

DESIGN DESIGNATION

BRIDGE-A1983 (RTE 23)
A.A.D.T - 2024 = 1001
V = 55 M.P.H.
FUNCTIONAL CLASSIFICATION- MAJOR COLLECTOR

BRIDGE-A0808 (RTE 65)
A.A.D.T - 2024 = 3999
V = 65 M.P.H.
FUNCTIONAL CLASSIFICATION- FREEWAY

BRIDGE-R0545 (RTE E)
A.A.D.T - 2024 = 136
V = 55 M.P.H.
FUNCTIONAL CLASSIFICATION- MAJOR COLLECTOR

BRIDGE-A2124 (RTE U)
A.A.D.T - 2024 = 1077
V = 55 M.P.H.
FUNCTIONAL CLASSIFICATION- MAJOR COLLECTOR

BRIDGE-X0223 (RTE M)
A.A.D.T - 2024 = 1144
V = 55 M.P.H.
FUNCTIONAL CLASSIFICATION- MAJOR COLLECTOR

NO RIGHT-OF-WAY
ACQUISITION

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
PLANS FOR PROPOSED
STATE HIGHWAY

VARIOUS COUNTIES

BRIDGE PAINTING AT VARIOUS LOCATIONS



KEY MAP
LOCATION OF LAFAYETTE, SALIN,
JOHNSON, PETTIS COUNTY

ROUTE 24 BRIDGE-A2850
BEGIN LOG MILE: 55.558
END LOG MILE: 55.611

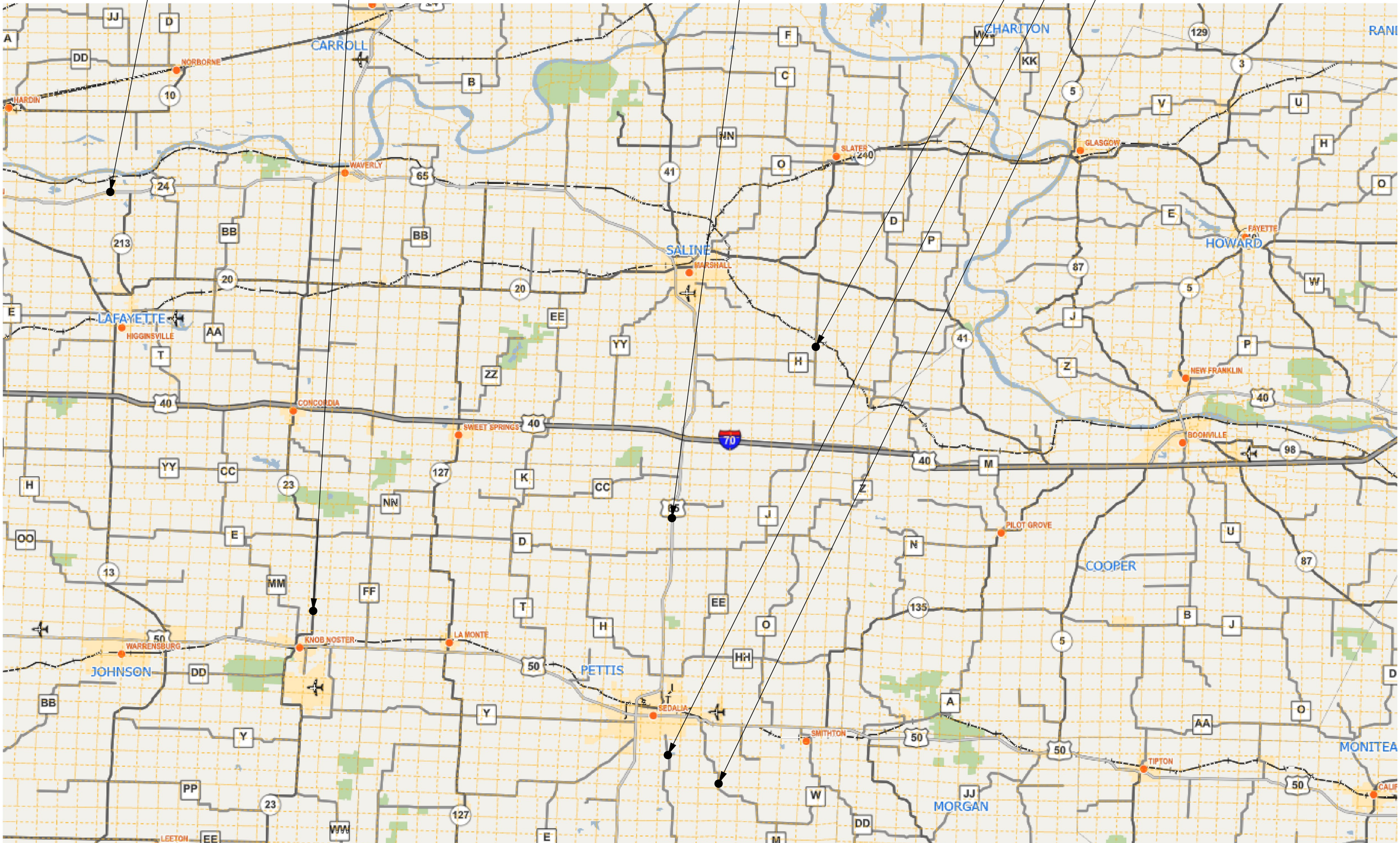
ROUTE 23 BRIDGE-A1983
BEGIN LOG MILE: 21.146 NB
END LOG MILE: 21.185 NB

ROUTE 65 BRIDGE-A0808
BEGIN LOG MILE: 134.942 SB
END LOG MILE: 134.99 SB

ROUTE E BRIDGE-R0545
BEGIN LOG MILE: 4.394 SB
END LOG MILE: 4.457 SB

ROUTE U BRIDGE-A2124
BEGIN LOG MILE: 1.469 SB
END LOG MILE: 1.592 SB

ROUTE M BRIDGE-X0223
BEGIN LOG MILE: 14.658 SB
END LOG MILE: 14.696 SB



NOT TO SCALE

INDEX OF SHEETS

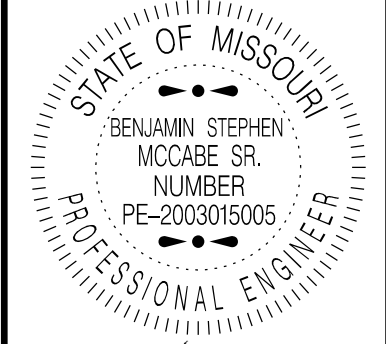
DESCRIPTION	SHEET NUMBER
TITLE SHEET -----	1
QUANTITIES (QU) (1 SHEET)-----	3
TRAFFIC CONTROL SHEETS (TC)-----	4-8

LENGTH OF PROJECT

BRIDGE-A2850 (RTE 24) BEGINNING OF PROJECT END OF PROJECT	LOG MILE 55.558 +/- LOG MILE 55.611 +/-
APPARENT LENGTH	280 FEET
BRIDGE-A1983 (RTE 23) BEGINNING OF PROJECT END OF PROJECT	LOG MILE 21.146 +/- LOG MILE 21.185 +/-
APPARENT LENGTH	206 FEET
BRIDGE A0808 (RTE 65) BEGINNING OF PROJECT END OF PROJECT	LOG MILE 134.942 +/- LOG MILE 134.990 +/-
APPARENT LENGTH	254 FEET
BRIDGE R0545 (RTE E) BEGINNING OF PROJECT END OF PROJECT	LOG MILE 4.394 +/- LOG MILE 4.457 +/-
APPARENT LENGTH	333 FEET
BRIDGE A2124 (RTE U) BEGINNING OF PROJECT END OF PROJECT	LOG MILE 1.469 +/- LOG MILE 1.592 +/-
APPARENT LENGTH	650 FEET
BRIDGE X0223 (RTE M) BEGINNING OF PROJECT END OF PROJECT	LOG MILE 14.658 +/- LOG MILE 14.696 +/-
APPARENT LENGTH	201 FEET

NET LENGTH OF PROJECT	1924 FEET
STATE LENGTH	0.364 MILES

FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0 ACRES
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Benjamin Stephen McCabe, Sr.
12/22/2025 10:50:34 AM
BENJAMIN STEPHEN MCCABE SR., CIVIL
MO-PE-2003015005

DATE PREPARED
12/22/2025

ROUTE STATE
VAR MO

DISTRICT SHEET NO.
KC 1

COUNTY
VARIOUS

JOB NO.
JKR0139

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

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SIGN	SIZE	AREA	QTY	TOTAL	QTY	TOTAL	SIGN	DESCRIPTION	SIGN	SIZE	AREA	QTY	TOTAL	QTY	TOTAL	SIGN	DESCRIPTION	ITEM	TOTAL	EFFECTIVE: 07-01-2025
IN.	SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NO.	IN.		SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NO.	NUMBER	QTY		DESCRIPTION		
WARNING SIGNS									GUIDE SIGNS									6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)	E05-1	36X48	12.00						GORE EXIT	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)	E05-2	48X36	12.00						EXIT OPEN	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)	E05-2a	48X36	12.00						EXIT CLOSED	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)	GO20-1	60X24	10.00						ROAD WORK NEXT XX MILES	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24	8.00						END ROAD WORK	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)	GO20-4	36X18	4.50						PILOT CAR FOLLOW ME	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)	GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)	GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW	6122030		IMPACT ATTENUATOR (RELOCATION)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5aP	36X24	6.00	2	12.00			54	WORK ZONE (PLAQUE)	6122040		WORK ZONE CRASH CUSHION (NARROW)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-8a	24X18	3.00						END DETOUR	6122041		WORK ZONE CRASH CUSHION (RELOCATION)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L	48X36	12.00						DETOUR (LEFT)	6123001		TRUCK MOUNTED ATTENUATOR (TMA)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-9R	48X36	12.00						DETOUR (RIGHT)	6161012		BUOYS (BOATS KEEP OUT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)	MO4-9P	48X12	4.00						STREET NAME (PLAQUE)	6161013		BUOYS (NO WAKE)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)	6161020		CHANNELIZER (DRUM-LIKE)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	REGULATORY SIGNS									6161022		CHANNELIZER (CONE)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)	R1-1	48X48	13.25						STOP	6161025	75	CHANNELIZER (TRIM-LINE)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TRI.	6.93						YIELD	6161026		CHANNELIZER (VERTICAL PANEL)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)	R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)	6161030		TYPE 3 MOVEABLE BARRICADE
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)	R1-3P	30X12	2.50						ALL WAY (PLAQUE)	6161033		DIRECTION INDICATOR BARRICADE
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)	R2-1	36X45	12.00	2	24.00			4	SPEED LIMIT 45	6161040	1	FLASHING ARROW PANEL
WO3-4	48X48	16.00	4	64.00			11	BE PREPARED TO STOP	R2-1	36X47	12.00	2	24.00			25	SPEED LIMIT 55	6161047		TYPE 3 OBJECT MARKER
WO3-5	48X48	16.00						SPEED LIMIT AHEAD	R2-1	36X48	12.00	2	24.00			25	SPEED LIMIT 65	6161055		SEQUENTIAL FLASHING WARNING LIGHT
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)	R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)	6161070		TUBULAR MARKER
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)	R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM
WO4-1aL	48X48	16.00	1	16.00			6A	MERGE (LEFT)	R3-3	36X36	9.00						NO TURNS	6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
WO4-1aR	48X48	16.00	1	16.00			6A	MERGE (RIGHT)	R3-4	48X48	16.00						NO U-TURN (SYMBOL)	6161098A		CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS	R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT	6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
WO5-3	48X48	16.00						ONE LANE BRIDGE	R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT	6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
WO5-5	48X48	16.00	2	32.00			34	NARROW LANES	R4-1	36X48	12.00						DO NOT PASS	6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)	R4-2	36X48	12.00						PASS WITH CARE	6173600D		TEMPORARY TRAFFIC BARRIER, CONTRACTOR FURNISHED/RETAINED
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)	R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)	6173700B		TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)	R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)	6173706		TEMP. TRAFFIC BARRIER STIFFNESS TRANSITION CONTRACTOR FURNISHED/RETAINED
WO7-3a	30X24	5.00	2	10.00			44A	NEXT 1 MILES (PLAQUE)	R5-1	30X30	6.25						DO NOT ENTER	6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION, CONTRACTOR FURNISHED/RETAINED
WO8-1	48X48	16.00						BUMP	R5-1a	36X24	6.00						WRONG WAY	6175010A		RELOCATING TEMP. TRAFFIC BARRIER
WO8-2	48X48	16.00						DIP	R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)	6175011B		RELOCATING TEMP. TRAFFIC BARRIER ANCHORED
WO8-3	48X48	16.00						PAVEMENT ENDS	R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)	6175013		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS
WO8-4	48X48	16.00						SOFT SHOULDER	R6-2L	24X30	5.00						ONE WAY (LEFT)	6175020A		RELOCATING TEMP. TRAFFIC BARRIER HEIGHT
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)	R6-2R	24X30	5.00						ONE WAY (RIGHT)	6208064A		TEMPORARY RAISED PAVEMENT MARKER
WO8-6	48X48	16.00						TRUCK CROSSING	R9-9	24X12	2.00						SIDEWALK CLOSED	9029400		TEMPORARY TRAFFIC SIGNALS
WO8-6c	48X48	16.00						TRUCK ENTRANCE	R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE	9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING
WO8-7	36X36	9.00						LOOSE GRAVEL	R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE			
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL	R10-6	24X36	6.00						STOP HERE ON RED (45^ ARROW)			
WO8-9	48X48	16.00						LOW SHOULDER	R11-2	48X30	10.00						ROAD CLOSED			
WO8-11	48X48	16.00						UNEVEN LANES	R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY			
WO8-12	48X48	16.00						NO CENTER LINE	R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC			
WO8-15	48X48	16.00						GROOVED PAVEMENT	CONST-3A	60X48	20.00						FINE SIGN			
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)	CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)			
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)	MISCELLANEOUS SIGNS											
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)	CONST-5	48X36	12.00						POINT OF PRESENCE			
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)	CONST-5	96X48	32.00						POINT OF PRESENCE			
W10-1	42RND.	9.62						RA												

STATE OF MISSOURI

BENJAMIN STEPHEN MCCABE SR.
NUMBER PE-2003015005
PROFESSIONAL ENGINEER

Benjamin Stephen McCabe Sr.
12/22/2025 10:51:36 AM
BENJAMIN STEPHEN MCCABE SR - CIVIL
MO-PE-2003015005

DATE PREPARED
12/22/2025

ROUTE
VAR

STATE
MO

DISTRICT
KC

SHEET NO.
3

COUNTY
VARIOUS

JOB NO.
JKR0139

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)

SPACING AND TAPER LENGTHS FOR WORK ZONE SIGNS, CHANNELIZERS AND CONCRETE BARRIER

SIGN SPACING FOR ADVANCE SIGN SERIES (1) (2)		
PERMANENT POSTED 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 END TREATMENTS FOR CONCRETE BARRIER				
PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (3)			END TREATMENT (4)
	10'	11'	12'	
< 40	160'	168'	176'	BARRIER HEIGHT TRANSITION
> 40	160'	168'	176'	APPROVED CRASH CUSHION

TAPER LENGTHS AND SPACING FOR CHANNELIZERS							
PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (3)			MINIMUM SHOULDER TAPER LENGTH BASED ON 10' SHOULDER	BUFFER LENGTH FT	MAXIMUM CHANNELIZER SPACING	
	10'	11'	12'			THROUGH TAPER	THROUGH WORK AREA
0-35	205'	225'	245'	70'	280'	35'	40'
40-45	450'	495'	540'	150'	400'	40'	80'
50-55	550'	605'	660'	185'	560'	50'	80'
60-70	700'	770'	840'	235'	840'	60'	120'

- NOTE:
- (1)

SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OF SIGNED CONDITION.
- (2)

SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
- (3)

TAPER LENGTHS SHOWN INCLUDE LENGTH REQUIRED FOR LANE AND 10' SHOULDER
- (4)

CONCRETE BARRIER MAY BE INSTALLED AT 8:1 FLARE RATE FROM THE SHOULDER POINT OF THE LIMITS OF THE CLEAR ZONE WHERE THE SIDE SLOPE IS 6:1 OR FLATTER



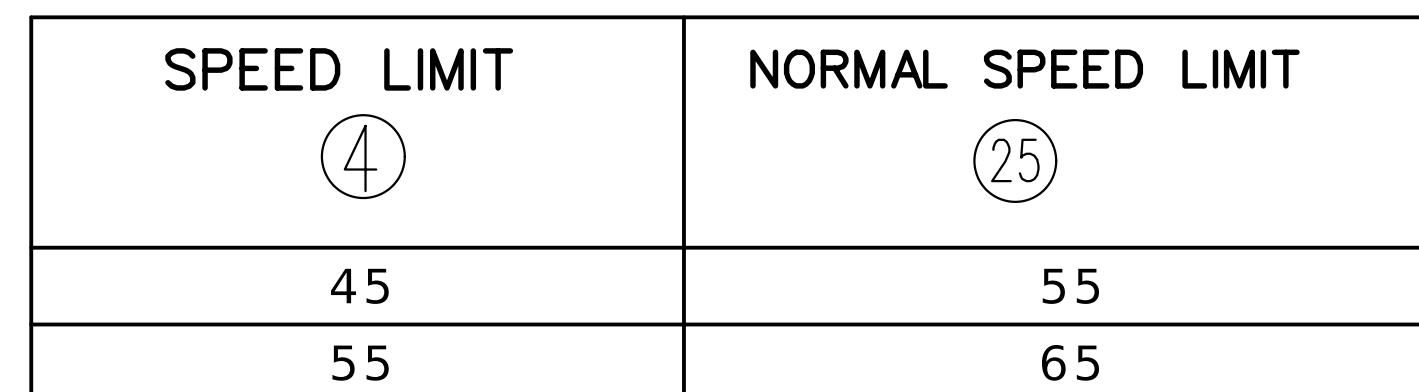
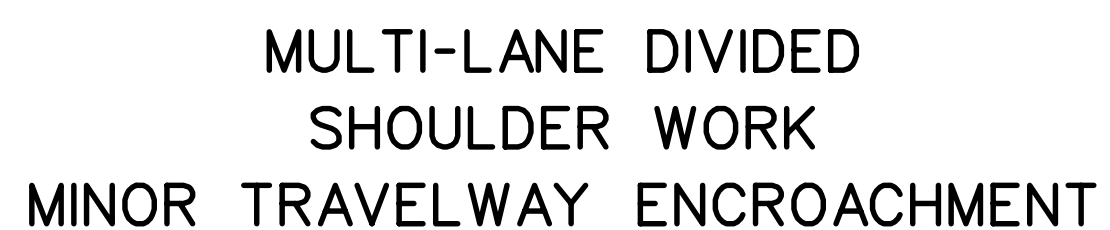
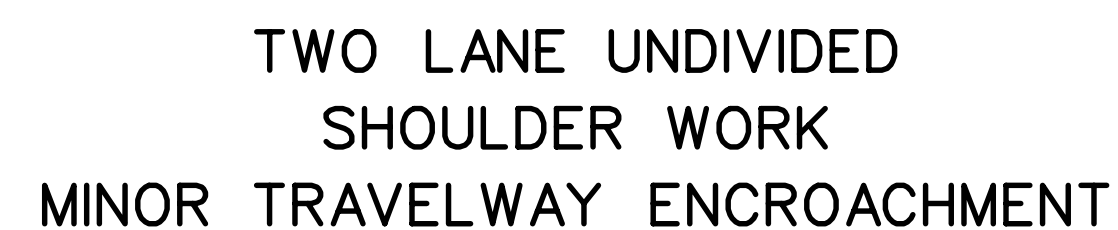
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DISTRICT	SHEET NO.
KC	4
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PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

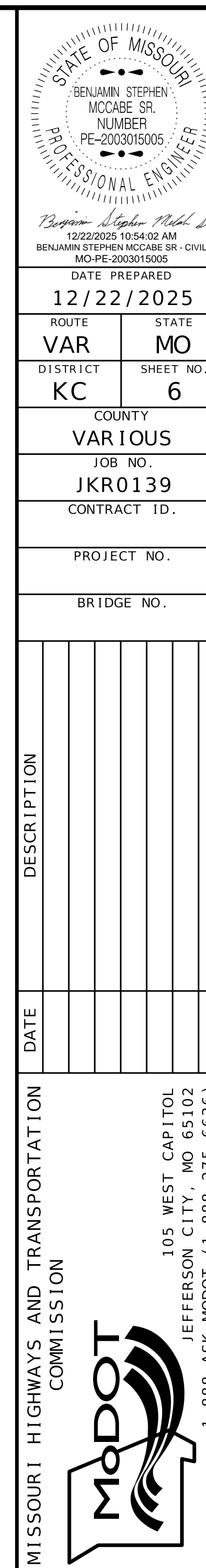
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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



(1). SIGN 44A NOT REQUIRED FOR NARROW LANE SECTIONS LESS THAN ONE MILE.

SHOULDER WORK
MINOR ENCROACHMENT
TEMPORARY
TRAFFIC CONTROL
SHEET 3 OF 5





SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES.

THIS INFORMATION ALSO SHALL BE USED WHEN WORK IS BEING PERFORMED IN THE LANE ADJACENT TO THE MEDIAN ON A DIVIDED HIGHWAY. IN THIS CASE, THE LEFT LANE CLOSED SIGNS AND THE CORRESPONDING MERGE OR LANE ENDS SIGN SHALL BE SUBSTITUTED.

WHEN A SIDE ROAD INTERSECTS THE HIGHWAY WITHIN THE TTC ZONE ADDITIONAL
TTC DEVICES SHALL BE PLACED AS NEEDED.

AN ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED. WHEN MORE THAN ONE FREEWAY LANE IS CLOSED, A SEPARATE ARROW BOARD SHALL BE USED FOR EACH CLOSED LANE.

STATIONARY
LANE CLOSURE
ON DIVIDED HIGHWAY
TEMPORARY
TRAFFIC CONTROL
SHEET 5 OF 5

