75	1										
157	48"x24"	3.775		EB																			10.25	10.25	20.5	2										
158	18"x24"	3.794		EB																			8.75		8.75	1										
159	18"x24"	3.806		EB																			8.75		8.75	1										
160	18"x24"	3.817		EB																			8.75		8.75	1										
162	12"x36"	3.874		EB																			8.75		8.75	1										
163	12"x36"	3.873		EB																			8.75		8.75	1										
166	18"x24"	4.091		EB																			8.75		8.75	1										
167	18"x24"	4.106		EB																			8.75		8.75	1										
168	18"x24"	4.121		EB																			8.75		8.75	1										
169	18"x24"	4.136		EB																			8.75		8.75	1										
170	18"x24"	4.141		WB																			8.75		8.75	1										
171	18"x24"	4.157		WB																			8.75		8.75	1										
172	18"x24"	4.172		WB																			8.75		8.75	1										
173	18"x24"	4.187		WB																			8.75		8.75	1										
174	18"x24"	4.202		WB																			8.75		8.75	1										
175	18"x24"	4.219		WB																			8.75		8.75	1										
176	18"x24"	4.234		WB																			8.75		8.75	1										
177	ASSEMBLY	4.273		WB																										13.25		13.25	1	1		1	
180	ASSEMBLY	4.274		EB																			11.25		11.25	1										
182	24"x24"	4.506		EB																			10		10	1										
187	ASSEMBLY	5.056		EB																										11.25		11.25		1			
191	ASSEMBLY	5.196		EB														2	50	8.34	21.27		11.5		11.5	1										
192	24"x24"	5.208		WB																			10		10	1										
194	ASSEMBLY	5.264		WB														2	50	8.34	21.27																
196	ASSEMBLY	5.421		WB																										11.25		11.25		1			
198	36"x36"	5.475		WB																										12.25		12.25		1			
207	ASSEMBLY	5.873		EB														2	50	8.34	21.27																
208	ASSEMBLY	5.986		WB														2	50	8.34	21.27																
222	ASSEMBLY	6.304		EB																										13.25		13.25	1	1		1	
224	36"x48"	6.606		EB																										12		12		1			
231	84"x24"	7.674		WB	87	0.13							2.5	10.75	10.75	5.79	124.49																				
232	ASSEMBLY	7.721		EB														1	50	4.17	10.63		11.5		11.5	1										
235	36"x48"	7.792		WB																										12		12		1			
239	ASSEMBLY	7.869		EB		0.36							4	14.75		10.79	159.15	2	50	8.34	21.27																
240	24"x24"	7.940		EB																			10		10	1										
241	ASSEMBLY	7.869		WB														2	50	8.34	21.27																
243	36"x48"	7.993		EB																										12		12		1			
247	ASSEMBLY	8.067		WB														1	50	4.17	10.63		11.25		11.25	1										
248	36"x48"	8.277		WB																										12		12		1			
254	ASSEMBLY	9.076		EB																										13.25		13.25	1	1		1	
257	ASSEMBLY	9.450		WB																										13.25		13.25	1	1		1	
				SUBTOTAL RTE. 02		0.49						0					283.64				148.88	0			428.75	48	0	0			135.75	4	11	0	4			

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
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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
3	7.58	0.63	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					FOOTING							
		WEIGHT				LEVEL GROUND		6:1 GRADE		4:1 GRADE		3:1 OR 2:1 GRADE	
POST DES. NO.	NOM. SIZE	LBS/FT	LBS/IN	STUB LENGTH	DIA.	DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER PE-2024017802
PROFESSIONAL ENGINEER
NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED 8/8/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	68

COUNTY: FRANK./JEFF.
JOB NO.: JSL0034
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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-231-4020 FAX: 314-231-4656 WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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ROUTE O (3 OF 3)

EFFECTIVE 07-01-2022

SIGNS (902 SIGNAL SIGNS TABULATED ON D-37A SHEET)						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS *						PIPE POSTS *					BACKING BARS **				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE												REMARKS AND OTHER REQUIRED ITEMS
																							2 IN. POST						2.5 IN. POST							
																										ANCHORS					ANCHORS		BREAK-AWAY ASSEMBLY	
SIGN NO.	SIGN SIZE	LOG MILE	HORZ CLEAR IF NOT STD	LOCATION	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	2" X 3/8" BARS @ 2.55 LBS PER FT NO. EACH	LGTH IN.	TOTAL LF	TOTAL 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	
259	ASSEMBLY	9.958		WB																									13.25		13.25	1	1		1	
260	ASSEMBLY	10.334		EB																			11.25		11.25	1										
265	ASSEMBLY	10.472		EB														2	50	8.34	21.27		11.5		11.5	1										
268	ASSEMBLY	10.519		WB														2	50	8.34	21.27		12.25		12.25	1										
269	24"x24"	10.517		EB																			9.75		9.75	1										
271	36"x48"	10.629		EB																									12		12		1			
272	54"X39"	10.668		WB														2	50	8.33	21.25		11.5		11.5	1										
273	30"X39"	10.707		WB																									11.25		11.25		1			
278	36"X36"	11.391		EB																									11		11		1			
279	24"X18"	11.594		WB	88																		11		11	1										
282	36"X48"	11.890		WB																									12		12		1			
284	24"X39"	11.944		EB																			11		11	1										
	SUBTOTAL RTE. 03					0						0					0				63.79	0			78.25	7	0	0			59.50	1	5	0	1	

* 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
3	7.58	0.63	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.	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

DISCLAIMER
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STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER PE-2024017802
PROFESSIONAL ENGINEER
NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED: 8/8/2024
ROUTE: O/F/NN
STATE: MO
DISTRICT: SL
SHEET NO.: 69
COUNTY: FRANK./JEFF.
JOB NO.: JSL0034
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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 FAX: 314-436-3161 WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

...\02_Final\69_SN_3_D-29_RteO.dgn 10:54:46 AM 8/8/2024

ROUTE F (1 OF 1)

EFFECTIVE 07-01-2022

SIGNS 902 SIGNAL SIGNS TABULATED ON D-37A SHEET						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS *						PIPE POSTS *					BACKING BARS **				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE													REMARKS AND OTHER REQUIRED ITEMS
																							2 IN. POST						2.5 IN. POST						BREAK-AWAY ASSEMBLY	
																										ANCHORS					ANCHORS				
SIGN NO.	SIGN SIZE	LOG MILE	HORZ CLEAR IF NOT STD	LOCATION	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	2" X 3/8" BARS @ 2.55 LBS PER FT NO. EACH	LGTH IN.	TOTAL LF	TOTAL ITEM NO. 9031210	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	
1	36"X48"	0.626		RT	88																		11.75		11.75	1										
2	24"X24"	0.681		RT																			9.67		9.67	1										
3	36"X48"	0.789		RT																			11.75		11.75	1										
4	36"X48"	0.796		LT																			11.75		11.75	1										
5	ASSEMBLY	0.836		RT																			12.91		12.91	1										
7	36"X48"	0.885		RT	88																		11.75		11.75	1										
8	48"X24"	0.910		LT																			9.83	9.83	19.66	2										
10	36"X48"	0.958		LT	88																		11.75		11.75	1										
11	36"X48"	1.178		RT																			11.75		11.75	1										
13	ASSEMBLY	1.210		LT																			12.91		12.91	1										
18	ASSEMBLY	1.433		RT																			12.91		12.91	1										
19	36"X36"	1.488		LT																			10.75		10.75	1										
21	ASSEMBLY	1.854		LT																			12.91		12.91	1										
23	36"X48"	2.332		LT																			11.75		11.75	1										
24	ASSEMBLY	2.359		RT														4	50	16.67	42.51									9.89		9.89	1	1		1	
26	ASSEMBLY	2.462		RT														4	50	16.67	42.51									9.89		9.89	1	1		1	
27	24"X24"	2.460		LT																			9.67		9.67	1										
28	48"X24"	2.475		RT																			9.83	9.83	19.66	2										
29	ASSEMBLY	2.475		LT														4	50	16.67	42.51									9.89		9.89	1	1		1	
30	36"X36"	2.485		LT																			10.75		10.75	1										
31	24"X24"	2.492		RT																			9.67		9.67	1										
623	24"X30"	0.357		LT																			10.00		10.00	1										
625	36"X36"	0.410		RT																			10.50		10.50	1										
626	24"X30"	0.443		RT																			10.00		10.00	1										
627	36"X36"	0.479		RT																			10.50		10.50	1										
628	36"X36"	0.546		RT																		13.00															
SUBTOTAL - RTE F												127.53					13.00				264.72	24						29.67	3	3		3			

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

ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE (IN.)	WEIGHT LBS/FT	WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	FOOTING DEPTH	CONCRETE 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.	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

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STATE OF MISSOURI
JOHN A. HOCK
NUMBER E-23292
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/14/2024

ROUTE O/F/NN | STATE MO

DISTRICT SL | SHEET NO. 70

COUNTY FRANK/JEFF

JOB NO. JSL0034

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

REV.	DESCRIPTION	DATE

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

EDSI
ENGINEERING DESIGN SOURCE, INC.
16141 Swingley Ridge Rd., Suite 300
Chesterfield, Missouri 63017
Missouri State Engineering Corporation #001523
T. 636 537 5585
F. 636 537 0275

pw://pw01.hornershifrin.com:HS MoDOT/Documents/2334500-MoDOT-RoutesFONNResurf/_EDSI/01_CADD/09_SN_JSL0034_i1 1:38:53 PM 8/14/2024

ROUTE NN (1 OF 3)

EFFECTIVE 07-01-2022

SIGNS 902 SIGNAL SIGNS TABULATED ON D-37A SHEET						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS *						PIPE POSTS *					BACKING BARS **				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE												BREAK-AWAY ASSEMBLY	REMARKS AND OTHER REQUIRED ITEMS
																							2 IN. POST						2.5 IN. POST							
																										ANCHORS						ANCHORS			
SIGN NO.	SIGN SIZE	LOG MILE	HORZ CLEAR IF NOT STD	LOCATION	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	2" X 3/8" BARS @ 2.55 LBS PER FT NO. EACH	LGTH	TOTAL	TOTAL	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	
300	84"x24"	0.047		NB		0.13							2.5	10.75	10.75	5.79	124.49																			
301	18"x24"	0.064		NB																			8.75		8.75	1										
302	18"x24"	0.082		NB																			8.75		8.75	1										
307	36"x48"	0.554		NB																			12		12	1										
308	30"x24"	0.659		NB																			10		10	1										
309	ASSEMBLY	0.610		SB																												11.25		11.25		1			
312	48"x24"	0.678		SB																			10.25	10.25	20.5	2										
319B	48"x24"	0.763		TRWR-EB																		20.5															
322	18"x24"	0.726		TRWR-EB																		8.75															
324	18"x24"	0.750		TRWR-EB																		8.75															
326	48"x24"	0.721		NB		0.13							2.5	10.25	10.25	5.79	118.70																			
335	36"x48"	1.685		NB																			12		12	1										
341	18"x24"	1.880		SB																			8.75		8.75	1										
342	18"x24"	1.888		SB																			8.75		8.75	1										
344	18"x24"	1.919		SB																			8.75		8.75	1										
345	18"x24"	1.927		SB																			8.75		8.75	1										
348	18"x24"	1.965		SB																			8.75		8.75	1										
350	18"x24"	1.989		SB																			8.75		8.75	1										
351	18"x24"	1.999		SB																			8.75		8.75	1										
354	18"x24"	2.315		NB																		8.75															
355	18"x24"	2.330		NB																		8.75															
356	18"x24"	2.347		NB																		8.75															
357	18"x24"	2.362		NB																		8.75															
358	18"x24"	2.377		NB																		8.75															
359	18"x24"	2.391		NB																		8.75															
360	18"x24"	2.406		NB																		8.75															
361	18"x24"	2.420		NB																		8.75															
367	18"x24"	2.916		NB																		8.75															
368	ASSEMBLY	2.917		SB																												13.25		13.25	1	1		1	
369	18"x24"	3.018		SB		0.13							2.5	8.75		5.79	50.66																			
370	18"x24"	3.037		SB		0.13							2.5	8.75		5.79	50.66																			
371	18"x24"	3.053		SB		0.13							2.5	8.75		5.79	50.66																			
372	18"x24"	3.068		SB		0.13							2.5	8.75		5.79	50.66																			
373	18"x24"	3.083		SB		0.13							2.5	8.75		5.79	50.66																			
374	18"x24"	3.097		SB		0.13							2.5	8.75		5.79	50.66																			
375	18"x24"	3.113		SB		0.13							2.5	8.75		5.79	50.66																			
376	18"x24"	3.128		SB		0.13							2.5	8.75		5.79	50.66																			
377	18"x24"	3.143		SB		0.13							2.5	8.75		5.79	50.66																			
378	18"x24"	3.158		SB		0.13							2.5	8.75		5.79	50.66																			
379	18"x24"	3.174		SB		0.13							2.5	8.75		5.79	50.66																			
380	18"x24"	3.189		SB		0.13							2.5	8.75		5.79	50.66																			
381	18"x24"	3.210		NB		0.13							2.5	8.75		5.79	50.66																			
382	18"x24"	3.225		NB		0.13							2.5	8.75		5.79	50.66																			
383	18"x24"	3.241		NB		0.13							2.5	8.75		5.79	50.66																			
384	18"x24"	3.255		NB		0.13							2.5	8.75		5.79	50.66																			
385	18"x24"	3.348		NB		0.13							2.5	8.75		5.79	50.66																			
386	18"x24"	3.365		NB		0.13							2.5	8.75		5.79	50.66																			
387	18"x24"	3.381		NB		0.13							2.5	8.75		5.79	50.66																			
388	18"x24"	3.397		NB		0.13							2.5	8.75		5.79	50.66																			
389	18"x24"	3.412		NB		0.13							2.5	8.75		5.79	50.66																			
390	18"x24"	3.427		NB		0.13							2.5	8.75		5.79	50.66																			
391	18"x24"	3.443		NB		0.13							2.5	8.75		5.79	50.66																			
392	18"x24"	3.459		NB		0.13							2.5	8.75		5.79	50.66																			
393	18"x24"	3.498		SB		0.13							2.5	8.75		5.79	50.66																			
394	18"x24"	3.514		SB		0.13							2.5	8.75		5.79	50.66																			
395	18"x24"	3.528		SB		0.13							2.5	8.75		5.79	50.66																			
396	18"x24"	3.543		SB		0.13							2.5	8.75		5.79	50.66																			
397	18"x24"	3.558		SB		0.13							2.5	8.75		5.79	50.66																			
398	18"x24"	3.572		SB		0.13							2.5	8.75		5.79	50.66																			
401	18"x24"	3.588		SB		0.13							2.5	8.75		5.79	50.66																			
	SUBTOTAL RTE. NN1					4.29					0						1813.65				0	116.75			133.25	14	0	0			24.50	1	2	0	1	

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

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ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE (IN.)	WEIGHT LBS/FT	WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	FOOTING DEPTH	CONCRETE C.Y.
2½	5.79	0.48	4'- 3½"	12"	4-6"	0.13
3	7.58	0.63	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
STEPHEN T. SICHMELLER
NUMBER PE-2024017800
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017800
EXPIRATION DATE: 12/31/2024

DATE PREPARED: 8/8/2024
ROUTE: O/F/NN
STATE: MO
DISTRICT: SL
SHEET NO.: 71
COUNTY: FRANK./JEFF.
JOB NO.: JSL0034
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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4021 • FAX: 314-531-4066 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

SHEET 5 OF 8
D-29

...\71_SN_5_D-29_RteNN.dgn 10:57:13 AM 8/8/2024

ROUTE NN (2 OF 3)

EFFECTIVE 07-01-2022

902 SIGNAL SIGNS TABULATED ON D-37A SHEET

SIGN NO.	SIGN SIZE	LOG MILE	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	CONCRETE FOOTINGS EMBEDDED ITEM NO. 9031010 CY	STRUCTURAL STEEL POSTS * POST DES NO.	POST NO.1 LF	POST NO.2 LF	POST NO.3 LF	LBS PER FT	TOTAL ITEM NO. 9031210 LBS	PIPE POSTS * PIPE SIZE IN.	POST NO.1 LF	POST NO.2 LF	LBS PER FT	TOTAL ITEM NO. 9031220 LBS	BACKING BARS ** 2" X 3/8" BARS @ 2.55 LBS PER FT NO. EACH	LGTH IN.	TOTAL LF	TOTAL LBS	U-CHANNEL POST ITEM NO. 9031250A LF	PERFORATED SQUARE STEEL TUBE 2 IN. POST POST NO.1 LF	POST NO.2 LF	TOTAL ITEM NO. 9031270A LF	ANCHORS DRIVEN 12-GA. ITEM NO. 9031271A EA	DRIVEN 7-GA. ITEM NO. 9031273A EA	CONCRETE 7-GA. ITEM NO. 9031274 EA	2.5 IN. POST POST NO.1 LF	POST NO.2 LF	TOTAL ITEM NO. 9031280 LF	2.25" INSERT (6 FT) ITEM NO. 9031272A EA	ANCHORS DRIVEN 7-GA. ITEM NO. 9031281A EA	CONCRETE 7-GA. ITEM NO. 9031285 EA	BREAK-AWAY ASSEMBLY ITEM NO. 9031241 EA	REMARKS AND OTHER REQUIRED ITEMS
402	18"x24"	3.603		SB		0.13							2.5	8.75		5.79	50.66																				
403	18"x24"	3.617		SB		0.13							2.5	8.75		5.79	50.66																				
404	18"x24"	3.632		SB		0.13							2.5	8.75		5.79	50.66																				
405	18"x24"	3.647		SB		0.13							2.5	8.75		5.79	50.66																				
408	18"x24"	3.837		NB		0.13							2.5	8.75		5.79	50.66																				
409	18"x24"	3.854		NB		0.13							2.5	8.75		5.79	50.66																				
410	18"x24"	3.871		NB		0.13							2.5	8.75		5.79	50.66																				
411	18"x24"	3.885		NB		0.13							2.5	8.75		5.79	50.66																				
412	18"x24"	3.906		NB		0.13							2.5	8.75		5.79	50.66																				
413	18"x24"	3.925		NB		0.13							2.5	8.75		5.79	50.66																				
414	18"x24"	3.940		NB		0.13							2.5	8.75		5.79	50.66																				
415	18"x24"	3.956		NB		0.13							2.5	8.75		5.79	50.66																				
416	18"x24"	3.972		NB		0.13							2.5	8.75		5.79	50.66																				
417	18"x24"	3.987		NB		0.13							2.5	8.75		5.79	50.66																				
418	18"x24"	4.002		NB		0.13							2.5	8.75		5.79	50.66																				
419	18"x24"	4.018		NB		0.13							2.5	8.75		5.79	50.66																				
420	18"x24"	4.036		NB		0.13							2.5	8.75		5.79	50.66																				
421	18"x24"	4.050		NB		0.13							2.5	8.75		5.79	50.66																				
422	18"x24"	4.474		NB																		8.75															
424	18"x24"	4.484		NB																		8.75															
431	18"x24"	4.564		NB																			8.75		8.75	1										
433	18"x24"	4.657		NB		0.13							2.5	8.75		5.79	50.66																				
434	18"x24"	4.672		SB		0.13							2.5	8.75		5.79	50.66																				
435	18"x24"	4.687		SB		0.13							2.5	8.75		5.79	50.66																				
436	18"x24"	4.702		SB		0.13							2.5	8.75		5.79	50.66																				
437	18"x24"	4.717		SB		0.13							2.5	8.75		5.79	50.66																				
438	18"x24"	4.731		SB		0.13							2.5	8.75		5.79	50.66																				
439	18"x24"	4.747		SB		0.13							2.5	8.75		5.79	50.66																				
440	18"x24"	4.762		SB		0.13							2.5	8.75		5.79	50.66																				
441	18"x24"	4.777		SB		0.13							2.5	8.75		5.79	50.66																				
442	18"x24"	4.792		SB		0.13							2.5	8.75		5.79	50.66																				
443	18"x24"	4.807		SB		0.13							2.5	8.75		5.79	50.66																				
444	18"x24"	4.836		SB		0.13							2.5	8.75		5.79	50.66																				
445	18"x24"	4.852		SB		0.13							2.5	8.75		5.79	50.66																				
446	18"x24"	4.908		SB		0.13							2.5	8.75		5.79	50.66																				
447	18"x24"	4.924		NB		0.13							2.5	8.75		5.79	50.66																				
448	18"x24"	4.939		NB		0.13							2.5	8.75		5.79	50.66																				
449	18"x24"	4.968		NB		0.13							2.5	8.75		5.79	50.66																				
450	18"x24"	4.981		NB		0.13							2.5	8.75		5.79	50.66																				
451	18"x24"	4.983		NB		0.13							2.5	8.75		5.79	50.66																				
452	18"x24"	4.996		SB		0.13							2.5	8.75		5.79	50.66																				
453	18"x24"	5.011		SB		0.13							2.5	8.75		5.79	50.66																				
454	18"x24"	5.026		SB		0.13							2.5	8.75		5.79	50.66																				
455	18"x24"	5.081		SB		0.13							2.5	8.75		5.79	50.66																				
456	18"x24"	5.095		SB		0.13							2.5	8.75		5.79	50.66																				
457	18"x24"	5.108		SB		0.13							2.5	8.75		5.79	50.66																				
458	18"x24"	5.124		SB		0.13							2.5	8.75		5.79	50.66																				
459	18"x24"	5.139		SB		0.13							2.5	8.75		5.79	50.66																				
460	18"x24"	5.168		SB		0.13							2.5	8.75		5.79	50.66																				
461	18"x24"	5.183		NB		0.13							2.5	8.75		5.79	50.66																				
462	18"x24"	5.197		NB		0.13							2.5	8.75		5.79	50.66																				
463	18"x24"	5.213		NB		0.13							2.5	8.75		5.79	50.66																				
464	18"x24"	5.227		NB		0.13							2.5	8.75		5.79	50.66																				
465	18"x24"	5.242		NB		0.13							2.5	8.75		5.79	50.66																				
466	18"x24"	5.257		NB		0.13							2.5	8.75		5.79	50.66																				
467	ASSEMBLY	5.284		SB	89																										13.25		13.25	1	1		1	
469	18"x24"	5.317		SB		0.13							2.5	8.75		5.79	50.66																				
471	18"x24"	5.339		SB		0.13							2.5	8.75		5.79	50.66																				
472	18"x24"	5.354		SB		0.13							2.5	8.75		5.79	50.66																				
473	18"x24"	5.366		SB		0.13							2.5	8.75		5.79	50.66																				
474	18"x24"	5.377		SB		0.13							2.5	8.75		5.79	50.66																				
			SUBTOTAL RTE. NN2			7.41						0					2887.62				0	17.50			8.75	1	0	0			13.25	1	1	0	1	

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

DISCLAIMER
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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
3	7.58	0.63	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
STEPHEN T. SICHMELLER
NUMBER PE-2024017800
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017800
EXPIRATION DATE: 12/31/2024

DATE PREPARED: 8/8/2024
ROUTE: O/F/NN
STATE: MO
DISTRICT: SL
SHEET NO.: 72
COUNTY: FRANK./JEFF.
JOB NO.: JSL0034
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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4021 • FAX: 314-531-4066 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

SHEET 6 OF 8
D-29

...\72_SN_6_D-29_RteNN.dgn 11:00:01 AM 8/8/2024

ROUTE NN (3 OF 3)

EFFECTIVE 07-01-2022

SIGNS						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS *						PIPE POSTS *					BACKING BARS **				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE												REMARKS AND OTHER REQUIRED ITEMS
902 SIGNAL SIGNS TABULATED ON D-37A SHEET																							2 IN. POST						2.5 IN. POST							
																										ANCHORS					ANCHORS				
SIGN NO.	SIGN SIZE	LOG MILE	HORZ CLEAR IF NOT STD	LOCATION	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	2" X 3/8" BARS @ 2.55 LBS PER FT NO. EACH	LGTH	TOTAL	TOTAL	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 ASSEMBLY ITEM NO. 9031241	
						CY		LF	LF	LF		LBS	IN.	LF	LF		LBS		IN.	LF	LBS		LF	LF	LF	EA	EA	EA	LF	LF	LF	EA	EA	EA	EA	
475	18"x24"	5.388		SB		0.13							2.5	8.75		5.79	50.66																			
476	18"x24"	5.398		SB		0.13							2.5	8.75		5.79	50.66																			
481	18"x24"	5.457		SB		0.13							2.5	8.75		5.79	50.66																			
490	18"x24"	6.363		NB		0.13							2.5	8.75		5.79	50.66																			
492	18"x24"	6.385		NB		0.13							2.5	8.75		5.79	50.66																			
494	18"x24"	6.607		SB		0.13							2.5	8.75		5.79	50.66																			
495	18"x24"	6.618		SB		0.13							2.5	8.75		5.79	50.66																			
506	18"x24"	7.068		SB		0.13							2.5	8.75		5.79	50.66																			
508	18"x24"	7.090		SB		0.13							2.5	8.75		5.79	50.66																			
510	18"x24"	7.102		SB		0.13							2.5	8.75		5.79	50.66																			
512	18"x24"	7.113		SB		0.13							2.5	8.75		5.79	50.66																			
522	36"x48"	7.374		NB																									12		12		1			
523	18"x24"	7.817		NB																			8.75		8.75	1										
524	18"x24"	7.828		NB																			8.75		8.75	1										
525	48"x24"	7.839		NB		0.13							2.5	10.25	10.25	5.79	118.70																			
526	18"x24"	7.850		NB		0.13							2.5	8.75		5.79	50.66																			
527	48"x24"	7.862		NB		0.13							2.5	10.25	10.25	5.79	118.70																			
530	18"x24"	7.900		SB		0.13							2.5	8.75		5.79	50.66																			
531	18"x24"	7.911		SB		0.13							2.5	8.75		5.79	50.66																			
532	48"x24"	7.922		SB		0.13							2.5	10.25	10.25	5.79	118.70																			
533	18"x24"	7.933		SB		0.13							2.5	8.75		5.79	50.66																			
534	48"x24"	7.944		SB		0.13							2.5	10.25	10.25	5.79	118.70																			
535	18"x24"	7.955		SB		0.13							2.5	8.75		5.79	50.66																			
536	18"x24"	7.966		SB		0.13							2.5	8.75		5.79	50.66																			
537	18"x24"	7.978		SB		0.13							2.5	8.75		5.79	50.66																			
538	18"x24"	7.985		NB		0.13							2.5	8.75		5.79	50.66																			
540	36"x36"	8.006		NB																									11		11		1			
546	36"x48"	8.445		NB																									12		12		1			
547	ASSEMBLY	8.504		SB																									13.25		13.25	1	1		1	
548	30"x24"	8.654		NB																			10		10	1										
549	36"x36"	8.709		NB																									11		11		1			
550	ASSEMBLY	8.801		SB		0.36							4	13.25		10.79	142.97																			
551	ASSEMBLY	8.939		SB		0.36							4	13.25		10.79	142.97																			
554	ASSEMBLY	9.045		NB																									13.25		13.25	1	1		1	
555	ASSEMBLY	9.049		SB																									13.25		13.25	1	1		1	
556	18"x24"	9.080		NB																		8.75														
557	18"x24"	9.097		NB																		8.75														
558	48"x24"	9.112		NB																		20.5														
559	18"x24"	9.120		NB																		8.75														
561	18"x24"	9.135		NB																		11.75														
562	12"x36"	9.135		NB																		9.75														
564	48"x24"	9.143		NB																		20.5														
566	18"x24"	9.158		NB																		8.75														
567	18"x24"	9.174		NB																		8.75														
568	18"x24"	9.200		SB		0.13							2.5	8.75		5.79	50.66																			
569	18"x24"	9.212		SB		0.13							2.5	8.75		5.79	50.66																			
570	48"x24"	9.223		SB		0.13							2.5	10.25		5.79	59.35																			
572	18"x24"	9.233		SB		0.13							2.5	8.75		5.79	50.66																			
573	18"x24"	9.243		SB		0.13							2.5	8.75		5.79	50.66																			
574	18"x24"	9.255		SB		0.13							2.5	8.75		5.79	50.66																			
575	ASSEMBLY	9.262		NB																									13.25		13.25	1	1		1	
576	ASSEMBLY	9.313		SB																									13.25		13.25	1	1		1	
578	18"x24"	9.371		NB																		8.75														
579	18"x24"	9.386		NB																		8.75														
580	18"x24"	9.402		NB																		8.75														
581	18"x24"	9.416		NB																		8.75														
582	18"x24"	9.433		NB																		8.75														
583	18"x24"	9.447		NB																		8.75														
584	18"x24"	9.461		SB		0.13							2.5	8.75		5.79	50.66																			
586	ASSEMBLY	10.001		SB		0.13							2.5	13		5.79	75.27																			
589	12"x36"	10.190		SB																					9.75	1										
			SUBTOTAL RTE. NN3			4.75						0					2161.86				0	158.75			37.25	4	0	0			112.25	5	9	0	5	

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
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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
3	7.58	0.63	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
STEPHEN T. SICHMELLER
NUMBER PE-2024017800
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017800
EXPIRATION DATE: 12/31/2024

DATE PREPARED: 8/8/2024
ROUTE: O/F/NN
STATE: MO
DISTRICT: SL
SHEET NO.: 73
COUNTY: FRANK./JEFF.
JOB NO.: JSL0034
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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4021 • FAX: 314-531-4066 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

SHEET 7 OF 8
D-29

...\73_SN_7_D-29_RteNN.dgn 11:01:43 AM 8/8/2024

EFFECTIVE 07-01-2022

SIGNS 902 SIGNAL SIGNS TABULATED ON D-37A SHEET						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS *						PIPE POSTS *					BACKING BARS **				U-CHANNEL POST	PERFORMED SQUARE STEEL TUBE												BREAK-AWAY ASSEMBLY	REMARKS AND OTHER REQUIRED ITEMS
																							2 IN. POST						2.5 IN. POST							
																										ANCHORS						ANCHORS			
SIGN NO.	SIGN SIZE	STATION	HORZ CLEAR IF NOT STD	LOCATION	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	TOTAL	TOTAL	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		IN.	LF	LBS	LF	LF	LF		EA	EA	EA	LF	LF	LF	EA	EA	EA	EA	
SUBTOTAL O1						2.19					0					1339.57				144.08	0			425.5	46	0	0			135.50	5	11	0	5	
SUBTOTAL O2						0.49					0					283.64				148.88	0			428.75	48	0	0			135.75	4	11	0	4	
SUBTOTAL O3						0					0					0				63.79	0			78.25	7	0	0			59.50	1	5	0	1	
SUBTOTAL F						0					0					0				127.53	13			264.72	24	0	0			29.67	3	3	0	3	
SUBTOTAL NN1						4.29					0					1813.65				0	116.75			133.25	14	0	0			24.50	1	2	0	1	
SUBTOTAL NN2						7.41					0					2887.62				0	17.50			8.75	1	0	0			13.25	1	1	0	1	
SUBTOTAL NN3						4.75					0					2161.86				0	158.75			37.25	4	0	0			112.25	5	9	0	5	
FINAL SUBTOTAL						19.13					0					8486.34				484.28	306.00			1376.45	144	0	0			510.42	20	42	0	20	
TOTAL						20					0					8970				**	306			1376	144	0	0			511	20	42	0	20	

* 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
3	7.58	0.63	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.	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

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) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER PE-2024017802
PROFESSIONAL ENGINEER
NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: PE-2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED 8/21/2024
ROUTE O/F/NN
STATE MO
DISTRICT SL
SHEET NO. 74
COUNTY FRANK./JEFF.
JOB NO. JSL0034
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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4351 • FAX: 314-436-2411 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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ROUTE O (1 OF 4)

EFFECTIVE 10-01-2016

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	LOG MILE	LOCATION	TYPE: M1-1 24X24	M1-4 24X24	M1-5a 24X24	M1-5a 24X24	M1-5a 24X24	M1-5a 30X24	M1-5a 30X24	M1-5a 30X24	M1-5a 30X24	M1-5a 30X24	M2-1 21X15	M3-2(BL) 24X12	M3-4(BL) 24X12	M3-4(WH) 24X12	M4-5(BL) 24X12	M4-5(WH) 24X12	M5-1L(WH) 21X15	M6-1(BL) 21X15	M6-1(WH) 21X15	M6-3(BL) 21X15	M6-3(WH) 21X15	M6-4(WH) 21X15	M6-6R(WH) 21X15	OM-3L 12X36	OM-3R 12X36	R1-1 36X36	R1-2 48X48	R2-1 36X48	R2-1 36X48	R2-1 36X48	R3-2 24X24	R5-1 30X30	W1-1L 36X36	W1-1R 36X36	W1-2L 36X36	W1-2R 36X36	W1-3L 36X36	W1-3R 36X36	W1-4L 36X36	W1-6 48X24	W1-7 48X24	W1-8D 18X24	W2-1 36X36	W2-1 48X48	W2-2 36X36	W3-1 36X36	W11-8 36X36	W11-10 36X36	W13-1P 24X24	W13-1P 24X24	W13-1P 24X24	W13-1P 24X24	D2-1 96X24	DL-3(WH) 24X24	D2-2 84X24	D1-3a 84X36	D1-3a 84X36	D2-3 84X36	D1-2a 84X24	D1-2a 84X24	16-1 36X18	16-1 36X18
			SIGN DESCRIPTION, SIZES & NUMBER OF EACH: (44)	50	F	N	O	AK	AM	AT	HH	NN	JCT	EAST	WEST	WEST	TO	TO		OR	OR										STOP	YIELD	SPEED LIMIT 45	SPEED LIMIT 50	SPEED LIMIT 55		30-101 ENTER							OR									

ROUTE O (2 OF 4)

EFFECTIVE 10-01-2016

STANDARD SIGN ASSEMBLIES

| SIGN NUMBER | LOG MILE | LOCATION | TYPE: M1-1 24X24 | M1-4 24X24 | M1-5a 24X24 | M1-5a 24X24 | M1-5a 24X24 | M1-5a 24X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M2-1 21X15 | M3-2(BL) 24X12 | M3-4(BL) 24X12 | M3-4(WH) 24X12 | M4-5(BL) 24X12 | M4-5(WH) 24X12 | M5-1L(WH) 21X15 | M6-1(BL) 21X15 | M6-1(WH) 21X15 | M6-3(BL) 21X15 | M6-3(WH) 21X15 | M6-4(WH) 21X15 | M6-6R(WH) 21X15 | OM-3L 12X36 | OM-3R 12X36 | R1-1 36X36 | R1-2 48X48 | R2-1 36X48 | R2-1 36X48 | R2-1 36X48 | R3-2 24X24 | R5-1 30X30 | W1-1L 36X36 | W1-1R 36X36 | W1-2L 36X36 | W1-2R 36X36 | W1-3L 36X36 | W1-3R 36X36 | W1-4L 36X36 | W1-6 48X24 | W1-7 48X24 | W1-8D 18X24 | W2-1 36X36 | W2-1 48X48 | W2-2 36X36 | W3-1 36X36 | W11-8 36X36 | W11-10 36X36 | W13-1P 24X24 | W13-1P 24X24 | W13-1P 24X24 | W13-1P 24X24 | D2-1 96X24 | DL-3(WH) 24X24 | D2-2 84X24 | D1-3a 84X36 | D1-3a 84X36 | D2-3 84X36 | D1-2a 84X24 | D1-2a 84X24 | 16-1 36X18 | 16-1 36X18 |
|---|---|---

EFFECTIVE 10-01-2016

STANDARD SIGN ASSEMBLIES

TYPE — SIGN DESCRIPTION, SIZES & NUMBER OF EACH

SIGN NUMBER	LOG MILE	LOCATION	M1-1 24X24 (INTERSTATE 44)	M1-4 24X24 (50)	M1-5a 24X24 (F)	M1-5a 24X24 (N)	M1-5a 24X24 (O)	M1-5a 30X24 (AK)	M1-5a 30X24 (AM)	M1-5a 30X24 (AT)	M1-5a 30X24 (HH)	M1-5a 30X24 (NN)	M2-1 21X15 (JCT)	M3-2(BL) 24X12 (EAST)	M3-4(BL) 24X12 (WEST)	M3-4(WH) 24X12 (WEST)	M4-5(BL) 24X12 (TO)	M4-5(WH) 24X12 (TO)	M5-1L(WH) 21X15	M6-1(BL) 21x15	M6-1(WH) 21X15	M6-3(BL) 21X15	M6-3(WH) 21X15	M6-4(WH) 21X15	M6-6R(WH) 21X15	OM-3L 12X36	OM-3R 12X36	R1-1 36X36 (STOP)	R1-2 48X48 (YIELD)	R2-1 36X48 (SPEED LIMIT 45)	R2-1 36X48 (SPEED LIMIT 50)	R2-1 36X48 (SPEED LIMIT 55)	R3-2 24X24	R5-1 30X30 (DO NOT ENTER)	W1-1L 36X36	W1-1R 36X36	W1-2L 36X36	W1-2R 36X36	W1-3L 36X36	W1-3R 36X36	W1-4L 36X36	W1-6 48X24	W1-7 48X24	W1-8D 18X24	W2-1 36X36	W2-1 48X48	W2-2 36X36	W3-1 36X36	W11-8 36X36	W11-10 36X36	W13-1P 24X24 (30 M.P.H.)	W13-1P 24X24 (40 M.P.H.)	W13-1P 24X24 (45 M.P.H.)	W13-1P 24X24 (50 M.P.H.)	D2-1 96X24 (Union / Jefferson City)	DL-3(WH) 24X24	D2-2 84X24 (Robertsville 2 / I-44 8)	D1-3a 84X36 (Pacific 6 / Catawissa / Route 30 10)	D1-3a 84X36 (Robertsville 2 / Route 30 10 / Catawissa)	D2-3 84X36 (Catawissa 3 / Robertsville 5 / I-44 11)	D1-2a 84X24 (Pacific 4 / Route 30 10)	D1-2a 84X24 (Catawissa 3 / Route 30 10)	I6-1 36X18 (Franklin COUNTY LINE)	I6-1 36X18 (Jefferson COUNTY LINE)
163	3.873	EB																									1																																					
164	3.896	WB																									1																																					
165	4.051	EB																																							1											1												
166	4.091	EB																																										1																				
167	4.106	EB																																										1																				
168	4.121	EB																																										1																				
169	4.136	EB																																										1																				
170	4.141	WB																																										1																				
171	4.157	WB																																										1																				
172	4.172	WB																																										1																				
173	4.187	WB																																										1																				
174	4.202	WB																																										1																				
175	4.219	WB																																										1																				
176	4.234	WB																																										1																				
177	4.273	WB																																							1											1												
179	4.398	WB																										1																																				
180	4.274	EB					1																	1																																								
181	4.464	EB																													1																																	
182	4.506	EB					1																																																									
183	4.677	EB																																				1														1												
184	4.697	EB																										1																																				
185	4.934	WB																										1																																				
186	5.016	EB																										1																																				
187	5.056	EB						1					1																																																			
188	5.055	WB																																			1															1												
189	5.101	EB																																							1											1												
190	5.173	WB																													1																																	
191	5.196	EB					1	1													1		1																																								
192	5.208	WB					1																																																								
193	5.241	WB					1																	1																																								
194	5.264	WB					1	1													1		1																																								
195	5.285	EB					1																																																								
196	5.421	WB						1					1																																																			
197	5.435	EB																										1																																				
198	5.473	WB																										1																																				
199	5.600	WB																																							1											1												
200	5.653	EB																																															1															
201	5.683	EB																												1																																		
202	5.741	EB				1							1																																																		
203	5.741	WB																																													1																	
204	5.787	EB																																													1																	
205	5.810	EB																										1																																				
206	5.861	WB																																															1															
207	5.872	EB				1	1																1		1																																2								
208	5.986	WB				1	1														1		1																																2								
209	5.917	EB				1	1																																																								
210	5.963	EB																										1																																				
211	5.986	EB																																													1																	
212	5.986	WB																																													1																	
213	6.030	WB																	1																																													
214	6.042	EB																										1																																				
215	6.057	EB																													1																																	
216	6.063	WB																												1																																		
217	6.083	WB																										1																																				
218	6.163	EB																									1																																					
219	6.166	WB																								1																																						
220	6.169	EB																								1																																						
221	6.170	WB																									1																																					
222	6.304	EB																																			1																1											
223	6.576	WB																																				1															1											
224	6.606	EB																														1																																
225	6.614	WB																													1																																	
226	6.753	EB																										1																																				
227	7.131	EB																										1																																				
228	7.238	WB																										1																																				
RTE O-SUB TOTAL 3						4	10	4					3						1		3		4	2	1	2	4	13		2	4	1					2	2			4			11			4		2			4	2	2		4								

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STATE OF MISSOURI — STEPHEN T. SICHMELLER — NUMBER PE-2024017802 — PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED 8/8/2024
ROUTE O/F/NN | STATE MO
DISTRICT SL | SHEET NO. 77
COUNTY FRANK./JEFF.
JOB NO. JSL0034
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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

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ROUTE O (4 OF 4)

EFFECTIVE 10-01-2016

STANDARD SIGN ASSEMBLIES

| SIGN NUMBER | LOG MILE | LOCATION | M1-1 24X24 | M1-4 24X24 | M1-5a 24X24 | M1-5a 24X24 | M1-5a 24X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M2-1 21X15 | M3-2(BL) 24X12 | M3-4(BL) 24X12 | M3-4(WH) 24X12 | M3-4(WH) 24X12 | M4-5(BL) 24X12 | M4-5(WH) 24X12 | M5-1L(WH) 21X15 | M6-1(BL) 21X15 | M6-1(WH) 21X15 | M6-3(BL) 21X15 | M6-3(WH) 21X15 | M6-4(WH) 21X15 | M6-6R(WH) 21X15 | OM-3L 12X36 | OM-3R 12X36 | R1-1 36X36 | R1-2 48X48 | R2-1 36X48 | R2-1 36X48 | R2-1 36X48 | R3-2 24X24 | R5-1 30X30 | W1-1L 36X36 | W1-1R 36X36 | W1-2L 36X36 | W1-2R 36X36 | W1-3L 36X36 | W1-3R 36X36 | W1-4L 36X36 | W1-6 48X24 | W1-7 48X24 | W1-8D 18X24 | W2-1 36X36 | W2-1 48X48 | W2-2 36X36 | W3-1 36X36 | W11-8 36X36 | W11-10 36X36 | W13-1P 24X24 | W13-1P 24X24 | W13-1P 24X24 | W13-1P 24X24 | D2-1 96X24 | DL-3(WH) 24X24 | D2-2 84X24 | D1-3a 84X36 | D1-3a 84X36 | D2-3 84X36 | D1-2a 84X24 | D1-2a 84X24 | 16-1 36X18 | 16-1 36X18 |
|---|---|---

EFFECTIVE 10-01-2016

ROUTE F (1 OF 1)

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	LOG MILE	LOCATION	TYPE: I6-1 36X18	I6-1 36X18	M1-5a 24X24	M1-5a 24X24	M2-1 21X15	M6-1L(MH) 21X15	M6-1(MH) 21X15	M6-3(MH) 21X15	M6-6R(MH) 21X15	R1-1 36X36	R2-1 36X48	R2-1 36X48	R2-1 36X48	R12-1 36X48	W1-2L 36X36	W1-2R 36X36	W1-7 48X24	W3-5 36X36	W13-1P 24X24	W13-1P 24X24	SPECIAL 36X48	SPECIAL 36X48	SPECIAL 36X48	D4-1P-30 30X06	D4-2R-30 30X36	D4-2L-30 30X36	D11-1-24 24X18	M1-5a 30X24	M1-2 24X24	R1-3P 30X12	R2-1 36X48	R2-1 24X30	R2-1 24X30	W4-4dPR 24X18	W4-4dPL 24X18	W4-4bP 24X18	W10-1 42X42	M6-1(RR) 21X15
			SIGN DESCRIPTION, SIZES & NUMBER OF EACH: Frankin (county) sign	Jefferson (county) sign	F	0	JCT		OR			STOP	SPEED LIMIT 35	SPEED LIMIT 50	SPEED LIMIT 55	WEIGHT LIMIT 55 TONS					50 MPH	60 MPH	TRUCK ROUTE TO INDUSTRIAL PARK	TRUCK ROUTE TO INDUSTRIAL PARK	TRUCK ROUTE TO INDUSTRIAL PARK	(MISSOURI)	PARK & RIDE	PARK & RIDE	BIKE ROUTE	00	(ILLINOIS) 44	ALL-WAY	SPEED LIMIT 25	SPEED LIMIT 25	SPEED LIMIT 35	TRUCK USE NEXT RIGHT	TRUCK USE NEXT RIGHT	TRUCKS USE NEXT RIGHT	R R	
1	0.626	RT																					1																
2	0.681	RT			1																																		
3	0.789	RT												1																									
4	0.796	LT											1																										
5	0.836	RT															1					1																	
6	0.866	LT																		1																			
7	0.885	RT																						1															
8	0.910	LT																	1																				
9	0.916	RT										1																											
10	0.958	LT																							1														
11	1.178	RT													1																								
13	1.210	LT																1				1																	
14	1.221	RT														1																							
15	1.378	LT	1																																				
16	1.389	RT		1																																			
17	1.406	LT														1																							
18	1.433	RT																1				1																	
19	1.488	LT										1																											
20	1.627	LT										1																											
21	1.854	LT															1					1																	
22	2.264	RT				1	1																															
23	2.332	LT													1																								
24	2.359	RT			1	1		1		1																													
25	2.393	LT			1																																		
26	2.462	RT			1	1			1	1																													
27	2.460	LT			1																																		
28	2.475	RT																	1																				
29	2.475	LT			1	1			2																														
30	2.485	LT										1																											
31	2.492	RT				1																																	
32	2.507	LT			2	1			1	1	1																												
600	0.016	RT			1																																		
601	0.026	RT																														1							
602	0.047	RT																					1																
603	0.054	LT					1																							1	1								
604	0.060	RT										1																				1							
605	0.064	LT										1																				1							
606	0.072	RT										1																				1							
607	0.078	LT										1																				1							
608	0.129	RT										1																									1		
609	0.133	LT										1																										1	
610	0.144	RT										1																											
611	0.151	RT																																				1	
612	0.154	LT																												1								1
613	0.158	RT																								1	1												
614	0.170	RT																												1								1
615	0.205	LT																								1		1											
616	0.213	LT																															1						
617	0.219	LT																																				1	
618	0.220	RT																																1					
619	0.262	LT										1																											
620	0.287	RT																					1																
621	0.335	LT										1																											
622	0.344	RT										1																											
623	0.357	LT																																1					
624	0.402	LT										1																											
625	0.410	RT										1																											
626	0.443	RT																																1					
627	0.479	RT										1																											
628	0.546	RT										1																											
629	0.588	LT																																1					
ROUTE F- SUBTOTAL			1	1	9	6	2	1	4	3	1	18	1	1	2	2	2	2	2	1	2	2	3	1	1		2	1	1	2	1	1	4	1	1	4	1	1	1	2	2

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) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

STATE OF MISSOURI
JOHN A. HOCK
NUMBER E-23292
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/19/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	79

COUNTY: FRANK/JEFF
JOB NO.: JSL0034
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE | REV.

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

EDSI
ENGINEERING DESIGN SOURCE, INC.
16141 Swingley Ridge Rd., Suite 300
Chesterfield, Missouri 63017
Missouri State Engineering Corporation #001523
T. 636 537 5585
F. 636 537 0275

ROUTE NN (1 OF 5)

EFFECTIVE 10-01-2016

STANDARD SIGN ASSEMBLIES

| SIGN NUMBER | LOG MILE | LOCATION | TYPE: M1-1 24X24 | M1-4 24X24 | M1-5 24X24 | M1-5a 24X24 | M1-5a 24X24 | M1-5a 24X24 | M1-5a 24X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M2-1 21X15 | M5-1L(WH) 21X15 | M5-1L(WH) 21X15 | M6-1(WH) 21X15 | M6-3(BL) 21X15 | M6-3(WH) 21X15 | M6-4(WH) 21X15 | M6-6R(WH) 21X15 | M19-1 18X12 | M19-2 18X12 | OM-3L 12X36 | OM-3R 12X36 | R1-1 36X36 | R1-2 48X48 | R2-1 36X48 | R2-1 36X48 | R2-1 36X48 | R3-2 24X24 | R5-1 30X30 | W1-1L 36X36 | W1-1R 36X36 | W1-2L 36X36 | W1-2R 36X36 | W1-3L 36X36 | W1-3R 36X36 | W1-4L 36X36 | W1-4R 36X36 | W1-6 48X24 | W1-7 48X24 | W1-8D 18X24 | SPECIAL 36X36 | SPECIAL 36X36 | W2-1 36X36 | W2-1 48X48 | W2-2 36X36 | W3-1 36X36 | W3-3 36X36 | W11-8 36X36 | W11-10 36X36 | W13-1P 24X24 | W13-1P 24X24 | W13-1P 24X24 | W13-1P 24X24 | W13-1P 24X24 | DL-3(WH) 24X24 | DL-3(YL) 24X24 | D1-3a 84X36 | S3-1 36X36 | W1-10L 36X36 |
|---|---|---

ROUTE NN (2 OF 5)

EFFECTIVE 10-01-2016

STANDARD SIGN ASSEMBLIES

| SIGN NUMBER | LOG MILE | LOCATION | TYPE: M1-1 24X24 | M1-4 24X24 | M1-5 24X24 | M1-5a 24X24 | M1-5a 24X24 | M1-5a 24X24 | M1-5a 24X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M2-1 21X15 | M5-1L(WH) 21X15 | M5-1L(WH) 21X15 | M6-1(WH) 21X15 | M6-3(BL) 21X15 | M6-3(WH) 21X15 | M6-4(WH) 21X15 | M6-6R(WH) 21X15 | M19-1 18X12 | M19-2 18X12 | OM-3L 12X36 | OM-3R 12X36 | R1-1 36X36 | R1-2 48X48 | R2-1 36X48 | R2-1 36X48 | R2-1 36X48 | R3-2 24X24 | R5-1 30X30 | W1-1L 36X36 | W1-1R 36X36 | W1-2L 36X36 | W1-2R 36X36 | W1-3L 36X36 | W1-3R 36X36 | W1-4L 36X36 | W1-4R 36X36 | W1-6 48X24 | W1-7 48X24 | W1-8D 18X24 | SPECIAL 36X36 | SPECIAL 36X36 | W2-1 36X36 | W2-1 48X48 | W2-2 36X36 | W3-1 36X36 | W3-3 36X36 | W11-8 36X36 | W11-10 36X36 | W13-1P 24X24 | W13-1P 24X24 | W13-1P 24X24 | W13-1P 24X24 | W13-1P 24X24 | DL-3(WH) 24X24 | DL-3(YL) 24X24 | D1-3a 84X36 | S3-1 36X36 | W1-10L 36X36 |
|---|---|---

ROUTE NN (3 OF 5)

EFFECTIVE 10-01-2016

STANDARD SIGN ASSEMBLIES

| SIGN NUMBER | LOG MILE | LOCATION | TYPE: M1-1 24X24 | M1-4 24X24 | M1-5 24X24 | M1-5a 24X24 | M1-5a 24X24 | M1-5a 24X24 | M1-5a 24X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M2-1 21X15 | M5-1L(WH) 21X15 | M5-1L(WH) 21X15 | M6-1(WH) 21X15 | M6-3(BL) 21X15 | M6-3(WH) 21X15 | M6-4(WH) 21X15 | M6-6R(WH) 21X15 | M19-1 18X12 | M19-2 18X12 | OM-3L 12X36 | OM-3R 12X36 | R1-1 36X36 | R1-2 48X48 | R2-1 36X48 | R2-1 36X48 | R2-1 36X48 | R3-2 24X24 | R5-1 30X30 | W1-1L 36X36 | W1-1R 36X36 | W1-2L 36X36 | W1-2R 36X36 | W1-3L 36X36 | W1-3R 36X36 | W1-4L 36X36 | W1-4R 36X36 | W1-6 48X24 | W1-7 48X24 | W1-8D 18X24 | SPECIAL 36X36 | SPECIAL 36X36 | W2-1 36X36 | W2-1 48X48 | W2-2 36X36 | W3-1 36X36 | W3-3 36X36 | W11-8 36X36 | W11-10 36X36 | W13-1P 24X24 | W13-1P 24X24 | W13-1P 24X24 | W13-1P 24X24 | W13-1P 24X24 | DL-3(WH) 24X24 | DL-3(YL) 24X24 | D1-3a 84X36 | S3-1 36X36 | W1-10L 36X36 |
|---|---|---

ROUTE NN (4 OF 5)

EFFECTIVE 10-01-2016

STANDARD SIGN ASSEMBLIES

| SIGN NUMBER | LOG MILE | LOCATION | TYPE: M1-1 24X24 | M1-4 24X24 | M1-5 24X24 | M1-5a 24X24 | M1-5a 24X24 | M1-5a 24X24 | M1-5a 24X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M2-1 21X15 | M5-1L(WH) 21X15 | M5-1L(WH) 21X15 | M6-1(WH) 21X15 | M6-3(BL) 21X15 | M6-3(WH) 21X15 | M6-4(WH) 21X15 | M6-6R(WH) 21X15 | M19-1 18X12 | M19-2 18X12 | OM-3L 12X36 | OM-3R 12X36 | R1-1 36X36 | R1-2 48X48 | R2-1 36X48 | R2-1 36X48 | R2-1 36X48 | R3-2 24X24 | R5-1 30X30 | W1-1L 36X36 | W1-1R 36X36 | W1-2L 36X36 | W1-2R 36X36 | W1-3L 36X36 | W1-3R 36X36 | W1-4L 36X36 | W1-4R 36X36 | W1-6 48X24 | W1-7 48X24 | W1-8D 18X24 | SPECIAL 36X36 | SPECIAL 36X36 | W2-1 36X36 | W2-1 48X48 | W2-2 36X36 | W3-1 36X36 | W3-3 36X36 | W11-8 36X36 | W11-10 36X36 | W13-1P 24X24 | W13-1P 24X24 | W13-1P 24X24 | W13-1P 24X24 | W13-1P 24X24 | DL-3(WH) 24X24 | DL-3(YL) 24X24 | D1-3a 84X36 | S3-1 36X36 | W1-10L 36X36 |
|---|---|---

ROUTE NN (5 OF 5)

EFFECTIVE 10-01-2016

STANDARD SIGN ASSEMBLIES

| SIGN NUMBER | LOG MILE | LOCATION | TYPE: M1-1 24X24 | M1-4 24X24 | M1-5 24X24 | M1-5a 24X24 | M1-5a 24X24 | M1-5a 24X24 | M1-5a 24X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M1-5a 30X24 | M2-1 21X15 | M5-1L(WH) 21X15 | M5-1L(WH) 21X15 | M6-1(WH) 21X15 | M6-3(BL) 21X15 | M6-3(WH) 21X15 | M6-4(WH) 21X15 | M6-6R(WH) 21X15 | M19-1 18X12 | M19-2 18X12 | OM-3L 12X36 | OM-3R 12X36 | R1-1 36X36 | R1-2 48X48 | R2-1 36X48 | R2-1 36X48 | R2-1 36X48 | R3-2 24X24 | R5-1 30X30 | W1-1L 36X36 | W1-1R 36X36 | W1-2L 36X36 | W1-2R 36X36 | W1-3L 36X36 | W1-3R 36X36 | W1-4L 36X36 | W1-4R 36X36 | W1-6 48X24 | W1-7 48X24 | W1-8D 18X24 | SPECIAL 36X36 | SPECIAL 36X36 | W2-1 36X36 | W2-1 36X36 | W2-2 36X36 | W3-1 36X36 | W3-3 36X36 | W11-8 36X36 | W11-10 36X36 | W13-1P 24X24 | W13-1P 24X24 | W13-1P 24X24 | W13-1P 24X24 | W13-1P 24X24 | DL-3(WH) 24X24 | DL-3(YL) 24X24 | D1-3a 84X36 | S3-1 36X36 | W1-10L 36X36 |
|---|---|---

SIGN SUMMARY (1 0F 2)

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		5	24X24	20			
M1-2		1	24X24	4			
M1-4		4	24X24	16			
M1-5		2	24X24	8			
M1-5A_F		10	24X24	40			
M1-5A_N		9	24X24	36			
M1-5A_O		38	24X24	152			
M1-5A_B		2	24X24	8			
M1-5A_AK		4	30X24	20			
M1-5A_AM		4	30X24	20			
M1-5A_AP		2	30X24	10			
M1-5A_AT		4	30X24	20			
M1-5A_HH		4	30X24	20			
M1-5A_NN		21	30X24	105			
M1-5A_OO		1	30X24	5			
M2-1		17	21X15	37.19			
M3-2(BL)		2	24X12	4			
M3-4(BL)		2	24X12	4			
M3-4(WH)		2	24X12	4			
M4-5(BL)		5	24X12	10			
M4-5(WH)		5	24X12	10			
M5-1L(WH)		4	21X15	8.75			
M5-1R(WH)		1	21X15	2.19			
M6-1(BL)		2	21X15	4.38			
M6-1(WH)		20	21X15	43.75			
M6-1(GR)		2	21X15	4.38			
M6-3(BL)		3	21X15	6.56			
M6-3(WH)		18	21X15	39.38			
M6-4(WH)		9	21X15	19.69			
M6-6R(WH)		4	21X15	8.75			
M9-1		1	18X12	1.5			
M9-2		1	18X12	1.5			
OM-3L		11	12X36		33		
OM-3R		15	12X36		45		
R1-1		50	36X36	450			
R1-2		2	48X48	32			
R1-3P		4	30X12	10			
R2-1_25		1	36X48	12			
R2-1_25		1	24X30	5			
R2-1_35		4	24X30	20			
R2-1_35		1	36X48	12			
R2-1_45		7	36X48	84			
R2-1_50		7	36X48	84			
R2-1_55		13	36X48	156			
R3-2		2	24X24	8			
R5-1		1	30X30	6.25			
R12-1		2	36X48	24			
S3-1		1	36X36	9			
W1-1L		4	36X36		36		
W1-1R		2	36X36		18		
W1-2L		16	36X36		144		
W1-2R		14	36X36		126		
W1-3L		2	36X36		18		
W1-3R		5	36X36		45		
W1-4L		7	36X36		63		
W1-4R		1	36X36		9		
W1-6		31	48X24		248		
W1-7		6	48X24		48		
W1-8D		254	18X24		762		
	SUBTOTAL 1			1606.27	1595		

* ORANGE, YELLOW & YELLOW/GREEN

DISCLAIMER
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STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/19/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	85

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

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)

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-431-4287 FAX: 314-436-2405 WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

...\02_Final\85_SN_11_D-30_SUM.dgn 8:28:19 PM 8/19/2024

EFFECTIVE 10-01-2016

SIGN SUMMARY (2 OF 2)

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
W2-1		4	36X36		36		
W2-1		2	48X48		32		
W2-2		5	36X36		45		
W3-1		1	36X36		9		
W3-3		1	36X36		9		
W3-5		1	36X36		9		
W11-8		2	36X36		18		
W1-10		2	36X36		18		
W13-1P_30		13	24X24		52		
W13-1P_35		3	24X24		12		
W13-1P_40		18	24X24		72		
W13-19_45		8	24X24		32		
W13-1P_50		8	24X24		32		
W13-1P_55		2	24X24		8		
W4-4aPR		1	24X18	3			
W4-4aPL		1	24X18	3			
W4-4bP		1	24X18	3			
W10-1		2	48X48	32			
D4-1P-30		2	30X6	2.5			
D4-2R-30		1	30X36	7.5			
D4-2L-30		1	30X36	7.5			
D11-1-24		2	24X18	6			
DL-3(WHITE)		5	4X72		10		
DL-3(YELLOW)		23	4X72		46		
D1-2A (SIGN 42)	87	1	96X24			16	
D2-2 (SIGN 231)	87	1	84X24			14	
D1-3A (SIGN 237)	87	1	84X36			21	
D1-3A (SIGN 242)	87	1	84X36			21	
D2-3 (SIGN 262)	87	1	84X36			21	
D1-2A (SIGN 263)	87	1	84X24			14	
D1-2A (SIGN 270)	88	1	84X24			14	
SPECIAL (SIGN 279)	88	2	36X18	9			
SPECIAL (SIGN 280)	88	2	36X18	9			
D1-3A (SIGN 590)	89	1	84X36			21	
SPECIAL (SIGN 482)	89	1	36X36		9		
SPECIAL (SIGN 01)	88	1	36X48	12			
SPECIAL (SIGN 07)	88	1	36X48	12			
SPECIAL (SIGN 10)	88	1	36X48	12			
SPECIAL (SIGN 467)	89	1	36X36		9		
	SUBTOTAL 2			118.5	458	142	
	SUBTOTAL 1			1606.27	1595		
	SUBTOTAL 2			118.5	458	142	
	TOTAL			1725	2053	142	

* ORANGE, YELLOW & YELLOW/GREEN

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STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/19/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	86

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

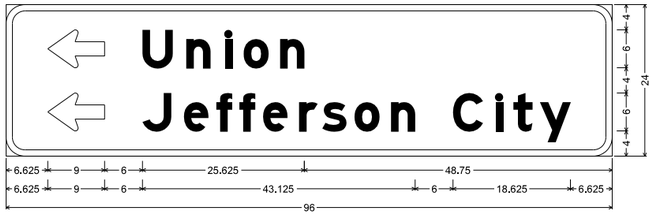
DESCRIPTION	DATE

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

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-431-4321 FAX: 314-436-2405 WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

SHEET 12 OF 12
D-30

...\86_SN_12_D-30_SUM_2.dgn 8:45:49 PM 8/19/2024

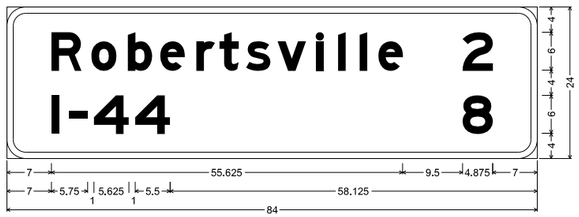


SIGN NO.	42
LOG MILE	L.M. 0.056
ROADWAY	WB ROUTE O

D1-2 ST-STRUCTURAL;
3.000" Radius, 1.000" Border, White on, Green;
Standard Arrow Custom 9.000" X 6.000" 180"; "Union", E Mod; Standard Arrow Custom 9.000" X 6.000" 180';
"Jefferson City", E Mod;
Table of letter and object lefts

⇦	U	n	l	o	n
6.625	21.625	28.500	34.625	37.625	43.375

⇦	J	e	f	f	e	r	s	o	n	C	l	t	y
6.625	21.625	28.125	33.250	37.000	40.750	46.375	50.125	55.125	61.000	70.750	77.500	80.375	84.500



SIGN NO.	231
LOG MILE	L.M. 7.674
ROADWAY	WB ROUTE O

D2-2 ST-STRUCTURAL;
3.000" Radius, 1.000" Border, White on, Green;
"Robertsville", E Mod; "2", E Mod; "I- 4 4", E Mod; "8", E Mod;
Table of letter and object lefts

R	o	b	e	r	t	s	v	i	l	l	e	2
7.000	13.375	19.125	24.250	30.000	33.625	37.875	42.875	49.000	52.500	55.875	58.875	72.125

I	-	4	4	8
7.000	9.750	13.750	20.375	72.125

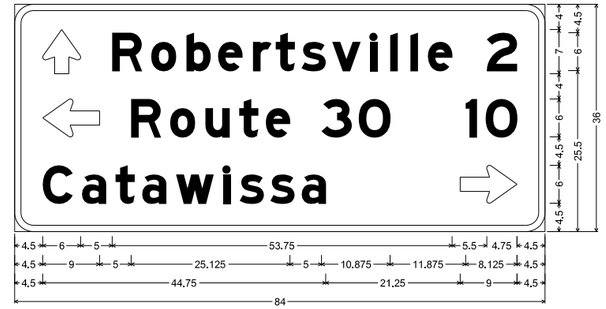
SIGN NO.	237
LOG MILE	L.M. 7.832
ROADWAY	EB ROUTE O

D1-3a ST-STRUCTURAL;
3.000" Radius, 1.000" Border, White on, Green;
Standard Arrow Custom 7.000" X 6.000" 90"; "Pacific", E Mod; "6", E Mod;
Standard Arrow Custom 9.000" X 6.000" 180"; "Catawissa", E Mod; "Route 30", E Mod; "10", E Mod;
Standard Arrow Custom 9.000" X 6.000" 0";
Table of letter and object lefts

⇧	P	a	c	i	f	i	c	6
6.000	17.000	23.125	28.875	34.500	37.375	41.625	44.625	73.250

⇦	C	a	t	a	w	l	s	s	a
6.000	20.000	26.375	31.875	36.125	41.750	49.375	52.125	57.125	62.250

R	o	u	t	e	3	O	!	O	⇨
6.000	12.250	18.125	23.625	27.875	36.750	42.750	55.750	59.125	69.000



SIGN NO.	242
LOG MILE	L.M. 7.977
ROADWAY	WB ROUTE O

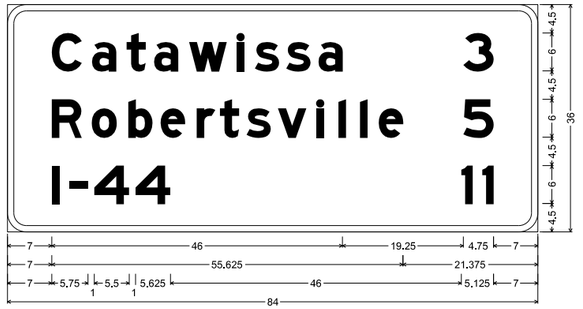
D1-3a ST-STRUCTURAL;
3.000" Radius, 1.000" Border, White on, Green;
Standard Arrow Custom 7.000" X 6.000" 90"; "Robertsville", E Mod 90% spacing;
"2", E Mod 90% spacing; Standard Arrow Custom 9.000" X 6.000" 180";
"Route 30", E Mod 90% spacing; "10", E Mod 90% spacing; "Catawissa", E Mod 90% spacing;
Standard Arrow Custom 9.000" X 6.000" 0";
Table of letter and object lefts

⇧	R	o	b	e	r	t	s	v	l	l	e
4.500	15.500	21.625	27.250	32.250	37.750	41.375	45.375	50.250	56.250	59.500	62.625	65.500

2
74.750

⇦	R	o	u	t	e	3	O	l	O
4.500	18.500	24.625	30.250	35.500	39.750	48.625	54.500	71.375	74.625

C	a	t	a	w	l	s	s	a	⇨
4.500	10.625	16.000	20.125	25.500	33.000	35.625	40.500	45.500	70.500



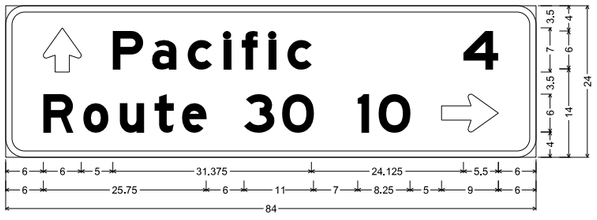
SIGN NO.	262
LOG MILE	L.M. 10.431
ROADWAY	WB ROUTE O

D2-3 ST-STRUCTURAL;
3.000" Radius, 1.000" Border, White on, Green;
"Catawissa", E Mod; "3", E Mod; "Robertsville", E Mod; "5", E Mod; "I- 4 4", E Mod; "11", E Mod;
Table of letter and object lefts

C	a	t	a	w	l	s	s	a	3
7.000	13.375	18.875	23.250	28.750	36.375	39.125	44.125	49.250	72.250

R	o	b	e	r	t	s	v	l	l	e	5
7.000	13.375	19.125	24.250	30.000	33.625	37.875	42.875	49.000	52.375	55.875	58.750	72.250

I	-	4	4	I	5
7.000	9.750	13.750	20.250	71.875	75.250



SIGN NO.	263
LOG MILE	L.M. 10.439
ROADWAY	EB ROUTE O

D1-2a ST-STRUCTURAL;
3.000" Radius, 1.000" Border, White on, Green;
Standard Arrow Custom 7.000" X 6.000" 90"; "Pacific", E Mod; "4", E Mod; "Route 30", E Mod;
"10", E Mod; Standard Arrow Custom 9.000" X 6.000" 0";
Table of letter and object lefts

⇧	P	a	c	i	f	i	c	4
6.000	17.000	23.125	28.875	34.500	37.375	41.625	44.625	72.500

R	o	u	t	e	3	O	!	O	⇨
6.000	12.250	18.125	23.625	27.875	37.750	43.750	55.750	59.125	69.000

DISCLAIMER
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STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER PE-2024017802
PROFESSIONAL ENGINEER
NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/6/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	87

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

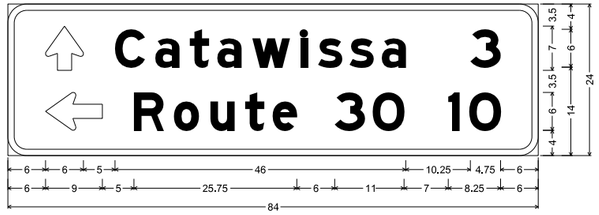
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

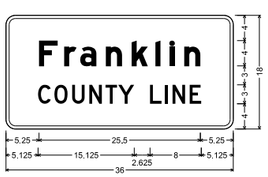
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
MoDOT
HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 FAX 314-436-2405 WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024



SIGN NO.	270
LOG MILE	L.M. 10.593
ROADWAY	WB ROUTE O

D1-2a ST-STRUCTURAL;
3.000" Radius, 1.000" Border, White on, Green;
Standard Arrow Custom 7.000" X 6.000" 90°; "Catawissa", E Mod; "3", E Mod;
Standard Arrow Custom 9.000" X 6.000" 180°; "Route 30", E Mod; "10", E Mod;
Table of letter and object lefts

⇧ 6.000	C 17.000	a 23.375	t 28.875	a 33.125	w 38.750	l 46.375	s 49.125	s 54.125	a 59.250	3 73.250
⇦ 6.000	R 20.000	o 26.250	u 32.125	t 37.625	e 41.875	3 51.750	O 57.750	l 69.750	O 73.125	

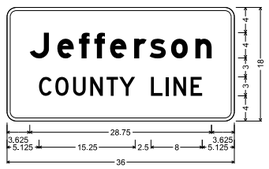


SIGN NO.	279
LOG MILE	L.M. 11.594
ROADWAY	WB ROUTE O

SIGN NO.	15
LOG MILE	L.M. 1.378
ROADWAY	NB ROUTE F

I6-1 SH-FLAT SHEET;
1.500" Radius, 0.500" Border, White on, Green;
"Franklin", E Mod; "COUNTY LINE", D;
Table of letter and object lefts

F 5.250	r 9.250	a 11.750	n 15.750	k 19.875	l 23.625	l 25.875	n 28.250	
C 5.125	O 7.625	U 10.500	N 13.250	T 15.750	Y 17.750			
L 22.875	I 25.250	N 26.375	E 29.125					

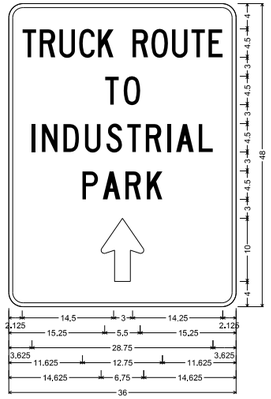


SIGN NO.	280
LOG MILE	L.M. 11.594
ROADWAY	EB ROUTE O

SIGN NO.	16
LOG MILE	L.M. 1.389
ROADWAY	SB ROUTE F

I6-1 SH-FLAT SHEET;
1.500" Radius, 0.500" Border, White on, Green;
"Jefferson", E Mod; "COUNTY LINE", D;
Table of letter and object lefts

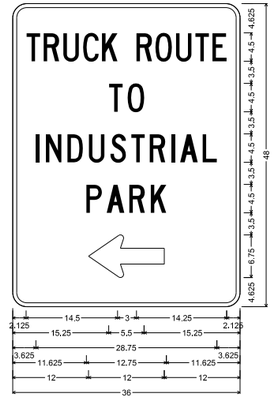
J 3.625	e 8.000	f 11.375	f 13.875	e 16.375	r 20.125	s 22.625	o 26.000	n 29.875	
C 5.125	O 7.625	U 10.500	N 13.250	T 15.750	Y 17.750				
L 22.875	I 25.250	N 26.375	E 29.125						



SIGN NO.	1
LOG MILE	L.M. 0.626
ROADWAY	SB ROUTE F

SPECIAL SH-FLAT SHEET;
2.250" Radius, 0.625" Border, White on, Green;
"TRUCK ROUTE", C 70% spacing; "TO", C;
"INDUSTRIAL", C; "PARK", C;
Standard Arrow Custom 10.000" X 6.750" 90°;
Table of letter and object lefts

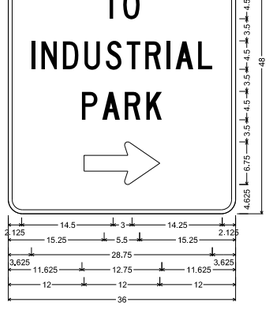
T 2.125	R 4.875	U 8.000	C 11.125	K 14.125						
	R 19.625	O 22.625	U 25.875	T 28.875	E 31.625					
T 15.250	O 18.250									
I 3.625	N 5.250	D 8.625	U 12.125	S 15.500	T 18.750	R 21.750	I 25.125	A 26.500	L 30.125	
P 11.625	A 14.875	R 18.500	K 21.875							
Q 14.625										



SIGN NO.	10
LOG MILE	L.M. 0.958
ROADWAY	NB ROUTE F

SPECIAL SH-FLAT SHEET;
2.250" Radius, 0.625" Border, White on, Green;
"TRUCK ROUTE", C 70% spacing; "TO", C;
"INDUSTRIAL", C; "PARK", C;
Standard Arrow Custom 12.000" X 6.750" 180°;
Table of letter and object lefts

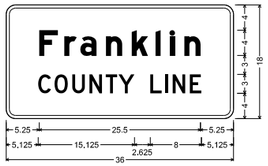
T 2.125	R 4.875	U 8.000	C 11.125	K 14.125						
	R 19.625	O 22.625	U 25.875	T 28.875	E 31.625					
T 15.250	O 18.250									
I 3.625	N 5.250	D 8.625	U 12.125	S 15.500	T 18.750	R 21.750	I 25.125	A 26.500	L 30.125	
P 11.625	A 14.875	R 18.500	K 21.875							
⇦ 12.000										



SIGN NO.	7
LOG MILE	L.M. 0.885
ROADWAY	SB ROUTE F

SPECIAL SH-FLAT SHEET;
2.250" Radius, 0.625" Border, White on, Green;
"TRUCK ROUTE", C 70% spacing; "TO", C;
"INDUSTRIAL", C; "PARK", C;
Standard Arrow Custom 12.000" X 6.750" 0°;
Table of letter and object lefts

T 2.125	R 4.875	U 8.000	C 11.125	K 14.125						
	R 19.625	O 22.625	U 25.875	T 28.875	E 31.625					
T 15.250	O 18.250									
I 3.625	N 5.250	D 8.625	U 12.125	S 15.500	T 18.750	R 21.750	I 25.125	A 26.500	L 30.125	
P 11.625	A 14.875	R 18.500	K 21.875							
⇨ 12.000										



I6-1 SH-FLAT SHEET;
1.500" Radius, 0.500" Border, White on, Green;
"Franklin", E Mod; "COUNTY LINE", D;
Table of letter and object lefts

F 5.250	r 9.250	a 11.750	n 15.750	k 19.875	l 23,625	l 25.875	n 28.250	
C 5.125	O 7,625	U 10.500	N 13,250	T 15,750	Y 17,750			
L 22.875	I 25.250	N 26.375	E 29.125					

SIGN NO.	15
LOG MILE	L.M. 1.378
ROADWAY	NB ROUTE F

DISCLAIMER
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STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/6/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	88

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

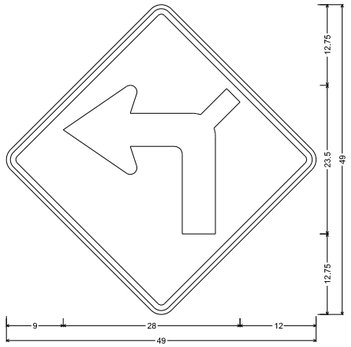
DESCRIPTION

DATE

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

HORNER SHIFRIN
401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 FAX: 314-436-2306 WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

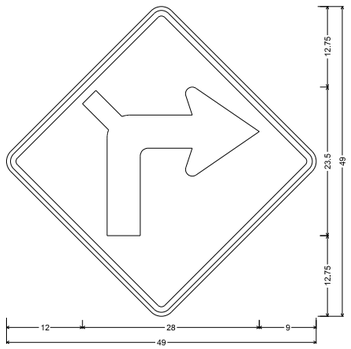
EFFECTIVE 10-01-2016



SIGN NO.	467
LOG MILE	L.M. 5.284
ROADWAY	SB ROUTE NN

SPECIAL SHF-FLAT SHEET FLUORESCENT;
36.000" across sides 2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Yellow;
Table of letter and object lefts

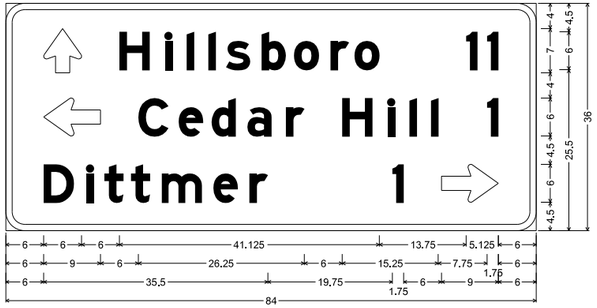
9.000



SIGN NO.	482
LOG MILE	L.M. 5.539
ROADWAY	NB ROUTE NN

W0-1 SHF-FLAT SHEET FLUORESCENT;
36.000" across sides 2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Yellow;
Table of letter and object lefts

12.000



SIGN NO.	590
LOG MILE	10.186
ROADWAY	SB ROUTE NN

D1-3a ST-STRUCTURAL;
3.000" Radius, 1.000" Border, White on, Green;
Standard Arrow Custom 7.000" X 6.000" 90'; "Hillsboro", E Mod; "11", E Mod;
Standard Arrow Custom 9.000" X 6.000" 180'; "Cedar Hill", E Mod; "1", E Mod; "Dittmer", E Mod;
"1", E Mod; Standard Arrow Custom 9.000" X 6.000" 0';
Table of letter and object lefts

⇧ 6.000	H 18.000	l 25.250	l 28.625	l 32.125	s 34.875	b 40.500	o 45.625	r 51.375	o 55.250	1 72.875	1 76.250
⇦ 6.000	C 21.000	e 27.375	d 32.625	a 38.250	r 44.375	H 53.250	l 60.500	l 63.875	l 67.375	1 76.250	
D 6.000	l 12.750	t 15.625	t 19.875	m 24.750	e 32.875	r 38.625	1 61.250	⇨ 69.000			

DISCLAIMER
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SHEET 3 OF 3

D-31

STATE OF MISSOURI
STEPHEN T. SICHMELLER
NUMBER
PE-2024017802
PROFESSIONAL ENGINEER

NAME: STEPHEN SICHMELLER
DISCIPLINE: TRANSPORTATION
LICENSE NO: 2024017802
EXPIRATION DATE: 12/31/2024

DATE PREPARED
8/6/2024

ROUTE	STATE
O/F/NN	MO
DISTRICT	SHEET NO.
SL	89

COUNTY
FRANK./JEFF.

JOB NO.
JSL0034

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

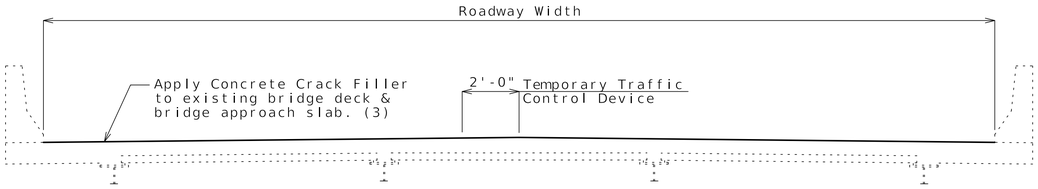
MoDOT

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

HORNER SHIFRIN

401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

...\02_Final\89_SN_03_D-31.dgn 2:07:43 PM 8/6/2024



SECTION THRU EXISTING DECK

Bridge deck on steel girders with safety barrier curbs shown.
Actual superstructure type and barrier type may vary.

Notes:

Outline of existing work is indicated by light dashed lines.
Heavy lines indicate new work.

Contractor shall verify all dimensions in field before ordering new material.

Traffic to be maintained on structure during construction.
See roadway plans for traffic control.

Bridge Number	County	Route Carried	Bridge Over	Bridge Deck Rating	Average Roadway Width ± (feet)	Length of Bridge Deck (feet) (1)	Bridge Skew (degrees)	Estimated Area of Bridge Approach Slab (sq. yard) (2)	Estimated Quantity of Concrete Crack Filler (sq. yard) (3)
Bid Quantities:									
A21372	Franklin	Route O	Meramec River	7	34'-0"	621'-8¾"	10°0'0"	196	2,545
A21382	Franklin	Route O	BNSF Railroad	5	34'-0"	141'-1⅛"	0°0'0"	192	725
A21872	Franklin	Route F	Meramec River	6	44'-1"	749'-6¾"	10°0'0"	0	3,672
A59501	Franklin	Route O	Winch Creek	7	39'-4½"	192'-5¾"	Varies	238	1,080
								Total	8,022

(1) End of slab to end of slab

(2) Conrete Crack Filler shall not be applied to bridge approach slabs if quantity is zero.

(3) Estimated area of bridge approach slabs to be coated with Concrete Crack Filler is included in this quantity. See special provisions.

STATE OF MISSOURI
TYLER R. LINDSAY
NUMBER PE-2019000128
PROFESSIONAL ENGINEER
07/11/2024 6:14:26 AM
TYLER R LINDSAY - CIVIL
MO-PE-2019000128

DATE PREPARED
7/11/2024

ROUTE	STATE
Var.	MO
DISTRICT	SHEET NO.
BR	1

COUNTY
FRANKLIN

JOB NO.
JSL0034

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
Various

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Detailed Nov. 2023
Checked Dec. 2023

Note: This drawing is not to scale. Follow dimensions.