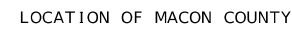


A.A.D.T - 2023= 120  
V = 55 M.P.H



## T57N R17W




TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (1 SHEET)----	2
QUANTITIES (QU) (1 SHEET)-----	3
SPECIAL SHEET (SS) (1 SHEET)-----	4
TRAFFIC CONTROL (TC) (6 SHEETS)----	5-10

DATE PREPARED	
8/22/2023	
ROUTE	STATE
129	MO
DISTRICT	SHEET NO.
NE	1

COUNTY
MACON
JOB NO.
JNE0018
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

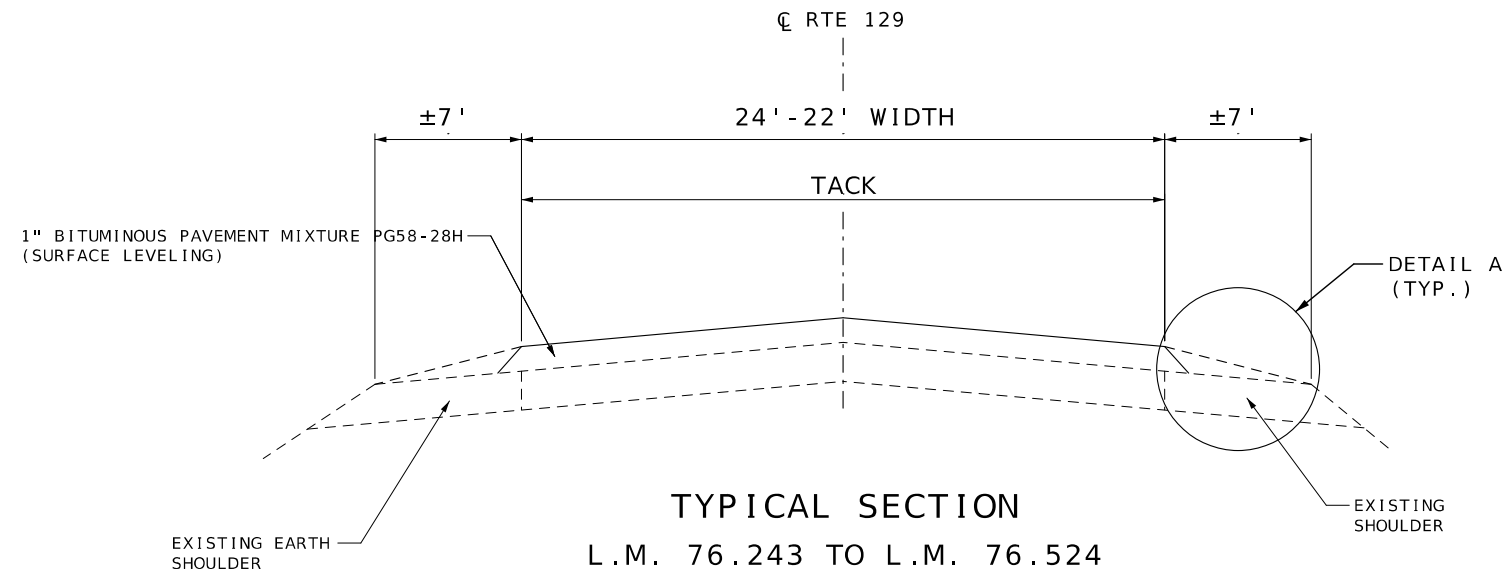
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

NONE

TOTAL CORRECTIONS	0.00 MILES
NET LENGTH OF PROJECT	6.231 MILES
STATE LENGTH	6.231 MILES

TITLESHEET

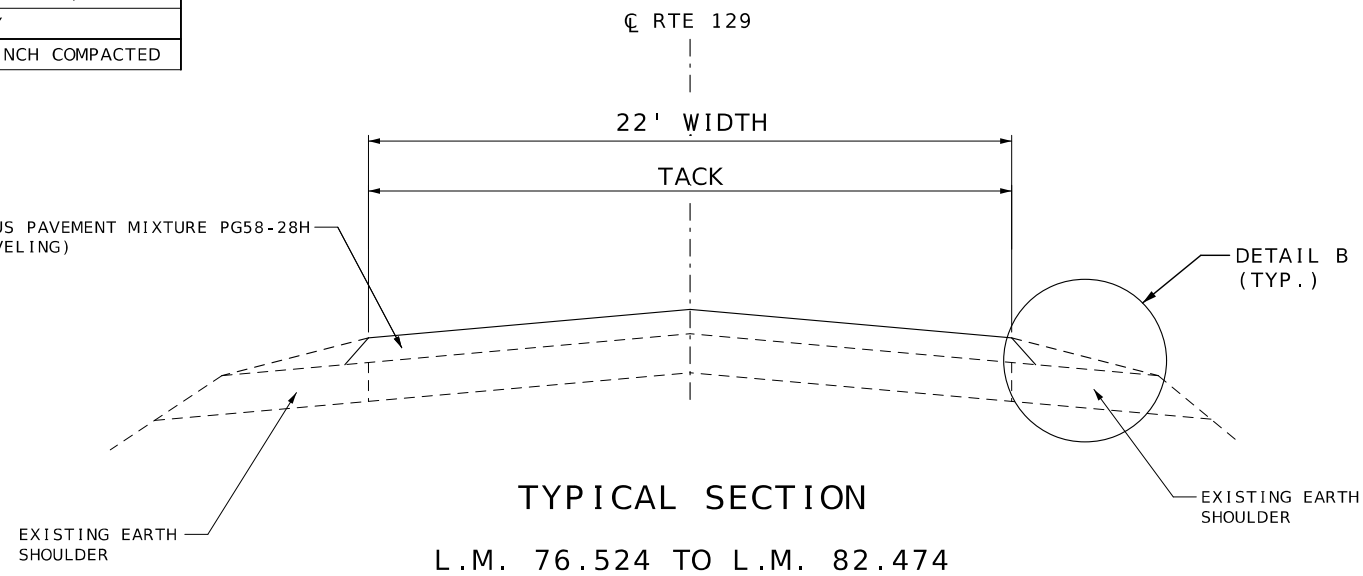
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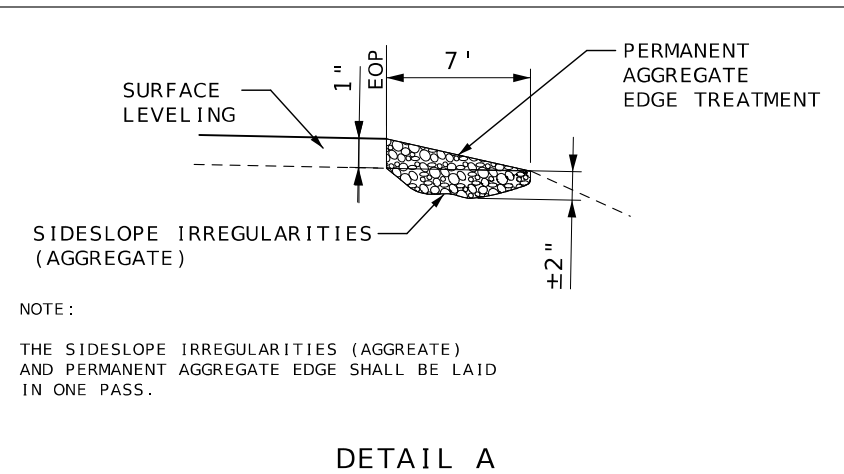
PERM. AGGR. EDGE TREATMENT  
 L.M. 76.243 TO L.M. 76.292 (RIGHT)  
 L.M. 76.243 TO L.M. 76.384 (LEFT)

NOTE:  
 SURFACE PLACEMENT SHALL BE ONE PASS PER LANE  
 NO S.E. CORRECTION.

ESTIMATE FACTORS
PROVIDED FOR INFORMATION PURPOSES ONLY
BITUMINOUS PAVEMENT MIXTURE PG 58-28H (BP-1) = 1.948 TON/CY
TACK COAT (EXISTING SURFACE) = 0.08 GAL/SY
TYPE 1 AGGR. FOR AGGR. EDGE TREATMENT = 0.058 TONS/SY/INCH COMPACTED

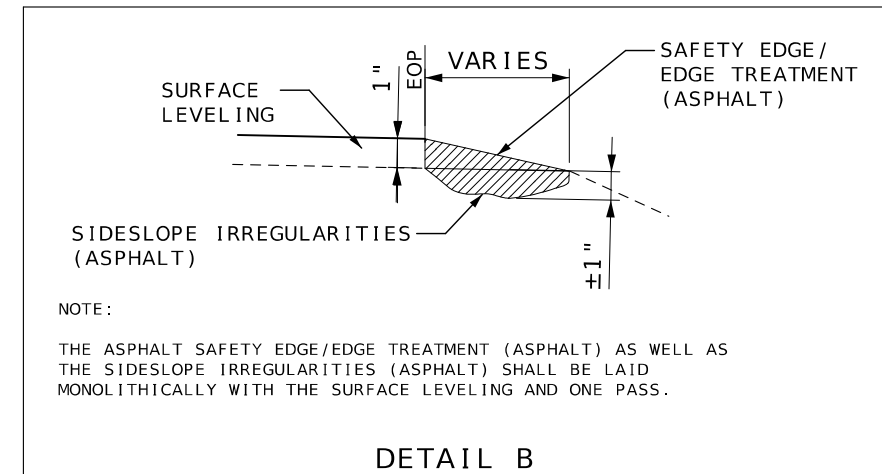


TYPICAL SECTION  
 L.M. 76.524 TO L.M. 82.474



NOTE:  
 THE SIDESLOPE IRREGULARITIES (AGGREATE)  
 AND PERMANENT AGGREGATE EDGE SHALL BE LAID  
 IN ONE PASS.

DETAIL A



NOTE:  
 THE ASPHALT SAFETY EDGE/EDGE TREATMENT (ASPHALT) AS WELL AS  
 THE SIDESLOPE IRREGULARITIES (ASPHALT) SHALL BE LAID  
 MONOLITHICALLY WITH THE SURFACE LEVELING AND ONE PASS.

DETAIL B

STATE OF MISSOURI

BRIAN UNTIEDT

NUMBER

PE-2009001137

PROFESSIONAL ENGINEER

DATE PREPARED

8/22/2023

ROUTE

129

STATE

MO

DISTRICT

NE

SHEET NO.

2

COUNTY

MACON

JOB NO.

JNE0018

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

MODOT

TYPICAL SECTION SHEET

SHEET 1 OF 1

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

1" BITUMINOUS PAVEMENT MIXTURE PG58-28H (SURFACE LEVELING)									
LOG MILE	LOG MILE	LENGTH (FT)	THICKNESS (IN)	WIDTH (FT)	TOTAL AREA (SQ YD)	MODIFIED COLDMILLING (SQ YD)	1" SURFACE LEVELING @ 1.948 TONS/CY (TONS)	TACK COAT 0.08 GAL/ SQ. YD. (GAL)	REMARKS
76.243	76.252	50.00	1.00	VARIES	186	186	10.1	14.9	BEGIN PROJECT
76.252	76.524	1436.16	1.00	24	3830	-	207.2	306.4	
76.524	77.977	7671.84	1.00	22	18753	-	1014.7	1500.2	
77.977	78.032	290.40	1.00	22	710	103	38.4	56.8	TRANSVERSE MILLING (SEE SPECIAL SHEET)
78.032	82.470	23432.64	1.00	22	57280	-	3099.5	4582.4	
-	-	125.00	1.00	VARIES	398	61	21.5	31.8	RTE WW
82.465	82.474	50.00	1.00	22	122	122	6.6	9.8	END PROJECT
76.243	82.474	32899.68	-	-	-	-	934.7	-	ADDTL. 150 TONS/MILE FOR SURFACE IRREGULARITIES
76.243	82.474	32899.68	-	-	-	-	395.6	-	SAFETY EDGE/EDGE TREATMENT - LEFT AND RIGHT
SUBTOTAL						472.0	5,728.3	6,502.3	
TOTAL						472.0	5,728.3	6,502	

MOBILIZATION
1 LUMP SUM

PAVEMENT MARKINGS						
LOG MILE	LOG MILE	LOCATION	STANDARD WATERBORNE PAINT, TYPE P BEADS			REMARKS
			4" YELLOW SOLID/INTERMITTENT CENTERLINE	4" YELLOW DOUBLE SOLID CENTERLINE	4" WHITE SOLID EDGE LINE	
			L.F.	L.F.	L.F.	
76.243	81.199	RTE 129		52,335	52,335	
81.199	81.320	RTE 129	799		1,278	NBL SOLID AND SBL INTERMITTENT
81.320	81.355	RTE 129		370	370	
81.355	81.476	RTE 129	799		1,278	NBL INTERMITTENT AND SBL SOLID
81.476	82.334	RTE 129		9,060	9,060	
82.334	82.474	RTE 129	924		1,478	NBL SOLID AND SBL INTERMITTENT
-	-	RTE WW		150		
76.243	82.474	RTE 129			-100	EDGE LINE EXCEPTIONS
SUB-TOTAL			2,522	61,915	65,699	
			TOTAL	64,437	65,699	
LOG MILES ARE APPROXIMATE - MATCH EXISTING STRIPING						

CONSTRUCTION SIGNS						
SIGN NO.	SIGN	SIZE INCHES	AREA (SQ. FT. )	QUANTITY	TOTAL AREA (SQ. FT. )	DESCRIPTION
1	G020-1	60 X 24	10.00	2	20.00	ROAD WORK NEXT 6 MILES
2	W020-1	48 X 48	16.00	4	64.00	ROAD WORK AHEAD
7	W020-4	48 X 48	16.00	6	96.00	ONE LANE ROAD AHEAD
8	W020-7a	48 X 48	16.00	4	64.00	FLAGGER (SYMBOL) WITH FLAGS
26	G020-2	48 X 24	8.00	2	16.00	END ROAD WORK
35	W08-12	48 X 48	16.00	8	128.00	NO CENTER LINE
53	G020-4	36 X 18	4.50	3	13.50	PILOT CAR FOLLOW ME
56	CONST-7	48 X 24	8.00	3	24.00	RATE OUR WORK ZONE
36	W08-11	48 X 48	16.00	14	224.00	UNEVEN LANES
59	CONST-8	48 X 36	12.00	2	24.00	WORK ZONE NO PHONE ZONE
	G022-1	21 X 15	2.19	4	8.76	WET PAINT (ARROW PIVOTS)
SIDE ROAD PACKAGE - NON-STATE ROUTE - 4 TOTAL						
2	W020-1	48 X 48	16.00	4	64.00	ROAD WORK AHEAD
8	W020-7a	48 X 48	16.00	4	64.00	FLAGGER (SYMBOL) WITH FLAGS
11	W03-4	48 X 48	16.00	4	64.00	BE PREPARED TO STOP
58	SPECIAL	18 X 12	1.50	4	6.00	PILOT CAR IN USE WAIT & FOLLOW
SIDE ROAD PACKAGE - STATE ROUTE - 1 TOTAL						
2	W020-1	48 X 48	16.00	1	16.00	ROAD WORK AHEAD
8	W020-7a	48 X 48	16.00	1	16.00	FLAGGER (SYMBOL) WITH FLAGS
11	W03-4	48 X 48	16.00	1	16.00	BE PREPARED TO STOP
58	G020-4a	42 X 30	8.75	1	8.75	PILOT CAR IN USE WAIT & FOLLOW
4-LANE SIDE ROAD PACKAGE - STATE ROUTE - 1 TOTAL						
2	W020-1	48 X 48	16.00	2	32.00	ROAD WORK AHEAD
4	R2-1	36 X 48	12.00	2	24.00	SPEED LIMIT 55
5	W020-5	48 X 48	16.00	2	32.00	RIGHT LANE CLOSED AHEAD
6	W020-6a	48 X 48	16.00	1	16.00	RIGHT LANE CLOSED
12	W04-1aL	48 X 48	16.00	1	16.00	MERGE (LEFT ARROW)
25	R2-1	36 X 48	12.00	2	24.00	SPEED LIMIT 65
45	R4-1	36 X 48	12.00	2	24.00	DO NOT PASS
46	R4-2	36 X 48	12.00	2	24.00	PASS WITH CARE
58	G020-5aP	36 X 24	6.00	4	24.00	WORK ZONE PLAQUE
(616-10.05) CONSTRUCTION SIGNS TOTAL					1153.01	
(616-10.05) CONSTRUCTION SIGNS TOTAL (USE)					1154	

NOTE: REFER TO STD. PLAN 616.10 AND 903.03 FOR  
SIGN AND SIGN MOUNTING REQUIREMENTS

ITEM NO.	QTY.	DESCRIPTION
616-10.25	100	CHANNELIZERS (TRIM-LINE)
612-30.00A	2	TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
616-10.33	18	DIRECTIONAL INDICATOR BARRICADE
616-10.40	1	FLASHING ARROW PANEL

AGGREGATE ENTRANCES					
LOG MILE	LOG MILE	NUMBER OF ENTRANCES	AVERAGE TONS PER ENTRANCE	GRAVEL A, CRUSHED STONE B 0.039 TON/SY/INCH TONS	REMARKS
76.243	82.474	41	2.0	82.0	PRIVATE AND FIELD ENTRANCES
76.243	82.474	4	4.0	16.0	COUNTY ROADS, CITY STREETS, COMMERCIAL ENTRANCES
TOTAL				98.0	

TYPE 1 AGGREGATE FOR PERMANENT AGGREGATE EDGE TREATMENT						
LOG MILE	LOG MILE	LENGTH (FT)	WIDTH (FT)	AVG THICKNESS (INCHES)	(0.058T/SY/IN) QUANTITY (TONS)	REMARKS
76.243	76.292	259	7	1.0	11.7	LEFT SHOULDER
76.243	76.384	744	7	1.0	33.6	RIGHT SHOULDER
-	-	1003	7	2.0	45.2	SIDESLOPE IRREGULARITIES BOTH SHOULDERS
TOTAL					91.0	

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 BRIAN UNTCH - CIVIL  
 MO-PE-2009001137

DATE PREPARED  
7/27/2023

ROUTE 129	STATE MO
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DISTRICT	SHEET NO
NE	3

COUNTY  
MACON

JOB NO.  
JNE0018

CONTRACT ID.
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PROJECT NO.
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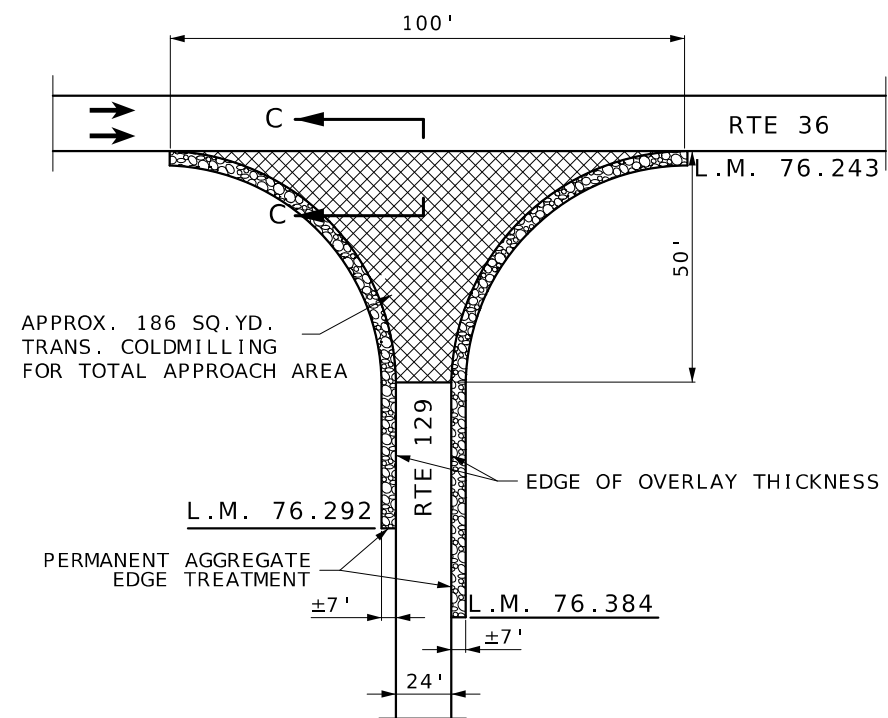
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MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

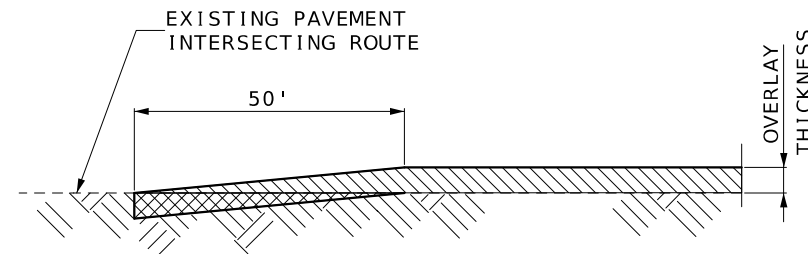
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102

SUMMARY OF QUANTITIES SHEET  
SHEET 1 OF 1

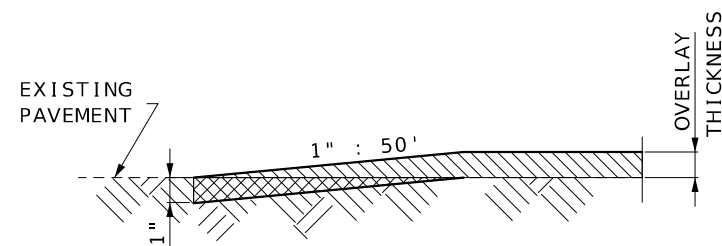
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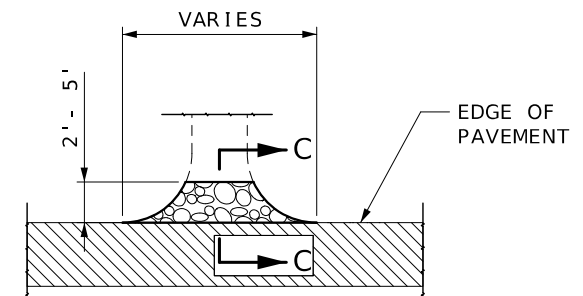
BEGINNING OF PROJECT  
AT RTE. 36



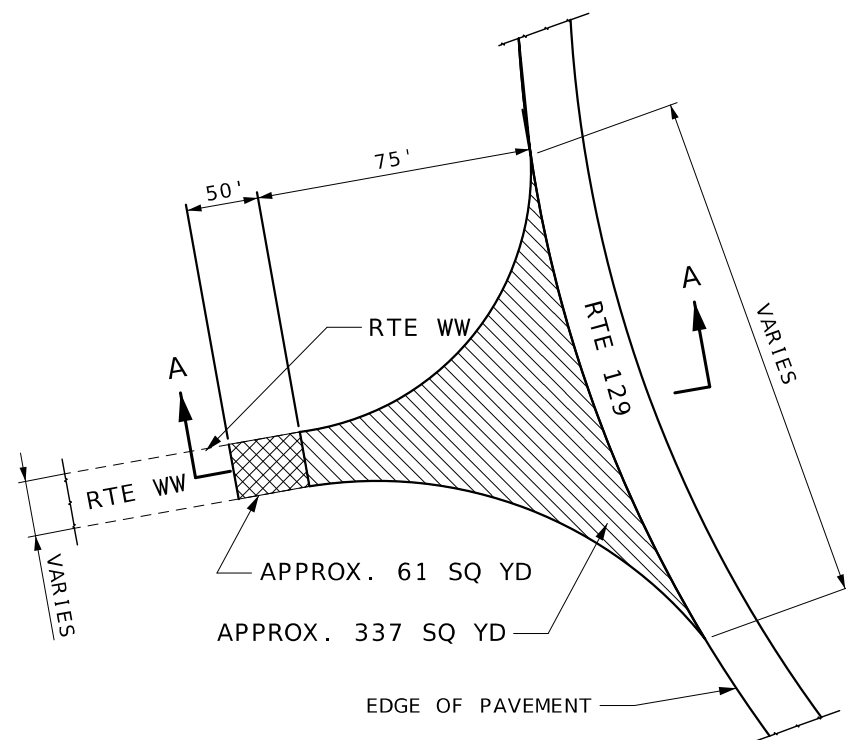
SECTION C-C  
DEPTH TRANSITIONS  
BEGINNING OF PROJECT  
AT RTE 36



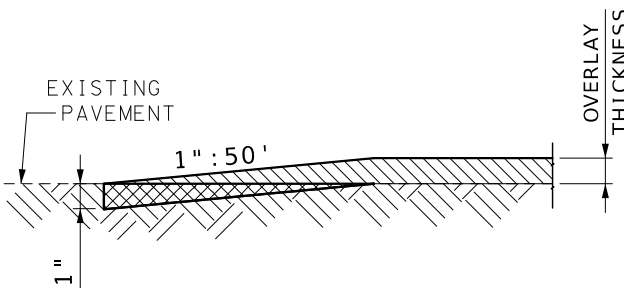
TRAVELWAY DEPTH TRANSITIONS  
END OF PROJECT AT  
CHARITON COUNTY LINE



SECTION C-C  
TYPICAL AGGREGATE ENTRANCE  
(FIELD, PRIVATE ENTRANCES,  
AND COUNTY ROADS)

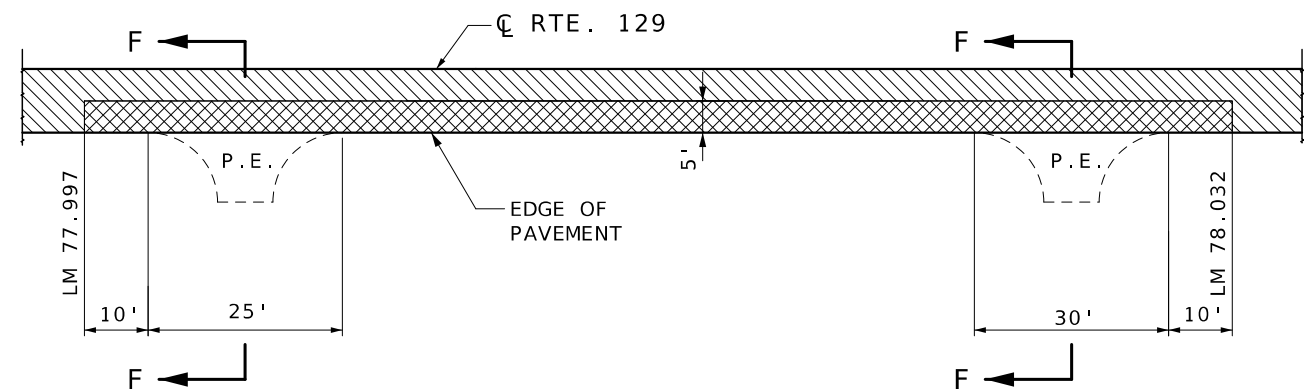


SECTION A-A  
STATE ROUTE WW JUNCTION

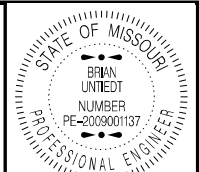
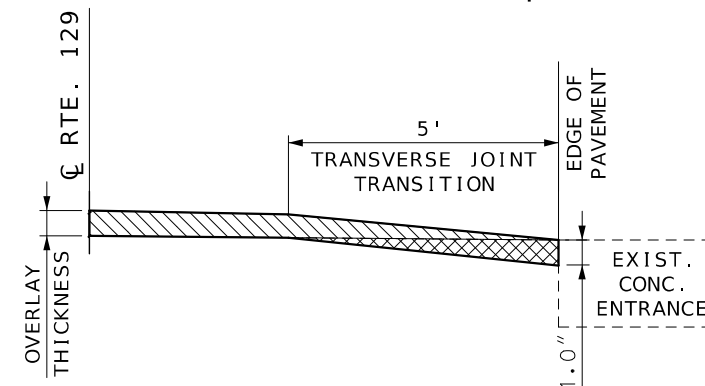


#### LEGEND

- PERM. AGGR. EDGE TREATMENT
- GRAVEL OR CRUSHED STONE
- OVERLAY
- MODIFIED COLDMILLING



SECTION F-F  
TRANSVERSE MILLING BETWEEN  
CONCRETE ENTRANCES  
L.M. 77.997 TO L.M. 78.032



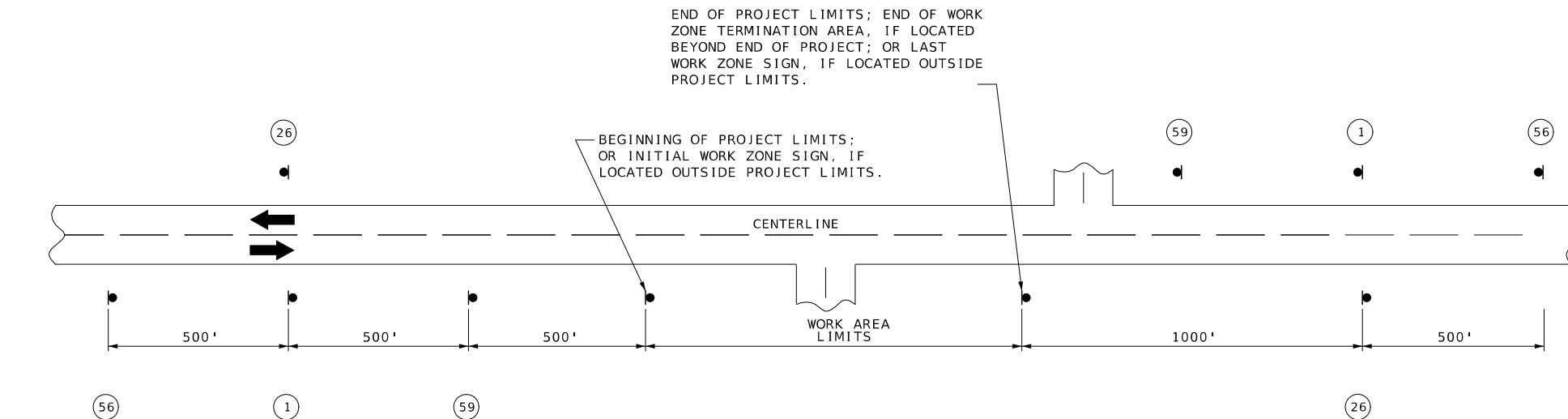
DATE PREPARED  
8/31/2023  
ROUTE 129 STATE MO  
DISTRICT NE SHEET NO. 4  
COUNTY MACON  
JOB NO. JNE0018  
CONTRACT ID. ###  
PROJECT NO. ###  
BRIDGE NO. ###

DATE	DESCRIPTION

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

SPECIAL SHEET  
SHEET 1 OF 1

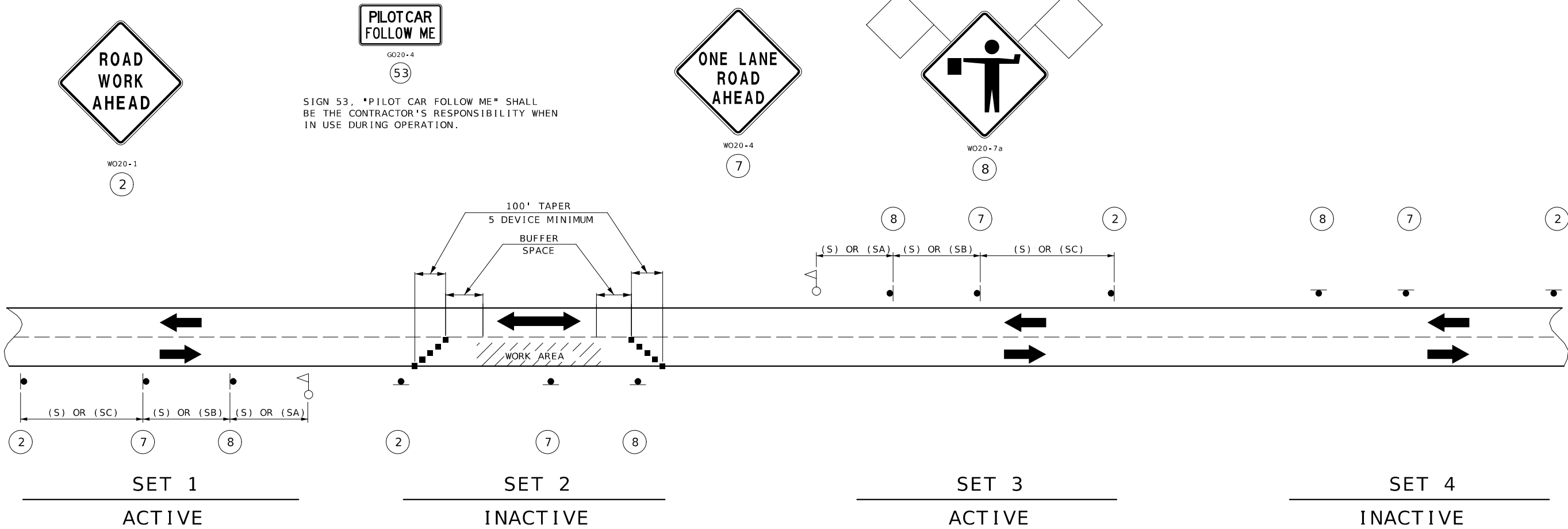
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.



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



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

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

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

- - CHANNELIZERS
- - FLAGGER

NOTES:

DAYLIGHT FLAGGING OPERATIONS ONLY.

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

SPEED	SIGN SPACING (FT.)	
	(1)	
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	1000	(SA) -1000 (SB) -1500 (SC) -2640

PERMANENT POSTED SPEED LIMIT (MPH)	BUFFER SPACE LENGTH (FT)
0 - 35	280
40 - 45	400
50 - 55	560
60 - 70	840

NOTES:

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

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

STATE OF MISSOURI  
BRIAN UNTEDT  
NUMBER  
PE-2009001137  
PROFESSIONAL ENGINEER  
*Brian Untedt*  
08/22/2023 2:15:59 PM  
BRIAN UNTEDT - CIVIL  
MO-PE-2009001137

DATE PREPARED  
8/22/2023

ROUTE  
129

DISTRICT  
NE

STATE  
MO

SHEET NO.  
6

COUNTY  
MACON

JOB NO.  
JNE0018

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

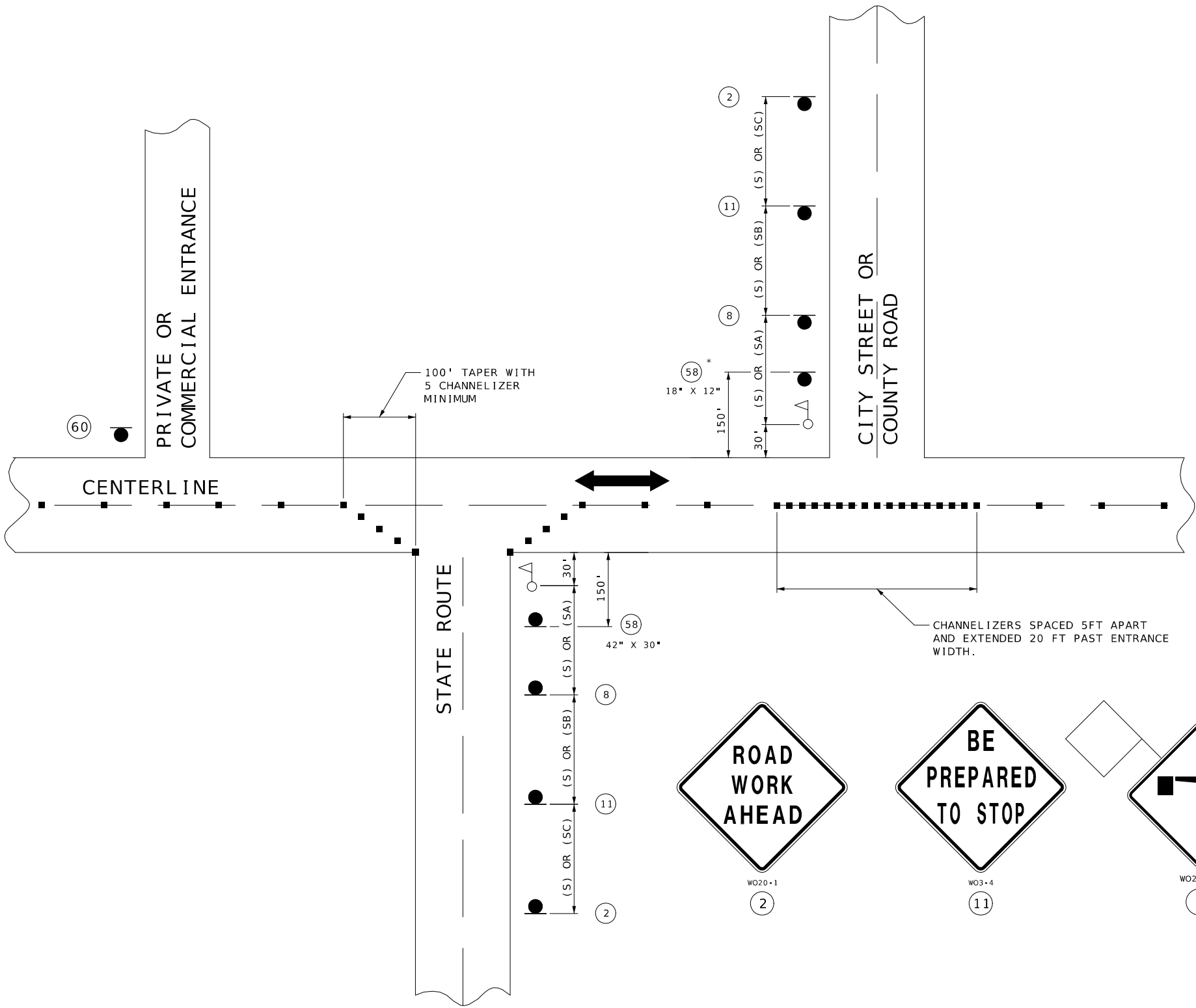
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TEMPORARY TRAFFIC CONTROL  
LANE CLOSURE ON TWO-LANE HIGHWAY  
SHEET 2 OF 6  
NOT TO SCALE

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



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

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

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

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

■ - CHANNELIZERS ( AS SPECIFIED)

△ - FLAGGER

SHALL BE USED ON ALL STATE ROUTES AND MAY BE USED ON ANY NON-STATE ROUTES, AS DETERMINED BY THE ENGINEER.

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

SHALL ONLY BE USED AT PRIVATE AND COMMERCIAL ENTRANCES. SEE SPECIAL PROVISIONS.



DATE PREPARED  
7/27/2023  
ROUTE 129  
STATE MO  
DISTRICT NE  
SHEET NO. 7

COUNTY  
MACON  
JOB NO.  
JNE0018  
CONTRACT ID.

PROJECT NO.

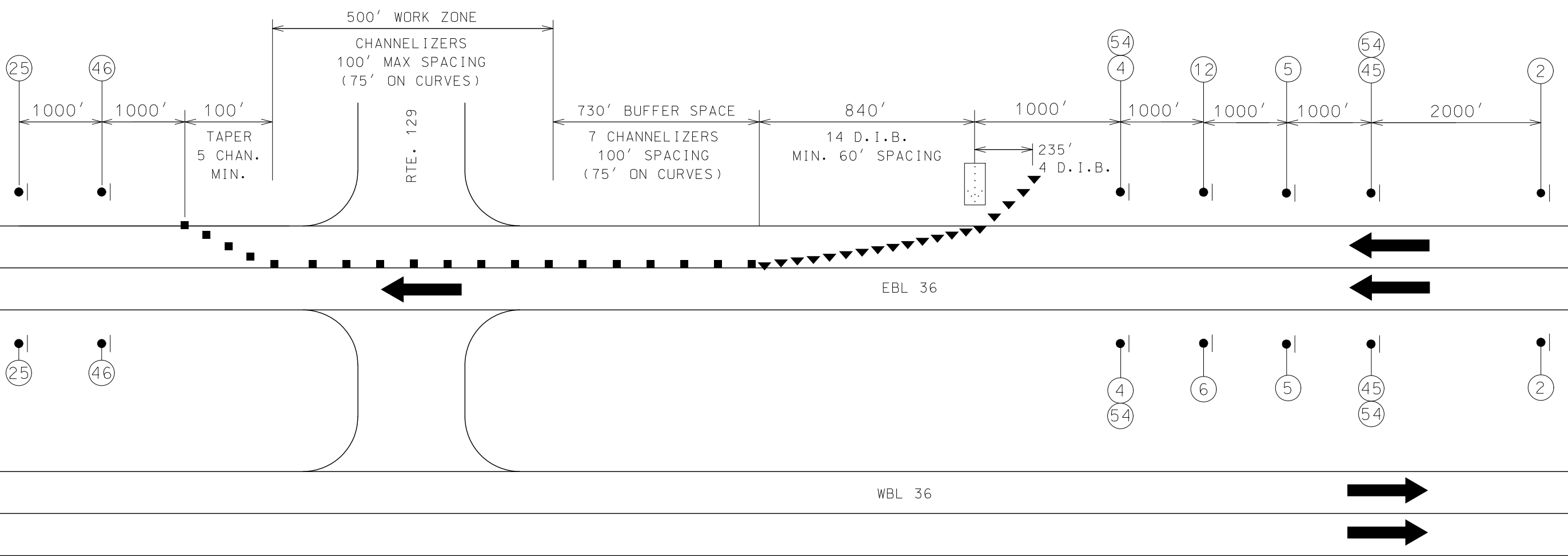
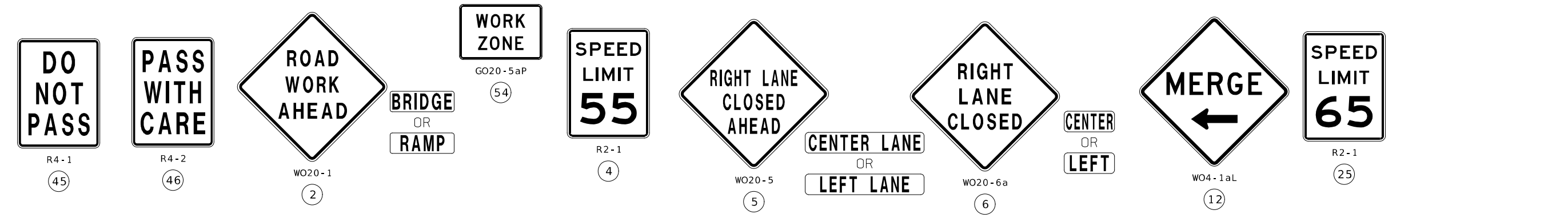
BRIDGE NO.

DATE	DESCRIPTION

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

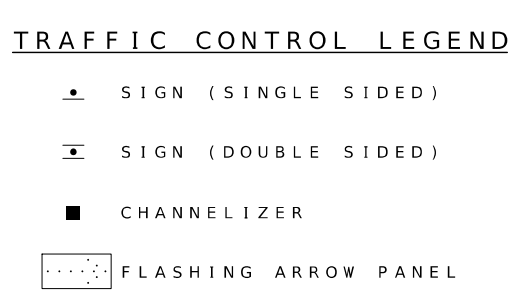
TEMPORARY TRAFFIC CONTROL  
SIDE ROAD ENTERING WORK ZONE  
SHEET 3 OF 6  
NOT TO SCALE

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



GENERAL NOTES

1. USE IN PLACE ALL SIGNS WHICH DO NOT CONFLICT WITH THIS PLAN. COVER OR REMOVE CONFLICTING SIGNS.



STATE OF MISSOURI  
BRIAN UNITED  
NUMBER  
PE-2009001137  
PROFESSIONAL ENGINEER  
*Brian United*  
07/28/2023 11:08:23 PM  
BRIAN UNITED - CIVIL  
MO-PE-2009001137

DATE PREPARED  
7/27/2023

ROUTE  
129

DISTRICT  
NE

COUNTY  
MACON

JOB NO.  
JNE0018

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

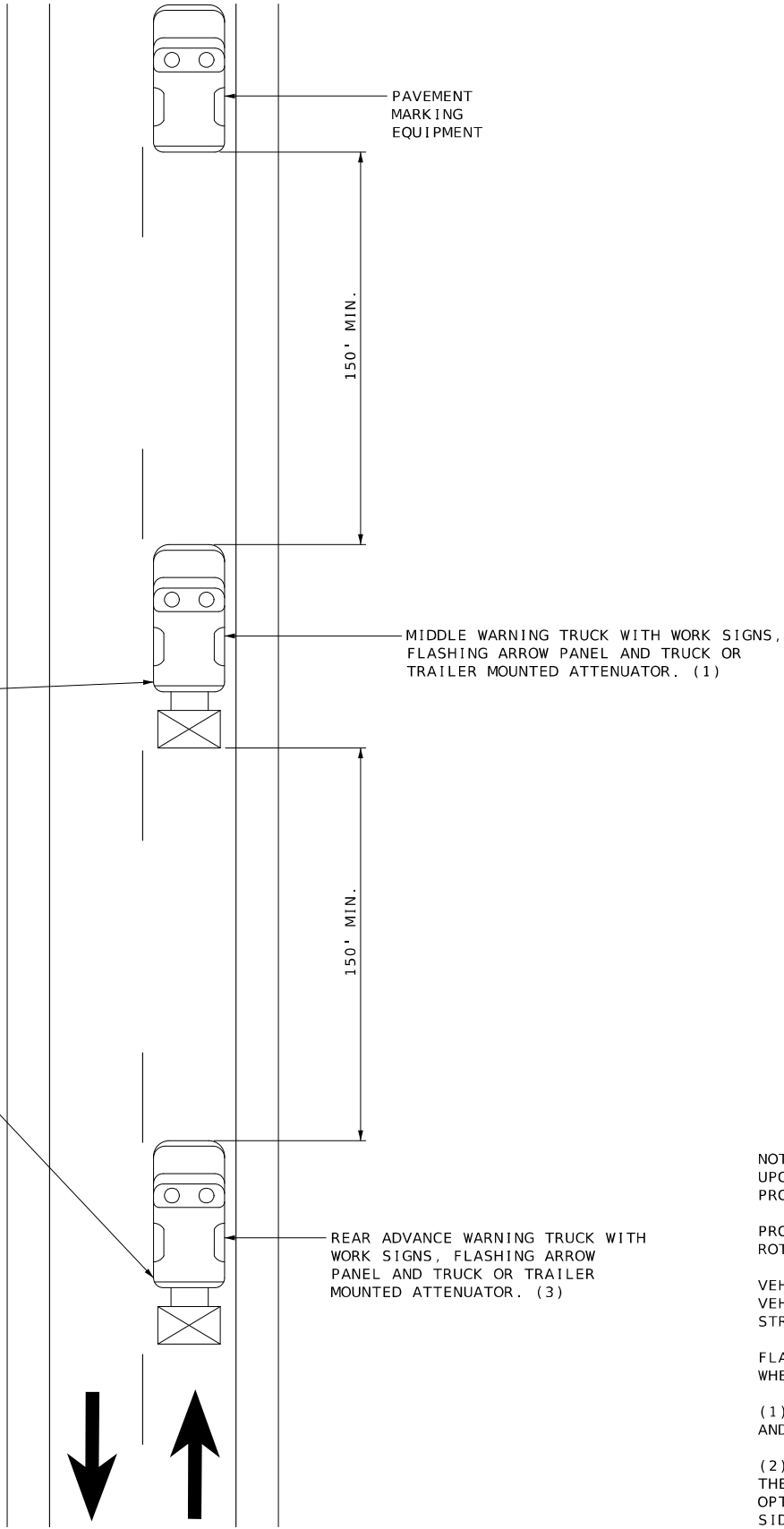
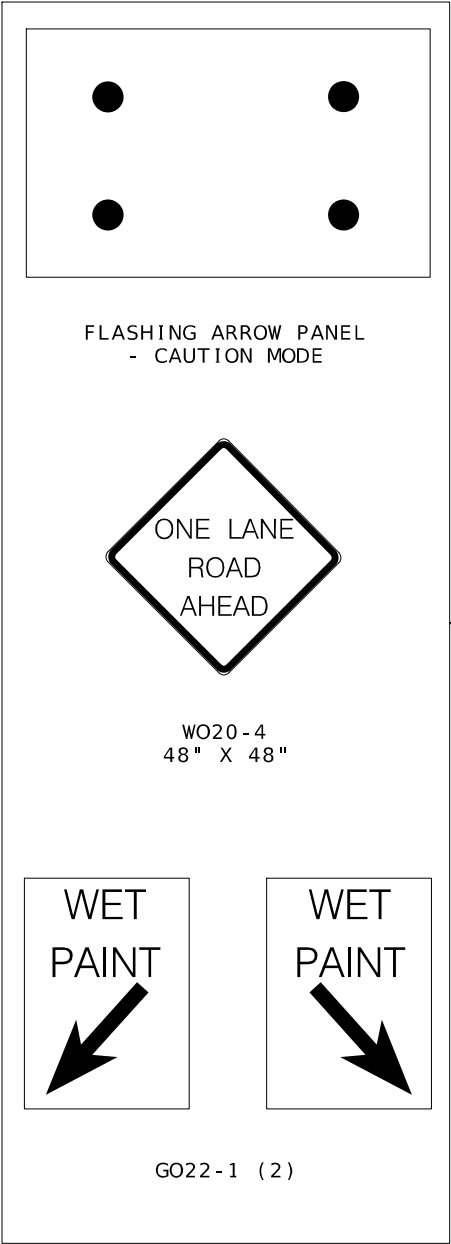
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TEMPORARY TRAFFIC CONTROL  
SIDE ROAD ENTERING WORK ZONE  
SHEET 4 OF 6  
NOT TO SCALE

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





CENTERLINE/EDGE LINE STRIPING ON TWO-LANE HIGHWAYS

- NOTES:
- UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCK EQUIPPED WITH PROPER WARNING DEVICES.
- PROTECTIVE TRUCK AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.
- VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.
- FLASHING ARROW PANELS SHALL BE INCIDENTAL TO TRUCK MOUNTED ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT SHALL BE MADE.
- (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) REAR ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE, OR SPACING SHOWN.

STATE OF MISSOURI

BRIAN UNITED

NUMBER

PE-2009001137

PROFESSIONAL ENGINEER

08/22/2023 2:16:39 PM

BRIAN UNITED - CIVIL

MO-PE-2009001137

DATE PREPARED

8/22/2023

ROUTE

129

DISTRICT

NE

STATE

MO

SHEET NO.

10

COUNTY

MACON

JOB NO.

JNE0018

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TEMPORARY TRAFFIC CONTROL

MOVING OPERATION ON HIGHWAY

SHEET 6 OF 6

NOT TO SCALE

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