DESIGN DESIGNATION

A.A.D.T. - 2024 = 3256 A.A.D.T. - 2044 = 4637 T = 5.7% V = 55 M.P.H.

FUNCTIONAL CLASSIFICATION- MAJOR COLLECTOR

NO NEW RIGHT OF WAY



CONVENTIONAL SYMBOLS

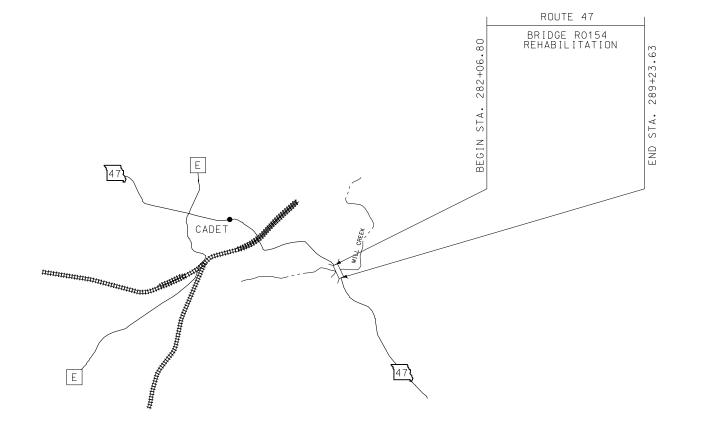
	EXISTING	NEW
BUILDINGS AND STRUCTURES GUARD RAIL GUARD CABLE CONCRETE RIGHT-OF-WAY MARKER STEEL RIGHT-OF-WAY MARKER LOCATION SURVEY MARKER UTILITIES	0000	••••• ••••
FIBER OPTICS OVERHEAD CABLE TV UNDERGROUND CABLE TV OVERHEAD TELEPHONE UNDERGROUND TELEPHONE OVERHEAD POWER UNDERGROUND POWER SANITARY SEWER STORM SEWER GAS WATER	- FOOTVUTV OT UT OE UE S S S G W SAN	-F0 -OTV -UTV -OT- -UT -OE- -VE- -S- -SS- -G- -W
MANHOLE	D SAN	€
FIRE HYDRANT	w _v	ĵ
WATER VALVE	wr4)
WATER METER	 D)
DROP INLET	Ĭ	
DITCH BLOCK	=	=
GROUND MOUNTED SIGN	SIGN	-
LIGHT POLE]
H-FRAME POWER POLE		
TELEPHONE PEDESTAL FENCE CHAIN LINK WOVEN WIRE GATE POST	——×	<u>'</u> ——
BENCHMARK	ВМ	3

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY WASHINGTON 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 NUMBEI
TITLE SHEET	1
TYPICAL SECTIONS (TS) (1 SHEET)	2
QUANTITIES (QU) (2 SHEETS)	3
PLAN PROFILE (PP)	4
TRAFFIC CONTROL SHEETS (TC)	5-12
EROSION CONTROL SHEETS (EC)	13
BRIDGE DRAWINGS (B)	1-9

12/5/5/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1	NUM PE-200 S/ON/ VIIIII VLIA 27/2024 IA K. PE IO-PE-20	EDC :	THURWAY.
12	/27	/2024	
ROUT	E	STATE	
47		MO	
DISTR	ICT	SHEET NO	٠.
l cr)	1	
l Cr	•		
	COU	INTY	
	SHI	NGTON	
WA	SHI	NGTON NO.	
WA	SHI	NGTON	
WA	SHI JOB JSS3	NGTON NO.	
WA	SHI JOB I 5 S 3 ONTRA	NGTON NO. 3540	
WA CC	SHI JOB I 5S3 ONTRA	NGTON NO. 3540 ACT ID.	

TION DATE DESCRIPTION PITOL 65302

LENGTH OF PROJECT

ROUTE 47

BEGINNING OF PROJECT STA. 282+06.80 END OF PROJECT STA. 289+23.63

APPARENT LENGTH 0.136 MILES

EQUATIONS AND EXCEPTIONS:

MISSOURI HIGHWAYS AND TRANSP COMMISSION

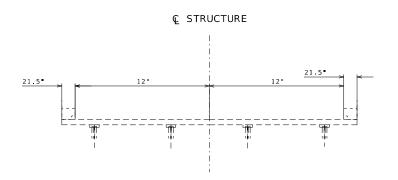
COMMISSION

105 WE

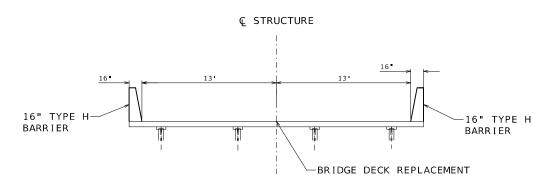
1-888-ASK-MODOT (1-888

TOTAL CORRECTIONS 0.000 FEET
NET LENGTH OF PROJECT 716.83 FEET
STATE LENGTH 0.136 MILES

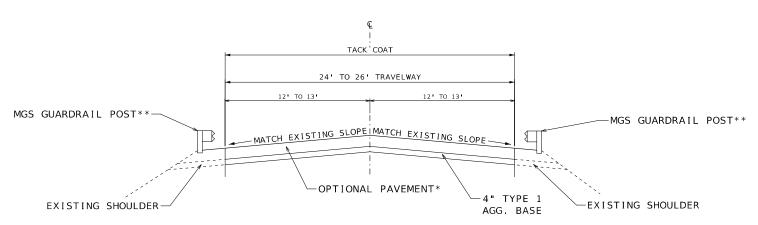
FOR INFORMATION ONLY
ESTIMATED DISTURBED ACRES 0.4 ACRES



ROUTE 47 EXIST. TYPICAL BRIDGE SECTION BRIDGE #R0514 STATION 285+08.88 TO STATION 286+91.38



ROUTE 47 PROPOSED TYPICAL BRIDGE SECTION BRIDGE R05141 STATION 285+08.88 TO STATION 286+91.38



ROUTE 47 ROADWAY TYPICAL SECTION

STA. 284+38.88 TO STA. 284+88.88 STA. 287+11.38 TO STA. 287+61.38 SEE BRIDGE DRAWING FOR DETAILS OF BRIDGE APPROACH SLAB (MINOR) STA. 284+88.88 TO STA. 285+08.88 STA. 286+91.38 TO STA. 287+11.38

PAVEMENT OPTIONS CONSIST OF:

ASPHALT: 2" BIT. PAVEMENT MIX (BP-1) PG64-22 OVER

10" BIT. PAVEMENT MIX (BASE) PG64-22

CONCRETE: 12" JPCP

NOT TO SCALE

*NOTE: PAVEMENT AND SHOULDER OPTIONS CONSIST OF: ASPHALT: 2" BIT. PAVEMENT MIX (BP-1) PG64-22 OVER 8" BIT. PAVEMENT MIX (BASE) PG64-22

CONCRETE: 8" JPCP

**NOTE: SHAPING SLOPES USED FOR BEHIND BRIDGE TRANSITION SECTION AND CET

TYPICAL SECTION SHEET 1 OF 1

12/27/2024 47 MO 2 CD WASHINGTON J5S3540 CONTRACT ID. PROJECT NO.

		REMOVAL OF IM	DDOVEME	NTC
		KLMOVAL OF TM	FINOVEME	VI 3
APPROXIMATE				
STATION	LOCATION	I TEM	QTY	REMARKS
284+68	47 LT/RT	SIGNS W/POSTS	2 EA	OBJECT MARKER
284+88	47 LT/RT	SIGNS W/POSTS	2 EA	OBJECT MARKER
285+08	47 LT/RT	SIGNS W/POSTS	2 EA	OBJECT MARKER
286+90	47 LT/RT	SIGNS W/POSTS	2 EA	OBJECT MARKER
287+12	47 LT/RT	SIGNS W/POSTS	2 EA	OBJECT MARKER
287+30	47 LT/RT	SIGNS W/POSTS	2 EA	OBJECT MARKER
284+38.88	47	EXISTING PAVEMENT	194.4 SY	INCLUDE SAWCUT
386+91.38	47	EXISTING PAVEMENT	194.4 SY	INCLUDE SAWCUT
	47	SIGNS W/POSTS	2 EA	WEIGHT RESTRICTION SIGNS
		TOTAL	1	LUMP SUM

MOBILIZATION
1 LUMP SUM

			PAVEMENT MA	ARK I NG	
			4" YELLOW	4" WHITE	
			WATERBORNE	WATERBORNE	
		LENGTH	PAINT WITH	PAINT WITH	
STATION	STATION	FEET	TYPE P BEADS	TYPE P BEADS	REMARKS
282+06.80	289+23.63	717	1434	1,434	EDGELINE AND DBL CL
		TOTAL	1,434	1,434	

		OPT I	ONAL PAVEMENT (8" JPCP OR 10" ASPHA	LT CONCRETE PAVEMENT)	
		4" TYPE 1 BASE	OPTIONAL PAVEMENT	CLASS 1 LINEAR GRADING	CONCRETE SHOULDER RUMBLE	
STA.	STA.	SY	SY	STA.	STA.	REMARKS
284+38.88	284+88.88	136.6	136.6	0.7	1.4	NORTH SIDE APPROACH PAVMENT
287+11.38	287+61.38	136.6	136.6	0.7	1.4	SOUTH SIDE APPROACH PAVMENT
	TOTALS	273	273.2	1.4	2.8	

				MGS	GUARDRAIL -	8' POST	
STATION	STATION	LOCATION	8' POST MGS GUARDRAIL LF	MGS BRIDGE APPROACH TRANS. SECT. (REG./ NO CURB) EA	TYPE A CRASHWORTHY END TERMINAL (MASH) EA	SHAPING SLOPES CL 3 STA	REMARKS
283+01.70	285+02.82	RT	112.5	1.00	1.00	0.9	NW CORNER R0514
283+13.82	285+14.94	LT	112.5	1.00	1.00	0.9	NE CORNER R0514
286+85.32	288+23.94	RT	50.0	1.00	1.00	0.9	SW CORNER R0514
286+97.44	288+98.56	LT	112.5	1.00	1.00	0.9	SE CORNER R0514
							SHAPING SLOPES FOR BRIDGE APPROACH SECTION/CET
		TOTAL	387.50	4.00	4.00	3.60	
		USE	388	4.0	4.0	4	

			PEI	RMANENT EROSI	ON CONTROL	
STATION	STATION	LOCATION	FURNISHING TYPE 2	PLACING TYPE 2	PERMANENT EROSION CONTROL	REMARKS
			ROCK BLANKET	ROCK BLANKET	GEOTEXTILE	
			CY	CY	SY	
284+89	285+31	ROUTE 47	262.0	262.0	393.0	BRIDGE R0514 NORTH SIDE
286+68	287+11	ROUTE 47	262.0	262.0	393.0	BRIDGE R0514 SOUTH SIDE
		TOTAL	524.0	524.0	786.0	
		USE	524	524	786	

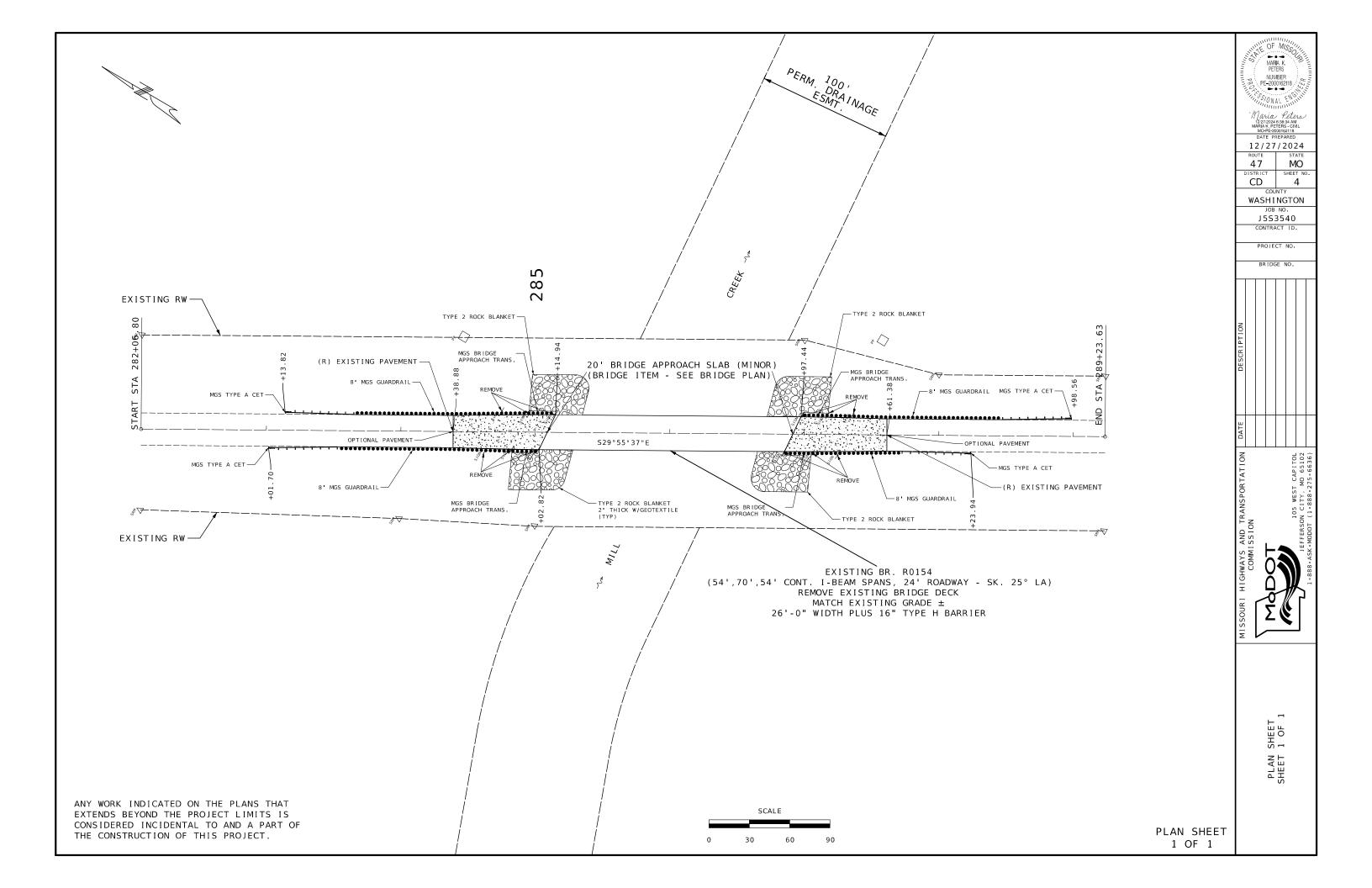
			TEMPORARY	EROSION CONTRO	L	
		LOCATION	ROCK DITCH CHECK	SEDIMENT REMOVAL	TYPE B BERM	
STATION	STATION		LF	CY	LF	REMARKS
282+06.80	285+02.82	ROUTE 47	60	3.0		BRIDGE R0514 NW CORNER
282+06.80	285+14.94	ROUTE 47	60	3.0		BRIDGE R0514 NE CORNER
286+85.44	289+23.63	ROUTE 47	12	3.0		BRIDGE R0514 SW CORNER
286+97.44	289+23.63	ROUTE 47	12	3.0		BRIDGE R0514 SE CORNER
285+50		ROUTE 47			130.0	BRIDGE R0514 NORTH
286+52		ROUTE 47			130.0	BRIDGE R0514 SOUTH
		TOTAL	144	12	260	

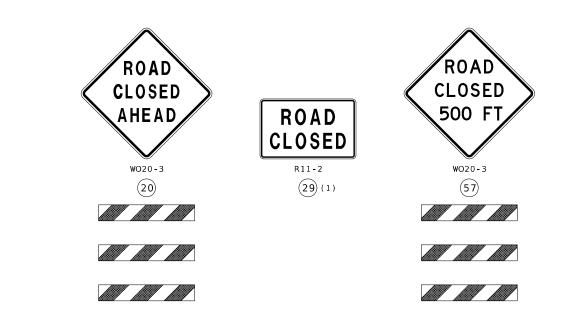
CONTRACTOR	FURNISHED	SURVEYING	AND	STAKING
	LUMP	SUM 1		

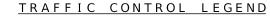
		SEED	ING - CO	OOL SEASON	MIXTURE
STA	TION	STATION	LOCATION	SEEDING	REMARKS
				COOL SEASON	
				MIXTURE	
				ACRE	
284-	-39.5	285+02.82	ROUTE 47	0.1	BRIDGE R0514 NW CORNER
384-	-39.5	285+14.94	ROUTE 47	0.1	BRIDGE R0514 NE CORNER
286+	85.44	287+61.23	ROUTE 47	0.1	BRIDGE R0514 SW CORNER
286+	97.44	287+61.23	ROUTE 47	0.1	BRIDGE R0514 SE CORNER
			TOTAL	0.4	AS NEEDED
			USE	1.0	

ID TRANSPORTATION	DATE	DESCRIPTION								THITITITIES.
NOI							DIST	RO	M.	HOLING PROTITION
				CON			7 RIC	DAI	/ UA 12/06/1 ARIA MO-	PE
			. IDC	ITRA	JOB SS:	cou H I	Т	L F	2025 K. PE PE-20	MAR PET NUM -200
				CT	NO		9	VEL.	10:05: TERS 10016:	ERS IBER 0162
105 WEST CAPITOL				ID	,	-	HEE	25	ete 12 AM 1- CIV 2118	SSC 118
EFFERSON CITY, MO 65102				•			O T N 3		ない A IL	THEER WITH
<-MODOT (1-888-275-6636)).			WWWWWWW

			TOTAL OTY	TOTALSIGN		П		T		OTY	TOTAL	SIGN				EFFECTIVE: 07-01-2024		William,
	SIZE	AREA	1 1 1	I I			SIZE	AREA	QTY	TOTAL RELOC				ITEM	TOTAL			TE OF MISSO
SIGN	IN.	SQ.FT. E	ACH SQ.FT. EACH	SQ.FT.	DESCRIPTION	SIGN	IN.	SQ.FT	EACH	SQ.FT. EACH	SQ.FT.		DESCRIPTION	NUMBER	QTY	DESCRIPTION	11.8	MARIA K
			WARNING S	I GNS					•	GUIDE SI	GNS			6122008	Ì	IMPACT ATTENUATOR 40 MPH (SAND BARRELS)		PETERS = =
WO1-1L	48X48	16.00			TURN (SYMBOL LEFT)	E05-1	36X48	12.00					GORE EXIT	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)		PE-2000162118
WO1-1R		16.00			TURN (SYMBOL RIGHT)	E05-2		12.00					EXIT OPEN	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)		38/ONAL ENGINEER
WO1-2L	48X48	16.00			CURVE (SYMBOL LEFT)	E05-2a		12.00					EXIT CLOSED	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)] "	WAL CHA
WO1 - 2R	_	16.00			CURVE (SYMBOL RIGHT)	GO20 - 1		10.00	<u> </u>				ROAD WORK NEXT XX MILES	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)	1	Jaria Peters 02.03.2025 7:32:35 AM
WO1 - 3L		16.00			REVERSE TURN (SYMBOL LEFT)	GO20 - 2		8.00					END ROAD WORK	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)	M	02/03/2025 7:32:35 AM ARIA K. PETERS - CIVIL MO-PE-2000162118
WO1 - 3R	_	16.00			REVERSE TURN (SYMBOL RIGHT)	GO20 - 4	36X18		-				PILOT CAR FOLLOW ME	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)		DATE PREPARED
WO1 - 4L WO1 - 4R		16.00			REVERSE CURVE (SYMBOL LEFT)	GO20-4a GO20-4a	18X12	8 75	-				PILOT CAR IN USE WAIT & FOLLOW PILOT CAR IN USE WAIT & FOLLOW	6122020 6122030		REPLACEMENT SAND BARREL IMPACT ATTENUATOR (RELOCATION)		2/27/2024
WO1-4K WO1-4bL		16.00			REVERSE CURVE (SYMBOL RIGHT) DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-4a							WORK ZONE (PLAQUE)	6123001		TRUCK MOUNTED ATTENUATOR (TMA)		7 MO
WO1 - 4bR	_	16.00			DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4 - 8a		3.00	2	6.00			END DETOUR	6161008	4	ADVANCED WARNING RAIL SYSTEM	DIST	
WO1 -4cL	_	16.00			TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4 - 9L		12.00		0.00			DETOUR (LEFT)	6161012		BUOYS (BOATS KEEP OUT)	l c	I
WO1-4cR	_	16.00			TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4 - 9R		12.00					DETOUR (RIGHT)	6161013		BUOYS (NO WAKE)		COUNTY
WO1-6	60X30	12.50			HORIZONTAL ARROW (SYMBOL)	MO4 - 9P		4.00					STREET NAME (PLAQUE)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)	W/	ASHINGTON
WO1-6a	72X36	18.00			HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L	48X18	6.00					DETOUR ARROW (LEFT)	6161025		CHANNELIZER (TRIM LINE)		JOB NO. J5S3540
WO1-7	60X30	12.50			DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4 - 10R	48X18	6.00					DETOUR ARROW (RIGHT)	6161030	6	TYPE III MOVEABLE BARRICADE		CONTRACT ID.
WO1-7a	72X36	18.00			DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)					REGULATORY	SIGNS			6161033		DIRECTION INDICATOR BARRICADE		
WO1-8		3.00			CHEVRON (SYMBOL)	R1-1		13.25					STOP	6161040		FLASHING ARROW PANEL		PROJECT NO.
WO1-8a		7.50			CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TRI	6 93					YIELD	6161047		TYPE III OBJECT MARKER	1	
WO3 - 1		16.00			STOP AHEAD (SYMBOL)	R1-2a		9.00					TO ONCOMING TRAFFIC (PLAQUE)	6161055		SEQUENTIAL FLASHING WARNING LIGHT	1	BRIDGE NO.
WO3 - 2		16.00			YIELD AHEAD (SYMBOL)	R1-3P		2.50					ALL WAY (PLAQUE)	6161070		TUBULAR MARKER	\vdash	
WO3 - 3 WO3 - 4		16.00			SIGNAL AHEAD (SYMBOL)	R2-1 R3-1		12.00					SPEED LIMIT XX	6161095		RADAR SPEED ADVISORY SYSTEM CHANGEABLE MESSAGE SIGN,	1	
WO3 - 4 WO3 - 5		16.00			BE PREPARED TO STOP SPEED LIMIT AHEAD	R3-1		16.00					NO RIGHT TURN (SYMBOL) NO LEFT TURN (SYMBOL)	6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED		
WO3 - 5 WO4 - 1 L		16.00			MERGE (SYMBOL FROM LEFT)	R3-2	36X36						NO LEFT TORN (STMBOL) NO TURNS	0101030	2*	CHANGEABLE MESSAGE SIGN WITHOUT COMM.	1	
WO4 - 1L WO4 - 1R		16.00			MERGE (SYMBOL FROM RIGHT)	R3-4		16.00		+ +			NO U-TURN (SYMBOL)	61610984		INTERFACE- CONTRACTOR FURNISHED/RETAINED		
WO4-1R WO4-1aL		16.00			MERGE (LEFT)	R3 - 7L	30X30						LEFT LANE MUST TURN LEFT			CHANGEABLE MESSAGE SIGN WITH COMM.	[일]	
WO4 - 1 aR		16.00			MERGE (RIGHT)	R3 - 7R		6.25					RIGHT LANE MUST TURN RIGHT	6161099		INTERFACE - CONTRACTOR FURNISHED/RETAINED	IP	
WO5 - 1		16.00			ROAD/BRIDGE/RAMP NARROWS	R4-1		12.00					DO NOT PASS	61620004		WORK ZONE TRAFFIC SIGNAL SYSTEM	1 %	
WO5 - 3	_	16.00			ONE LANE BRIDGE	R4-2		12.00					PASS WITH CARE	6162002		TEMPORARY LONG-TERM RUMBLE STRIPS	1 36	
WO5 - 5	48X48	16.00			NARROW LANES	R4-7a	36X48	12.00					KEEP RIGHT (HORIZONTAL ARROW)			TEMPORARY TRAFFIC BARRIER]~	
WO6 - 1	48X48	16.00			DIVIDED HIGHWAY (SYMBOL)	R4-8a	36X48	12.00					KEEP LEFT (HORIZONTAL ARROW)	61736000		CONTRACTOR FURNISHED/RETAINED		
WO6 - 2	48X48	16.00			DIVIDED HIGHWAY END (SYMBOL)	R5-1	30X30						DO NOT ENTER			TEMPORARY TRAFFIC BARRIER		
WO6 - 3		16.00			TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24						WRONG WAY	6173602E		CONTRACTOR FURNISHED/COMMISSION RETAINED	111	
WO7-3a		5.00			NEXT XX MILES (PLAQUE)	R6-1L	54X18						ONE WAY ARROW (LEFT)	61740004		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION		
WO8 - 1		16.00			BUMP	R6-1R		6.75					ONE WAY ARROW (RIGHT)	61750104		RELOCATING TEMPORARY TRAFFIC BARRIER	- ¥	
WO8 - 2		16.00			DIP	R6-2L	24X30						ONE WAY (LEFT)	6176000		TEMPORARY TRAFFIC BARRIER		
WO8 - 3 WO8 - 4	_	16.00			PAVEMENT ENDS	R6-2R R9-9	24X30	5.00					ONE WAY (RIGHT)	6176000E		COMMISSION FURNISHED/RETAINED	Z	7.7
WO8 - 4 WO8 - 5		16.00			SOFT SHOULDER SLIPPERY WHEN WET (SYMBOL)	K9-9	24812	2.00					SIDEWALK CLOSED SIDEWALK CLOSED AHEAD,	6177000E		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED	Ō	TOL 5102
WO8 - 6		16.00			TRUCK CROSSING	H _{R9-11L}	24X18	3.00					(ARROW LEFT) CROSS HERE	6208064		TEMPORARY RAISED PAVEMENT MARKER	 ∀	T CAPI MO 65.
WO8 - 6 c		16.00			TRUCK ENTRANCE	11	2 1/120	3.00					SIDEWALK CLOSED AHEAD,	9029400		TEMPORARY TRAFFIC SIGNALS	 	T C MC
WO8 - 7		9.00			LOOSE GRAVEL	_{R9-11R}	24X18	3.00					(ARROW RIGHT) CROSS HERE	9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING	18	/ES.
WO8 - 7 a		9.00			FRESH OIL / LOOSE GRAVEL	R10-6		6.00					STOP HERE ON RED (45^ ARROW)				1§	05 WES- CITY, 1-888-
WO8 - 9	48X48	16.00			LOW SHOULDER	R11-2	48X30	10.00	2	20.00		29	ROAD CLOSED				12,	10 SON 1
WO8 - 11	48X48	16.00			UNEVEN LANES				1	12.50		55B	ROAD CLOSED 6 MILES AHEAD] [6	RSC
WO8 - 12	48X48	16.00			NO CENTER LINE	R11-3a	60X30	12.50					LOCAL TRAFFIC ONLY				ANI	FFE
WO8 - 15					GROOVED PAVEMENT	11		12.50					ROAD CLOSED TO THRU TRAFFIC				SIN	- - ×
WO8 - 15P					MOTORCYCLE (PLAQUE)	CONST - 3A						_	FINE SIGN				A S	
WO8 - 17L					SHOULDER DROP-OFF (SYMBOL LEFT)	CONST-3X	56X12	4.67		1.00511.4355			SPEEDING/PASSING (PLATE)	L			J ≧Ö	
WO8 - 17R					SHOULDER DROP-OFF (SYMBOL RIGHT)	CONCT	10725	12.00	_	1I SCELLANEOU:	5 5 1 GN		DOINT OF DRESENCE				19	_ \ 1
WO8 - 17P		9.62			SHOULDER DROP-OFF (PLAQUE)	CONST 5						_	POINT OF PRESENCE POINT OF PRESENCE				1 =	
W10-1 WO12-1	24X24				RAILROAD CROSSING DOUBLE DOWN ARROW (SYMBOL)	CONST-5				 			WORK ZONE NO PHONE ZONE				I H	
		16.00			LOW CLEARANCE (SYMBOL)	11		16.00		32 00			ROAD CLOSED 500 FT				190	\ (
W012-2 W012-2x					LOW CLEARANCE (STIMBOL)	SPECIAL							DETOUR SIGN				. 55	_ 🕶
WO12-2A					OVERHEAD LOW CLEARANCE (FEET AND INCHES)	11		19.50		78.00			DETOUR SIGN				Σ	<u> </u>
WO12-4					LOW CLEARANCE XX FT XX IN XX MILES AHEAD	41		19.50		78.00			DETOUR SIGN					
WO12-5					WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD	SPECIAL				39.00			DETOUR SIGN				1	
	30X30				ADVISORY SPEED (PLAQUE)	SPECIAL							DETOUR SIGN				1	
	30X24				XXX FEET (PLAQUE)	SPECIAL							DETOUR SIGN				1	
WO16-3	30X24	5.00			X MILE (PLAQUE)	SPECIAL	36X78	19.50	1	19.50			DETOUR SIGN					
		16.00			ROAD/BRIDGE/RAMP WORK AHEAD	SPECIAL				19.50			DETOUR SIGN				1	
		16.00			DETOUR AHEAD	SPECIAL				78.00			DETOUR SIGN	616	00 0	1 TEMPORARY TRAFFIC CONTROL	1	
WO20-3			2 32.00		ROAD CLOSED AHEAD	SPECIAL				78.00			DETOUR SIGN	010-	99. ∪		1	
		16.00	2 32.00	7	ONE LANE ROAD AHEAD	SPECIAL							DETOUR SIGN			LUMP SUM 1	1	
WO20-5					RIGHT/CENTER/LEFT LANES CLOSED AHEAD	SPECIAL				39.00			DETOUR SIGN				1	
WO20-5a WO20-6a					2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD RIGHT/CENTER/LEFT LANE CLOSED	SPECIAL SPECIAL				19.50			DETOUR SIGN DETOUR SIGN				1	
WO20-6a WO20-7a					FLAGGER (SYMBOL)	SPECIAL				64.00			NORTH 47 CLOSED 10 MILES AHEAD				1	
WO20-7a WO21-2					FRESH OIL	SPECIAL				32.00			SOUTH 47 CLOSED 10 MILES AHEAD				1	
WO21-2 WO21-5					SHOULDER WORK / SHOULDER WORK AHEAD	SPECIAL				108.00			NORTH 47 CLOSED 10 MI. N. OF 67				1	
		16.00			BLASTING ZONE AHEAD	616-10				TOTAL					٠	NANAA D.V. O.E. O.V.A.V.T.T.T.T.T.T.T.T.T.T.T.T.T.T.T.T.T		
WO22-2					TURN OFF 2-WAY RADIO AND PHONE	CONSTR		N SIGN	NS	1812					SU	MMARY OF QUANTITIES	1	
WO22-3					END BLASTING ZONE	616-10					TOTAL	SEE IS	Ps			SHEET 2 OF 2	1	
GO22-1	21X15	2.19	4 8.76	63	WET PAINT (ARROW PIVOTS)	RELOCA	TED S	IGNS			0	QUANT I	TIES FOR INFORMATION ONLY				1	
		-											S NOT INCLUDED IN TEMPORARY TRA				1	
												** NO	DIRECT PAY FOR RELOCATION OF TE	IMPURARY	CONTROL	DEVICES		







BARRICADE

CHANGEABLE MESSAGE BOARD

SIGN (SINGLE SIDED)

	DESCRIPTION					
===:	DATE					
===:	DRTATION			T CAPITOL	MO 65102	

PL,

CONTROL EET 1 OF 8

AFFIC SHE

MARIA K.
PETERS
NUMBER
PE-2000162118

Maria Peters 12/27/2024 6:39:25 AM MARIA K. PETERS - CIVIL MO-PE-2000162118 DATE PREPARED

12/27/2024

WASHINGTON

J5S3540 CONTRACT ID. PROJECT NO.

BRIDGE NO.

MO

SHEET NO. 5

47

CD

PE-200010L

		WORK AREA	В	S OR SA	S OR SB	
	3 TYPE II BARRICADES—			(57)	20	
ROUTE_4	7		29	<u></u>		
20	[• (57)		Ţ	−3 TYPE Ⅲ BARRICADES		

SPEED	SIGN SPAC	CING (FT.)	RECOMMENDED				
PERMANENT			BUFFER				
POSTED	UNDIVIDED	DIVIDED	LENGTH (FT.)				
(MPH)	(S)	(S)	(B)				
0-35	200	200	250				
40 - 45	350	500	360				
50-55	500	1000	495				
		SA - 1000					
60-70	1000	SB - 1500	730				
		SC - 2640					

S OR SB

S OR SA

	SIGN						
	HE I GHT						
TYPE OF ROADWAY	(MINIMUM)						
URBAN	1' PORTABLE						
UNBAIN	7' POST						
RUBAL DIVIDED	1' PORTABLE						
RORAL DIVIDED	7' POST						
RURAL UNDIVIDED	1' PORTABLE						
KOKAL UNDIVIDED	5' POST						

(1) USE LIGHTWEIGHT ROAD CLOSED SIGN PLACED ON THE CENTER BARRICADE LOCATED AT THE FULL CLOSURE OR PLACE RIGID SIGN 7 TO 10 FEET BEHIND THE BARRICADES AT THE SIGN HEIGHT APPROPRIATE FOR THE ROADWAY TYPE.

ONE BARRICADE SHOULD BE REQUIRED TO COMPLETELY CLOSE EACH 8-FEET OF PAVEMENT. PAVED SHOULDERS SHALL BE INCLUDED IN THE AREA TO BE CLOSED.

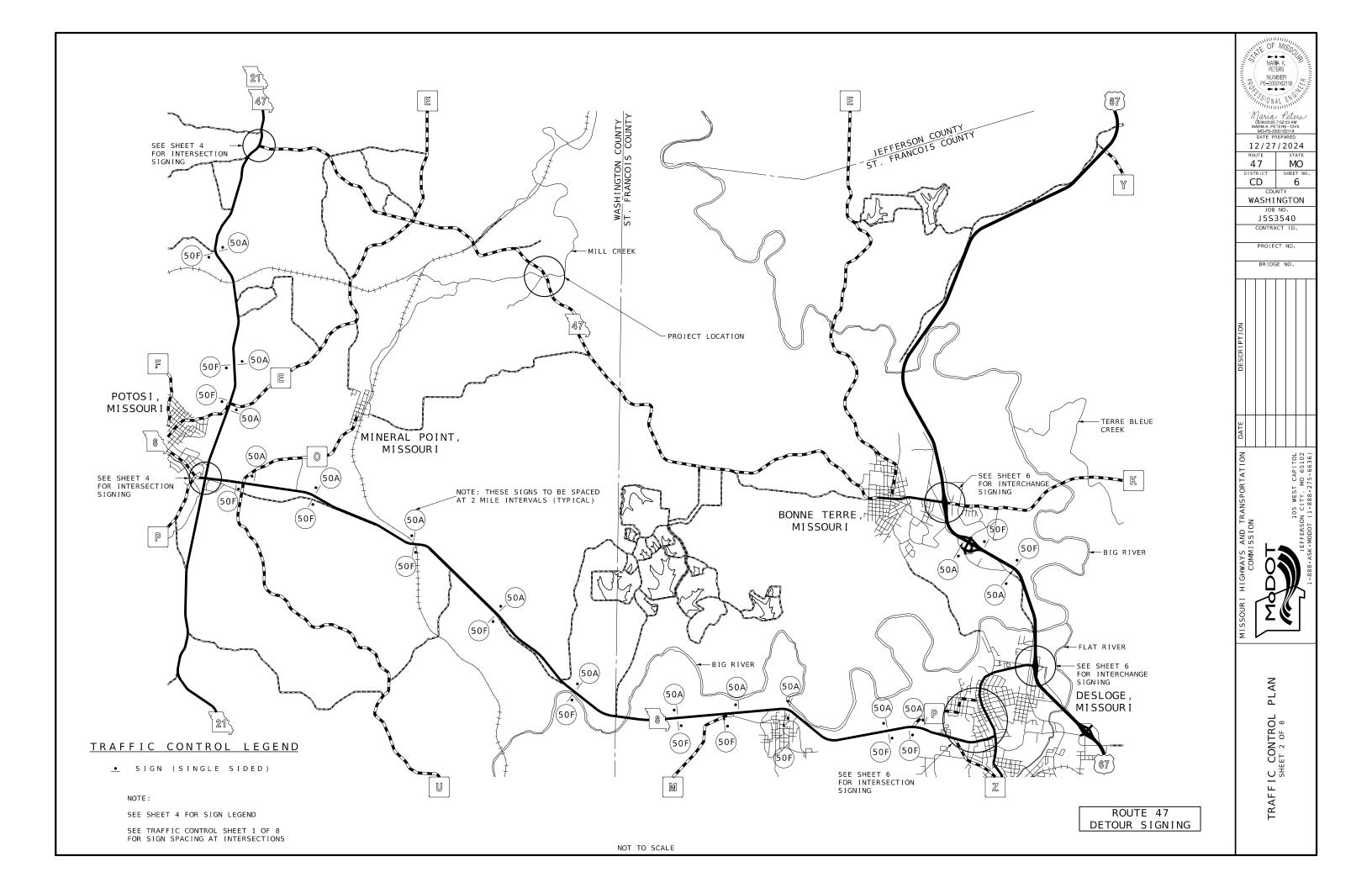
THE LOCATION OF THE CHANGEABLE MESSAGE BOARDS WILL BE APPROVED BY THE ENGINEER.

SIGN SPACING MAY BE ADJUSTED TO MEET FIELD CONDITIONS.

ANY EXISTING SIGNS THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

FOR URBAN LOW SPEED, MIN. SIGN SPACEING IS 100 FEET.

ROAD CLOSURE





DETOUR

NORTH

M3 - 1









(50B)

NORTH

M3 - 1

M1 **-** 5

DETOUR DETOUR MO4 - 8 MO4 - 8

NORTH M3 - 1









NORTH

M3 - 1

47

M1 - 5

4

(50D)

NORTH



DETOUR

MO4 - 8







MO4 - 8 NORTH









DETOUR

NORTH

M3 - 1





DETOUR

MO4 - 8

SOUTH

M3 - 3



















DETOUR





DETOUR

SOUTH

M3 - 3

(50K)











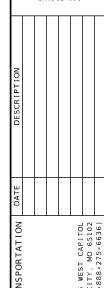




DETOUR

SOUTH





12/27/2024

WASHINGTON J5S3540

PROJECT NO.

MO

7

47

CD

END DETOUR

ROAD CLOSED 6 MILES AHEAD LOCAL TRAFFIC ONLY

MO4 **-** 8 a (52)

R11-3a (55B)



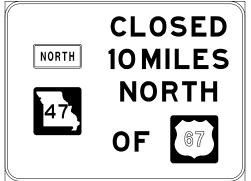
(56A)

SPECIAL



CLOSED 6 MILES **AHEAD**

SPECIAL (56B)



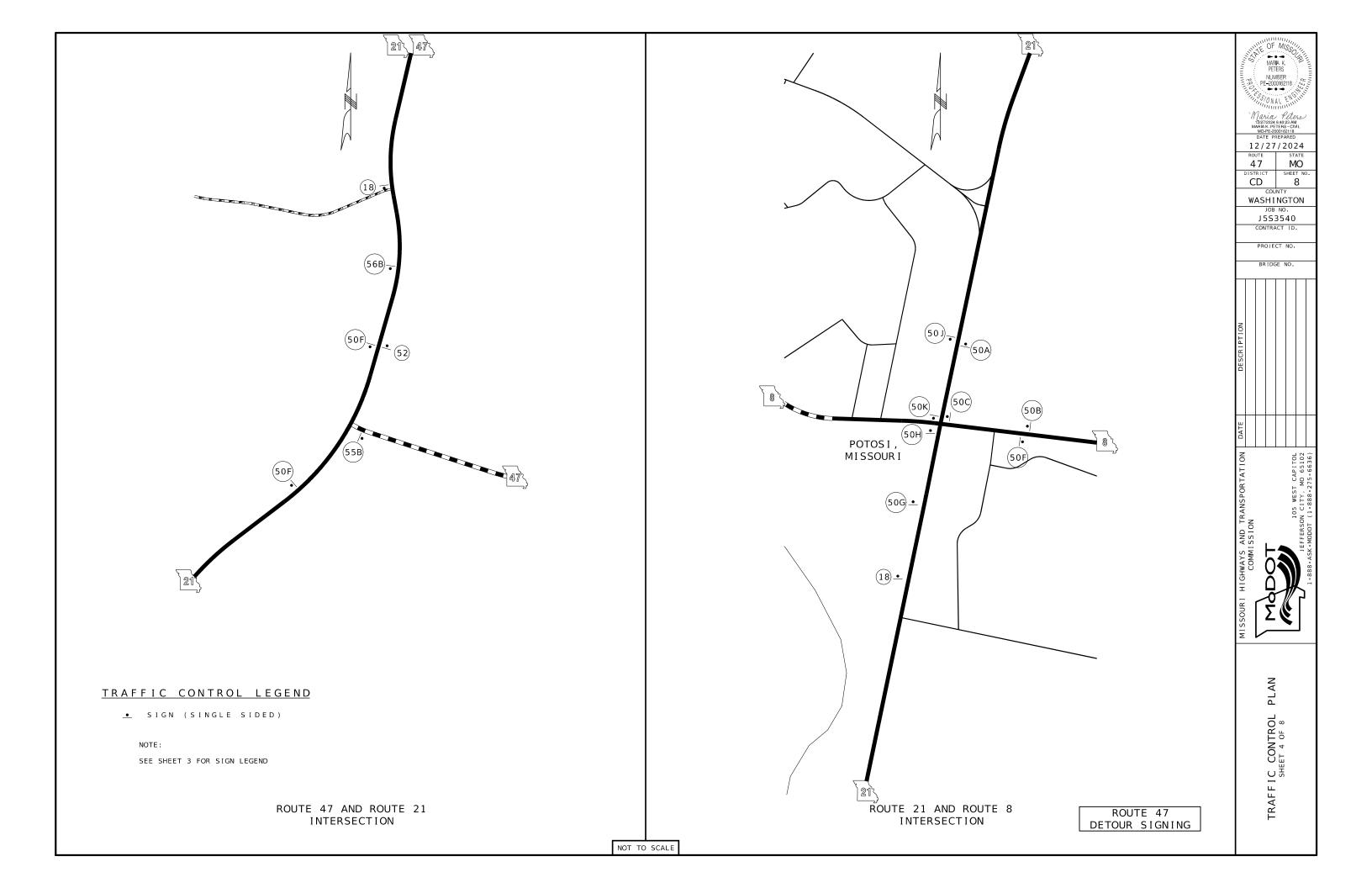
SPECIAL

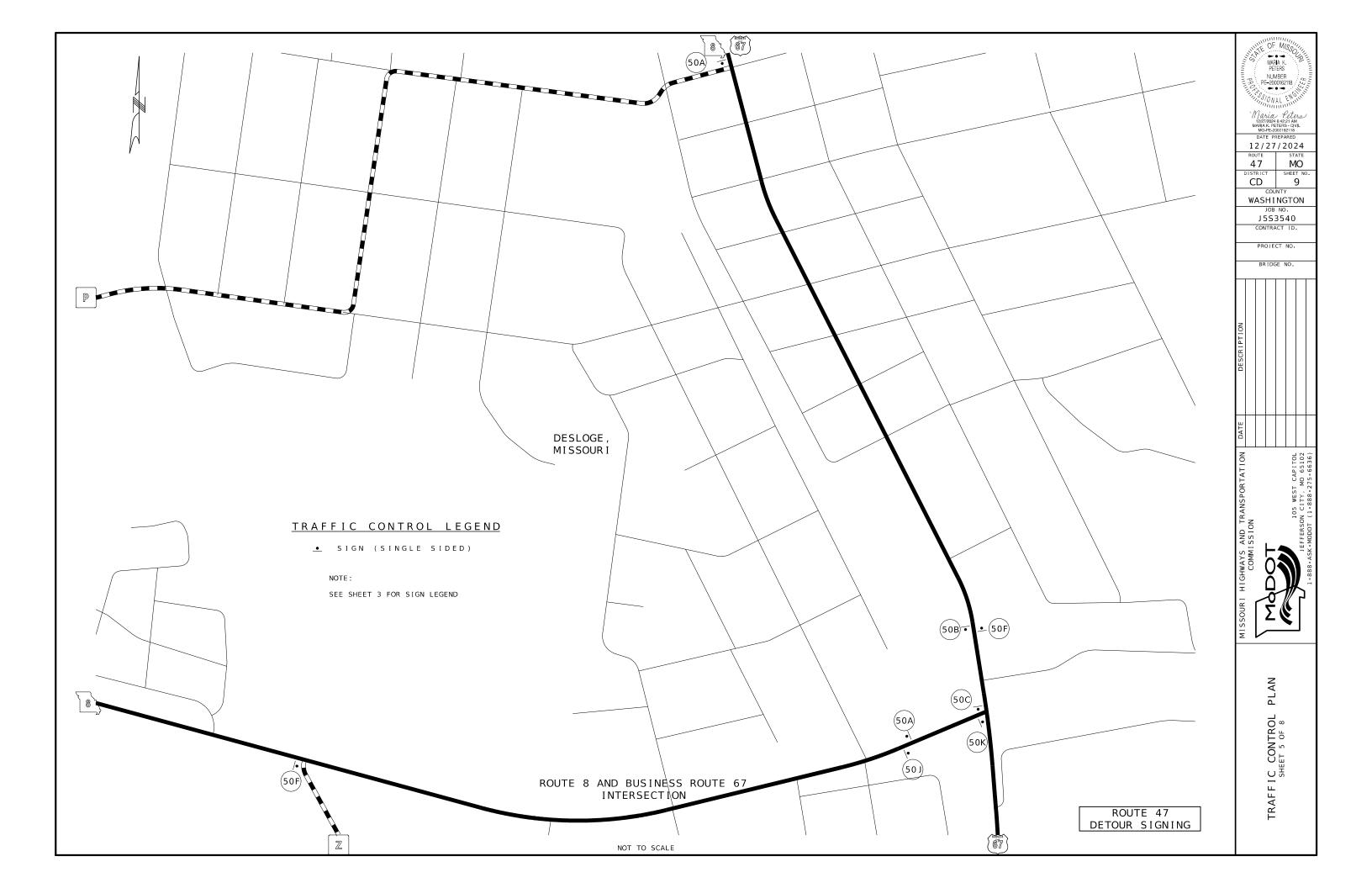
SEE SHEET 12 FOR SIGN (56A), SIGN (56B), AND SIGN (56O) DIMENSIONS.

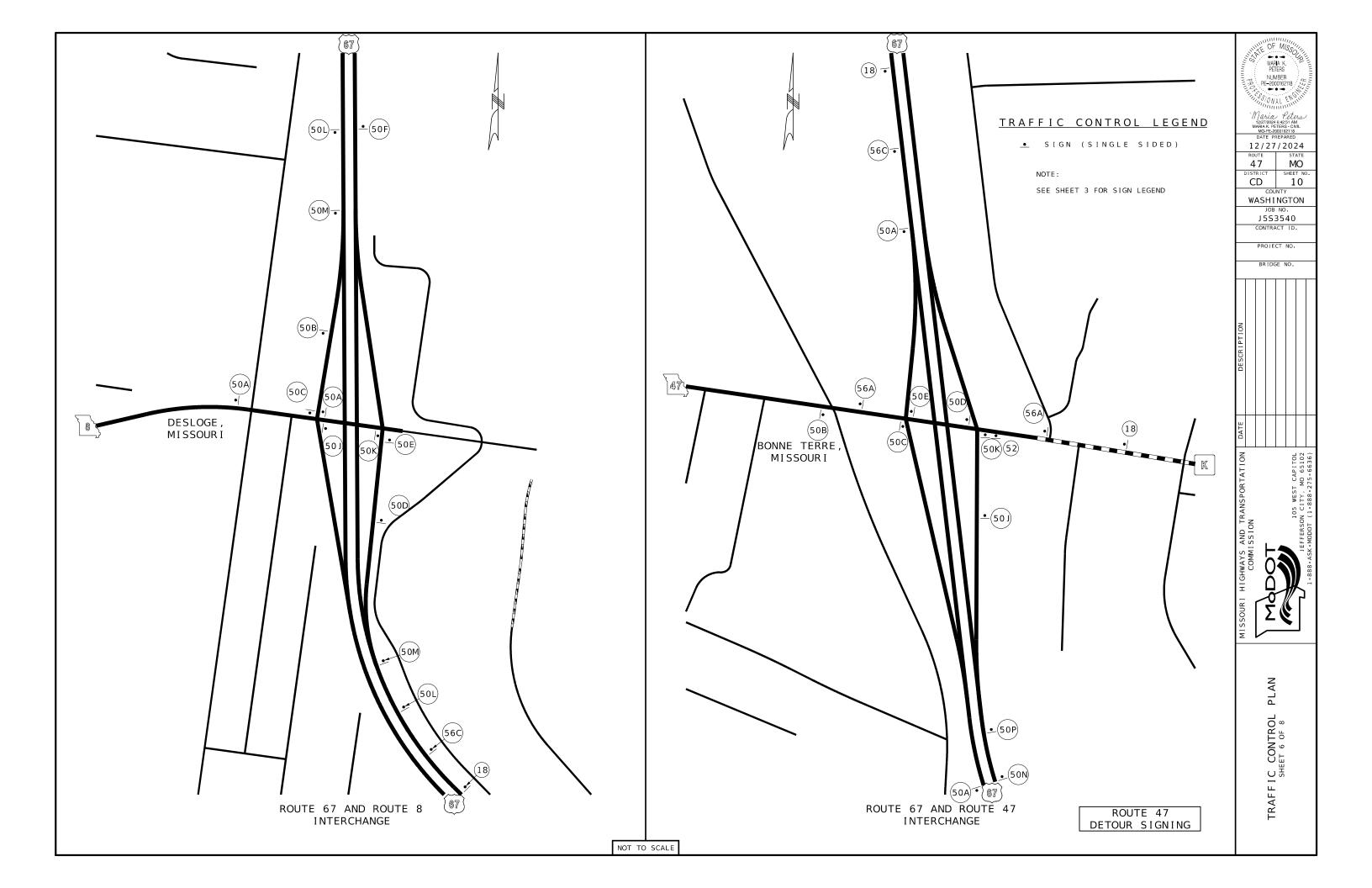
(56C)

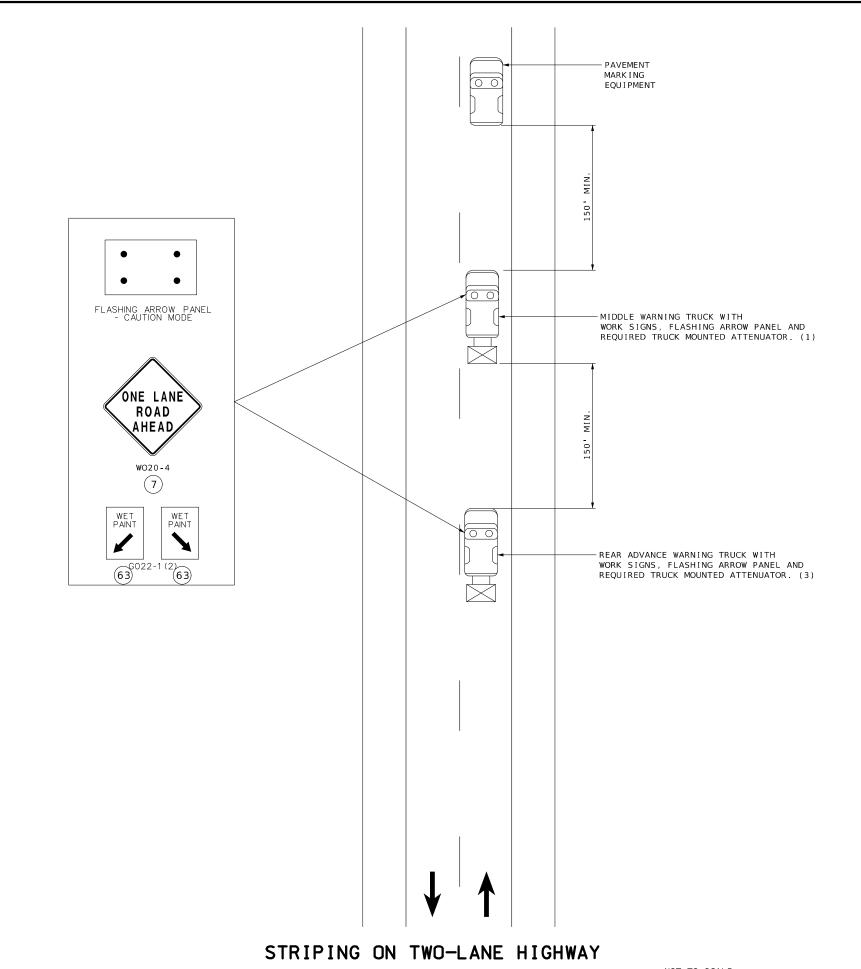
ROUTE 47 DETOUR SIGNING

PLAN TRAFFIC CONTROL SHEET 3 OF 8









NOTES:

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

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

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

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 IS NOT IN PROGRESS.

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

OF M/SS MAPIA K PETERS NUMBER PE-2000162118

12/27/2024 6:43:26 AM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED

12/27/2024

ROUTE STATE
47 MO

DISTRICT SHEET NO.
CD 11

WASHINGTON

J5S3540 CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE DESCRIPTION

MADOT

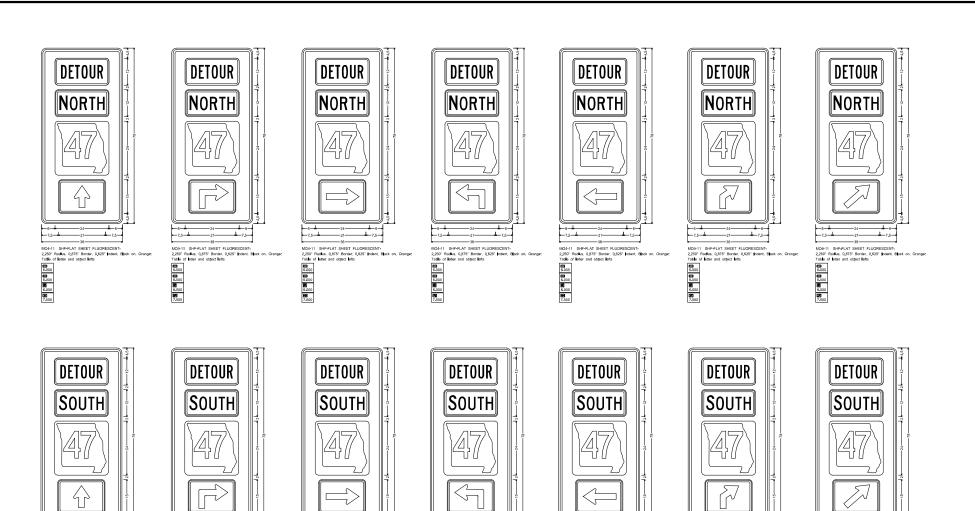
105 WEST CAPIT

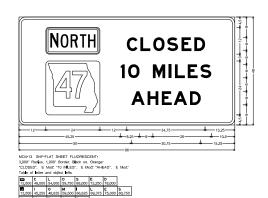
THE COMMISSION

THE COM

TRAFFIC CONTROL PLAI

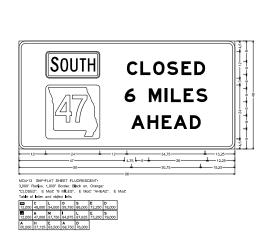
STRIPING OPERATION

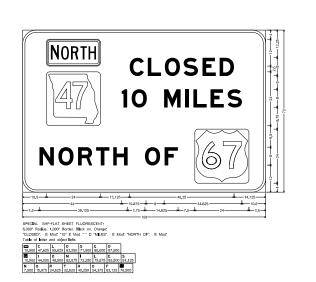




7.5 - 21 - 7.5 -

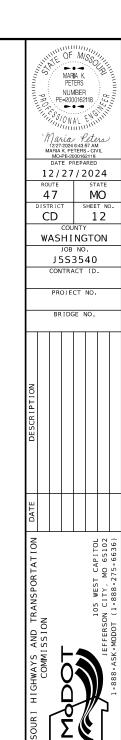
5 1 21 1 7.5





NO-11 SPERFLY SHEET FLUORESCENT?
2.200° Reaut, CM7° Bode Co.020° board, Black on, Crange.
Talk of Nets and object lefts.

7.5 1 7.5



TRAFFIC CONTROL PLAN SHEET 8 OF 8

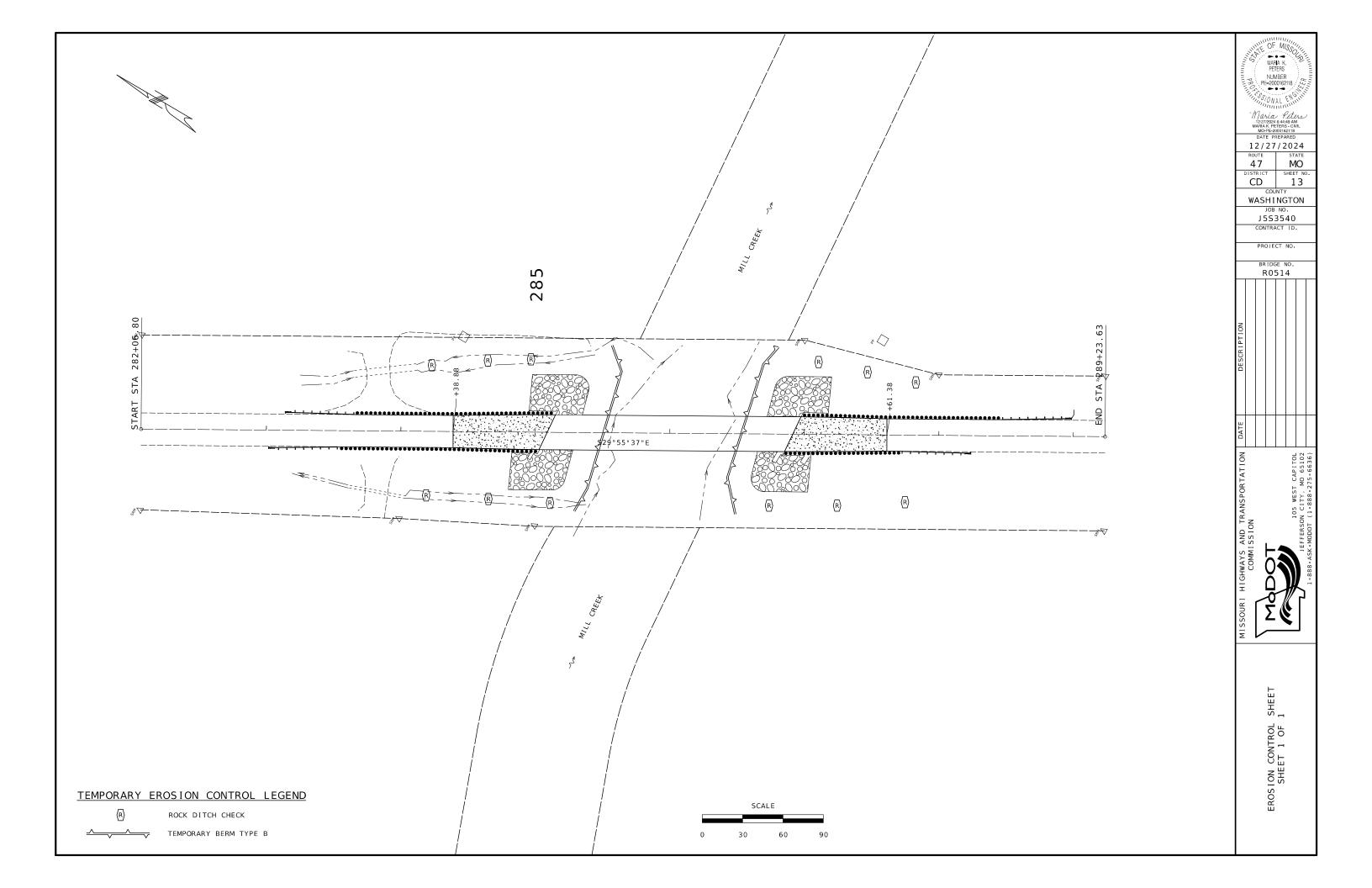


Table Showing S2 Bar Lengths Int. Bent No. 2 Int. Bent No. 3 Span 2 Span 2 Span 3 13'-0" 13'-3" 13'-3" 13'-0"

	Lap Length Splices **
Bar Size	Splice Length
4	2'-7"
5	3'-3"
6	3'-10"
7	4'-11"

** Unless otherwise shown

General Notes:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications Seismic Performance Category A

Design Loading:

HS15-44 (1961) (Existing) HS20-44 (New Construction) 35 lb/sf Future Wearing Surface Earth - 120 lb/cf, Equivalent Fluid Pressure 45 lb/cf Fatigue Stress - Case III

Design Unit Stresses:

Class B-1 Concrete (Barrier) f'c = 4,000 psiClass B-2 Concrete (Superstructure f'c = 4,000 psi except Barrier) Reinforcing Steel (ATSM A615 Grade 60) fy = 60,000 psi

Joint Filler:

All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler,

Reinforcing Steel:

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

Miscellaneous:

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

Bars bonded in existing concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, existing bars shall extend into new concrete at least 40 diameters for plain bars and 30 diameters for deformed bars, unless otherwise noted.

Roadway surfacing adjacent to bridge ends shall match new bridge

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

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

The area exposed by the removal of concrete and not covered with new concrete shall be coated with an approved qualified special mortar in accordance with Sec 704.

Rubblized concrete from the existing bridge deck that qualifies as clean fill may be placed on spill slopes at end bents above ordinary high water line (Roadway item).

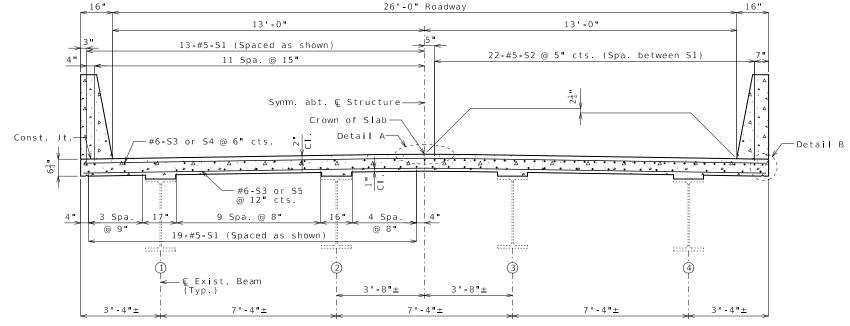
For adjusted girder deflection due to the weight of the new deck and barriers, see Bridge Electronic Deliverables.

Bridge deck suface may be finished with a vibratory screed.

Traffic Handling:

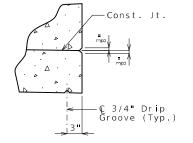
Structure to be closed during construction. See Roadway Plans for traffic control.

U.I.P., REDECK AND MAKE COMPOSITE EXISTING (54'- 70'- 54') CONTINUOUS WIDE FLANGE BEAM SPANS (SKEW: 25° L.A.)

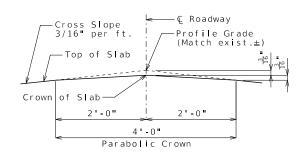


HALF SECTION NEAR MIDSPAN & END BENTS

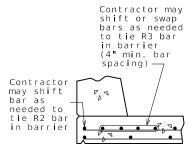
TYPICAL SECTION THRU SLAB



DETAIL B



DETAIL A



OPTIONAL SHIFTING TOP BARS AT BARRIER

Estimated Quantities		
I t em		Total
Removal of Existing Bridge Deck	sq. foot	4,980
Approach Slab (Minor)	sq. yard	127
Slab on Steel	sq. yard	574
Type H Barrier	linear foot	361
Protective Coating - Concrete Bents and Piers (Epoxy)	lump sum	1
Strengthening Existing Beams	lump sum	1
Cleaning & Coating Existing Bearings	each	4
Slab Drain	each	28
Non-Destructive Testing	linear foot	25

Cost of any required excavation for bridge will be considered completely covered by the contract unit price for other items

HALF SECTION NEAR INT. BENT

Estimated Quantities for	Slab on St	eel
Item		Total
Class B-2 Concrete	cu. yard	108
Reinforcing Steel (Epoxy Coated)	pound	38,030

The table of Estimated Quantities for Slab on Steel represents the quantities used by the State in preparing the cost estimate for concrete slabs. The area of the concrete slab will be measured to the nearest square yard longitudinally from end of slab to end of slab and transversely from out to out of bridge slab (or with the horizontal dimensions as shown on the plan of slab). Payment for stay-in-place corrugated steel forms, conventional forms, all concrete and epoxy coated reinforcing steel will be considered completely covered by the contract unit price for the slab. Variations may be encountered in the estimated quantities but the variations cannot be used for an adjustment in the contract unit price.

Method of forming the slab shall be in accordance with Sec 703. All hardware for forming the slab to be left in place as a permanent part of the structure shall be coated in accordance with ASTM A123 or ASTM B633 with a thickness Class SC 4 and a finish Type I, II or III.

Slab shall be cast-in-place with conventional forming or stay-in-place corrugated steel forms. Precast prestressed panels will not be permitted.

For Optional Stay-In-Place Form Details, see Sheet No. 2.

REPAIRS TO BRIDGE: ROUTE 47 OVER MILL CREEK

ROUTE 47 FROM RTE. E TO RTE. 67 ABOUT 2.8 MILES EAST OF RTE. E BEGINNING STATION 285+09.5± (MATCH EXISTING) TED S. KOESTER

NUMBER

PE-201300059

1

SIONAL Ted Horales

DETAILS OF CONCRETE REMOVAL AT END BENTS

The cost of concrete removal as shown will be considered completely covered by the contract unit price for Removal of Existing Bridge Deck. Vertical backwall and wingwall reinforcement to be cut off one inch below concrete removal surface and the resulting holes shall be filled with a qualified special mortar.

A smooth, level surface shall be provided at End Bent No. 1 & 4 removal lines.

General Notes:

Stay-In-Place Forms:

Corrugated steel forms, supports, closure elements and accessories shall be in accordance with grade requirement and coating designation G165 of ASTM A653. Complete shop drawings of the permanent steel deck forms shall be required in accordance with Sec 1080.

Corrugations of stay in-place forms shall be filled with an expanded polystyrene material. The polystyrene material shall be placed in the forms with an adhesive in accordance with the manufacturer's recommendations.

Form sheets shall not rest directly on the top of beam flanges. Sheets shall be securely fastened to form supports with a minimum bearing length of one inch on each end. Form supports shall be placed in direct contact with the flange. Welding on or drilling holes in the beam flanges will not be permitted. All steel fabrication and construction shall be in accordance with Sec 1080 and 712. Certified field welders will not be required for welding of the form

The design of stay-in-place corrugated steel forms is per manufacturer which shall be in accordance with Sec 703 for false work and forms. Maximum actual weight of corrugated steel forms allowed shall be 4 psf assumed for beam loading.

The contractor shall provide a method of preventing the direct contact of the stay-in-place forms and connection components with uncoated weathering steel members that is approved by the engineer.

Pouring and Finishing Slab:

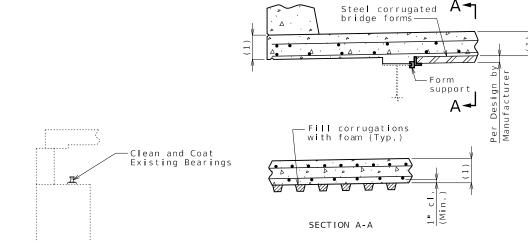
The contractor shall provide bracing necessary for lateral and torsional stability of the beams during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not weld on or drill holes in the beams. The cost for furnishing, installing, and removing bracing will be considered completely covered by the contract unit price for Slab on Steel.

Slab shall be poured upgrade from end to end at a minimum rate of 25 cubic yards per hour.

Alternate pour sequences may be submitted to the engineer for approval. Keyed construction joints shall be provided between pours.

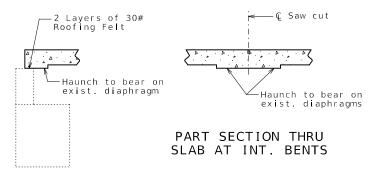
Haunching:

(1) Slab is to be considered a uniform thickness as shown on the plans. Haunching will vary. See front sheet for slab thickness.

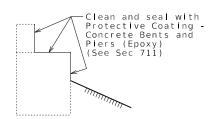


TYPICAL SECTION THRU
END BENT NO. 1 SHOWING
CLEANING & PROTETIVE
COATING OF BEARING





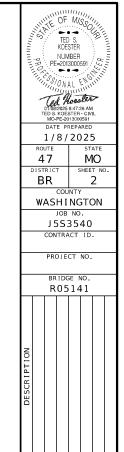
PART SECTION THRU SLAB AT END BENTS



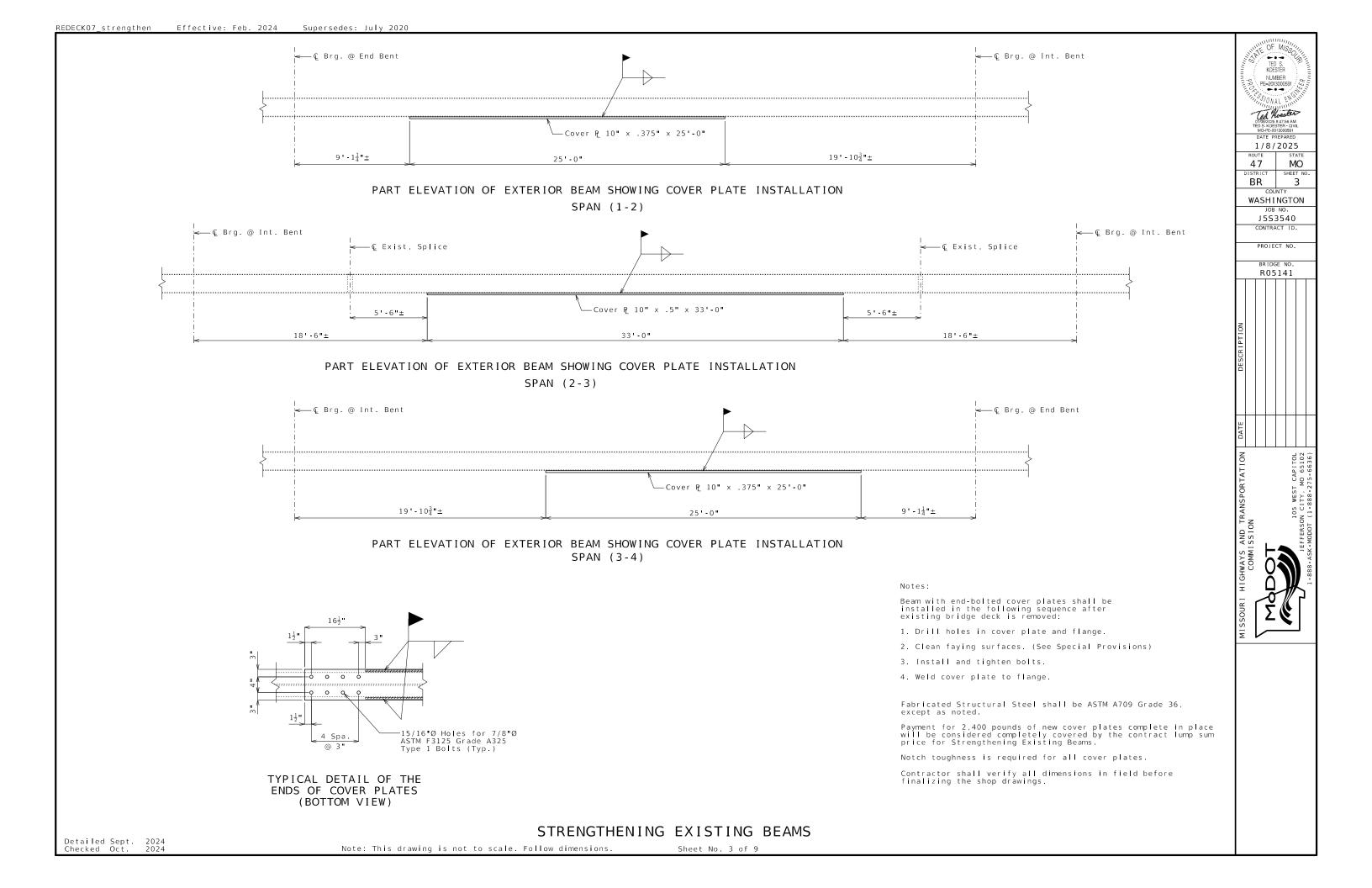
TYPICAL SECTION THRU
END BENTS 1 & 4 SHOWING
PROTECTIVE COATING

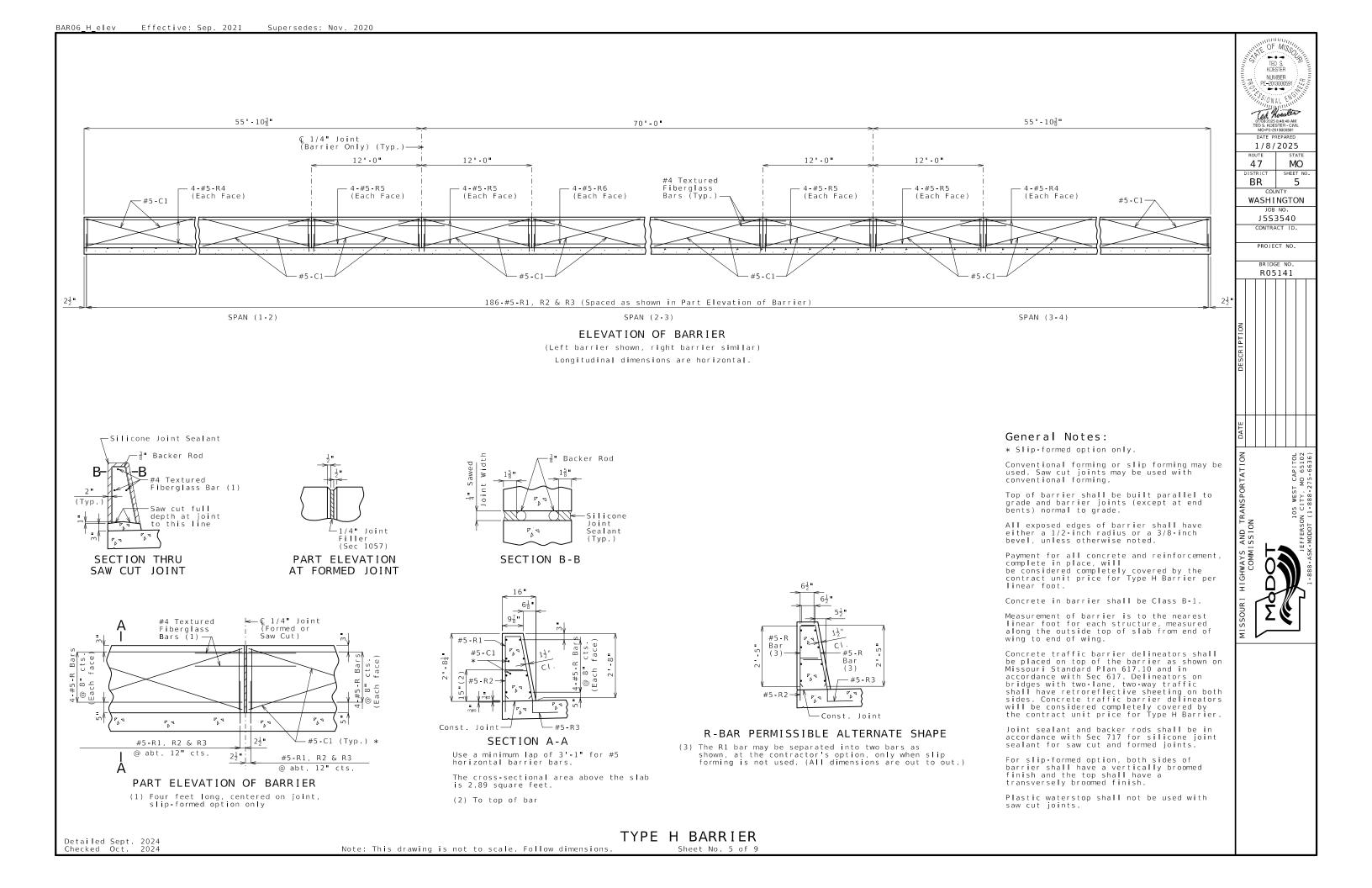


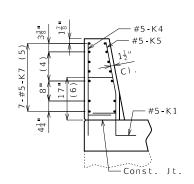
TYPICAL SECTION THRU
INT. BENTS 2 & 3 SHOWING
PROTECTIVE COATING



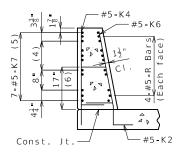




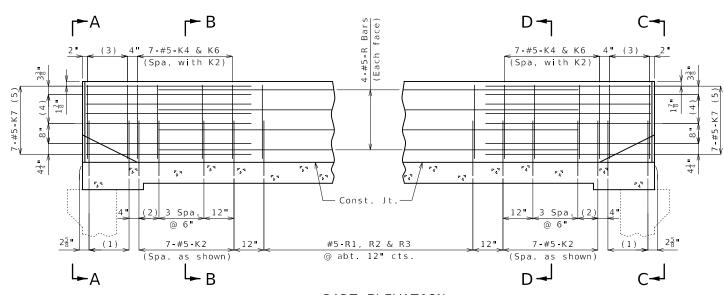




ELEVATION A-A

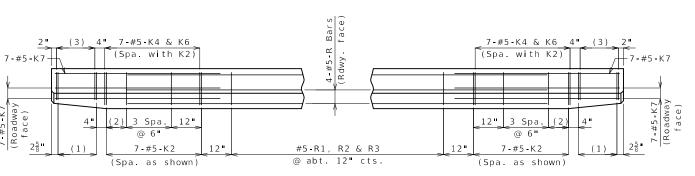


SECTION B-B

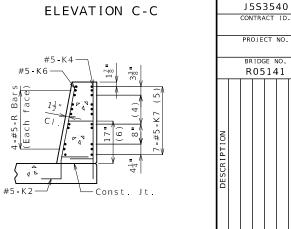


PART ELEVATION

- (1) 5-#5-K1 @ 4" cts.
- (2) 2 Spaces @ 4"
- (3) 5-#5-K4 and 5-#5-K5, spaced with K1
- (4) 3 Spaces @ 3¹³₁₆
- (5) Spaced as shown, each face
- (6) To top of bar



PART PLAN



TED S KOESTER

NUMBER

Off OS/2025 o...

1/8/2025

WASHINGTON

MO SHEET NO

6

47

BR

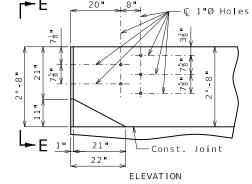
SECTION D-D

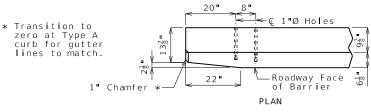
#5-K4

#5-K5

Const. Jt.-

5-1"Ø Holes @ 3 13/16" cts. ELEVATION E-E





DETAILS OF GUARD RAIL ATTACHMENT

General Notes:

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type H Barrier.

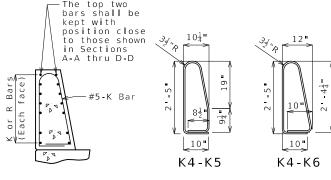
Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2".

Use a minimum lap of 3'-1" between K7 bars and R bars.

TYPE H BARRIER AT END BENTS

(Left barrier shown, right barrier similar)

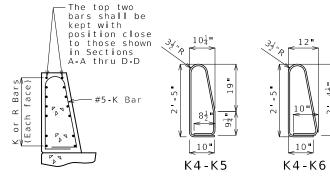


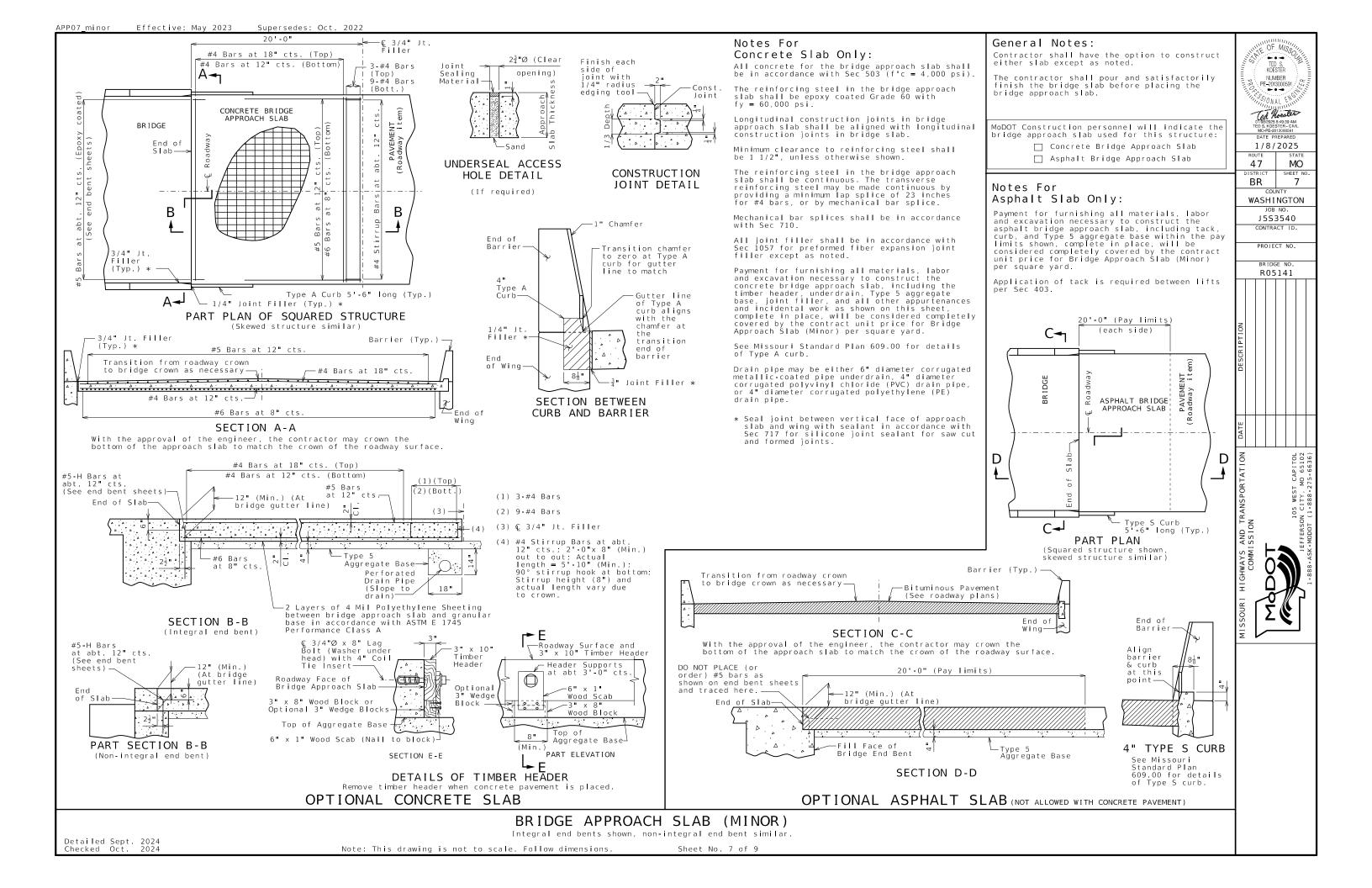
PERMISSIBLE ALTERNATE SHAPES

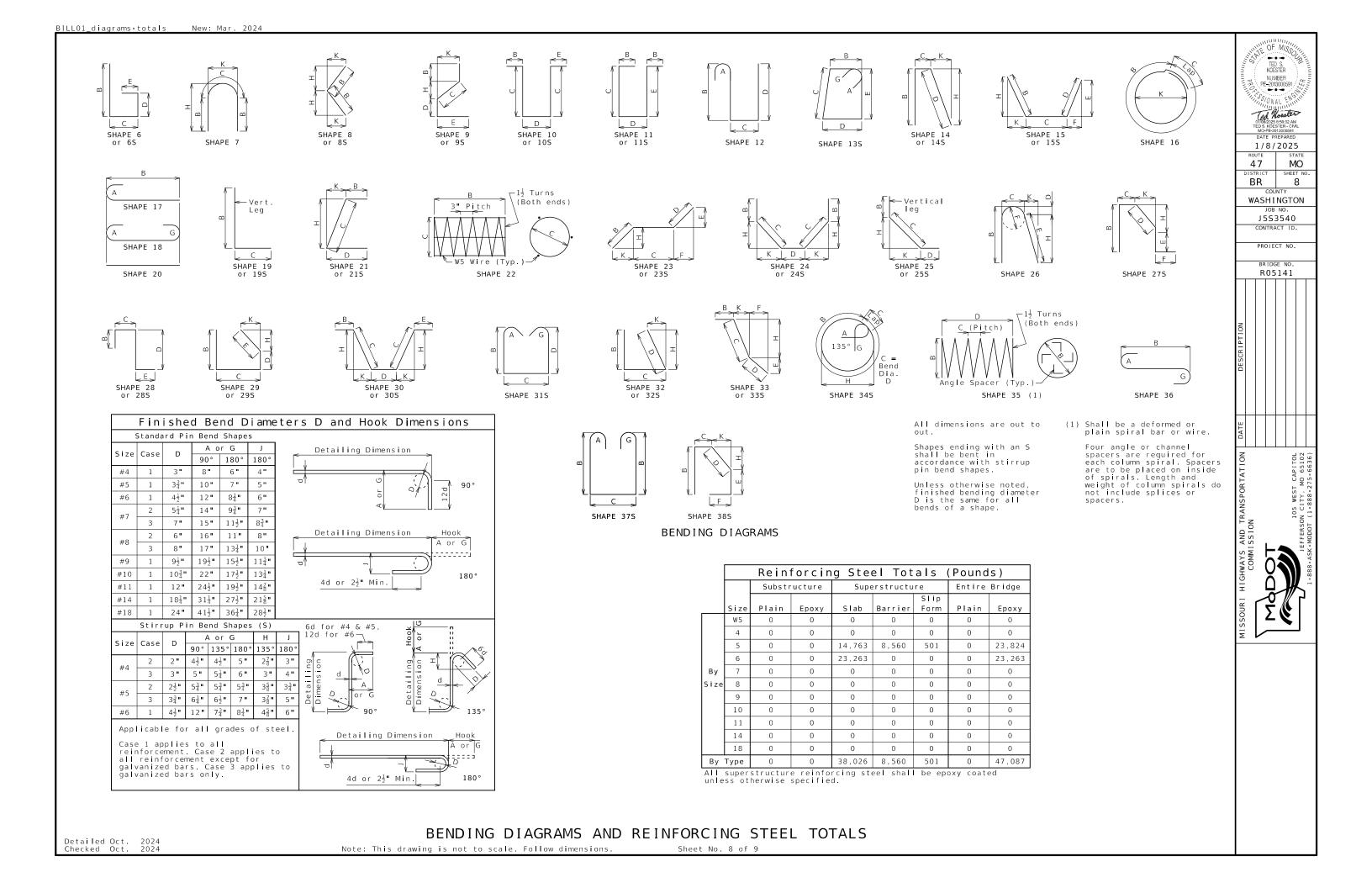
(Other K bars not shown for clarity)

The K4-K5 and K4-K6 bar combination may be furnished as one bar as shown, at the contractor's option.

All dimensions are out to out.







BILLO2 data New: Mar. 2024

	Bill of Reinforcing Steel								Bill of Reinforcing Steel										WILL OF MISON.						
						D	imension	S		Nom.	Actua								Dimensi	ons		Nom		ı	OF MISSOURIES S. KOESTER
No. Req	Size/ Mark		Codes		ft in f	D t in	ft in	F H ft in.	f t in	Length	Lengtl	n Weight	No. Req	1	Location	Code		C ft in	D E	f t in			h Lengtl n. ft ir	n weight	KOESTER :
Req.	Mark	Location	2 30 1	VIIL IN.	IL III. I	t III.	IL III.	It In. It In.	IL III.	1 (111	. 11 11	1. 10	Req	. Mark	Location	С 5П	VIL III.	IL IN.	It III. It III	. 11. 111.	I t In. It	III. IL I	11. 11. 11	1. 10	NUMBER PE-2013000591
		Superstructure																							11,08/ONAL EMULLI
l		Slab											╟												01/08/2025 8:50:24 AM TED S. KOESTER - CIVIL MO-PE-2013000591
252	5 51	SLAB E	20	47 0.00						47 0		12,353													01708/2025 8:50:24 AM TED S. KOESTER - CIVIL MO-PE-2013000591
88 505	5 S2 6 S3		20	26 3.00 28 5.00						26 3 28 5		2,410													DATE PREPARED 1/8/2025
50	6 54			2 28 2.50							28 3														ROUTE STATE
		Incr. = 12.875"		2 6.00						2 6	2 6	1,155													47 MO
24	6 S5	SLAB E	= 20 3	2 27 1.88						27 2	27 2)	-												BR 9
		Incr. = 25.750"		3 6.88						3 7	-	554													COUNTY
		Barrier																							WASHINGTON JOB NO.
		Type H		1												+									J5S3540 CONTRACT ID.
20	5 K1	BARRIER E	275			5.25	3 2.75	5.25	1.00	8 1	7 1		<u> </u>			$\pm \pm$							\pm		
28	5 K2	BARRIER E	275	3 8.00	9.25	14.50	2 5.75	14.25		8 2						+									PROJECT NO.
48 20	5 K4 5 K5		19S 38S	2 5.00		19.25		18.75	4.25	3 3			\vdash	+ +		+					+		+	+	BRIDGE NO.
28	5 K6	BARRIER E	215		2 5.00	10.00		2 4.25		3 3	3 2	92													R05141
56	5 K7	BARRIER E	20	10 0.00						10 0	10 0	584				+					+ +			+	
372			145	2 5.00		2 5.50		2 5.00	5.50																
372 372	5 R2 5 R3		19S 27S	20.50	9.50	15.25	5.00	12.00 15.00	3.00	2 6		_	-												1_
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list	ed to t	gths are based on he nearest inch fo	r fabr	ricator's	use. Actu	al leng	ths are	measured along	-		ΔΙΙ	hars sha	II be	Grade 60.				cqui		=					1

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.

All bars shall be Grade 60.

SH = Required shape, see bending diagrams.

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.

For bending diagrams and steel reinforcing totals, see Sheet No. 8.

BILL OF REINFORCING STEEL

Detailed Oct. 2024 Checked Oct. 2024

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

Sheet No. 9 of 9