#### DESIGN DESIGNATION

A.A.D.T. - 2024 = 2492 V = 55 M.P.H. T = 10.3%

FUNCTIONAL CLASSIFICATION- PRINCIPAL ARTERIAL

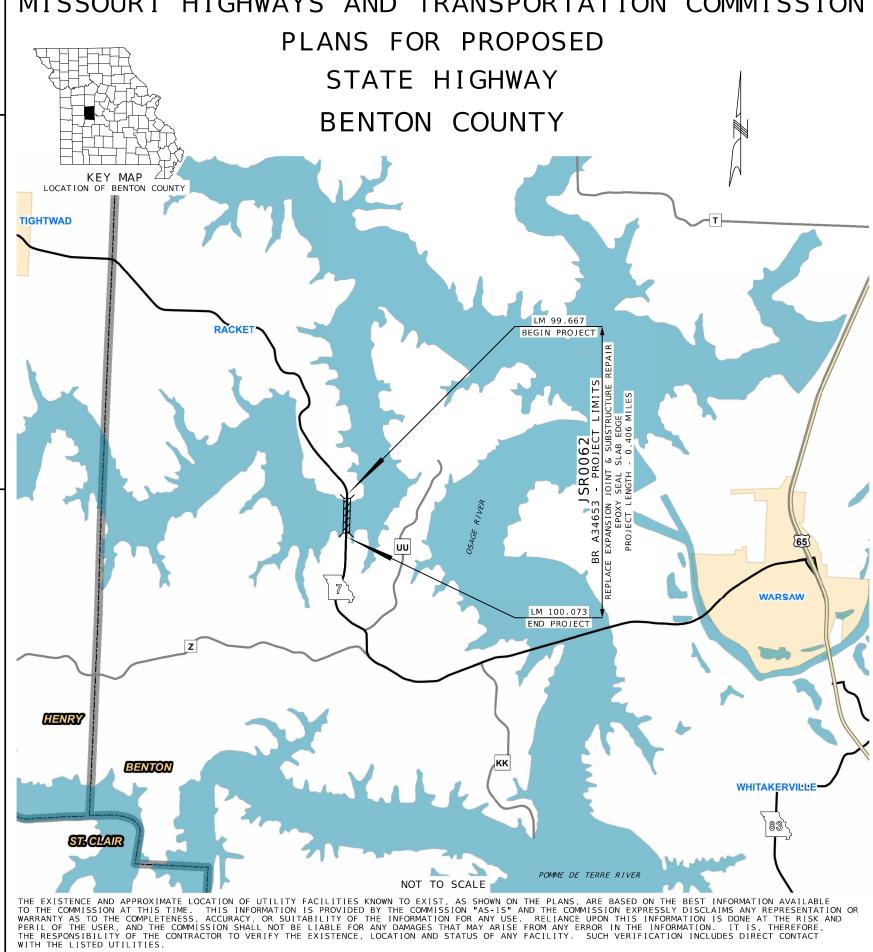
#### NO NEW R/W REQUIRED

#### CONVENTIONAL SYMBOLS (USED IN PLANS)

(0020 111 12/110	. ,	
	EXISTING	NEW
BUILDINGS AND STRUCTURES GUARD RAIL GUARD CABLE CONCRETE RIGHT-OF-WAY MARKER STEEL RIGHT-OF-WAY MARKER LOCATION SURVEY MARKER	0000	••••
UTILITIES FIBER OPTICS OVERHEAD CABLE TV UNDERGROUND CABLE TV OVERHEAD TELEPHONE UNDERGROUND TELEPHONE OVERHEAD POWER UNDERGROUND POWER SANITARY SEWER STORM SEWER GAS WATER	- FO	-OTV- -UTV- -OT- -UT- -OE-
MANHOLE	HYD.	$\ni$
FIRE HYDRANT	wv	ĵ
WATER VALVE	"`C	€
WATER METER	⊕	)
DROP INLET	Ï	
DITCH BLOCK	=	₽
GROUND MOUNTED SIGN	SIGN	_
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL FENCE CHAIN LINK WOVEN WIRE GATE POST	PED V X	<i>'</i>
BENCHMARK	- ⊗	<b>)</b>

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



### INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (2 SHEETS)	2
QUANTITIES (QU) (2 SHEETS)	3
SPECIAL SHEETS (SS)	4
TRAFFIC CONTROL SHEETS (TC)	5 - 14
BRIDGE DRAWINGS (B)	
A34653	1-6

NUM PE-2023 NUM PE-2023 NUM PE-2023 NUM PE-2023 NUM PE-2023	ART BER 3037997 ET
KARA JEAN RI MO-PE-20	23037997
	REPARED
	/2024
ROUTE	STATE
_	
7	MO
7 DISTRICT	MO SHEET NO.
SW	SHEET NO.
SW	SHEET NO.
SW cou BEN	SHEET NO.  1  NTY  TON
SW cou BEN	SHEET NO.  1  NTY  TON  NO.
SW COU BEN JOB JSR(	SHEET NO.  1  NTY  TON  NO.  0062
SW  COU  BEN  JOB  JSR(  CONTRA	SHEET NO.  1  NTY  TON  NO.  0062  CCT ID.
SW  COU  BEN  JOB  JSR(  CONTRA	SHEET NO.  1 NTY TON NO. 0062 CCT ID.  CT NO.

#### LENGTH OF PROJECT

BEGINNING OF PROJECT	LM 99.667
END OF PROJECT	LM 100.073
APPARENT LENGTH	2145.2 FEET

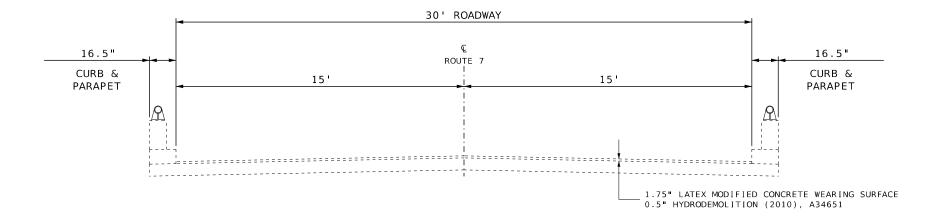
EQUATIONS AND EXCEPTIONS:

N/A ACRES

0.00 FEET TOTAL CORRECTIONS NET LENGTH OF PROJECT 2145.2 FEET STATE LENGTH 0.406 MILES

FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES

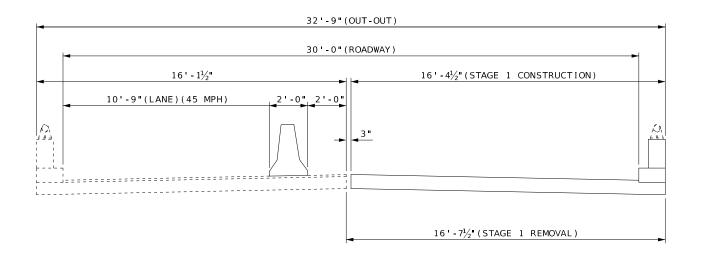
NOTES: DRAINAGE THROUGH UNDER HINGED EXPANSION JOINTS INSTALLED (2020), A34652



ROUTE 7 BRIDGE A34653

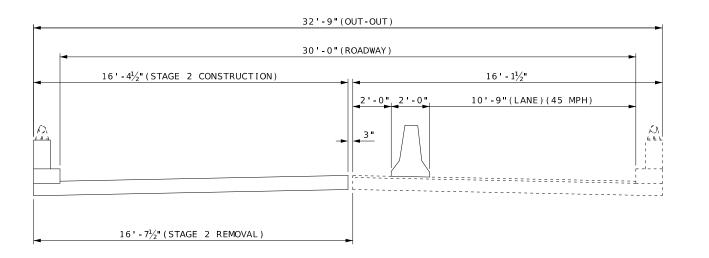
LOG MILE 99.667 TO LOG MILE 100.073





# ROUTE 7 BRIDGE A34653

TRAFFIC CONTROL STAGING 1 & 2 LOG MILE 99.667 TO LOG MILE 100.073





MISSOURI HIGHWAYS AND TR
COMMISSION

			TEN	MPORARY PAVEMENT M	MARK I NGS		
			STANDARD WATERBORNE	PAINT, TYPE P BEADS	PREFORMED THERMOPLASTIC		
			WHITE	YELLOW	WHITE		
LOG MILE	LOG MILE	OFFSET	4" SOLID	4" SOLID	24" SOLID	REMOVAL	REMARKS
			LF	LF	LF	LF	
STAGE 1 I	MARKINGS	ı. & REMOV	=:				
99.593	99.654	CL				650	DSY
99.635	100.105	RT				2485	EDGEL I NE
99.635	99.654	RT	100				TAPER
99.635	99.654	LT	100				TAPER
99.593	-	RT			12		STOP BAR
99.686	100.054	RT	1945				EDGEL I NE
100.086	100.147	CL				82	IY
100.086	100.105	RT	100				TAPERS
100.086	100.105	LT	100				TAPERS
100.147	-	LT			12		STOP BAR
100.147	100.242	CL		1000			DSY
STAGE 2 I	MARKINGS (	& REMOV	ALS				
99.635	99.654	RT / LT	200			200	TAPERS
99.635	100.105	LT				2485	EDGEL I NE
99.686	100.054	RT / LT	1945			1945	EDGEL I NE
100.086	100.105	RT / LT	200			200	TAPERS
CLEAN UP	REMOVALS						
99.593	-	RT				12	STOP BAR
99.635	99.654	RT / LT				200	TAPERS
99.686	100.054	LT				1945	EDGEL I NE
100.086	100.105	RT / LT				200	TAPERS
100.147	•	LT				12	STOP BAR
100.147	100.242	CL				1000	DSY
		TOTALS	4690	1000	24	11416	

Н	IIGH BUILD	WATERBOR	NE PAVEMEI	NT MARKIN	G, TYPE L	BEADS
			6"	4"	4"	
			SOLID	INT	SOLID	
LOG MILE	LOG MILE	OFFSET	WHITE	YELLOW	YELLOW	REMARKS
			LF	LF	LF	
ROUTE 7						
99.593	99.661	CL			718	DSY
99.635	100.105	RT	2485			EDGEL I NE
99.635	100.105	LT	2485			EDGEL I NE
99.661	99.822	CL		215	850	SY / IY
99.822	100.242	CL		550		ΙY
		TOTALS	4970	765	1568	
		USE	4970	23	33	

# CONTRACTOR FURNISHED SURVEYING AND STAKING 1 LUMP SUM

MOBILIZATION
1 LUMP SUM

KARA JEAN
HICHART
NUMBER
PE-2023037997
AUREN HICHART
MONES 2023037997
DATE PREPARED
11/4/2024

11/4/2024

ROUTE STATE
7 MO

DISTRICT SHEET NO.
SW 3

COUNTY
BENTON
JOB NO.
JSR0062
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

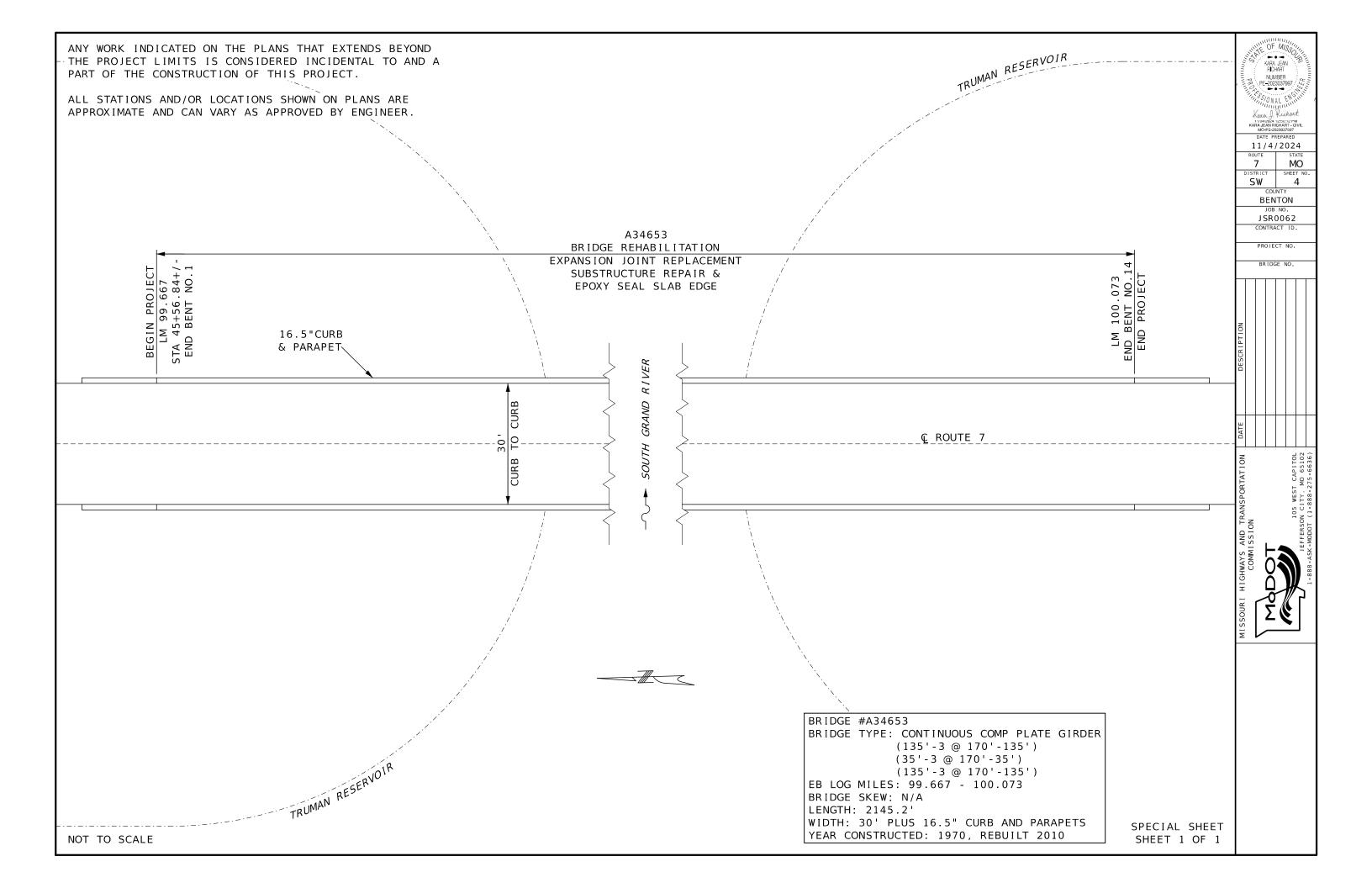
DESCRIPTION

ISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
LEFERSON CITY, MO 65102
LERBERSON CITY, MO 65102

															EFFECTIVE: 10-28-2024
			TOTAL	QTY TOTAL SIGN						Тс	TY TOTAL SIGN				10 20 2024
	SIZE	AREA OTY		RELOC RELOC NUM.			SIZE	AREALO	тү то-		LOC RELOC NUM.				
SIGN	IN.	SQ FT EACH		EACH SQ FT.		SIGN			I		ACH SQ FT		ITEM	TOTAL	
1			IING S		DESCRIPTION	5 7 6.1			UIDE			DESCRIPTION	NUMBER		DESCRIPTION
WO1-1L	48X48				TURN (SYMBOL LEFT)	E05-1	36X48	12.00		1 0.10		GORE EXIT	6122008	۷.,	IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
WO1-1R	48X48	16.00			TURN (SYMBOL RIGHT)	E05-2	48X36	12.00				EXIT OPEN	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
WO1-2L	48X48				CURVE (SYMBOL LEFT)	E05-2a	48X36					EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
WO1 - 2R	48X48				CURVE (SYMBOL RIGHT)	GO20-1		10.00				ROAD WORK NEXT XX MILES	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
WO1 - 3L WO1 - 3R	48X48 48X48				REVERSE TURN (SYMBOL LEFT) REVERSE TURN (SYMBOL RIGHT)	GO20-2 GO20-4	48X24 36X18		2 1	6		END ROAD WORK PILOT CAR FOLLOW ME	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)  IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
WO1 - 4L	48X48				REVERSE CURVE (SYMBOL LEFT)	GO20-4a						PILOT CAR TOLLOW ME	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
WO1 - 4R	48X48				REVERSE CURVE (SYMBOL RIGHT)							PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL
WO1-4b	48X48	16.00			DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5aP	36X24	6.00	2 1	2		WORK ZONE (PLAQUE)	6122030		IMPACT ATTENUATOR (RELOCATION)
	48X48				DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-8a	24X18					END DETOUR	6123001		TRUCK MOUNTED ATTENUATOR (TMA)
	48X48 48X48				TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT) TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4 - 9L MO4 - 9R	48X36 48X36					DETOUR (LEFT) DETOUR (RIGHT)	6161008 6161012	2	ADVANCED WARNING RAIL SYSTEM BUOYS (BOATS KEEP OUT)
WO1-40	60X30				HORIZONTAL ARROW (SYMBOL)	MO4 - 9P	48X12					STREET NAME (PLAQUE)	6161013		BUOYS (NO WAKE)
WO1-6a	72X36				HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L	48X18					DETOUR ARROW (LEFT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
WO1 - 7	60X30	12.50			DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4 - 10R	48X18					DETOUR ARROW (RIGHT)	6161025	52	CHANNELIZER (TRIM LINE)
WO1 - 7a	72X36				DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)				EGULA	TORY			6161030		TYPE III MOVEABLE BARRICADE
WO1 - 8		3.00			CHEVRON (SYMBOL)	R1-1	48X48					STOP	6161033		DIRECTION INDICATOR BARRICADE
WO1-8a WO3-1	30X36 48X48	16.00			CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS) STOP AHEAD (SYMBOL)	R1 - 2 R1 - 2a	48TR I .					YIELD TO ONCOMING TRAFFIC (PLAQUE)	6161040		FLASHING ARROW PANEL TYPE III OBJECT MARKER
WO3-1	48X48				YIELD AHEAD (SYMBOL)	R1 - 3P	30X12					ALL WAY (PLAQUE)	6161055		SEQUENTIAL FLASHING WARNING LIGHT
WO3 - 3		16.00 2	32		SIGNAL AHEAD (SYMBOL)	R2-1		12.00	4 4	8		SPEED LIMIT XX	6161070		TUBULAR MARKER
WO3 - 4	48X48				BE PREPARED TO STOP	R3 - 1	48X48					NO RIGHT TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM
WO3 - 5		16.00			SPEED LIMIT AHEAD	R3-2		16.00				NO LEFT TURN (SYMBOL)	6161000		CHANGEABLE MESSAGE SIGN,
WO4 - 1L WO4 - 1R	48X48 48X48				MERGE (SYMBOL FROM LEFT) MERGE (SYMBOL FROM RIGHT)	R3-3 R3-4	36X36 48X48					NO TURNS NO U-TURN (SYMBOL)	6161096		COMMISSION FURNISHED/RETAINED CHANGEABLE MESSAGE SIGN W/O COMM.
	48X48				MERGE (STMBOL FROM RIGHT)	R3 - 7L	30X30					LEFT LANE MUST TURN LEFT	6161098A		INTERFACE - CONTRACTOR FURNISHED/RETAINED
WO4 - 1 al	48X48	16.00			MERGE (RIGHT)	R3 - 7R	30X30					RIGHT LANE MUST TURN RIGHT			CHANGEABLE MESSAGE SIGN WITH COMM.
WO5 - 1	48X48				ROAD/BRIDGE/RAMP NARROWS	R4-1	36X48					DO NOT PASS	6161099		INTERFACE - CONTRACTOR FURNISHED/RETAINED
WO5 - 3	48X48				ONE LANE BRIDGE	R4-2	_	12.00				PASS WITH CARE	6162000A	1	WORK ZONE TRAFFIC SIGNAL SYSTEM
WO5 - 5 WO6 - 1	48X48	16.00			NARROW LANES DIVIDED HIGHWAY (SYMBOL)	R4-7a R4-8a	36X48	12.00				KEEP RIGHT (HORIZONTAL ARROW) KEEP LEFT (HORIZONTAL ARROW)	6162002		TEMPORARY LONG-TERM RUMBLE STRIPS TEMPORARY TRAFFIC BARRIER
WO6 - 2	48X48				DIVIDED HIGHWAY END (SYMBOL)	R5 - 1	30X30					DO NOT ENTER	6173600D	540	CONTRACTOR FURNISHED/RETAINED
WO6 - 3	48X48				TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24					WRONG WAY			TEMPORARY TRAFFIC BARRIER
WO7-3a	30X24	5.00			NEXT XX MILES (PLAQUE)	R6-1L	54X18					ONE WAY ARROW (LEFT)	6173602B		CONTRACTOR FURNISHED/COMMISSION RETAINED
WO8 - 1		16.00			BUMP	R6-1R	54X18					ONE WAY ARROW (RIGHT)	6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
WO8 - 2 WO8 - 3	48X48 48X48				DIP PAVEMENT ENDS	R6-2L R6-2R	24X30 24X30					ONE WAY (RIGHT)	6175010A	540	RELOCATING TEMPORARY TRAFFIC BARRIER TEMPORARY TRAFFIC BARRIER
WO8 - 4	48X48				SOFT SHOULDER	R9-9	24X12					ONE WAY (RIGHT) SIDEWALK CLOSED	6176000B		COMMISSION FURNISHED/RETAINED
WO8 - 5	48X48				SLIPPERY WHEN WET (SYMBOL)							SIDEWALK CLOSED AHEAD,			TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
WO8 - 6	48X48	16.00			TRUCK CROSSING	R9-11L	24X18	3.00				(ARROW LEFT) CROSS HERE	6177000B		COMMISSION FURNISHED/RETAINED
WO8-6c	48X48				TRUCK ENTRANCE							SIDEWALK CLOSED AHEAD,	6208064A		TEMPORARY RAISED PAVEMENT MARKER
WO8 - 7 WO8 - 7a	36X36 36X36				LOOSE GRAVEL   FRESH OIL / LOOSE GRAVEL	R9-11R R10-6	24X18		2 1	2		(ARROW RIGHT) CROSS HERE STOP HERE ON RED (45^ ARROW)	9029400		TEMPORARY TRAFFIC SIGNALS TEMPORARY TRAFFIC SIGNALS AND LIGHTING
WO8-7a					LOW SHOULDER	R11-2			2 1	2		ROAD CLOSED	6169901		AUTOMATED FLAGGER ASSISTANCE DEVICE
WO8 - 11					UNEVEN LANES							ROAD CLOSED XX MILES AHEAD			
-		16.00 2	32		NO CENTER LINE	R11-3a	_					LOCAL TRAFFIC ONLY			
WO8 - 15					GROOVED PAVEMENT	R11-4	_					ROAD CLOSED TO THRU TRAFFIC			
WO8 - 15					MOTORCYCLE (PLAQUE) SHOULDER DROP-OFF (SYMBOL LEFT)	CONST - 3A						FINE SIGN SPEEDING/PASSING (PLATE)			
WO8 - 17					SHOULDER DROP-OFF (SYMBOL RIGHT)	CONST-37	JUN12		1I SCEL	LANEO	US SIGNS	STEEDING/TASSING (TEATE)	<u> </u>		
WO8 - 17					SHOULDER DROP-OFF (PLAQUE)	CONST-5	96X48					POINT OF PRESENCE			
W10-1					RAILROAD CROSSING	CONST-8	48X36	12.00	2 2	4		WORK ZONE NO PHONE ZONE			
	24X24				DOUBLE DOWN ARROW (SYMBOL)										
WO12-2 W012-2					LOW CLEARANCE (SYMBOL) LOW CLEARANCE (PLAQUE)					_					
W012-2					OVERHEAD LOW CLEARANCE (FEET AND INCHES)										
WO12-4					LOW CLEARANCE XX FT XX IN XX MILES AHEAD										
WO12-5					WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD										
WO13-1					ADVISORY SPEED (PLAQUE)										
WO16-2 WO16-3					XXX FEET (PLAQUE)  X MILE (PLAQUE)										
		16.00 4	64		ROAD/BRIDGE/RAMP WORK AHEAD										
	48X48				DETOUR AHEAD										
WO20-3	48X48	16.00 2	32		ROAD CLOSED AHEAD	616-10				TAL					
	48X48		32		ONE LANE ROAD AHEAD	CONSTR		N SIGN	S 42	20					
WO20-5					RIGHT/CENTER/LEFT LANES CLOSED AHEAD	616-10		ICNE			TOTAL				
WO20-5					2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD RIGHT/CENTER/LEFT LANE CLOSED	RELOCA	ובט 2	I GN2			0				
	48X48		32		FLAGGER (SYMBOL)										
WO21-2					FRESH OIL										
WO21-5					SHOULDER WORK / SHOULDER WORK AHEAD									ς	UMMARY OF QUANTITIES
WO22-1					BLASTING ZONE AHEAD									J	•
	42X36 42X36				TURN OFF 2-WAY RADIO AND PHONE END BLASTING ZONE										SHEET 2 OF 2
-	21X15				WET PAINT (ARROW PIVOTS)										
I					•	•									

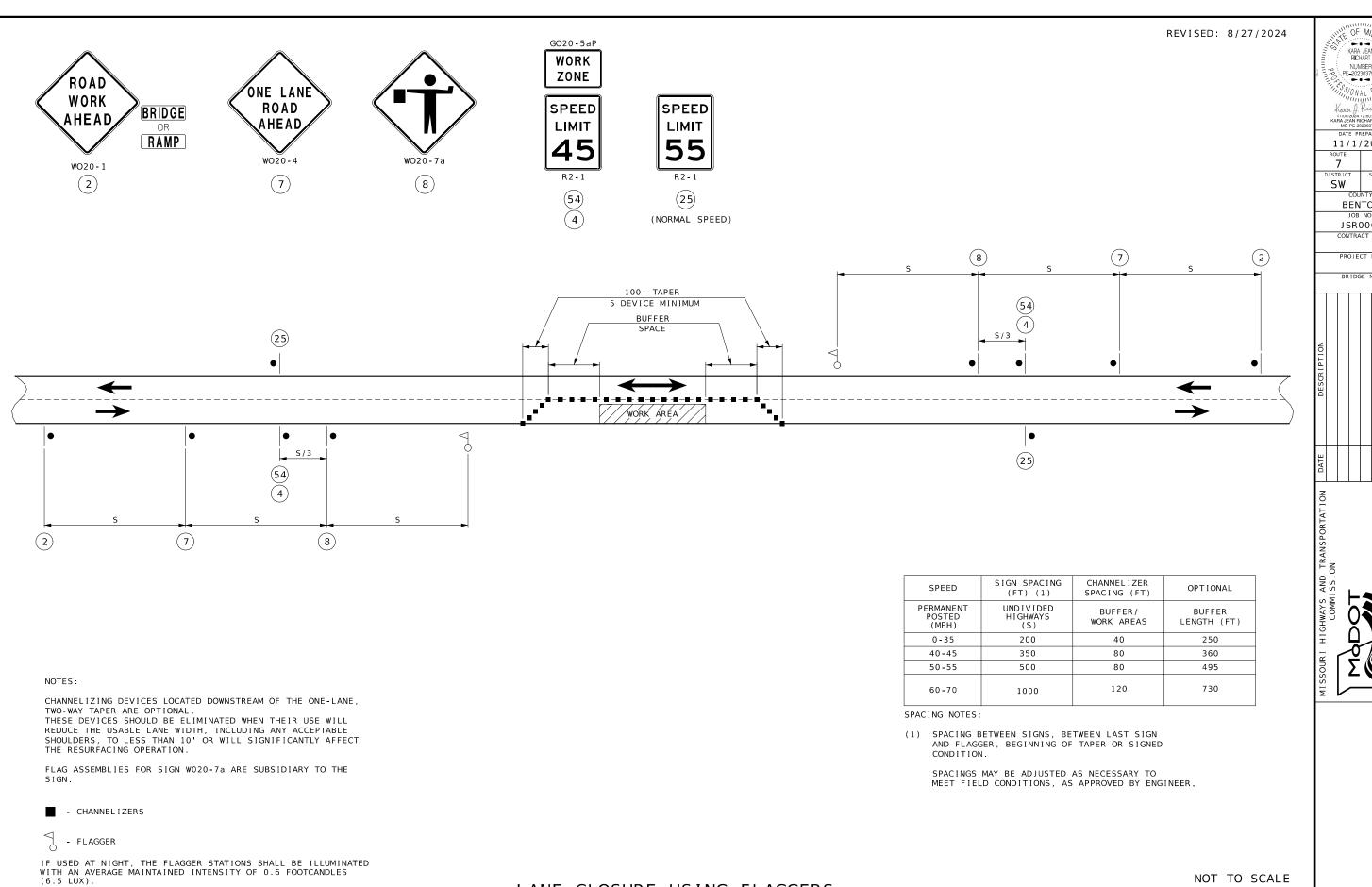
KARA JEAN HICHART NUMBER NUMBER NOW NALL ENGINEERS 11/4/2024 ROUTE 7 MO SHEET NO. SW BENTON JOB NO.
JSR0062
CONTRACT ID. PROJECT NO.



REVISED: 4/10/2024 1. ANY EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED KARA JEAN RICHART 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 NUMBER SIGNING SHOWN SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE. PE-2023037997 ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER. REFER TO STANDARD DRAWING 616.10, 619.10, AND 620.10 FOR ADDITIONAL DETAILS AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS. 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. TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST. NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONSTRUCTION SIGNS, OR FLASHING ARROW PANEL. ALL SIGNS 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. 11/1/2024 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. 7 MO 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. SHEET NO SW5 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. BENTON 14. TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). JSR0062 CONTRACT ID. PROJECT NO BEGINNING OF PROJECT LIMITS; BRIDGE NO OR INITIAL WORK ZONE SIGN, IF LOCATED OUTSIDE PROJECT LIMITS. -END OF PROJECT LIMITS; END OF WORK ZONE TERMINATION AREA. IF LOCATED BEYOND END OF PROJECT; OR LAST WORK ZONE SIGN, IF LOCATED OUTSIDE (2A)\* (59) (1) PROJECT LIMITS. 500' (1) (3) 500' (1) 1000' (1) (61)(61) SIDE 500' (1) (3) 500' (1) 1000' (1) (59) (2A) \* Bridge TYPICAL BEGINNING AND END OF PROJECT (1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE (UNDIVIDED HIGHWAY) WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED. Improvements (2) 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 END THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE SIGN CONST-7-72. ROAD WORK ROAD WORK (3) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF GO20-2 500 FEET BEFORE THE ROAD WORK AHEAD SIGN. AHEAD (26) 10 13 375 6 20 (4) CMS PLACEMENT SHALL BE APPROVED BY THE ENGINEER. CONST-5-96 SH-FLAT SHEET; 3.000" Radius, 1.000" Border, White on, Blue "Bridge", D; "Improvements", D; "Fall 2025" Table of letter and object lefts CONST - 5 - 96 ROAD WORK **AHEAD** ROAD WORK **WORK ZONE** Completed as Promised NEXT 1 MILES NO PHONE ZONE WO20-1 GO20-1 CONST-5P-60 SHF-FLAT SHEET FLUORESCENT; 1.500" Radius, No border, Yellow; "Completed as Promised" Black, D 65% spacing; Table of latter and object lefts NOT TO SCALE (1) CONST-8 (59) (3) \*SIGN 2A WITH AWRS MUST TRAFFIC CONTROL (4)

BE GROUND OR SKID MOUNTED.

SHEET 1 OF 10



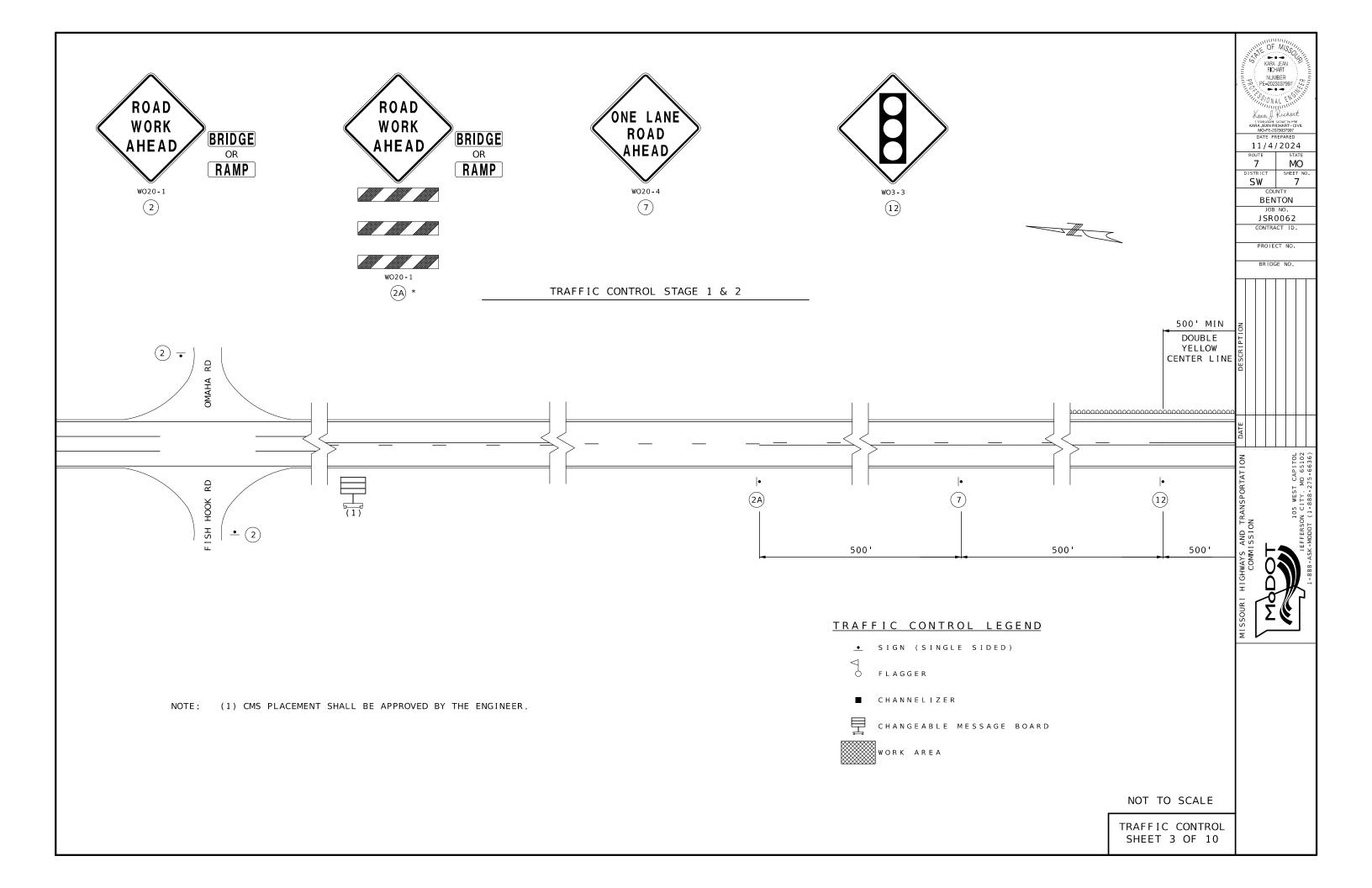
LANE CLOSURE USING FLAGGERS

(UNDIVIDED HIGHWAY)

KARA JEAN RICHART NUMBER PE-2023037997 Kara J. Richart 11/1/2024 MO SHEET NO 6 BENTON JSR0062 CONTRACT ID. PROJECT NO. BRIDGE NO.

NOT TO SCALE

TRAFFIC CONTROL SHEET 2 OF 10





CLOSE NB LANE AT BRIDGE
UTILIZE TEMPORARY SIGNAL AND SHIFT TRAFFIC ONTO SB LANE



KARA JEAN RICHART NUMBER PE-2023037997

Kara J. Richart

11/04/2024 12:02:33 PM

KARA JEAN RICHART - CIVI

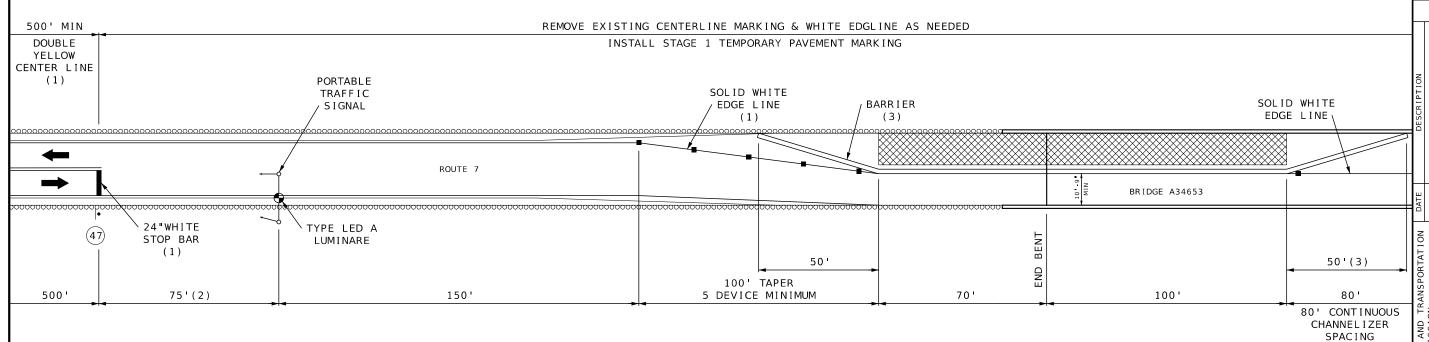
11/4/2024

ROUTE STATE
7 MO
DISTRICT SHEET NO
SW 8

JOB NO.
JSR0062
CONTRACT ID.

PROJECT NO.

BRIDGE NO.



#### NOTES

DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

- (1) SIGNING AND PAVEMENT MARKING IDENTICAL ON BOTH APPROACHES.
- (2) 75-FEET RECOMMENDED SPACING. SPACING MAY BE BETWEEN 40-FT AND 180-FEET.
- (3) FLARE BARRIER TO EXTEND BEYOND CLEAR ZONE OR FLARE BARRIER TO EDGE LINE AND USE APPROVED END TREATMENT.

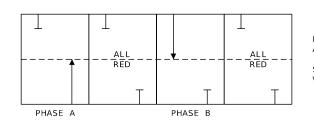
TEMPORARY TRAFFIC CONTROL SIGNALS SHALL MEET THE PHYSICAL DISPLAY AND OPERATIONAL REQUIREMENTS OF CONVENTIONAL TRAFFIC CONTROL SIGNALS.

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.

WHEN THE TEMPORARY TRAFFIC CONTROL SIGNAL IS CHANGED TO THE FLASHING MODE, EITHER MANUALLY OR AUTOMATICALLY, RED SIGNAL INDICATIONS SHALL BE FLASHED TO BOTH APPROACHES.

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, THE STOP LINES AND OTHER TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED AND THE PERMANENT PAVEMENT MARKINGS RESTORED.

SPEED	SIGN SPAC	ING (FT.)	TAPER LEN	GTH (FT.)	OPTIONAL	CHANNEL I ZER	SPACING (FT.)
PERM. POST (MPH)	UNDIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (FT.) (B)	TAPERS	BUFFER/ WORK AREAS
50-55	500	-	-	-	560	25	80
	TAPER LENGTH ER LENGTH BAS		,		WIDTH) OFFSET FFSET		



PHASE A AND PHASE B SHALL ALWAYS BE FOLLOWED BY AN ALL RED PHASE OR INTERVAL.

SIGNALS SHALL REST IN ALL RED WHEN THERE ARE NO VEHICLE CALL.

# TRAFFIC CONTROL LEGEND

• SIGN (SINGLE SIDED)

FLAGGER

CHANNELIZER

CHANGEABLE MESSAGE BOARD



NOT TO SCALE

TRAFFIC CONTROL SHEET 4 OF 10



CLOSE NB LANE AT BRIDGE UTILIZE TEMPORARY SIGNAL AND SHIFT TRAFFIC ONTO SB LANE



PORTABLE TRAFFIC SIGNAL KARA JEAN
FICHART
NUMBER
PE-2020307997

Kover J. Richart 11104/2024 12:02:03 PM KARA JEAN RICHART - CIVIL

11/4/2024

ROUTE STATE
7 MO
DISTRICT SHEET NO
SW 9

JOB NO.
JSR0062
CONTRACT ID.

PROJECT NO.

500' MIN

500'

BRIDGE NO.



100' TAPER

5 DEVICE MINIMUM

50'

70'

DOUBLE YELLOW CENTER LINE (1) SOLID WHITE 24"WHITE TYPE LED A BARRIER SOLID WHITE EDGE LINE \ STOP BAR LUMINARE EDGE LINE (3) (1) (1)ROUTE 7 BRIDGE A34653

80' CONTINUOUS CHANNELIZER SPACING

50'(3)

NOTES

DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

- (1) SIGNING AND PAVEMENT MARKING IDENTICAL ON BOTH APPROACHES.
- (2) 75-FEET RECOMMENDED SPACING. SPACING MAY BE BETWEEN 40-FT AND 180-FEET.
- (3) FLARE BARRIER TO EXTEND BEYOND CLEAR ZONE OR FLARE BARRIER TO EDGE LINE AND USE APPROVED END TREATMENT.

TEMPORARY TRAFFIC CONTROL SIGNALS SHALL MEET THE PHYSICAL DISPLAY AND OPERATIONAL REQUIREMENTS OF CONVENTIONAL TRAFFIC CONTROL SIGNALS.

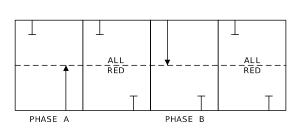
100'

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.

WHEN THE TEMPORARY TRAFFIC CONTROL SIGNAL IS CHANGED TO THE FLASHING MODE, EITHER MANUALLY OR AUTOMATICALLY, RED SIGNAL INDICATIONS SHALL BE FLASHED TO BOTH APPROACHES.

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, THE STOP LINES AND OTHER TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED AND THE PERMANENT PAVEMENT MARKINGS RESTORED.

SPEED	SIGN SPAC	ING (FT.)	TAPER LEN	GTH (FT.)	OPTIONAL	CHANNELIZER SPACING (FT						
PERM. POST (MPH)	UNDIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (FT.) (B)	TAPERS	BUFFER/ WORK AREAS					
50-55	500	-	-	-	560	25	80					
	TAPER LENGTH ER LENGTH BAS		,		WIDTH) OFFSET FFSET							



PHASE A AND PHASE B SHALL ALWAYS BE FOLLOWED BY AN ALL RED PHASE OR INTERVAL.

150'

SIGNALS SHALL REST IN ALL RED WHEN THERE ARE NO VEHICLE CALL.

# TRAFFIC CONTROL LEGEND

75'

• SIGN (SINGLE SIDED)

FLAGGER

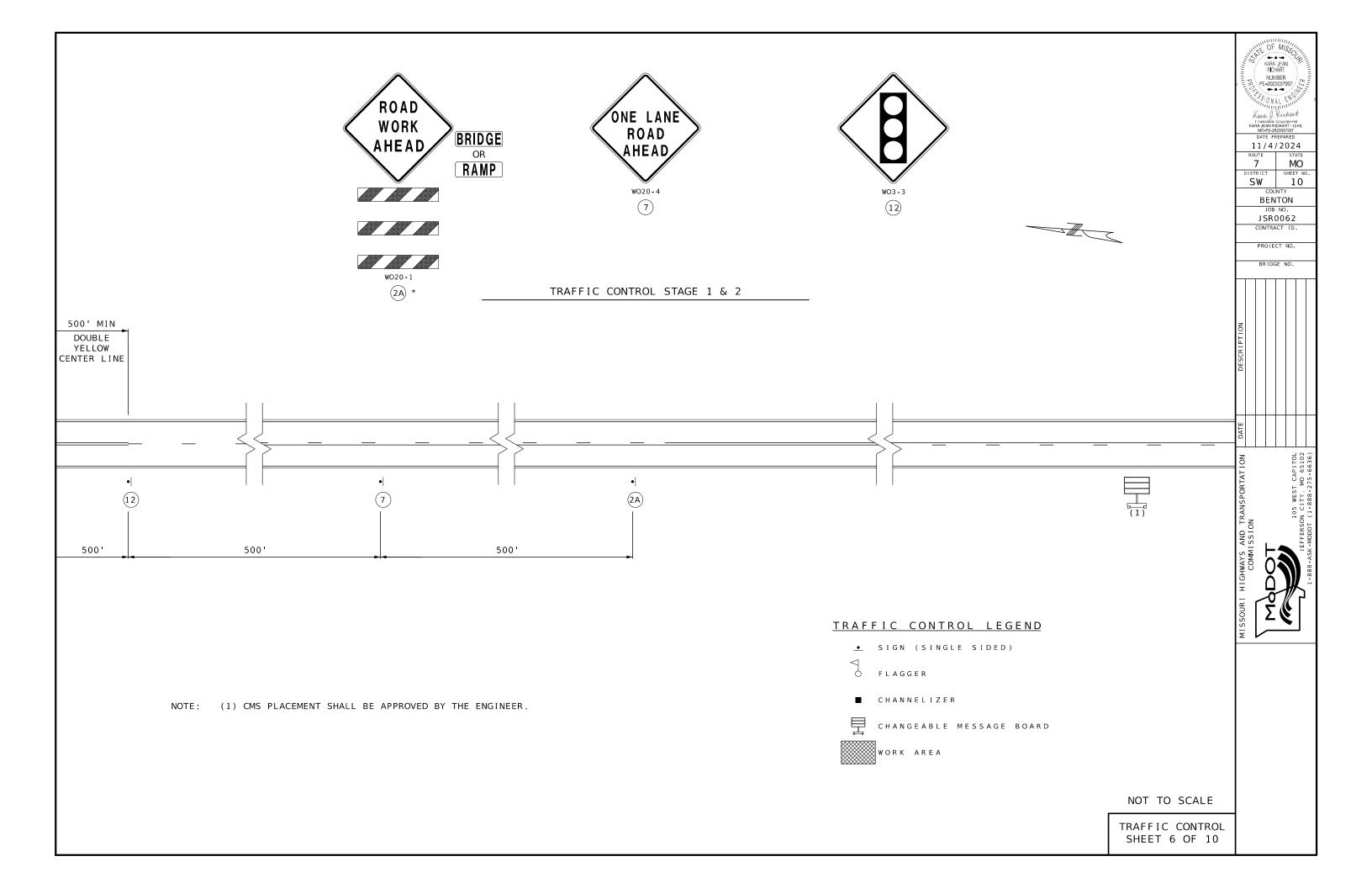
CHANNELIZER

CHANGEABLE MESSAGE BOARD



NOT TO SCALE

TRAFFIC CONTROL SHEET 5 OF 10





CLOSE SB LANE AT BRIDGE
UTILIZE TEMPORARY SIGNAL AND SHIFT TRAFFIC ONTO NB LANE



KARA JEAN RICHART NUMBER NUMBE

Kare J. Richart 11. Vazzuza 12:53:22 PM KARA JEAN RICHART - CIVIL MO-PE-2023037997

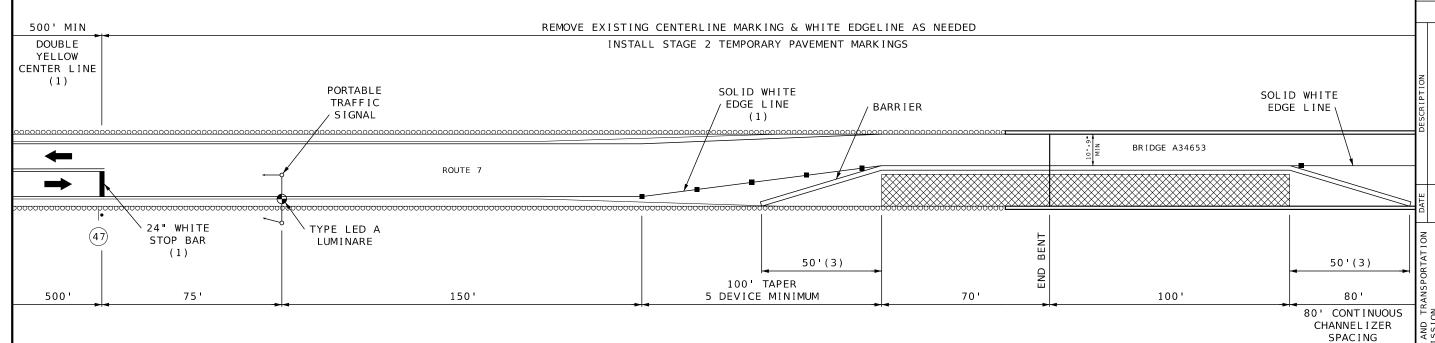
11/4/2024

ROUTE STATE
7 MO
DISTRICT SHEET NO
SW 11

JOB NO.
JSR0062
CONTRACT ID.

PROJECT NO.

BRIDGE NO.



#### NOTES

DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

- (1) SIGNING AND PAVEMENT MARKING IDENTICAL ON BOTH APPROACHES.
- (2) 75-FEET RECOMMENDED SPACING. SPACING MAY BE BETWEEN 40-FT AND 180-FEET.
- (3) FLARE BARRIER TO EXTEND BEYOND CLEAR ZONE OR FLARE BARRIER TO EDGE LINE AND USE APPROVED END TREATMENT.

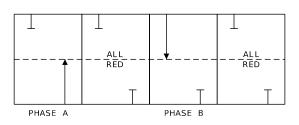
TEMPORARY TRAFFIC CONTROL SIGNALS SHALL MEET THE PHYSICAL DISPLAY AND OPERATIONAL REQUIREMENTS OF CONVENTIONAL TRAFFIC CONTROL SIGNALS.

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.

WHEN THE TEMPORARY TRAFFIC CONTROL SIGNAL IS CHANGED TO THE FLASHING MODE, EITHER MANUALLY OR AUTOMATICALLY, RED SIGNAL INDICATIONS SHALL BE FLASHED TO BOTH APPROACHES.

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, THE STOP LINES AND OTHER TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED AND THE PERMANENT PAVEMENT MARKINGS RESTORED.

SPEED	SIGN SPAC	ING (FT.)	TAPER LEN	GTH (FT.)	OPTIONAL	CHANNEL I ZER	SPACING (FT.)
PERM. POST (MPH)	UNDIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (FT.) (B)	TAPERS	BUFFER/ WORK AREAS
50-55	500	-	-	-	560	25	80
	TAPER LENGTH ER LENGTH BAS				WIDTH) OFFSET FFSET		



PHASE A AND PHASE B SHALL ALWAYS BE FOLLOWED BY AN ALL RED PHASE OR INTERVAL.

SIGNALS SHALL REST IN ALL RED WHEN THERE ARE NO VEHICLE CALL.

# TRAFFIC CONTROL LEGEND

SIGN (SINGLE SIDED)

FLAGGER

CHANNELIZER

CHANGEABLE MESSAGE BOARD



NOT TO SCALE

TRAFFIC CONTROL SHEET 7 OF 10



CLOSE SB LANE AT BRIDGE UTILIZE TEMPORARY SIGNAL AND SHIFT TRAFFIC ONTO NB LANE

REMOVE EXISTING CENTERLINE MARKING & WHITE EDGELINE AS NEEDED



KARA JEAN RICHART

11/4/2024

7 MO SW 12

BENTON JSR0062 CONTRACT ID.

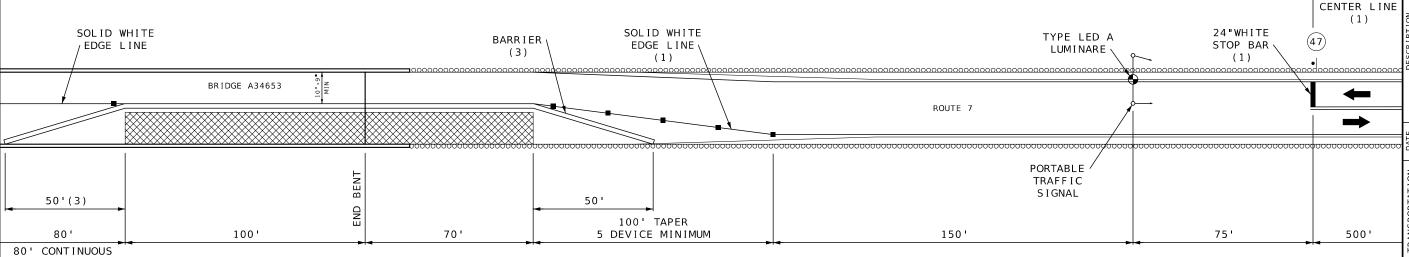
PROJECT NO.

500' MIN

DOUBLE YELLOW

BRIDGE NO.





CHANNELIZER SPACING

DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

- (1) SIGNING AND PAVEMENT MARKING IDENTICAL ON BOTH APPROACHES.
- (2) 75-FEET RECOMMENDED SPACING. SPACING MAY BE BETWEEN 40-FT AND 180-FEET.
- (3) FLARE BARRIER TO EXTEND BEYOND CLEAR ZONE OR FLARE BARRIER TO EDGE LINE AND USE APPROVED END TREATMENT.

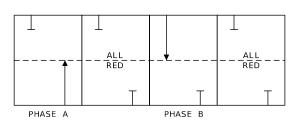
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SPEED	SIGN SPAC	ING (FT.)	TAPER LEN	GTH (FT.)	OPTIONAL	CHANNELIZER SPACING (FT					
PERM. POST (MPH)	UNDIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (FT.) (B)	TAPERS	BUFFER/ WORK AREAS				
50-55	500	-	-	-	560	25	80				
	TAPER LENGTH ER LENGTH BAS		,		WIDTH) OFFSET FFSET						



PHASE A AND PHASE B SHALL ALWAYS BE FOLLOWED BY AN ALL RED PHASE OR INTERVAL.

SIGNALS SHALL REST IN ALL RED WHEN THERE ARE NO VEHICLE CALL.

# TRAFFIC CONTROL LEGEND

SIGN (SINGLE SIDED)

FLAGGER

CHANNELIZER

CHANGEABLE MESSAGE BOARD

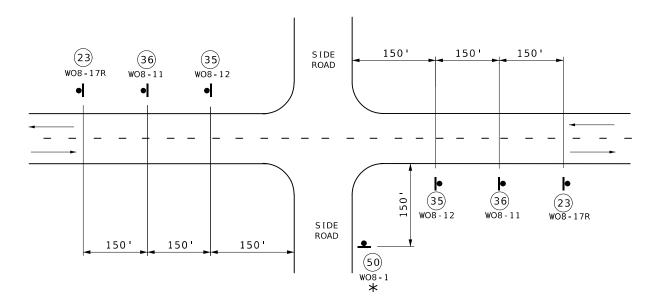


NOT TO SCALE

TRAFFIC CONTROL SHEET 8 OF 10

### 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 SIGHS 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 STATE ROUTE 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. REVISED: 5/31/24





SHOULDER DROP-OFF

> WO8 - 17R WO8 - 17p







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 9 OF 10

KARA JEAN RICHART NUMBER PE-2023037991 SONAL Kover J. Richart KARA JEAN RICHART - CIVIL 11/1/2024 7 MO SHEET NO  $\mathsf{SW}$ 13 BENTON JSR0062 CONTRACT ID. PROJECT NO. BRIDGE NO.

SSOURI HIGHWAY'S AND TRANSPORTATION
COMMISSION

MACOOT

105 WEST CAPITOL
LEFFERSON CITY, NO 65102
L-888-ASK-WOOOT (1-888-275-66346)

PROTECTIVE TRUCKS AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

IS NOT IN PROGRESS.

ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT WILL BE MADE.

- RESTRICT SIGHT DISTANCE, OR SPACING SHOWN, WHICHEVER IS GREATER.

UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCKS EQUIPPED WITH PROPER WARNING DEVICES.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE

VEHICLE-MOUNTED SIGNS SHALL BE MOUNTED IN A MANNER SUCH THAT THEY ARE NOT OBSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGENDS ON VEHICLE-MOUNTED SIGNS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK

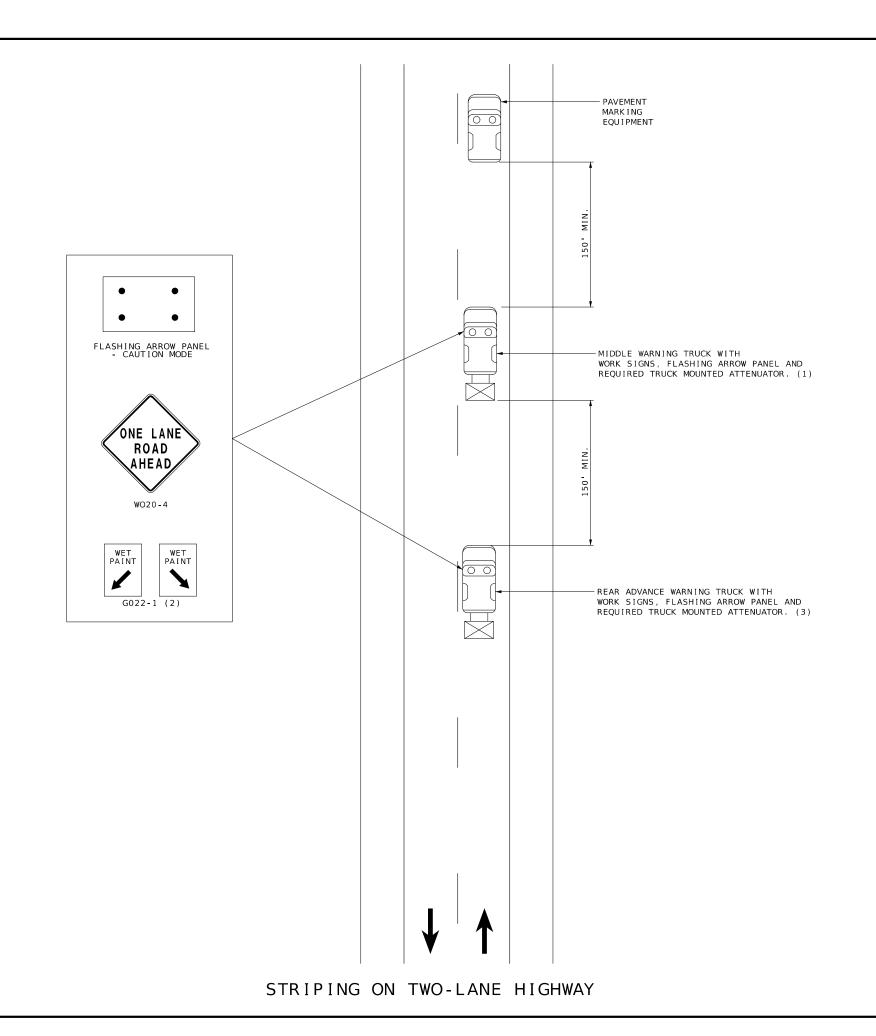
FLASHING ARROW PANELS AND SIGNS SHALL BE INCIDENTAL TO TRUCK MOUNTED

- (1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD ARE 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 WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR VERTICAL OR HORIZONTAL CURVES THAT

KARA JEAN RICHART NUMBER PE-2023037997 TESONAL ENG Kaxer J. Richart KARA JEAN RICHART - CIVIL MO-PE-2023037997 DATE PREPARED 11/1/2024 7 MO SHEET NO SW 14 BENTON JSR0062 CONTRACT ID. PROJECT NO. BRIDGE NO.

NOT TO SCALE

TRAFFIC CONTROL SHEET 10 OF 10



TYPICAL ELEVATION @ END BENTS SHOWING PROTECTIVE COATING EXTENT ON WINGS

Detailed Sept. 2024

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

Sheet No. 1 of 6

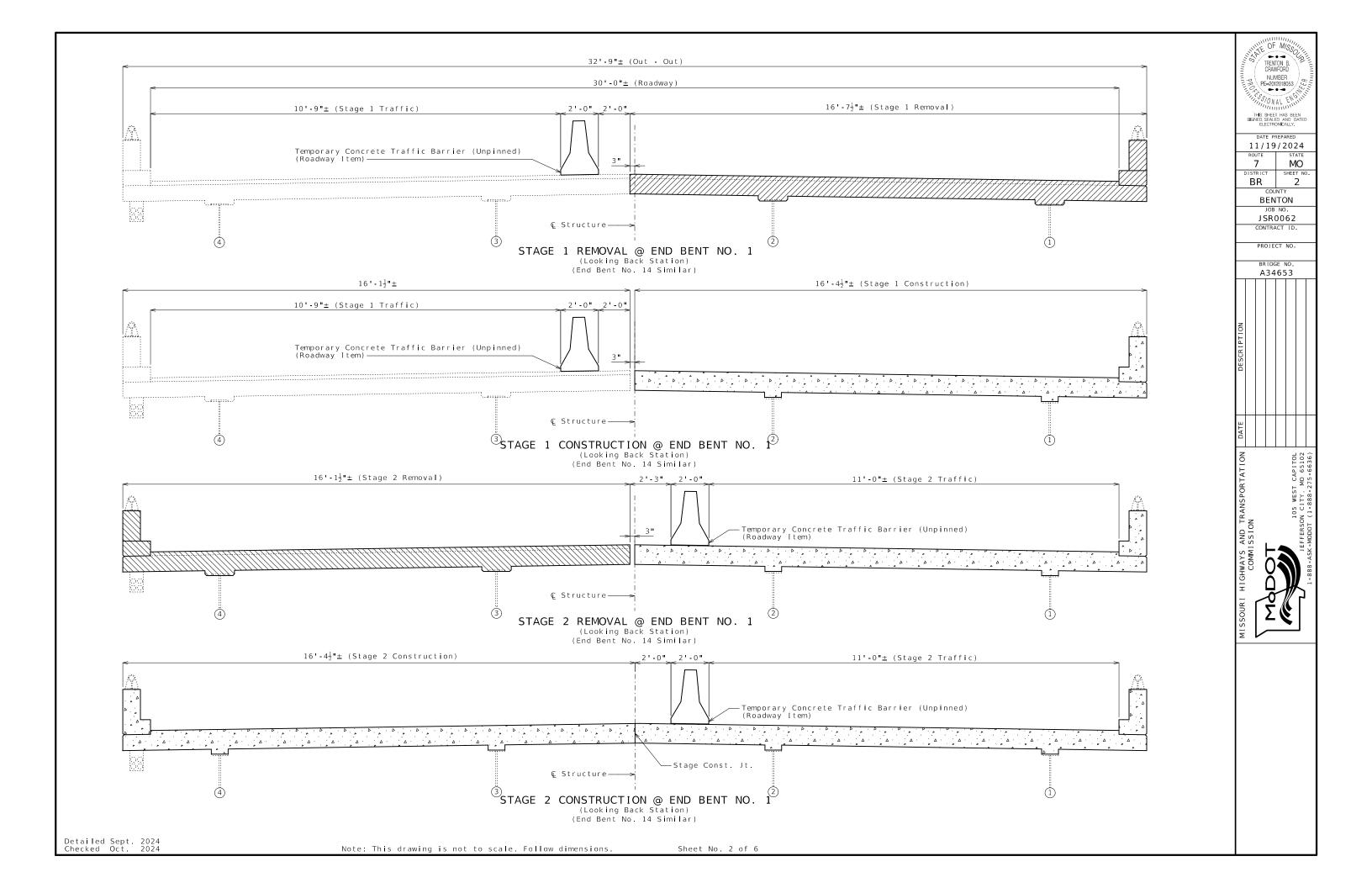
REPAIRS TO BRIDGE: ROUTE 7

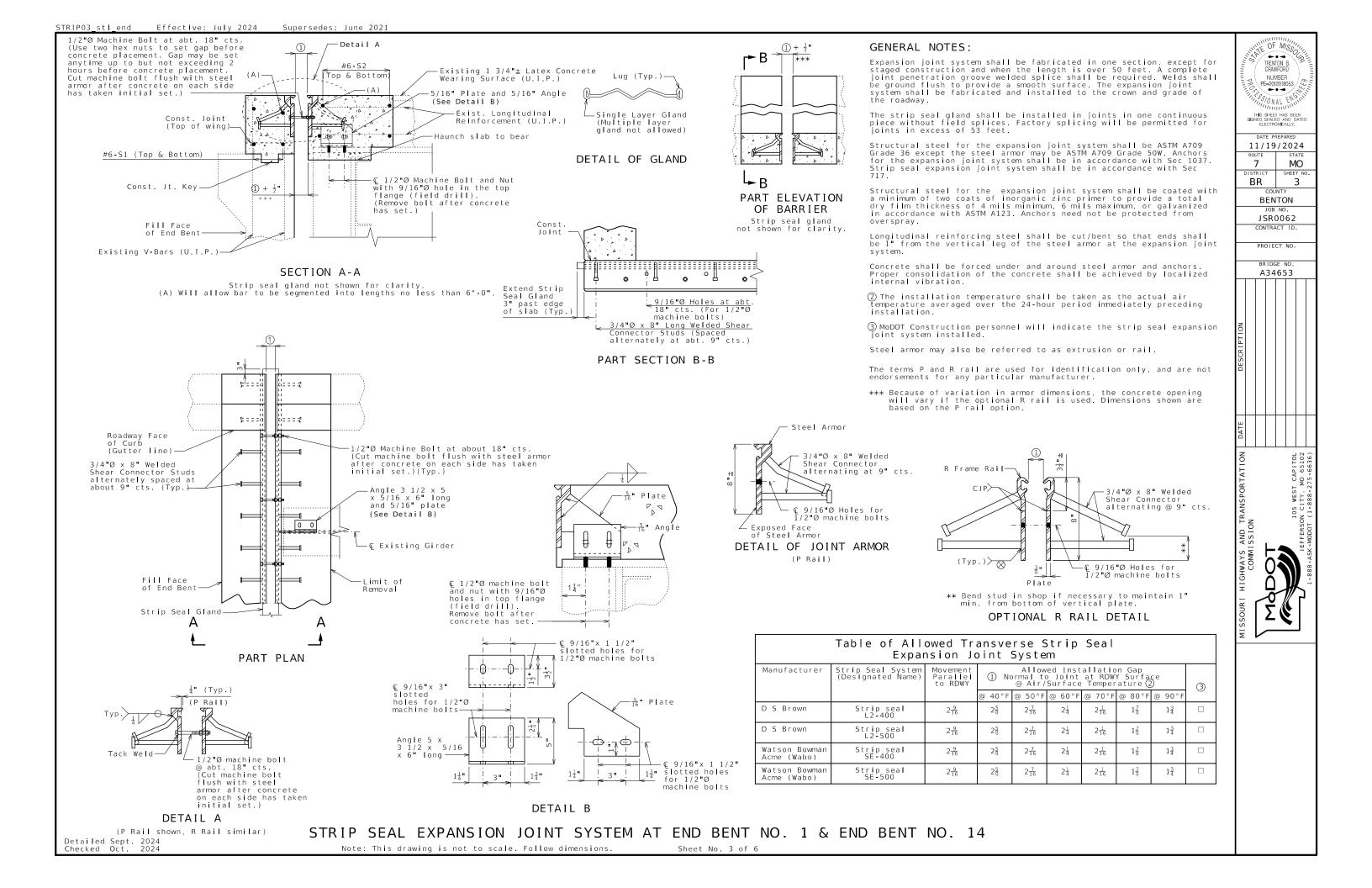
BEGINNING STATION 45+56.84± (Match Existing)

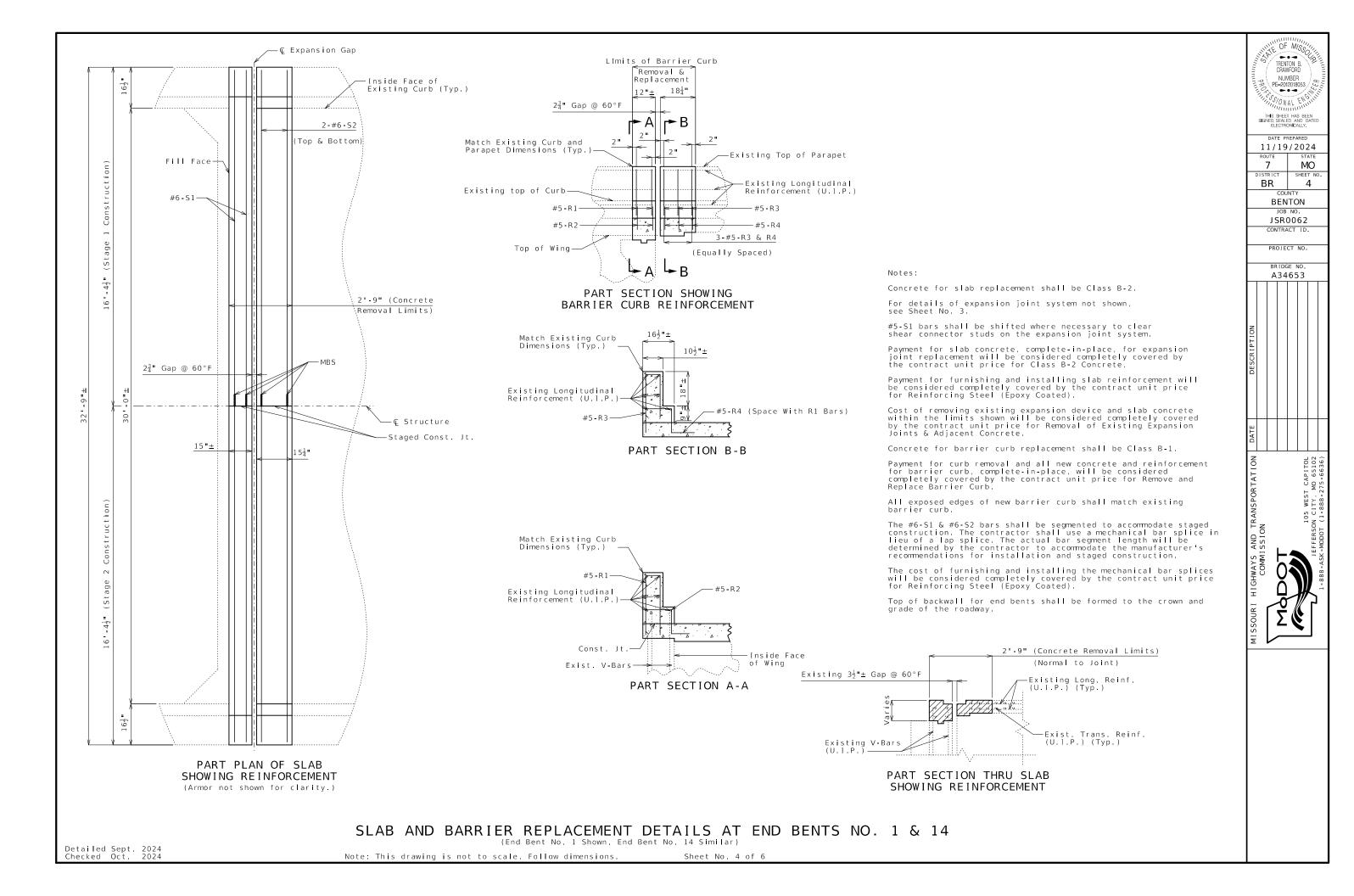
OVER TRUMAN RESERVOIR

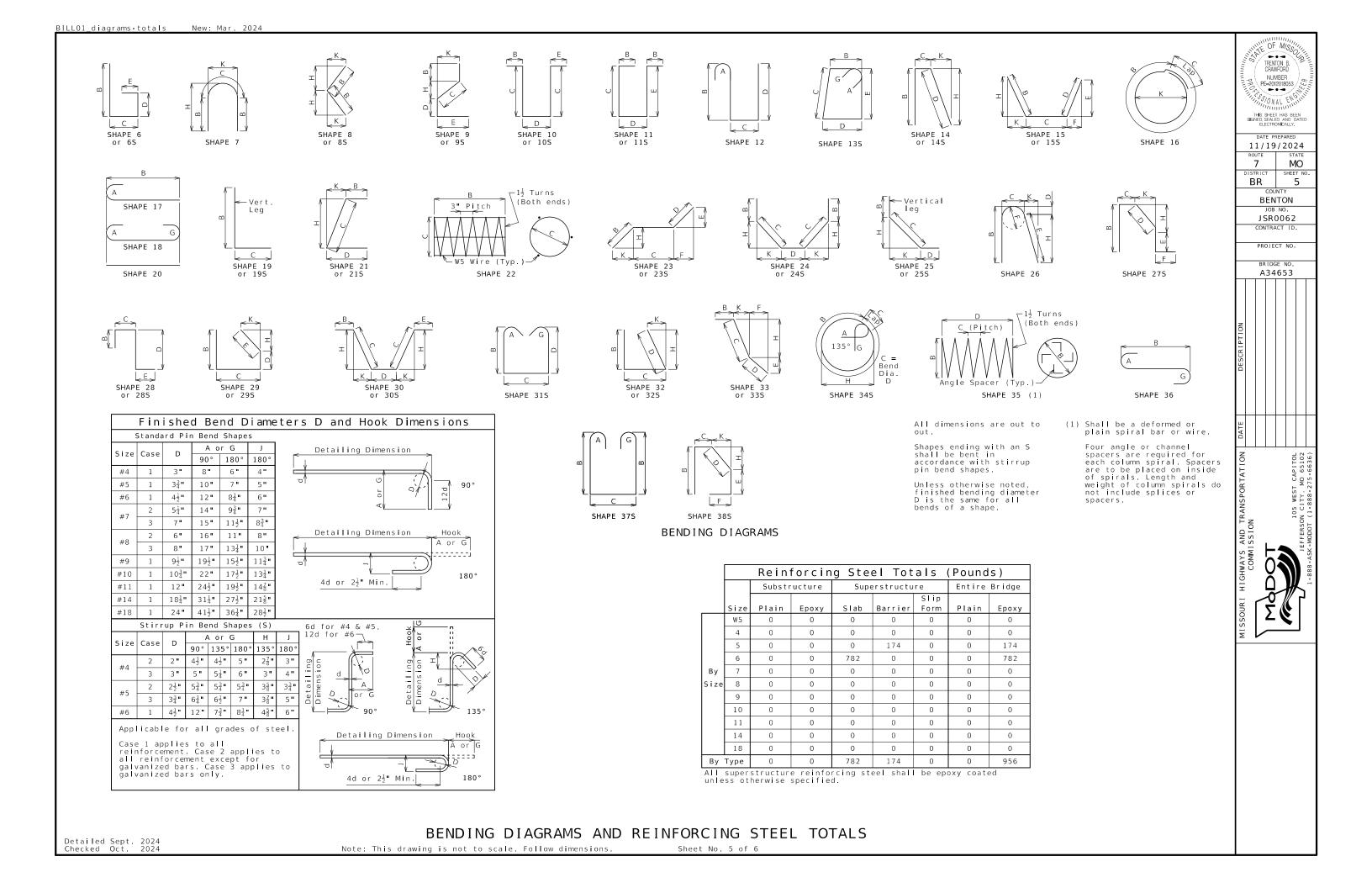
ROUTE 7 FROM ROUTE PP TO ROUTE Z

ABOUT 1.7 MILES NORTH OF ROUTE Z









BILLO2 data New: Mar. 2024

BILLO2	_uata	New: Mar. 2024																							1	minimin,
<b> </b>	I				Bill of F		orci ension			Nom.	Actual	1	_	Bill of Reinforcing Steel  Dimensions  Nom.									Actual		TRENTON B. ORAWFORD NUMBER PE-2012018053	
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Req.	Mark	Location C	SH V	/ft in.	ft in ft	in. ft	in.	ft in ft in.	ft in.	ft in	. ft in	ı. Ib		. Mark	Location	C SH	V ft	in. ft in.	ft in.	ft in. ft	in.	ft in. ft in.	ft in	ft in.	Ιb	NUMBER PE-2012018053 / E.
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																										11/19/2024
l		Barrier											$\dashv\vdash$	+-+												7 MO
		Curb & Parapet																								DISTRICT SHEET NO
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Nominal lengths are based on out to out dimensions shown in bending diagrams and are listed to the nearest inch for fabricator's use. Actual lengths are measured along centerline bar to the nearest inch. Weights are based on actual lengths.

For bending diagrams and steel reinforcing totals, see Sheet No. 5.

SH = Required shape, see bending diagrams.

BILL OF REINFORCING STEEL

V = Sets of varied bars and number of bars of each length. Bar dimensions vary in equal increments between dimensions shown on this line and the following line and the actual length dimension shown on this line and the following line vary by the specified increment.