DESIGN DESIGNATION

VARIOUS ROUTES

A.A.D.T. - 2025 = VARIOUS

V = VARIOUS

NO NEW RIGHT-OF-WAY REQUIRED

CONVENTIONAL SYMBOLS

(USED IN PLANS)

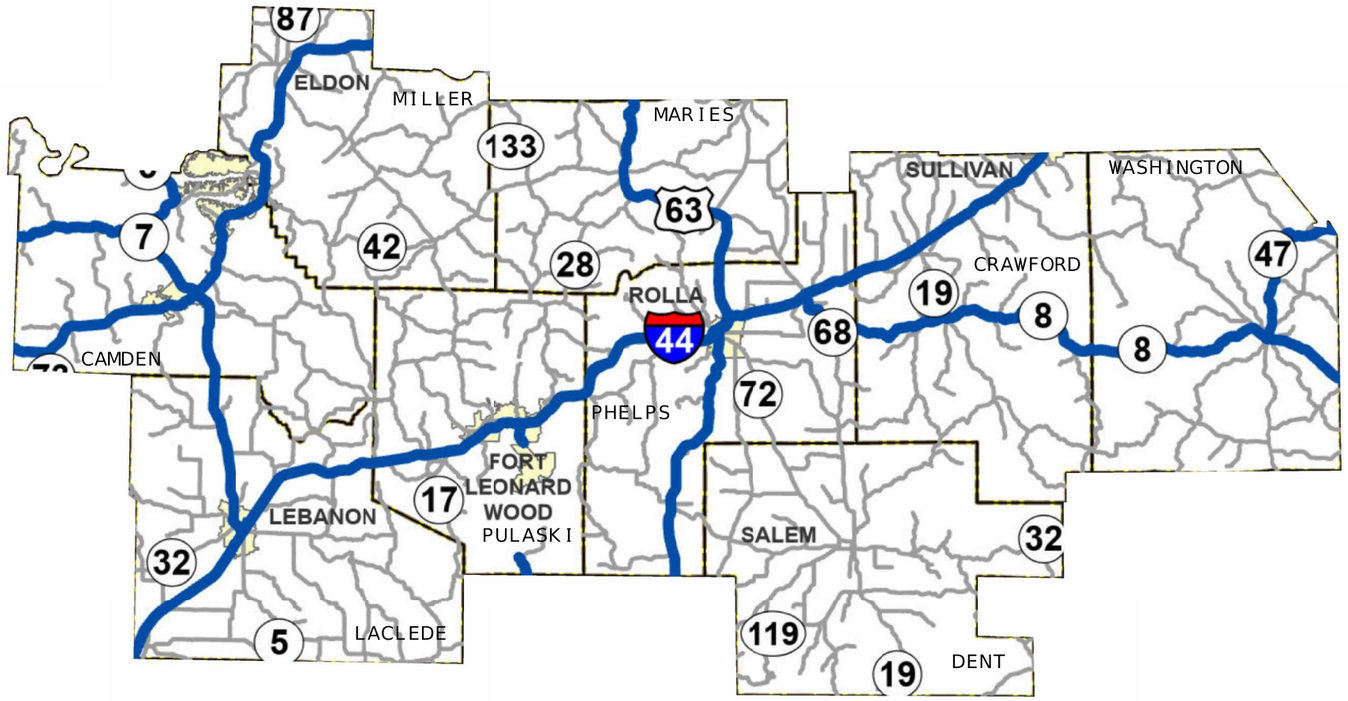
	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	FO
OVERHEAD CABLE TV	-OTV-	OTV
UNDERGROUND CABLE TV	-UTV-	UTV
OVERHEAD TELEPHONE	-OT-	OT
UNDERGROUND TELEPHONE	-UT-	UT
OVERHEAD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

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY

VARIOUS COUNTIES



JOB ORDER CONTRACTING FOR GUARDRAIL IMPROVMENTS

NOT TO SCALE

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
SPECIAL SHEETS (SS)	2
TRAFFIC CONTROL SHEETS (TC)	3-11

STATE OF MISSOURI
GIDGET J. KOESTNER
NUMBER PE-2006019694
PROFESSIONAL ENGINEER
07/31/2025 11:37:40 AM
GIDGET J. KOESTNER - CIVIL
MO-PE-2006019694

DATE PREPARED: 6/29/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
CD	1

COUNTY: VARIOUS

JOB NO.: JST0141

CONTRACT ID.:

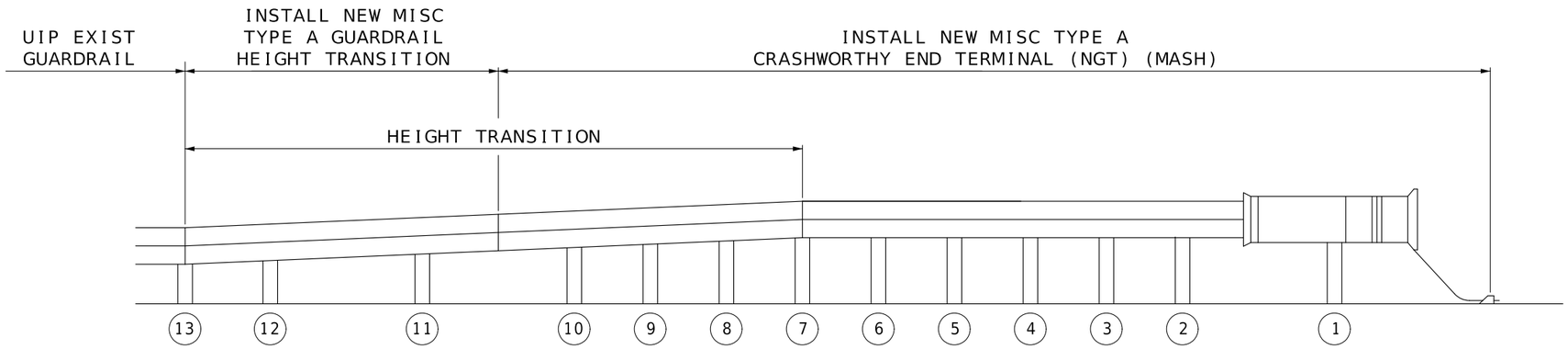
PROJECT NO.:

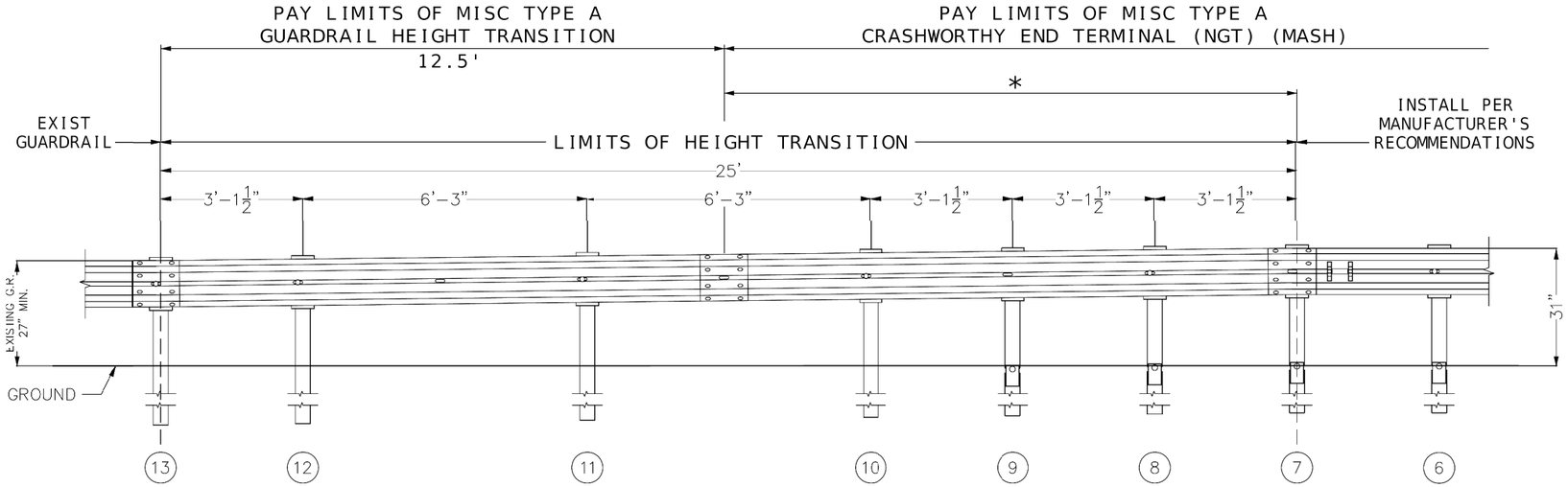
BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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





NOTE:
GUARDRAIL INSTALLATION SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS/SPECIFICATIONS/DRAWINGS UNLESS OTHERWISE NOTED IN THE PLANS AND/OR JOB SPECIAL PROVISIONS.

* TRANSITION HEIGHT FROM POST 7 THROUGH POST 10 AND MID-SPAN SPLICE. INSTALLATION IS MODIFIED FROM TYPICAL MANUFACTURER'S RECOMMENDATIONS.

DRAWING NOT TO SCALE. FOLLOW DIMENSIONS

STATE OF MISSOURI
GIDGET J. KOESTNER
NUMBER PE-2009019694
PROFESSIONAL ENGINEER
07/31/2026 11:40:59 AM
GIDGET J KOESTNER - CIVIL
MO-PE-2009019694

DATE PREPARED
6/29/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
CD	2

COUNTY
VARIOUS

JOB NO.
JST0141

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)

TYPE A CRASHWORTHY END TERMINAL - NEXT GENERATION TERMINAL(NGT) (MASH) & TYPE A GUARDRAIL HEIGHT TRANSITION

SPECIAL SHEET 1 OF 1

Sign Spacing, Device Spacing and Channelizing Taper Lengths

SIGN SPACING (S) FOR ADVANCE SIGN SERIES (1) (2)		
SPEED MPH	UNDIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	1000	SA-1000 SB-1500 SC-2640

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
SPEED MPH	MINIMUM TAPER LENGTHS (L) FOR LANE WIDTHS (W)			MAXIMUM CHANNELIZER SPACING	
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA
0-35	205	225	245	35	40
40-45	450	495	540	40	80
50-55	550	605	660	50	80
60-70	700	770	840	60	120

NOTES:

DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

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

(2) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS

LONGITUDINAL BUFFER SPACE (B)	
SPEED MPH	BUFFER SPACE
0-35	250
40-45	360
50-55	495
60-70	730

TAPER LENGTH (L):

L = WS FOR 40 MPH OR MORE

$L = \frac{WS^2}{60}$ FOR 35 MPH OR LESS

FOR SHOULDER TAPER USE L/3

WHERE:

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

S = POSTED SPEED IN MPH

TRAFFIC CONTROL DEVICES

GENERAL NOTES:

1. SEE STANDARD PLAN 616.10 FOR DETAILS AND ITEMS NOT SHOWN
2. EXISTING SIGNS SHALL BE COVERED DURING WORKING HOURS ONLY IF IN CONFLICT WITH TRAFFIC CONTROL PLANS.
3. NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING OR REMOVING SIGNS.
4. CONES ALLOWABLE FOR DAYTIME OPERATIONS ONLY.
6. LOCATE FLASHING ARROW PANEL AT BEGINNING OF TAPER WHEN FEASIBLE, ARROW PANELS ARE ALWAYS LOCATED BEHIND CHANNELIZERS OR CONES.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- DIRECTION INDICATOR BARRICADE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- FLASHING ARROW PANEL
- TMA (TRUCK MOUNTED ATTENUATOR) WITH FLASHING ARROW PANEL

STATE OF MISSOURI
GIDGET J. KOESTNER
NUMBER PE-2006019694
PROFESSIONAL ENGINEER
07/31/2026 11:41:50 AM
GIDGET J. KOESTNER - CIVIL
MO-PE-2006019694

DATE PREPARED: 6/29/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
CD	3

COUNTY: VARIOUS

JOB NO.: JST0141

CONTRACT ID.:

PROJECT NO.:

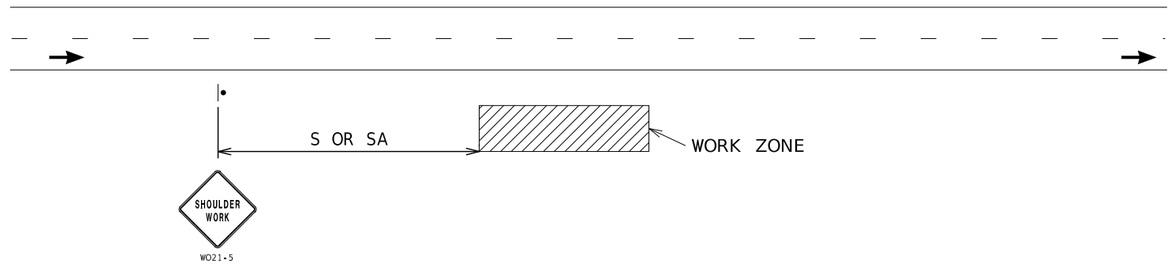
BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL
SHEET 1 OF 9



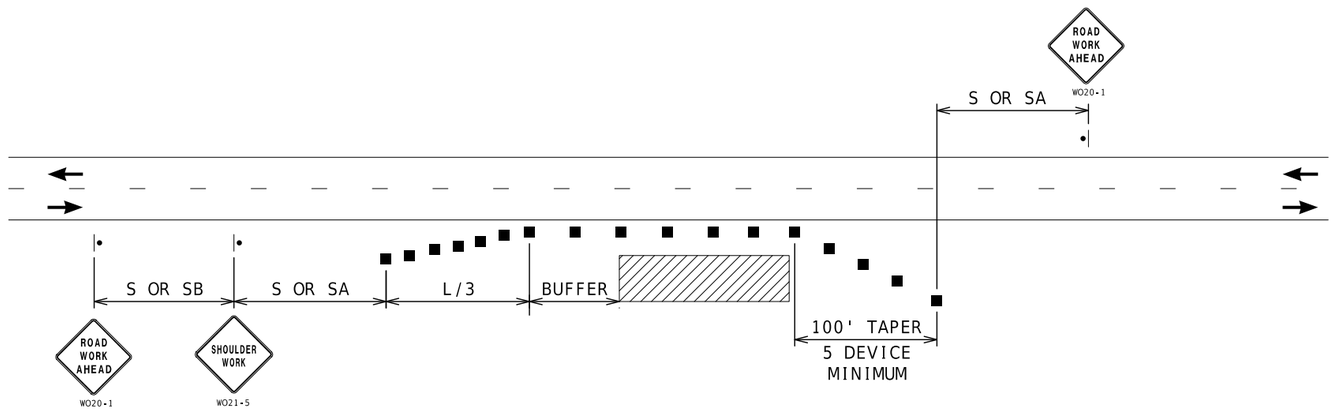
WORK BEYOND SHOULDER - UNDIVIDED OR DIVIDED ROADWAYS

USED FOR WORK THAT OCCURS OFF THE ROADWAY SHOULDER BUT WITHIN THE CLEAR ZONE.
NOT TO BE USED WHEN WORK VEHICLES ARE PARKED ALONG THE SHOULDER EVEN WHEN
THE WORK IS BEING PERFORMED OFF THE SHOULDER.

NOTES:

SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.

NOT TO SCALE



SHOULDER WORK - UNDIVIDED ROADWAYS

USED FOR WORK ON SHOULDER OR FOR WORK OFF SHOULDER
WITH WORK VEHICLES PARKED ON THE SHOULDER.

NOTES:

SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.

NOT TO SCALE

STATE OF MISSOURI
GIDGET J. KOESTNER
NUMBER PE-2006019694
PROFESSIONAL ENGINEER
07/31/2026 11:42:36 AM
GIDGET J. KOESTNER - CIVIL
MO-PE-2006019694

DATE PREPARED: 6/29/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
CD	4

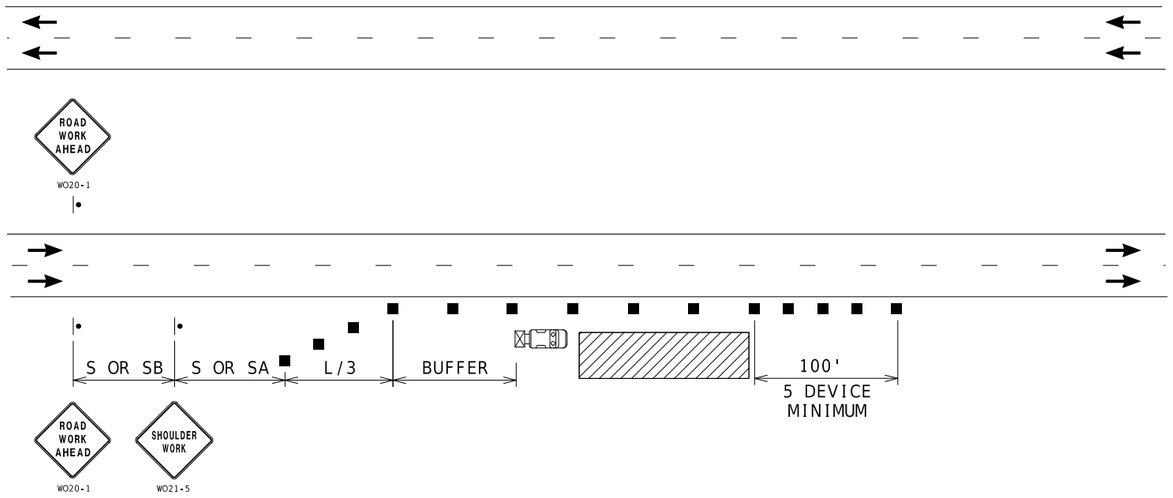
COUNTY: VARIOUS
JOB NO.: JST0141
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL
SHEET 2 OF 9



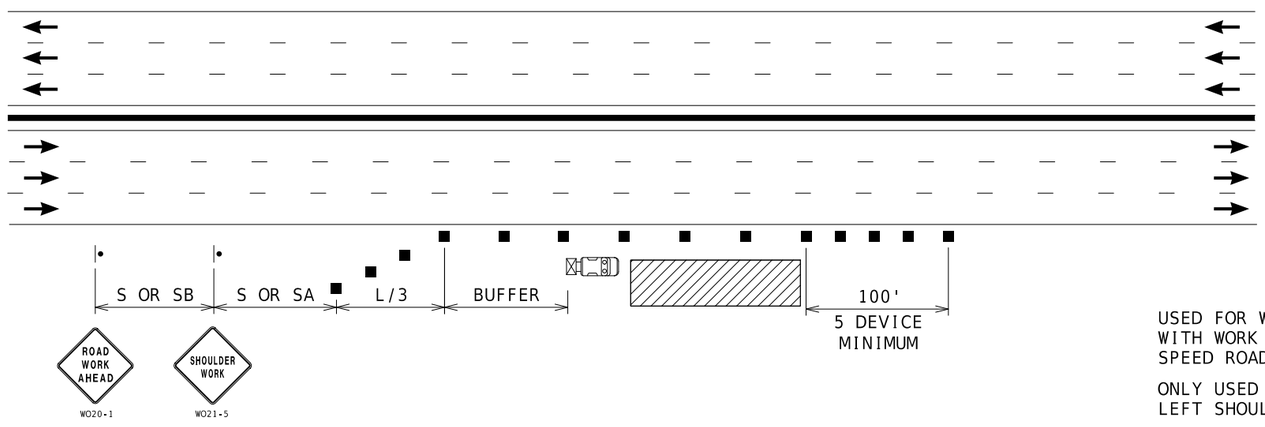
RIGHT SHOULDER WORK- HIGH SPEED DIVIDED ROADWAYS

NOTES:

SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.

USED FOR WORK ON SHOULDER OR FOR WORK OFF SHOULDER
WITH WORK VEHICLES PARKED ON THE SHOULDER OF A HIGH SPEED ROADWAY.

NOT TO SCALE



USED FOR WORK ON SHOULDER OR FOR WORK OFF SHOULDER WITH WORK VEHICLES PARKED ON THE SHOULDER OF A HIGH SPEED ROADWAY.

ONLY USED FOR SIX OR MORE LANE FREEWAYS WITH NARROW LEFT SHOULDER ADJACENT TO CONCRETE MEDIAN BARRIER

RIGHT SHOULDER WORK
MULTI-LANE FREEWAYS WITH MEDIAN BARRIER

NOTES:

SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.

NOT TO SCALE

STATE OF MISSOURI
GIDGET J. KOESTNER
NUMBER PE-2006019694
PROFESSIONAL ENGINEER
07/31/2026 11:43:28 AM
GIDGET J. KOESTNER - CIVIL
MO-PE-2006019694

DATE PREPARED
6/29/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
CD	5

COUNTY
VARIOUS

JOB NO.
JST0141

CONTRACT ID.

PROJECT NO.

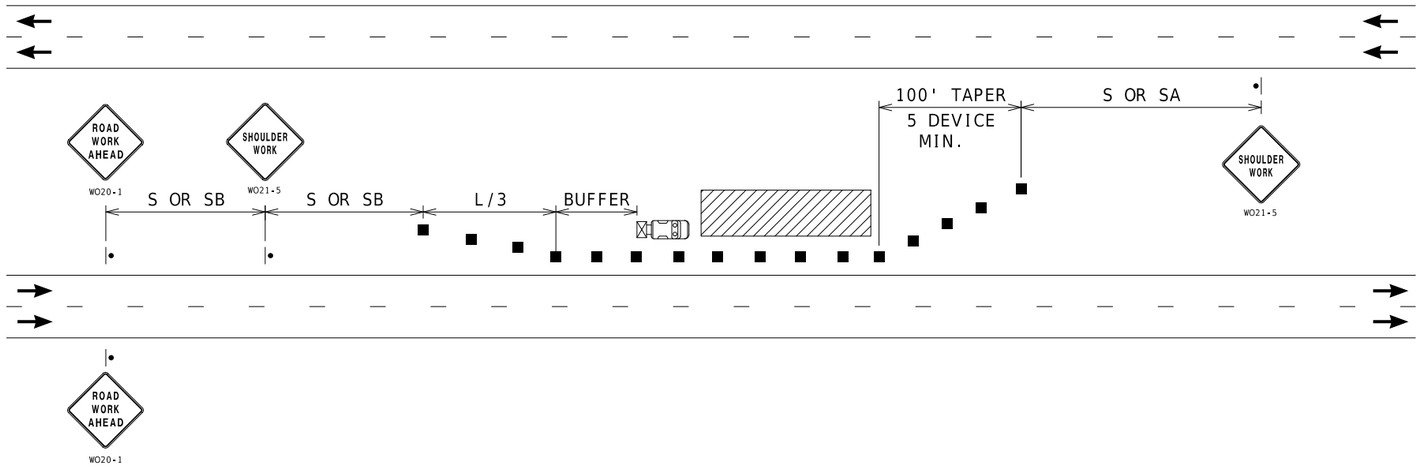
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL
SHEET 3 OF 9



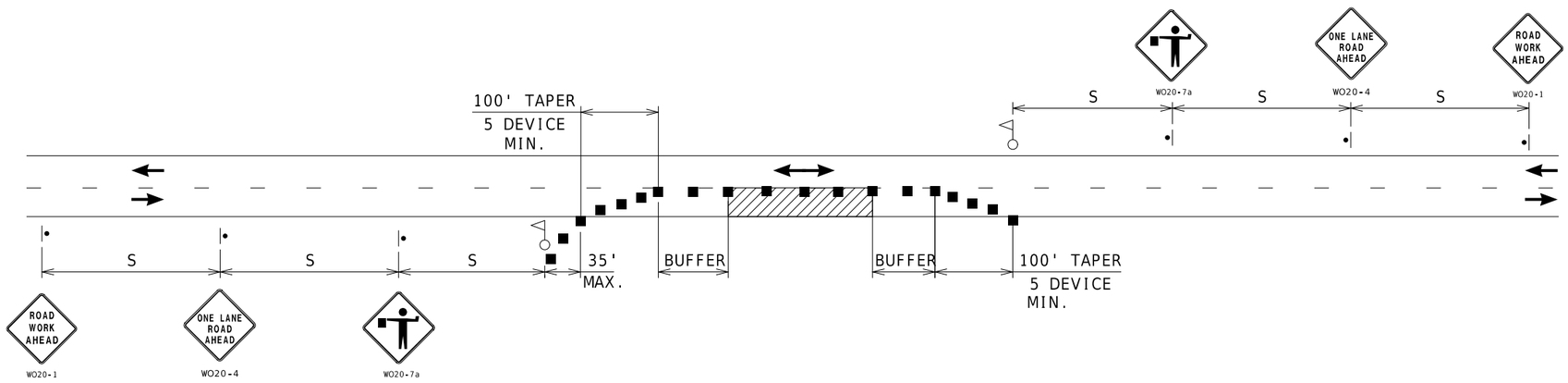
LEFT SHOULDER WORK- HIGH SPEED DIVIDED ROADWAYS

USED FOR WORK ON SHOULDER OR FOR WORK OFF SHOULDER
WITH WORK VEHICLES PARKED ON THE SHOULDER OF A HIGH SPEED ROADWAY.

NOTES:

SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.

NOT TO SCALE



ONE-LANE TWO-WAY OPERATION WITH FLAGGERS

A MINIMUM OF TWO FLAGGERS WILL BE REQUIRED TO DIRECT TRAFFIC.
ADDITIONAL FLAGGERS MAY BE REQUIRED WHEN WORKING AT INTERSECTING
STREETS OR RAMPS AS DIRECTED BY THE ENGINEER. NO DIRECT PAYMENT
WILL BE MADE FOR FLAGGERS

NOTES:

SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.

NOT TO SCALE

STATE OF MISSOURI
GIDGET J. KOESTNER
NUMBER PE-2006019694
PROFESSIONAL ENGINEER
07/31/2026 11:44:18 AM
GIDGET J. KOESTNER - CIVIL
MO-PE-2006019694

DATE PREPARED
6/29/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
CD	6

COUNTY
VARIOUS

JOB NO.
JST0141

CONTRACT ID.

PROJECT NO.

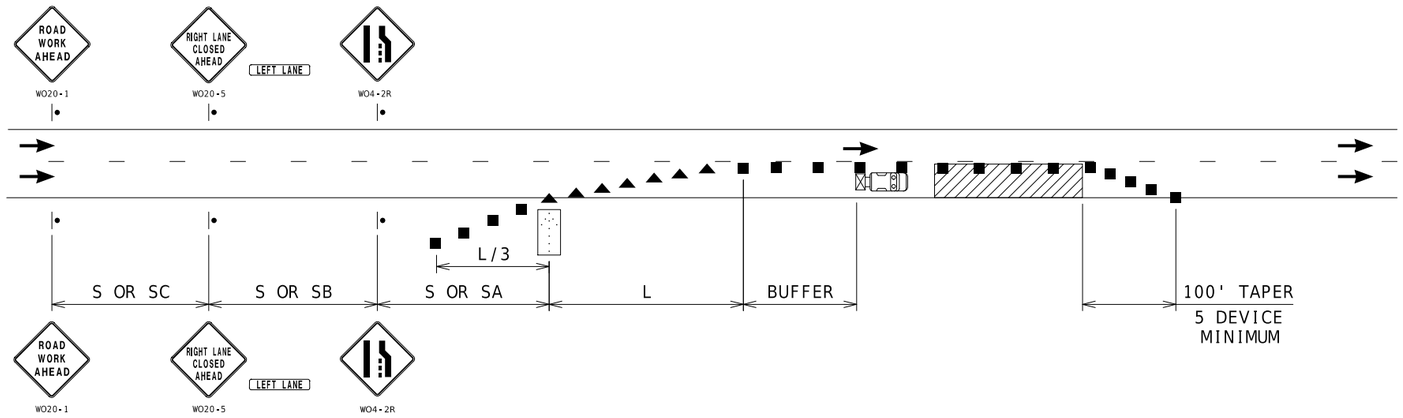
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL
SHEET 4 OF 9

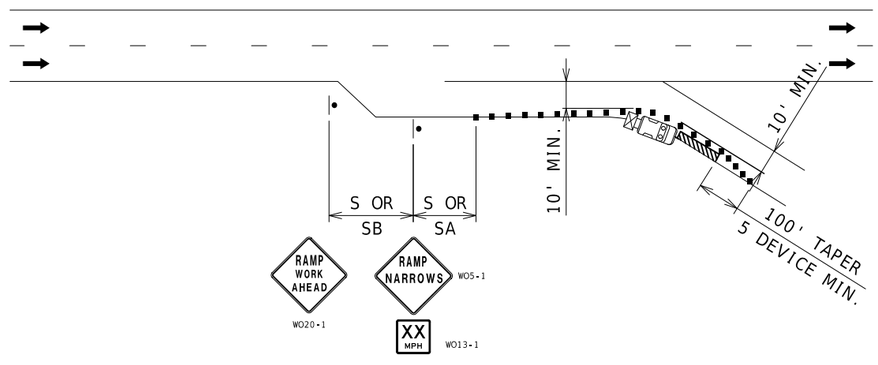


SINGLE LANE CLOSURE

NOTES:

SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.

NOT TO SCALE



PARTIAL RAMP CLOSURE

NOTES:

SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.

NOT TO SCALE

STATE OF MISSOURI
GIDGET J. KOESTNER
NUMBER PE-2009019694
PROFESSIONAL ENGINEER
07/31/2026 11:45:04 AM
GIDGET J KOESTNER - CIVIL
MO-PE-2009019694

DATE PREPARED
6/29/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
CD	7

COUNTY
VARIOUS

JOB NO.
JST0141

CONTRACT ID.

PROJECT NO.

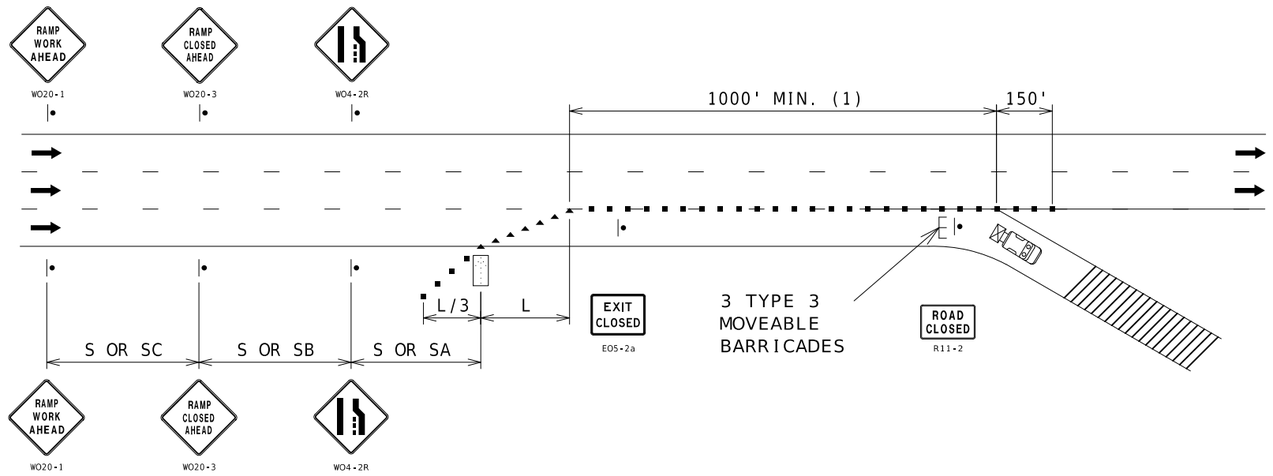
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL
SHEET 5 OF 9



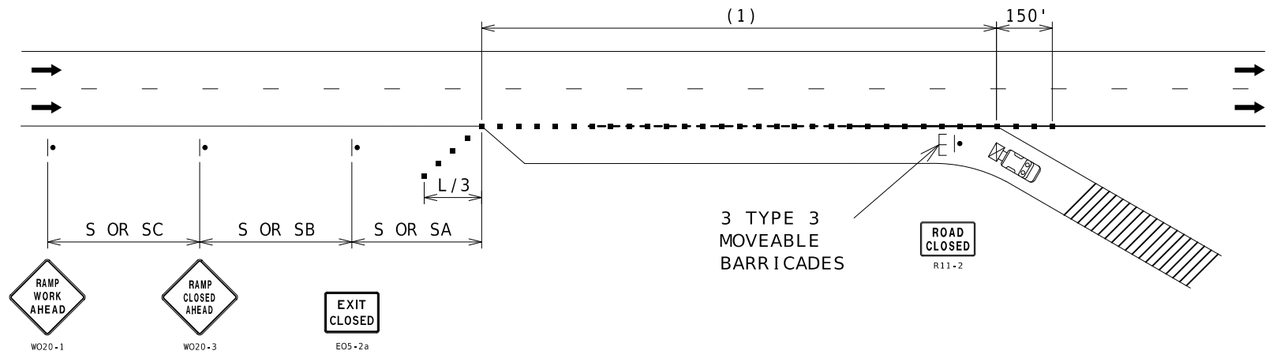
NOTES:

SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.

(1) CHANNELIZER SPACING AT 50'.

RAMP CLOSURE

NOT TO SCALE



NOTES:

SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.

(1) CHANNELIZER SPACING AT 50'.

RAMP CLOSURE

NOT TO SCALE

STATE OF MISSOURI
GIDGET J. KOESTNER
NUMBER PE-2006019694
PROFESSIONAL ENGINEER
07/31/2026 11:46:00 AM
GIDGET J. KOESTNER - CIVIL
MO-PE-2006019694

DATE PREPARED: 6/29/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
CD	8

COUNTY: VARIOUS

JOB NO.: JST0141

CONTRACT ID.:

PROJECT NO.:

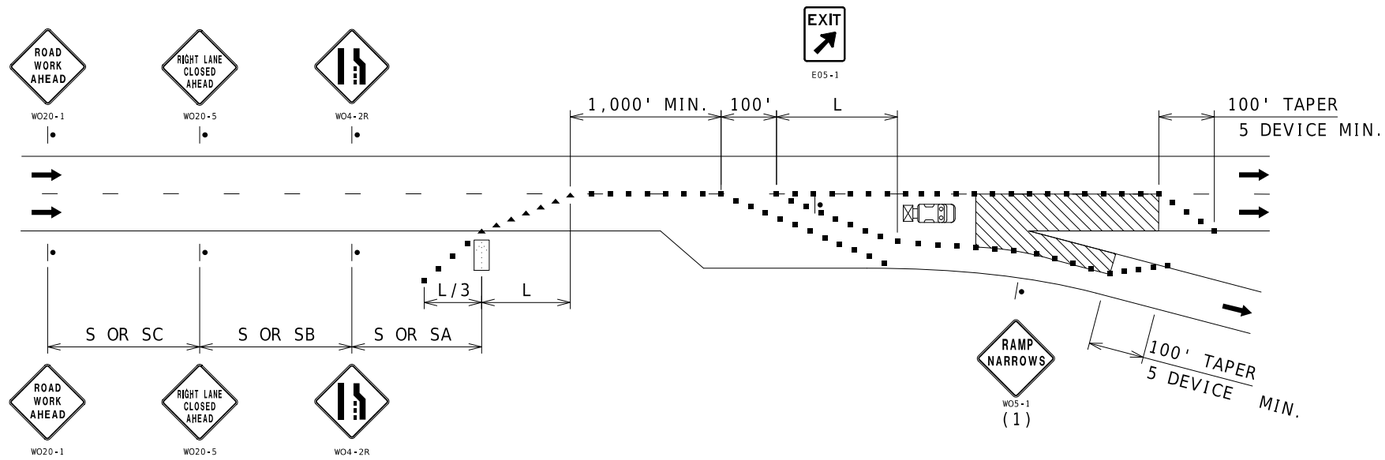
BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL
SHEET 6 OF 9



NOTES:

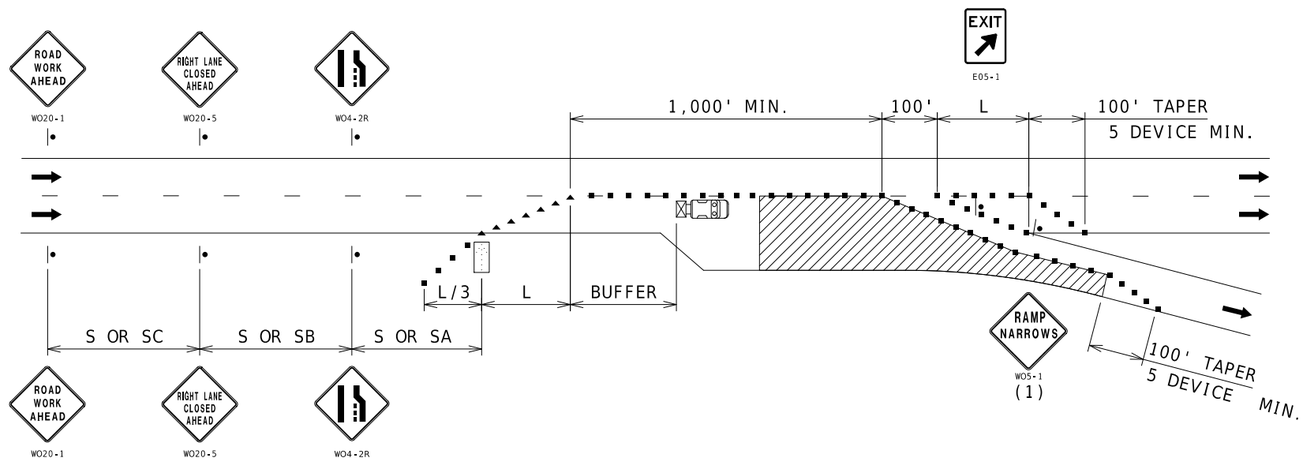
SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.

(1) SIGN ONLY REQUIRED WHEN RAMP WIDTH IS REDUCED.

(2) CHANNELIZER SPACING AT 50'.

EXIT RAMP AREA
MAINLINE WORK

NOT TO SCALE



NOTES:

SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.

(1) SIGN ONLY REQUIRED WHEN RAMP WIDTH IS REDUCED.

(2) CHANNELIZER SPACING AT 50'.

EXIT RAMP AREA
DECELERATION LANE WORK

NOT TO SCALE

STATE OF MISSOURI
GIDGET J. KOESTNER
NUMBER PE-2006019694
PROFESSIONAL ENGINEER
07/31/2026 11:46:43 AM
GIDGET.J.KOESTNER - CIVIL
MO-PE-2006019694

DATE PREPARED	6/29/2026
ROUTE	VAR
STATE	MO
DISTRICT	CD
SHEET NO.	9
COUNTY	VARIOUS
JOB NO.	JST0141
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

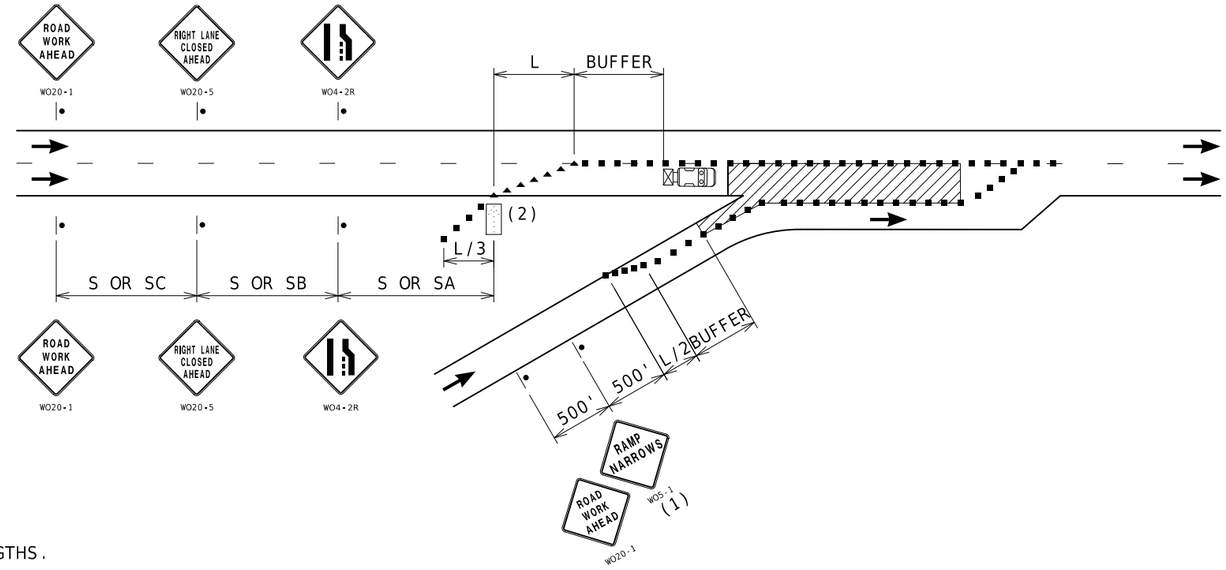
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL
SHEET 7 OF 9



NOTES:

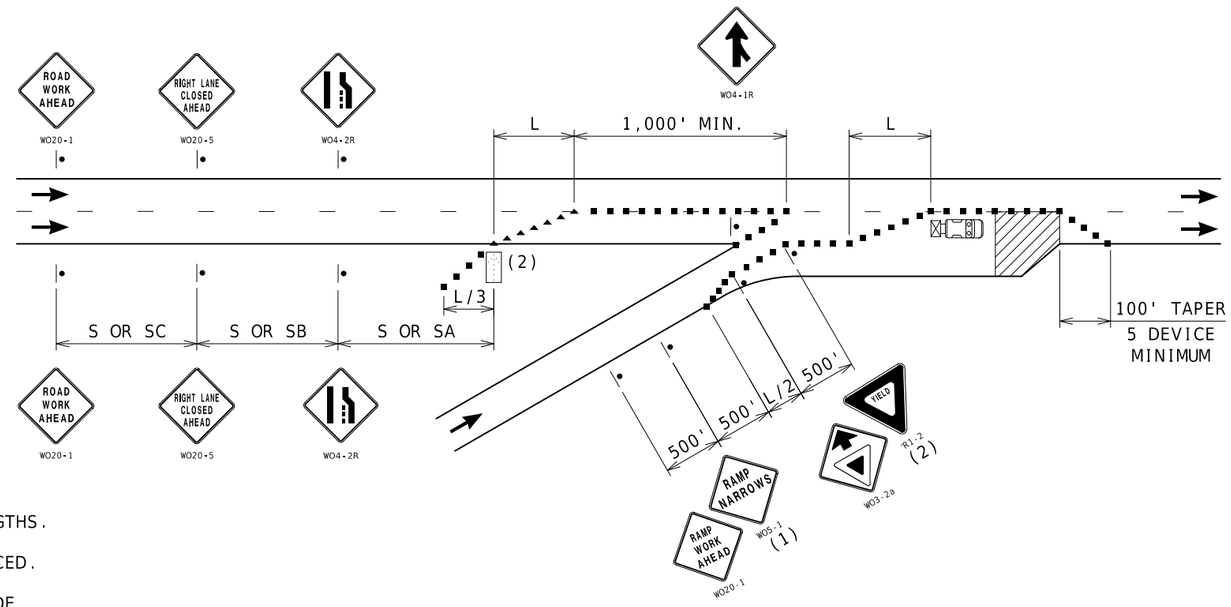
SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.

(1) SIGN ONLY REQUIRED WHEN RAMP WIDTH IS REDUCED.

(2) THE LOCATION OF THE SIGN SEQUENCE AND MERGE TAPER SHOULD BE ADJUCSTED SO THAT THE ARROW PANEL LOCATION IS NOT CONFUSING TO MOTORIST ON THE RAMP.

ENTRANCE RAMP AREA
MAINLINE WORK

NOT TO SCALE



NOTES:

SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.

(1) SIGN ONLY REQUIRED WHEN RAMP WIDTH IS REDUCED.

(2) SIGN SHOULD BE PLACED ON THE RAMP TO PROVIDE ADEQUATE VISIBILITY OF MAINLINE TRAFFIC.

(3) THE LOCATION OF THE SIGN SEQUENCE AND MERGE TAPER SHOULD BE ADJUCSTED SO THAT THE ARROW PANEL LOCATION IS NOT CONFUSING TO MOTORIST ON THE RAMP.

ENTRANCE RAMP AREA
ACCELERATION LANE WORK

NOT TO SCALE

STATE OF MISSOURI
GIDGET J. KOESTNER
NUMBER
PE-2006019694
PROFESSIONAL ENGINEER
07/31/2026 11:47:24 AM
GIDGET J. KOESTNER - CIVIL
MO-PE-2006019694

DATE PREPARED
6/29/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
CD	10

COUNTY
VARIOUS

JOB NO.
JST0141

CONTRACT ID.

PROJECT NO.

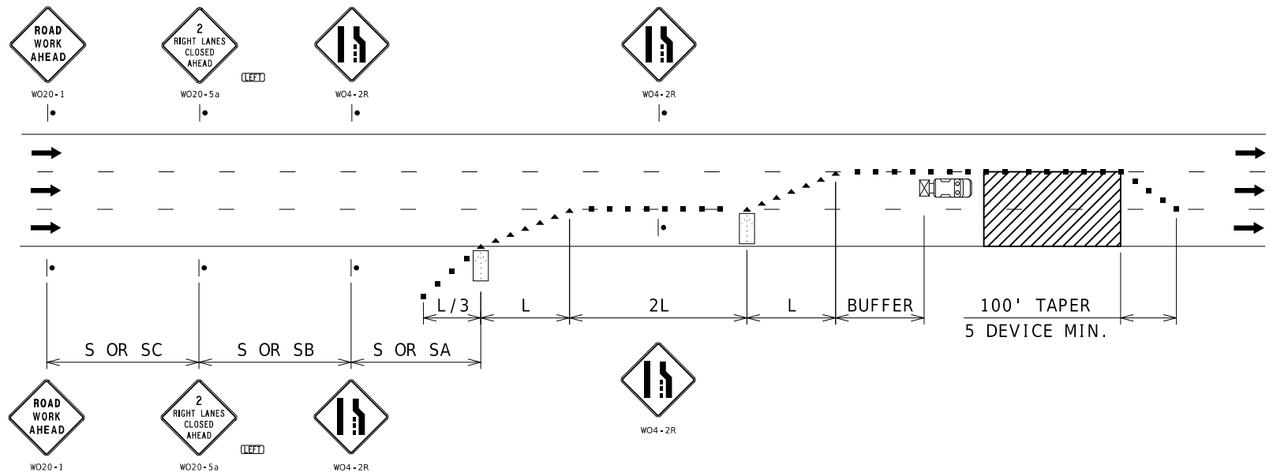
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL
SHEET 8 OF 9

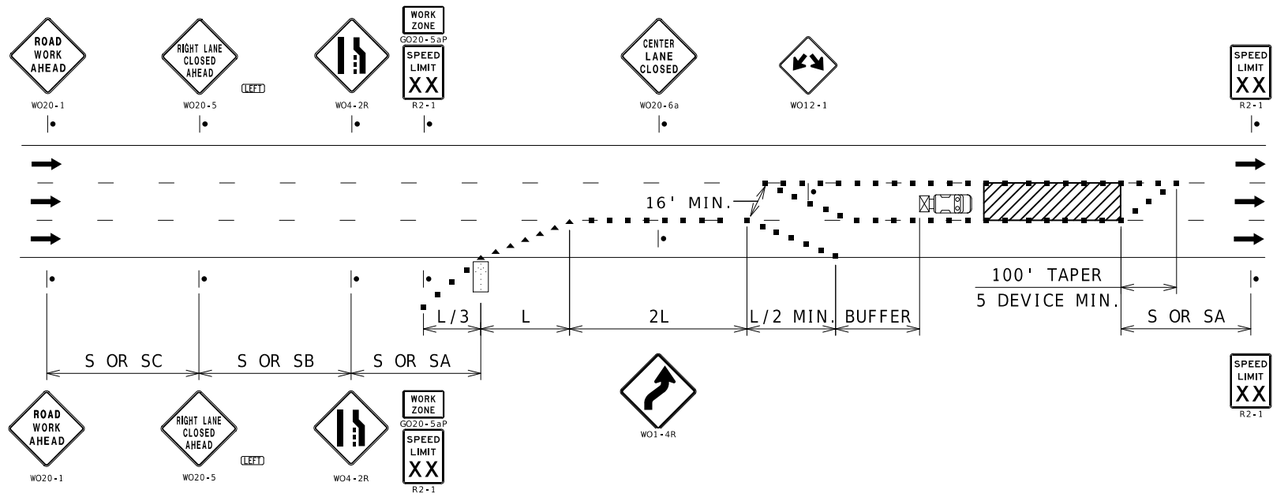


DOUBLE LANE CLOSURE

NOTES:

SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.

NOT TO SCALE



INTERIOR LANE CLOSURE

NOTES:

SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.

NOT TO SCALE

STATE OF MISSOURI
GIDGET J. KOESTNER
NUMBER PE-2006019694
PROFESSIONAL ENGINEER
07/31/2026 11:47:34 AM
GIDGET J. KOESTNER - CIVIL
MO-PE-2006019694

DATE PREPARED
6/29/2026

ROUTE	STATE
VAR	MO
DISTRICT	SHEET NO.
CD	11

COUNTY
VARIOUS

JOB NO.
JST0141

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TRAFFIC CONTROL
SHEET 9 OF 9