DESIGN DESIGNATION

A.A.D.T - 2025 = 3,341
V = 55 M.P.H
TRUCK PERCENTAGE = 10.1%
FUNCTIONAL CLASS = MAJOR COLLECTOR

NO NEW ACQUISITIONS 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		
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	

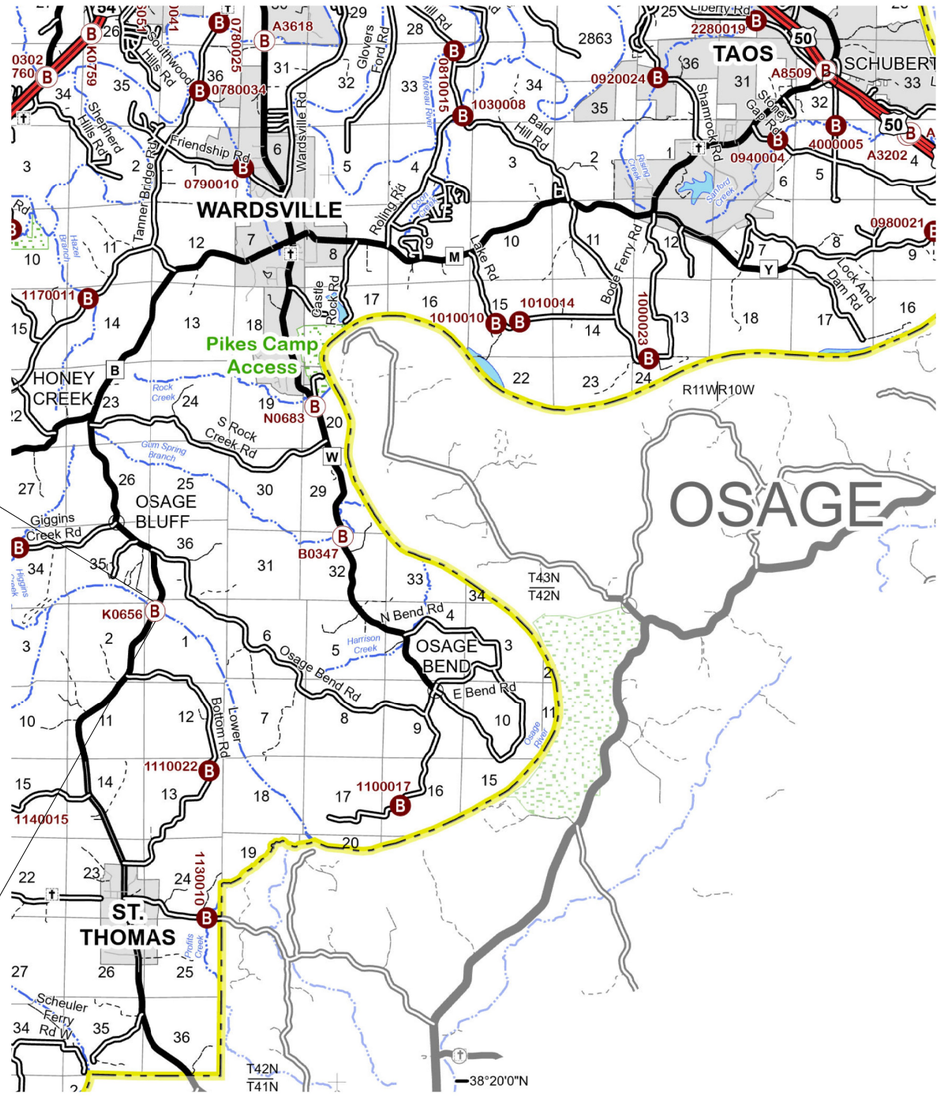
NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED STATE HIGHWAY
COLE COUNTY



KEY MAP

SHOWING LOCATION OF COLE 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
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QUANTITIES (QU) (2 SHEETS)	3
TRAFFIC CONTROL SHEETS (TC)	4-7
BRIDGE DRAWINGS (B)	
K0656	1-6

LENGTH OF PROJECT

BEGINNING OF PROJECT	LOG MILE 11.295
END OF PROJECT	LOG MILE 11.507
APPARENT LENGTH	0.212 MILES
EQUATIONS AND EXCEPTIONS:	0 MILES
TOTAL CORRECTIONS	0 MILES
NET LENGTH OF PROJECT	1120.0 FEET
STATE LENGTH	0.212 MILES
ESTIMATED DISTURBED ACRES (FOR INFORMATION ONLY)	0.0 ACRES

STATE OF MISSOURI
GREGORY G. LEARY
NUMBER PE-026654
PROFESSIONAL ENGINEER
09/23/2026 3:34:30 PM
GREGORY G. LEARY - CIVIL
MO-PE-026654

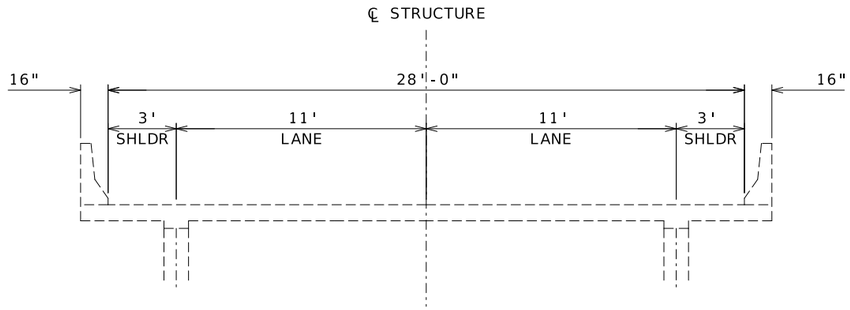
DATE PREPARED: 9/22/2026

ROUTE	STATE
B	MO
DISTRICT	SHEET NO.
CD	1

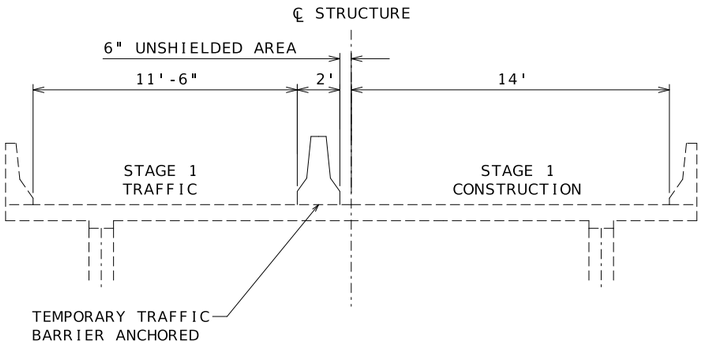
COUNTY: COLE
JOB NO.: JCD0258
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

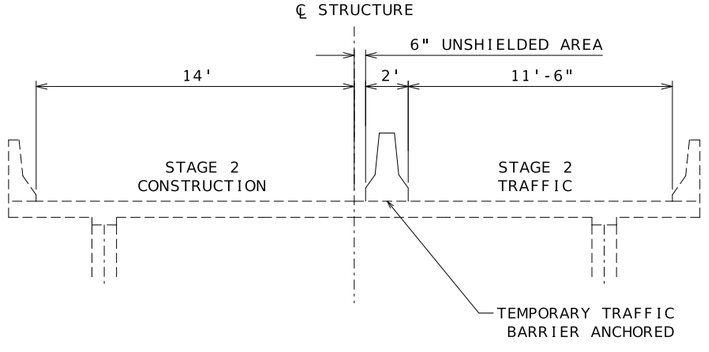
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



ROUTE B
TYPICAL SECTION
BRIDGE K0656
LOG MILE 11.295 TO LOG MILE 11.507



ROUTE B
STAGE 1 - TRAFFIC CONTROL
WORK ZONE TRAFFIC
SIGNAL SYSTEM



ROUTE B
STAGE 2 - TRAFFIC CONTROL
WORK ZONE TRAFFIC
SIGNAL SYSTEM

TYPICAL SECTION
SHEET 1 OF 1

STATE OF MISSOURI
GREGORY G. LEARY
NUMBER PE-026654
PROFESSIONAL ENGINEER
09/23/2026 3:34:01 PM
GREGORY G. LEARY - CIVIL
MO-PE-026654

DATE PREPARED
9/22/2026

ROUTE	STATE
B	MO
DISTRICT	SHEET NO.
CD	2

COUNTY
COLE

JOB NO.
JCD0258

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)

PAVEMENT MARKING REMOVAL

APPROX. LOG MILE	APPROX. LOG MILE	LENGTH FT	PAVEMENT MARKING REMOVAL LF	REMARKS
11.135	11.574	2318	2275	REMOVING EXISTING CENTERLINE - STOP BAR TO STOP BAR
11.574	11.669	500	625	REMOVE EXISTING CENTERLINE - FOR DOUBLE YELLOW CENTERLINE
11.299	11.511	1120	2240	REMOVING EXISTING LT & RT EDGE LINE - BRIDGE LIMITS
11.135			11	24" STOP BAR - STAGE 1 & 2 TRAFFIC CONTROL
11.574			11	24" STOP BAR - STAGE 1 & 2 TRAFFIC CONTROL
11.574	11.669	500	1000	DOUBLE YELLOW - STAGE 1 & 2 TRAFFIC CONTROL
11.299	11.511	1120	1120	STAGE 1 TRAFFIC CONTROL - LT EDGE LINE (BRIDGE)
11.171	11.538	1940	1940	STAGE 1 TRAFFIC CONTROL - RT EDGE LINE (TAPER TO TAPER)
11.171	11.538	1940	1940	STAGE 2 TRAFFIC CONTROL - LT EDGE LINE (TAPER TO TAPER)
11.299	11.511	1120	1120	STAGE 2 TRAFFIC CONTROL - RT EDGE LINE (BRIDGE)
		TOTAL	12282	
		USE	12282	

THERMOPLASTIC PAVEMENT MARKING

APPROX. LOG MILE	LENGTH FT	24" SOLID WHITE LF	REMARKS
11.135		11	STOP BAR - STAGE 1 & 2 TRAFFIC CONTROL
11.574		11	STOP BAR - STAGE 1 & 2 TRAFFIC CONTROL
	TOTAL	22	
	USE	22	

MOBILIZATION

1 LUMP SUM

4" TEMPORARY PAVEMENT MARKING PAINT

APPROX. LOG MILE	APPROX. LOG MILE	LENGTH FT	4" SOLID YELLOW LF	4" SOLID WHITE LF	REMARKS
11.574	11.669	500	1000		DOUBLE YELLOW - STAGE 1 & 2 TRAFFIC CONTROL
11.299	11.511	1120		1120	STAGE 1 TRAFFIC CONTROL - LT EDGE LINE (BRIDGE)
11.171	11.197	135		135	STAGE 1 TRAFFIC CONTROL - RT EDGE LINE (TAPER)
11.197	11.303	560		560	STAGE 1 TRAFFIC CONTROL - RT EDGE LINE (BUFFER)
11.303	11.458	820		820	STAGE 1 TRAFFIC CONTROL - RT EDGE LINE (WORK ZONES)
11.458	11.513	290		290	STAGE 1 TRAFFIC CONTROL - RT EDGE LINE (BUFFER)
11.513	11.538	135		135	STAGE 1 TRAFFIC CONTROL - RT EDGE LINE (TAPER)
11.171	11.197	135		135	STAGE 2 TRAFFIC CONTROL - LT EDGE LINE (TAPER)
11.197	11.303	560		560	STAGE 2 TRAFFIC CONTROL - LT EDGE LINE (BUFFER)
11.303	11.458	820		820	STAGE 2 TRAFFIC CONTROL - LT EDGE LINE (WORK ZONES)
11.458	11.513	290		290	STAGE 2 TRAFFIC CONTROL - LT EDGE LINE (BUFFER)
11.513	11.538	135		135	STAGE 2 TRAFFIC CONTROL - LT EDGE LINE (TAPER)
11.299	11.511	1120		1120	STAGE 2 TRAFFIC CONTROL - RT EDGE LINE (BRIDGE)
		TOTAL	1000	6120	
		USE	7120		

CLASS 1 PAVEMENT MARKING PAINT (18-MIL TYPE P BEADS)

APPROX. LOG MILE	APPROX. LOG MILE	LENGTH FT	4" INT YELLOW LF	4" SOLID YELLOW LF	4" SOLID WHITE LF	REMARKS
11.135	11.230	500		1000		REPLACE EXISTING DOUBLE YELLOW
11.230	11.385	820	205	820		REPLACE EXISTING SB PASSING YELLOW
11.385	11.574	1000	250			REPLACE EXISTING INT YELLOW
11.574	11.669	500	125	500		REPLACE EXISTING NB PASSING YELLOW
11.299	11.511	1120			2240	REPLACE EXISTING WHITE EDGE LINES
		TOTAL	580	2320	2240	
		USE	2900		2240	

SUMMARY OF QUANTITIES
SHEET 1 OF 2

STATE OF MISSOURI
GREGORY G. LEARY
NUMBER PE-026654
PROFESSIONAL ENGINEER
09/23/2026 3:34:43 PM
GREGORY G. LEARY - CIVIL
MO-PE-026654

DATE PREPARED: 9/22/2026
ROUTE: B | STATE: MO
DISTRICT: CD | SHEET NO.: 3
COUNTY: COLE
JOB NO.: JCD0258
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)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00	2	32.00			15	REVERSE CURVE (SYMBOL RIGHT)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00	2	32.00			12	SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00	2	32.00			11	BE PREPARED TO STOP
WO3-5	48X48	16.00						SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00						MERGE (LEFT)
WO4-1aR	48X48	16.00						MERGE (RIGHT)
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00						NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00						UNEVEN LANES
WO8-12	48X48	16.00						NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	2	32.00			2	ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00						DETOUR AHEAD
WO20-3	48X48	16.00						ROAD CLOSED AHEAD
WO20-4	48X48	16.00	4	64.00			7	ONE LANE ROAD AHEAD
WO20-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00	2	32.00			8	FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00						SHOULDER WORK / SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19	4	8.76				WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00						ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00						END ROAD WORK
GO20-4	36X18	4.50	1	4.50			53	PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00	2	12.00			54	WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00						END DETOUR
MO4-9L	48X36	12.00						DETOUR (LEFT)
MO4-9R	48X36	12.00						DETOUR (RIGHT)
MO4-9P	48X12	4.00						STREET NAME (PLAQUE)
MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)
MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00	2	24.00			25	SPEED LIMIT 45
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00						SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00	2	12.00			47	STOP HERE ON RED (45^ ARROW)
R11-2	48X30	10.00	4	40.00			29	ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00	2	24.00			58	POINT OF PRESENCE
CONST-5	96X48	32.00						POINT OF PRESENCE
CONST-8	48X36	12.00	2	24.00			59	WORK ZONE NO PHONE ZONE
SPECIAL	48x48	16.00	2	32.00			30	RUMBLE STRIPS AHEAD

616-10.05 CONSTRUCTION SIGNS	TOTAL 406
616-10.10 RELOCATED SIGNS	TOTAL

EFFECTIVE: 07-01-2025

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6122040	4	WORK ZONE CRASH CUSHION (NARROW)
6122041	4	WORK ZONE CRASH CUSHION (RELOCATION)
6123001		TRUCK MOUNTED ATTENUATOR (TMA)
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161020		CHANNELIZER (DRUM-LIKE)
6161022		CHANNELIZER (CONE)
6161025	30	CHANNELIZER (TRIM-LINE)
6161026		CHANNELIZER (VERTICAL PANEL)
6161030	8	TYPE 3 MOVEABLE BARRICADE
6161033		DIRECTION INDICATOR BARRICADE
6161040		FLASHING ARROW PANEL
6161047		TYPE 3 OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A		CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099	2	CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6162000A	1	WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002	2	TEMPORARY LONG-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER, CONTRACTOR FURNISHED/RETAINED
6173700B	200	TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED
6173706		TEMP. TRAFFIC BARRIER STIFFNESS TRANSITION CONTRACTOR FURNISHED/RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION, CONTRACTOR FURNISHED/RETAINED
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6175011B	200	RELOCATING TEMP. TRAFFIC BARRIER ANCHORED
6175013		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS
6175020A		RELOCATING TEMP. TRAFFIC BARRIER HEIGHT
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

STATE OF MISSOURI
GREGORY G. LEARY
NUMBER PE-026654
PROFESSIONAL ENGINEER
09/23/2026 3:34:56 PM
GREGORY G. LEARY - CIVIL
MO-PE-026654

DATE PREPARED
9/22/2026

ROUTE	STATE
B	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
COLE

JOB NO.
JCD0258

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

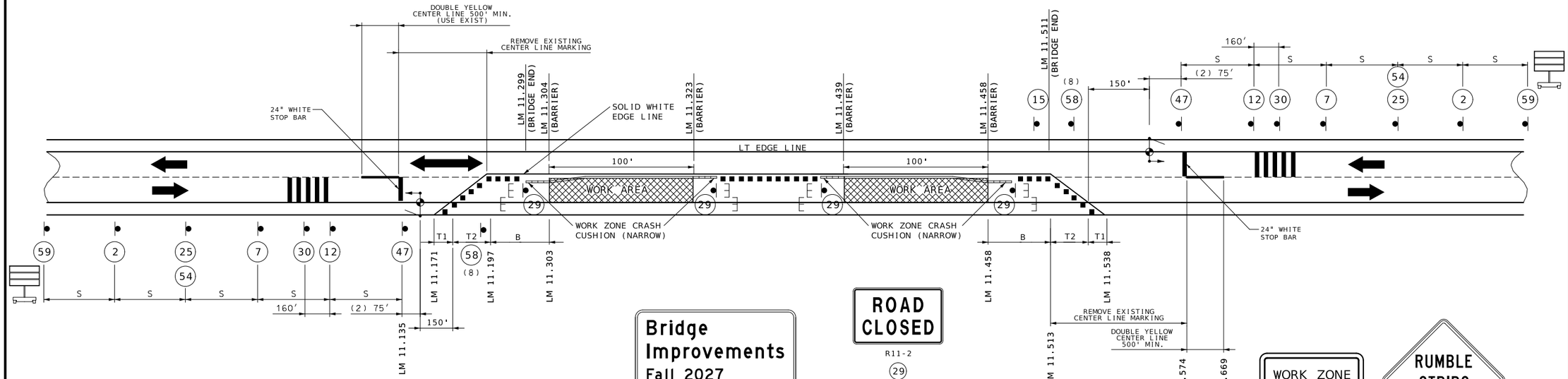
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SUMMARY OF QUANTITIES

SHEET 2 OF 2

LANE CLOSURE DETAILS USING TRAFFIC CONTROL SIGNALS



TRAFFIC CONTROL NOTES:

1. FOR PORTABLE TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNAL, AND TYPICAL ACTUATED PHASING, SEE EPG 616.8.12A PORTABLE TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNAL AND CONCRETE BARRIER DETAILS AND SEE 616.8.12B ESTIMATED AVERAGE PEAK HOUR SIGNAL DELAY FOR SIGNAL CONTROL ONE-LANE TWO-WAY OPERATION.
2. 75' RECOMMENDED SPACING. SPACING MAY BE BETWEEN 40' AND 150'
3. TEMPORARY TRAFFIC CONTROL SIGNALS SHALL BE INSTALLED AND OPERATED IN ACCORDANCE WITH THE PROVISIONS OF THE STANDARD 902 SIGNALS. TEMPORARY TRAFFIC CONTROL SIGNALS SHALL MEET THE PHYSICAL DISPLAY AND OPERATIONAL REQUIREMENTS OF CONVENTIONAL TRAFFIC CONTROL SHEETS.
4. TEMPORARY TRAFFIC CONTROL SIGNAL TIMING SHALL BE ESTABLISHED BY AUTHORIZED OFFICIALS. DURATION OF RED CLEARANCE INTERVALS SHALL BE ADEQUATE TO CLEAR THE ONE-LANE SECTION OF CONFLICTING VEHICLES.
5. STOP LINES SHALL BE INSTALLED WITH TEMPORARY TRAFFIC CONTROL SIGNALS FOR INTERMEDIATE AND LONG-TERM CLOSURES. EXISTING CONFLICTING PAVEMENT MARKINGS AND RAISED PAVEMENT MARKER REFLECTORS BETWEEN THE ACTIVITY AREA AND THE STOP LINE SHALL BE REMOVED. AFTER THE TEMPORARY TRAFFIC CONTROL SIGNAL IS REMOVED, THE STOP LANES AND OTHER TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED AND THE PERMANENT PAVEMENT MARKINGS RESTORED.
6. SAFEGUARDS SHALL BE INCORPORATED TO AVOID THE POSSIBILITY OF CONFLICTING SIGNAL INDICATIONS AT EACH END OF THE TTC ZONE.
7. DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.
8. SIGN CONST-7-72 OR CONST-7-48 IS PLACED 500 FT 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.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- PORTABLE TRAFFIC SIGNAL WITH LUMINARE
- WORK AREA
- CHANNELIZER (TRIM LINE)
- TEMPORARY LONG-TERM RUMBLE STRIPS
- TEMPORARY TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED
- TYPE III MOVEABLE BARRICADE

CONST-7-48
58

R11-2
29



GO20-5aP
54



CONST-8
59



SPECIAL
30



WO20-1
2

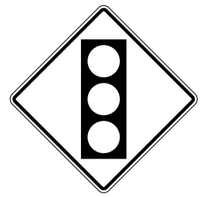
BRIDGE OR RAMP



R2-1
25



WO20-4
7



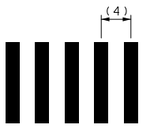
WO3-2
12



R10-6L
47



WO1-4R
15



SPACING EXAMPLE

LONG-TERM RUMBLE STRIPS	
PERMANENT POSTED (MPH)	SPACING (4)
0-45 (OPTIONAL)	10-12 FT
50-55	10-12 FT
60-70	10-12 FT

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

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES				
PERMANENT POSTED SPEED LIMIT (MPH)	TAPER LENGTHS (L) FOR LATERAL SHIFTS (W) FT		CHANNELIZER SPACING, FT	
	SHOULDER (T1)	LANE (T2)	TAPERS	BUFFER/ WORK AREA
0-35	35	100	25	40
40-45	35	100	25	80
50-55	35	100	25	80
60-70	35	100	25	120

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

NOT TO SCALE

TRAFFIC CONTROL
SHEET 1 OF 4

STATE OF MISSOURI
GREGORY G. LEARY
NUMBER PE-026654
PROFESSIONAL ENGINEER
09/23/2026 3:33:35 PM
GREGORY G. LEARY - CIVIL
MO-PE-026654

DATE PREPARED 9/22/2026

ROUTE	STATE
B	MO
DISTRICT	SHEET NO.
CD	4

COUNTY: COLE
JOB NO.: JCD0258
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)



W020-1

(2)



W020-4

(7)



W020-7a

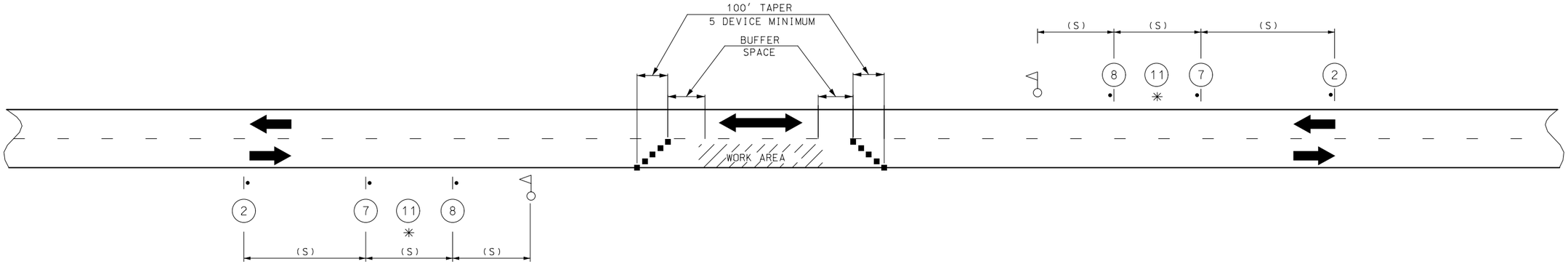
(8)



G020-4

(53)

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





W03-4

(11)

* THIS SIGN IS INSERTED BETWEEN SIGNS 7 & 8 WITH THE SPACING OF 1/2 THE STANDARD SPACING WHEN NO WORK ZONE SPEED LIMIT IS ESTABLISHED.

NOTES:

THIS PLAN IS FOR DAYLIGHT FLAGGING OPERATIONS ONLY. WHEN NIGHT WORK IS REQUIRED, OR OTHERWISE ALLOWED BY THE ENGINEER, WORK ZONE LIGHTING SHALL BE PROVIDED IN ACCORDANCE WITH SEC 616.5.2.

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)	BUFFER SPACE
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	LENGTH (FT)
0-35	200	250
40-45	350	360
50-55	500	495
60-70	1000	730

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

SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

■ - CHANNELIZERS

- FLAGGER

TRAFFIC CONTROL
SHEET 2 OF 4

STATE OF MISSOURI
GREGORY G. LEARY
NUMBER PE-026654
PROFESSIONAL ENGINEER

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MO-PE-026654

DATE PREPARED
9/22/2026

ROUTE	STATE
B	MO
DISTRICT	SHEET NO.
CD	5

COUNTY
COLE

JOB NO.
JCD0258

CONTRACT ID.

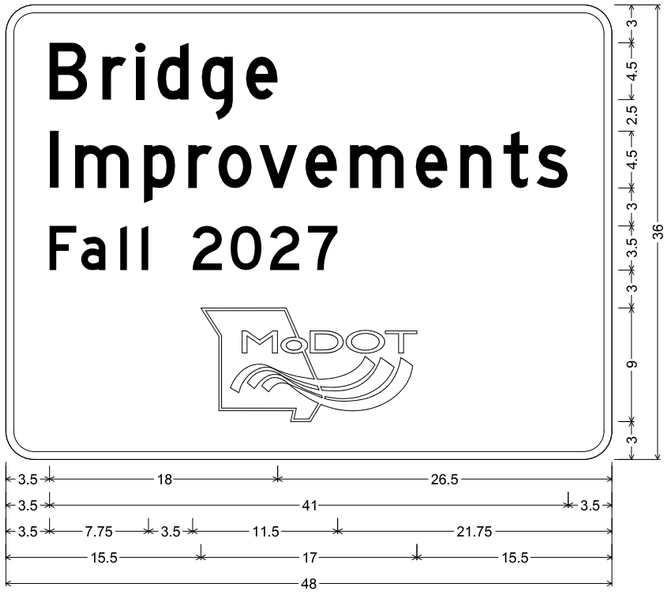
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

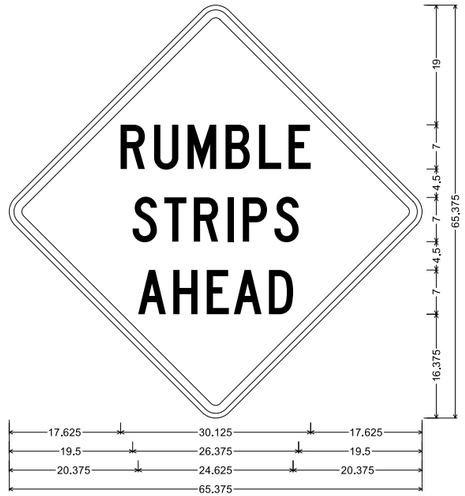
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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CONST-5 SH-FLAT SHEET;
2.250" Radius, 0.625" Border, White on, Green;
"Bridge", D 85% spacing; "Improvements", D 85% spacing; "Fall 2027", D;
Table of letter and object lefts

B 3.500	r 7.625	i 10.250	d 12.000	g 15.500	e 19.000
l 3.500	m 5.500	p 11.000	r 14.500	o 16.875	v 20.125	e 23.750	m 27.250	e 32.500	n 36.000	t 39.375	s 42.000
F 3.500	a 6.000	l 9.000	l 10.750	2 14.750	0 17.750	2 20.875	7 23.875
15.500											



SPECIAL SHF-FLAT SHEET FLUORESCENT;
48.000" across sides 3.000" Radius, 1.250" Border, 0.750" Indent, Black on Orange;
"RUMBLE", C; "STRIPS", C; "AHEAD", C;
Table of letter and object lefts

R 17.625	U 23.000	M 28.250	B 34.250	L 39.625	E 44.250
S 19.500	T 24.625	R 29.250	I 34.500	P 37.000	S 42.000
A 20.375	H 26.000	E 31.250	A 35.625	D 41.125	

TRAFFIC CONTROL
SHEET 3 OF 4

STATE OF MISSOURI
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ROUTE	STATE
B	MO
DISTRICT	SHEET NO.
CD	6

COUNTY
COLE

JOB NO.
JCD0258

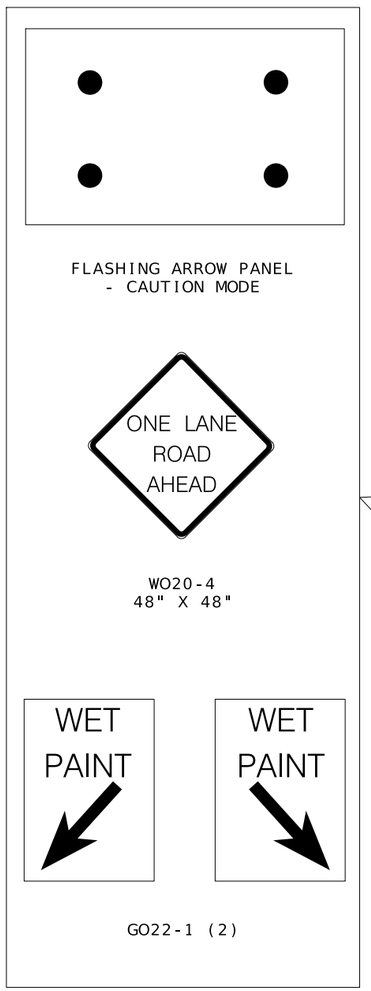
CONTRACT ID.
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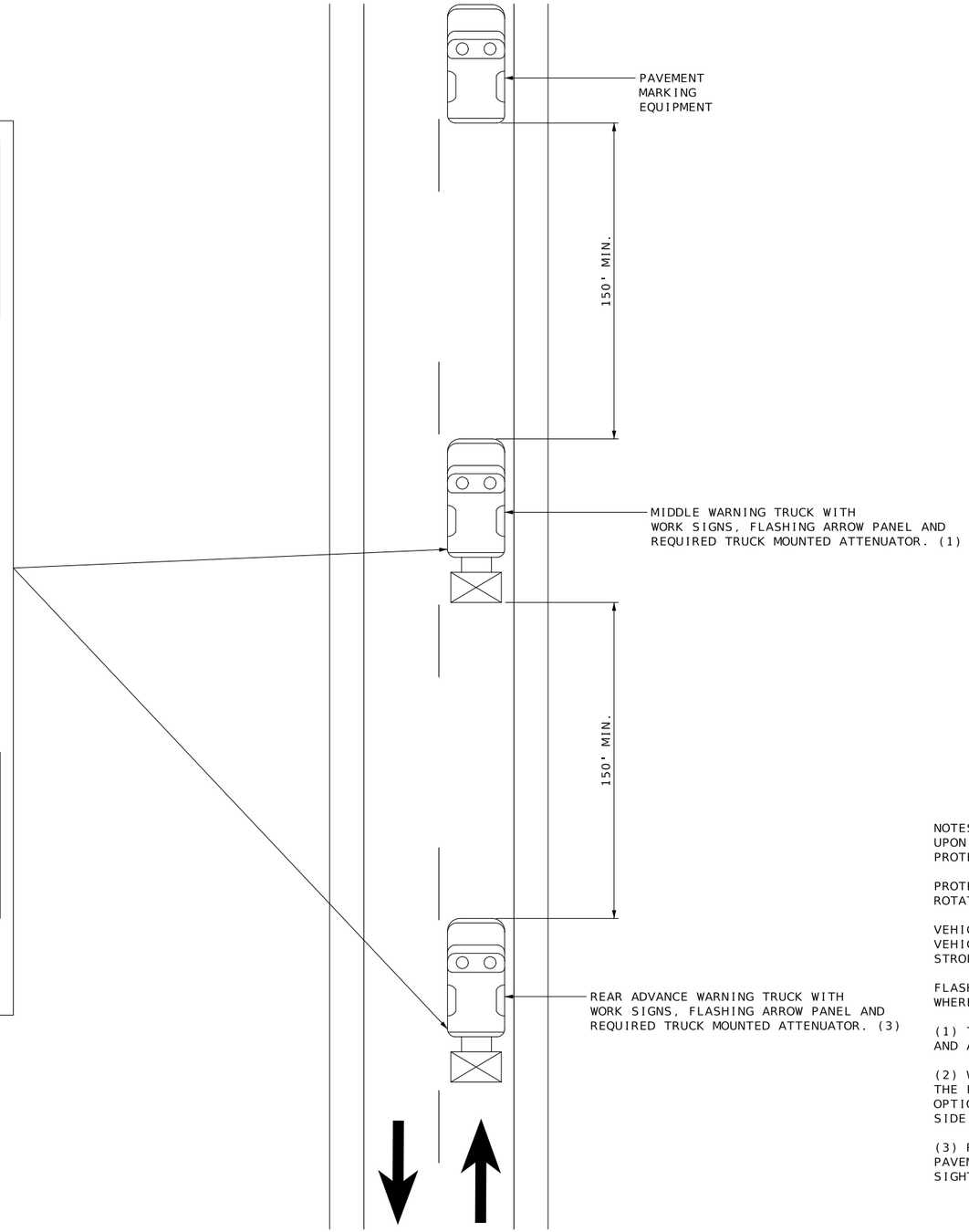
PROJECT NO.
####

BRIDGE NO.
####

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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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 STROPE LIGHTS.

FLASHING ARROW PANELS SHALL BE INCIDENTAL TO TRUCK MOUNTED ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT WILL 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.

CENTERLINE/EDGELINE STRIPING ON TWO-LANE HIGHWAYS

TRAFFIC CONTROL
SHEET 4 OF 4

STATE OF MISSOURI
GREGORY G. LEARY
NUMBER PE-026654
PROFESSIONAL ENGINEER
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MO-PE-026654

DATE PREPARED
9/22/2026

ROUTE	STATE
B	MO
DISTRICT	SHEET NO.
CD	7

COUNTY
COLE

JOB NO.
JCD0258

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

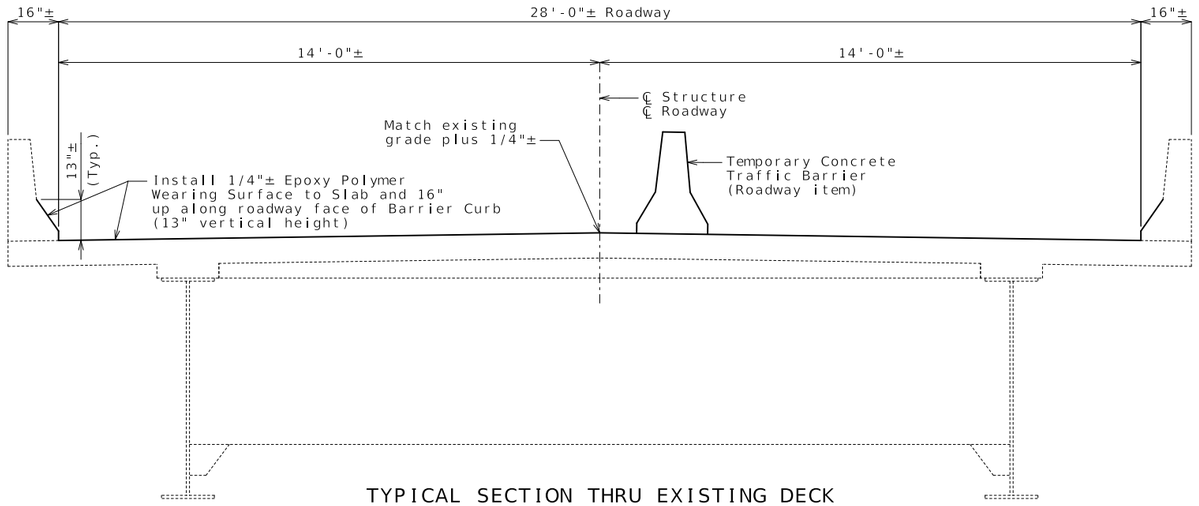
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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SEC/SUR 1 TWP 42N RGE 12W

U.I.P. AND REHABILITATE EXISTING (71') (4'-155'-200'-200'-155'-4') (99'-130'-99') CONTINUOUS COMPOSITE WELDED PLATE GIRDER SPANS



TYPICAL SECTION THRU EXISTING DECK

General Notes:

2002 AASHTO LFD (17th Ed.) Standard Specifications
Bridge Deck Rating = 5

Design Loading:

H20-44 (1961), HS20-44 (2012 & New Construction)

Design Unit Stresses:

Structural Carbon Steel (ASTM A709 Grade 36) fy = 36,000 psi

Structural Low Alloy Steel (ASTM A709 Grade 50) fy = 50,000 psi

Fabricated Steel Connections:

Field connections shall be made with 7/8-inch diameter ASTM F3125 Grade A325 Type 1 bolts and 15/16-inch diameter holes, except as noted.

Structural Steel Protective Coatings:

System L in accordance with Sec 1081.

Surface Preparation: Surface preparation of the existing steel shall be in accordance with Sec 1081 for Recoating of Structural Steel (System L) with inorganic zinc primer. The cost of surface preparation will be considered completely covered by the contract unit price per sq. foot for Surface Preparation for Recoating Structural Steel.

Prime Coat: The cost of the prime coat will be considered completely covered by the contract unit price per sq. foot for Field Application of Inorganic Zinc Primer.

Field Coat(s): The color of the field coat(s) shall be Gray (Federal Standard #26373). The cost of the finish field coat will be considered completely covered by the contract unit price per sq. foot for Finish Field Coat (System L).

Concrete Protective Coatings:

Protective coating for concrete bents and piers (Epoxy) shall be applied as shown on the bridge plans and in accordance with Sec 711.

Miscellaneous:

Roadway surfacing adjacent to bridge ends shall match new bridge wearing surface (roadway item).

Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

The contractor shall exercise care to ensure spillage over joint edges is prevented and that a neat line is obtained along any terminating edge of the wearing surface.

Contractor shall verify all dimensions in field before finalizing the shop drawings.

Traffic Handling:

Traffic to be maintained on structure during construction. See roadway plans for traffic control.

Estimated Quantities

Item		Total
Removal of Existing Expansion Joint Seal or Sealant	linear foot	28
Removal of Existing Bearings	each	2
Epoxy Polymer Wearing Surface	sq. yard	3797
Substructure Repair (Unformed)	sq. foot	100
Protective Coating - Concrete Bents and Piers (Epoxy)	lump sum	1
Fabricated Structural Carbon Steel (Misc.)	pound	800
Cleaning and Coating Existing Bearings	each	2
Surface Preparation for Recoating Structural Steel	sq. foot	2300
Field Application of Inorganic Zinc Primer	sq. foot	2300
Finish Field Coating (System L)	sq. foot	2300
Strengthening Existing Girders	lump sum	1
Expansion Device Drainage Trough System	each	2
Type N PTFE Bearing	each	2
Strip Seal	linear foot	28

REPAIRS TO BRIDGE: ROUTE B OVER OSAGE RIVER

ROUTE B FROM ROUTE E TO ROUTE 133
ABOUT 2.8 MILES SOUTH OF ROUTE E
BEGINNING STATION 600+00.00± (Match Existing)

Detailed Aug. 2026
Checked Aug. 2026

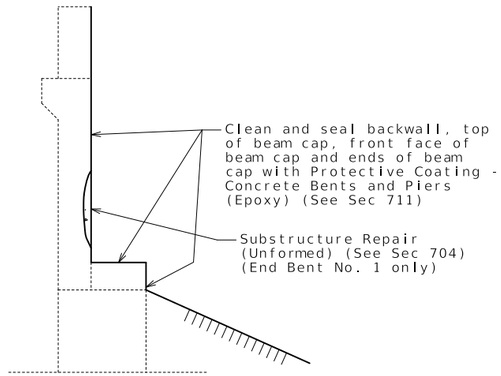
Note: This drawing is not to scale. Follow dimensions.

STATE OF MISSOURI
TED S. KOESTER
NUMBER PE-2013000591
PROFESSIONAL ENGINEER
Ted Koester
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TED S. KOESTER - CIVIL
MO-PE-2013000591

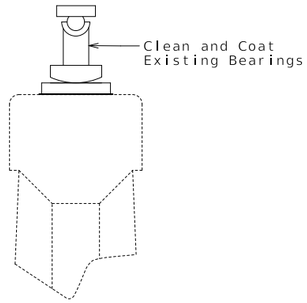
DATE PREPARED 10/26/2026
ROUTE B | STATE MO
DISTRICT BR | SHEET NO. 1
COUNTY COLE
JOB NO. JCD0258
CONTRACT ID.
PROJECT NO.
BRIDGE NO. K06564

DESCRIPTION | DATE

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

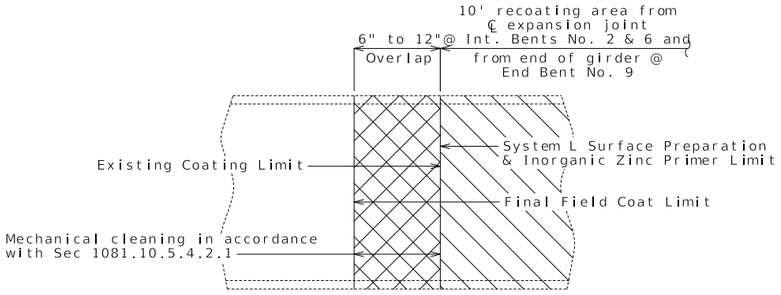


TYPICAL SECTION THRU
END BENTS NO. 1 & 9
SHOWING PROTECTIVE COATING



SECTION THRU INT. BENT NO. 5
SHOWING COATING OF BEARINGS

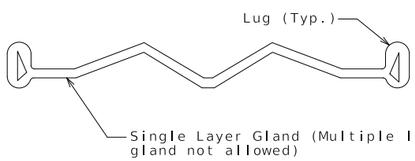
TYPICAL ELEVATION AT
INTERMEDIATE BENTS NO. 2 & 6
SHOWING PROTECTIVE COATING



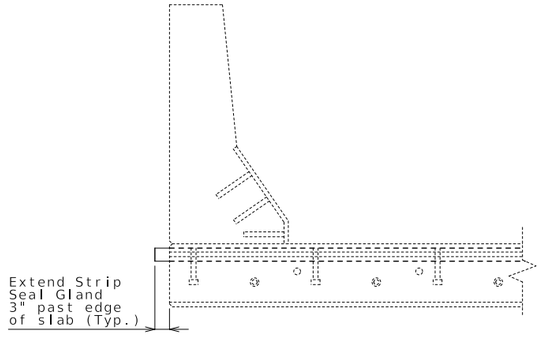
PART ELEVATION SHOWING LIMITS OF PAINT OVERLAP

(Vertical or horizontal paint limit. Horizontal limit shown)

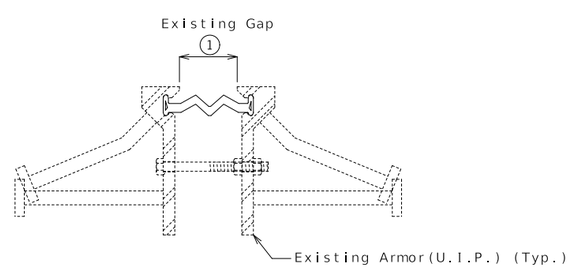
Limits of Paint Overlap: System L shall overlap the existing coating between 6 inches and 12 inches in order to achieve maximum coverage at the paint limit of each complete system near the expansion and contraction areas. The final field coating shall be masked to provide crisp, straight lines and to prevent overspray beyond the overlap required.



DETAIL OF GLAND



PART SECTION SHOWING GLAND INSTALLATION



PART CROSS SECTION THRU EXPANSION JOINT

Table of Allowed Transverse Strip Seal Expansion Joint System

Manufacturer	Strip Seal System (Designated Name)	Movement Parallel to RDWY	① Allowed Installation Gap Normal to Joint at RDWY Surface @ Air/Surface Temperature ②						③
			@ 40°F	@ 50°F	@ 60°F	@ 70°F	@ 80°F	@ 90°F	
D S Brown	Strip seal L2-400	$2\frac{11}{16}$"	$2\frac{3}{4}$"	$2\frac{9}{16}$"	$2\frac{3}{8}$"	$2\frac{3}{16}$"	2"	$1\frac{13}{16}$"	☐
D S Brown	Strip seal L2-500	$2\frac{11}{16}$"	$2\frac{3}{4}$"	$2\frac{9}{16}$"	$2\frac{3}{8}$"	$2\frac{3}{16}$"	2"	$1\frac{13}{16}$"	☐
Watson Bowman Acme(Wabo)	Strip seal SE-400	$2\frac{11}{16}$"	$2\frac{3}{4}$"	$2\frac{9}{16}$"	$2\frac{3}{8}$"	$2\frac{3}{16}$"	2"	$1\frac{13}{16}$"	☐
Watson Bowman Acme(Wabo)	Strip seal SE-500	$2\frac{11}{16}$"	$2\frac{3}{4}$"	$2\frac{9}{16}$"	$2\frac{3}{8}$"	$2\frac{3}{16}$"	2"	$1\frac{13}{16}$"	☐

② The installation temperature shall be taken as the actual air temperature averaged over the 24-hour period immediately preceding installation.

③ MoDOT Construction personnel will indicate the strip seal expansion joint system installed.

Detailed Aug. 2026
Checked Aug. 2026

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

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TED S. KOESTER
NUMBER PE-2013000591
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DATE PREPARED
10/26/2026

ROUTE	STATE
B	MO
DISTRICT	SHEET NO.
BR	2

COUNTY
COLE

JOB NO.
JCD0258

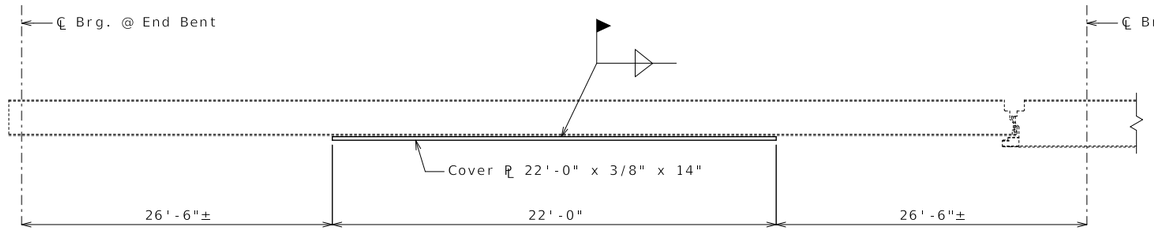
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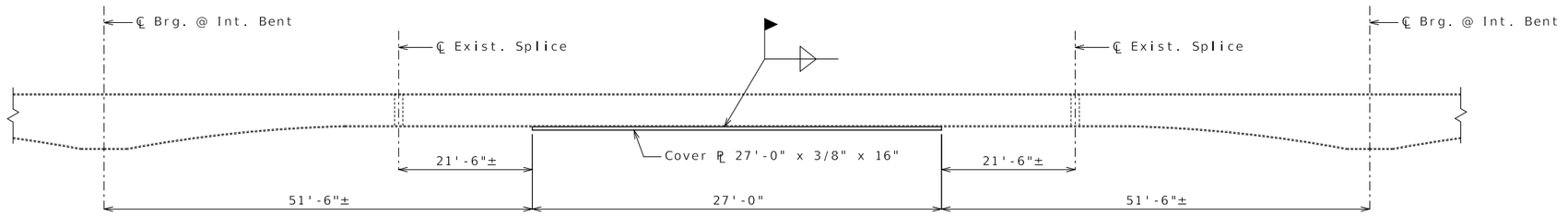
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K06564

DESCRIPTION	DATE

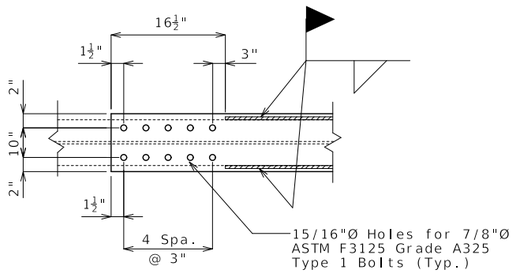
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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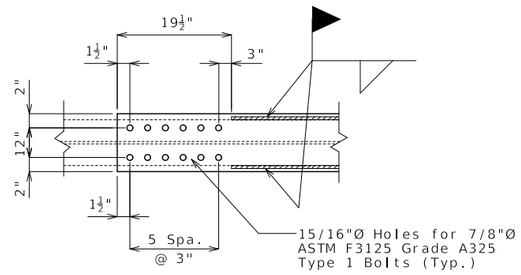
PART ELEVATION OF EXTERIOR GIRDER SHOWING COVER PLATE INSTALLATION
SPAN (1-2)



PART ELEVATION OF EXTERIOR GIRDER SHOWING COVER PLATE INSTALLATION
SPAN (7-8)



TYPICAL DETAIL OF THE
ENDS OF COVER PLATES SPAN 1
(BOTTOM VIEW)



TYPICAL DETAIL OF THE
ENDS OF COVER PLATES SPAN 7
(BOTTOM VIEW)

Notes:

Girder with end-bolted cover plates shall be installed in the following sequence after existing bridge deck is removed:

1. Drill holes in cover plate and flange.
2. Clean faying surfaces. (See Special Provisions)
3. Install and tighten bolts.
4. Weld cover plate to flange.

Fabricated Structural Steel shall be ASTM A709 Grade 36, except as noted.

Payment for 1,972 pounds of new cover plates, complete in place, will be considered completely covered by the contract lump sum price for Strengthening Existing Girders.

Notch toughness is required for all cover plates.

Contractor shall verify all dimensions in field before finalizing the shop drawings.

STRENGTHENING EXISTING GIRDERS

Detailed Aug. 2026
Checked Aug. 2026

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

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NUMBER PE-2013000591
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Ted Koester
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DATE PREPARED
10/26/2026

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DISTRICT	SHEET NO.
BR	3

COUNTY
COLE

JOB NO.
JCD0258

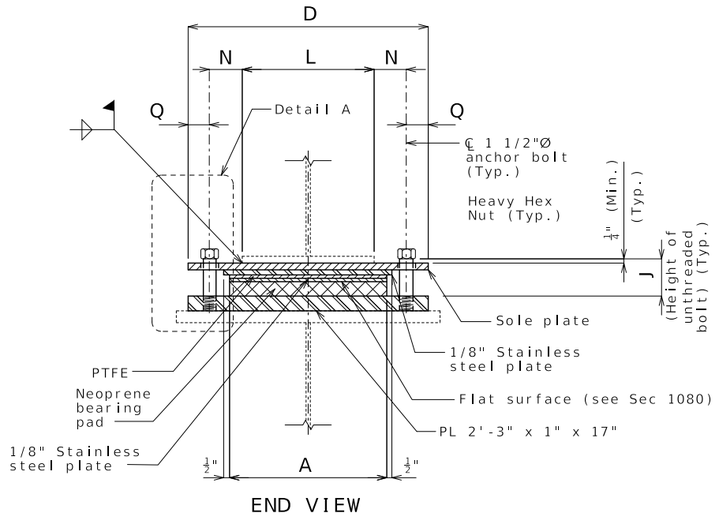
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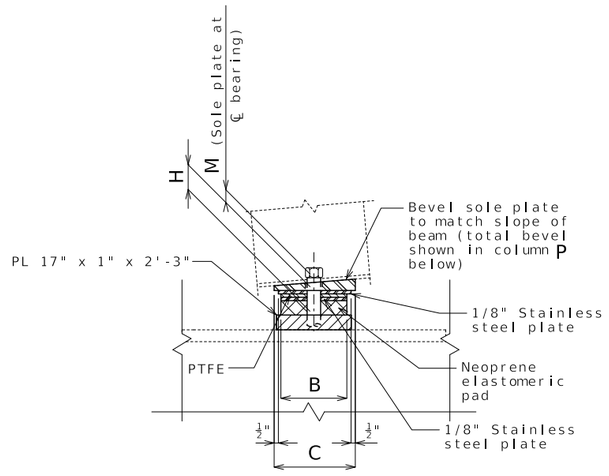
BRIDGE NO.
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DESCRIPTION	DATE

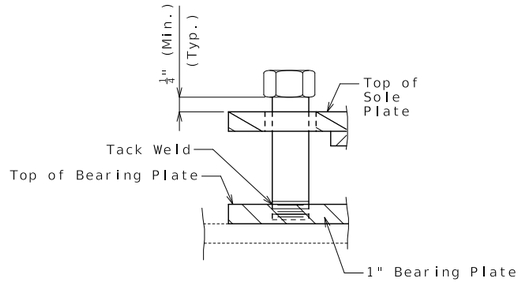
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



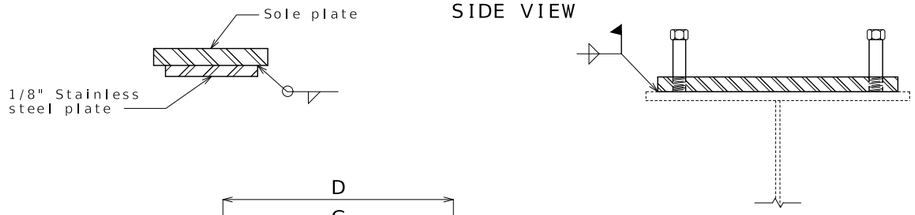
END VIEW



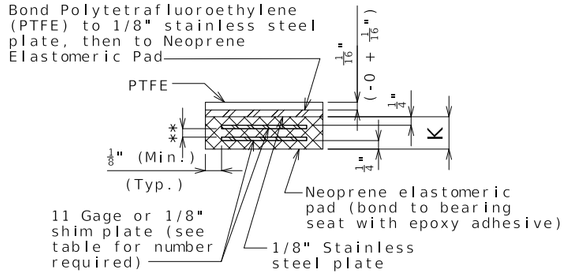
SIDE VIEW



DETAIL A

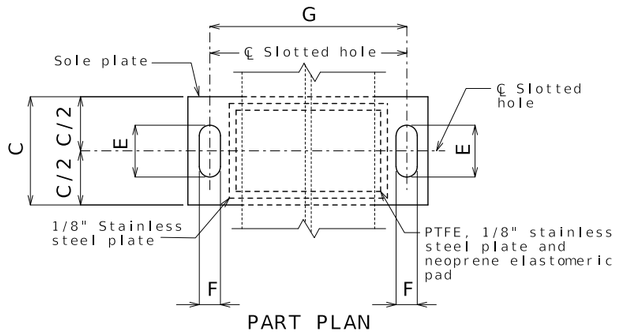


SECTION THRU BEARING PLATE

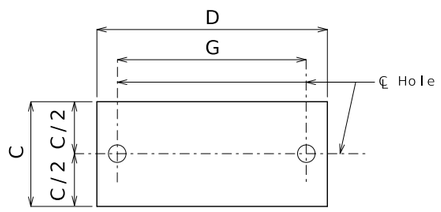


NEOPRENE ELASTOMERIC PAD

** Layers of 1/2" elastomeric pad alternating with 11 gage or 1/8" shim plate



PART PLAN



DETAIL OF BEARING PLATE (1" THICK)

PTFE SLIDING BEARINGS																		
BENT NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	NUMBER OF SHIM PLATES *	NUMBER REQUIRED
2 Shelf	18"	12"	19½"	2'-3"	6½"	1⅝"	22"	1⅜"	2⅞"	1⅛"	12"	1½"	5"	0"	2½"	0"	1	2

* The required shim plate shall be placed between layers of elastomer and molded together to form an integral unit.

GENERAL NOTES:

Design coefficient of friction equals 4%.

Anchor bolts shall be 1 1/2"Ø ASTM F1554 Grade 325 Type 1. Actual manufacturer's certified mill test reports (chemical and mechanical) shall be provided. Heavy hex jam nut shall conform to A563DH or A194 Grade 2H and shall be galvanized.

Anchor bolts shall be at the centerline of slotted hole at 60°F. Bearing position shall be adjusted R for each 10° fall or rise in temperature at installation.

Anchor bolts and heavy hex nuts shall be coated with a minimum of two coats of inorganic zinc primer to provide a total dry film thickness of 4 mils minimum, 6 mils maximum, or galvanized in accordance with ASTM F2329.

Neoprene Elastomeric Pads shall be 70 Durometer.

Structural steel for sole plate and bearing plate shall be ASTM A709 Grade 50 and shall be coated with a minimum of two coats of inorganic zinc primer to provide a total dry film thickness of 4 mils minimum, 6 mils maximum. The stainless steel plate shall be protected from any coating.

Type N PTFE Bearings shall be in accordance with Sec 716.

The bottom face of the 1/8" stainless steel plate that is welded to the sole plate shall be lubricated with a lubricant that is approved by the bearing manufacturer.

PTFE surface shall be fabricated as a single piece. Splicing will not be permitted.

The PTFE surface shall be flat.

Cost of removing existing bearings and anchor bolts will be considered completely covered by the contract unit price for Removal of Existing Bearings. See special provisions for other requirements.

The required temporary support shall be capable of safely supporting a service load of 160 kips/girder (factor safety not included). This load includes the dead load and a construction load of 50 psf. Live load with impact is 158 kips.

TYPE N PTFE BEARINGS

Detailed Aug. 2026
Checked Sep. 2026

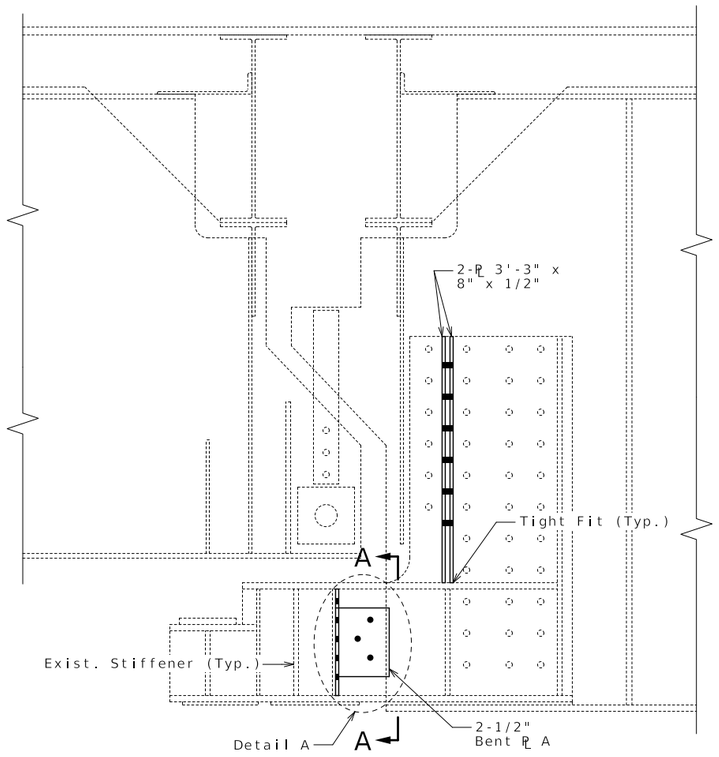
Note: This drawing is not to scale. Follow dimensions.

STATE OF MISSOURI
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NUMBER PE-2013000591
PROFESSIONAL ENGINEER
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TED S. KOESTER - CIVIL
MO-PE-2013000591

DATE PREPARED: 10/26/2026
ROUTE: B | STATE: MO
DISTRICT: BR | SHEET NO.: 4
COUNTY: COLE
JOB NO.: JCD0258
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: K06564

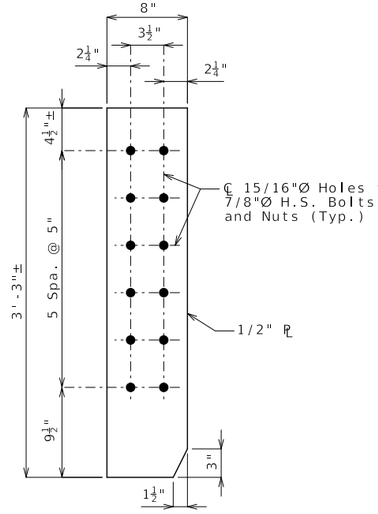
DESCRIPTION | DATE

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

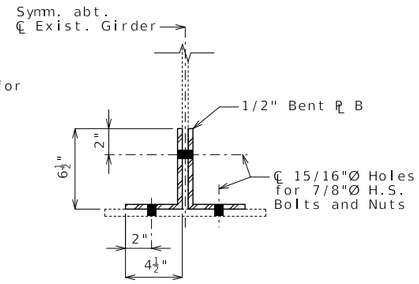


PART ELEVATION AT EXPANSION JOINT NEAR INT. BENT NO. 6 SHOWING STEEL REPAIR

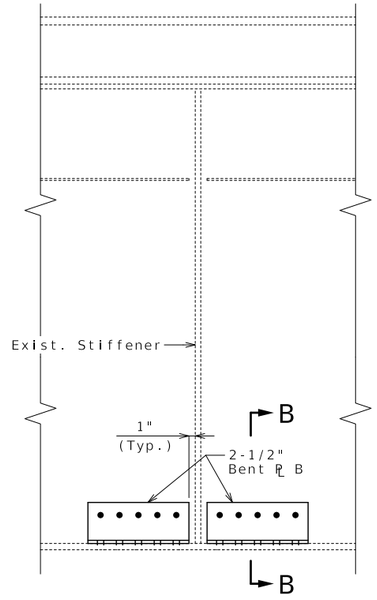
(Girder No. 1 shown, Girder No. 2 similar)



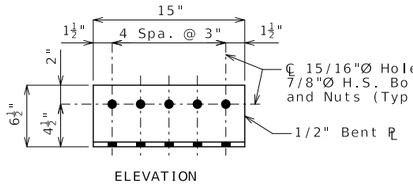
DETAILS OF ℄ 3'-3" x 8" x 1/2"



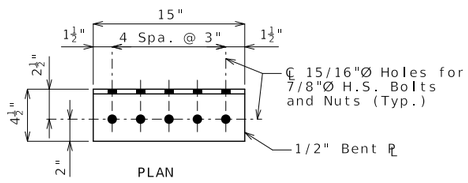
SECTION B-B



PART ELEVATION IN SPAN (4-5) GIRDER NO. 2 & SPAN (6-7) GIRDER NO. 2 SHOWING WEB REPAIR

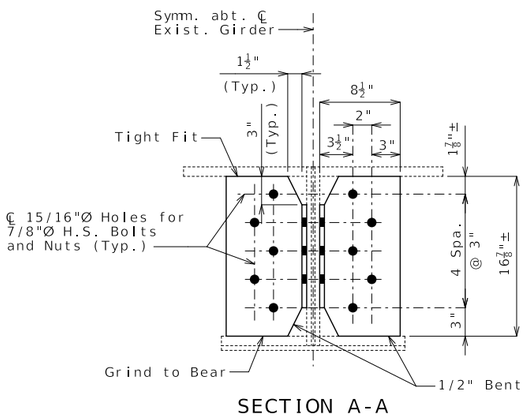


ELEVATION

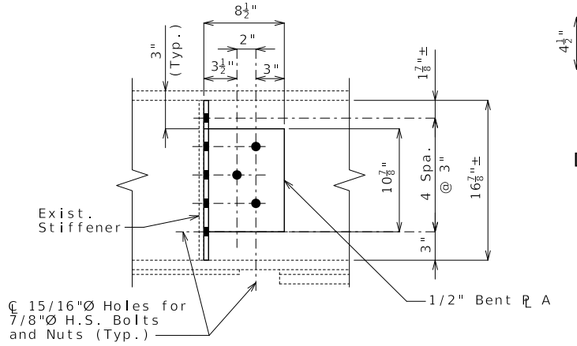


PLAN

DETAILS OF BENT ℄ B



SECTION A-A



DETAIL A

Notes:

Fabricated structural steel for repairs shall be ASTM A709 Grade 36.

Field connections shall be made with 7/8-inch diameter high strength bolts and 15/16-inch diameter holes, except as noted.

High strength bolts, nuts and washers will be sampled for quality assurance as specified in Sec 106.

Payment for furnishing and installing plates and bent plates shall be considered completely covered by the contract unit price for Fabricated Structural Carbon Steel (Misc.).

STEEL REPAIR

Detailed Aug. 2026
Checked Aug. 2026

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

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TED S. KOESTER
NUMBER PE-2013000591
PROFESSIONAL ENGINEER
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MO-PE-2013000591

DATE PREPARED
10/26/2026

ROUTE	STATE
B	MO
DISTRICT	SHEET NO.
BR	5

COUNTY
COLE

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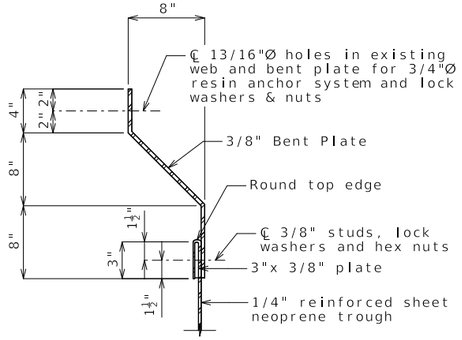
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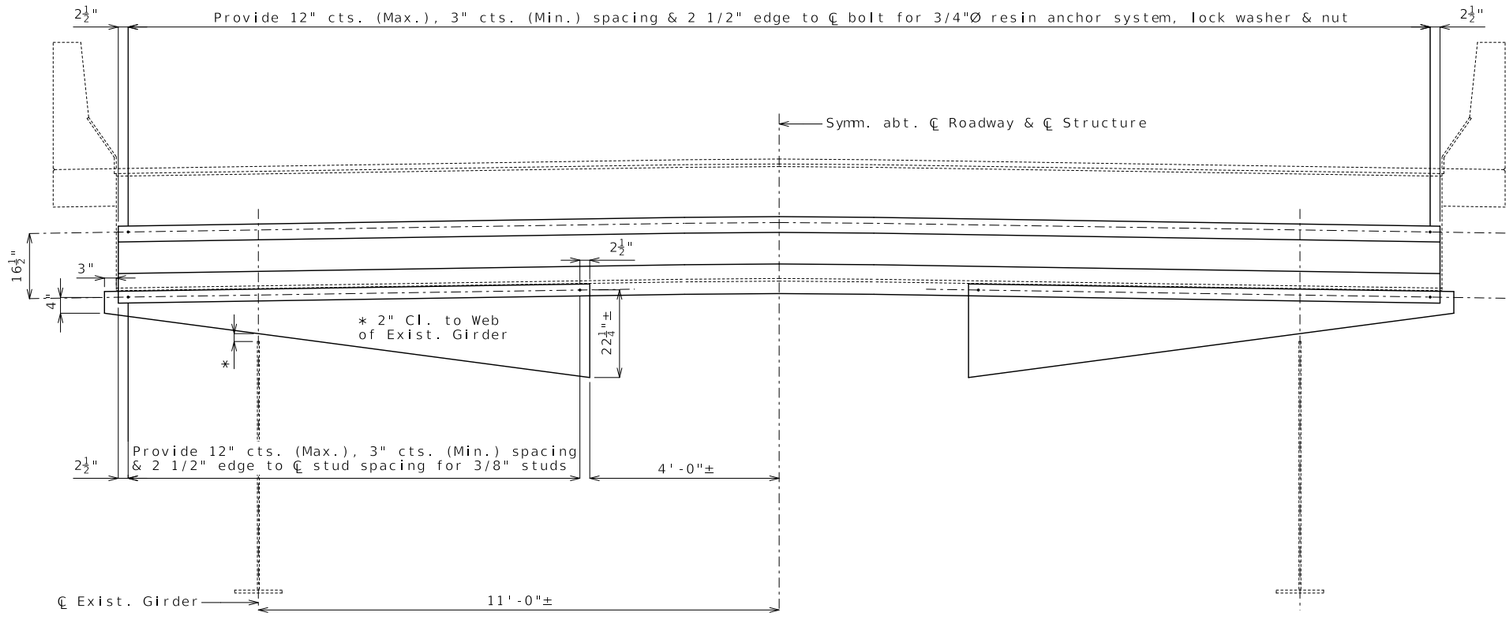
BRIDGE NO.
K06564

DESCRIPTION	DATE

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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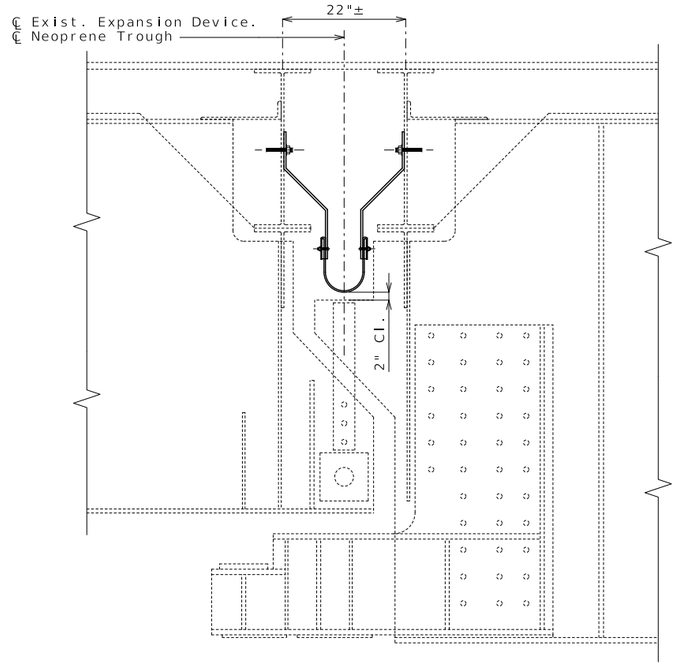
TYPICAL SECTION THRU
3/8" BENT PLATE



(1) 13/16"Ø Holes in existing web and bent plate for 3/4"Ø resin anchor system and lock washers & nuts (Spa. as shown)

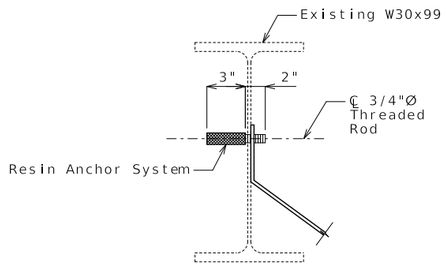
(2) ℄ 3/8"Ø studs, lock washers and hex nuts (Spa. as shown)

ELEVATION OF EXPANSION DEVICE DRAINAGE TROUGH AT ℄ JOINT



SECTION A-A

(Girder No. 1 shown, Girder No. 2 similar)



DETAIL OF RESIN
ANCHOR SYSTEM

Notes:

Apply caulk to back of 3/8" plate before bolting to the existing wide flange. Caulk shall be compatible with both the paint on the existing members and the galvanizing on the 3/8" plate.

Verify stiffener locations in field for notch placement.

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

Cost of furnishing and installing the resin anchor systems, complete in place, will be considered completely covered by the contract unit price for Expansion Device Drainage Trough System.

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

Resin anchor system embedment depth shall be 3".

The 3/8-inch plates shall be fabricated of welded sheets of ASTM A709 Grade 36 steel.

The 3/8-inch plates shall be galvanized in accordance with ASTM A123.

All bolts, hardened washers, lock washers and nuts shall be galvanized in accordance with ASTM 153.

Shop drawings will be required for Expansion Device Drainage Trough.

For material requirements of neoprene trough, see special provisions.

Payment for furnishing and installing expansion device drainage troughs, complete in place, will be considered completely covered by the contract unit price for Expansion Device Drainage Trough System.

EXPANSION DEVICE DRAINAGE TROUGH AT PIER NO. 2 & 6

(Int. Bent No. 2 shown, Int. Bent No. 6 similiar)

Detailed Sep. 2026
Checked Sep. 2026

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

STATE OF MISSOURI
TED S. KOESTER
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DATE PREPARED
10/26/2026

ROUTE	STATE
B	MO
DISTRICT	SHEET NO.
BR	6

COUNTY
COLE

JOB NO.
JCD0258

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
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DESCRIPTION	DATE

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JEFFERSON CITY, MO 65102
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