

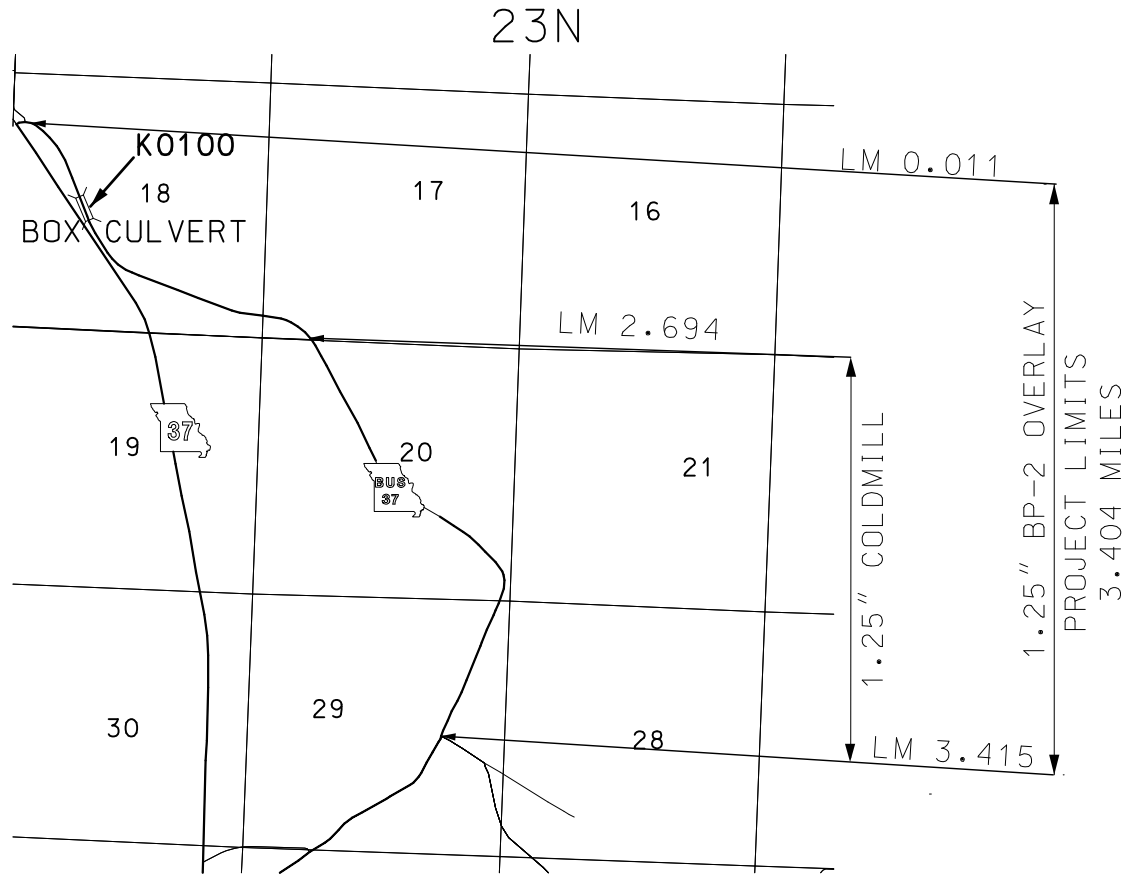
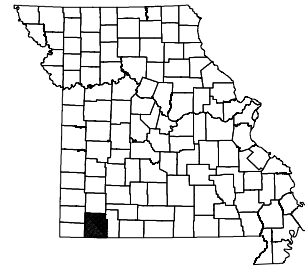
**DESIGN DESIGNATION**

A.A.D.T. - 2023 = 3,715  
 A.A.D.T. - 2043 = 4,529  
 D.H.V. = 9%  
 T = 8%  
 V = 55/50/45/35/25 M.P.H.  
 D = 52.6% / 47.4% (N/S)

FUNCTIONAL CLASSIFICATION- MAJOR COLLECTOR

NO NEW RIGHT OF WAY REQUIRED

**MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
 PLANS FOR PROPOSED  
 STATE HIGHWAY  
 BARRY COUNTY**

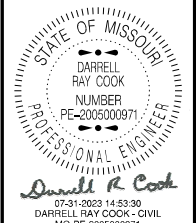


NOT TO SCALE

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
SPECIAL SHEETS (SS)-----	4-5
TRAFFIC CONTROL SHEETS (TC)-----	6-10



DATE PREPARED  
7/28/2023  
 ROUTE STATE  
BU37 MO  
 DISTRICT SHEET NO.  
SW 1  
 COUNTY  
BARRY  
 JOB NO.  
J7P3437  
 CONTRACT ID.  
 PROJECT NO.  
 BRIDGE NO.

DATE	DESCRIPTION

**LENGTH OF PROJECT**

BEGINNING OF PROJECT LOG MILE: 0.011  
 END OF PROJECT LOG MILE: 3.415  
 APPARENT LENGTH 17973.12 FEET  
 EQUATIONS AND EXCEPTIONS:  
 NONE

TOTAL CORRECTIONS 17973.12 FEET  
 NET LENGTH OF PROJECT 17973.12 FEET  
 STATE LENGTH 3.404 MILES  
 FOR INFORMATION ONLY  
 ESTIMATED DISTURBED ACRES 0 ACRES

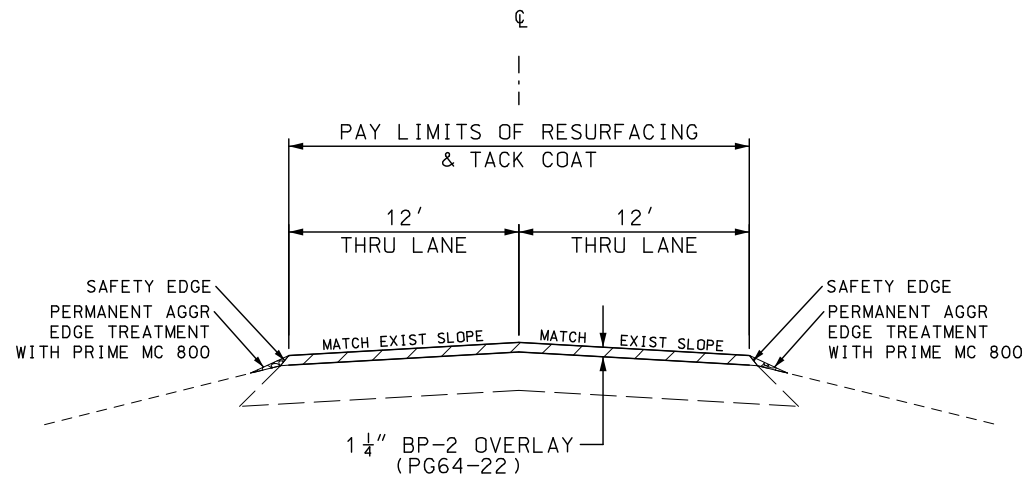
**CONVENTIONAL SYMBOLS  
 (USED IN PLANS)**

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

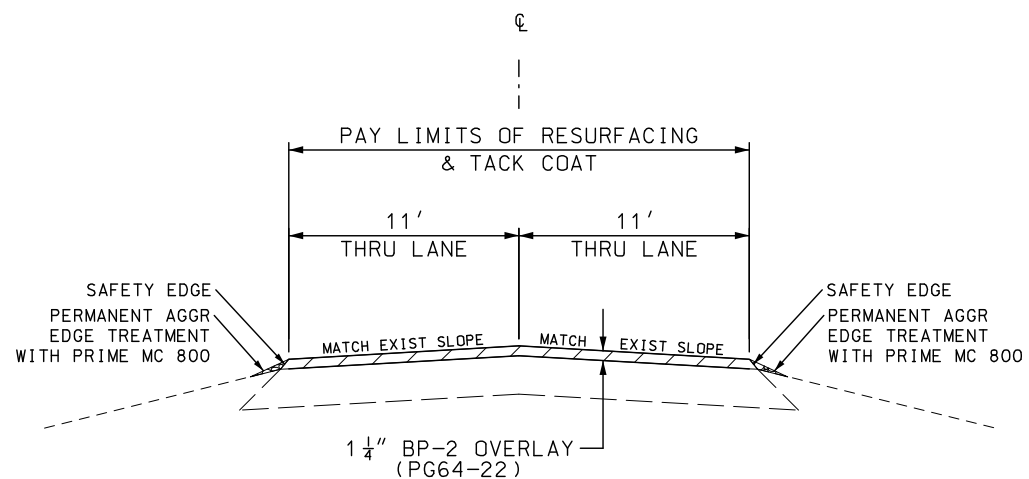
NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

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

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



ROUTE BUS 37  
LOG MILE 0.011 TO LOG MILE 0.439

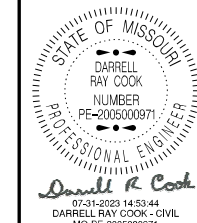


ROUTE BUS 37  
LOG MILE 0.439 TO LOG MILE 2.694

LANE WIDTH NOTED IS TYPICAL LANE WIDTH.  
ADJUST PAVING WIDTHS TO EXISTING FIELD CONDITIONS.

SURFACE PLACEMENT - ONE PASS PER LANE  
NO S.E. CORRECTION

ASPHALT FACTORS		
	COMBINED FACTOR	% AC
BP-2 (PG64-22)	1.960 TONS/CY	5.6
TACK COAT		
COLDMILLING	0.08 GAL/SY	
OVERLAY	0.10 GAL/SY	
PRIME LIQUID ASPHALT MC 800		
PERMANENT AGGREGATE EDGE TREATMENT	0.25 GAL/SY	
BITUMINOUS FOG SEAL		
FOG SEAL MC 800	0.20 GAL/SY	
IRREGULARITIES: 75 TONS/MI		



DATE PREPARED  
7/28/2023

ROUTE BU37	STATE MO
DISTRICT SW	SHEET NO. 2

COUNTY  
BARRY

JOB NO.  
J7P3437

CONTRACT ID.

PROJECT NO.

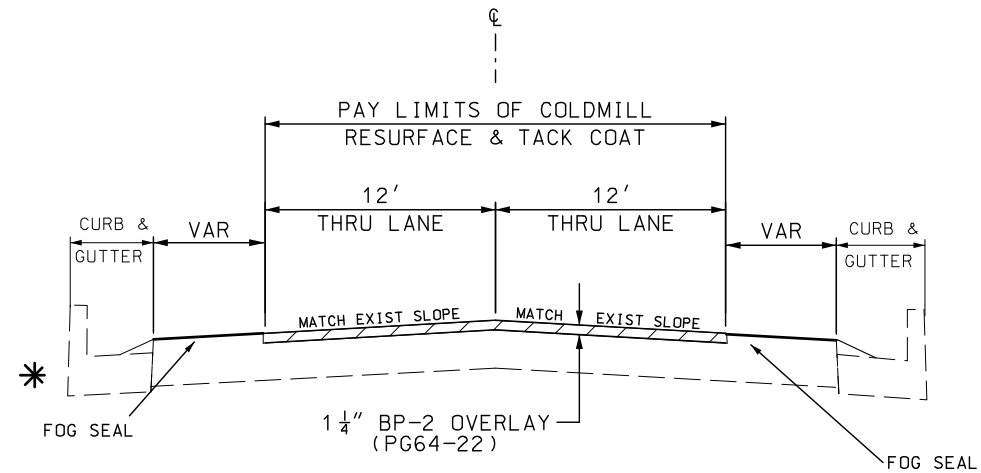
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

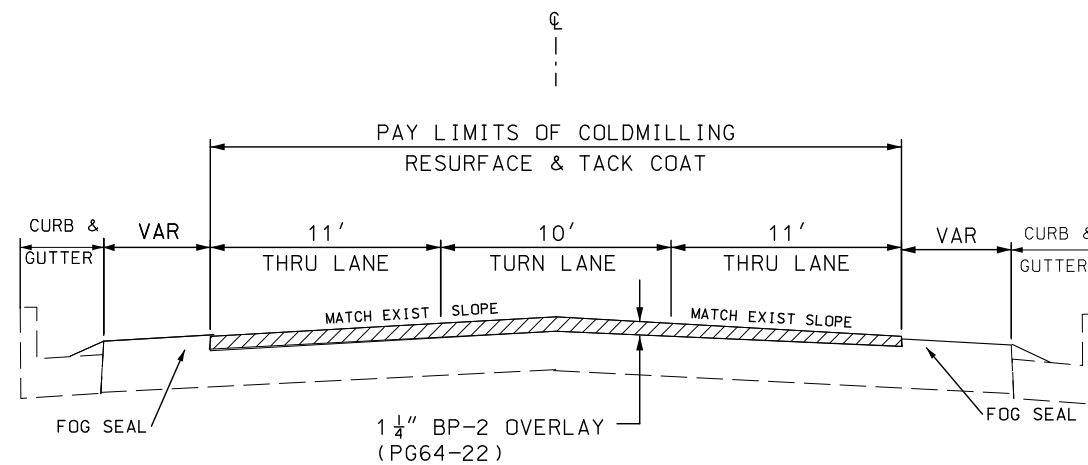
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



ROUTE BU37

LOG MILE 2.694 TO LOG MILE 3.302  
 LOG MILE 3.323 TO LOG MILE 3.415

\* NOTE:  
 LEFT CURB AND GUTTER STARTS AT 2.820



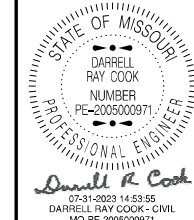
ROUTE BU37

LOG MILE 3.302 TO LOG MILE 3.323

LANE WIDTH NOTED IS TYPICAL LANE WIDTH.  
 ADJUST PAVING WIDTHS TO EXISTING FIELD CONDITIONS.

SURFACE PLACEMENT - ONE PASS PER LANE  
 NO S.E. CORRECTION

ASPHALT FACTORS		
	COMBINED FACTOR	% AC
BP-2 (PG64-22)	1.960 TONS/CY	5.6
TACK COAT		
COLDMILLING	0.08 GAL/SY	
OVERLAY	0.10 GAL/SY	
PRIME LIQUID ASPHALT MC 800		
PERMANENT AGGREGATE EDGE TREATMENT	0.25 GAL/SY	
BITUMINOUS FOG SEAL		
FOG SEAL MC 800	0.20 GAL/SY	
IRREGULARITIES: 75 TONS/MI		



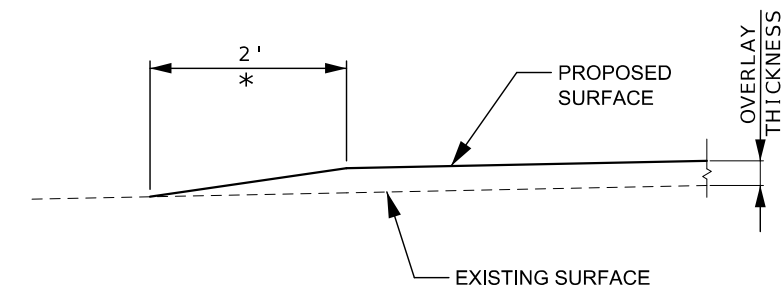
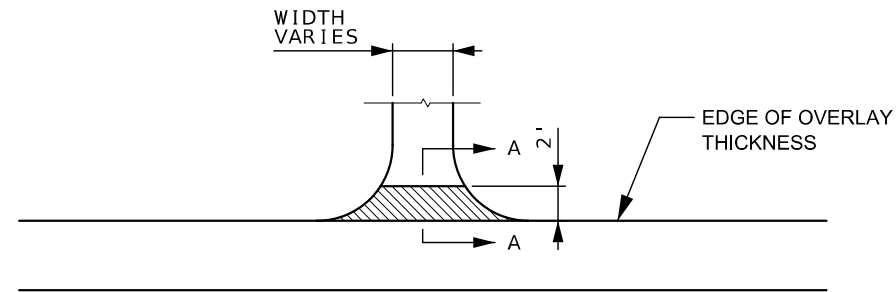
DATE PREPARED 7/28/2023	
ROUTE BU37	STATE MO
DISTRICT SW	SHEET NO. 2
COUNTY BARRY	
JOB NO. J7P3437	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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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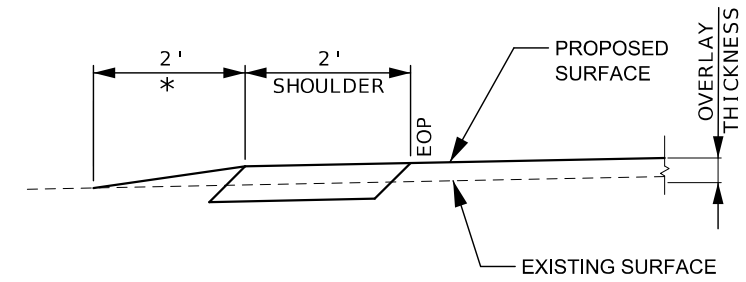
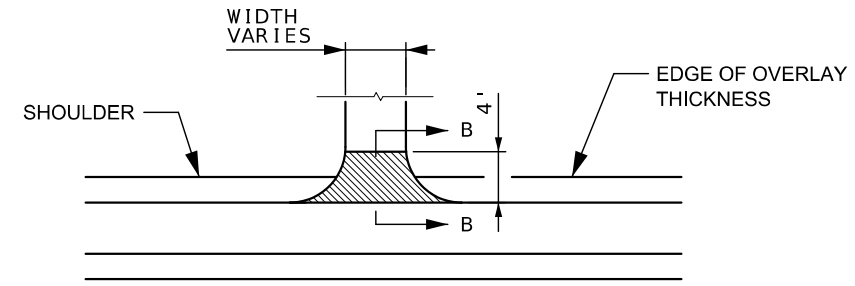


SECTION A-A

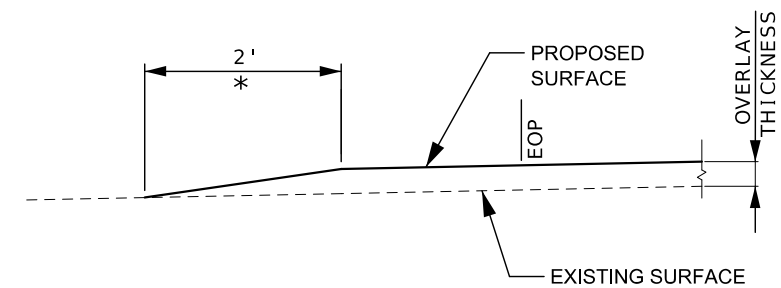
TYPICAL ENTRANCE - NO SHOULDER  
(FIELD, PRIVATE OR COUNTY ROAD)  
\*TAPER AT 1:1 FOR FIELD ENTRANCE

NOTE: 4 TONS GRAVEL A OR CRUSHED STONE  
CALCULATED PER ENTRANCE.

6 TONS CALCULATED PER COUNTY ROAD.



AGGREGATE & EARTH ENTRANCES



ASPHALT & CONCRETE ENTRANCES

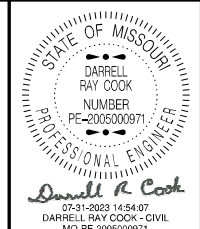
SECTION B-B

TYPICAL ENTRANCE - EXIST/NEW SHOULDER  
(FIELD, PRIVATE OR COUNTY ROAD)  
\*TAPER AT 1:1 FOR FIELD ENTRANCE

NOTES: DO NOT BUILD 2' MODIFIED A3 SHOULDERS  
ACROSS CONCRETE OR ASPHALT ENTRANCES,  
STREETS OR ROADS.

4 TONS GRAVEL A OR CRUSHED STONE B  
CALCULATED PER ENTRANCE.

6 TONS CALCULATED PER COUNTY ROAD.



DATE PREPARED  
7/28/2023  
ROUTE BU37 STATE MO  
DISTRICT SW SHEET NO. 2  
COUNTY BARRY  
JOB NO. J7P3437  
CONTRACT ID.  
PROJECT NO.  
BRIDGE NO.

DATE	DESCRIPTION

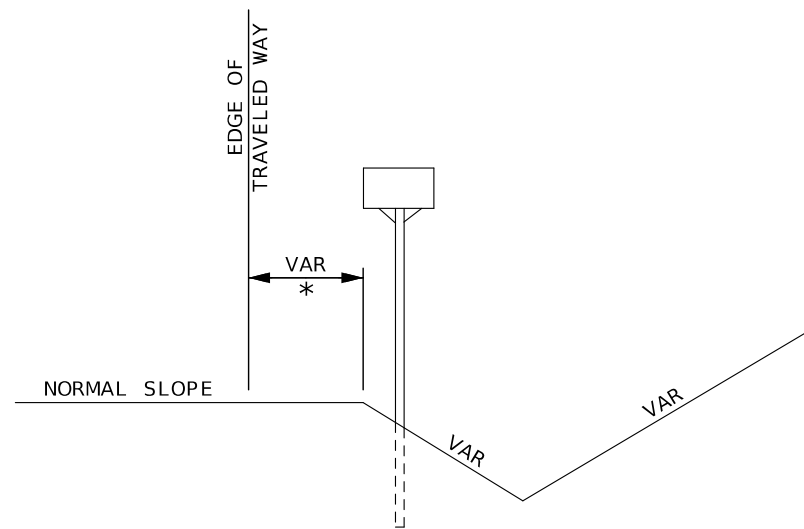
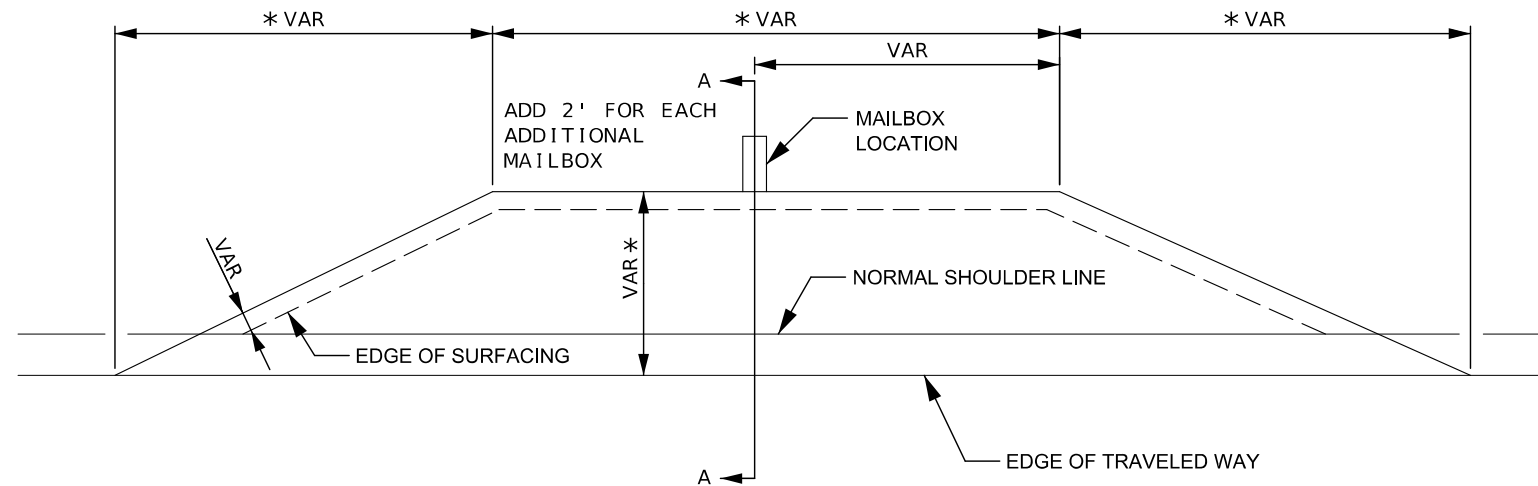
MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION  
MoDOT  
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

REVISED: 3/7/2023

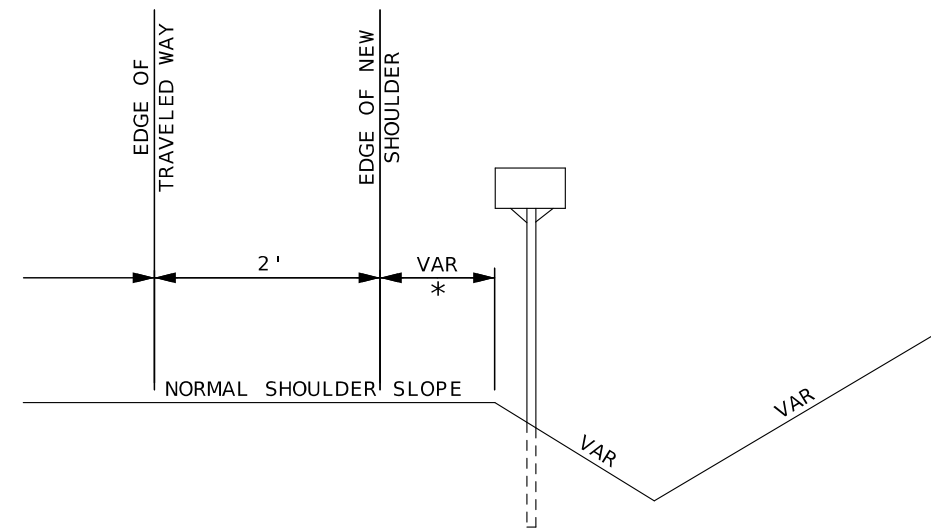
NOTE: MAILBOX TURNOUT QUANTITIES BASED ON 2' WIDTH AND 15' LENGTH. ADD 2' IN LENGTH PER ADDITIONAL MAILBOX AT SAME LOCATION, AS APPROVED BY THE ENGINEER.

### TYPICAL MAILBOX TURNOUT

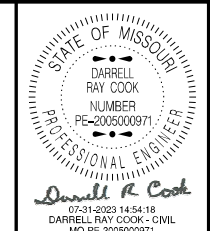
\* AS APPROVED BY THE ENGINEER



SECTION A-A  
NO SHOULDER



SECTION A-A  
SHOULDER



DATE PREPARED  
7/28/2023

ROUTE STATE  
BU37 MO

DISTRICT SHEET NO.  
SW 2

COUNTY  
BARRY

JOB NO.  
J7P3437

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

DESCRIPTION

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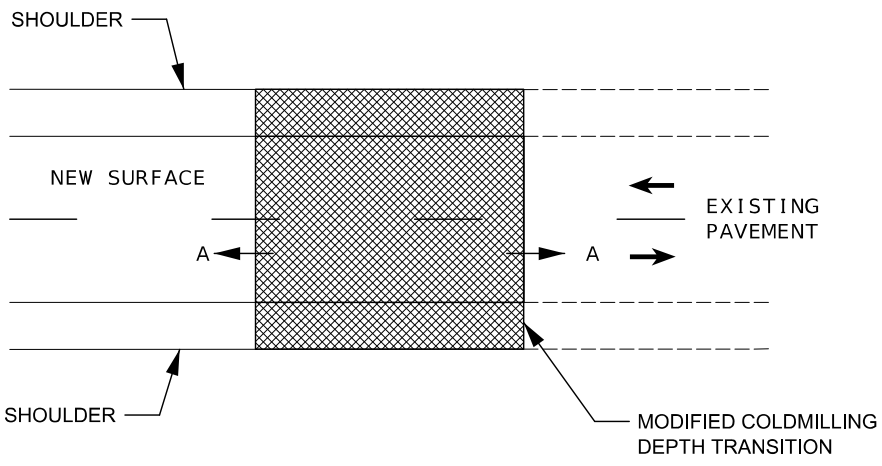
DESCRIPTION

DATE

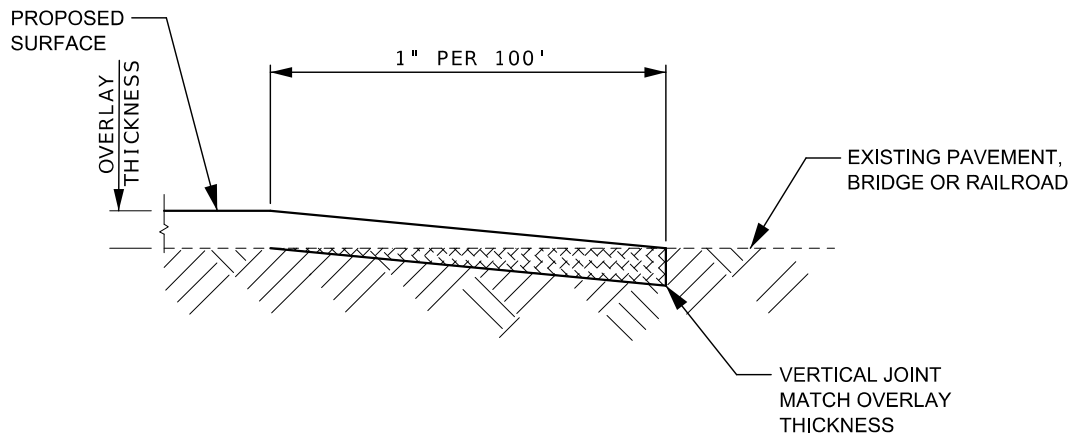
DESCRIPTION

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

REVISED: 3/7/2023



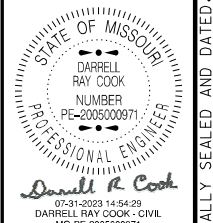
MAINLINE, BRIDGE, AND RAILROAD PLAN



SECTION A-A

TRANSVERSE JOINT TRANSITION FOR SINGLE LIFT PROJECT BEGINNING, END, BRIDGE, OR RAILROAD

NOTE: MILL EXISTING CONCRETE 1" MAXIMUM.



DATE PREPARED  
7/28/2023

ROUTE BU37	STATE MO
DISTRICT SW	SHEET NO. 2

COUNTY  
BARRY

JOB NO.  
J7P3437

CONTRACT ID.

PROJECT NO.

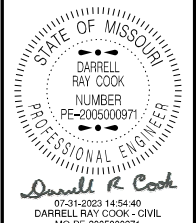
BRIDGE NO.

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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DATE PREPARED  
7/28/2023

ROUTE BU37	STATE MO
DISTRICT SW	SHEET NO. 2

COUNTY  
BARRY

JOB NO.  
J7S3437

CONTRACT ID.

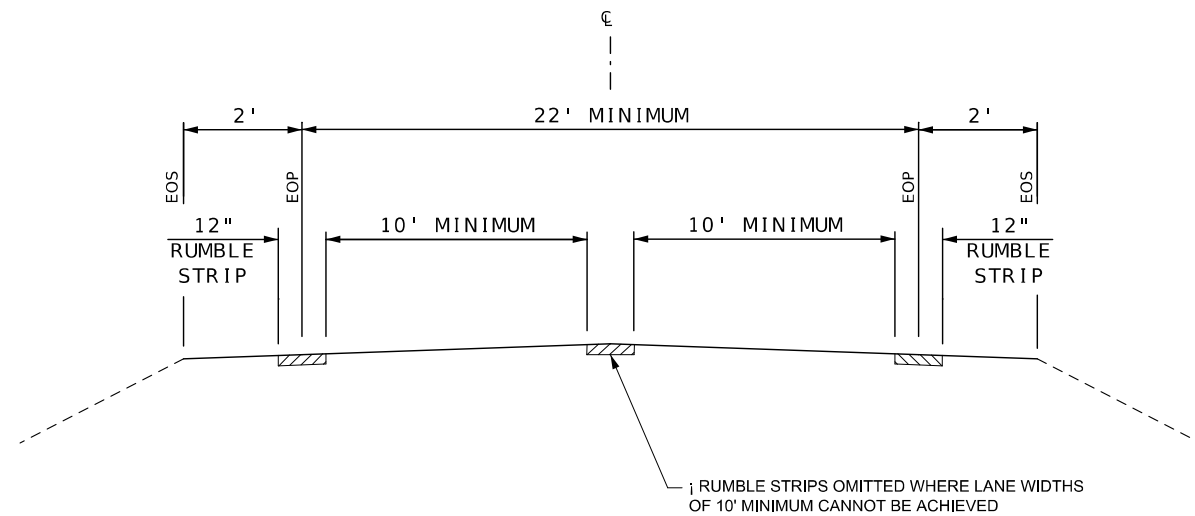
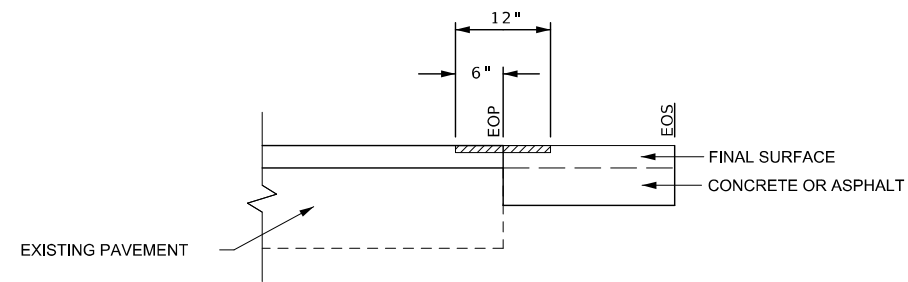
PROJECT NO.

BRIDGE NO.

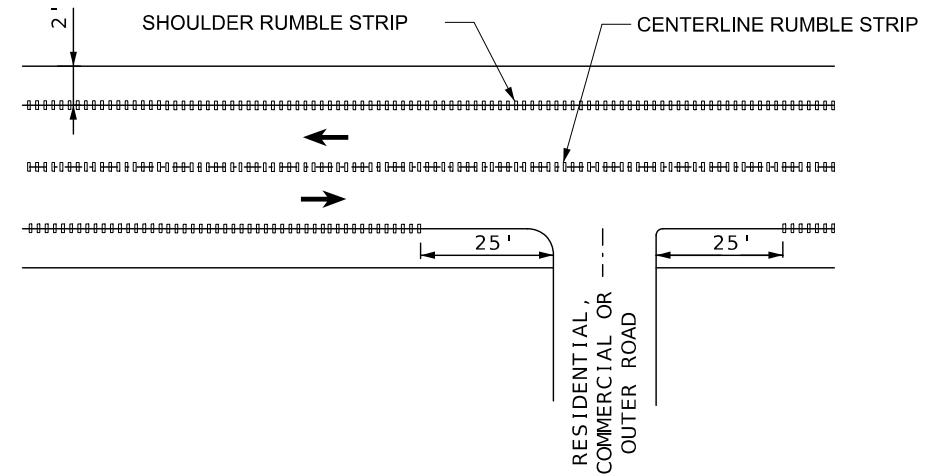
**RUMBLE STRIPS FOR 2' MODIFIED A3 SHOULDERS**

AS APPROVED BY THE ENGINEER, A 6" MINI RUMBLE STRIP MAY BE USED WHERE A 12" RUMBLE STRIP DOES NOT FIT.

**RUMBLE STRIP DETAILS**



**INTERSECTION RUMBLE STRIP LAYOUT**



DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

MOBILIZATION  
LUMP SUM = 1

CONTRACTOR FURNISHED  
STAKING & SURVEYING  
LUMP SUM = 1

1.25" ASPHALTIC CONCRETE								
LOG MILE TO MILE	LOG MILE TO MILE	LOCATION	LENGTH (FT)	WIDTH (FT)	BP-2 (PG70-22) @ 1.960 TONS/CY (TON)	TACK @ 0.08 GAL/SY (GAL)	TACK @ 0.10 GAL/SY (GAL)	REMARKS
0.011 - 0.439		BU37	2259.8	24	410.25	482.1		
0.439 - 2.694		BU37	11906.4	22	1981.36	2328.4		
2.694 - 3.302		BU37	3210.2	24	582.79		856.1	
3.302 - 3.323		BU37	110.9	32	26.84		39.4	
3.323 - 3.415		BU37	485.8	24	88.18		129.5	
					S.Y.			
					IRREGULARITIES			
3.404 MILES					255.30			75 TONS/MILE
TOTAL					3344.72	2810.5	1025.0	
USE					3344.7	3835		

PERFORMED MARKING TAPE						
LOG MILE TO MILE	LOG MILE TO MILE	LOCATION	WHITE RT/LT ARROW (EA)	30" MID BLOCKS (EA)	24" WHITE STOP BAR (LF)	REMARKS
2.904 - 2.904		BUS 37		4		CROSS WALK BAR
3.286 - 3.286		BUS 37		5		CROSS WALK BAR
3.286 - 3.286		BUS 37			12	STOP BAR
3.326 - 3.326		BUS 37	1			CROSS WALK BAR
3.346 - 3.346		BUS 37		8		CROSS WALK BAR
3.366 - 3.366		BUS 37		9		CROSS WALK BAR
TOTAL			1	26	12	
USE			1	26 *	12	

\* LM 2.982 =  
STA. 374+09.98  
@ X-WALK BU 37  
MID BLOCKS TO BE INSTALLED WITH  
ADA PROJECT J7S3242

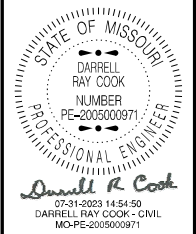
COLDMILLING							
LOG MILE TO MILE	LOG MILE TO MILE	LOCATION	LENGTH (FT)	WIDTH (FT)	3" OR LESS COLDMILLING (SY)	MODIFIED COLDMILLING (SY)	REMARKS
0.011 - 0.035		BU37	125.0	24		333.33	BEGINNING OF PROJECT
2.670 - 2.694		BU37	125.0	22		305.56	TRANS DOWN TO COLDMILL SECTION
2.694 - 3.302		BU37	3210.2	22	7847.25		1.25" COLDMILL
3.302 - 3.323		BU37	110.9	32	394.24		1.25" COLDMILL
3.323 - 3.391		BU37	360.7	24	961.95		1.25" COLDMILL
3.391 - 3.415		BU37	125.0	24		333.33	END OF PROJECT
TOTAL					9203.44	972.22	
USE					9203	972	

STANDARD PAVEMENT MARKING PAINT, TYPE P BEADS						
LOG MILE TO MILE	LOG MILE TO MILE	LOCATION	4" SOLID WHITE (FT)	4" INT. YELLOW (FT)	4" SOLID YELLOW (FT)	REMARKS
0.000 - 0.260		BUS 37	2746		2746	DOUBLE YELLOW CL
0.260 - 0.320		BUS 37	634	79		
0.320 - 0.380		BUS 37	634	79		
0.380 - 0.519		BUS 37	1468	183	734	
0.519 - 1.616		BUS 37	11584		11584	DOUBLE YELLOW CL
1.616 - 1.837		BUS 37	2334	292	1167	
1.837 - 2.317		BUS 37	5069		5069	DOUBLE YELLOW CL
2.317 - 2.577		BUS 37	2746	343	1373	
2.577 - 2.856		BUS 37	2946		2946	DOUBLE YELLOW CL
2.856 - 2.962		BUS 37	1119	140	560	
2.962 - 3.262		BUS 37	3168	396	1584	
3.262 - 3.415		BUS 37	1616		1616	DOUBLE YELLOW CL
TOTAL			36062	1513	29378	
USE			36062	30891		

PERMANENT AGGREGATE EDGE TREATMENT							
LOG MILE TO MILE	LOG MILE TO MILE	LOCATION	LENGTH (FT)	WIDTH (FT)	PERMANENT AGGREGATE TREATMENT @ 200 TONS/MILE (TONS)	PRIME MC800 @ 0.25 GAL/SY (GAL)	REMARKS
0.011 - 2.694		BUS 37	14166.24	2	268.3	787.0	LT EOS
0.011 - 2.694		BUS 37	14166.24	2	268.3	787.0	RT EOS
TOTAL					536.6	1574.0	
USE					536.6	1574	

BITUMINOUS SHOULDER RUMBLE STRIP				
LOG MILE TO MILE	LOG MILE TO MILE	LOCATION	RUMBLE STRIP (STA)	REMARKS
0.011 - 1.728		BU 37	90.7	LT EOP
0.011 - 1.728		BU 37	90.7	CENTERLINE
0.011 - 1.728		BU 37	90.7	RT EOP
TOTAL			272.0	
USE			272.0	

BITUMINOUS FOG SEAL						
LOG MILE TO MILE	LOG MILE TO MILE	LOCATION	LENGTH (FT)	WIDTH (FT)	FOG SEAL 0.20 GAL/SY (GAL)	REMARKS
2.694 - 3.415		BU 37	3806.9	8	676.8	FOG SEAL SHOULDER
TOTAL					676.8	
USE					677	



DATE PREPARED  
7/28/2023  
ROUTE BU37 STATE MO  
DISTRICT SW SHEET NO. 3

COUNTY BARRY  
JOB NO. J7P3437  
CONTRACT ID.

PROJECT NO.  
BRIDGE NO.

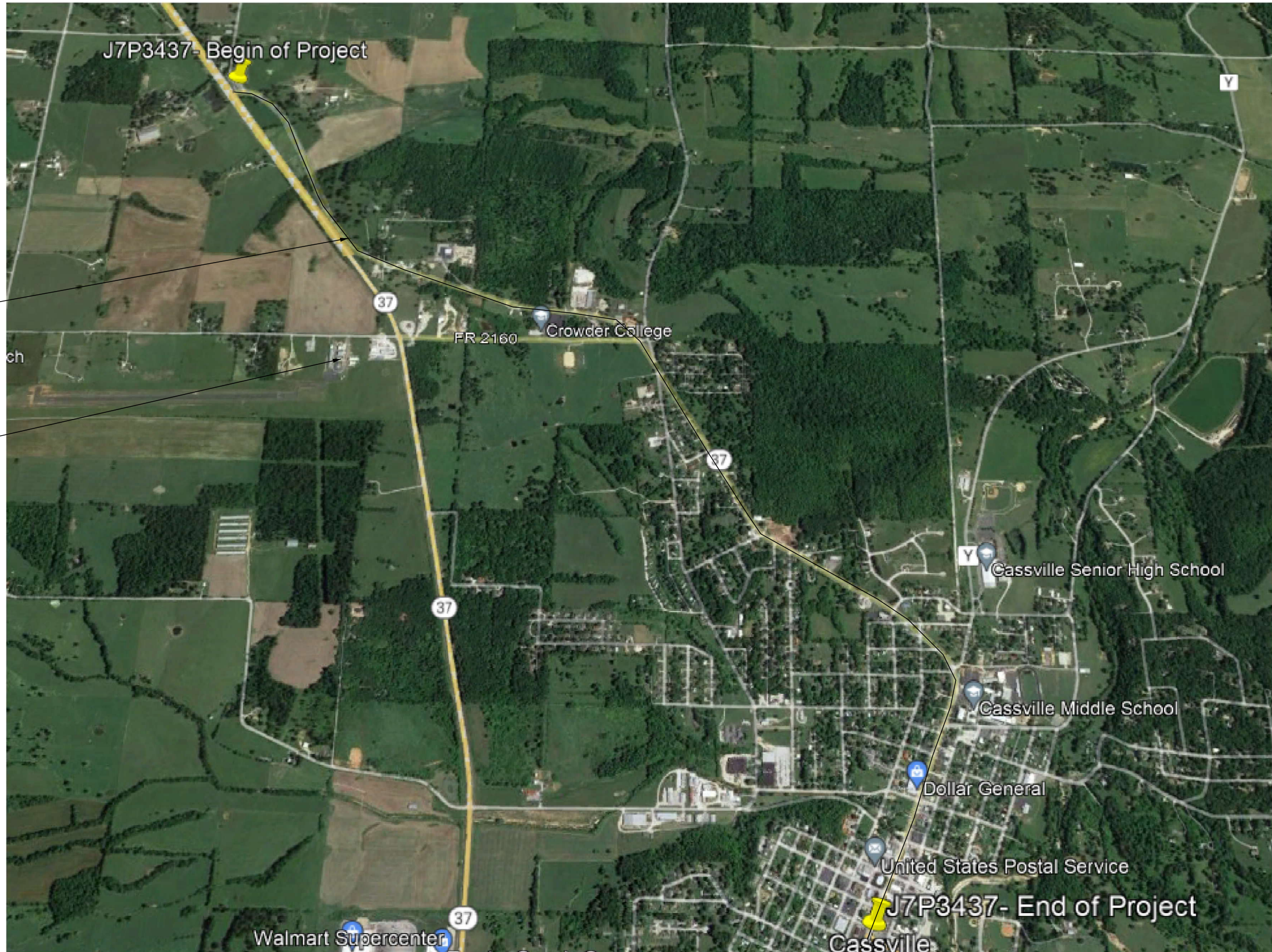
DATE	DESCRIPTION

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

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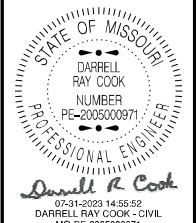


CULVERT  
K0100

CASSVILLE REGIONAL  
AIRPORT

NOT TO SCALE

SPECIAL SHEET  
SHEET 1 OF 2




DATE PREPARED  
7/28/2023

ROUTE STATE  
BU37 MO  
DISTRICT SHEET NO.  
SW 4

COUNTY  
BARRY  
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J7P3437  
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MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION  
  
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

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



J7P3434 ENDS  
 J7S3447 BEGINS

M076

M076

BU37

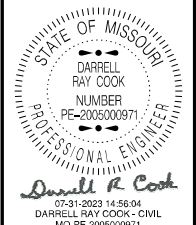
MFA Oil Petro-Card 24

Arvest Bank

Sunrise


NOT TO SCALE

SPECIAL SHEET  
 SHEET 2 OF 2



DATE PREPARED  
 7/28/2023  
 ROUTE BU37 STATE MO  
 DISTRICT SW SHEET NO. 5  
 COUNTY BARRY  
 JOB NO. J7P3437  
 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)

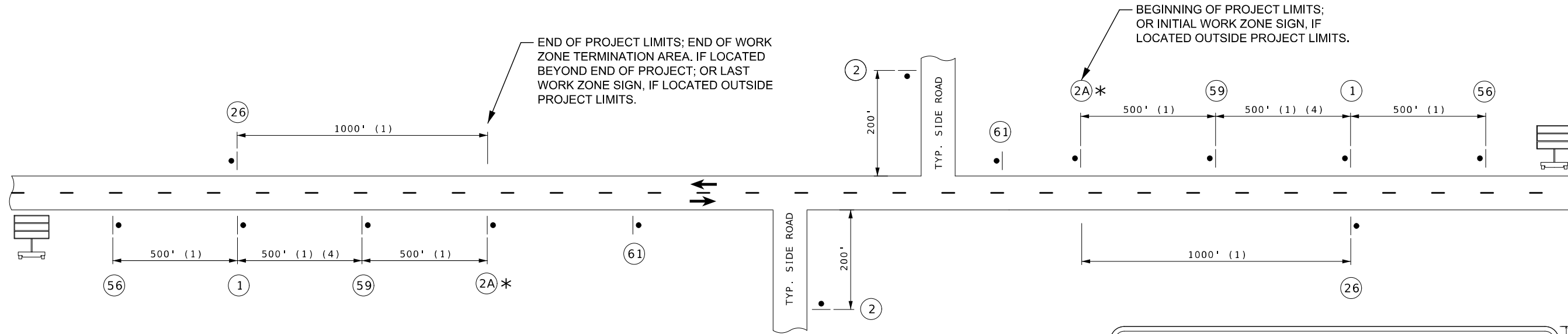
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

GENERAL NOTES:

1. ANY EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.
2. TEMPORARY SIGNING SHOWN IS FOR WORK ON ONE SIDE OF THE ROAD. FOR WORK ON THE OTHER SIDE, REVERSE ORDER OF THE SIGNS AND CHANNELIZERS.
3. SIGNING SHOWN SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
4. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER.
5. REFER TO STANDARD DRAWING 616.10, 619.10, AND 620.10 FOR ADDITIONAL DETAILS AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.
6. SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.
7. TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST.
8. NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONSTRUCTION SIGNS, OR FLASHING ARROW PANEL.
9. ALL SIGNS, EXCEPT "RATE OUR WORK ZONES" SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING PROPER TRAFFIC CONTROL SETUPS THROUGHOUT CONSTRUCTION AS DESCRIBED IN THESE PLANS OR AS APPROVED BY THE ENGINEER.
11. WHERE MINIMUM LANE WIDTHS CANNOT BE ACHIEVED ON THE SIDE STREETS, THE CONTRACTOR SHALL CLOSE HALF OF THE APPROACH AND POSITION A FLAGGER AT EACH END OF THE WORK AREA. LOCATION TO BE DETERMINED BY THE ENGINEER. ADVANCE FLAGGER SIGNING SHALL BE INSTALLED AS OUTLINED IN THE MUTCD.
12. THE CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS TO ALL BUSINESSES AND STREETS. NO STREET OR ENTRANCE SHALL BE COMPLETELY BLOCKED.
13. SPACING & DISTANCES OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD & APPROVED BY THE ENGINEER.
14. TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
15. ADJUST ADVANCE WARNING SIGN SPACING TO AVOID SIGN PLACEMENT WITHIN THE LIMITS OF THE RAILROAD RIGHT OF WAY.
16. CONTRACTOR SHALL COORDINATE WITH ADA PROJECT, JXXXXXX.

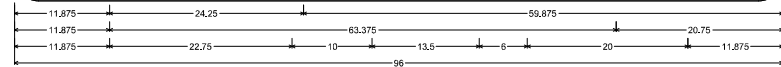
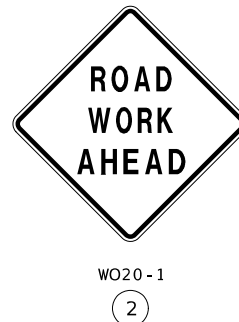
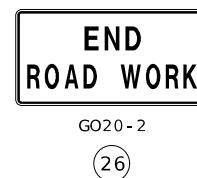
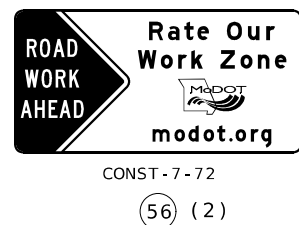
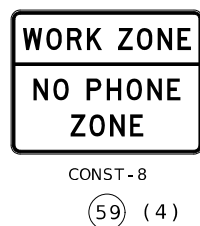
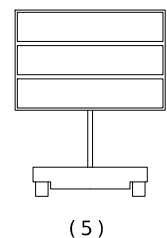


DATE PREPARED 7/28/2023	
ROUTE BU37	STATE MO
DISTRICT SW	SHEET NO. 6
COUNTY BARRY	
JOB NO. J7P3437	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



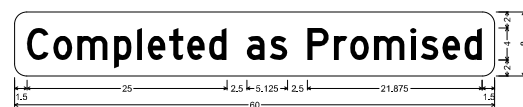
- (1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.
- (2) SIGN CONST-7-72 IS PLACED 500 FEET BEFORE THE BEGINNING OF PROJECT LIMITS OR THE ROAD WORK AHEAD SIGN OR ROAD WORK NEXT XX MILES SIGN. IF USED, WHEN THESE SIGNS ARE LOCATED OUTSIDE THE PROJECT LIMITS.
- (3) CONST-5-96 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.
- (4) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.
- (5) CMS PLACEMENT SHALL BE APPROVED BY THE ENGINEER.

TYPICAL BEGINNING AND END OF PROJECT  
(UNDIVIDED HIGHWAY)



CONST-5-96 SH-FLAT SHEET:  
3,000" Radius, 1,000" Border, White on Blue  
"Road", D, "Resurfacing", D, "Fall 2024", D:  
Table of letter and object bills

R	O	S	L	E	D	C	A	N	G
11,875	19,000	25,125	31,625						
11,875	19,000	24,875	31,375	38,500	42,875	47,250	53,750	60,375	64,250
11,875	44,625	49,000	54,250	57,125	64,125	69,250	74,625	79,750	



CONST-6P-40 SH-FLAT SHEET FLUORESCENT:  
1,500" Radius, No border, Yellow:  
"Completed as Promised" Black, D 65% spacing:  
Table of letter and object bills

C	O	M	P	L	E	D	A	S	S
1,500	4,875	7,875	12,375	15,375	16,625	19,375	21,500	24,250	29,000
	36,625	39,875	41,875	44,875	49,500	50,750	53,500	56,250	

NOT TO SCALE

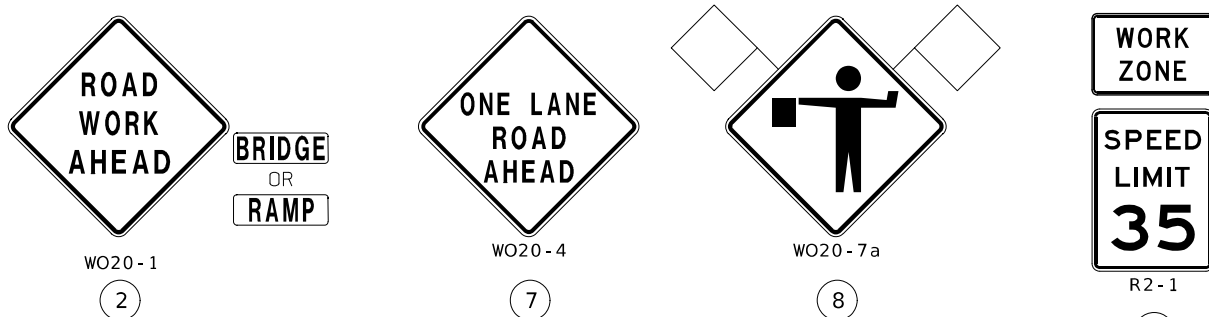
TRAFFIC CONTROL SHEET 1 OF 5

DATE	DESCRIPTION

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

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

REVISED: 5/11/2023

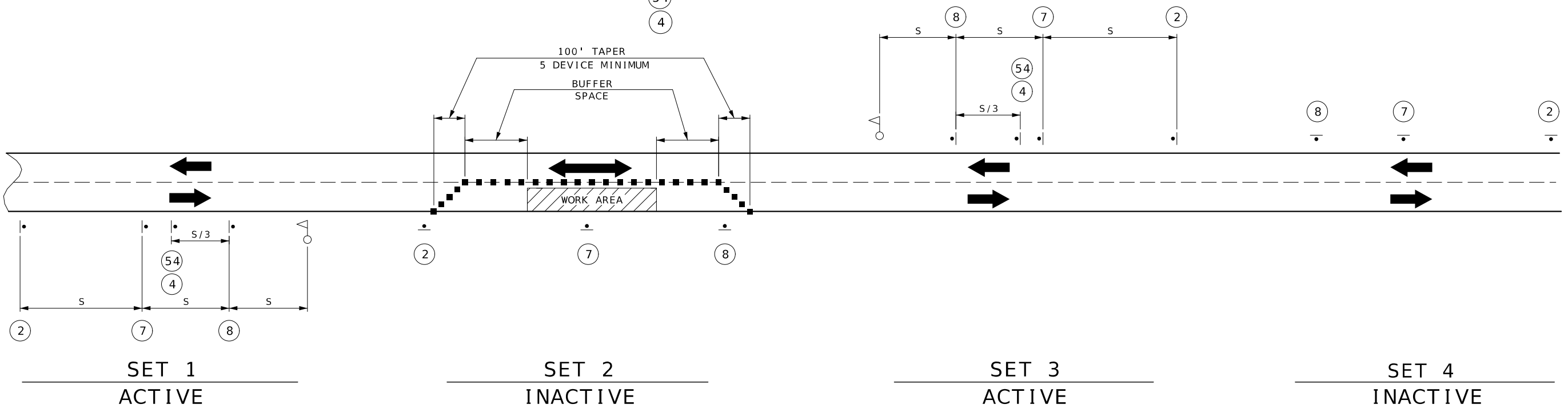


WORK ZONE SPEED LIMIT = 35 MPH

PLOT CAR FOLLOW ME  
GO20-4

(53)

SIGN 53, "PILOT CAR FOLLOW ME" SHALL BE IN CONTRACTOR'S RESPONSIBILITY WHEN IN USE DURING OPERATION.



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

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

FLAG ASSEMBLIES FOR SIGN W020-7a ARE SUBSIDIARY TO THE SIGN.

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)	CHANNELIZER SPACING (FT)	OPTIONAL
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)	BUFFER/WORK AREAS	BUFFER LENGTH (FT)
0-35	200	40	280
40-45	350	80	400
50-55	500	80	560
60-70	1000	120	840

SPACING NOTES:

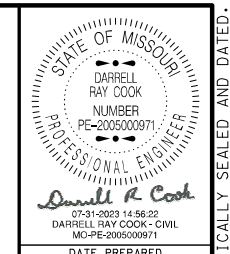
- (1) SPACING BETWEEN SIGNS, BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER OR SIGNED CONDITION.

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS, AS APPROVED BY ENGINEER.

MOVING FLAGGER OPERATION  
(UNDIVIDED HIGHWAY)

NOT TO SCALE

TRAFFIC CONTROL  
SHEET 2 OF 5



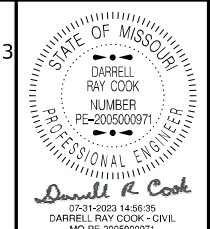
DATE PREPARED: 7/28/2023  
 ROUTE: BU37 STATE: MO  
 DISTRICT: SW SHEET NO.: 7  
 COUNTY: BARRY  
 JOB NO.: J7P3437  
 CONTRACT ID.:  
 PROJECT NO.:  
 BRIDGE NO.:

DATE	DESCRIPTION



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

# SIDE ROADS ENTERING WORK ZONES



DATE PREPARED  
7/28/2023

ROUTE STATE  
BU37 MO

DISTRICT SHEET NO.  
SW 8

COUNTY  
BARRY

JOB NO.  
J7P3437

CONTRACT ID.

SPEED	SIGN SPACING (FT.)	
	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

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

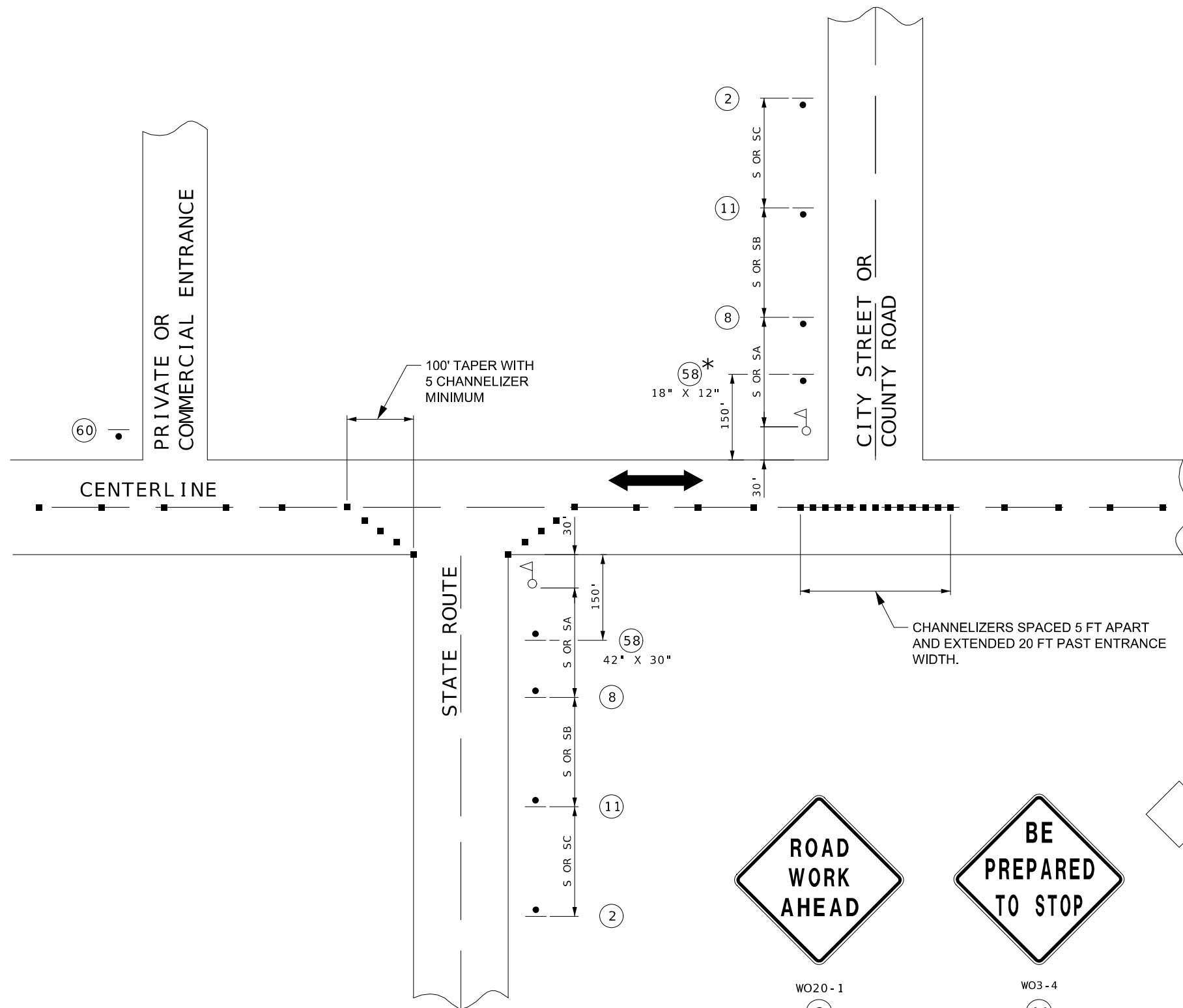
NOTES:  
WARNING SIGNS SHALL BE ERECTED AT EACH INTERSECTION WITH ANOTHER STATE HIGHWAY WITHIN THE WORK ZONE.

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

■ - CHANNELIZERS

△ - FLAGGER

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



GO20-4a  
58

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.).



24" X 18"  
60

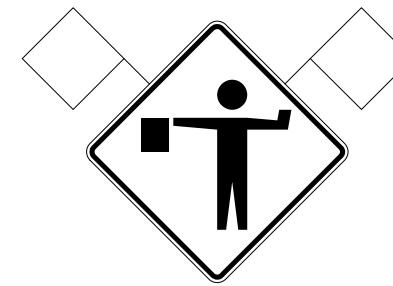
SHALL ONLY BE USED AT PRIVATE AND COMMERCIAL ENTRANCES. SEE STD PLAN 616.10



WO20-1  
2



WO3-4  
11



WO20-7a  
8

NOT TO SCALE

TRAFFIC CONTROL  
SHEET 3 OF 5

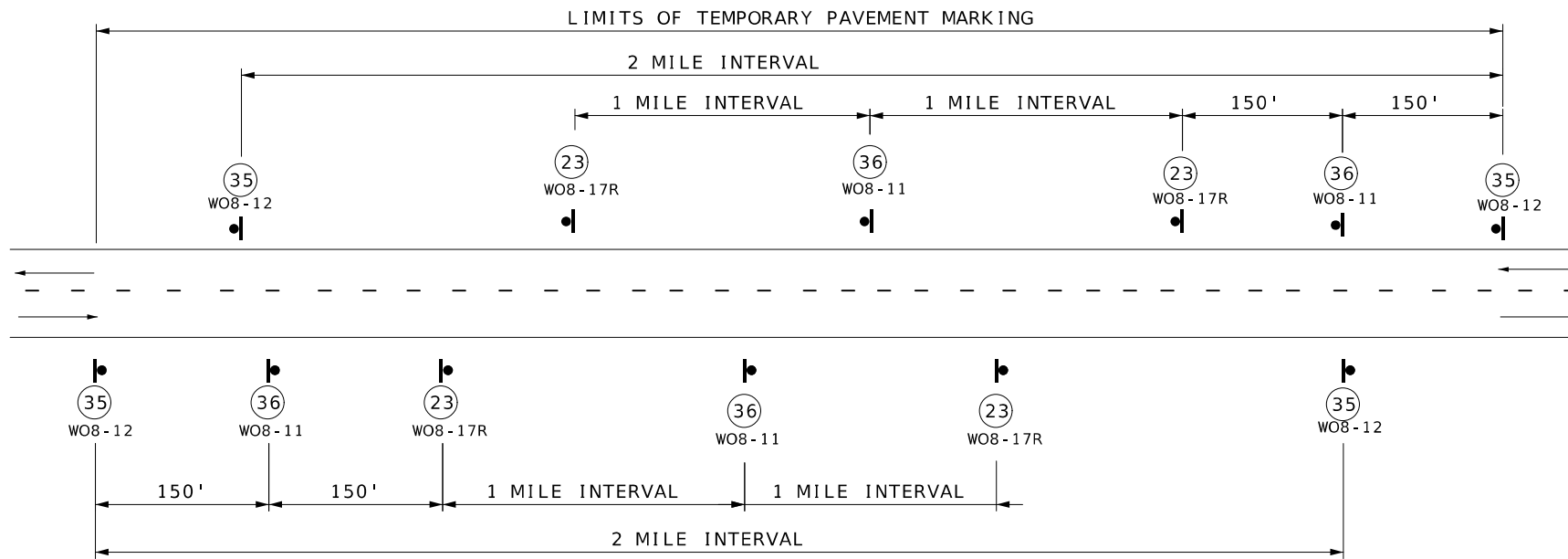
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

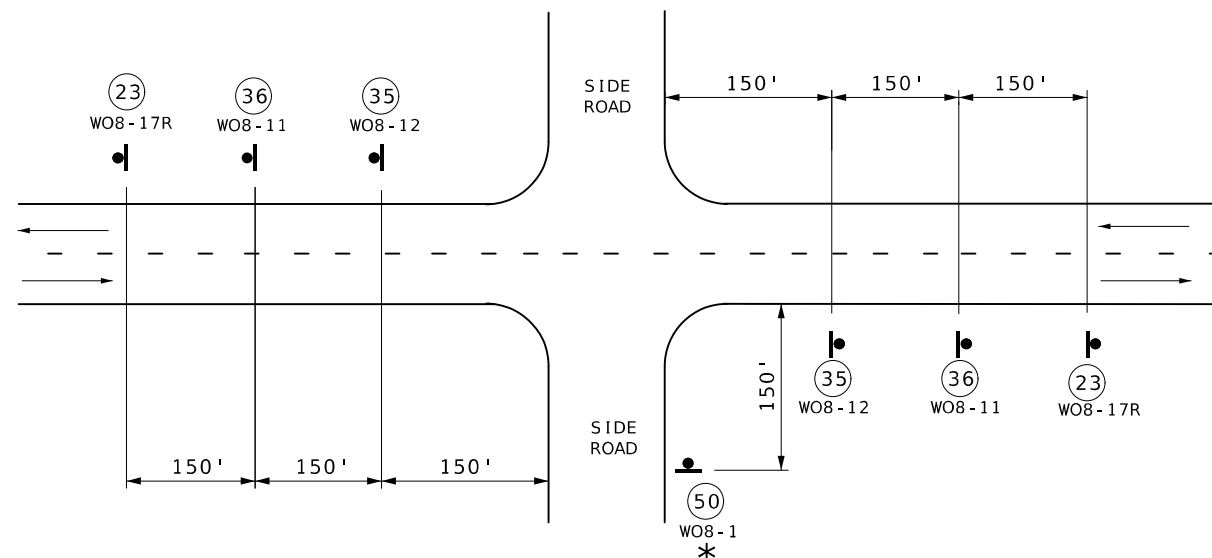
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

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



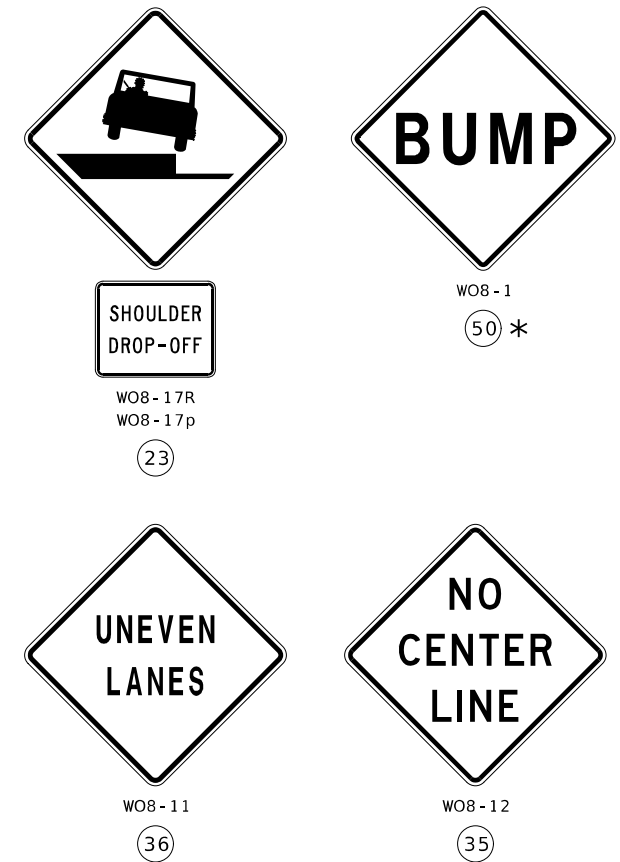
### SIGN SPACING FOR MAINLINE

(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 SIGNS 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 SIDE ROAD INTERSECTIONS

\* BUMP SIGN SHOULD BE IN ACCORDANCE WITH STANDARD PLAN 619.10.  
 UNLESS REQUIRED BY STANDARD PLAN 619.10, BUMP SIGN AT CONTRACTOR'S EXPENSE, NO DIRECT PAY. SEE STANDARD SPECIFICATION 622.2.4.



#### GENERAL NOTES:

FOR DETAILS OF TEMPORARY PAVEMENT MARKING, SEE STD. 620.10, SHEET 1 OF 5.

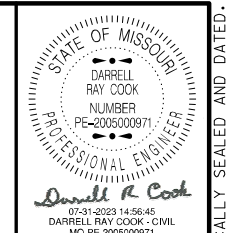
SIGN (35) AND TEMPORARY PAVEMENT MARKING INSTALLED WHERE CENTERLINE STRIPING HAS BEEN COVERED OR REMOVED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE PERMANENT CENTERLINE PAVEMENT MARKINGS ARE IN PLACE. SIGNS SHALL BE COVERED OR REMOVED WHEN PAVEMENT CENTERLINE MARKING HAS BEEN INSTALLED.

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.

WHEN SHOULDER DROP-OFF SIGNS ARE IN PLACE FOR GREATER THAN THREE DAYS, THE SHOULDER DROP-OFF PLAQUE SHOULD BE USED IN ADDITION WITH THE SHOULDER DROP-OFF SIGN.

FOR BRIDGE EXCEPTIONS AND COLDMILLED AREAS, LOCATION OF SIGN (50) TO BE APPROVED BY THE ENGINEER. UNLESS REQUIRED BY STANDARD PLAN 619.10, SIGN (50) AT CONTRACTOR'S EXPENSE, NO DIRECT PAY. SEE STANDARD SPECIFICATION 622.2.4.



DATE PREPARED  
7/28/2023  
 ROUTE BU37 STATE MO  
 DISTRICT SW SHEET NO. 9  
 COUNTY BARRY  
 JOB NO. J7P3437  
 CONTRACT ID.  
 PROJECT NO.  
 BRIDGE NO.

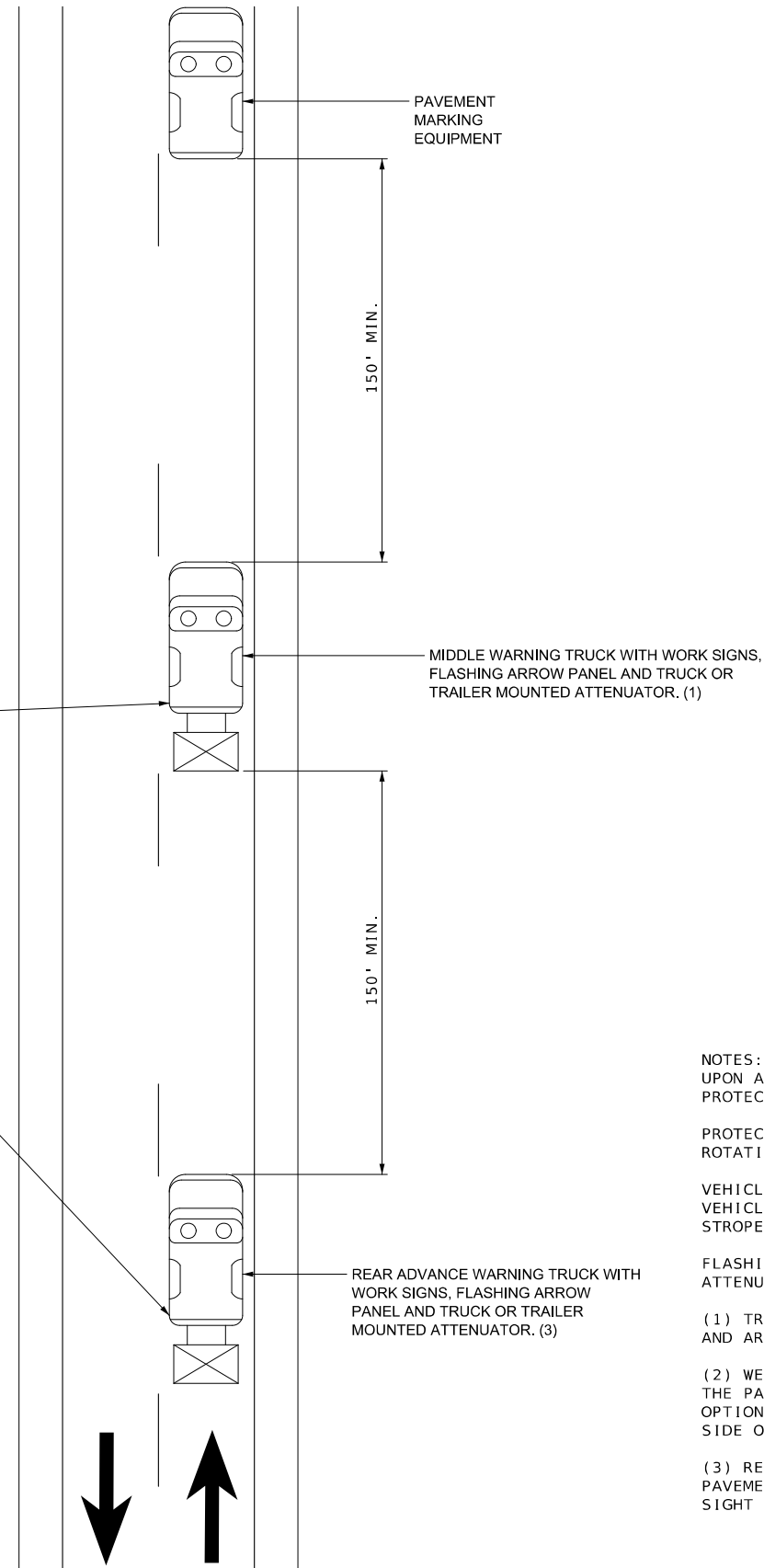
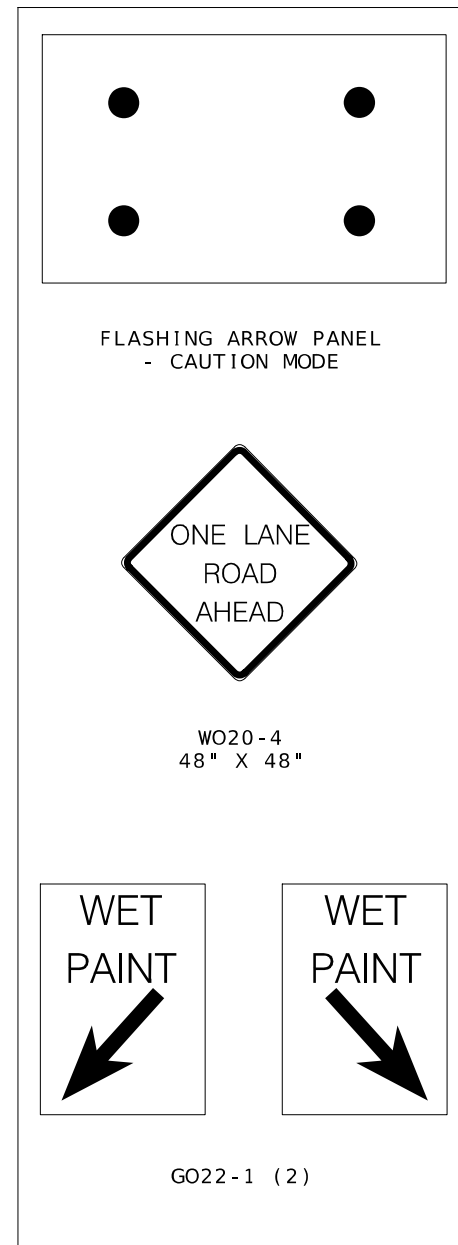
DESCRIPTION	DATE

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

NOT TO SCALE

TRAFFIC CONTROL SHEET 4 OF 5

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



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 AND SIGNS 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.

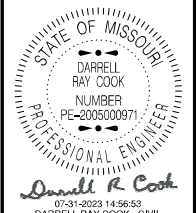
(2) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.

(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.

NOT TO SCALE

CENTERLINE/EDGELINE STRIPING ON TWO-LANE HIGHWAYS

TRAFFIC CONTROL  
SHEET 5 OF 5



DATE PREPARED 7/31/2023	
ROUTE BU37	STATE MO
DISTRICT SW	SHEET NO. 10
COUNTY BARRY	
JOB NO. J7P3437	
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)

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



DESIGN DESIGNATION

MO 76

A.A.D.T. - 2023 = 2,230

A.A.D.T. - 2043 = 2,711

D.H.V. = 8%

T = 12%

V = 55, 35, 25 M.P.H.

D = 50.2% / 49.8%

FUNCTIONAL CLASSIFICATION- MINOR ARTERIAL

BUS 37

A.A.D.T. - 2023 = 12,550

A.A.D.T. - 2043 = 13,192

D.H.V. = 8%

T = 6%

V = 55, 35, 25 M.P.H.

D = 50.9% / 49.1%

FUNCTIONAL CLASSIFICATION- MAJOR COLLECTOR

NO NEW RIGHT-OF-WAY REQUIRED

CONVENTIONAL SYMBOLS

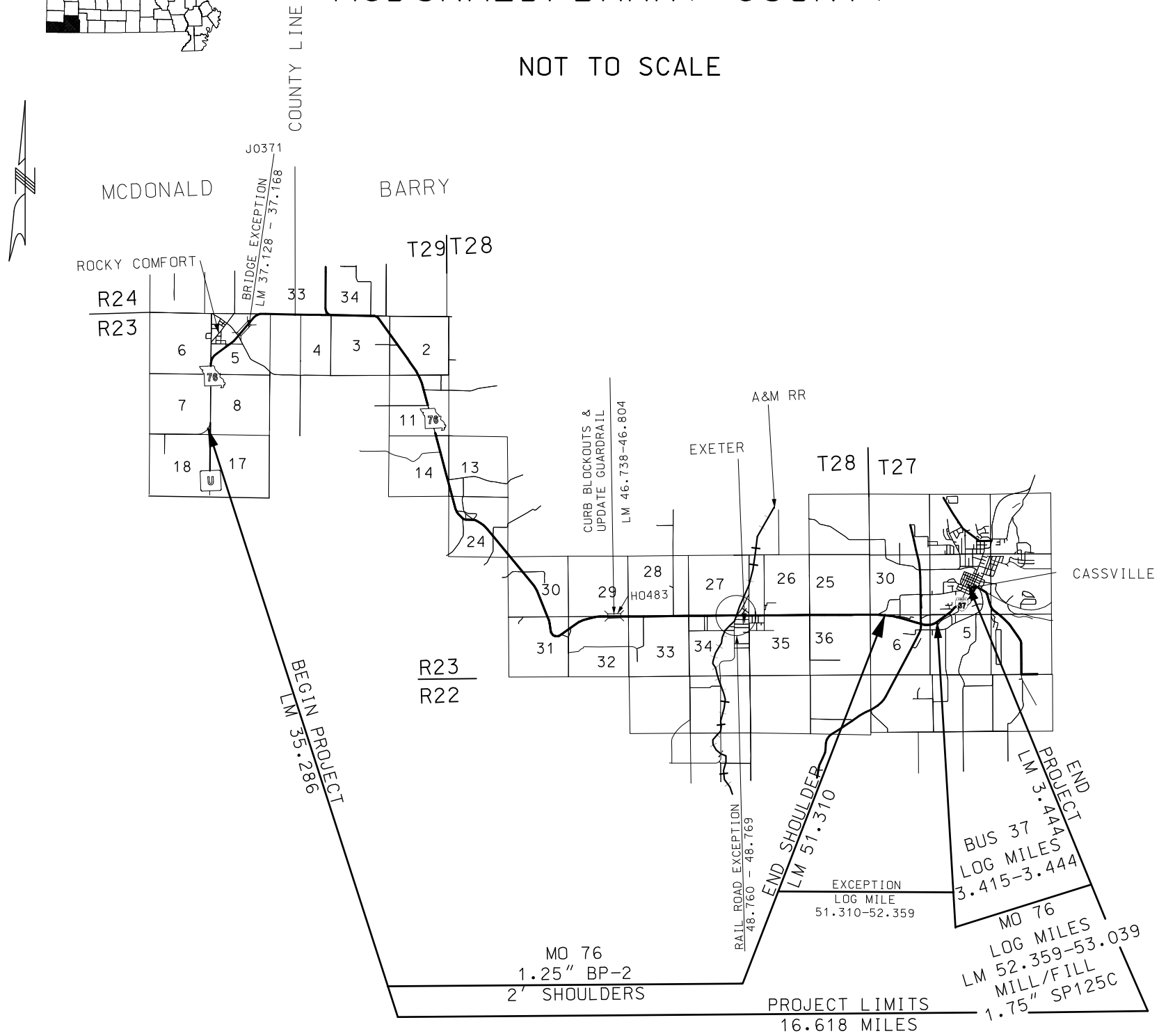
(USED IN PLANS)

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

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
 PLANS FOR PROPOSED  
 STATE HIGHWAY  
 MCDONALD/BARRY COUNTY

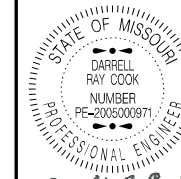
NOT TO SCALE



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

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QUANTITIES (QU) (4 SHEETS)-----	3
SPECIAL SHEETS (SS)-----	4-7
TRAFFIC CONTROL SHEETS (TC)-----	8-13
SIGNING (SN)-----	14
BRIDGE DRAWINGS (B)	
J0371-----	1-2



DATE PREPARED 7/28/2023

ROUTE 76/BU37 STATE MO

DISTRICT SW SHEET NO. 1

COUNTY MCDONALD/BARRY

JOB NO. J7S3447

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

LENGTH OF PROJECT

<b>ROUTE 76</b>	
BEGINNING OF PROJECT	LM. 35.286
END OF PROJECT	LM. 53.039
APPARENT LENGTH	93735.84 FEET
EQUATIONS AND EXCEPTIONS:	LM 37.128- 37.168
	LM 46.738- 46.804
	LM 48.760- 48.769
	LM 51.310- 52.359
<b>ROUTE BUS 37</b>	
BEGINNING OF PROJECT	LM. 3.415
END OF PROJECT	LM. 3.444
APPARENT LENGTH	153.12 FEET
TOTAL CORRECTIONS	6145.92 FEET
NET LENGTH OF PROJECT	87743.04 FEET
STATE LENGTH	16.618 MILES
FOR INFORMATION ONLY	
ESTIMATED DISTURBED ACRES	7.7 ACRES

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

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

NOTES: AS APPROVED BY THE ENGINEER, THE 2' MODIFIED A3 SHOULDER MAY BE REDUCED TO 1' MINIMUM WIDTH IN SPECIFIC AREAS BASED ON EXISTING FIELD CONDITIONS. THE MODIFIED TYPE A3 SHOULDER SHALL NOT BE BUILT IN AREAS WHERE THE EXISTING SLOPE, GUARDRAIL, OR CULVERT HEADWALLS DO NOT PERMIT. SEE JOB SPECIAL PROVISIONS.

IF THE CONTRACTOR ELECTS TO USE CONCRETE FOR THE SHOULDERS, THE QUANTITY OF ASPHALT AND TACK SHALL BE ADJUSTED IN ACCORDANCE WITH THE JOB SPECIAL PROVISION-OPTIONAL SHOULDER.

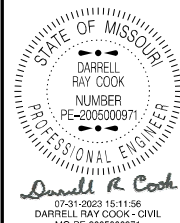
SHOULDER GRADING CONFINED TO FORESLOPE.

LANE WIDTH NOTED IS TYPICAL LANE WIDTH. ADJUST PAVING WIDTHS TO EXISTING FIELD CONDITIONS.

SURFACE PLACEMENT - ONE PASS PER LANE

NO S.E. CORRECTION

ASPHALT FACTORS		
	COMBINED FACTOR	% AC
BP-2 (PG64-22)	1.960 TONS/CY	5.6
BP-1 (PG64-22)	1.965 TONS/CY	5.2
SP125C (PG70-22)	1.970 TONS/CY	5.4
TACK COAT		
OVERLAY	0.08 GAL/SY	
MILLING	0.10 GAL/SY	
PRIME LIQUID ASPHALT MC 800		
PERMANENT AGGREGATE EDGE TREATMENT	0.25 GAL/SY	
BITUMINOUS FOG SEAL		
FOG SEAL	0.20 GAL/SY	
IRREGULARITIES: 75 TONS/MI		



DATE PREPARED  
7/28/2023

ROUTE 76/BU37 STATE MO

DISTRICT SW SHEET NO. 2

COUNTY MCDONALD/BARRY

JOB NO. J7S3447

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

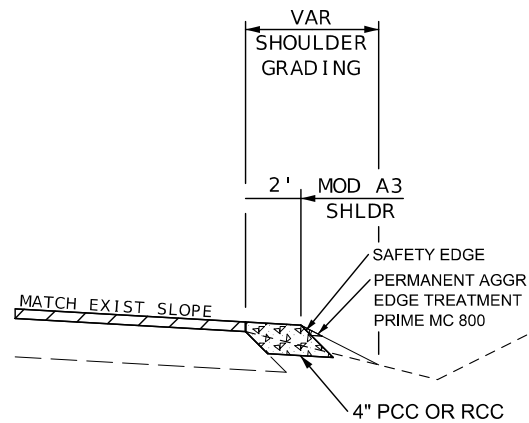
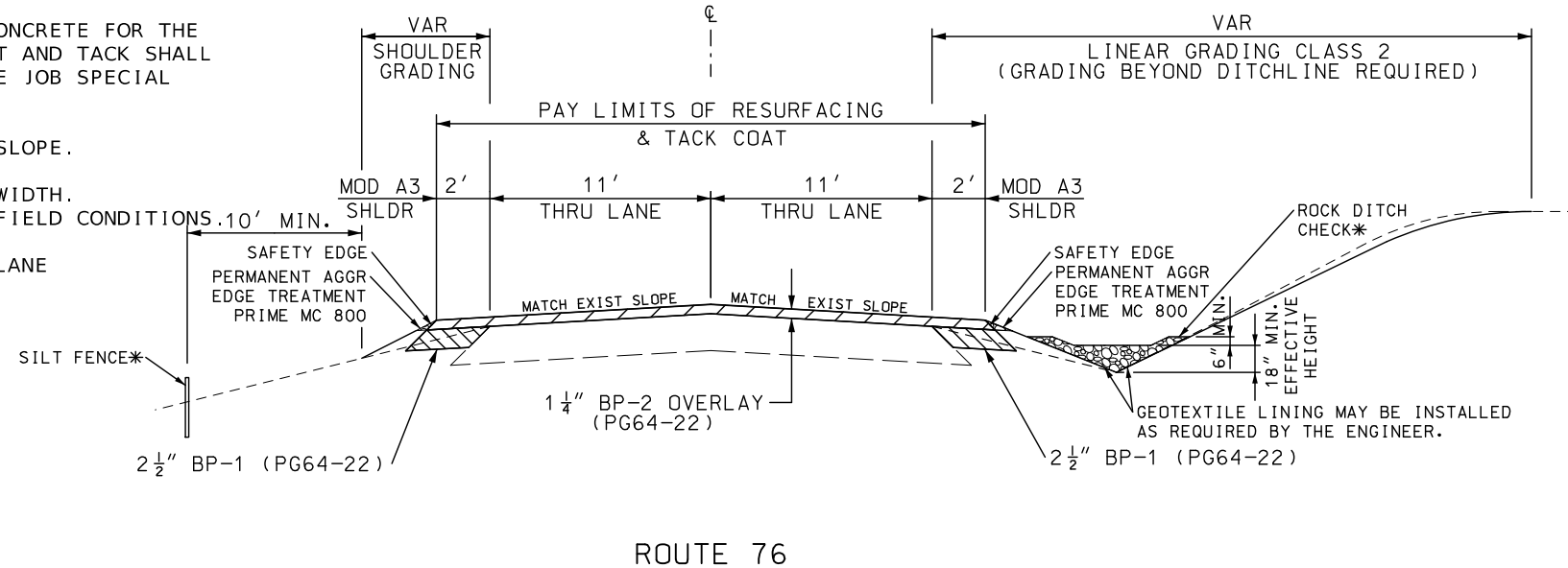
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

MoDOT

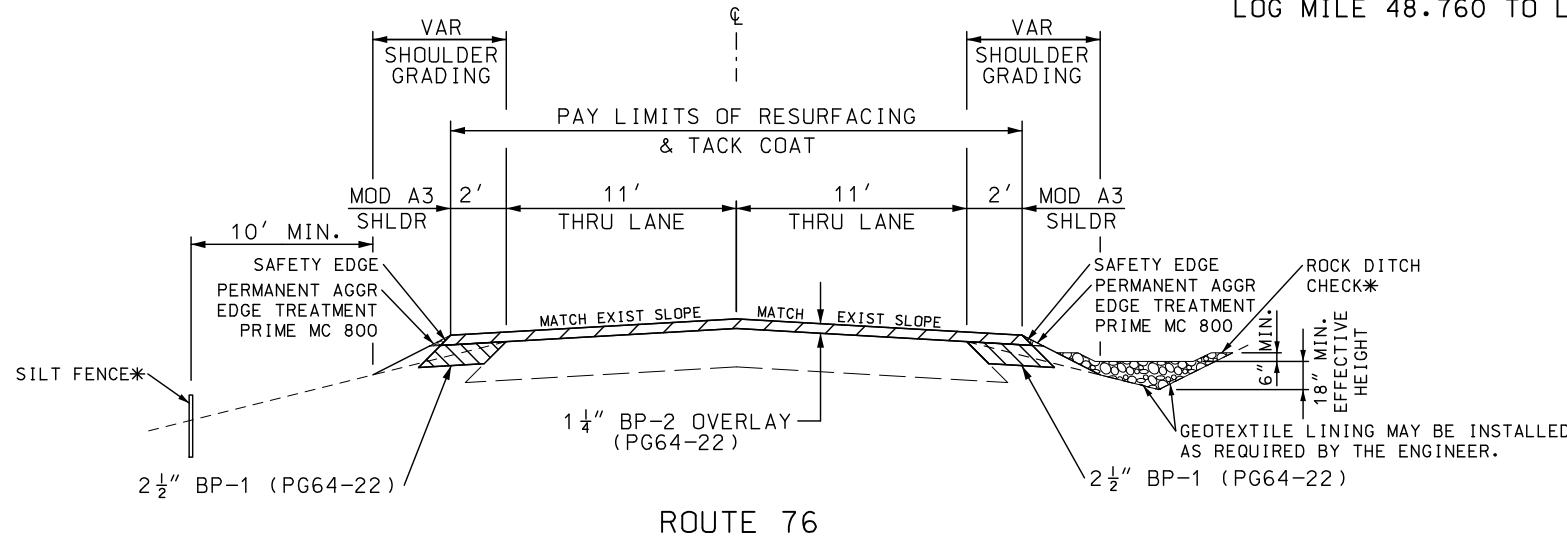
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



CONCRETE SHOULDERS

ROUTE 76  
LOG MILE 35.286 TO LOG MILE 37.128  
LOG MILE 37.168 TO LOG MILE 46.738  
LOG MILE 46.804 TO LOG MILE 48.760

EXCEPTIONS:  
LOG MILE 37.128 TO LOG MILE 37.168 - BRIDGE J0371  
LOG MILE 46.738 TO LOG MILE 46.804 - BRIDGE H0483  
LOG MILE 48.760 TO LOG MILE 48.769 - RR CROSSING



ROUTE 76  
LOG MILE 48.769 TO LOG MILE 51.310

ROUTE 86 \*\*

LOG MILE 45.659 TO LOG MILE 45.669

\*\* NOTE:  
SEE SPECIAL SHEET 2  
FOR RTE. 86 OVERLAYING

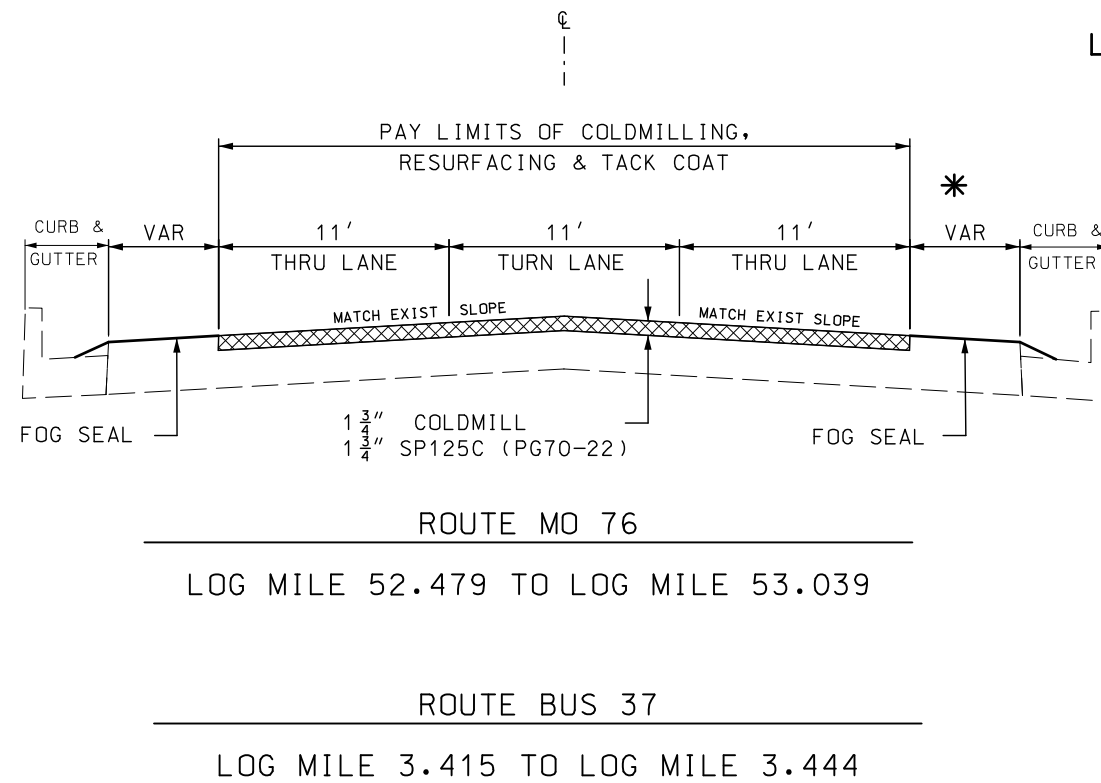
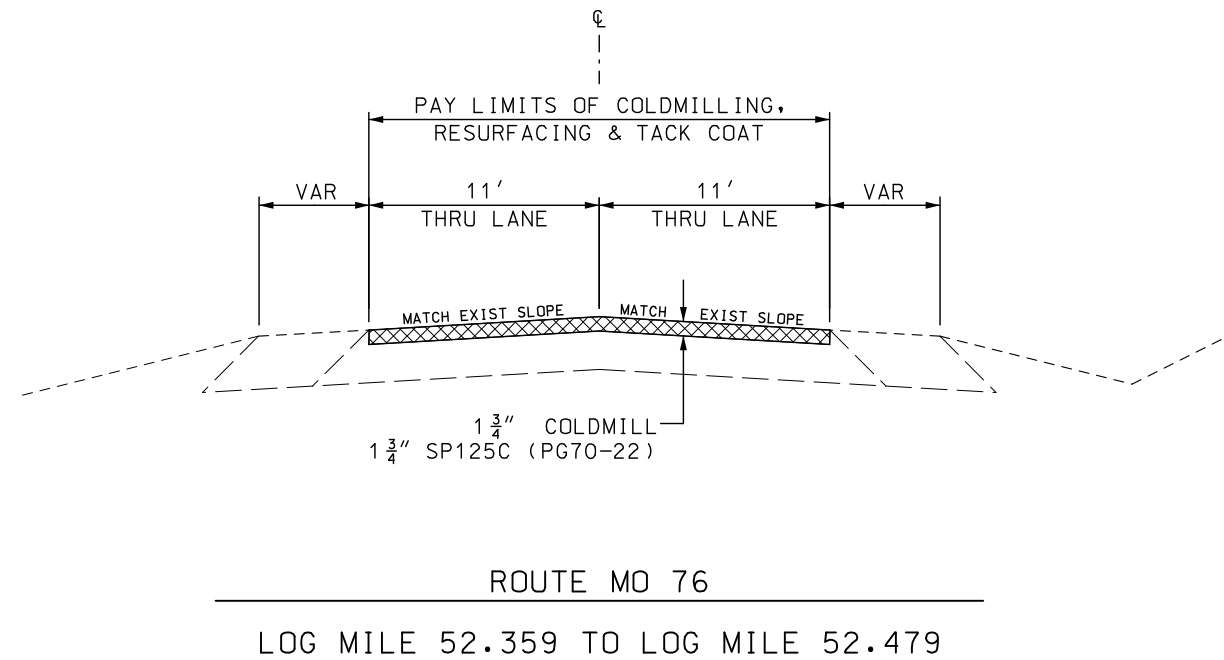
\* AT LOCATIONS SHOWN ON THE QUANTITY SHEETS. ALL DEVICES WILL BE INSTALLED AS NECESSARY AT THE DISCRETION OF THE ENGINEER.

NOTES: LANE WIDTH NOTED IS TYPICAL LANE WIDTH.  
ADJUST PAVING WIDTHS TO EXISTING FIELD CONDITIONS.

NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL  
COLDMILLING (UP TO 3") REQUIRED TO REMOVE ENTIRE  
TOP LIFT DUE TO DELAMINATION. THIS APPLIES TO  
ENTIRE PROJECT LIMITS.

SURFACE PLACEMENT - ONE PASS PER LANE

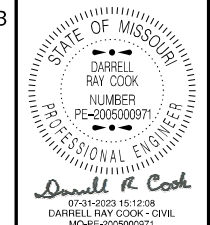
NO S.E. CORRECTION



EXCEPTION:  
LOG MILE 51.310 TO LOG MILE 52.359

\* NOTE:  
FROM 53.011-53.039  
RIGHT TURN LANE  
11' WIDE

ASPHALT FACTORS		
	COMBINED FACTOR	% AC
BP-2 (PG64-22)	1.960 TONS/CY	5.6
BP-1 (PG64-22)	1.965 TONS/CY	5.2
SP125C (PG70-22)	1.970 TONS/CY	5.4
TACK COAT		
OVERLAY	0.08 GAL/SY	
MILLING	0.10 GAL/SY	
PRIME LIQUID ASPHALT MC 800		
PERMANENT AGGREGATE	0.25 GAL/SY	
BITUMINOUS FOG SEAL		
FOG SEAL	0.20 GAL/SY	
IRREGULARITIES: 75 TONS/MI		



DATE PREPARED  
7/28/2023

ROUTE 76/BU37 STATE MO  
DISTRICT SW SHEET NO. 2

COUNTY MCDONALD/BARRY  
JOB NO. J7S3447

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE	DESCRIPTION

DATE

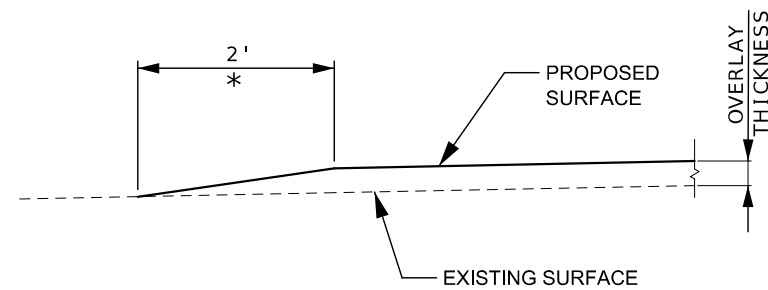
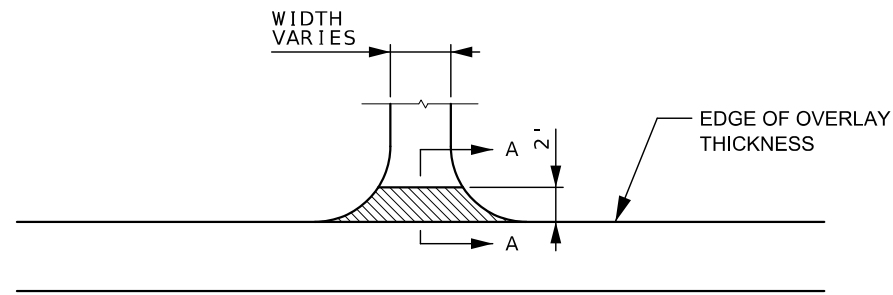
DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TYPICAL SECTIONS  
SHEET 2 OF 7

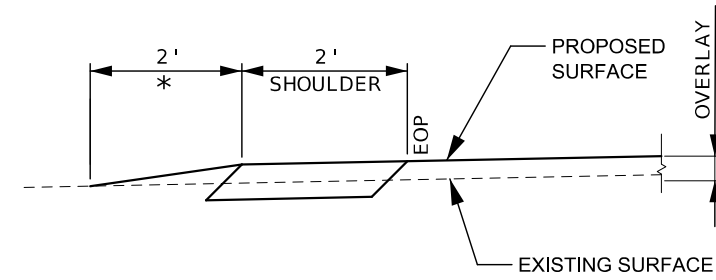
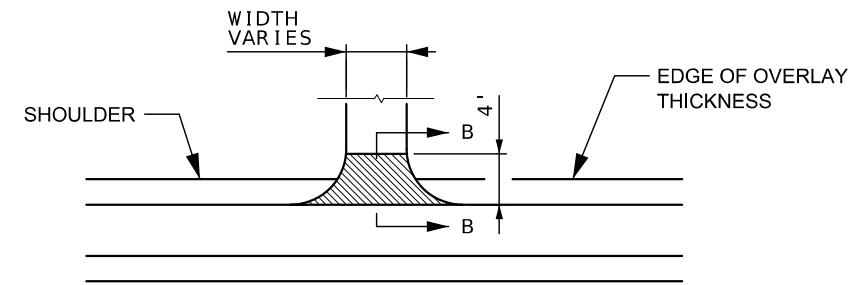
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



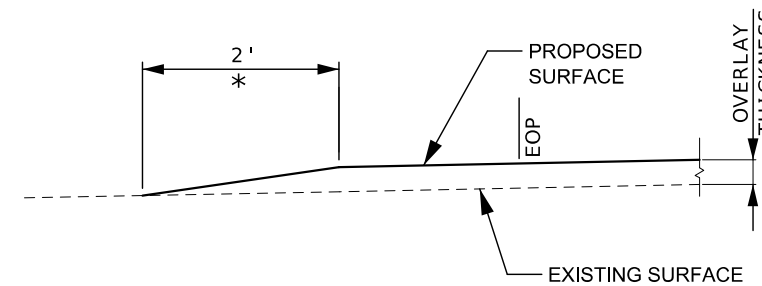
SECTION A-A

TYPICAL ENTRANCE - NO SHOULDER  
(FIELD, PRIVATE OR COUNTY ROAD)  
\*TAPER AT 1:1 FOR FIELD ENTRANCE

NOTE: 4 TONS GRAVEL A OR CRUSHED STONE  
CALCULATED PER ENTRANCE.  
6 TONS CALCULATED PER COUNTY ROAD.



AGGREGATE & EARTH ENTRANCES



ASPHALT & CONCRETE ENTRANCES

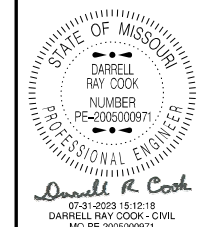
SECTION B-B

TYPICAL ENTRANCE - EXIST/NEW SHOULDER  
(FIELD, PRIVATE OR COUNTY ROAD)  
\*TAPER AT 1:1 FOR FIELD ENTRANCE

NOTES: DO NOT BUILD 2' MODIFIED A3 SHOULDERS  
ACROSS CONCRETE OR ASPHALT ENTRANCES,  
STREETS OR ROADS.

4 TONS GRAVEL A OR CRUSHED STONE B  
CALCULATED PER ENTRANCE.

6 TONS CALCULATED PER COUNTY ROAD.



DATE PREPARED  
7/28/2023

ROUTE STATE  
76/BU37 MO

DISTRICT SHEET NO.  
SW 2

COUNTY  
MCDONALD/BARRY

JOB NO.  
J7S3447

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

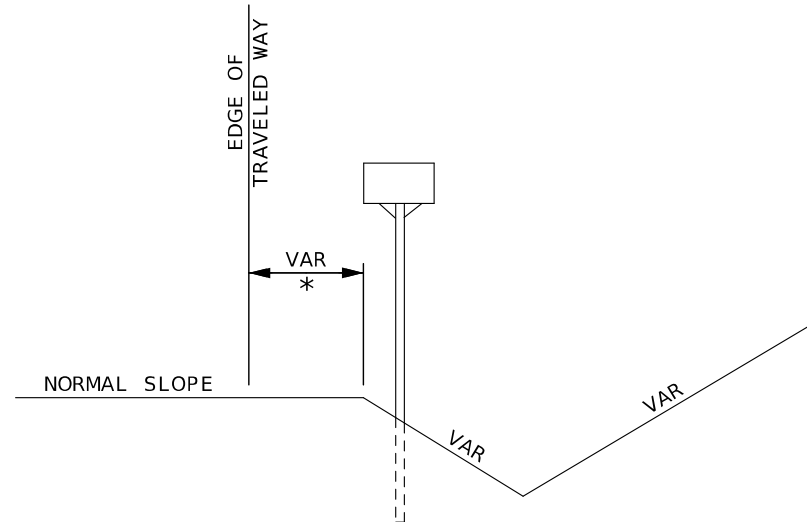
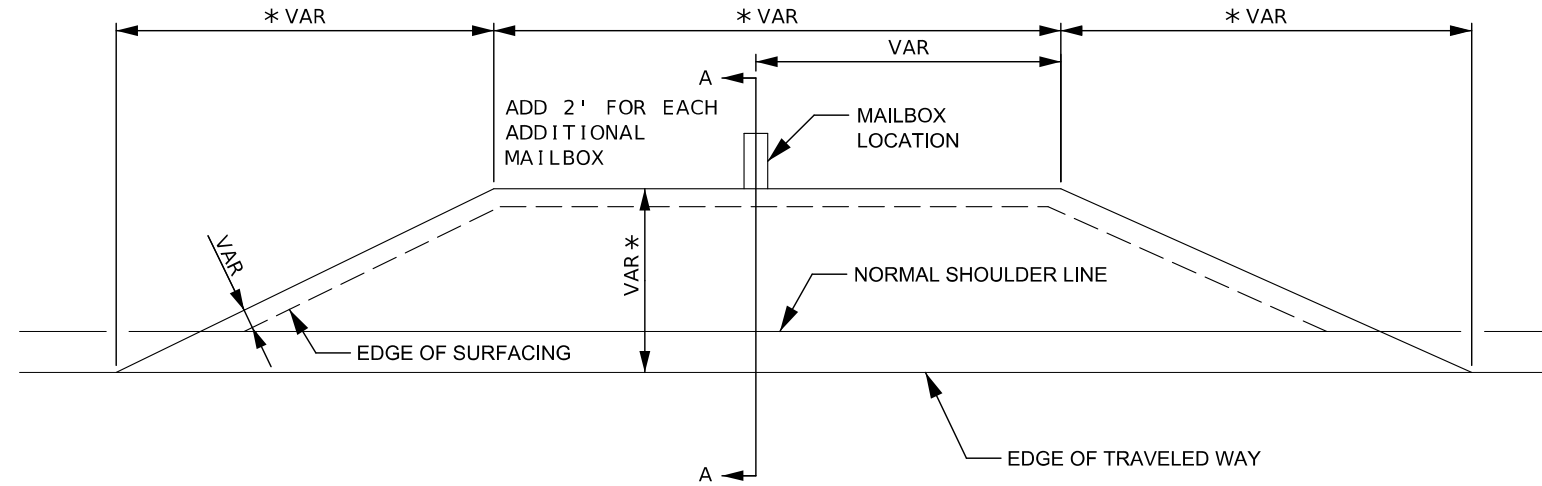
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

NOTE: MAILBOX TURNOUT QUANTITIES BASED ON 2' WIDTH AND 15' LENGTH. ADD 2' IN LENGTH PER ADDITIONAL MAILBOX AT SAME LOCATION, AS APPROVED BY THE ENGINEER.

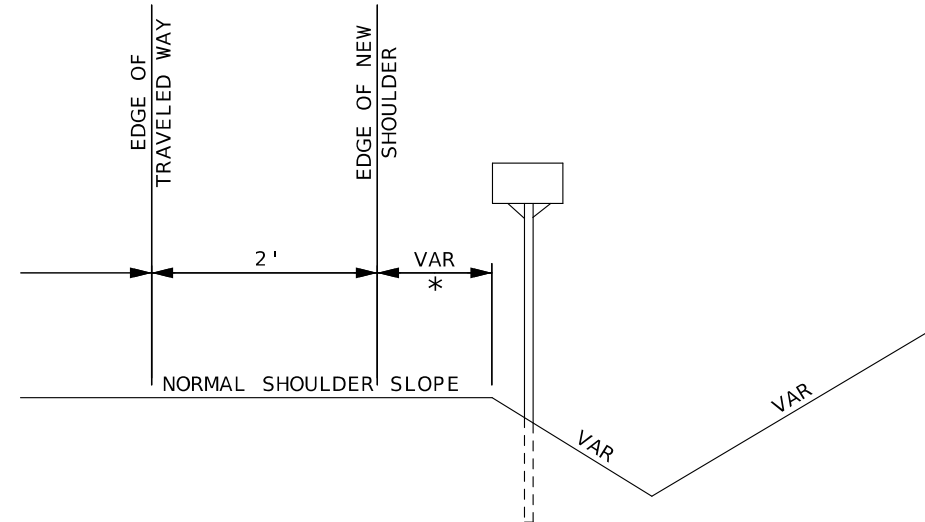
REVISED: 3/7/2023

### TYPICAL MAILBOX TURNOUT

\* AS APPROVED BY THE ENGINEER

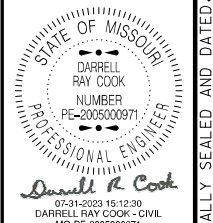


SECTION A-A  
NO SHOULDER



SECTION A-A  
SHOULDER

TYPICAL SECTIONS  
SHEET 4 OF 7



DATE PREPARED  
7/28/2023

ROUTE 76/BU37 STATE MO  
DISTRICT SW SHEET NO. 2

COUNTY  
MCDONALD/BARRY

JOB NO.  
J7S3447

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)

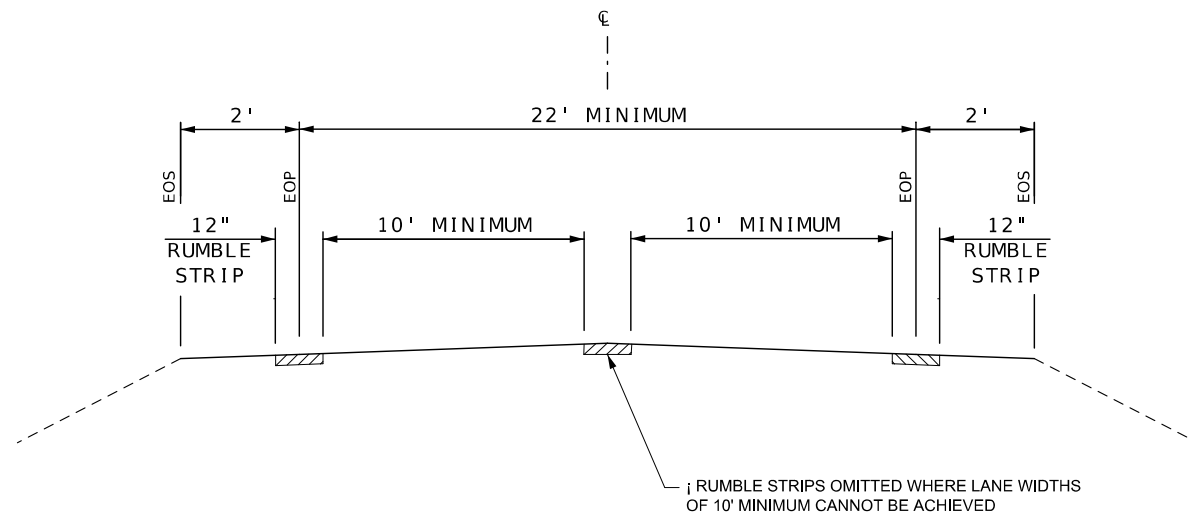
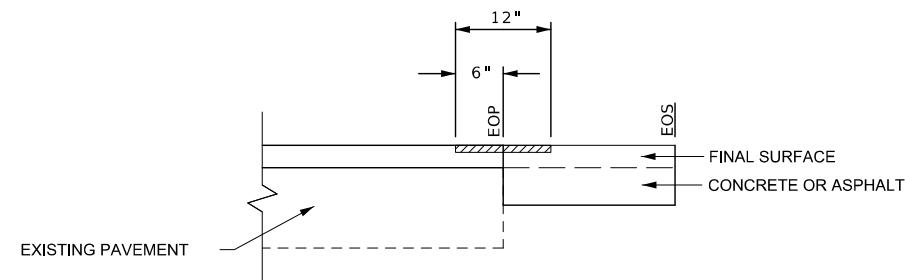
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REVISED: 3/7/2023

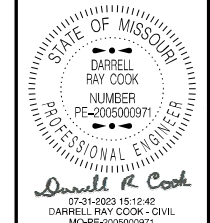
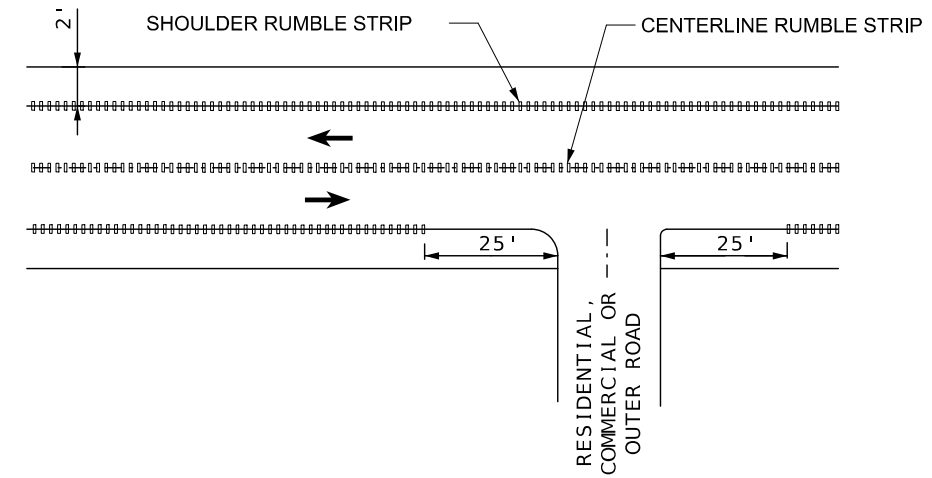
### RUMBLE STRIPS FOR 2' MODIFIED A3 SHOULDERS

AS APPROVED BY THE ENGINEER, A 6" MINI RUMBLE STRIP MAY BE USED WHERE A 12" RUMBLE STRIP DOES NOT FIT.

#### RUMBLE STRIP DETAILS



#### INTERSECTION RUMBLE STRIP LAYOUT



DATE PREPARED  
7/28/2023

ROUTE STATE  
76/BU37 MO

DISTRICT SHEET NO.  
SW 2

COUNTY  
MCDONALD/BARRY

JOB NO.  
J7S3447

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

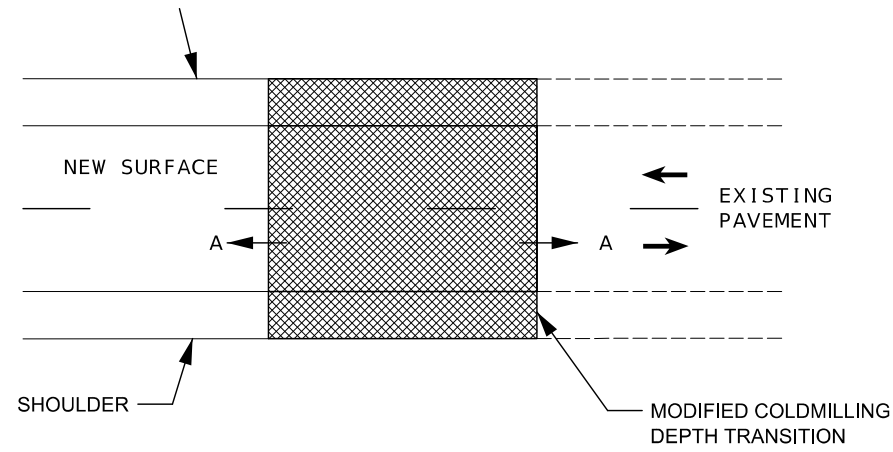
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

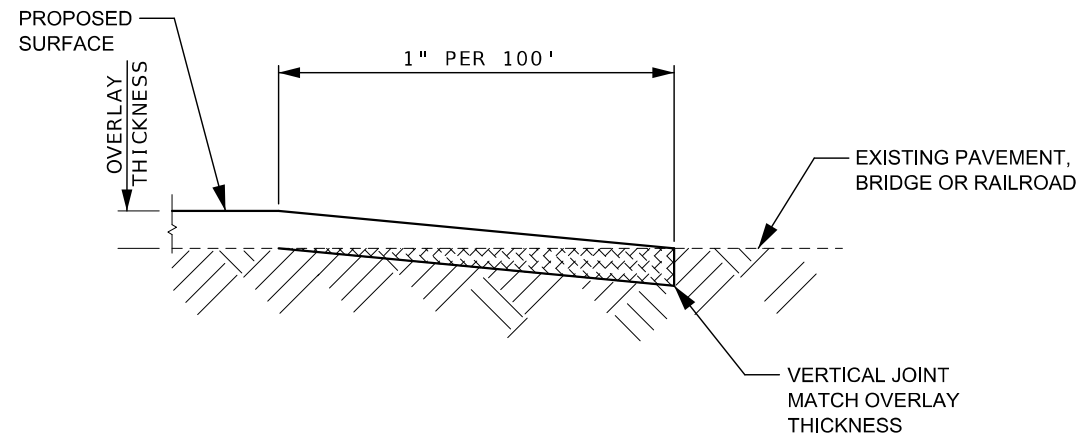
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

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

REVISED: 3/7/2023



MAINLINE, BRIDGE, AND RAILROAD PLAN



SECTION A-A

TRANSVERSE JOINT TRANSITION FOR SINGLE LIFT PROJECT BEGINNING, END, BRIDGE, OR RAILROAD

NOTE: MILL EXISTING CONCRETE 1" MAXIMUM.



DATE PREPARED  
7/28/2023

ROUTE STATE  
76/BU37 MO

DISTRICT SHEET NO.  
SW 2

COUNTY  
MCDONALD/BARRY

JOB NO.  
J7S3447

CONTRACT ID.

PROJECT NO.

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DESCRIPTION

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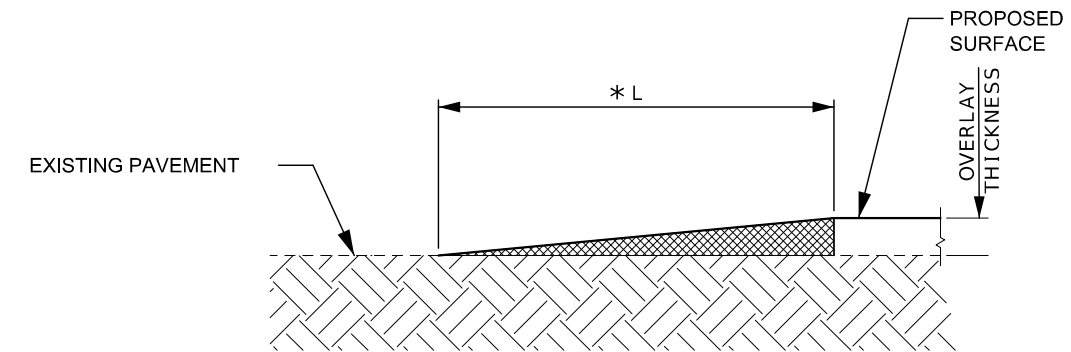
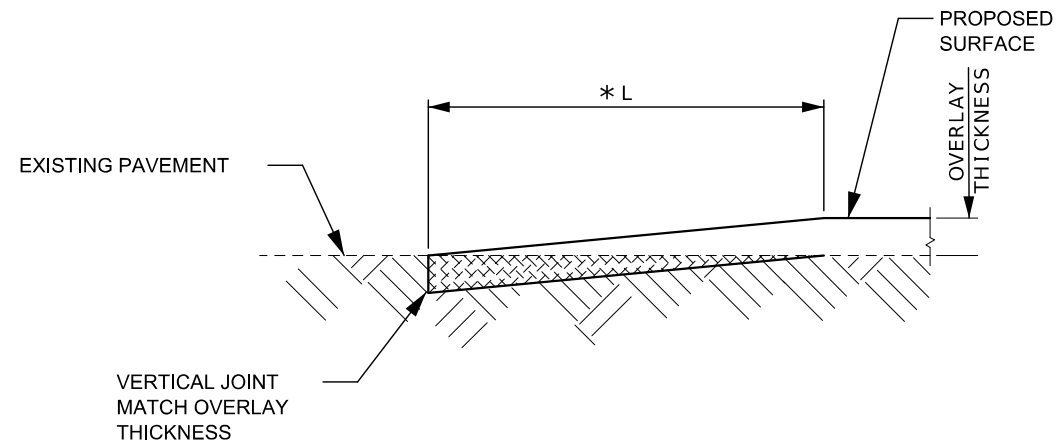
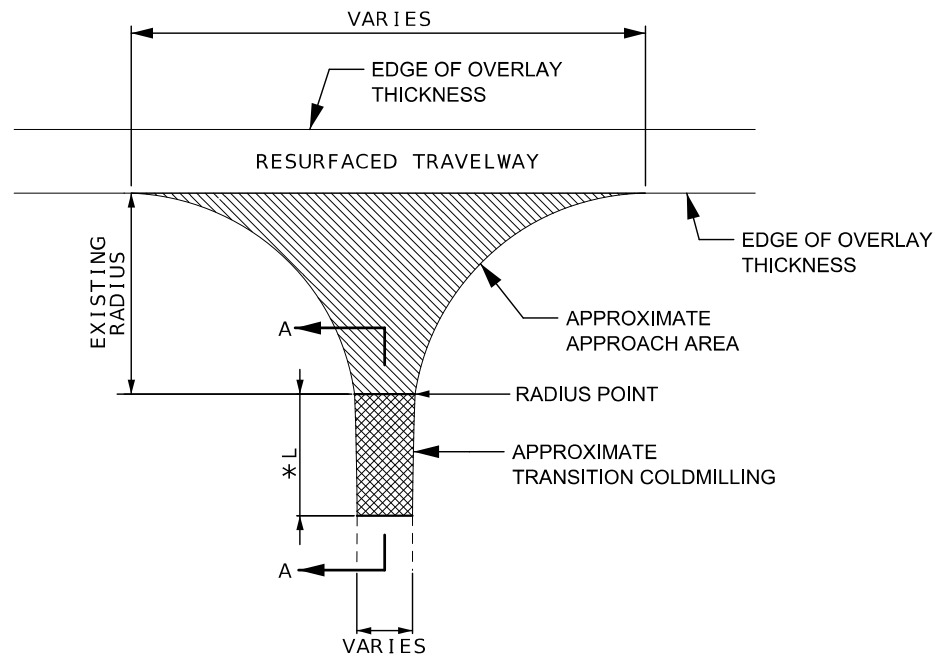
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REVISED: 5/15/2023



SECTION A-A

SURFACING REQUIREMENTS FOR OVERLAYS AT STATE ROUTES. SEE QUANTITY SHEETS FOR LOCATIONS.

\* TRANSITION LENGTHS

OVERLAY THICKNESS	DEPTH TRANS. LENGTH (L)
1"	20.0'
1 1/2"	40.0'
1 3/4"	50.0'
2"	60.0'

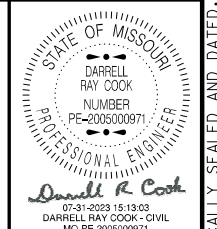
SECTION B-B

SURFACING REQUIREMENTS FOR OVERLAYS AT EXISTING COLD MIX STATE ROUTES. SEE QUANTITY SHEETS FOR LOCATIONS.

\* TRANSITION LENGTHS

OVERLAY THICKNESS	DEPTH TRANS. LENGTH (L)
1"	20.0'
1 1/2"	40.0'
1 3/4"	50.0'
2"	60.0'

TYPICAL SECTIONS SHEET 7 OF 7



DATE PREPARED: 7/28/2023  
 ROUTE: 76/BU37  
 DISTRICT: SW  
 STATE: MO  
 SHEET NO.: 2

COUNTY: MCDONALD/BARRY  
 JOB NO.: J7S3447  
 CONTRACT ID.

PROJECT NO.  
 BRIDGE NO.

DATE	DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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



**ASPHALT, TACK, SHOULDER GRADING, SEEDING & MULCHING**

ROUTE LT/RT	LOG MILE	TO	LOG MILE	NET LENGTH LF	AVERAGE WIDTH LF	BP-1 (PG 64-22)	BP-2 (PG 64-22)	SP125C (PG70-22)	TACK 0.08	TACK 0.10	SHOULDER GRADING STA.	LINEAR GRADING CLASS 2 (SHLDR)	COOL SEASON SEEDING	MULCHING	REMARKS
						1.965 TONS	1.960 TONS	1.970 TONS	GAL	GAL		100FT	ACRE	ACRE	
MO 76	35.286	-	37.128	9725.8	4.0	589.8	294.2		345.8			194.5	0.89	0.89	2 FT SHOULDER (BP-1 2.5", BP-2 1.25")
MO 76	35.286	-	37.128	9725.8	22.0		1618.0		1901.9						MAINLINE (BP-2 1.25")
MO 76	37.168	-	46.378	48628.8	4.0	2949.2	1470.9		1729.0			972.6	4.47	4.47	2 FT SHOULDER (BP-1 2.5", BP-2 1.25")
MO 76	37.168	-	46.378	48628.8	22.0		8089.8		9509.6						MAINLINE (BP-2 1.25")
MO 76	46.804	-	48.760	10327.7	4.0	626.4	312.4		367.2			206.6	0.95	0.95	2 FT SHOULDER (BP-1 2.5", BP-2 1.25")
MO 76	46.804	-	48.760	10327.7	22.0		1718.1		2019.6						MAINLINE (BP-2 1.25")
MO 76	48.769	-	51.310	13416.5	4.0		405.8		477.0		268.3		1.23	1.23	2 FT SHOULDER (BP-1 2.5", BP-2 1.25")
MO 76	48.769	-	51.310	13416.5	22.0		2231.9		2623.7						MAINLINE (BP-2 1.25")
MO 76	52.359	-	52.479	633.6	22.0		105.4			154.9					
MO 76	52.479	-	53.011	2809.0	33.0		700.9			1030.0					MAINLINE (BP-2 1.25")
MO 76	53.011	-	53.039	147.8	44.0			69.2		72.3					MAINLINE (BP-2 1.25") INCLUDING RIGHT TURN LANE
76/86	76/86		INTERSECTION	415.6	23.0		72.3		85.0						76/86 TRIANGLE
MO 86	45.680	-	45.820	739.2	23.0		128.6		151.1						MO 86
BU 37	3.415	-	3.444	153.1	40.0			65.17		68.1					MAINLINE (BP-2 1.25")
MO 76	35.286	-	51.310	8883.0	2.0		134.3								ENTRANCES & SIDEROADS
MO 76	35.286	-	51.310	998.0	2.0		15.1								MAILBOX TURNOUTS
MO 76	35.286	-	51.310	-	-		1201.8								IRREGULARITIES 75 TONS/MILE
MO 76, LT/RT	35.286	-	51.310	-	-		66.3								SAFETY EDGE
TOTAL						4165.5	18565.8	134.40	19210.1	1325.2	268.4	1373.6	7.54	7.54	
USE						4165.5	18565.8	134.4	20536		268.4	1374	7.5	7.5	

**COLDMILLING**

LOG MILE TO MILE	LOG MILE	LOCATION	LENGTH (FT)	WIDTH (FT)	3" OR LESS COLDMILLING (SY)	MODIFIED COLDMILLING (SY)	REMARKS
35.286 - 35.310		MO 76	125.0	22		305.6	125' DEPTH TRANSITION BEGIN PROJECT
37.104 - 37.128		MO 76	125.0	22		305.6	125' DEPTH TRANSITION BEFORE BR#J0371
37.168 - 37.192		MO 76	125.0	22		305.6	125' DEPTH TRANSITION AFTER BR#J0371
45.659 - 45.682		MO 86	125.0	22		305.6	125' DEPTH TRANSITION ON RTE. 86
46.714 - 46.738		MO 76	125.0	22		305.6	125' DEPTH TRANSITION BEFORE BR#H0483
46.804 - 46.828		MO 76	125.0	22		305.6	125' DEPTH TRANSITION AFTER BR#H0483
48.736 - 48.760		MO 76	125.0	22		305.6	125' DEPTH TRANSITION BEFORE RR
48.769 - 48.793		MO 76	125.0	22		305.6	125' DEPTH TRANSITION AFTER RR
51.286 - 51.310		MO 76	125.0	22		305.6	125' DEPTH TRANSITION END RESURFACE
52.359 - 53.015		MO 76	3463.7	44	16933.5		
53.015 - 53.039		MO 76	125.0	44		611.1	125' DEPTH TRANSITION NORTH OF INTERSECTION
3.415 - 3.444		BUS 36	153.1	33	561.4	458.3	125' DEPTH TRANSITION SOUTH OF INTERSECTION
TOTAL					17495.0	3819.4	
USE					17495	3819	

**BITUMINOUS FOG SEAL**

LOG MILE TO MILE	LOG MILE	LOCATION	LENGTH (FT)	WIDTH (FT)	FOG SEAL 0.20 GAL/SY (GAL)	REMARKS
52.479 - 53.039		MO 76 LT/RT	2956.8	20	1314.1	FOG SEAL SHOULDERS
3.415 - 3.444		BU 37 LT/RT	153.1	20	68.1	FOG SEAL SHOULDERS
TOTAL					1382.2	
USE					1382	

**REMOVAL OF IMPROVEMENTS**

LOG MILE TO MILE	LOG MILE	LOCATION	DESCRIPTION	QTY		REMARKS
46.719 - 46.738		MO 76 RT/LT	100' GUARDRAIL	200	LF	BR#H0483
46.804 - 46.822		MO 76 RT/LT	100' GUARDRAIL	200	LF	BR#H0483
LUMP SUM				1		

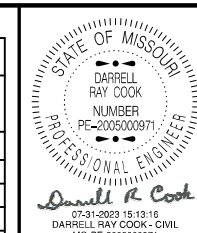
**BITUMINOUS SHOULDER RUMBLE STRIP**

LOG MILE TO MILE	LOG MILE	LOCATION	RUMBLE STRIP (STA)	REMARKS
35.286 - 37.128		MO 76	97.3	LT EOP
35.286 - 37.128		MO 76	97.3	RT EOP
37.168 - 46.738		MO 76	505.3	LT EOP
37.168 - 46.738		MO 76	505.3	RT EOP
46.804 - 48.760		MO 76	103.3	LT EOP
46.804 - 48.760		MO 76	103.3	RT EOP
48.769 - 51.310		MO 76	268.3	LT EOP
48.769 - 51.310		MO 76	268.3	RT EOP
			245.9	SUBTRACT ENTRANCES
TOTAL			1948.3	
USE			1948.3	

MOBILIZATION  
LUMP SUM = 1

CONTRACTOR FURNISHED  
STAKING & SURVEYING  
LUMP SUM = 1

SUMMARY OF QUANTITIES  
SHEET 1 OF 4



DATE PREPARED  
**7/28/2023**  
ROUTE: **76/BU37** STATE: **MO**  
DISTRICT: **SW** SHEET NO.: **3**

COUNTY: **CDONALD/BARRY**  
JOB NO.: **JTS3447**  
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)

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

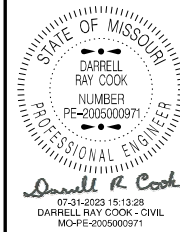
EROSION CONTROL										
LOG MILE	LOG MILE	SILT FENCE LOCATION	LENGTH	# OF DITCH CHECKS EACH STRUCTURE (EA)	# OF X-ROAD STRUCTURES (EA)	SILT FENCE (LF)	ROCK DITCH CHECK (LF)	SEDIMENT REMOVAL (CY)	SEPARATION GEOTEXTILE (SY)	REMARKS
35.286	51.310	VARIOUS, LT & RT	84606.72	4	7	3000.0	280	58	140	SEE TYPICAL SHEET 1 OF 5
						PAY TOTAL	3000.0	280.0	58.0	140.0
10 LF PER ROCK DITCH CHECK, 5 SY GEOTEXTILE PER DITCH CHECK										

STANDARD WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS						
LOG MILE	LOG MILE	LOCATION	4" SOLID WHITE (FT)	4" INT. YELLOW (FT)	4" SOLID YELLOW (FT)	REMARKS
35.286 - 36.947	MO 76		17540	0	8770	DOUBLE YELLOW CL
36.947 - 37.308	MO 76		3812	477	3812	
37.308 - 37.607	MO 76		3157	395	3157	DOUBLE YELLOW CL
37.607 - 37.806	MO 76		2101	263	2101	
37.806 - 38.285	MO 76		5058	632	0	
38.285 - 38.445	MO 76		1690	211	845	
38.445 - 38.766	MO 76		3390	0	3390	DOUBLE YELLOW CL
38.766 - 39.085	MO 76		3369	421	1684	
39.085 - 39.145	MO 76		634	79	0	
39.145 - 39.385	MO 76		2534	317	1267	
39.385 - 39.685	MO 76		3168	0	3168	DOUBLE YELLOW CL
39.685 - 39.865	MO 76		1901	238	950	
39.865 - 40.366	MO 76		5291	661	0	
40.366 - 40.466	MO 76		1056	132	528	
40.466 - 41.965	MO 76		15829	0	15829	DOUBLE YELLOW CL
41.965 - 42.065	MO 76		1056	132	528	
42.065 - 42.225	MO 76		1690	211	0	
42.225 - 42.404	MO 76		1890	236	945	
42.404 - 44.262	MO 76		19620	0	19620	DOUBLE YELLOW CL
44.262 - 44.402	MO 76		1478	185	739	
44.402 - 44.422	MO 76		211	0	211	DOUBLE YELLOW CL
44.422 - 44.541	MO 76		1257	157	628	
44.541 - 44.922	MO 76		4023	0	4023	DOUBLE YELLOW CL
44.922 - 45.061	MO 76		1468	183	734	
45.061 - 45.101	MO 76		422	53	0	
45.101 - 46.261	MO 76		12250	1531	6125	
45.261 - 46.519	MO 76		13284	0	13284	DOUBLE YELLOW CL
46.519 - 46.698	MO 76		1890	236	945	
46.698 - 47.258	MO 76		5914	739	0	
47.258 - 47.417	MO 76		1679	210	840	
47.417 - 47.437	MO 76		211	26	0	
47.437 - 47.537	MO 76		1056	132	528	
47.537 - 47.637	MO 76		1056	132	0	
47.637 - 47.797	MO 76		1690	211	845	
47.797 - 48.397	MO 76		6336	0	6336	DOUBLE YELLOW CL
48.397 - 48.497	MO 76		1056	132	528	
48.497 - 48.657	MO 76		1690	211	0	
48.657 - 48.788	MO 76		1383	173	692	
48.788 - 48.918	MO 76		1267	158	634	
48.918 - 49.098	MO 76		1901	238	0	
49.098 - 49.557	MO 76		4847	606	2424	
49.557 - 49.577	MO 76		211	26	0	
49.577 - 49.697	MO 76		1267	158	634	
49.697 - 49.717	MO 76		211	26	0	
49.717 - 50.017	MO 76		3168	396	1584	
50.017 - 50.057	MO 76		422	0	422	DOUBLE YELLOW CL
50.057 - 50.157	MO 76		1056	132	528	
50.157 - 50.177	MO 76		211	26	0	
50.177 - 50.497	MO 76		3379	422	1690	
50.497 - 51.097	MO 76		6336	0	3168	DOUBLE YELLOW CL
51.097 - 51.297	MO 76		2112	264	1056	
52.359 - 52.398	MO 76		412	51	206	
52.398 - 52.499	MO 76		1067	133	533	
52.499 - 53.019	MO 76		5491	686	5491	
53.019 - 53.039	MO 76		211	0	211	DOUBLE YELLOW CL
45.659 - 45.699	MO 86		211	0	422	DOUBLE YELLOW CL
		TOTAL	186923	12042	122058	
		USE	186923	134100		

GRAVEL (A) OR CRUSHED STONE (B)  
636 TONS

PERMANENT AGGREGATE EDGE TREATMENT							
LOG MILE	LOG MILE	LOCATION	LENGTH (FT)	WIDTH (FT)	PERMANENT AGGREGATE TREATMENT @ 200 TONS/MILE (TONS)	PRIME MC800 0.25 GAL/SY (GAL)	REMARKS
35.286 - 37.128	MO 76		9725.76	2	184.2	540.3	LT EOS
35.286 - 37.128	MO 76		9725.76	2	184.2	540.3	RT EOS
37.168 - 46.738	MO 76		50529.6	2	957.0	2807.2	LT EOS
37.168 - 46.738	MO 76		50529.6	2	957.0	2807.2	RT EOS
46.804 - 48.760	MO 76		10327.68	2	195.6	573.8	LT EOS
46.804 - 48.760	MO 76		10327.68	2	195.6	573.8	RT EOS
48.769 - 51.310	MO 76		13416.48	2	254.1	745.4	LT EOS
48.769 - 51.310	MO 76		13416.48	2	254.1	745.4	RT EOS
					TOTAL	3181.8	9333.3
					USE	3181.8	9333

SUMMARY OF QUANTITIES  
SHEET 2 OF 4



DATE PREPARED  
7/28/2023

ROUTE 76/BU37 STATE MO

DISTRICT SW SHEET NO. 3

COUNTY MCDONALD/BARRY

JOB NO. J7S3447

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

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

RELOCATED SIGNS					
LOG MILE	TO	LOG MILE	LOCATION	RELOCATED SIGNS	REMARKS
			RT/LT	SF	
35.460			76 RT	12.0	REUSE SPEED LIMIT SIGN FACE
36.637			76 LT	9.0	REUSE CURVE LT SIGN FACE
37.128			76 RT	2.0	REUSE BRIDGE SIGN FACE
37.198			76 LT	2.0	REUSE BRIDGE SIGN FACE
38.356			76 LT	12.0	REUSE SPEED LIMIT SIGN FACE
38.436			76 RT	96.0	REUSE DESTINATION SIGN FACE
38.697			76 RT	12.4	REUSE 76 & 86 WITH ARROWS SIGN FACE
38.757			76 LT	96.0	REUSE DESTINATION SIGN FACE
39.436			76 LT	7.5	REUSE CHEVRON FACE
39.456			76 LT	7.5	REUSE CHEVRON FACE
39.476			76 LT	7.5	REUSE CHEVRON FACE
39.976			76 LT	7.5	REUSE CHEVRON FACE
43.036			76 RT	9.0	REUSE CURVE LT SIGN FACE
45.257			76 RT	9.0	REUSE REVERSE CURVE SIGN FACE
			TOTAL	289.4	
			USE	289	

CABLE LOOP DETECTOR, IN DUCT			
LOG MILE	QTY	1C # 14 IN-DUCT CABLE (FT)	REMARKS
3.44	1	264.0	SB BU 37 @ MO 37
53.019	2	528.0	NB MO 76 @ BU 37
264' PER LOOP		790.0	TOTAL IN DUCT (LOOPS)
150' LEAD PER LOOP		450	TOTAL LEAD IN (3 LOOPS)

PERFORMED THERMOPLASTIC MARKING TAPE							
LOG MILE	LOG MILE TO	LOCATION	24" WHITE BAR (LF)	RR CROSSING MARKING (EA)	WHITE LT/RT ARROW (EA)	30" MID BLOCKS (EA)	REMARKS
48.678	48.678	MO 76 E	12				
48.678	48.678	MO 76 E		1			
48.678	48.678	MO 76 E	12				
48.788	48.788	MO 76 E	12				STOP BAR AT RR
48.818	48.818	MO 76 E				4	CROSSWALK BAR
49.017	49.017	MO 76 E				4	CROSSWALK BAR
160.978	160.978	MO 76 W	12				
160.978	160.978	MO 76 W		1			
160.978	160.978	MO 76 W	12				
161.058	161.058	MO 76 W	12				STOP BAR AT RR
52.579	52.579	MO 76			2		LT AND RT ARROW
52.769	52.679	MO 76			2		LT AND RT ARROW
52.759	52.759	MO 76			2		LT AND RT ARROW
52.859	52.859	MO 76			2		LT AND RT ARROW
52.959	52.959	MO 76			2		LT AND RT ARROW
53.019	53.019	MO 76 E			1		RT ARROW
53.038	53.038	MO 76 E	12				
3.44	3.44	BU 37 S	24				
3.421	3.421	BU 37 S			1		LT ARROW
TOTAL			108	2	12	8	
USE			108	2	12	8	

MGS GUARDRAIL									
LOG MILE	LOG MILE TO	LOCATION	MGS GUARDRAIL (FT)	MASH CRASHWORTHY END TERMINAL (EA)	MGS HEIGHT AND BLOCK TRANSITION (EA)	MGS BRIDGE APPROACH TRANSITION "REGULAR/ NO CURB" (EA)	MGS BRIDGE APPROACH TRANSITION "THREE-BEAM" (EA)	SHAPING SLOPES CL III (100FT)	REMARKS
37.107	37.128	J0371 EB	112.5	1			1	0.5	ADJACENT
37.119	37.128	J0371 EB	50.0	1			1	0.5	OPPOSING
37.168	37.189	J0371 EB	112.5	1			1	0.5	ADJACENT
37.168	37.177	J0371 EB	50.0	1			1	0.5	OPPOSING
46.737	46.754	H0483 EB	87.5	1	1		1	0.5	ADJACENT
46.799	46.804	H0483 EB	25.0	1	1		1	0.5	OPPOSING
46.804	46.821	H0483 EB	87.5	1	1		1	0.5	ADJACENT
46.804	46.809	H0483 EB	25.0	1	1		1	0.5	OPPOSING
TOTAL			550.0	8	4	4	4	4.0	
USE			550	8	4	4	4	4	

SUMMARY OF QUANTITIES  
SHEET 3 OF 4



DATE PREPARED  
7/28/2023

ROUTE 76/BU37 STATE MO  
DISTRICT SW SHEET NO. 3

COUNTY MCDONALD/BARRY  
JOB NO. J7S3447

CONTRACT ID.  
PROJECT NO.  
BRIDGE NO.

DESCRIPTION

DATE

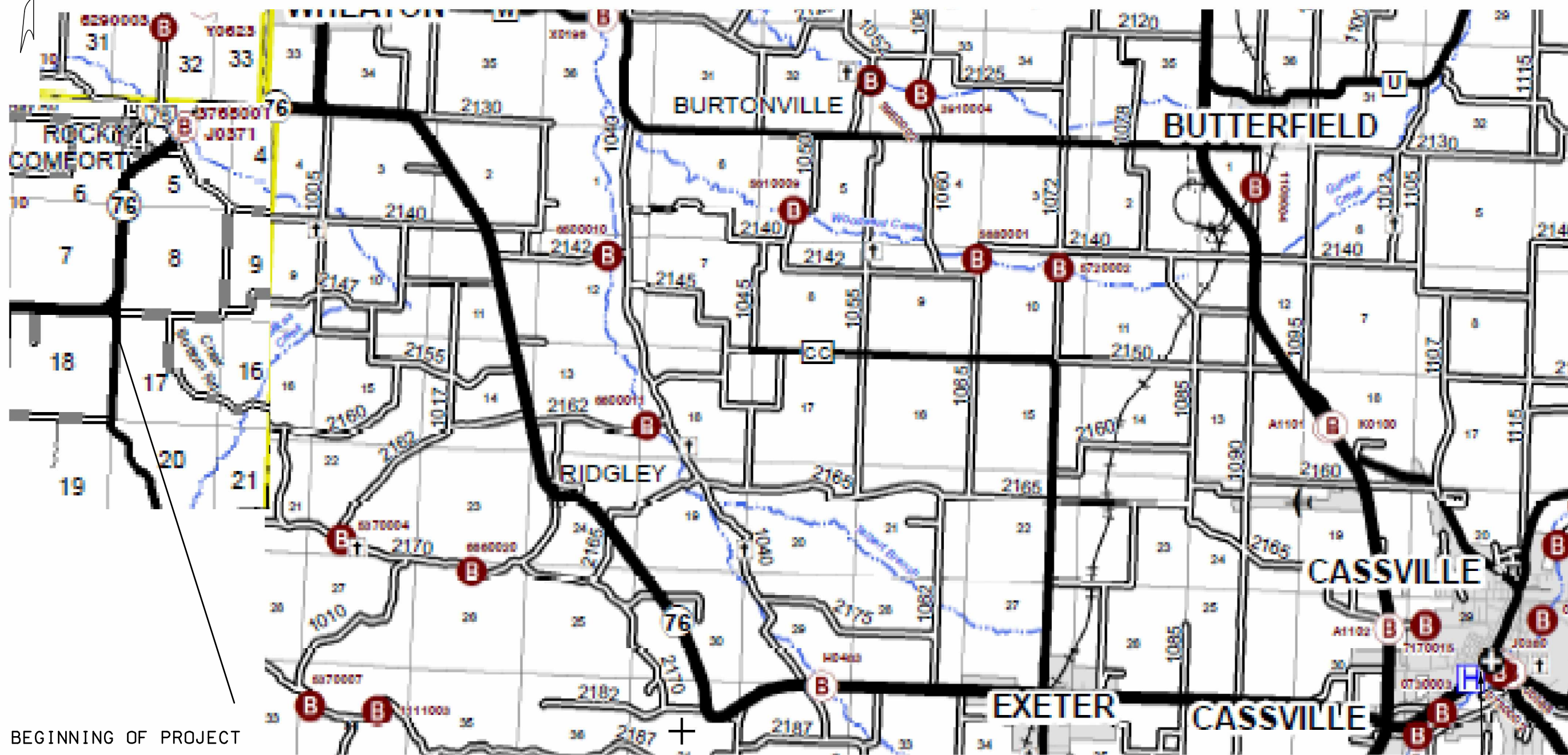
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

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



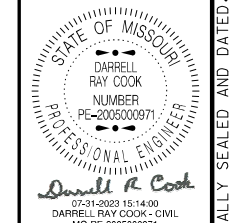


BEGINNING OF PROJECT

NOT TO SCALE

END OF PROJECT

SPECIAL SHEET  
SHEET 1 OF 4



DATE PREPARED  
7/28/2023

ROUTE	STATE
76/BU37	MO
DISTRICT	SHEET NO.
SW	4

COUNTY  
MCDONALD/BARRY

JOB NO.  
J7S3447

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

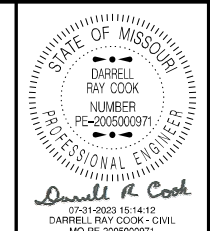
**MoDOT**

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

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MO 76/ MO 86 INTERSECTION  
 INCLUDE TRIANGLE  
 OVERLAY 0.08  
 NO SHOULDER WORK ON 86



DATE PREPARED  
7/28/2023

ROUTE	STATE
76/BU37	MO
DISTRICT	SHEET NO.
SW	5

COUNTY  
MCDONALD/BARRY

JOB NO.  
J7S3447

CONTRACT ID.

PROJECT NO.

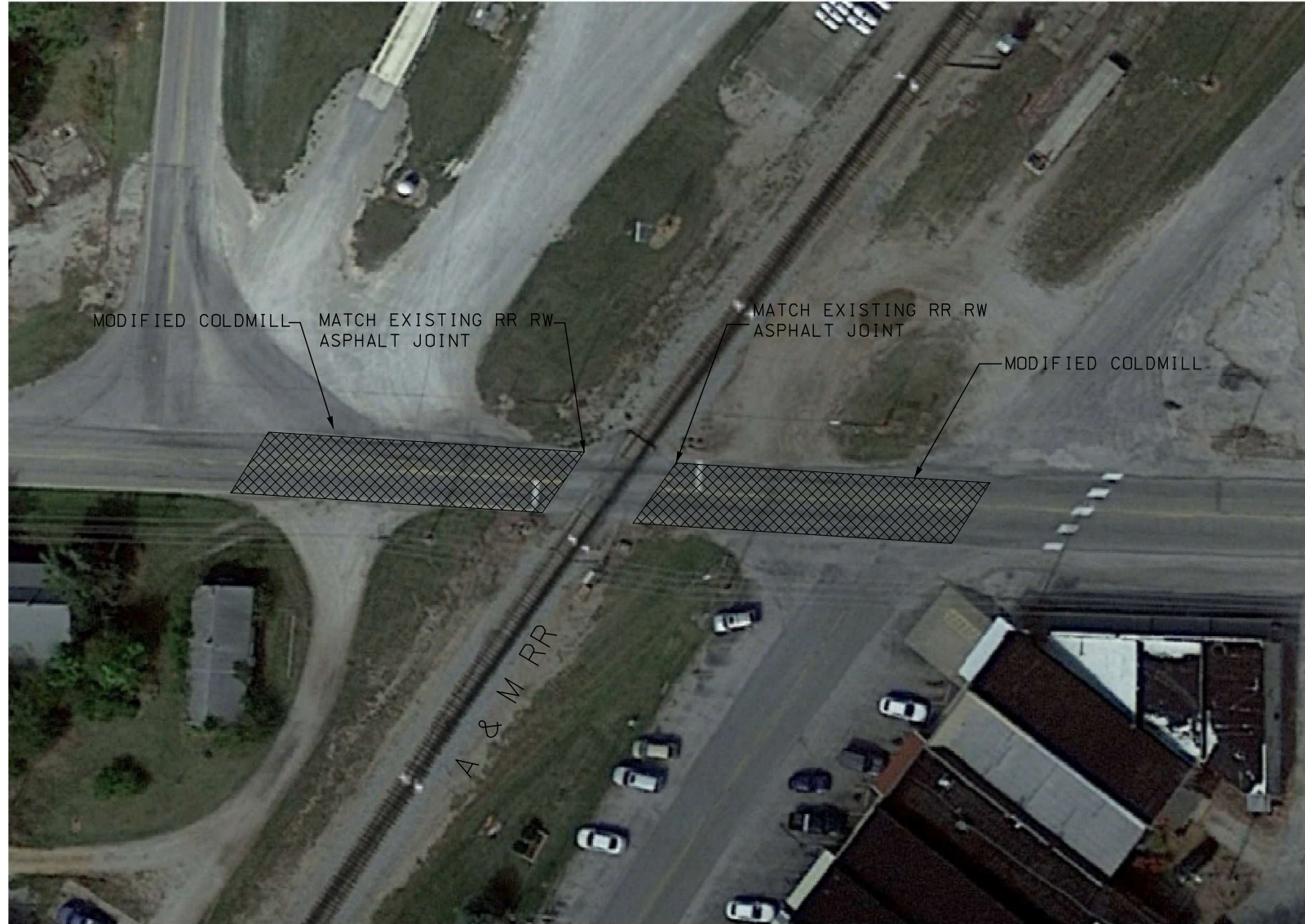
BRIDGE NO.

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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RAILROAD CROSSING  
EXETER, MO

NOT TO SCALE



DATE PREPARED  
7/28/2023

ROUTE 76/BU37 STATE MO

DISTRICT SW SHEET NO. 6

COUNTY MCDONALD/BARRY

JOB NO. J7S3447

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SPECIAL SHEET  
SHEET 3 OF 4



J7P3437 ENDS  
J7S3447 BEGINS

COLDMILL TO  
JOINT

COLDMILL TO  
JOINT

BU37

Arvest Bank

Sunrise

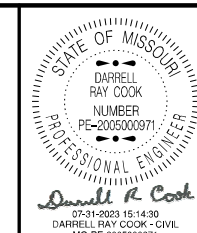
M076

M076

MFA Oil Petro-Card 24

NOT TO SCALE

SPECIAL SHEET  
SHEET 4 OF 4



DATE PREPARED  
7/28/2023

ROUTE	STATE
76/BU37	MO

DISTRICT	SHEET NO.
SW	7

COUNTY  
MCDONALD/BARRY

JOB NO.  
J7S3447

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION



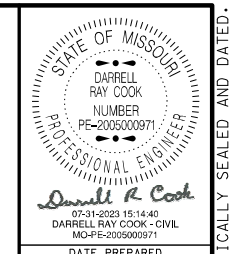
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
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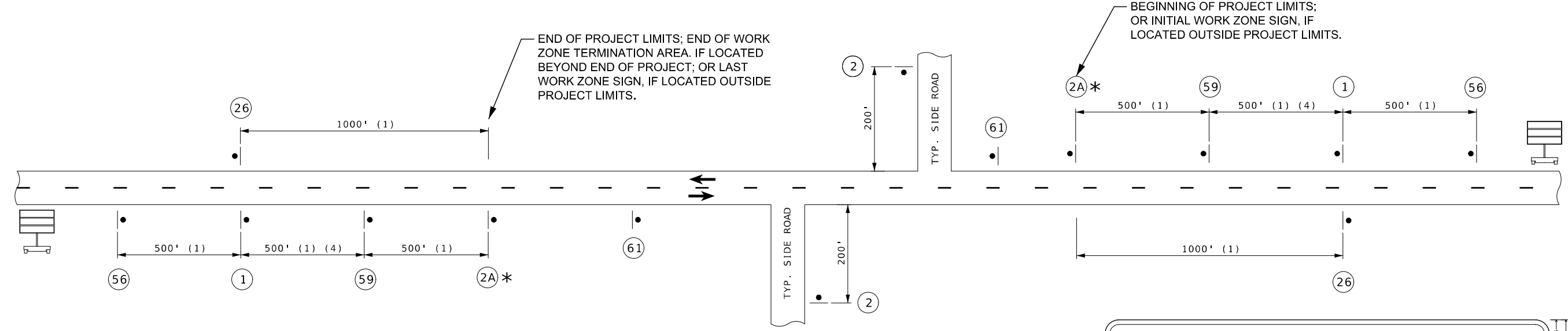


GENERAL NOTES:

1. ANY EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.
2. TEMPORARY SIGNING SHOWN IS FOR WORK ON ONE SIDE OF THE ROAD. FOR WORK ON THE OTHER SIDE, REVERSE ORDER OF THE SIGNS AND CHANNELIZERS.
3. SIGNING SHOWN SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
4. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER.
5. REFER TO STANDARD DRAWING 616.10, 619.10, AND 620.10 FOR ADDITIONAL DETAILS AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.
6. SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.
7. TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST.
8. NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONSTRUCTION SIGNS, OR FLASHING ARROW PANEL.
9. ALL SIGNS, EXCEPT "RATE OUR WORK ZONES" SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING PROPER TRAFFIC CONTROL SETUPS THROUGHOUT CONSTRUCTION AS DESCRIBED IN THESE PLANS OR AS APPROVED BY THE ENGINEER.
11. WHERE MINIMUM LANE WIDTHS CANNOT BE ACHIEVED ON THE SIDE STREETS, THE CONTRACTOR SHALL CLOSE HALF OF THE APPROACH AND POSITION A FLAGGER AT EACH END OF THE WORK AREA. LOCATION TO BE DETERMINED BY THE ENGINEER. ADVANCE FLAGGER SIGNING SHALL BE INSTALLED AS OUTLINED IN THE MUTCD.
12. THE CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS TO ALL BUSINESSES AND STREETS. NO STREET OR ENTRANCE SHALL BE COMPLETELY BLOCKED.
13. SPACING & DISTANCES OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD & APPROVED BY THE ENGINEER.
14. TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
15. ADJUST ADVANCE WARNING SIGN SPACING TO AVOID SIGN PLACEMENT WITHIN THE LIMITS OF THE RAILROAD RIGHT OF WAY.
16. CONTRACTOR SHALL COORDINATE WITH ADA PROJECT, JXXXXXX.

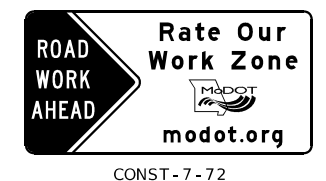


DATE PREPARED 7/28/2023	
ROUTE 76/BU37	STATE MO
DISTRICT SW	SHEET NO. 8
COUNTY MCDONALD/BARRY	
JOB NO. J7S3447	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



- (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) SIGN CONST-7-72 IS PLACED 500 FEET BEFORE THE BEGINNING OF PROJECT LIMITS OR THE ROAD WORK AHEAD SIGN OR ROAD WORK NEXT XX MILES SIGN. IF USED, WHEN THESE SIGNS ARE LOCATED OUTSIDE THE PROJECT LIMITS.
- (3) CONST-5-96 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.
- (4) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.
- (5) CMS PLACEMENT SHALL BE APPROVED BY THE ENGINEER.

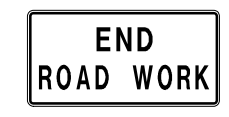
TYPICAL BEGINNING AND END OF PROJECT  
(UNDIVIDED HIGHWAY)



CONST-7-72  
56 (2)



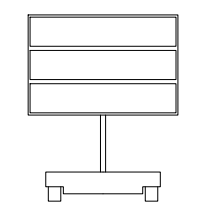
WO20-1



GO20-2  
26



WO20-1  
2A \*



(5)

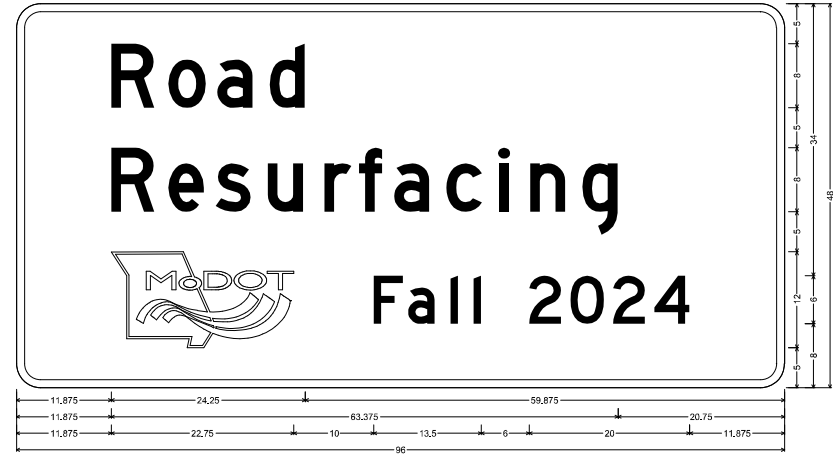


CONST-8  
59 (4)

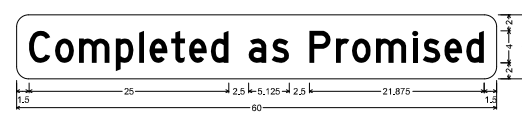


GO20-1  
1

\* SIGN 2A WITH AWRS MUST BE GROUND OR SKID MOUNTED.



CONST-5-96  
61 (3)

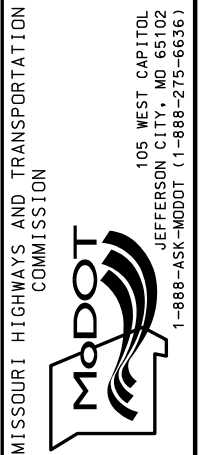


CONST-60  
62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

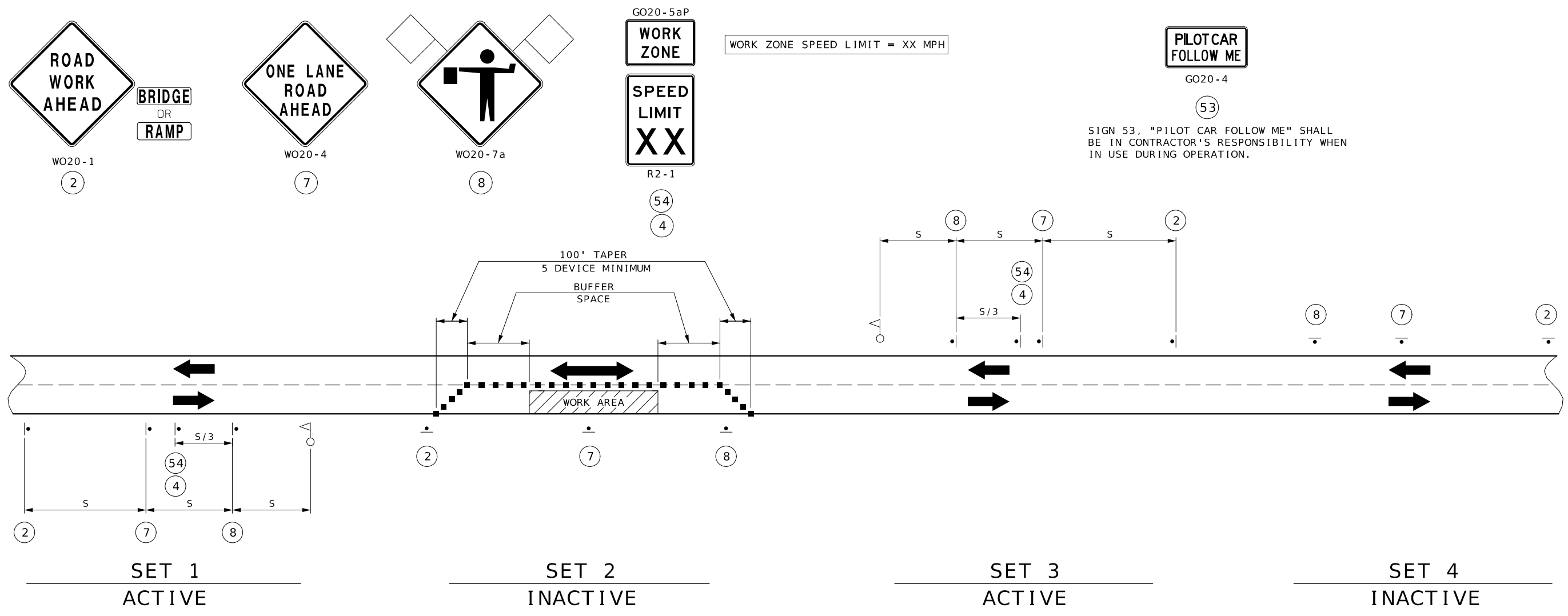
NOT TO SCALE

TRAFFIC CONTROL SHEET 1 OF 6

DATE	DESCRIPTION



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

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

FLAG ASSEMBLIES FOR SIGN W020-7a ARE SUBSIDIARY TO THE SIGN.

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)	CHANNELIZER SPACING (FT)	OPTIONAL
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)	BUFFER/WORK AREAS	BUFFER LENGTH (FT)
0-35	200	40	280
40-45	350	80	400
50-55	500	80	560
60-70	1000	120	840

SPACING 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, AS APPROVED BY ENGINEER.

### MOVING FLAGGER OPERATION (UNDIVIDED HIGHWAY)

NOT TO SCALE

TRAFFIC CONTROL  
SHEET 2 OF 6

STATE OF MISSOURI  
DARRELL RAY COOK  
NUMBER PE-2005000971  
PROFESSIONAL ENGINEER  
*Darrell R. Cook*  
07-01-2023 15:14:49  
DARRELL RAY COOK-CIVIL  
MO-PE-2005000971

DATE PREPARED: 7/28/2023

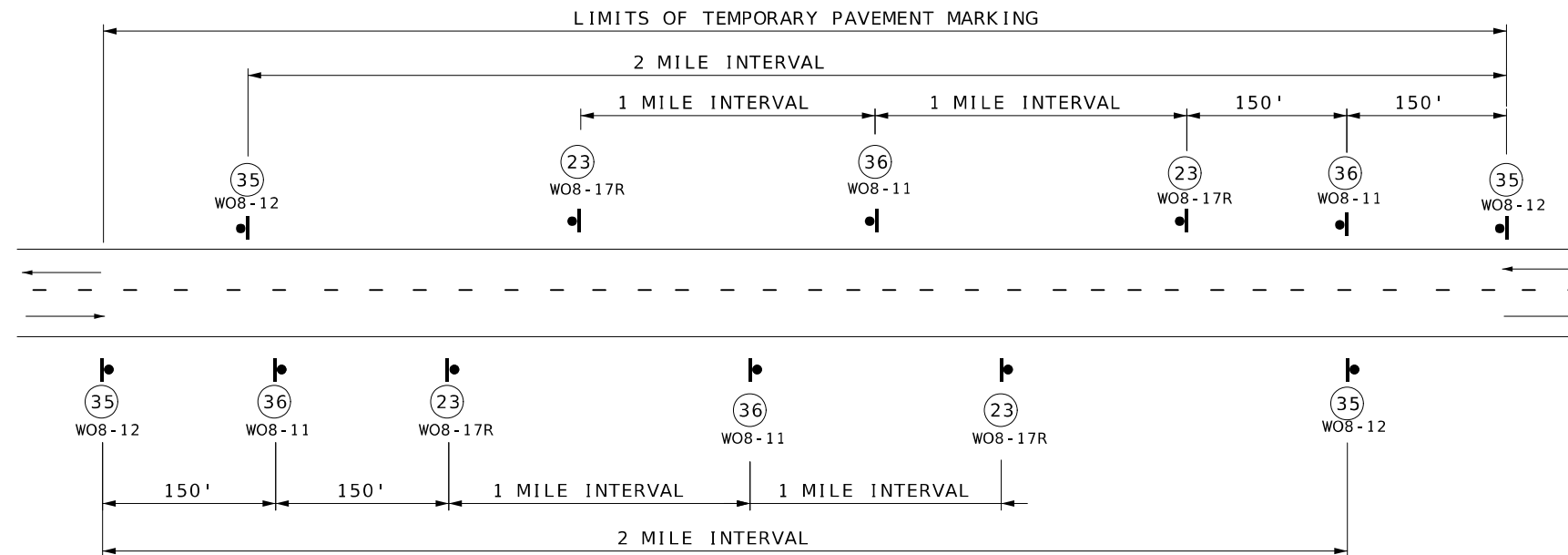
ROUTE: 76/BU37 STATE: MO  
DISTRICT: SW SHEET NO.: 9

COUNTY: MCDONALD/BARRY  
JOB NO.: J7S3447  
CONTRACT ID.:  
PROJECT NO.:  
BRIDGE NO.:

DESCRIPTION	DATE

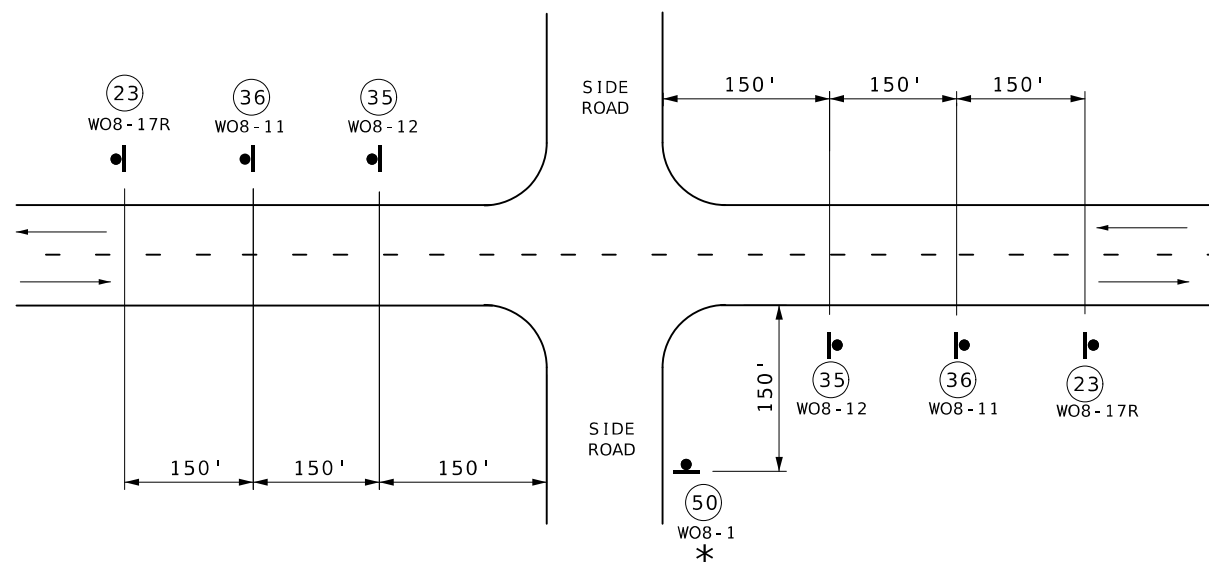
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

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



**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 SIGNS 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 SIDE ROAD INTERSECTIONS**

\* BUMP SIGN SHOULD BE IN ACCORDANCE WITH STANDARD PLAN 619.10.  
 UNLESS REQUIRED BY STANDARD PLAN 619.10, BUMP SIGN AT CONTRACTOR'S  
 EXPENSE, NO DIRECT PAY. SEE STANDARD SPECIFICATION 622.2.4.



SHOULDER  
DROP-OFF

W08-17R  
W08-17p

(23)



W08-1  
(50) \*



W08-11

(36)



W08-12

(35)

**GENERAL NOTES:**

FOR DETAILS OF TEMPORARY PAVEMENT MARKING, SEE  
 STD. 620.10, SHEET 1 OF 5.

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.

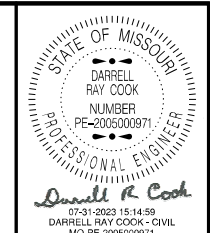
ALL SIGNS SHALL BE POST MOUNTED AND IN ACCORDANCE  
 WITH STANDARD PLAN 616.10 AND 903.03.

WHEN SHOULDER DROP-OFF SIGNS ARE IN PLACE FOR GREATER  
 THAN THREE DAYS, THE SHOULDER DROP-OFF PLAQUE SHOULD  
 BE USED IN ADDITION WITH THE SHOULDER DROP-OFF SIGN.

FOR BRIDGE EXCEPTIONS AND COLDMILLED AREAS, LOCATION  
 OF SIGN (50) TO BE APPROVED BY THE ENGINEER. UNLESS  
 REQUIRED BY STANDARD PLAN 619.10, SIGN (50) AT  
 CONTRACTOR'S EXPENSE, NO DIRECT PAY. SEE STANDARD  
 SPECIFICATION 622.2.4.

NOT TO SCALE

TRAFFIC CONTROL  
 SHEET 3 OF 6



DATE PREPARED  
7/28/2023  
 ROUTE STATE  
76/BU37 MO  
 DISTRICT SHEET NO.  
SW 10  
 COUNTY  
MCDONALD/BARRY  
 JOB NO.  
J7S3447  
 CONTRACT ID.

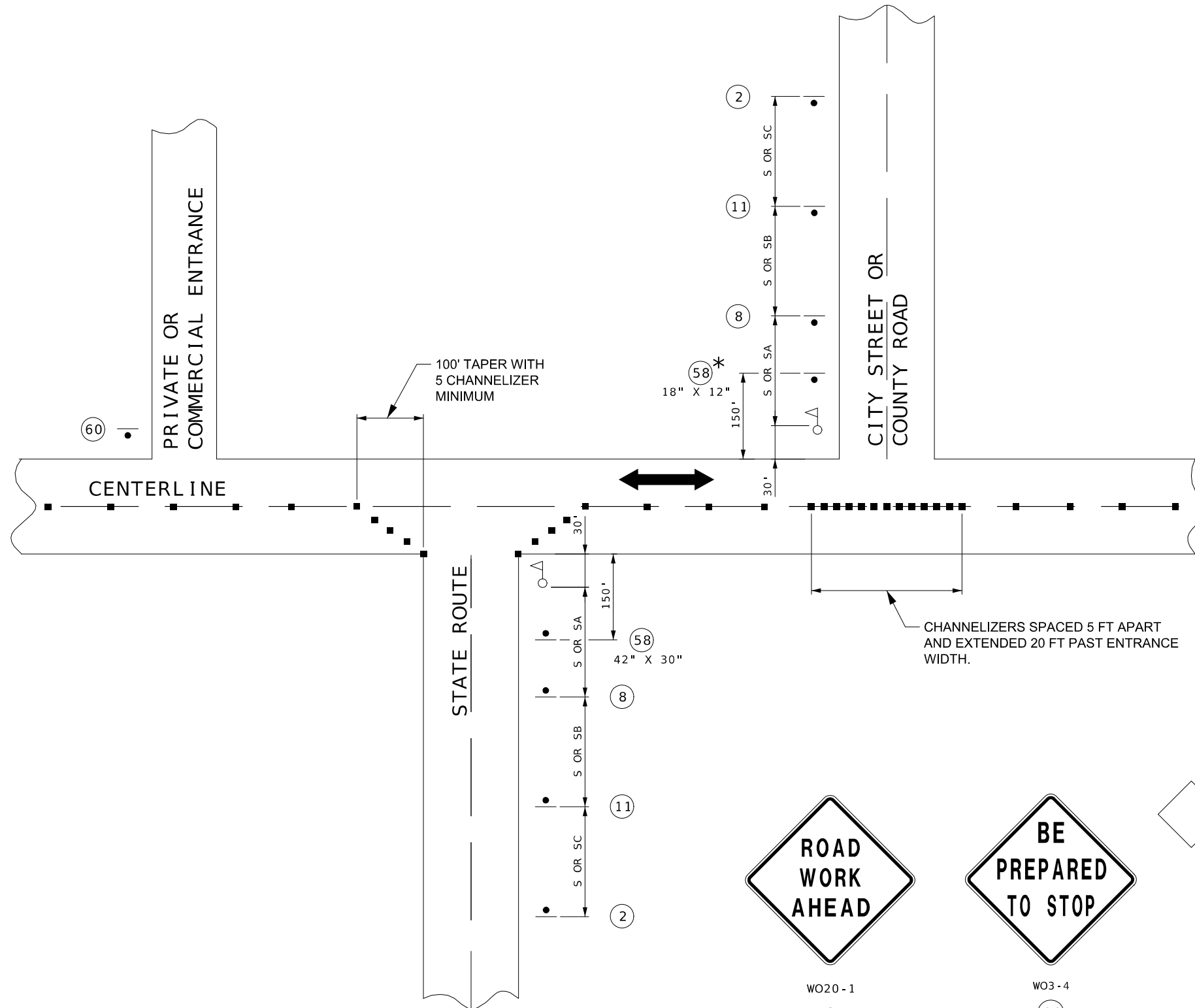
PROJECT NO.  
 BRIDGE NO.

DESCRIPTION	DATE

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

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

### SIDE ROADS ENTERING WORK ZONES



SPEED PERMANENT POSTED (MPH)	SIGN SPACING (FT.)	
	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

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

△ - FLAGGER

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



6020-4a  
(58)

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.).



24" x 18"  
(60)

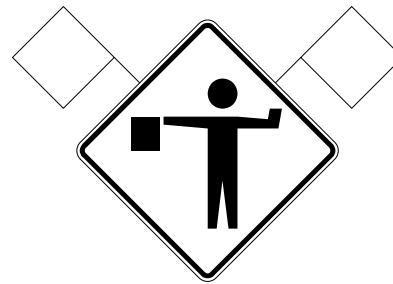
SHALL ONLY BE USED AT PRIVATE AND COMMERCIAL ENTRANCES. SEE STD PLAN 616.10



WO20-1  
2

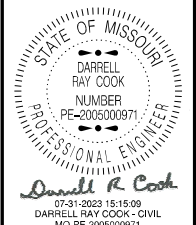


WO3-4  
(11)



WO20-7a  
(8)

NOT TO SCALE



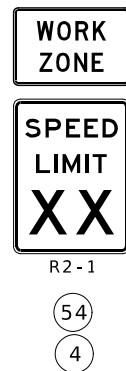
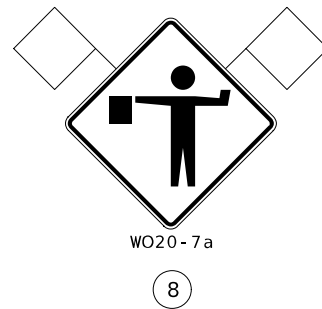
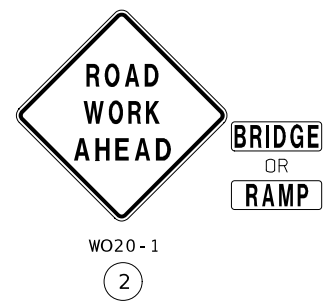
DATE PREPARED	7/28/2023		
ROUTE	76/BU37	STATE	MO
DISTRICT	SW	SHEET NO.	11
COUNTY	MCDONALD/BARRY		
JOB NO.	J7S3447		
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

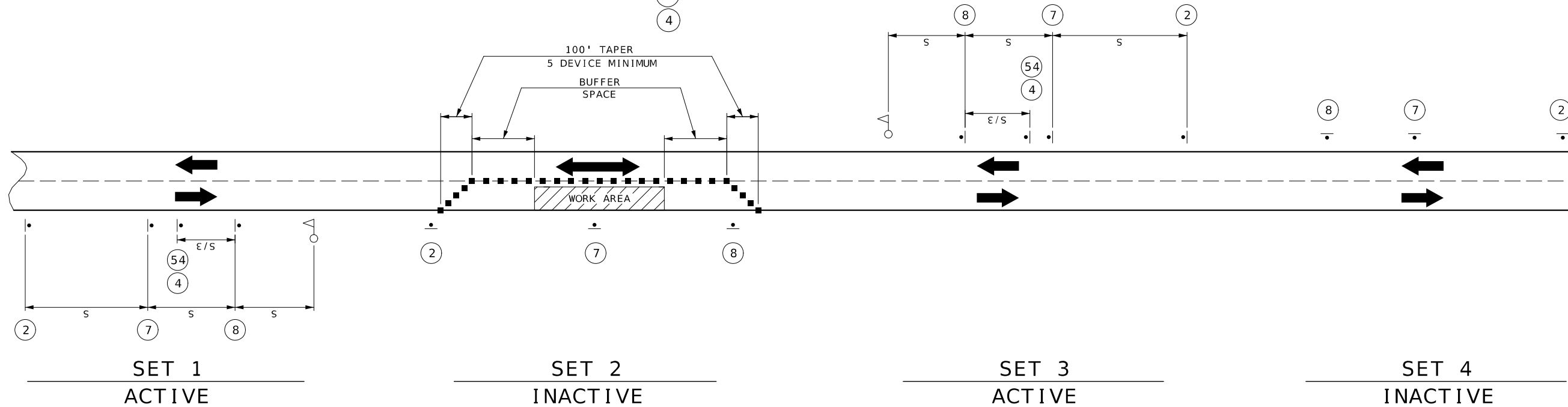
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



WORK ZONE SPEED LIMIT = XX MPH



SIGN 53, "PILOT CAR FOLLOW ME" SHALL BE IN CONTRACTOR'S RESPONSIBILITY WHEN IN USE DURING OPERATION.



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

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

FLAG ASSEMBLIES FOR SIGN W020-7a ARE SUBSIDIARY TO THE SIGN.

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)	CHANNELIZER SPACING (FT)	OPTIONAL
PERMANENT POSTED (MPH)	UNDIVIDED HIGHWAYS (S)	BUFFER/WORK AREAS	BUFFER LENGTH (FT)
0-35	200	40	280
40-45	350	80	400
50-55	500	80	560
60-70	1000	120	840

SPACING NOTES:

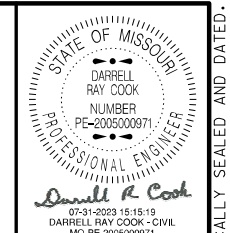
- (1) SPACING BETWEEN SIGNS, BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER OR SIGNED CONDITION.

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS, AS APPROVED BY ENGINEER.

**MOVING FLAGGER OPERATION  
(UNDIVIDED HIGHWAY)**

NOT TO SCALE

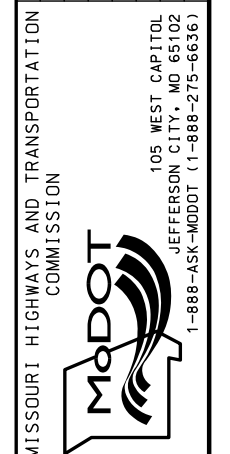
TRAFFIC CONTROL  
SHEET 5 OF 6



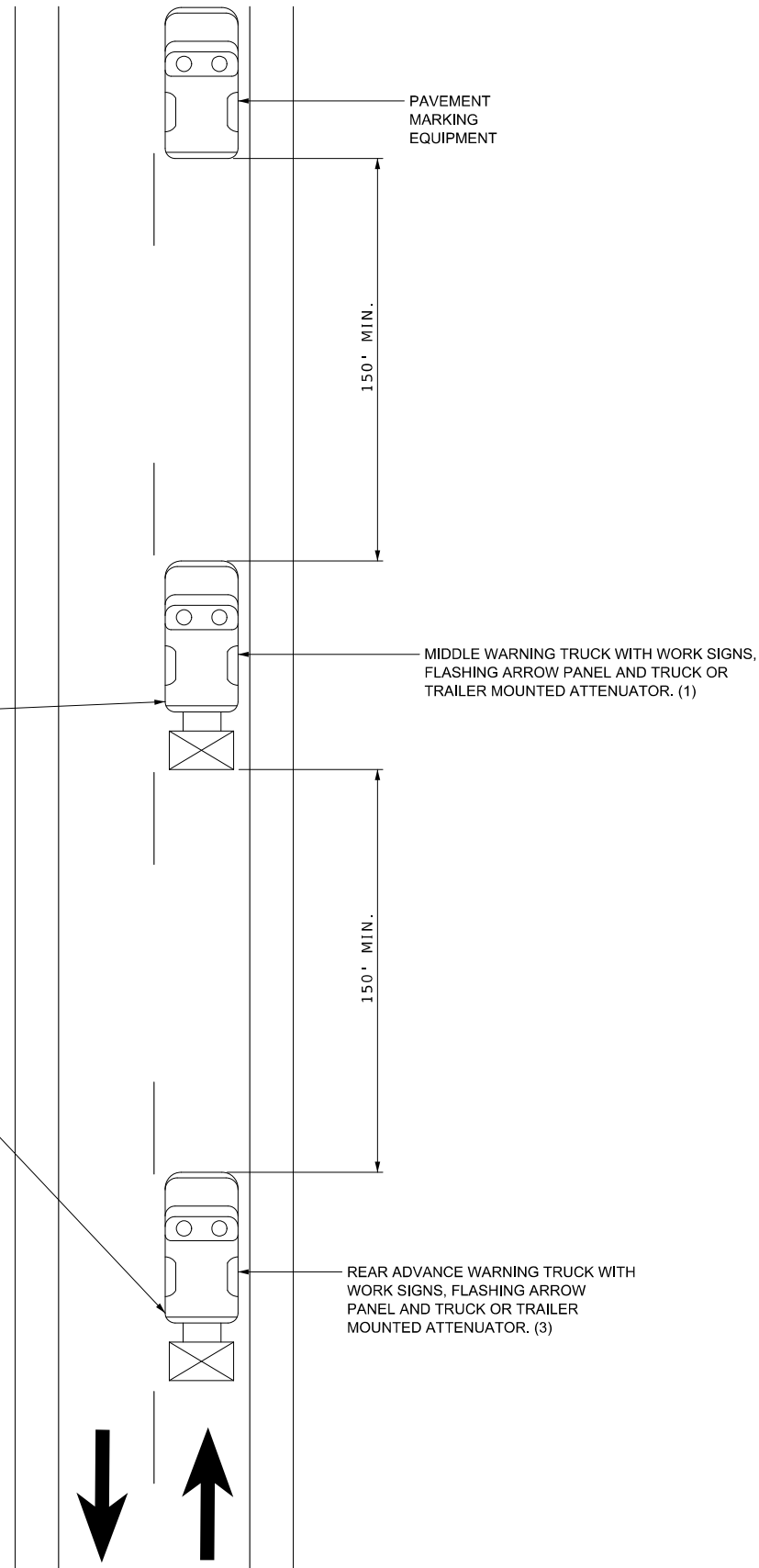
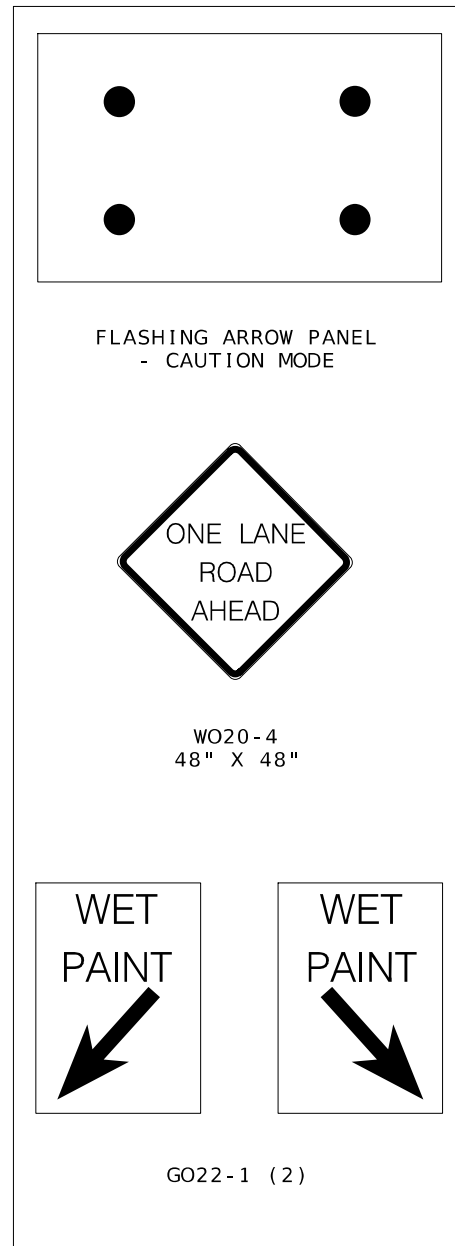
DATE PREPARED: 7/28/2023  
ROUTE: 76/BU37 STATE: MO  
DISTRICT: SW SHEET NO.: 12  
COUNTY: MCDONALD/BARRY  
JOB NO.: J7S3447  
CONTRACT ID.:

PROJECT NO.:  
BRIDGE NO.:

DATE	DESCRIPTION



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



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 AND SIGNS SHALL BE INCIDENTAL TO TRUCK MOUNTED ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT SHALL BE MADE.

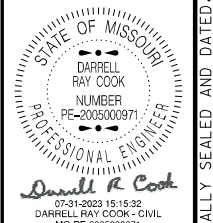
(1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD IS MOUNTED ON THE PAVEMENT MARKING EQUIPMENT.

(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.

NOT TO SCALE

CENTERLINE/EDGELINE STRIPING ON TWO-LANE HIGHWAYS



DATE PREPARED 7/28/2023	
ROUTE 76/BU37	STATE MO
DISTRICT SW	SHEET NO. 13
COUNTY MCDONALD/BARRY	
JOB NO. J7S3447	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

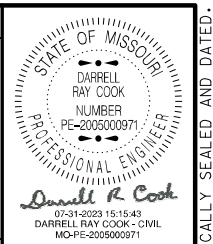
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

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							ITEM NO. 9031010 CY	POST DES. NO.	POST NO. 1 LF	POST NO. 2 LF	POST NO. 3 LF	LBS PER FT	TOTAL ITEM NO. 9031210 LBS	PIPE SIZE IN.	POST NO. 1 LF	POST NO. 2 LF	LBS PER FT	TOTAL ITEM NO. 9031220 LBS		2" x 3/8" BARS @ 2.55 LBS PER FT			ITEM NO. 9031250A LF	2 IN. POST			2.5 IN. POST				BREAK-AWAY ASSEMBLY ITEM NO. 9031241 EA	
SIGN NO.	SIGN SIZE	LOG MILE	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	NO.													LGTH	TOTAL	TOTAL	NO. 1		NO. 2	NO. 3	NO. 1	NO. 2	NO. 1	NO. 2	TOTAL		DRIVEN 12-GA. ITEM NO. 9031270A
1		35.460				0.09																		16	16		1	1	REUSE SPEED LIMIT SIGN AND POST			
2		36.637				0.09																		16	16		1	1	REUSE CURVE LT SIGN AND POST			
3		37.128				0.09																		16	16		1	1	REUSE BRIDGE SIGN AND POST			
4		37.198				0.09																		16	16		1	1	REUSE BRIDGE SIGN AND POST			
5		38.356				0.09																		16	16		1	1	REUSE SPEED LIMIT SIGN AND POST			
6		38.436				0.18																		16	16	2	2	2	REUSE DESTINATION SIGN AND POST			
7		38.697				0.09																		16	16		1	1	REUSE 76 & 86/ ARROW SIGN AND POST			
8		38.757				0.18																		16	16	2	2	2	REUSE DESTINATION SIGN AND POST			
9		39.436				0.09																		16	16		1	1	REUSE CHEVRON SIGN AND POST			
10		39.456				0.09																		16	16		1	1	REUSE CHEVRON SIGN AND POST			
11		39.476				0.09																		16	16		1	1	REUSE CHEVRON SIGN AND POST			
12		39.496				0.09																		16	16		1	1	REUSE CHEVRON SIGN AND POST			
13		43.036				0.09																		16	16		1	1	REUSE CURVE RT SIGN AND POST			
14		45.257				0.09																		16	16		1	1	REUSE REVERSE CURVE RT SIGN AND POST			
SUBTOTAL						1.44																				256		16	16			
TOTAL						1.5																						256		16	16	**



DATE PREPARED  
7/28/2023

ROUTE STATE  
76/BU37 MO

DISTRICT SHEET NO.  
SW 14

COUNTY  
MCDONALD/BARRY

JOB NO.  
J7S3447

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

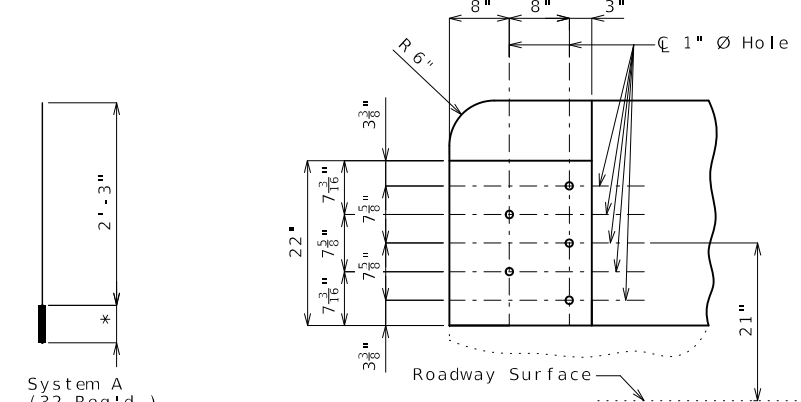
\* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.  
\*\* BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

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

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

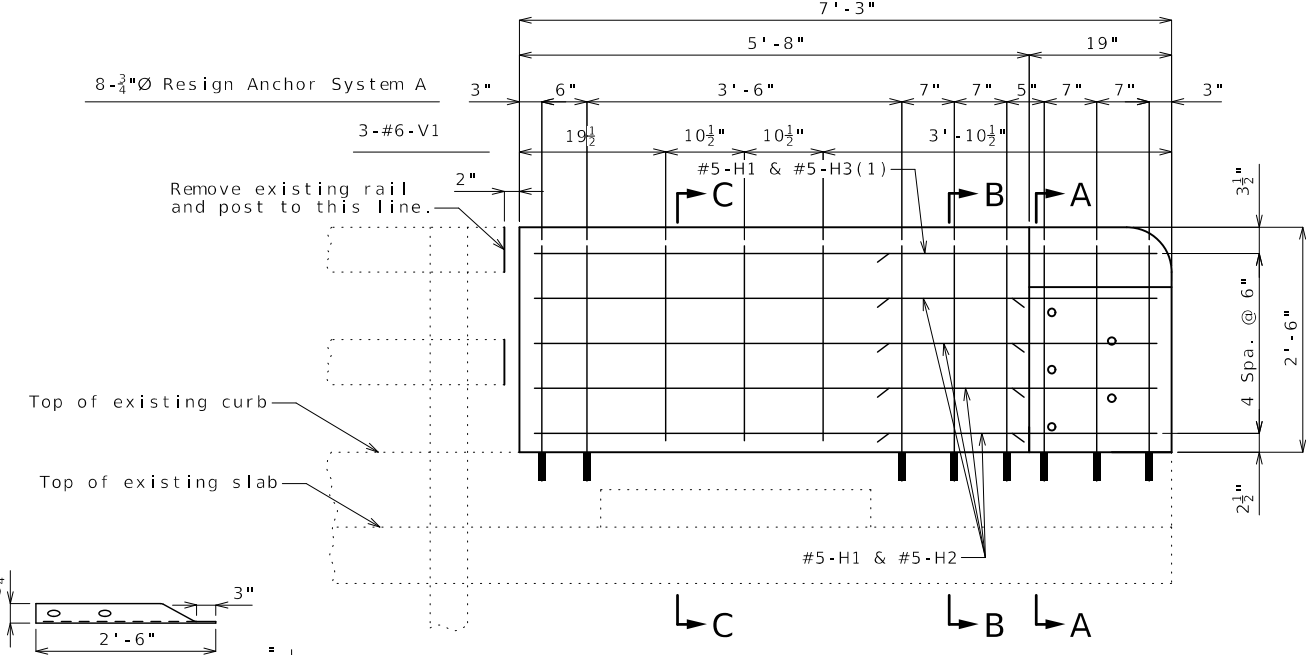
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

U.I.P. AND REHABILITATE 3@ (31') SIMPLE WIDE FLANGE BEAM SPANS (SKEW: SQUARE)



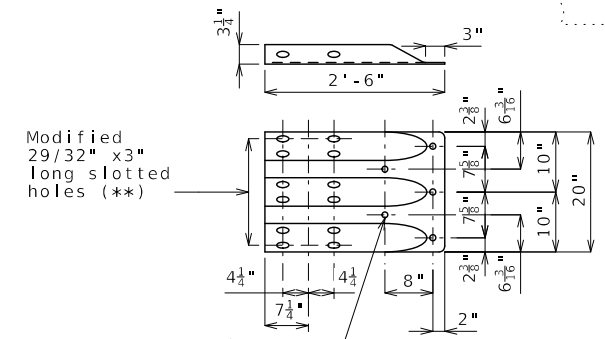
System A (32 Req'd.)  
**DETAILS OF RESIN ANCHOR SYSTEMS**  
 \* Manufacturer's recommended embedment length (5" min.)

**PART ELEVATION SHOWING BRIDGE ANCHOR SECTION ATTACHMENT**



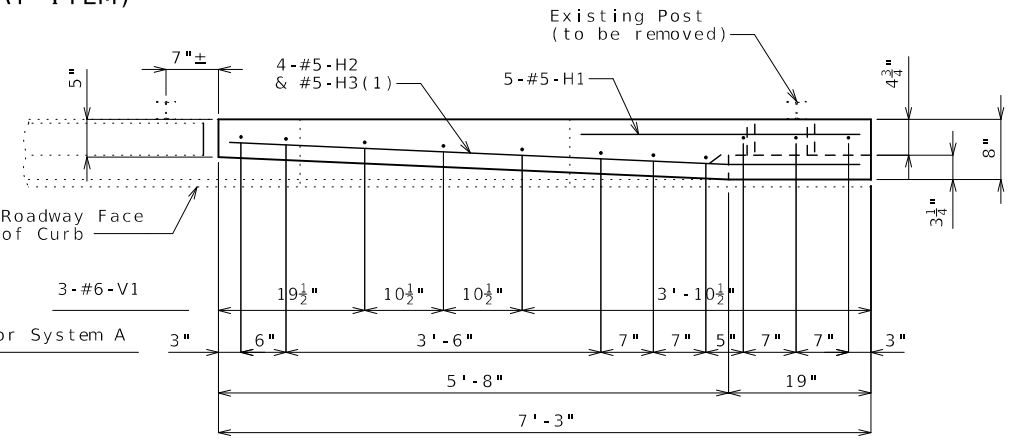
**PART ELEVATION**

(1) Bend in field

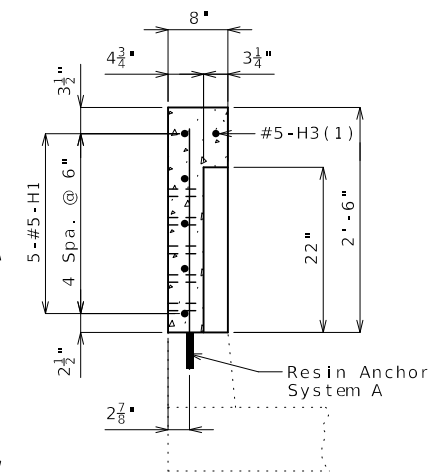


**MODIFIED TERMINAL CONNECTION AT ABUTMENTS (ROADWAY ITEM)**

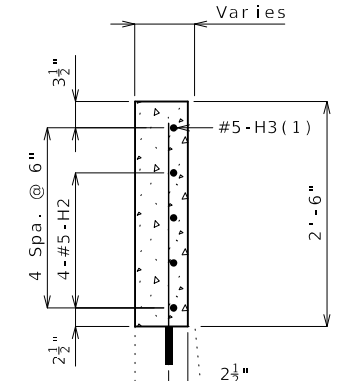
\*\* Tighten bolts, back off 1/2, turn and burr threads  
 \*\* Allow for sliding between Modified Bridge Anchor Section (Thrie Beam) and End Post.



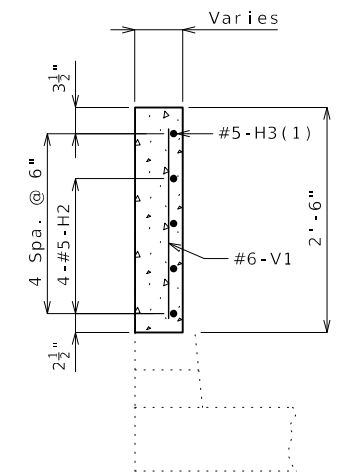
**PART PLAN**



**SECTION A-A**



**SECTION B-B**



**SECTION C-C**

**GENERAL NOTES:**

**Design Specifications:**  
 2002 AASHTO LFD (17th Ed.) Standard Specifications

**Design Unit Stresses:**  
 Class B-1 Concrete  $f'_c = 4,000$  psi  
 Reinforcing Steel (Grade 60)  $f_y = 60,000$  psi

**Reinforcing Steel**  
 Minimum clearance to reinforcing steel shall be minimum 1 1/2", unless otherwise shown.

**Resin Anchors**  
 The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

The minimum embedment depth in concrete with  $f'_c = 4,000$  psi for the resin anchor system shall be that required to meet the minimum ultimate pull out strength in accordance with Sec 1039 but shall not be less than 5".

An epoxy coated #6 Grade 60 reinforcing bar shall be substituted for the 3/4" diameter threaded rod.

Cost of furnishing and installing the resin anchor system, complete in place, will be considered completely covered by the contract unit price for End Post Modification.

**Miscellaneous**  
 All exposed edges of end post shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise shown.

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 materials.

Cost of removing existing rail and posts will be considered completely covered by the contract unit price for End Post Modification.

Ends of bridge rail at removal points shall be ground smooth. The ends of the rail and any areas of the rail scratched or damaged by the contractor's operations shall be touched up with Gray Epoxy-Mastic Primer in accordance with Sec 1081.

**Traffic Handling:**  
 One lane of traffic shall remain open during construction. See roadway plans for traffic control.

Estimated Quantities		
Item	each	Total
End Post Modification	each	4

**REPAIRS TO BRIDGE: ROUTE 76 OVER DRY BRANCH**  
 ROUTE 76 FROM ROUTE 86 TO ROUTE U  
 ABOUT 1.5 MILES WEST OF ROUTE 86  
 BEGINNING STATION 1214+85.00 ± (MATCH EXISTING)

DATE PREPARED: 7/10/2023

ROUTE 76 STATE MO DISTRICT BR SHEET NO. 1 COUNTY MCDONALD JOB NO. 17S3447 CONTRACT ID. PROJECT NO. BRIDGE NO. J03711

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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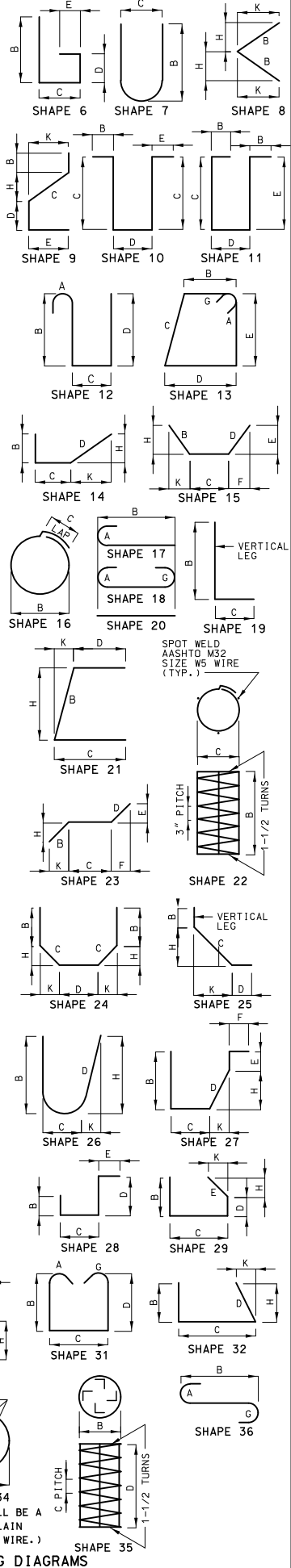


**BILL OF REINFORCING STEEL**

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	DIMENSIONS								NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
								B	C	D	E	F	H	K				
								FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.			
		END POSTS																
20	5 H1	END POST	E	20				3	0.000					3	0	3	0	63
16	5 H2	END POST	E	20				5	5.000					5	5	5	5	90
4	5 H3	END POST	E	20				6	11.000					6	11	6	11	29
12	6 V1	END POST	E	20				2	2.000					2	2	2	2	39
		TOTALS																
	5		E															182
	6		E															39
		TOTAL																0
		TOTAL	E															221

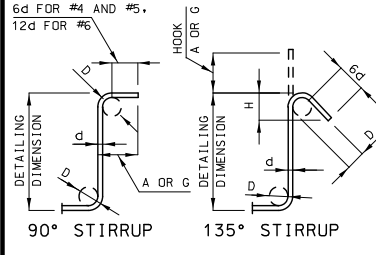
**BILL OF REINFORCING STEEL**

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	DIMENSIONS								NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
								B	C	D	E	F	H	K				
								FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.			



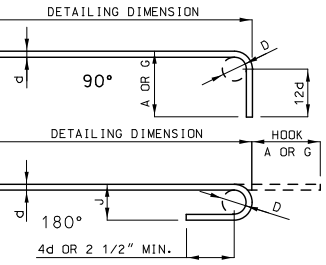
DATE PREPARED: 7/10/2023  
 ROUTE: 76, STATE: MO  
 DISTRICT: BR, SHEET NO.: 2

COUNTY: MCDONALD  
 JOB NO.: J7S3447  
 CONTRACT ID.:  
 PROJECT NO.:  
 BRIDGE NO.: J03711



BAR SIZE	D (IN.)	90° HOOK		135° HOOK		APPROX. H
		A OR G	H	A OR G	H	
#4	2"	4 1/2"	4 1/2"	4 1/2"	3"	
#5	2 1/2"	6"	5 1/2"	3 3/4"		
#6	4 1/2"	12"	8"	4 1/2"		

NOTE: UNLESS OTHERWISE NOTED, DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



BAR SIZE	D (IN.)	ALL GRADES			
		180° HOOKS		90° HOOKS	
		A OR G	J	A OR G	H
#3	2 1/4"	5"	3"	6"	
#4	3"	6"	4"	8"	
#5	3 3/4"	7"	5"	10"	
#6	4 1/2"	8"	6"	12"	
#7	5 1/4"	10"	7"	14"	
#8	6"	11"	8"	16"	
#9	9 1/2"	15"	11 3/4"	19"	
#10	10 3/4"	17"	13 1/4"	22"	
#11	12"	19"	14 3/4"	2'-0"	
#14	18 1/4"	2'-3"	21 3/4"	2'-7"	

**NOTE:**  
 ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS.  
 HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.  
 EF = EPOXY COATED REINFORCEMENT.  
 S = STIRRUP.  
 X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.  
 V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.  
 NO. EA. = NUMBER OF BARS OF EACH LENGTH.  
 NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)  
 ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.  
 PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.  
 FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS.  
 REINFORCING STEEL (GRADE 60) FY = 60,000 PSI.

Detailed June 2023  
 Checked June 2023

Note: This drawing is not to scale. Follow dimensions.

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