DESIGN DESIGNATION

ROUTE AF

A.A.D.T. - 2027 = 688
A.A.D.T. - 2047 = 839
D.H.V. = 8%
T = 9% | V = 55 M.P.H. | D = 50% NB, 50% SB
FUNCTIONAL CLASSIFICATION - MINOR COLLECTOR

ROUTE D

A.A.D.T. - 2027 = 2151
A.A.D.T. - 2047 = 2625
D.H.V. = 8%
T = 8% | V = 40 M.P.H. | D = 36% EB, 64% WB
FUNCTIONAL CLASSIFICATION - MAJOR COLLECTOR

44 S. OUTER RD

A.A.D.T. - 2027 = 931
A.A.D.T. - 2047 = 1136
D.H.V. = 10%
T = 12% | V = 35 M.P.H. | D = 39% EB, 61% WB
FUNCTIONAL CLASSIFICATION - LOCAL

NO NEW RIGHT OF WAY
WILL BE AQUIRED

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

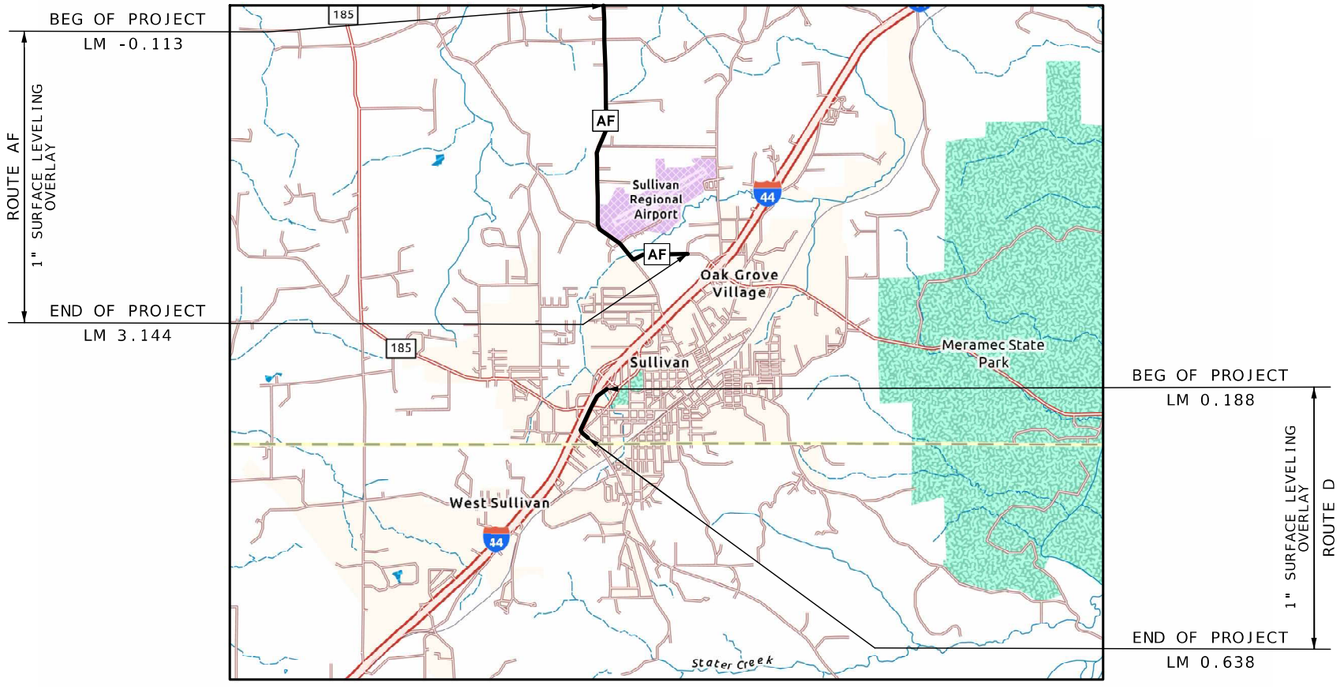
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

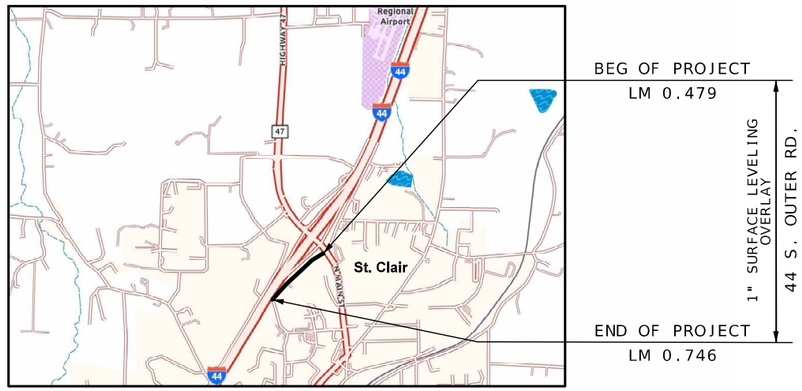
PLANS FOR PROPOSED STATE HIGHWAY

FRANKLIN COUNTY



KEY MAP
LOCATION OF FRANKLIN COUNTY





NOT TO SCALE

DISCLAIMER

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

THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (5 SHEETS)	2
QUANTITIES (QU) (3 SHEETS)	3
PLAN SHEETS (PS)	4-11
TRAFFIC CONTROL SHEETS (TC)	12-18

LENGTH OF PROJECT

ROUTE: AF

BEGINNING OF PROJECT	LM.	-0.113
END OF PROJECT	LM.	3.144
APPARENT LENGTH		17,197 FEET
EQUATIONS AND EXCEPTIONS: NONE		

ROUTE: D

BEGINNING OF PROJECT	LM.	0.188
END OF PROJECT	LM.	0.638
APPARENT LENGTH		2,376 FEET
EQUATIONS AND EXCEPTIONS: NONE		

ROUTE: 44 SOUTH OUTER ROAD

BEGINNING OF PROJECT	LM.	0.479
END OF PROJECT	LM.	0.746
APPARENT LENGTH		1,410 FEET
EQUATIONS AND EXCEPTIONS: NONE		

TOTAL CORRECTIONS	0	FEET
NET LENGTH OF PROJECT	20,983	FEET
STATE LENGTH	3.974	MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0	ACRES

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
10/20/2026 7:17:59 PM
AARON.JOHN.GROFF - CIVIL
MO-PE-2008019544

DATE PREPARED
10/20/2026

ROUTE	STATE
AF-D 44SOR	MO
DISTRICT	SHEET NO.
SL	1

COUNTY
FRANKLIN

JOB NO.
JST0189

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

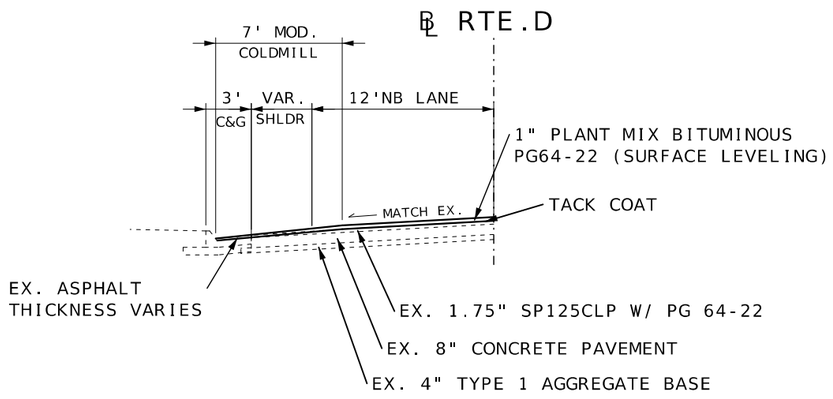
DESCRIPTION	DATE

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

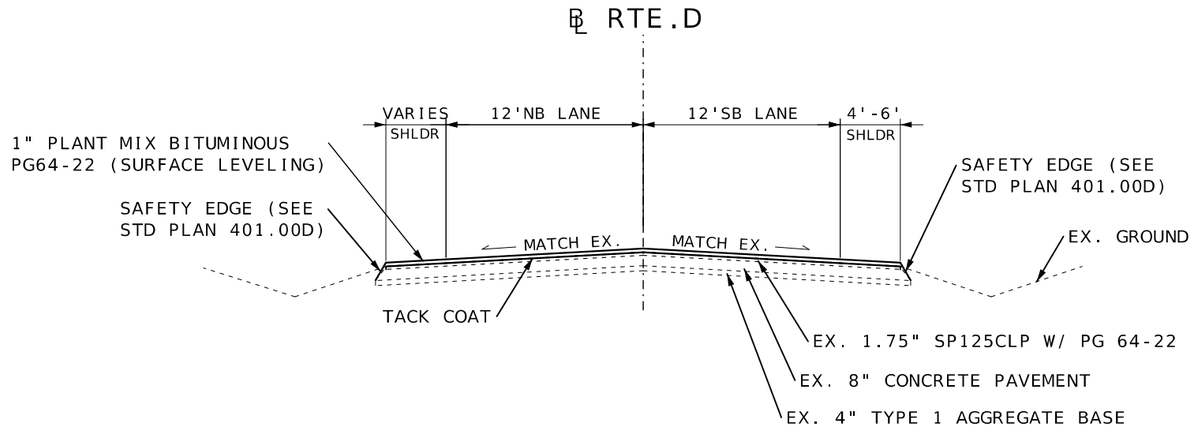
TITLE SHEET

APPLICATION RATES:

PMB SURFACE LEVELING: 1.94 TONS/CY
TACK COAT: 0.08 GAL/SY

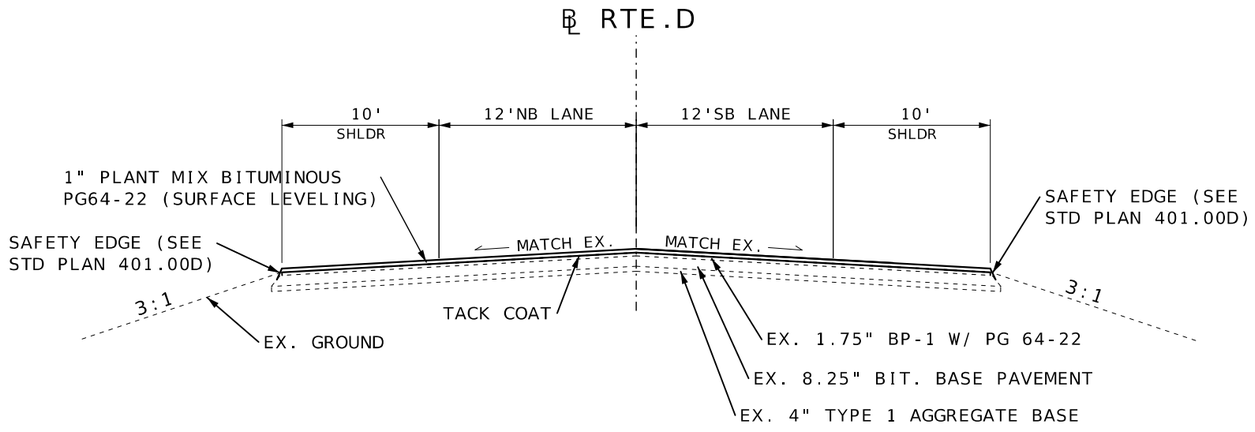


ROUTE D
CURB & GUTTER PAVEMENT
TRANSITION DETAIL



ROUTE D TYPICAL SECTION

LOG 0.188 TO LOG 0.578



ROUTE D TYPICAL SECTION

LOG 0.578 TO LOG 0.638

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

NOT TO SCALE

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
10/09/2026 7:17:13 AM
AARON JOHN GROFF - CIVIL
MO-PE-2008019544

DATE PREPARED
10/8/2026

ROUTE	STATE
AF-D 44SOR	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
FRANKLIN

JOB NO.
JST0189

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

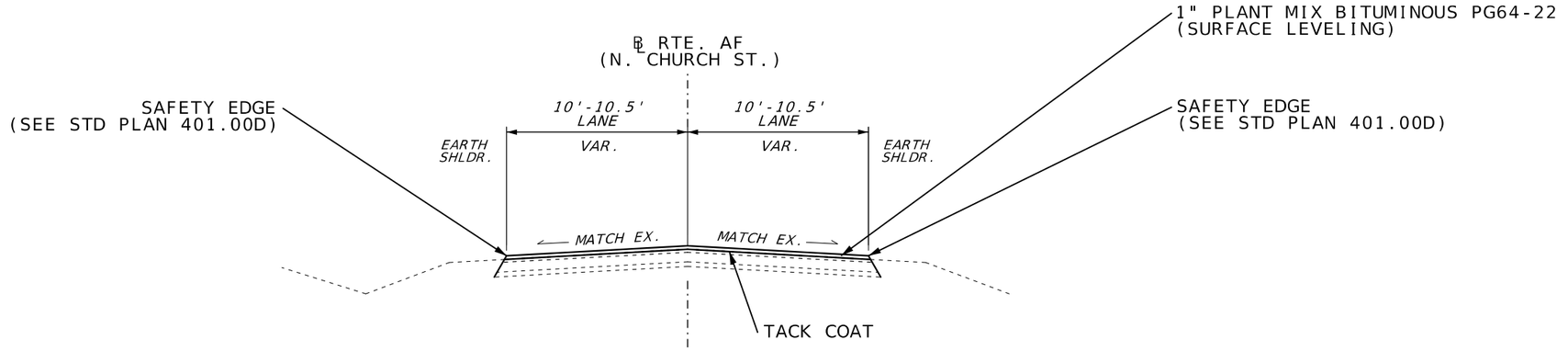
DATE

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

TYPICAL SECTION
RTE. D (I-44 OR)
SHEET 1 OF 5

APPLICATION RATES:

PMB SURFACE LEVELING: 1.94 TONS/CY
TACK COAT: 0.08 GAL/SY



RTE. AF (CHURCH ST.) - TYPICAL SECTION

LM -0.113 TO LM 2.676

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

NOT TO SCALE

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
10/20/2026 7:18:33 PM
AARON.JOHN.GROFF-CIVIL
MO-PE-2008019544

DATE PREPARED: 10/20/2026

ROUTE	STATE
AF-D 44SOR	MO
DISTRICT	SHEET NO.
SL	2

COUNTY: FRANKLIN
JOB NO.: JST0189
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

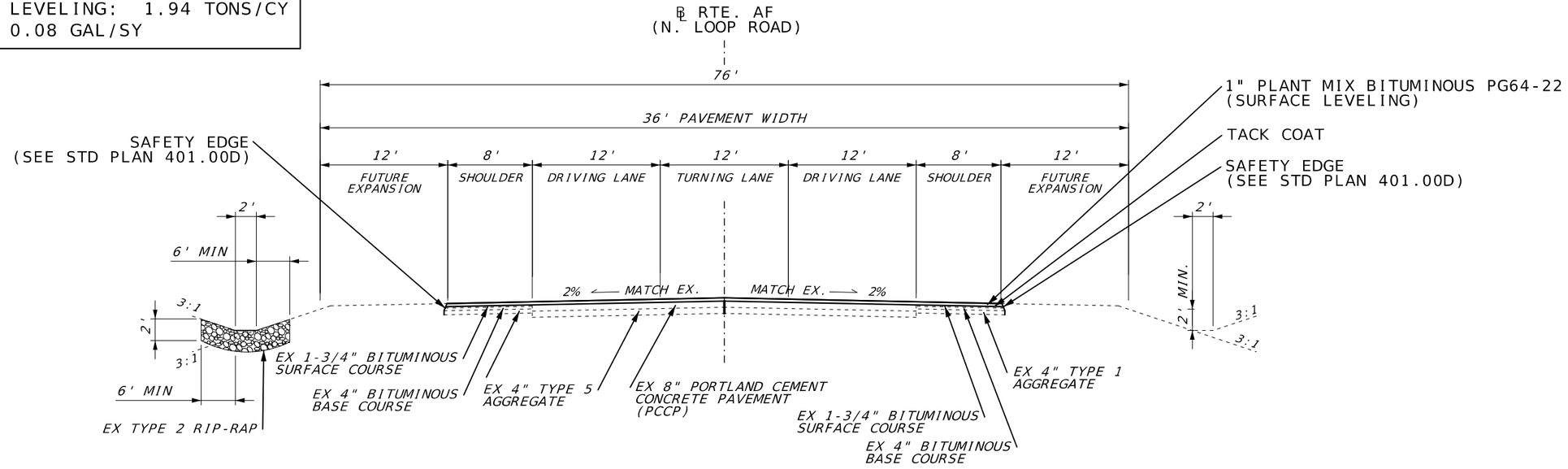
DESCRIPTION | DATE

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

TYPICAL SECTION
RTE. AF (CHURCH ST.)
SHEET 2 OF 5

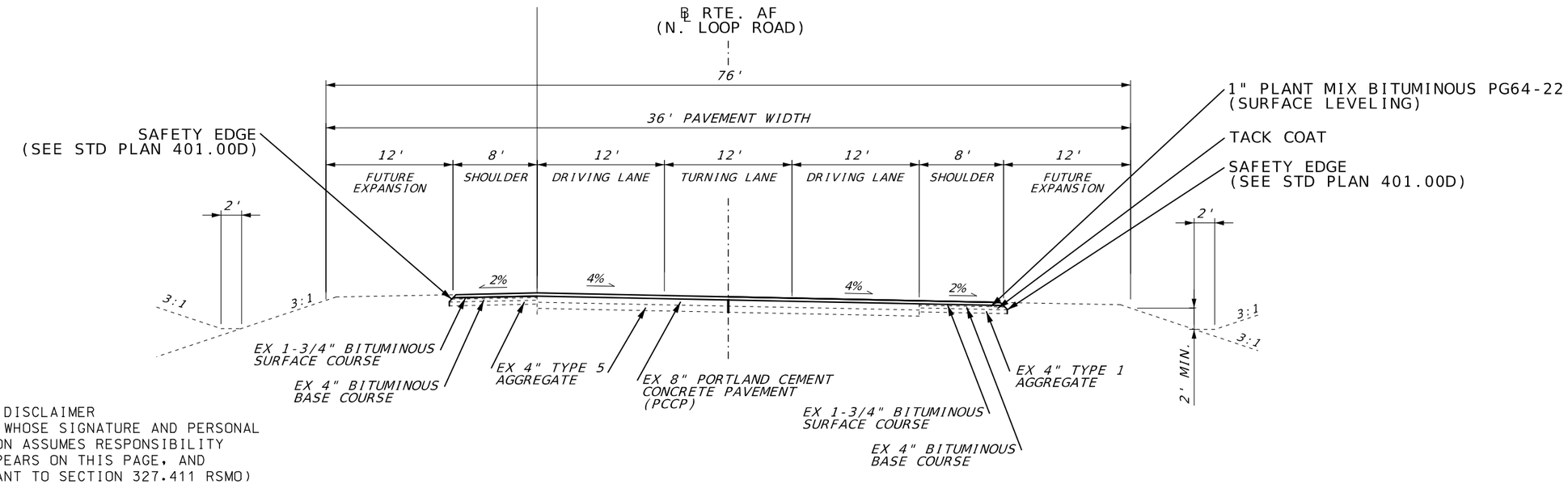
APPLICATION RATES:

PMB SURFACE LEVELING: 1.94 TONS/CY
TACK COAT: 0.08 GAL/SY



RTE. AF (LOOP RD.) - TYPICAL SECTION

LM 2.676 TO LM 2.719
LM 2.784 TO LM 3.144



RTE. AF (LOOP RD.) - SUPERELEVATED SECTION

LM 2.719 TO LM 2.784

NOT TO SCALE

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

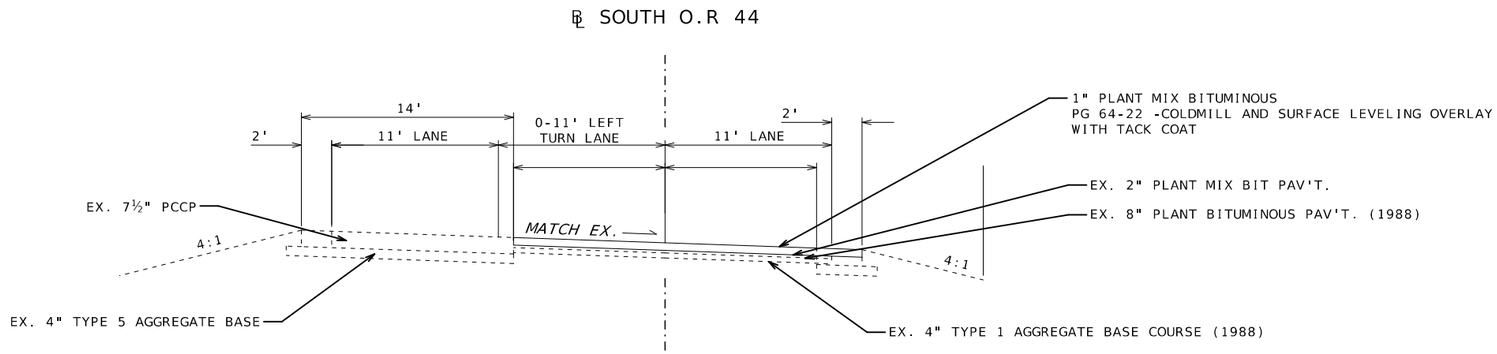
STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2009019544
PROFESSIONAL ENGINEER
10/09/2026 7:18:19 AM
AARON.JOHN.GROFF-CIVIL MO-PE-2009019544

DATE PREPARED: 10/8/2026
ROUTE: AF-D 44SOR
STATE: MO
DISTRICT: SL
SHEET NO.: 2
COUNTY: FRANKLIN
JOB NO.: JST0189
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

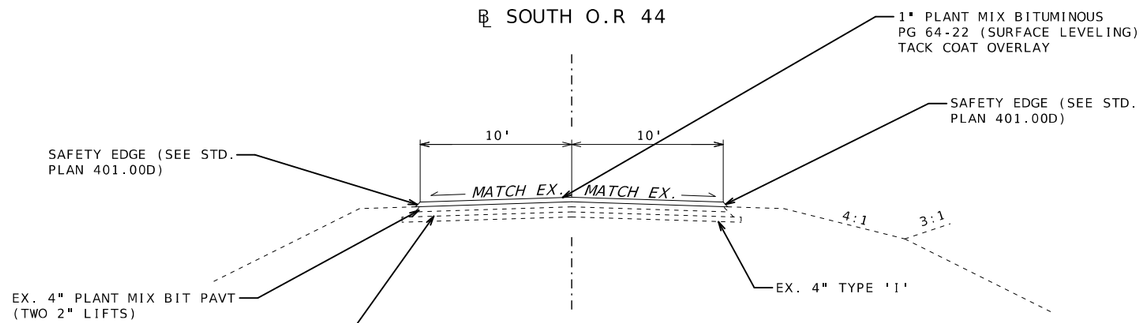
DESCRIPTION	DATE

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

TYPICAL SECTION
RTE. AF (LOOP RD.)
SHEET 3 OF 5



SOUTH O.R. 44 - TYPICAL SECTION
SUPERELVATED SECTION
(LOOKING EASTBOUND)
LM 0.479 TO 0.587 WB



SOUTH O.R. 44 - TYPICAL SECTION
(LOOKING EASTBOUND)
LM 0.587 TO 0.746 WB

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

NOT TO SCALE

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2009019544
PROFESSIONAL ENGINEER
10/09/2026 12:56:11 PM
AARON.JOHN.GROFF-CIVIL
MO-PE-2009019544

DATE PREPARED
10/9/2026

ROUTE	STATE
AF-D 44SOR	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
FRANKLIN

JOB NO.
JST0189

CONTRACT ID.

PROJECT NO.

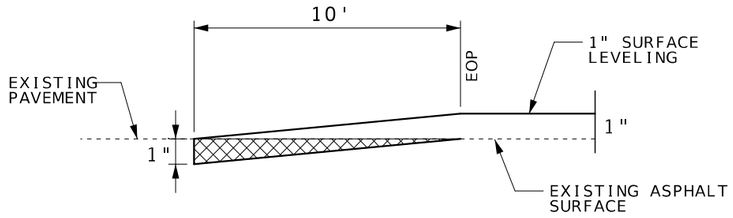
BRIDGE NO.

DESCRIPTION	DATE

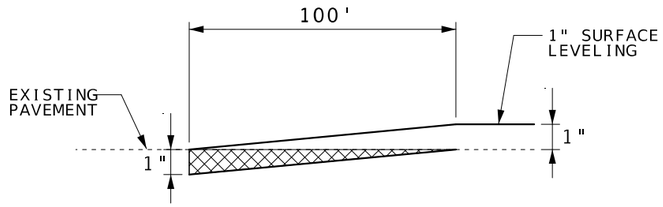
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

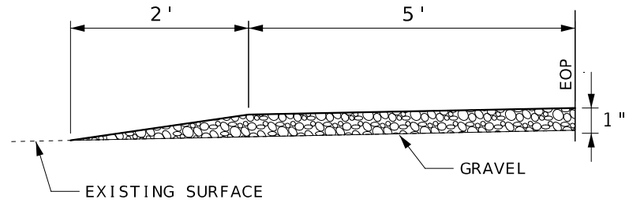
TYPICAL SECTION
TRANSITION DETAILS
SHEET 4 OF 5



TYPICAL ASPHALT SIDE ROAD/ENTRANCE
(COLDMILLED TRANSITION)

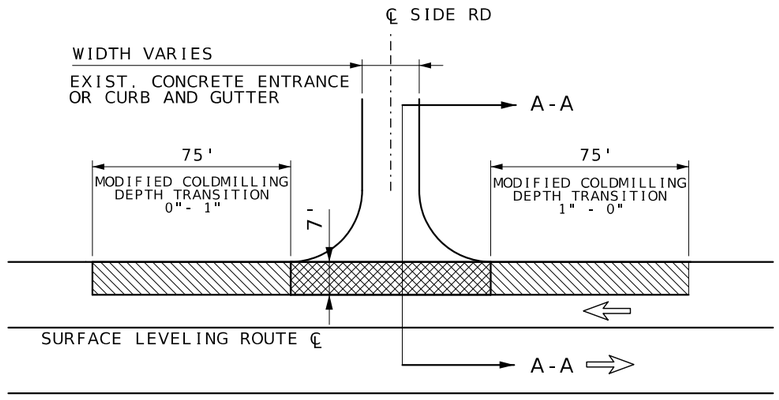


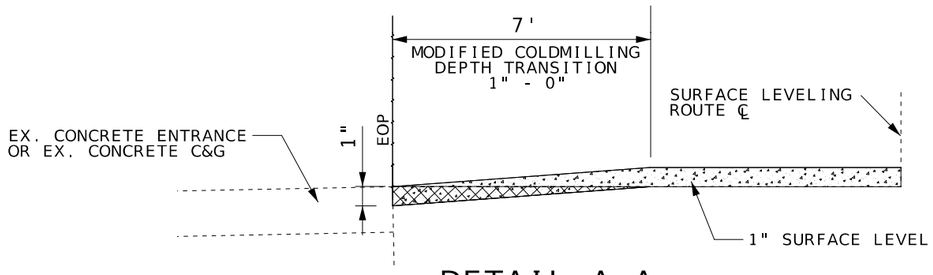
TRAVELWAY DEPTH TRANSITIONS
BEGINNING AND END OF PROJECT
NOT AT AN INTERSECTING ROUTE



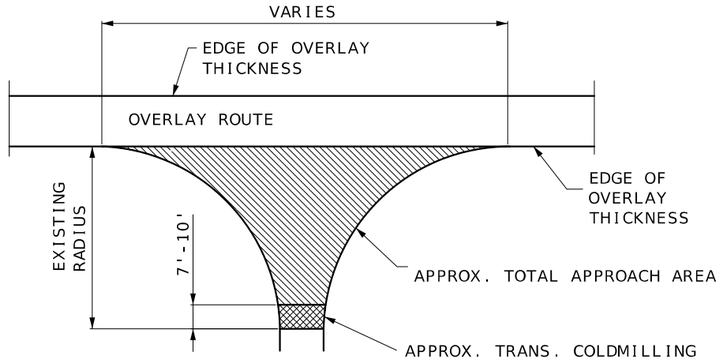
TYPICAL UNPAVED ENTRANCE
(FIELD, PRIVATE OR COUNTY ROAD)

TYPICAL CONCRETE ENTRANCE
OR CURB AND GUTTER
7' COLDMILLED TRANSITION

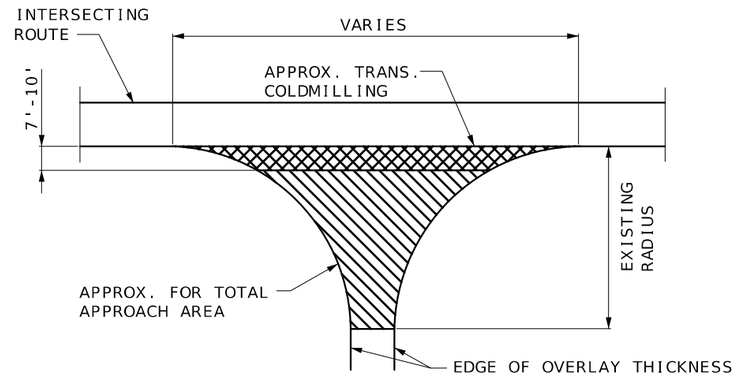




DETAIL A-A



TYPICAL STATE ROUTE JUNCTION



BEGINNING AND END OF PROJECT
AT INTERSECTING ROUTE

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

NOT TO SCALE

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
10/09/2026 7:24:16 AM
AARON.JOHN.GROFF-CIVIL
MO-PE-2008019544

DATE PREPARED
10/8/2026

ROUTE	STATE
AF-D 44SOR	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
FRANKLIN

JOB NO.
JST0189

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TYPICAL SECTION
TRANSITION DETAILS
SHEET 5 OF 5

COLDMILLING, ASPHALT RESURFACING, AND GRAVEL

ROUTE	LOG MILE	LOG MILE	LOCATION	ASPHALT AREAS S.F.	GRAVEL AREAS S.F.	DEPTH IN.	MODIFIED COLDMILLING FOR DEPTH TRANSITIONS S.Y.	COLDMILLING BIT. PAVEMENT FOR REMOVAL OF SURFACING (3 IN. OR LESS) S.Y.	BIT. PAVEMENT MIX PG-64-22 (SURFACE LEVELING) (1.94 TNS/CY) TONS	NON-TRACKING TACK * (0.08 GAL/SY) GAL	GRAVEL (A) OR CRUSHED STONE (B) (0.108 TNS/SY) TONS	REMARKS
SOR 44	0.479	0.591	BL	15048		1		1672	90.1	134		
SOR 44	0.591	0.610	BL	2234		1	248		13.4	20		PRIVATE ENTRANCE - GAS STATION AND CAR WASH
SOR 44	0.605	0.620	LT	730		1	81		4.4	6		PRIVATE ENTRANCE - SUBWAY AND PINEMARK INN
SOR 44	0.610	0.746	BL	14787		1			88.5	131		
SOR 44	0.631	0.643	LT	525		1	58		3.1	5		
SOR 44	0.643	0.674	LT	1146		1	127		6.8	10		PRIVATE ENTRANCE - PINEMARK INN
SOR 44	0.674	0.686	LT	525		1	58		3.1	5		
SOR 44	0.746	0.753	BL	1195		1	133		7.2	11		CONNECTION TO PLAZA ROAD
ROUTE D	0.188	0.391	BL MAINLINE & SHLDRS	37398.5		1	1048		223.9	332		BEGINNING OF PROJECT TO RTE. 185 OVERPASS
ROUTE D	0.188	0.207	LT	758.9		1	84		4.5	7		GAS STATION ENTRANCE, ASPHALT
ROUTE D	0.247	0.266	LT	1184.1		1	132		7.1	11		HOTEL ENTRANCE, ASPHALT
ROUTE D	0.391	0.578	BL MAINLINE & SHLDRS	38435.7		1	513		230.1	342		RTE. 185 OVERPASS TO BEFORE W SPRINGFIELD RD INTERSECTION
ROUTE D	0.399	0.416	LT	739.7		1	82		4.4	7		ELMONT ROAD ASPHALT ENTRANCE
ROUTE D	0.423	0.431	LT	319.6		1	36		1.9	3		PRIVATE ASPHALT ENTRANCE
ROUTE D	0.465	0.472	LT	276.5		1	31		1.7	2		PRIVATE ASPHALT ENTRANCE
ROUTE D	0.486	0.494	LT		179.6	1					2.2	PRIVATE GRAVEL ENTRANCE
ROUTE D	0.522	0.530	LT		239.6	1					2.9	PRIVATE GRAVEL ENTRANCE
ROUTE D	0.567	0.575	LT		201.0	1					2.4	PRIVATE GRAVEL ENTRANCE
ROUTE D	0.578	0.638	BL MAINLINE & SHLDRS	25050.1		1		2784	150.0	223		RTE. D AT W SPRINGFIELD RD/ S SERVICE ROAD INTERSECTION
ROUTE AF	-0.113	0.019	RT & LT	14874.5		1	266.7		89.1	132		PAVED MAINLINE - RTE. AF (FROM RIDGE RD PAST GRAESER RD)
ROUTE AF	0.019	2.589	RT & LT	321732.9		1			1926.4	2860		PAVED MAINLINE - RTE. AF (N. CHURCH ST.)
ROUTE AF	2.589	2.608	RT & LT	2400.0		1	266.7		14.4	21		PAVED MAINLINE - RTE. AF (N. CHURCH ST.)
ROUTE AF	2.608	2.699	RT & LT	17820.2		1		1980.0	106.7	158		PAVED MAINLINE - RTE. AF (N. CHURCH ST.)
ROUTE AF	2.699	2.718	RT & LT	5300.8		1	589		31.7	47		PAVED MAINLINE - RTE. AF (N. LOOP DR.)
ROUTE AF	2.718	3.144	RT & LT	114395.2		1	732.4		685.0	1017		PAVED MAINLINE - RTE. AF (N. LOOP DR.)
ALL ROUTES	VAR.	VAR.	VAR.				90	N/A	73.9	110	N/A	2% FOR SAFETY EDGE
ALL ROUTES	VAR.	VAR.	VAR.				224	N/A	184.7	274	N/A	5% FOR IRREGULARITIES
						SUBTOTAL 1 =	4799.8	6436	3952.1	5868	7.5	
						** RTE AF SUBTOTAL 2 =	1649.2	0	73.1	109	65.7	
						PAY TOTALS =	6449	6436	4025	5977	73	

* TACK RATES MAY NEED TO BE INCREASED FOR MILLED SURFACES TO ACHIEVE FULL SURFACE COVERAGE

** FOR FURTHER BREAKDOWN OF QUANTITIES FOR RTE. AF SEE QUANTITY SHEET 2 OF 3

PERMANENT PAVEMENT MARKINGS

ROADWAY	LOG MILE	LOG MILE	CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS)			PREFORMED THERMOPLASTIC PAVEMENT MARKING							REMOVALS		REMARKS
			4" SOLID WHITE (L.F.)	4" INTERMITTENT YELLOW (L.F.)	4" SOLID YELLOW (L.F.)	LEFT ARROW (EACH)	RIGHT ARROW (EACH)	STRAIGHT/ LEFT ARROW (EACH)	COMBINATION STR/ LT/ RT (EACH)	24" WHITE STOP BAR (L.F.)	24" YELLOW HATCHING (L.F.)	24"X 36" YIELD LINE TRIANGLE (EACH)	PAVEMENT MARKING (L.F.)	PAVEMENT SYMBOLS (EACH)	
SOR 44	0.479	0.612	1797		2372	2				24	57		4250	2	ALL MARKINGS IN SOR 44 PLAN SHEET 1
SOR 44	0.612	0.746	1435		1430								2865	0	ALL MARKINGS IN SOR 44 PLAN SHEET 2
ROUTE D	0.169	0.578	4227		4321										
ROUTE D	0.578	0.657	1469		1072		2	1	1	64		13			ROUTE D AT W SPRINGFIELD RD/ SSR INTERSECTION
ROUTE AF	0.004	3.144	32766	1691	31893	1	1			17					ROUTE AF (N. CHURCH ST. & N. LOOP DR.)
ROUTE AF	-0.113	0.004	1240		1240										ROUTE AF FROM RIDGE RD. TO GRAESER RD.
SUBTOTAL =			42934	1691	42328	3	3	1	1	105	57	13	7115	2	
PAY TOTAL=			42934	44019		6		2		105	57	13	7115	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) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR THE PROJECT TO WHICH THIS PAGE REFERS.

CONTRACTOR FURNISHED SURVEYING AND STAKING
1 LUMP SUM

MOBILIZATION
1 LUMP SUM

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
10/20/2026 7:19:22 PM
AARON.JOHN.GROFF - CIVIL
MO-PE-2008019544

DATE PREPARED: 10/20/2026

ROUTE	STATE
AF-D 44SOR	MO
DISTRICT	SHEET NO.
SL	3

COUNTY: FRANKLIN

JOB NO.: JST0189

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION | DATE

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

SUMMARY OF QUANTITIES
SHEET 1 OF 3

RTE. AF BREAKDOWN: MODIFIED COLDMILLING, ASPHALT RESURFACING, AND GRAVEL FOR SIDE ROADS AND ENTRANCES

ROUTE	LOG MILE	LOG MILE	LOCATION	ASPHALT AREAS S.F.	GRAVEL AREAS S.F.	DEPTH IN.	MODIFIED COLDMILLING FOR DEPTH TRANSITIONS S.Y.	COLDMILLING BIT. PAVEMENT FOR REMOVAL OF SURFACING (3 IN. OR LESS) S.Y.	BIT. PAVEMENT MIX PG-64-22 (SURFACE LEVELING) (1.94 TNS/CY) TONS	NON-TRACKING TACK * (0.08 GAL/SY) GAL	GRAVEL (A) OR CRUSHED STONE (B) (0.108 TNS/SY) TONS	REMARKS
ROUTE AF	-0.102	-0.097	LT		113.6	1					1.4	PRIVATE GRAVEL ENTRANCE
ROUTE AF	-0.065	-0.057	RT		280.6	1					3.4	PRIVATE GRAVEL ENTRANCE
ROUTE AF	0.000	0.008	RT	271.4		1	30.2		1.6	2		PAVED SIDE RD. - GRAESER RD.
ROUTE AF	0.047	0.055	RT		213.7	1					2.6	GRAVEL SIDE RD. - CARDINAL DR.
ROUTE AF	0.075	0.079	RT		108.4	1					1.3	PRIVATE GRAVEL ENTRANCE
ROUTE AF	0.235	0.240	LT	216.3		1	24.0		1.3	2		PRIVATE PAVED ENTRANCE
ROUTE AF	0.238	0.246	RT		268.0	1					3.2	PRIVATE GRAVEL ENTRANCE
ROUTE AF	0.493	0.499	LT	260.7		1	29.0		1.6	2		PAVED SIDE ROAD - SNELL LN.
ROUTE AF	0.583	0.588	RT		176.8	1					2.1	PRIVATE GRAVEL ENTRANCE
ROUTE AF	0.616	0.622	LT		139.1	1					1.7	PRIVATE GRAVEL ENTRANCE
ROUTE AF	0.664	0.671	RT		224.6	1					2.7	PRIVATE GRAVEL ENTRANCE
ROUTE AF	0.715	0.721	RT		175.9	1					2.1	PRIVATE GRAVEL ENTRANCE
ROUTE AF	0.733	0.739	RT		184.8	1					2.2	PRIVATE GRAVEL ENTRANCE
ROUTE AF	0.749	0.762	RT	527.9		1	58.7		3.2	5		PAVED SIDE ROAD - W. BACON RIDGE RD.
ROUTE AF	0.752	0.762	LT	380.3		1	42.3		2.3	3		PAVED SIDE ROAD - E. BACON RIDGE RD.
ROUTE AF	0.781	0.792	RT		412.5	1					5.0	PRIVATE GRAVEL ENTRANCE
ROUTE AF	0.807	0.813	RT		243.0	1					2.9	PRIVATE GRAVEL ENTRANCE
ROUTE AF	0.841	0.844	LT		103.2	1					1.2	PRIVATE GRAVEL ENTRANCE
ROUTE AF	0.881	0.888	RT		273.9	1					3.3	PRIVATE GRAVEL ENTRANCE
ROUTE AF	0.905	0.911	RT		219.6	1					2.6	PRIVATE GRAVEL ENTRANCE
ROUTE AF	0.909	0.912	LT		110.3	1					1.3	PRIVATE GRAVEL ENTRANCE
ROUTE AF	0.956	0.964	RT		210.7	1					2.5	PRIVATE GRAVEL ENTRANCE
ROUTE AF	0.964	0.977	LT		449.0	1					5.4	PRIVATE GRAVEL ENTRANCE
ROUTE AF	1.025	1.030	LT	227.8		1	25.3		1.4	2		PRIVATE PAVED ENTRANCE
ROUTE AF	1.112	1.123	RT		350.2	1					4.2	PRIVATE GRAVEL ENTRANCE
ROUTE AF	1.129	1.135	LT	273.0		1	30.3		1.6	2		PRIVATE PAVED ENTRANCE
ROUTE AF	1.144	1.152	LT	335.6		1	37.3		2.0	3		PRIVATE PAVED ENTRANCE
ROUTE AF	1.215	1.221	RT		201.3	1					2.4	PRIVATE GRAVEL SIDE ROAD
ROUTE AF	1.226	1.232	LT	323.6		1	36.0		1.9	3		PRIVATE PAVED ENTRANCE
ROUTE AF	1.263	1.270	LT	282.5		1	31.4		1.7	3		PAVED SIDE ROAD - BELL RD.
ROUTE AF	1.309	1.312	LT		113.1	1					1.4	PRIVATE GRAVEL ENTRANCE
ROUTE AF	1.343	1.350	LT		224.8	1					2.7	PRIVATE GRAVEL ENTRANCE
ROUTE AF	1.483	1.492	LT		254.5	1					3.1	PRIVATE GRAVEL ENTRANCE
ROUTE AF	1.520	1.530	RT	406.7		1	45.2		2.4	4		PAVED SIDE ROAD
ROUTE AF	1.627	1.635	LT	341.7		1	38.0		2.0	3		PAVED SIDE ROAD - E. WEST RD.
ROUTE AF	1.650	1.665	RT	582.3		1	64.7		3.5	5		PAVED SIDE ROAD
ROUTE AF	1.715	1.720	LT	229.0		1	25.4		1.4	2		PRIVATE PAVED ENTRANCE
ROUTE AF	1.735	1.740	LT	222.7		1	24.7		1.3	2		PRIVATE PAVED ENTRANCE
ROUTE AF	1.771	1.776	LT		150.0	1					1.8	PRIVATE GRAVEL ENTRANCE
ROUTE AF	1.773	1.790	RT	1020.7		1	113.4		6.1	9		PRIVATE PAVED ENTRANCE
ROUTE AF	1.815	1.819	LT		129.4	1					1.6	PRIVATE GRAVEL ENTRANCE
ROUTE AF	1.869	1.873	LT		134.5	1					1.6	PRIVATE GRAVEL ENTRANCE
ROUTE AF	1.892	1.897	RT	201.4		1	22.4		1.2	2		PRIVATE PAVED ENTRANCE
ROUTE AF	1.914	1.923	LT	326.6		1	36.3		2.0	3		PRIVATE PAVED ENTRANCE
ROUTE AF	1.919	1.925	RT	239.2		1	26.6		1.4	2		PRIVATE PAVED ENTRANCE
ROUTE AF	2.064	2.072	RT	365.4		1	40.6		2.2	3		PRIVATE PAVED ENTRANCE
ROUTE AF	2.091	2.099	RT	341.7		1	38.0		2.0	3		PRIVATE PAVED ENTRANCE
ROUTE AF	2.285	2.306	RT	1183.6		1	131.5		7.1	11		PAVED SIDE ROAD - SPRING BLUFF RD.
ROUTE AF	2.306	2.377	RT	2625.0		1	291.7					CONCRETE ENTRANCE- 7' MODIFIED COLDMILL TRANSITION
ROUTE AF	2.488	2.528	RT	1385.4		1	153.9		8.3	12		PAVED SIDE ROAD - INDUSTRIAL PARK DR. (W)
ROUTE AF	2.488	2.521	LT	1294.6		1	143.8		7.8	12		PAVED SIDE ROAD - AIRPORT RD. (E)
ROUTE AF	2.796	2.815	RT	976.1		1	108.5		5.8	9		PAVED SIDE ROAD (TO N. LOOP DR.)
					RTE AF SUBTOTAL 2 =		1649.2	0.0	73.1	109	65.7	
					PAY TOTALS =		*	*	*	*	*	

* FOR INFORMATION ONLY, SEE QUANTITY BOX 'COLDMILLING, ASPHALT RESURFACING, AND GRAVEL' FOR PAY TOTALS

DISCLAIMER

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

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER

10/20/2026 7:19:10 PM
AARON JOHN GROFF - CIVIL
MO-PE-2008019544

DATE PREPARED
10/20/2026

ROUTE	STATE
AF-D 44SOR	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
FRANKLIN

JOB NO.
JST0189

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SUMMARY OF QUANTITIES
SHEET 2 OF 3

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	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	6	96.00				BE PREPARED TO STOP
WO3-5	48X48	16.00						SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						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						UNEVEN LANES
WO8-12	48X48	16.00						NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	12	192.00				ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00						DETOUR AHEAD
WO20-3	48X48	16.00						ROAD CLOSED AHEAD
WO20-3a	48X48	16.00						ROAD CLOSED XX FT
WO20-4	48X48	16.00	6	96.00				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	6	96.00				RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00						FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00	2	32.00				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						WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	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	60.00				ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00	6	48.00				END ROAD WORK
GO20-4	36X18	4.50	3	13.50				PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75	6	52.50				PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	24X18	3.00	2	6.00				PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00						WORK ZONE (PLAQUE)
GO22-1	15X21	2.19	12	26.28				WET PAINT (45^ ARROW)
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						SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00						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						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00						POINT OF PRESENCE
CONST-8	48X36	12.00	6	72.00				WORK ZONE NO PHONE ZONE

616-10.05 CONSTRUCTION SIGNS	TOTAL 791
616-10.10 RELOCATED SIGNS	TOTAL

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

EFFECTIVE: 07-01-2025

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)
6122040		WORK ZONE CRASH CUSHION (NARROW)
6122041		WORK ZONE CRASH CUSHION (RELOCATION)
6123001	1 **	TRUCK MOUNTED ATTENUATOR (TMA)
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161020		CHANNELIZER (DRUM-LIKE)
6161022		CHANNELIZER (CONE)
6161025	220	CHANNELIZER (TRIM-LINE)
6161026		CHANNELIZER (VERTICAL PANEL)
6161030		TYPE 3 MOVEABLE BARRICADE
6161033		DIRECTION INDICATOR BARRICADE
6161040		FLASHING ARROW PANEL
6161047		TYPE 3 OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A	6 **	CHANGEABLE MESSAGE SIGN WITHOUT 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
6173700B		TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED
6173706		TEMP. TRAFFIC BARRIER STIFFNESS TRANSITION CONTRACTOR FURNISHED/RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION, CONTRACTOR FURNISHED/RETAINED
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6175011B		RELOCATING TEMP. TRAFFIC BARRIER ANCHORED
6175013		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS
6175020A		RELOCATING TEMP. TRAFFIC BARRIER HEIGHT
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

DISCLAIMER

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

NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING SIGNS OR DEVICES
TEMPORARY TRAFFIC CONTROL = 1 LUMP SUM
CMS LOCATION TO BE DETERMINED BY THE ENGINEER
* SIGN AND DEVICE LOCATION WILL BE FIELD VERIFIED AND APPROVED BY ENGINEER
** NOT INCLUDED IN TEMPORARY TRAFFIC CONTROL LUMP SUM BID

NOTE:
RTE. D CONSTRUCTION SIGN TOTAL IS 242 SF AND CMS QUANTITY IS 2
RTE. AF CONSTRUCTION SIGN TOTAL IS 242 SF AND CMS QUANTITY IS 2
I-44 SOR CONSTRUCTION SIGN TOTAL IS 213 SF AND CMS QUANTITY IS 2

MISC. LUMP SUM TEMPORARY TRAFFIC CONTROL = 1 LUMP SUM

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
10/09/2025 7:29:48 AM
AARON.JOHN.GROFF - CIVIL
MO-PE-2008019544

DATE PREPARED 10/8/2026

ROUTE	STATE
AF-D 44SOR	MO
DISTRICT	SHEET NO.
SL	3

COUNTY FRANKLIN

JOB NO. JST0189

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SUMMARY OF QUANTITIES
D-2BS
SHEET 3 OF 3

DISCLAIMER

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

SCALE

0 40 80 120

STRIPING LEGEND

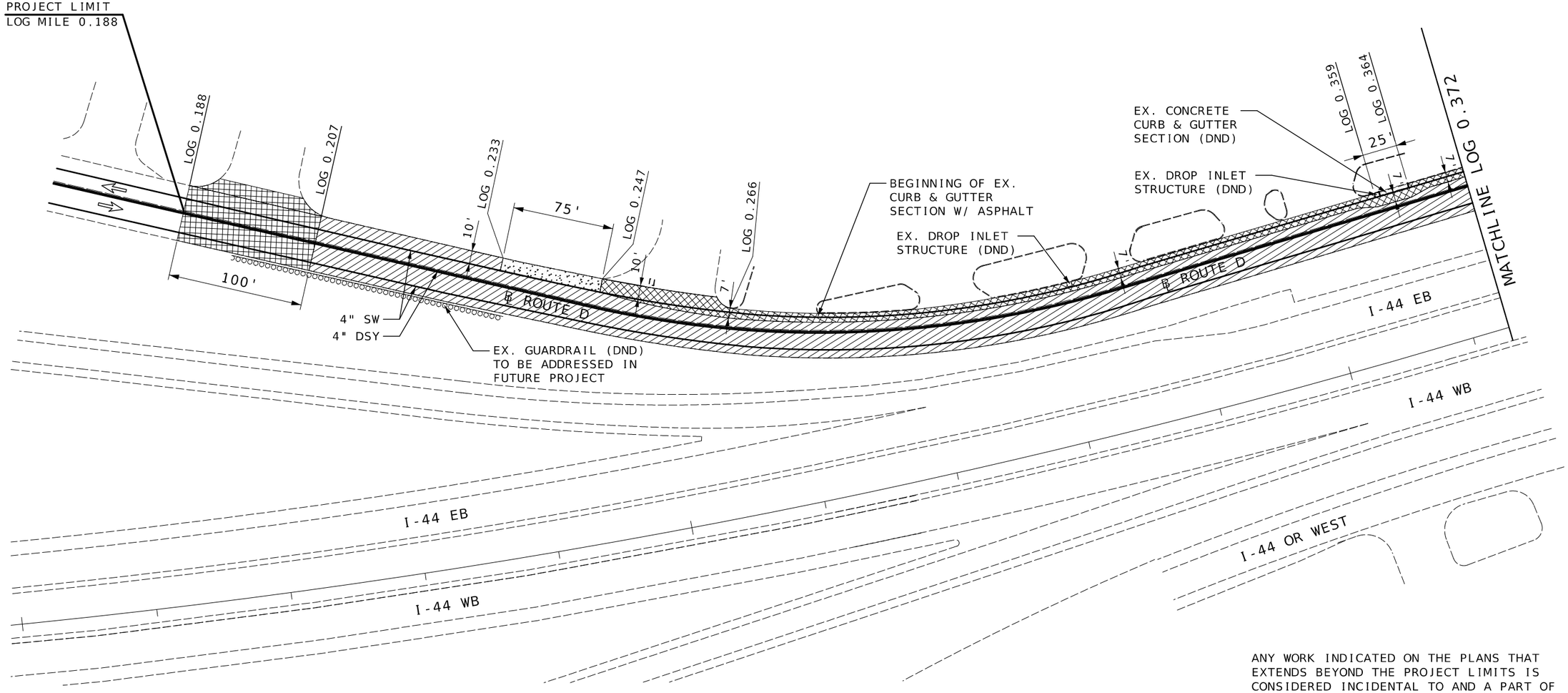
4" SW = 4" SOLID WHITE
4" DSY = 4" DOUBLE SOLID YELLOW

PAVEMENT LEGEND

1" PLANT MIX BITUMINOUS WITH PG64-22 (SURFACE LEVELING OVERLAY)

MODIFIED COLDMILLING DEPTH TRANSITION WITH 1" SURFACE LEVELING

MODIFIED COLDMILLING DEPTH TRANSITION FOR CONCRETE CURB AND GUTTER TIE-INS WITH 1" SURFACE LEVELING



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

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
10/09/2026 7:26:44 AM
AARON JOHN GROFF - CIVIL
MO-PE-2008019544

DATE PREPARED
10/8/2026

ROUTE	STATE
AF-D 44SOR	MO
DISTRICT	SHEET NO.
SL	4

COUNTY
FRANKLIN

JOB NO.
JST0189

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

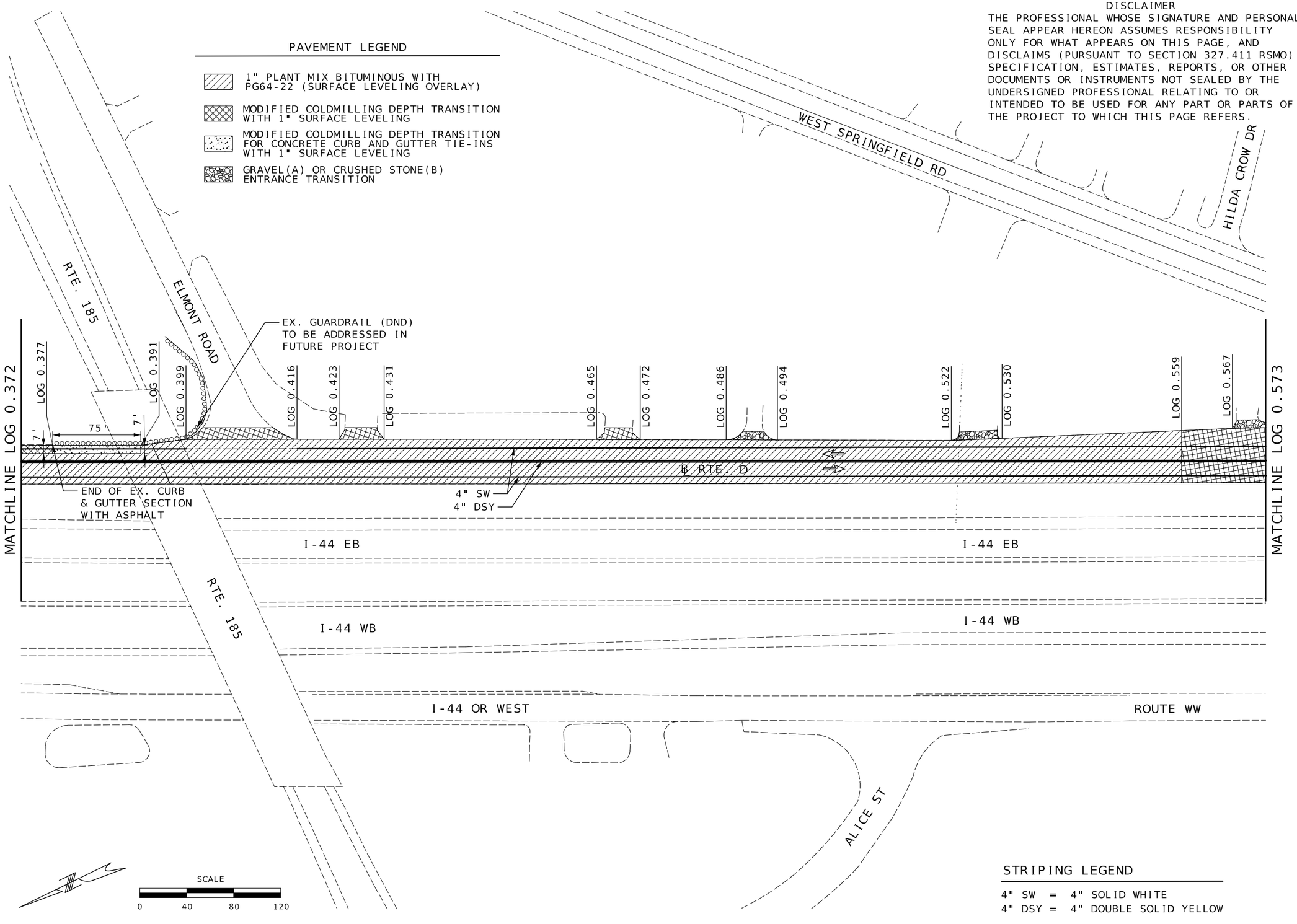
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PLAN SHEET
RTE. D
SHEET 1 OF 3

PAVEMENT LEGEND

- 1" PLANT MIX BITUMINOUS WITH PG64-22 (SURFACE LEVELING OVERLAY)
- MODIFIED COLDMILLING DEPTH TRANSITION WITH 1" SURFACE LEVELING
- MODIFIED COLDMILLING DEPTH TRANSITION FOR CONCRETE CURB AND GUTTER TIE-INS WITH 1" SURFACE LEVELING
- GRAVEL(A) OR CRUSHED STONE(B) ENTRANCE TRANSITION

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



STRIPING LEGEND

4" SW = 4" SOLID WHITE
4" DSY = 4" DOUBLE SOLID YELLOW

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
10/09/2026 7:27:34 AM
AARON JOHN GROFF - CIVIL
MO-PE-2008019544

DATE PREPARED
10/8/2026

ROUTE	STATE
AF-D 44SOR	MO
DISTRICT	SHEET NO.
SL	5

COUNTY
FRANKLIN

JOB NO.
JST0189

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

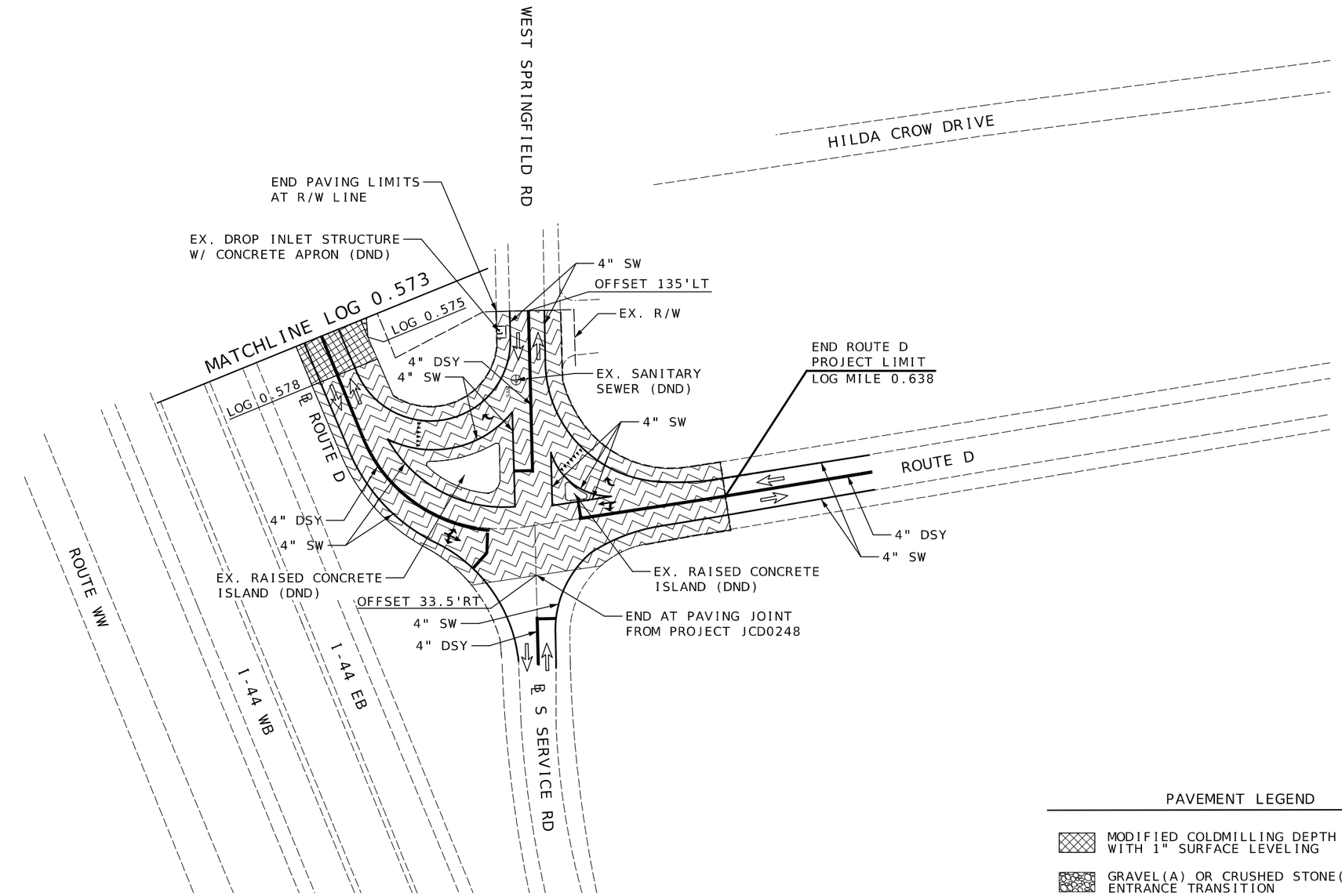
PLAN SHEET
RTE. D
SHEET 2 OF 3

DISCLAIMER

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

STRIPING LEGEND

4" SW = 4" SOLID WHITE
4" DSY = 4" DOUBLE SOLID YELLOW



SCALE
0 40 80 120

PAVEMENT LEGEND

- MODIFIED COLDMILLING DEPTH TRANSITION WITH 1" SURFACE LEVELING
- GRAVEL(A) OR CRUSHED STONE(B) ENTRANCE TRANSITION
- 1" COLDMILL AND 1" SURFACE LEVELING OVERLAY, MATCH EXISTING PAVEMENT ELEVATION

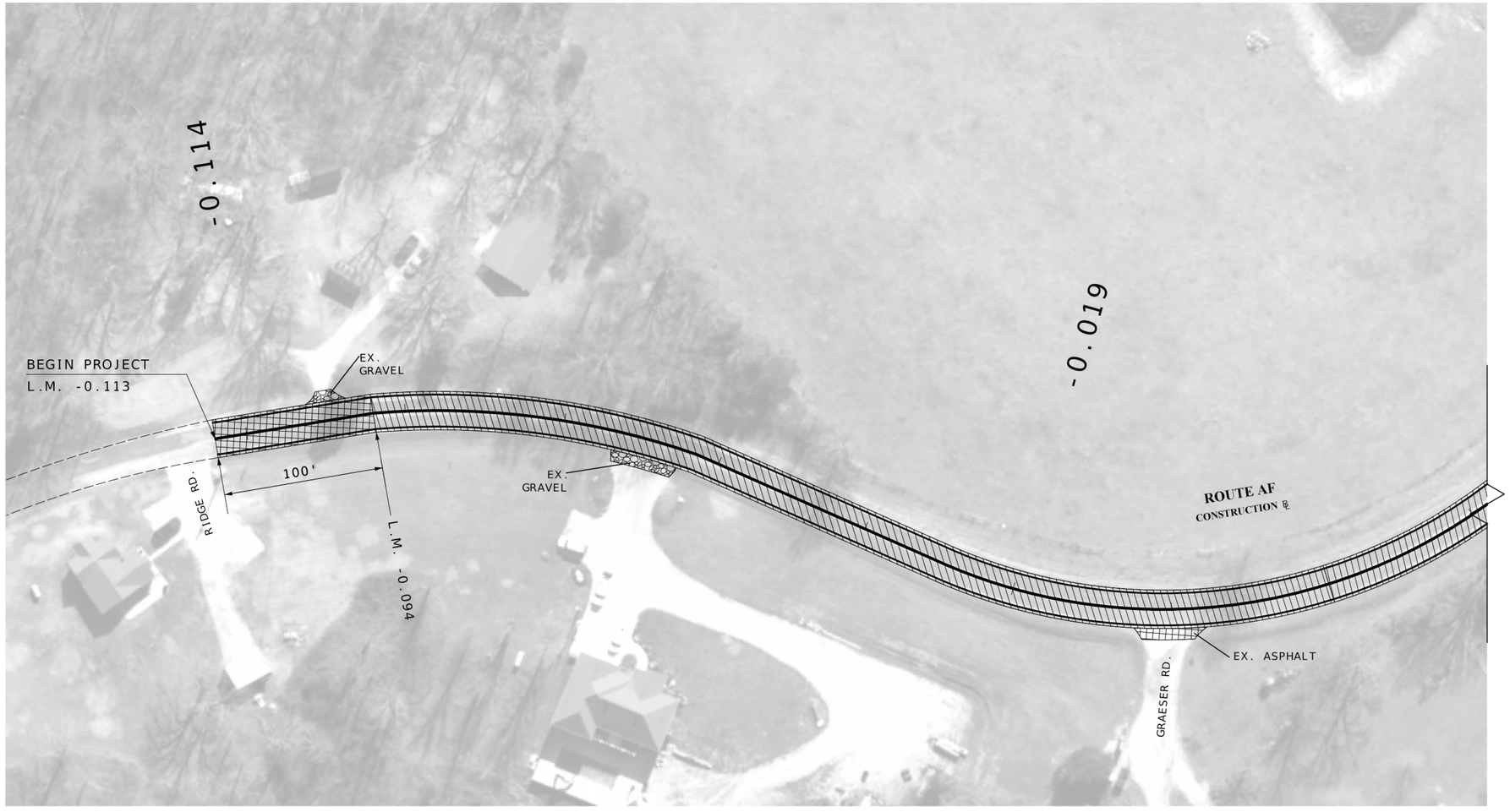
STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
10/09/2026 7:27:58 AM
AARON JOHN GROFF - CIVIL
MO-PE-2008019544

DATE PREPARED: 10/8/2026
ROUTE: AF-D 44SOR
STATE: MO
DISTRICT: SL
SHEET NO.: 6
COUNTY: FRANKLIN
JOB NO.: JST0189
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

PLAN SHEET
RTE. D
SHEET 3 OF 3



PAVEMENT LEGEND

- 1" PLANT MIX BITUMINOUS WITH PG64-22 (SURFACE LEVELING OVERLAY)
- MODIFIED COLDMILLING DEPTH TRANSITION WITH 1" SURFACE LEVELING
- MODIFIED COLDMILLING DEPTH TRANSITION FOR CONCRETE CURB AND GUTTER TIE-INS WITH 1" SURFACE LEVELING
- GRAVEL(A) OR CRUSHED STONE(B) ENTRANCE TRANSITION
- 1" COLDMILL AND 1" SURFACE LEVELING OVERLAY MATCH EXISTING PAVEMENT ELEVATION

SCALE

0 40 80 120

DISCLAIMER

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

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
10/20/2026 7:21:21 PM
AARON JOHN GROFF - CIVIL
MO-PE-2008019544

DATE PREPARED
10/20/2026

ROUTE	STATE
AF-D 44SOR	MO
DISTRICT	SHEET NO.
SL	7

COUNTY
FRANKLIN

JOB NO.
JST0189

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

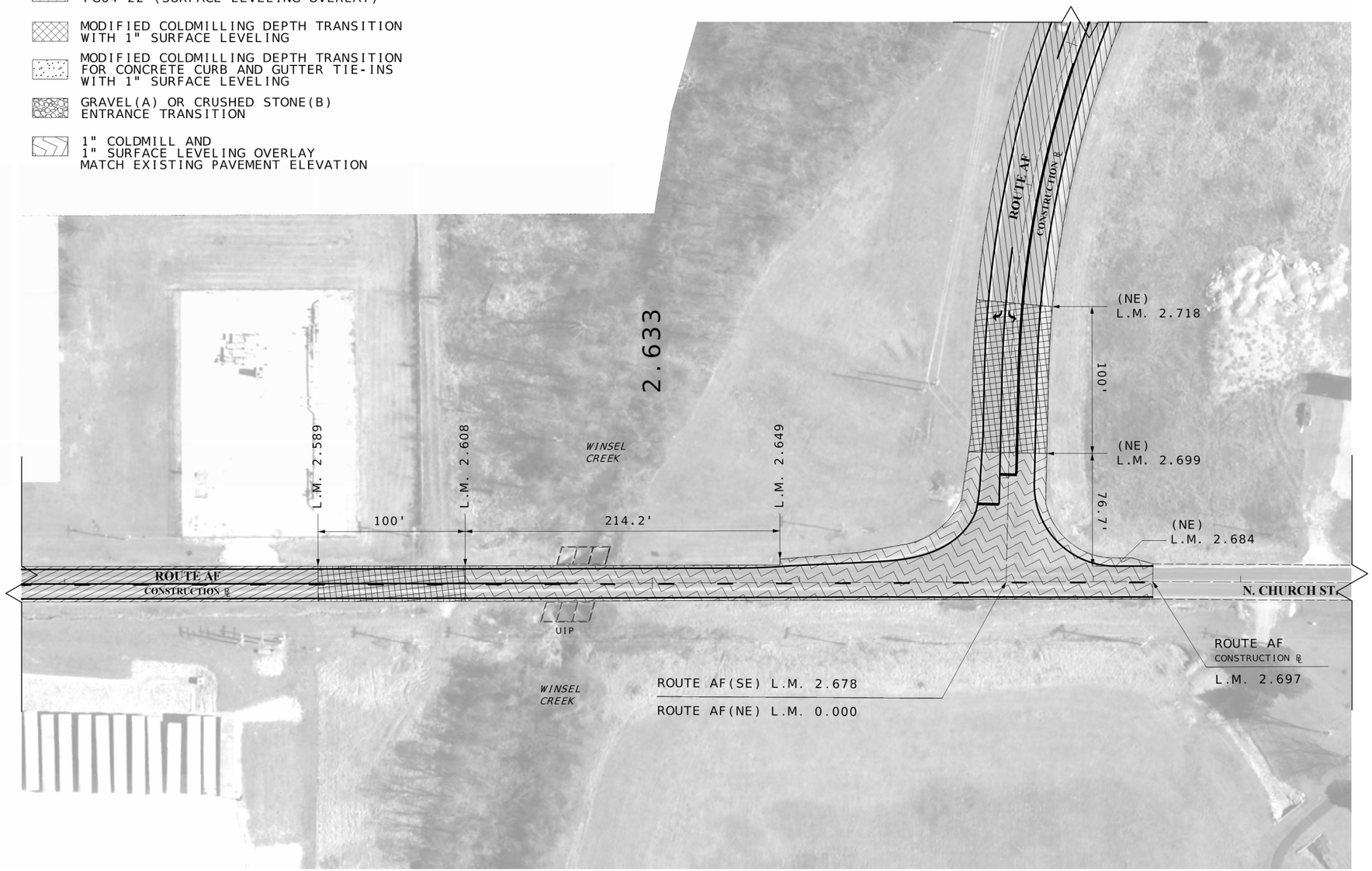
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PLAN SHEET
RTE. AF
SHEET 1 OF 3

PAVEMENT LEGEND

- 1" PLANT MIX BITUMINOUS WITH PG64-22 (SURFACE LEVELING OVERLAY)
- MODIFIED COLDMILLING DEPTH TRANSITION WITH 1" SURFACE LEVELING
- MODIFIED COLDMILLING DEPTH TRANSITION FOR CONCRETE CURB AND GUTTER TIE-INS WITH 1" SURFACE LEVELING
- GRAVEL(A) OR CRUSHED STONE(B) ENTRANCE TRANSITION
- 1" COLDMILL AND 1" SURFACE LEVELING OVERLAY MATCH EXISTING PAVEMENT ELEVATION

SCALE
0 40 80 120



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

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
10/09/2026 7:29:29 AM
AARON JOHN GROFF - CIVIL
MO-PE-2008019544

DATE PREPARED
10/8/2026

ROUTE	STATE
AF-D 44SOR	MO
DISTRICT	SHEET NO.
SL	8

COUNTY
FRANKLIN

JOB NO.
JST0189

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

PLAN SHEET
RTE. AF
SHEET 2 OF 3



DISCLAIMER

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

PAVEMENT LEGEND

- 1" PLANT MIX BITUMINOUS WITH PG64-22 (SURFACE LEVELING OVERLAY)
- MODIFIED COLDMILLING DEPTH TRANSITION WITH 1" SURFACE LEVELING
- MODIFIED COLDMILLING DEPTH TRANSITION FOR CONCRETE CURB AND GUTTER TIE-INS WITH 1" SURFACE LEVELING
- GRAVEL(A) OR CRUSHED STONE(B) ENTRANCE TRANSITION
- 1" COLDMILL AND 1" SURFACE LEVELING OVERLAY MATCH EXISTING PAVEMENT ELEVATION

SCALE

0 40 80 120

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER

10/09/2026 7:28:39 AM
AARON JOHN GROFF - CIVIL
MO-PE-2008019544

DATE PREPARED
10/8/2026

ROUTE	STATE
AF-D 44SOR	MO
DISTRICT	SHEET NO.
SL	9

COUNTY
FRANKLIN

JOB NO.
JST0189

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

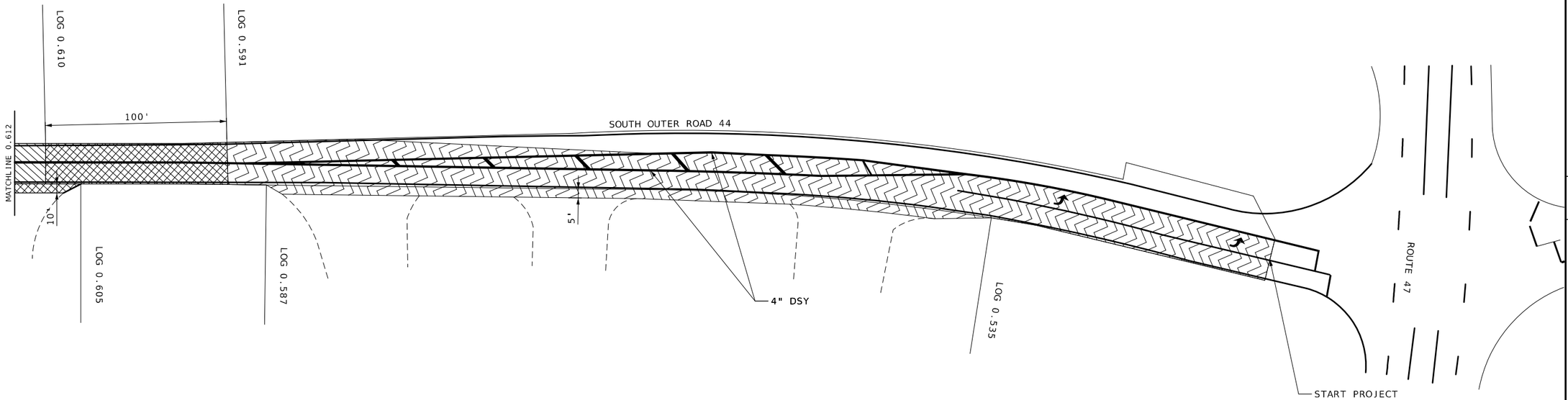
PLAN SHEET
RTE. AF
SHEET 3 OF 3

PAVEMENT LEGEND

- 1" PLANT MIX BITUMINOUS WITH PG64-22 (SURFACE LEVELING OVERLAY)
- MODIFIED COLDMILLING DEPTH TRANSITION WITH 1" SURFACE LEVELING
- 1" COLDMILL AND 1" SURFACE LEVELING OVERLAY MATCH EXISTING PAVEMENT ELEVATION

DISCLAIMER

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



SCALE

0 30 60 90

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
10/20/2026 7:21:38 PM
AARON JOHN GROFF - CIVIL
MO-PE-2008019544

DATE PREPARED
10/16/2026

ROUTE	STATE
AF-D 44SOR	MO
DISTRICT	SHEET NO.
SL	10

COUNTY
FRANKLIN

JOB NO.
JST0189

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEET
SOR 44
SHEET 1 OF 2

PAVEMENT LEGEND

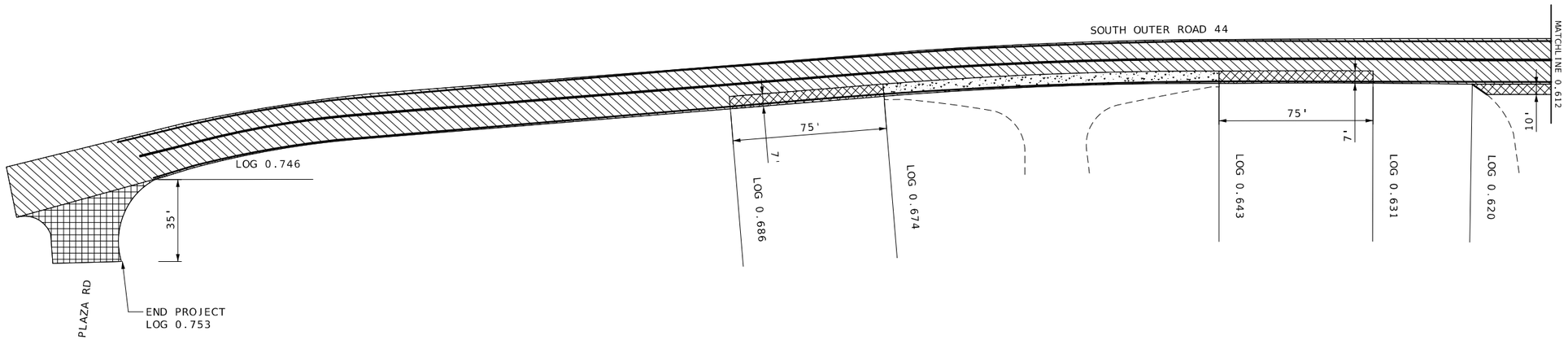
1" PLANT MIX BITUMINOUS WITH PG64-22 (SURFACE LEVELING OVERLAY)

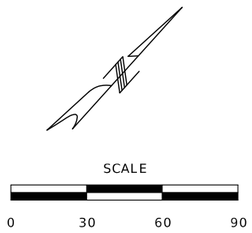
MODIFIED COLDMILLING DEPTH TRANSITION WITH 1" SURFACE LEVELING

MODIFIED COLDMILLING DEPTH TRANSITION FOR CONCRETE CURB AND GUTTER TIE-INS WITH 1" SURFACE LEVELING

DISCLAIMER

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





STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
10/20/2026 7:22:37 PM
AARON.JOHN.GROFF - CIVIL
MO-PE-2008019544

DATE PREPARED
10/16/2026

ROUTE	STATE
AF-D 44SOR	MO
DISTRICT	SHEET NO.
SL	11

COUNTY
FRANKLIN

JOB NO.
JST0189

CONTRACT ID.

PROJECT NO.

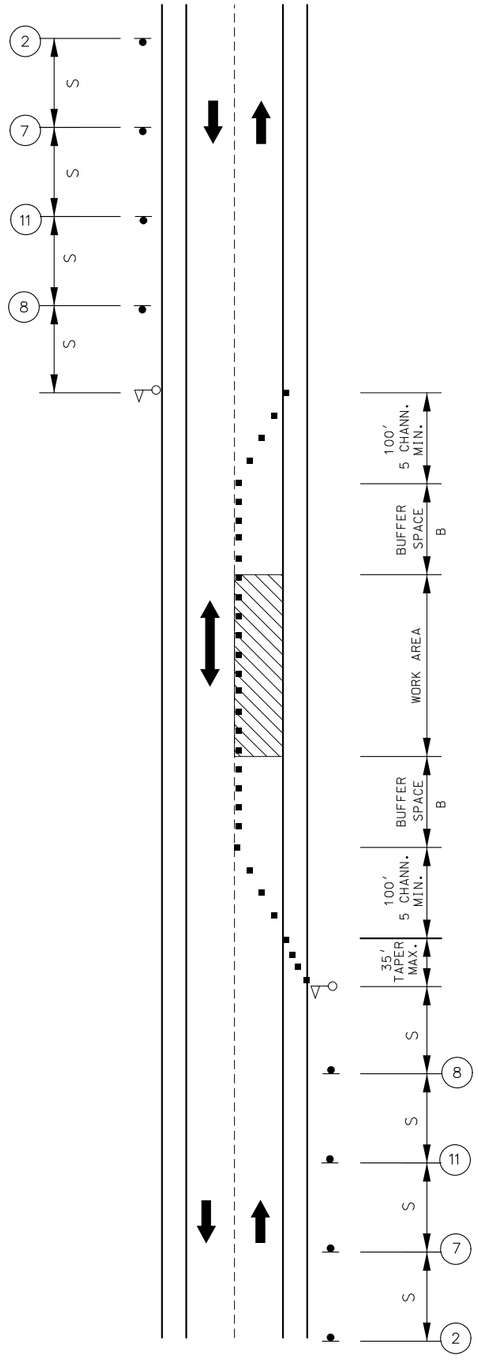
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEET
SOR 44
SHEET 2 OF 2



LANE CLOSURE ON
TWO-LANE ROAD
USING FLAGGERS

NOT TO SCALE



W020-1
(2)



W020-4
(7)



W020-7a
(8)



W03-4
(11)

TRAFFIC CONTROL LEGEND

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

DISCLAIMER

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

NOTES:

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

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

NO DIRECT PAY WILL BE MADE FOR THE RELOCATION OF CONSTRUCTION SIGNS OR DEVICES.

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

CMS LOCATIONS TO BE DETERMINED BY THE ENGINEER

	SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
ROADWAY NAME	PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
I-44 OR	35	200	–	–	–	280	–	40
RTE.D	40	350	–	–	–	400	–	80
RTE. AF	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.								

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2009019544
PROFESSIONAL ENGINEER
10/25/2026 8:07:29 AM
AARON.JOHN.GROFF - CIVIL
MO-PE-2009019544

DATE PREPARED
10/23/2026

ROUTE	STATE
AF-D 44SOR	MO
DISTRICT	SHEET NO.
SL	12

COUNTY
FRANKLIN

JOB NO.
JST0189

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL SHEET
LANE CLOSURE ON
TWO-LANE ROAD USING FLAGGER

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



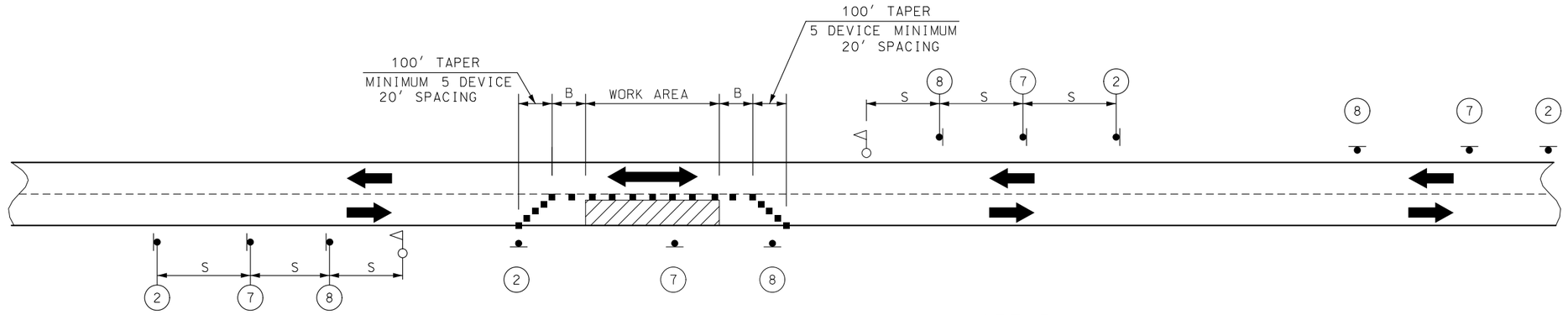
W020-1
(2)



W020-4
(7)



W020-7a
(8)



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

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.

NO DIRECT PAY WILL BE MADE FOR THE RELOCATION OF CONSTRUCTION SIGNS OR DEVICES.

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

CMS LOCATIONS TO BE DETERMINED BY THE ENGINEER

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

TRAFFIC CONTROL LEGEND

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

ROADWAY NAME	SPEED: PERM. POSTED (MPH)	SIGN SPACING (ft.): UN-DIVIDED (S)	SIGN SPACING (ft.): DIVIDED (S)	TAPER LENGTH (ft.): SHOULDER (1) (T1)	TAPER LENGTH (ft.): LANE (2) (T2)	OPTIONAL: BUFFER LENGTH (ft) (B)	CHANNELIZER SPACING (ft.): TAPERS	CHANNELIZER SPACING (ft.): BUFFER/ WORK AREAS
I-44 OR	35	200	–	–	–	280	–	40
RTE. D	40	350	–	–	–	400	–	80
RTE. AF	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.

NOT TO SCALE

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
10/25/2026 8:08:10 AM
AARON.JOHN.GROFF-CIVIL
MO-PE-2008019544

DATE PREPARED
10/23/2026

ROUTE	STATE
AF-D 44SOR	MO
DISTRICT	SHEET NO.
SL	13

COUNTY
FRANKLIN

JOB NO.
JST0189

CONTRACT ID.

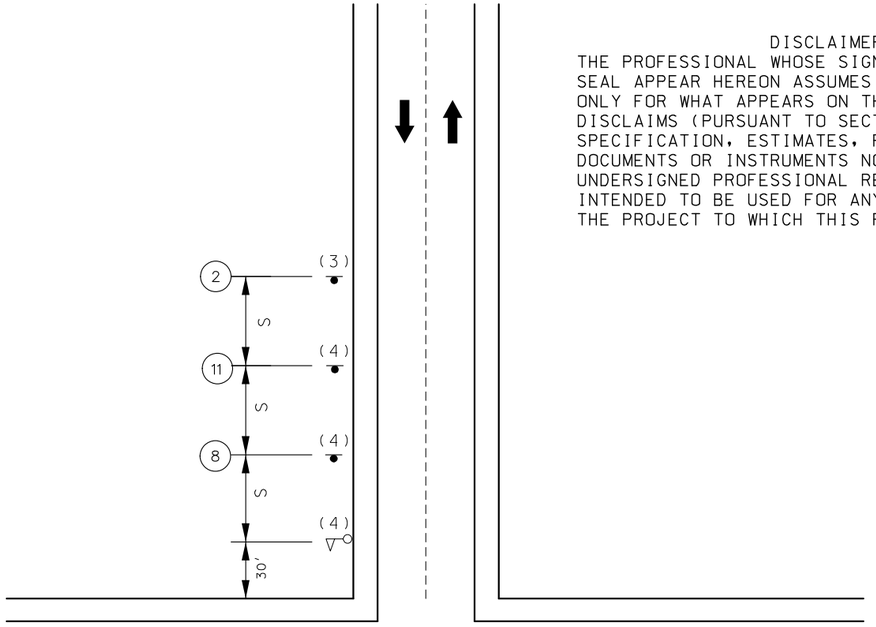
PROJECT NO.

BRIDGE NO.

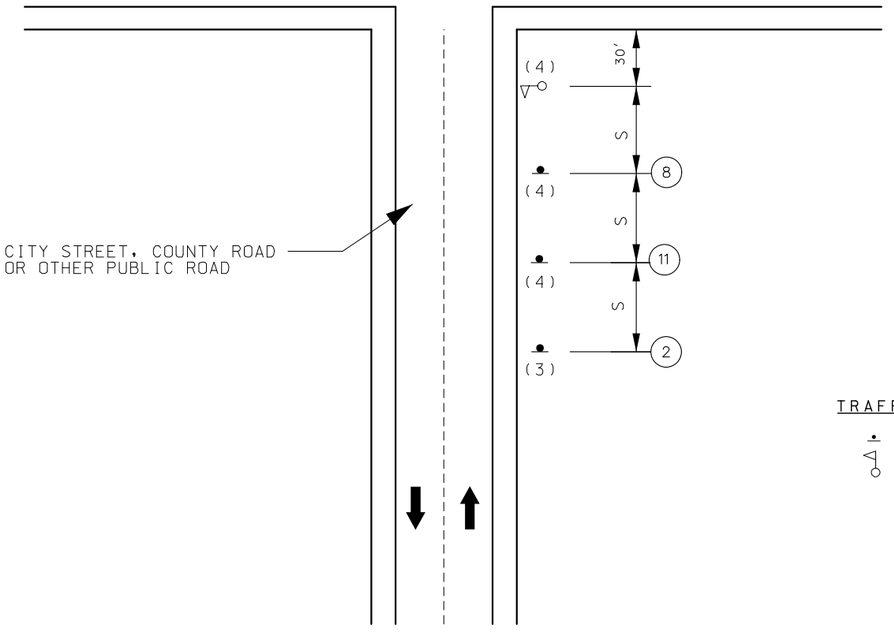
DESCRIPTION	DATE

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

TRAFFIC CONTROL SHEET
FLAGGER CONTROL
MOVING OPERATION



ROAD UNDER CONSTRUCTION
(WITH OR WITHOUT TRAFFIC)



PUBLIC ROAD CROSSING ANOTHER
ROAD UNDER CONSTRUCTION

NOT TO SCALE

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



W020-1
(2)



W020-7a
(8)



W03-4
(11)

NOTES:

ADDITIONAL SIGNING MAY BE REQUIRED BASED ON WORK ZONE ACTIVITIES.

(3) ROAD WORK AHEAD SIGN REQUIRED FOR ALL PUBLIC ROAD APPROACHED TO THE WORK ZONE. IF NO FLAGGERS ARE REQUIRED, THEN THE ROAD WORK AHEAD SIGNS ARE LOCATED "S" FEET FROM THE INTERSECTION.

(4) FLAGGER AND SIGNING ONLY REQUIRED WHERE EQUIPMENT IS CROSSING THE ROAD OR OTHER CONDITIONS REQUIRING FLAGGER CONTROL EXIST.

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

NO DIRECT PAY WILL BE MADE FOR THE RELOCATION OF CONSTRUCTION SIGNS OR DEVICES.

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

CMS LOCATIONS TO BE DETERMINED BY THE ENGINEER

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- FLAGGER

ROADWAY NAME	SPEED PERM. POSTED (MPH)	SIGN SPACING (ft.) UN-DIVIDED (S)	SIGN SPACING (ft.) DIVIDED (S)	TAPER LENGTH (ft.) SHOULDER (1) (T1)	TAPER LENGTH (ft.) LANE (2) (T2)	OPTIONAL BUFFER LENGTH (ft) (B)	CHANNELIZER SPACING (ft.) TAPERS	CHANNELIZER SPACING (ft.) BUFFER/ WORK AREAS
I-44 OR	35	200	–	70	245	280	35	40
RTE.D	40	350	–	150	540	400	40	80
RTE. AF	55	500	–	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.

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
10/25/2026 8:08:32 AM
AARON.JOHN.GROFF-CIVIL
MO-PE-2008019544

DATE PREPARED
10/23/2026

ROUTE	STATE
AF-D 44SOR	MO
DISTRICT	SHEET NO.
SL	14

COUNTY
FRANKLIN

JOB NO.
JST0189

CONTRACT ID.

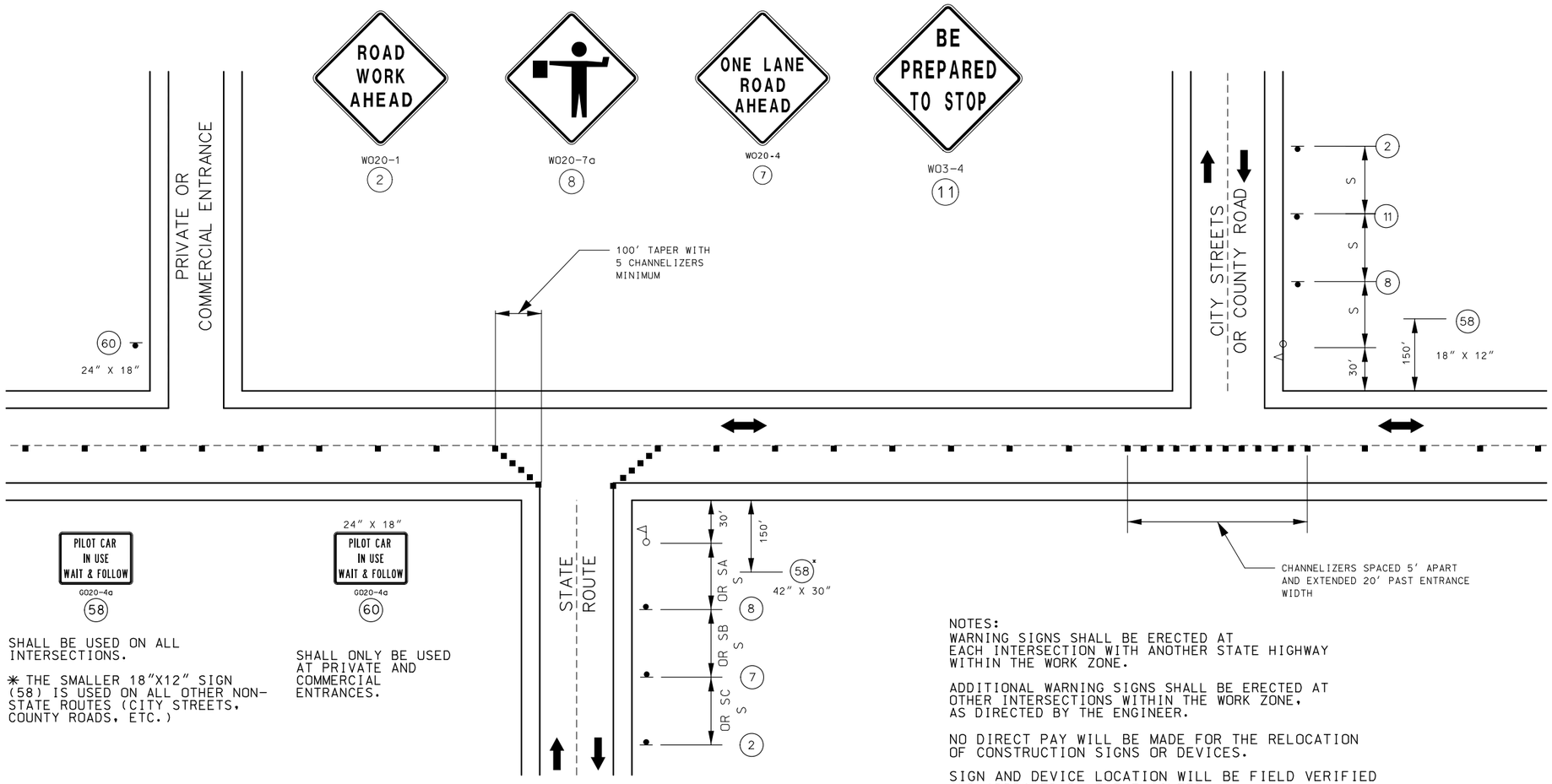
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

TRAFFIC CONTROL SHEET
PUBLIC ROAD CROSSING ANOTHER
ROAD UNDER CONSTRUCTION



SHALL BE USED ON ALL INTERSECTIONS.

* THE SMALLER 18"X12" SIGN (58) IS USED ON ALL OTHER NON-STATE ROUTES (CITY STREETS, COUNTY ROADS, ETC.)

SHALL ONLY BE USED AT PRIVATE AND COMMERCIAL ENTRANCES.

NOTES:
WARNING SIGNS SHALL BE ERECTED AT EACH INTERSECTION WITH ANOTHER STATE HIGHWAY WITHIN THE WORK ZONE.

ADDITIONAL WARNING SIGNS SHALL BE ERECTED AT OTHER INTERSECTIONS WITHIN THE WORK ZONE, AS DIRECTED BY THE ENGINEER.

NO DIRECT PAY WILL BE MADE FOR THE RELOCATION OF CONSTRUCTION SIGNS OR DEVICES.

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

CMS LOCATIONS TO BE DETERMINED BY THE ENGINEER

SIDE ROADS ENTERING WORK ZONES
(PAVEMENT TREATMENT FOR TWO-LANE ROADWAYS)

ROADWAY NAME	SPEED PERM. POSTED (MPH)	SIGN SPACING (FT) (1) NON-DIVIDED (S)	SIGN SPACING (FT) (1) DIVIDED (S)	CHANNELIZER SPACING (FT) BUFFER/ WORK AREA (TYP.)
I-44 OR	35	200	–	40
RTE.D	40	350	–	80
RTE. AF	55	500	–	80
		1000	–	120

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

SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

TRAFFIC CONTROL LEGEND

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

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

NOT TO SCALE

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
10/25/2026 8:08:39 AM
AARON.JOHN.GROFF - CIVIL
MO-PE-2008019544

DATE PREPARED
10/23/2026

ROUTE	STATE
AF-D 44SOR	MO
DISTRICT	SHEET NO.
SL	15

COUNTY
FRANKLIN

JOB NO.
JST0189

CONTRACT ID.

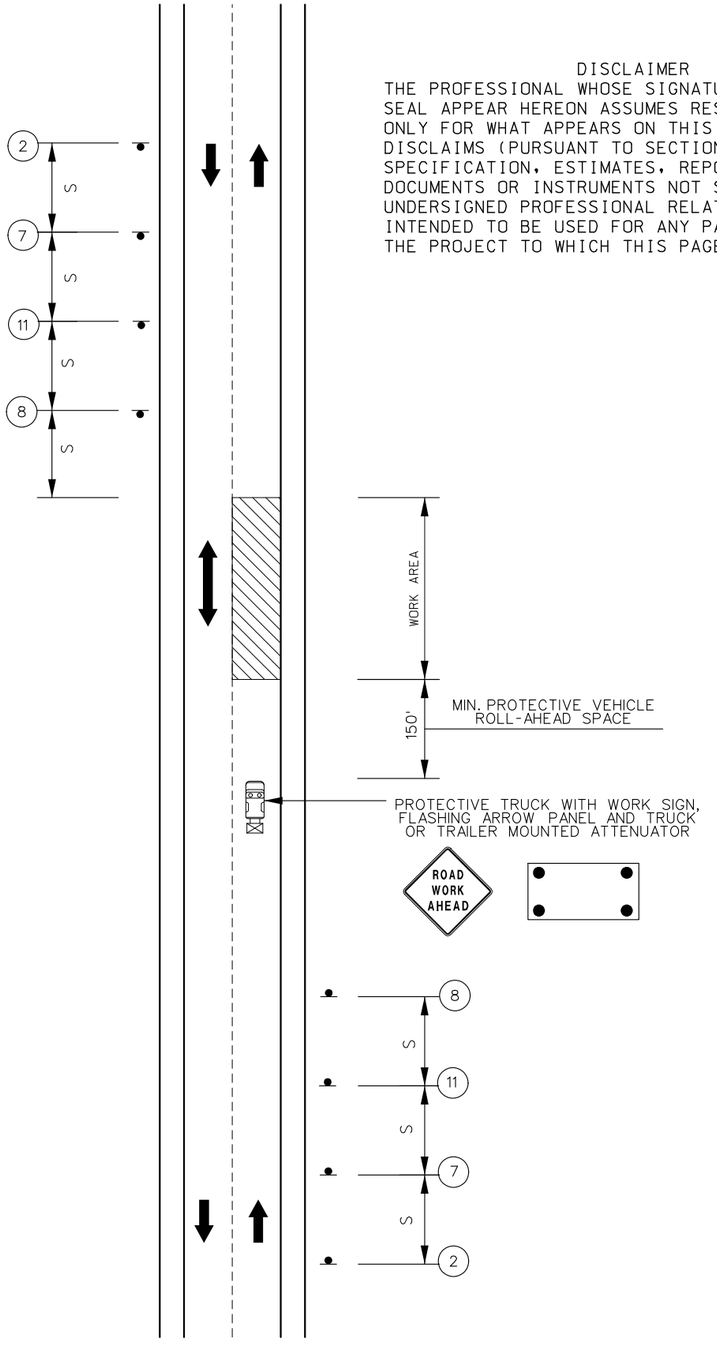
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

TRAFFIC CONTROL SHEET
SIDE ROADS ENTERING WORKZONES



MOBILE OPERATION
ON TWO-LANE HIGHWAYS

NOT TO SCALE

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



W020-1
(2)



W020-4
(7)



W020-7a
(8)



W03-4
(11)

TRAFFIC CONTROL LEGEND

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

NOTES:

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 MUTCD TYPICAL APPLICATION 10 LANE CLOSURE ON TWO-LANE HIGHWAYS USING FLAGGERS (TA-10) 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.

NO DIRECT PAY WILL BE MADE FOR THE RELOCATION OF CONSTRUCTIOI SIGNS OR DEVICES.

SIGN AND DEVICE LOCATION WILL BE FIELD VERIFIED AND APPROVED THE ENGINEER.

CMS LOCATIONS TO BE DETERMINED BY THE ENGINEER

	SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
ROADWAY NAME	PERM. POSTED (MPH)	UN -DIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (ft) (B)	TAPERS	BUFFER/ WORK AREAS
I-44 OR	35	200	–	–	–	–	–	–
RTE.D	40	350	–	–	–	–	–	–
RTE. AF	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.

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2009019544
PROFESSIONAL ENGINEER
10/25/2026 8:09:14 AM
AARON JOHN GROFF-CIVIL
MO-PE-2009019544

DATE PREPARED
10/23/2026

ROUTE	STATE
AF-D 44SOR	MO
DISTRICT	SHEET NO.
SL	16

COUNTY
FRANKLIN

JOB NO.
JST0189

CONTRACT ID.

PROJECT NO.

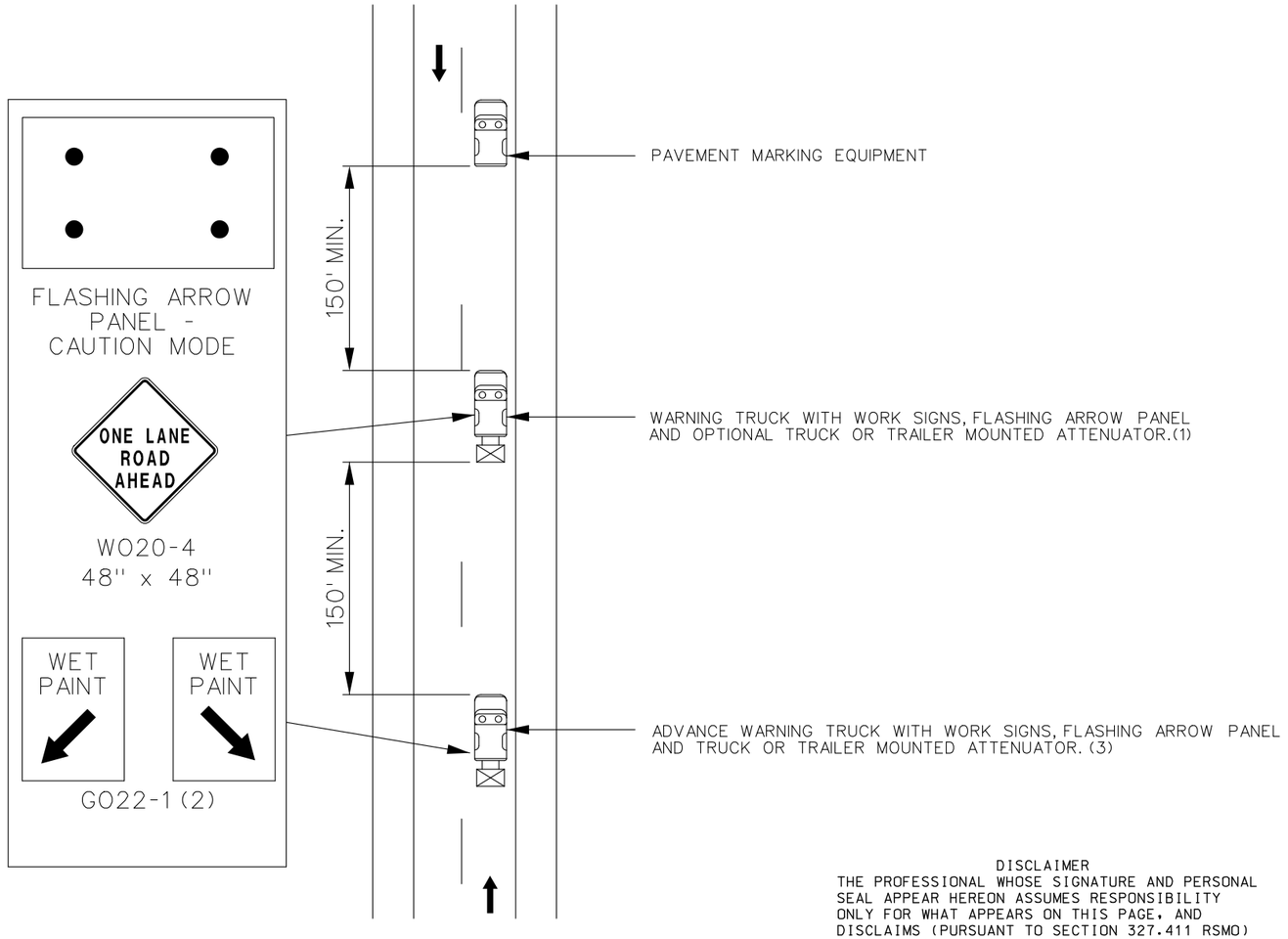
BRIDGE NO.

NO.	DESCRIPTION	DATE

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

TRAFFIC CONTROL SHEET
MOBILE OPERATION ON
A TWO-LANE ROAD

CENTER LINE / EDGE LINE STRIPING ON TWO-LANE HIGHWAYS



TWO-LANE UNDIVIDED HIGHWAY

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

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

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
10/09/2026 7:33:12 AM
AARON JOHN GROFF - CIVIL
MO-PE-2008019544

DATE PREPARED: 10/8/2026

ROUTE	STATE
AF-D 44SOR	MO
DISTRICT	SHEET NO.
SL	17

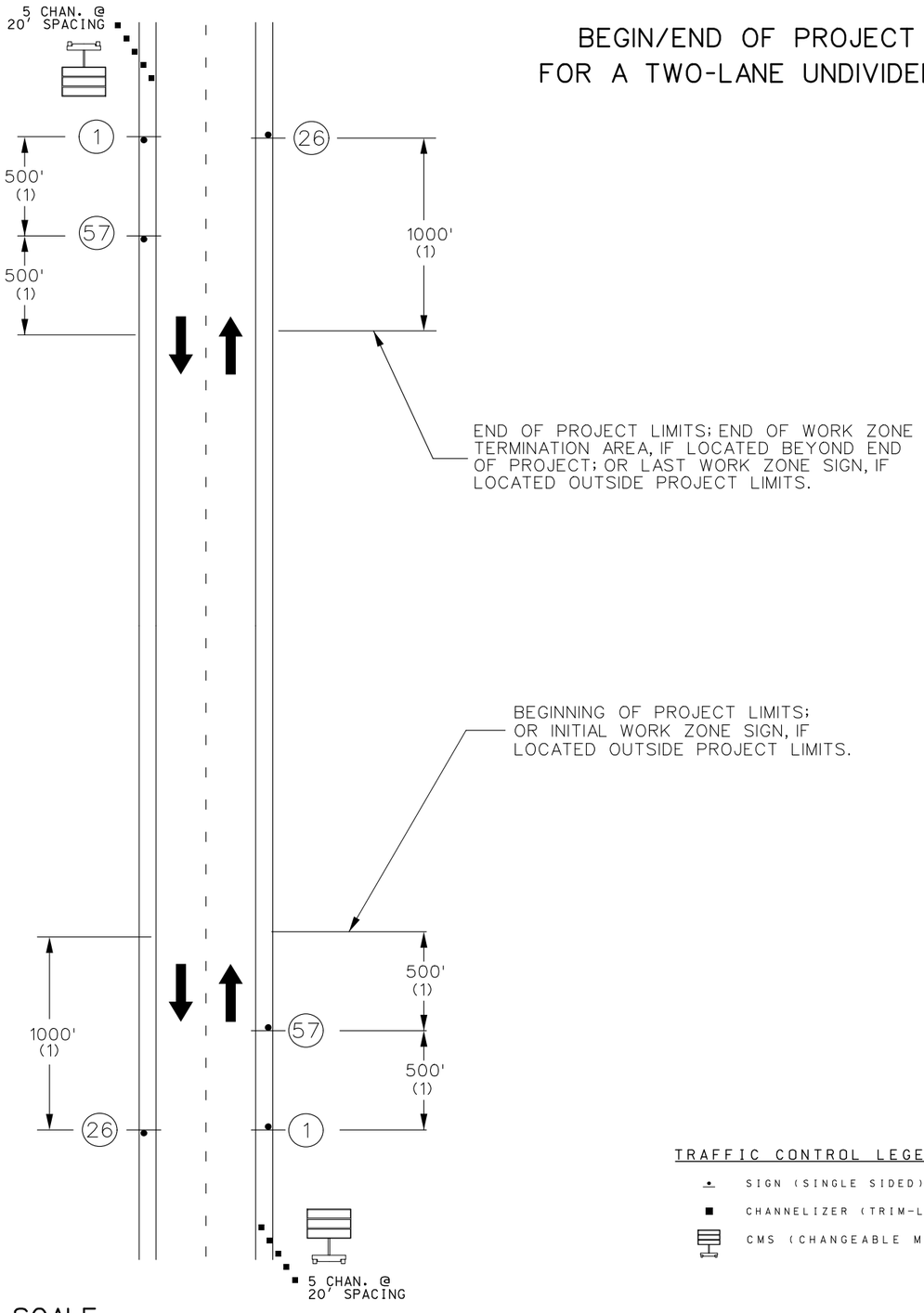
COUNTY: FRANKLIN
JOB NO.: JST0189
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

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

TRAFFIC CONTROL SHEET
CENTER LINE / EDGE LINE STRIPING
ON TWO-LANE HIGHWAY

BEGIN/END OF PROJECT SIGNING FOR A TWO-LANE UNDIVIDED HIGHWAY



NOT TO SCALE

NOTES:

SIGN G020-2 IS USED ON ALL PROJECTS WHERE SIGN G020-1 IS USED.

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

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

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

(2) CONST-5-96 OR CONST-5-48 SIGN IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE SIGN CONST-7-72 OR CONST-7-48.

(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.

NO DIRECT PAY WILL BE MADE FOR THE RELOCATION OF CONSTRUCTION SIGNS OR DEVICES.

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

CMS LOCATIONS TO BE DETERMINED BY THE ENGINEER



G020-1
(1)



G020-2
(26)



SPECIAL (4)
(57)

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- CMS (CHANGEABLE MESSAGE BOARD)

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

STATE OF MISSOURI
AARON JOHN GROFF
NUMBER PE-2008019544
PROFESSIONAL ENGINEER
10/25/2026 8:12:13 AM
AARON.JOHN.GROFF - CIVIL
MO-PE-2008019544

DATE PREPARED: 10/23/2026

ROUTE	STATE
AF-D 44SOR	MO
DISTRICT	SHEET NO.
SL	18

COUNTY: FRANKLIN

JOB NO.: JST0189

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL SHEET
BEGINNING/END OF PROJECT