#### DESIGN DESIGNATION

A.A.D.T. - 2022 = 16,698 A.A.D.T. - 2042 = 31,726 T = 43.60% V = 70 M.P.H.

FUNCTIONAL CLASSIFICATION-INTERSTATE



#### CONVENTIONAL SYMBOLS (USED IN PLANS)

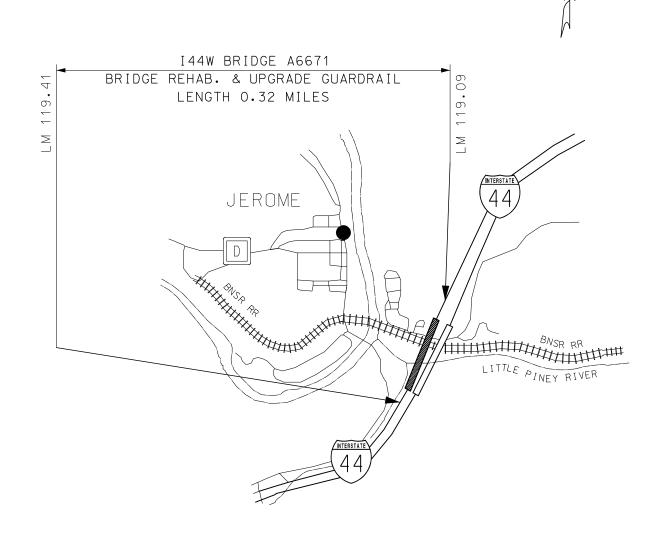
	EXISTING	NEW
BUILDINGS AND STRUCTURES GUARD RAIL GUARD CABLE CONCRETE RIGHT-OF-WAY MARKER STEEL RIGHT-OF-WAY MARKER LOCATION SURVEY MARKER UTILITIES	0000	
FIBER OPTICS OVERHEAD CABLE TV UNDERGROUND CABLE TV OVERHEAD TELEPHONE UNDERGROUND TELEPHONE OVERHEAD POWER UNDERGROUND POWER SANITARY SEWER STORM SEWER GAS WATER	- FOOTVUTV OT UT OE UE SS G W	-FO- -OTV- -UTV- -OE- -UE- -S- -SS- -G-
MANHOLE	Dsan	$\ni$
FIRE HYDRANT	HYD	1
WATER VALVE	WV CI	€
WATER METER	₽,	)
DROP INLET	Ë	
DITCH BLOCK	=	<b>=</b>
GROUND MOUNTED SIGN	SIGN	_
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL FENCE CHAIN LINK WOVEN WIRE GATE POST BENCHMARK	——————————————————————————————————————	′ —— ′ ——
DENCHMARK	⊗	y

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

## PLANS FOR PROPOSED STATE HIGHWAY

PHELPS 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
TITLE SHEET	1
TYPICAL SECTIONS (TS) (1 SHEETS)	2
QUANTITIES (QU) (1 SHEETS)	3
SPECIAL SHEETS (SS)	4
TRAFFIC CONTROL SHEETS (TC)	5 - 7
BRIDGE DRAWINGS (B)	
A6671	1 - 2

JAMES V. JAM					
	/2023				
ROUTE	STATE				
I 44W	MO				
DISTRICT	SHEET NO.				
CD	1				
COU	NTY				
	LPS				
	NO.				
	3481				
CONTRA	CT ID.				
PROJECT NO.					
BRIDGE NO.					

### LENGTH OF PROJECT

BEGINNING OF PROJECT LOG MILE 119.09 END OF PROJECT LOG MILE 119.41

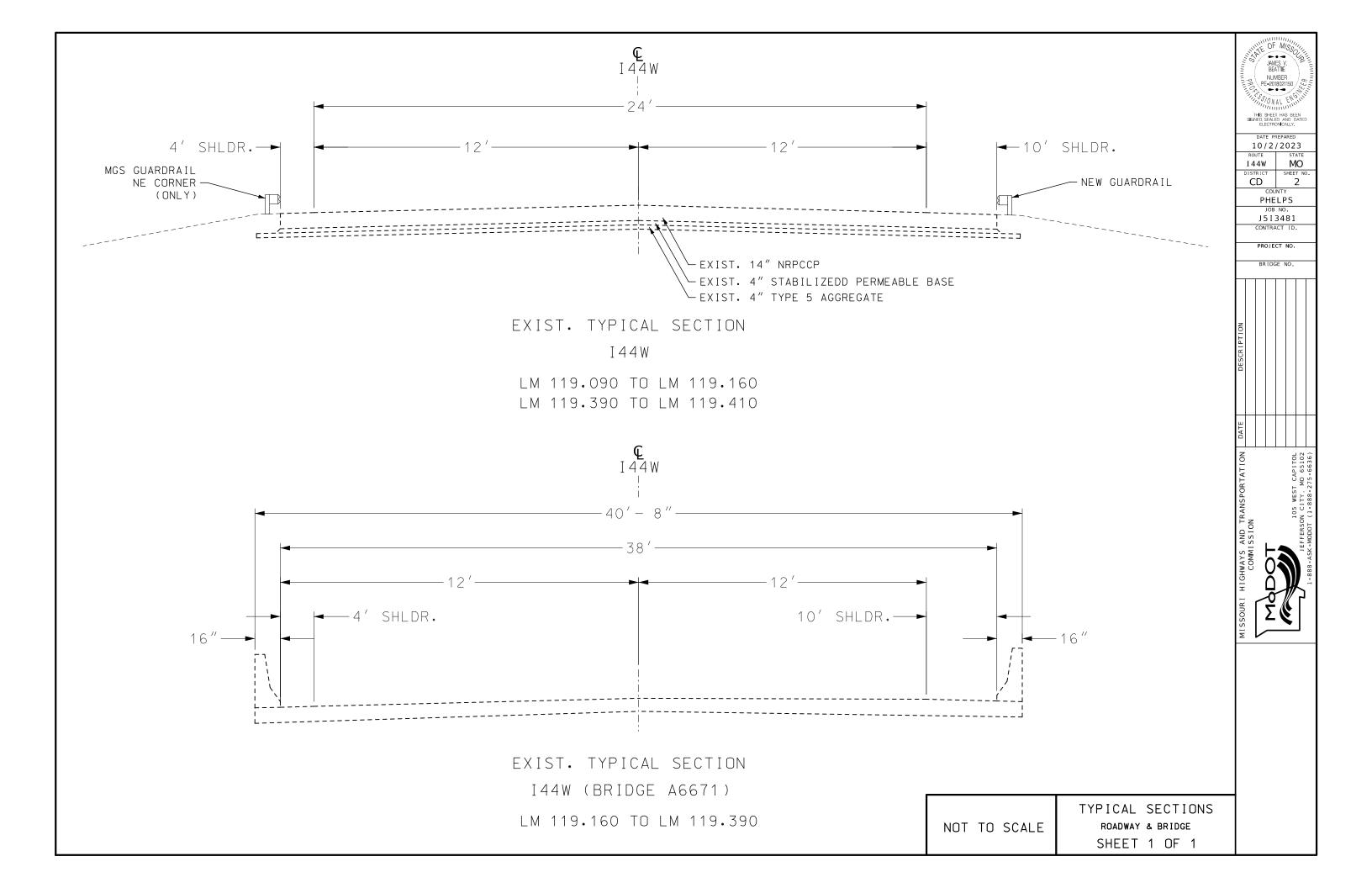
0.32 MILES APPARENT LENGTH

EQUATIONS AND EXCEPTIONS: NONE



TOTAL CORRECTIONS 0.00 FEET NET LENGTH OF PROJECT 1,689.6 FEET STATE LENGTH 0.32 MILES FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES

0 ACRES



				CONST	RUCTION SI	GNS
SIGN		SIZE	AREA		TOTAL AREA	
NO.	SIGN	(IN)	(SF)	QTY.	(SF)	DESCRIPTION
2	W020-1	48 × 48	16.00	2	32.00	ROAD WORK AHEAD
4	R2-1	48 × 48	16.00	2	32.00	SPEED LIMIT 60
5	W020-5	48 × 48	16.00	2	32.00	RIGHT LANE CLOSED AHEAD / CENTER LANE OR LEFT LANE
6	W020-6a	48 × 48	16.00	1	16.00	RIGHT LANE CLOSED / CENTER OR LEFT
6A	WO4-1AL	48 × 48	16.00	1	16.00	MERGE W/LT. ARROW
6B	WO4-1AR	48 × 48	16.00	1	16.00	MERGE W/RT. ARROW
25	R2-1	36 x 48	12.00	2	24.00	SPEED LIMIT 70 (NORMAL SPEED)
33	CONST-8	48 × 36	12.00	2	24.00	WORK ZONE NO PHONE ZONE
54	G020-5aP	36 x 24	8.00	2	16.00	WORK ZONE
56	CONST-7-72	48 × 24	8.00	1	8.00	RATE OUR WORK ZONE
57	CONST-5-96	96 X 48	2.19	1	2.19	BRIDGE IMPROVEMENTS / SUMMER 2024
					218.19	
6-10.05	ION SIGNS T	OT AI			218	

CONSTRUCTION ITEMS					
ITEM NO.	QTY.	DESCRIPTION			
616-10.25	150	CHANNEL I ZERS			
616-10.33	15	DIRECTIONAL INDICATOR BARRICADES			
616.10.40	1	FLASHING ARROW PANEL			
616-10.55	15	SEQUENTIAL FLASHING WARNING LIGHTS			
616.10.99	1	CHANGEABLE MESSAGE SIGN			

JAMES V.
BEATTIE
NUMBER
PE-2018021150

10/6/2023 ROUTE STATE MO CD SHEET NO.

PHELPS JOB NO.
J5I3481
CONTRACT ID.

PROJECT NO.

DESCRIPTION				
DATE				

NOTE: REFER TO STANDARD PLAN 616.10 AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.

119.09     119.16     I44 (WB)     1     1     275     4.1     NW CORNER / RT / E       119.09     119.16     I44 (WB)     1     1     275     4.1     NE CORNER / LT / E       119.39     119.41     I44 (WB)     1     1     12.5     1.5     SE CORNER / LT / BF	GUARDRAIL								
LOG         LOG         MASH         (REGULAR / NO CURB)         GUARDRAIL         AREA           MILE         MILE         LOCATION         (EA)         (LF)         (100 FT)         REMAR           119.09         119.16         144 (WB)         1         1         275         4.1         NW CORNER / RT / E           119.39         119.41         144 (WB)         1         1         275         4.1         NE CORNER / LT / BF           119.39         119.41         144 (WB)         1         1         12.5         1.5         SE CORNER / LT / BF			=	***==		SHAPING SLOPES			
MILE         MILE         LOCATION         (EA)         (EA)         (LF)         (100 FT)         REMARK           119.09         119.16         144 (WB)         1         1         275         4.1         NW CORNER / RT / E           119.09         119.16         144 (WB)         1         1         275         4.1         NE CORNER / LT / E           119.39         119.41         144 (WB)         1         1         12.5         1.5         SE CORNER / LT / BF			END TERMINAL	TRANSITION SECTION	MGS	CLASS III			
119.09	.OG LOG		MASH	(REGULAR / NO CURB)	GUARDRAIL	AREA			
119.09 119.16 I44 (WB) 1 1 1 275 4.1 NE CORNER / LT / E 119.39 119.41 I44 (WB) 1 1 1 12.5 1.5 SE CORNER / LT / BF	ILE MILE	LOCATION	(EA)	(EA)	(LF)	(100 FT)	REMARKS		
119.39 119.41 I44 (WB) 1 1 1 12.5 1.5 SE CORNER / LT/ BF	9.09 119.16	I44 (WB)	1	1	275	4.1	NW CORNER / RT / BRIDGE A6671		
	9.09 119.16	I44 (WB)	1	1	275	4.1	NE CORNER / LT / BRIDGE A6671		
	9.39 119.41	I44 (WB)	1	1	12.5	1.5	SE CORNER / LT/ BRIDGE A6671		
SUBTUTAL   3   562.5   9.7		SUB TOTAL	3	3	562.5	9.7			
USE 3 3 563 10		USE	3	3	563	10			

GUARDCABLE									
			ANCHOR ASSEMBLY	MEDIAN CHARR CARLE	AGGREGATE BEDDING FOR				
LOG	LOG		GUARD CABLE 3-STRAND	GUARD CABLE 3-STRAND	3-STRAND GUARD CABLE				
MILE	MILE	LOCATION	(EA)	(LF)	(CY)	REMARKS			
119.04	119.15	I44 MEDIAN	1	570	28.14	BRIDGE A6671 / EAST END / MEDIA			
		SUB TOTAL	1	570	28.1				
		USE	1	570	28				
<u>ERIFY LO</u>	CATION IN	THE FIELD BEFORE	INSTALLATION.						

		REMOVAL	OF IMPROVEMENT	rs .
LOG MILE	LOG MILE	LOCATION	ITEMS OF REMOVAL	REMARKS
119.11	119.16	I44 (WB)	ENDS & GUARDRAIL	NW CORNER / RT / BRIDGE A6671
119.09	119.16	I44 (WB)	ENDS & GUARDRAIL	NE CORNER / LT / BRIDGE A6671
119.39	119.41	I44 (WB)	ENDS & GUARDRAIL	SE CORNER / LT / BRIDGE A6671
		1	LUMP SUM	

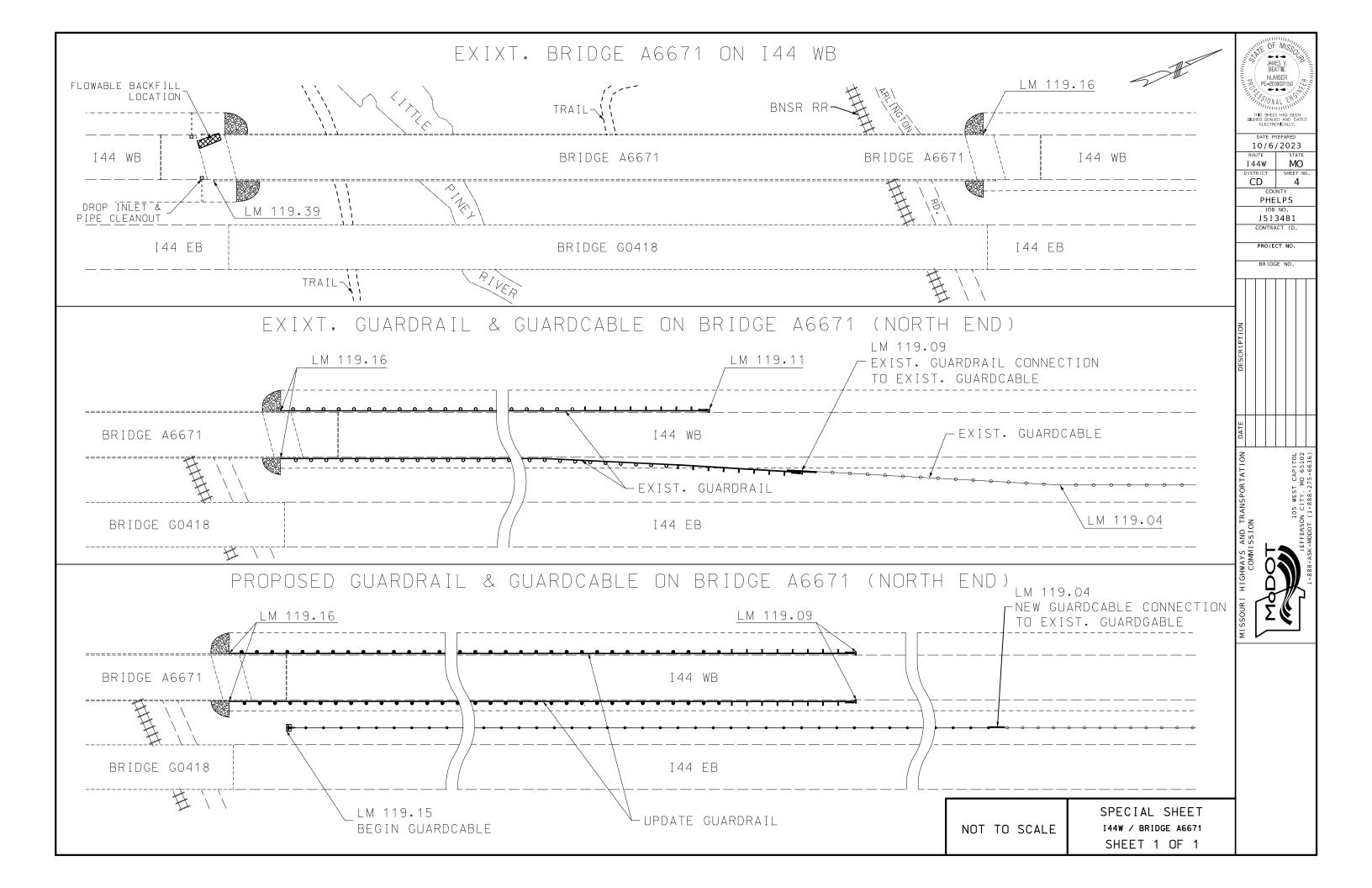
SCOUR REPAIR							
		FLOWABLE					
		BACKFILL					
LOG MILE	SIZE	(CY)	REMARKS				
119.38	8' L × 2' W × 3' D	5.3	WEST ABUTMENT				
	USE	6.00					

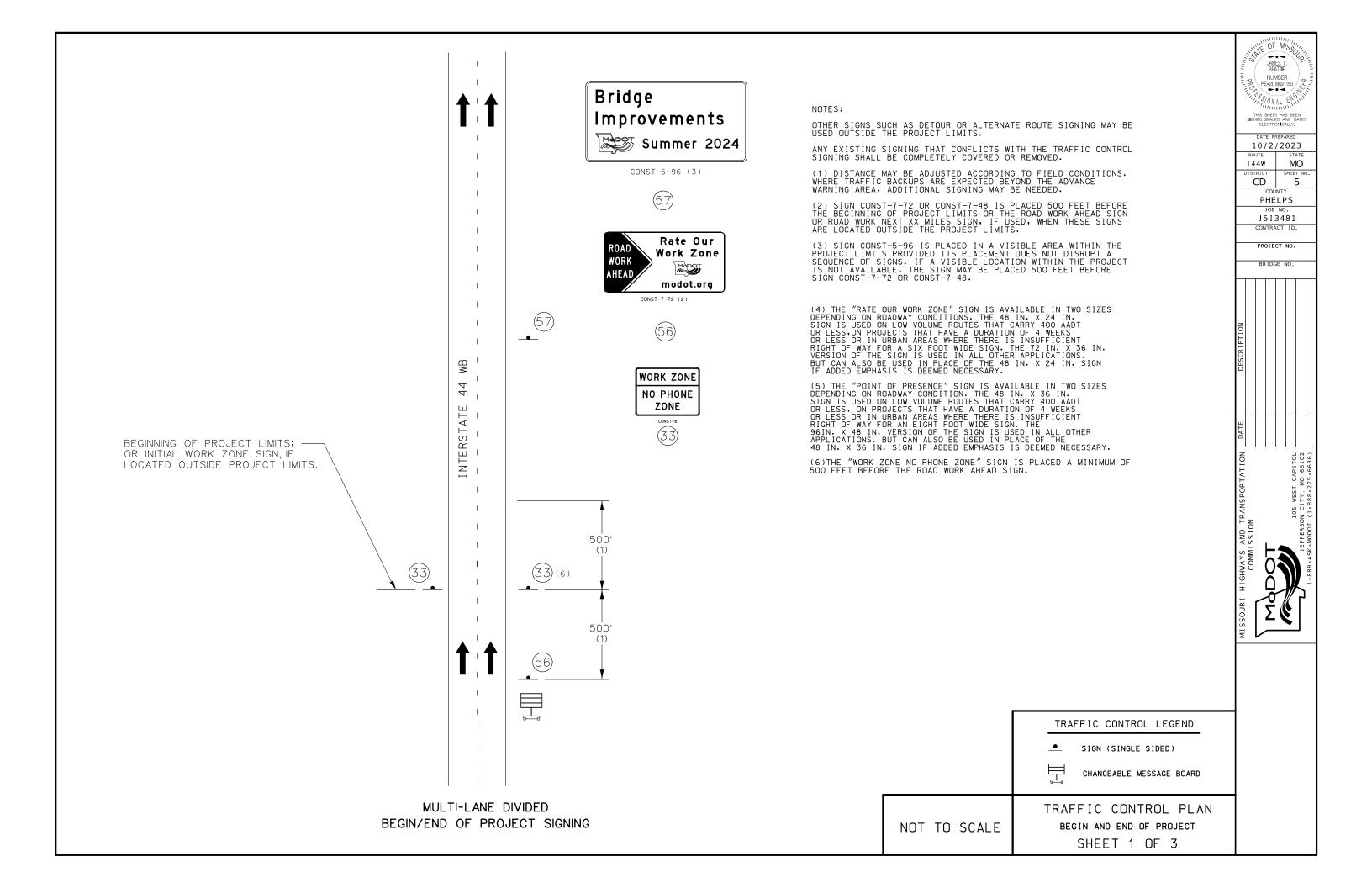
MOBILIZATION 1 LUMP SUM

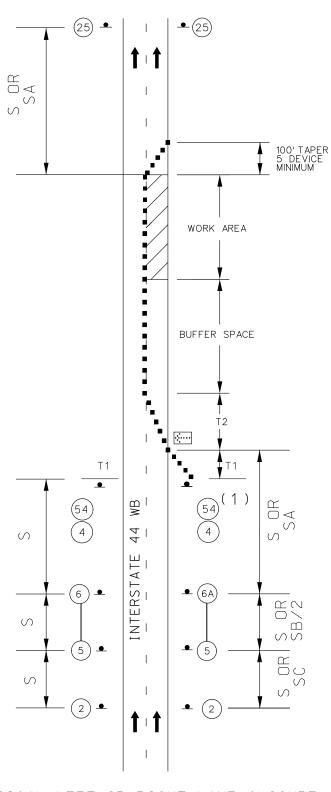
DROP INLET & PIPE CLEANOUT 1 LUMP SUM

NOT TO SCALE

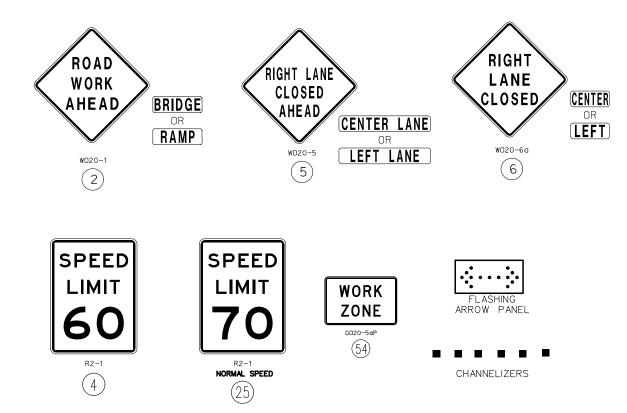
SUMMARY OF QUANTITIES SHEET 1 OF 1







TYPICAL LEFT OR RIGHT LANE CLOSURE MULTI-LANE DIVIDED HIGHWAY



NOTES:

SEE TRAFFIC CONTROL SHEET 3 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

REDUCED SPEED LIMIT SIGNING SHALL BE REMOVED, COVERED, OR TURNED FROM TRAFFIC WHEN CONDITIONS REQUIRING THE REDUCED SPEED NO LONGER EXISTS.

THE 60-70 MPH SCENARIOS ARE FOR SIGN PLACEMENT INFORMATION ONLY. SIGNS SHALL BE PLACED ON BOTH SIDES OF THE ROADWAY FOR DIVIDED ROADWAYS.

FOR NIGHT TIME OPERATIONS, REVIEW EPG 616.6.83 WARNING LIGHTS FOR USE OF SEQUENTIAL LIGHTS.

REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.

A FLASHING 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.

(1) THE SPEED LIMIT SIGN MAY BE MOVED UPSTREAM, IF THE DISTRICT DEEMS THE WORK ZONE REQUIRES ADVANCE SPEED LIMIT NOTIFICATION.

TRAFFIC CONTROL LEGEND

SIGN (SINGLE SIDED)

DIRECTIONAL INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHTS

CHANNEL I ZER

FLASHING ARROW PANEL

WORK ZONE

MERGE

W04-1aL

(6A)

MERGE

W04-1aR

(6B)

NOT TO SCALE

TRAFFIC CONTROL PLAN
LANE CLOSURE
SHEET 2 OF 3

PHETAZION DATE

TOP MON TATION

BEST CAPITOL

W. MO 65102

Y. MO 65102

W. MO 65102

W. MO 65102

W. MO 65102

JAMES V. BEATTIE

SSONAL E

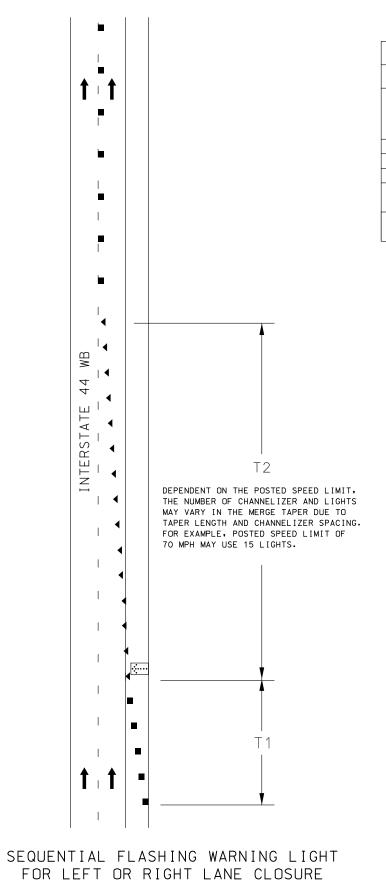
10/2/2023

MO

6

I 44W

CD



MULTI LANE DIVIDED HIGHWAY

	SIGNING AND SEQUENTIAL FLASHING WARNING LIGHT SPACING								
SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)			
	UNDIVIDED (S)	DIVIDED (S)	SHOULDER (1)	LANE (2) (T2)	BUFFER LENGTH (f+.)	TAPERS	BUFFER WORK AREAS		
0-35	200′	200′	70′	245′	250′	35′	50′		
40-45	350′	500′	150′	540′	360′	40′	100′		
50-55	500′	1000′	185′	660′	495′	50′	100′		
60-70	SA - 1000' SB - 1500', AND SC - 2640'		235′	840′	730′	60′	100′		

1 SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.

2 LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.

#### NOTES:

- (1) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS ND VISIBILTY.
- (2) TAPER LENGTHS SHOWN INCLUDE LENGTH REQUIRED FOR LANE AND 10' SHOULDER.

CD 7 PHELPS J513481 CONTRACT ID. PROJECT NO. BRIDGE NO.

JAMES V.
BEATTIE
NUMBER
PE-2018021150

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10/2/2023

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I 44W

TRAFFIC CONTROL LEGEND

SIGN (SINGLE SIDED)

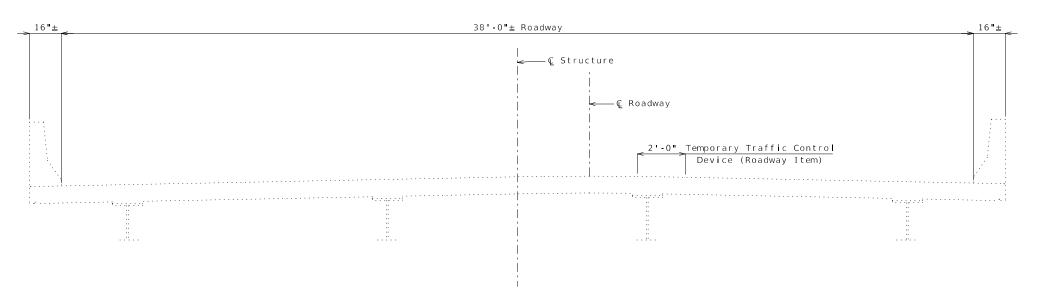
DIRECTIONAL INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHTS

CHANNEL IZER

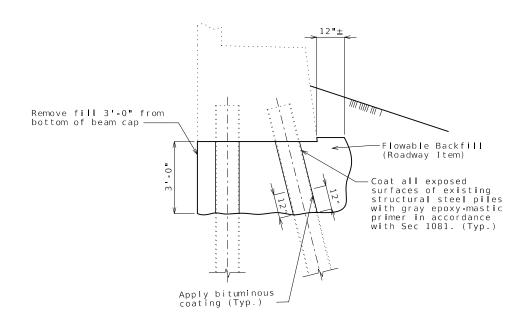
FLASHING ARROW PANEL

TRAFFIC CONTROL PLAN NOT TO SCALE SEQUENTIAL FLASHING WARNING LIGHT SPACING SHEET 3 OF 3

#### U.I.P. AND REHABILITATE EXISTING (107'-115'-165'-143'-165'-165'-165'-85') CONTINUOUS COMPOSITE PLATE GIRDER SPANS (SKEW: 15° R.A.)



#### TYPICAL SECTION THRU EXISTING DECK



### TYPICAL SECTION THRU END BENT NO. 1 SHOWING PROTECTIVE COATING AND FLOWABLE BACKFILL

All exposed surfaces of the existing structural steel piles shall be recoated with one 6-mil thickness of gray epoxy-mastic primer applied over an SSPC-SP3 surface preparation in accordance with Sec 1081. The bituminous coating shall be applied one foot above the existing ground line and in accordance with Sec 702. These protective coatings will not be required below the normal low water line. The cost of surface preparation will be considered completely covered by the contract lump sum price for Surface Preparation for Applying Epoxy-Mastic Primer. The cost of the gray epoxy-mastic primer and bituminous coating will be considered completely covered by the contract lump sum price for Gray Epoxy-Mastic Primer.

#### General Notes:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications Bridge Deck Rating = 6

Design Loading:

HS20 Modified (2002), HS20 Modified (New Construction)

Miscellaneous

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

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

Contractor shall verify all dimensions in field before ordering new material.

Traffic Handling:

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

Estimated Quantities		
I t em		Total
Class 1 Excavation	cu. yard	5
Removal of Existing Bearings	each	2
Surface Preparation for Applying Epoxy-Mastic Primer	lump sum	1
Gray Epoxy-Mastic Primer	lump sum	1
Type N PTFE Bearing	each	2

REPAIRS TO BRIDGE: ROUTE I-44 OVER LITTLE PINEY RIVER, BNSF RAILWAY & OUTER ROAD

ROUTE I-44 WB FROM ROUTE T TO ROUTE J
ABOUT 5.6 MILES SOUTHWEST OF ROUTE T
BEGINNING STATION 264+74.55 ± (Match Existing)

FED 8.
NUMBER
PE-2013000591

DATE PREPARED

10/12/2023

ROUTE STATE

I - 44 MO

DISTRICT SHEET NO

PHELPS

JOB NO.

J5 I 3481

CONTRACT ID.

1

BR

PROJECT NO.

DESCRIPTION BRIDGE NO. A66711

COMMISSION

LODOT

105 WEST CAPITOL

JEFFERSON CITY, NO 65102

