

DESIGN DESIGNATION

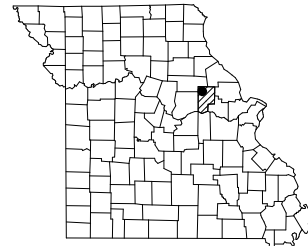
A.A.D.T. - 2024 = 58
 A.A.D.T. - 2044 = 64
 D.H.V. = 12.07%
 T = 11.40%
 V = 55 M.P.H.
 DIRECTIONAL DISTRIBUTION = 53.6% E / 46.4% W
 FUNCTIONAL CLASSIFICATION = MINOR COLLECTOR

NO NEW R/W

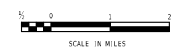
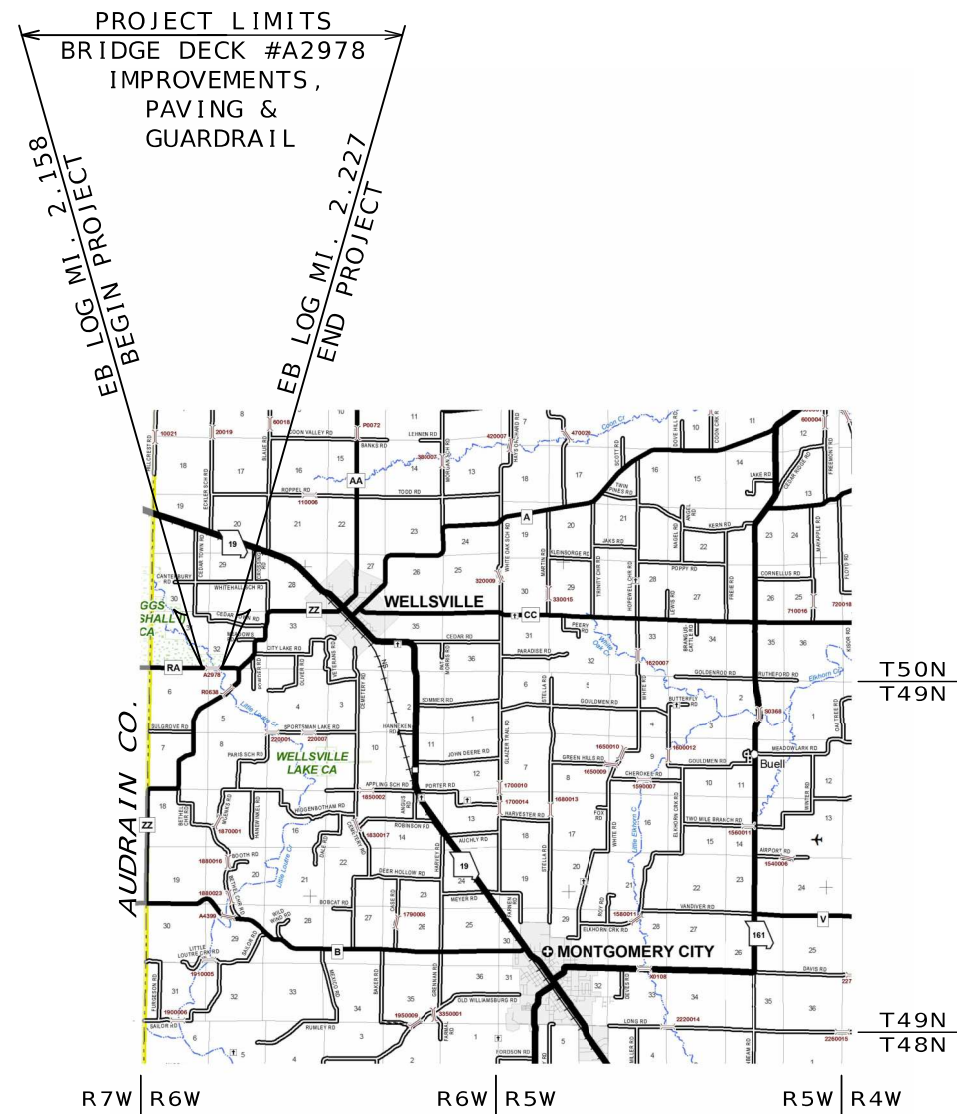
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

**PLANS FOR PROPOSED
STATE HIGHWAY**

**MONTGOMERY COUNTY
T50N R6W
T49N R6W**



KEY MAP
LOCATION OF MONTGOMERY COUNTY



**CONVENTIONAL SYMBOLS
(USED IN PLANS)**

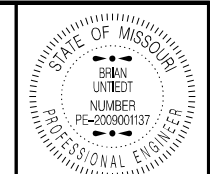
	EXISTING	NEW
BUILDINGS AND STRUCTURES	[Symbol]	[Symbol]
GUARD RAIL	[Symbol]	[Symbol]
GUARD CABLE	[Symbol]	[Symbol]
CONCRETE RIGHT-OF-WAY MARKER	[Symbol]	[Symbol]
STEEL RIGHT-OF-WAY MARKER	[Symbol]	[Symbol]
LOCATION SURVEY MARKER	[Symbol]	[Symbol]
UTILITIES		
FIBER OPTICS	-FO-	-FO-
OVERHEAD CABLE TV	-OTV-	-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	[Symbol]	[Symbol]
FIRE HYDRANT	[Symbol]	[Symbol]
WATER VALVE	[Symbol]	[Symbol]
WATER METER	[Symbol]	[Symbol]
DROP INLET	[Symbol]	[Symbol]
DITCH BLOCK	[Symbol]	[Symbol]
GROUND MOUNTED SIGN	[Symbol]	[Symbol]
LIGHT POLE	[Symbol]	[Symbol]
H-FRAME POWER POLE	[Symbol]	[Symbol]
TELEPHONE PEDESTAL	[Symbol]	[Symbol]
FENCE	[Symbol]	[Symbol]
CHAIN LINK	[Symbol]	[Symbol]
WOVEN WIRE	[Symbol]	[Symbol]
GATE POST	[Symbol]	[Symbol]
BENCHMARK	[Symbol]	[Symbol]

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

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 SHEET)	2
QUANTITIES (QU) (2 SHEETS)	3
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TRAFFIC CONTROL SHEETS (TC)	5-6
BRIDGE DRAWINGS (B)	
A2978	1



DATE PREPARED
10/24/2024

ROUTE STATE
RA MO

DISTRICT SHEET NO.
NE 1

COUNTY
MONTGOMERY

JOB NO.
JNE0123

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

LENGTH OF PROJECT

BEGINNING OF PROJECT	EB LM 2.158
END OF PROJECT	EB LM 2.227
APPARENT LENGTH	0.069 MILES
EQUATIONS AND EXCEPTIONS:	
NONE	-0.000 MILES

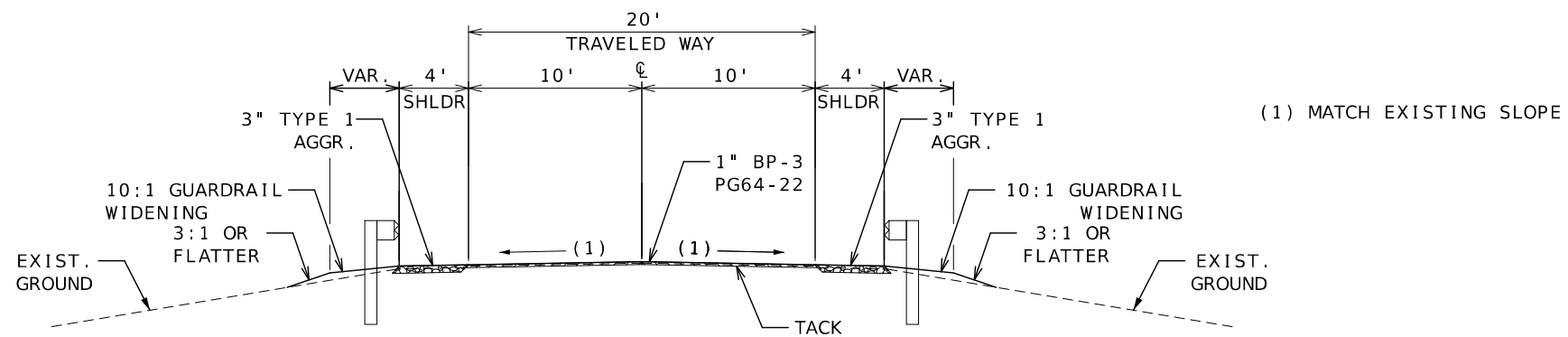
TOTAL CORRECTIONS	-0.000 MILES
NET LENGTH OF PROJECT	0.069 MILES
STATE LENGTH	0.069 MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0.0 ACRES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

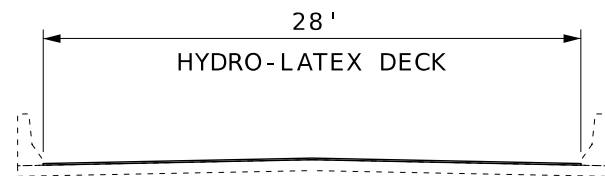
TITLE SHEET

FACTORS
 BP-3 PG64-22 1.893 TONS/CY
 TACK 0.10 GAL/SY



SECTION ON TANGENT
 TYPICAL SECTION RTE. RA

EB LOG MILE 2.158 TO LOG MILE 2.180
 EB LOG MILE 2.205 TO LOG MILE 2.227



BRIDGE #A-2978
 LM 2.180 TO LM 2.205

SEE SPECIAL SHEET FOR
 DEPTH TRANSITIONS.
 SEE SPECIAL SHEET FOR
 GUARDRAIL REMOVAL/INSTALLATION.



DATE PREPARED 10/24/2024	
ROUTE RA	STATE MO
DISTRICT NE	SHEET NO. 2
COUNTY MONTGOMERY	
JOB NO. JNE0123	
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)

TYPICAL SECTION

PAVING AND SHOULDERS										
LOG MI.	LOG MI.	LOCATION	PAVING WIDTH FT.	LENGTH FT.	AREA SF	1" BP-3 PG64-22 TONS	TACK GAL	TOTAL SHLDR. WIDTH FT.	3" TYPE 1 AGGR. FOR BASE SY	REMARKS
2.158	2.180	RTE. RA	20	116.16	2323	13.6	22.9	8.0	258.1	
2.205	2.227	RTE. RA	20	116.16	2323	13.6	22.9	8.0	258.1	
SEE PAVING DETAILS SPECIAL SHEET					TOTAL	27.2	45.8	-	516	

COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS)							
LOG MI.	LOG MI.	LOCATION	WIDTH FT.	LENGTH FT.	AREA SF	COLDMILLING SY	REMARKS
2.158	2.180	RTE. RA	20	116.2	2324	111.1	
2.205	2.227	RTE. RA	20	116.2	2324	111.1	
SEE PAVING DETAILS SPECIAL SHEET					TOTAL	222.2	

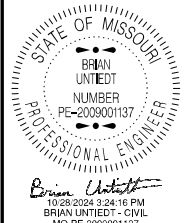
GUARDRAIL								
LOG MILE	ROUTE	BRIDGE	CROSSING	LOC.	MGS BRIDGE APPROACH TRANS. SECTION (NO CURB) EACH	TYPE A CRASHWORTHY END TERMINAL (MASH) EACH	SHAPING SLOPES CL. III 100 FT.	REMARKS
2.180	RTE. RA	A2978	LITTLE LOURE CRK.	LT.	1	1	1.2	
2.180	RTE. RA	A2978	LITTLE LOURE CRK.	RT.	1	1	1.2	
2.205	RTE. RA	A2978	LITTLE LOURE CRK.	LT.	1	1	1.2	
2.205	RTE. RA	A2978	LITTLE LOURE CRK.	RT.	1	1	1.2	
TOTAL					4	4	4.8	
NOTE: SEE STANDARD PLANS AND SPECIAL SHEETS FOR GUARDRAIL INSTALLATION DETAILS.								

PAVEMENT MARKING					
EB LOG MILE	EB LOG MILE	ROUTE	STANDARD WATERBORNE MARKING PAINT TYPE P BEADS		REMARKS
			4" WHITE FEET	4" YELLOW FEET	
2.158	2.207	RTE. RA	517	324	SOLID LT. - INTERMITTENT RT. CENTERLINE & WHITE EDGELINE
2.207	2.227	RTE. RA	211	26	INT. YELLOW CENTERLINE & WHITE EDGELINE
TOTAL			728	350	LOG MILES ARE APPROXIMATE - MATCH EXISTING STRIPING

REMOVAL OF IMPROVEMENTS
75' GUARDRAIL ON NW CORNER OF BRIDGE
75' GUARDRAIL ON SW CORNER OF BRIDGE
1 DELINEATOR NE CORNER OF BRIDGE
1 DELINEATOR SE CORNER OF BRIDGE
LUMP SUM 1

MOBILIZATION
LUMP SUM 1

CONTRACTOR SURVEYING AND STAKING
LUMP SUM 1



DATE PREPARED
10/24/2024

ROUTE STATE
RA MO

DISTRICT SHEET NO.
NE 3

COUNTY
MONTGOMERY

JOB NO.
JNE0123

CONTRACT ID.

PROJECT NO.

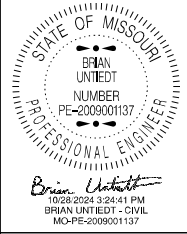
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

SUMMARY OF QUANTITIES
SHEET 1 OF 2



DATE PREPARED: 10/24/2024
ROUTE: RA STATE: MO
DISTRICT: NE SHEET NO.: 3

COUNTY: MONTGOMERY
JOB NO.: JNE0123
CONTRACT ID:

PROJECT NO.:
BRIDGE NO.:

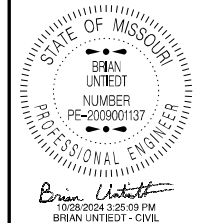
Table with columns: SIGN, SIZE, AREA, QTY, TOTAL AREA, QTY RELOC, TOTAL RELOC, SIGN NUM., DESCRIPTION. Contains 100 rows of sign specifications under the heading 'WARNING SIGNS'.

Table with columns: SIGN, SIZE, AREA, QTY, TOTAL, RELOC, TOTAL, SIGN NUM., DESCRIPTION. Contains 100 rows of sign specifications under the headings 'GUIDE SIGNS', 'REGULATORY SIGNS', and 'MISCELLANEOUS SIGNS'. Includes summary rows for '616-10.05 CONSTRUCTION SIGNS' (TOTAL 247) and '616-10.10 RELOCATED SIGNS' (TOTAL 64).

Table with columns: ITEM NUMBER, TOTAL QTY, DESCRIPTION. Contains 30 rows of item descriptions and quantities, including items like 'IMPACT ATTENUATOR 40 MPH (SAND BARRELS)', 'TYPE III MOVEABLE BARRICADE', and 'TEMPORARY TRAFFIC SIGNALS'.

Table with columns: DATE, DESCRIPTION. A grid for recording dates and descriptions of work items.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION logo and address: 105 WEST CAPITOL JEFFERSON CITY, MO 65102, 1-888-ASK-MODOT (1-888-275-6636). Vertical text: SUMMARY OF QUANTITIES SHEET 2 OF 2



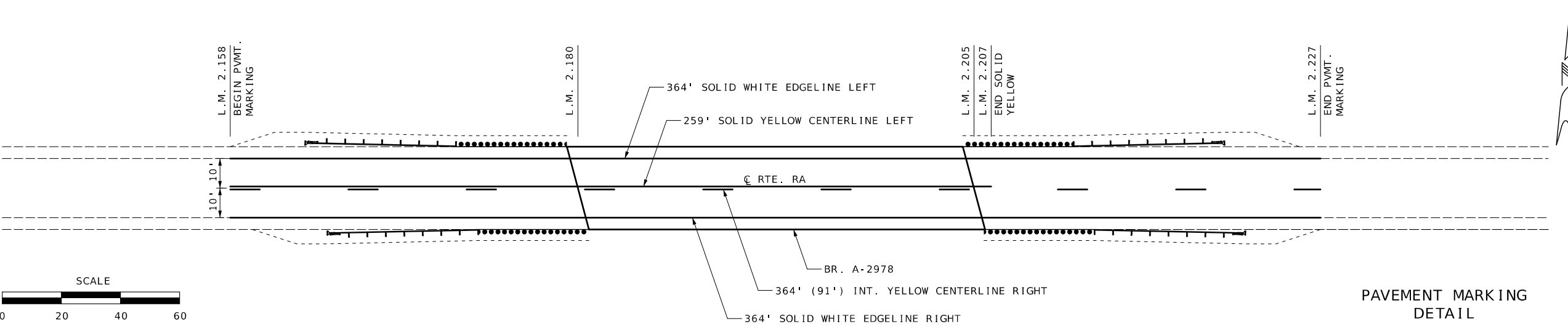
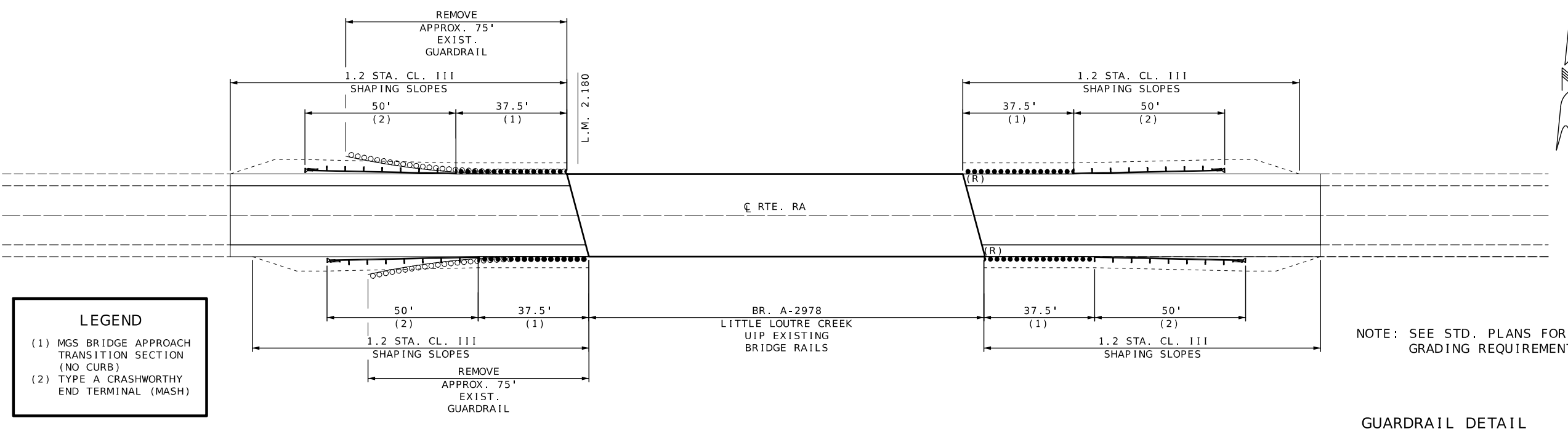
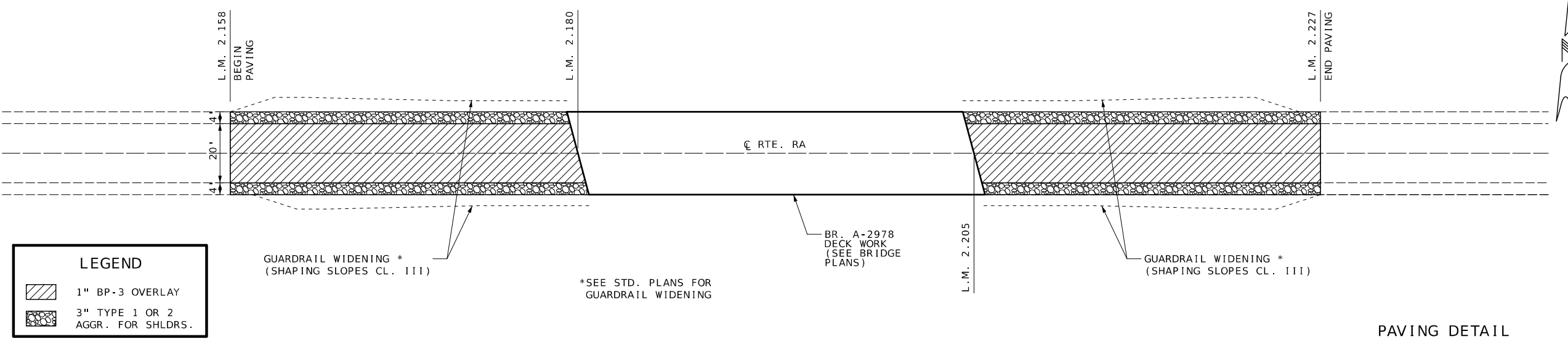
DATE PREPARED
10/24/2024
ROUTE RA STATE MO
DISTRICT NE SHEET NO. 4
COUNTY MONTGOMERY
JOB NO. JNE0123
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

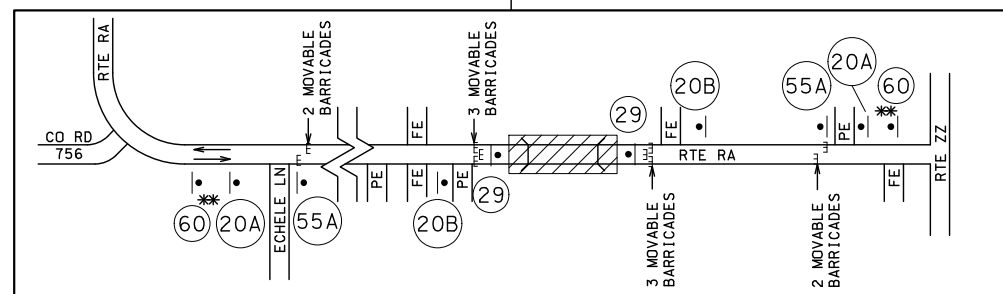
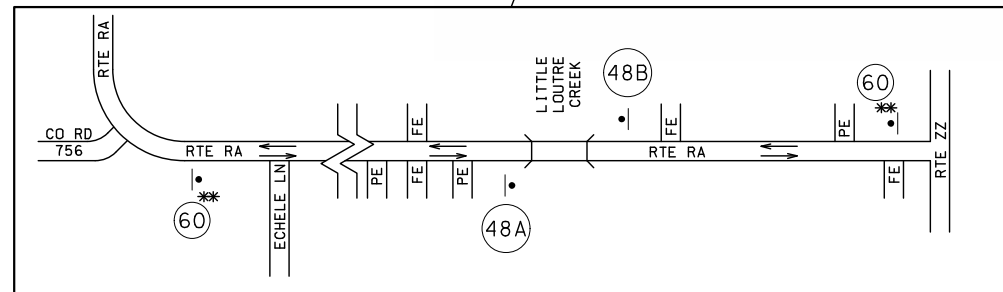
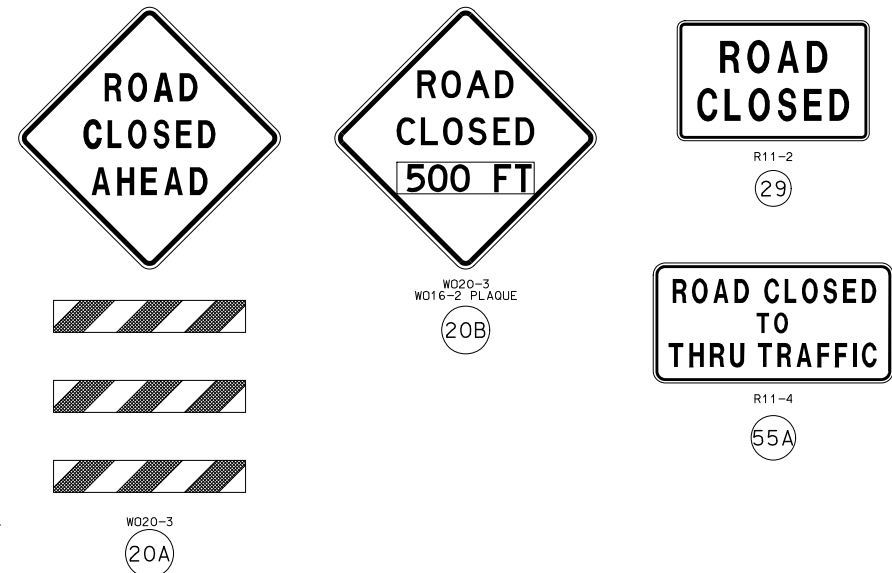
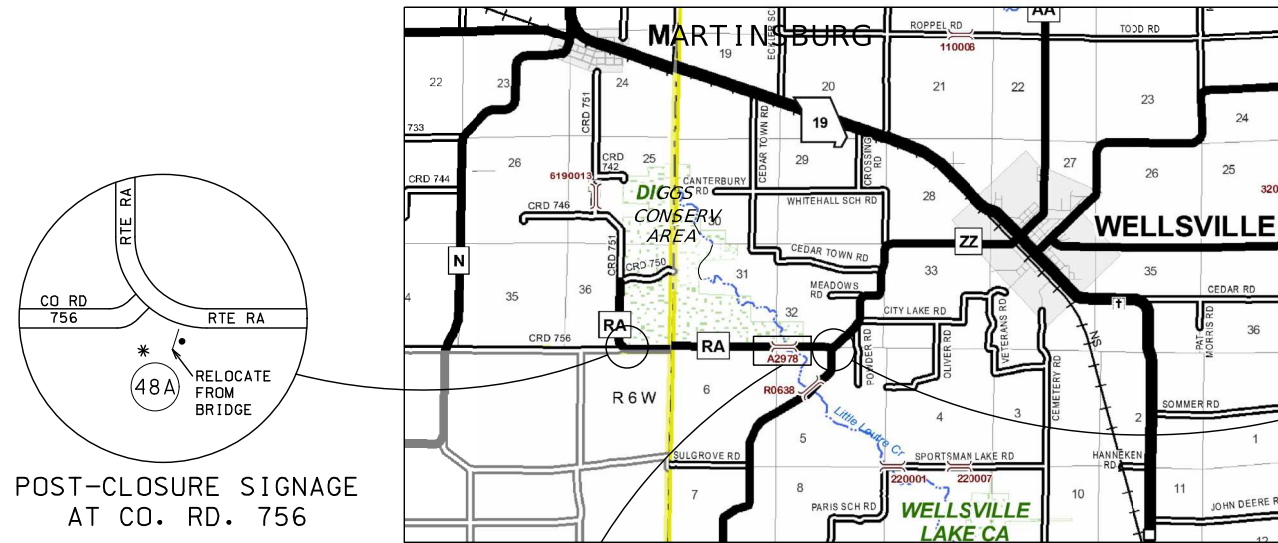
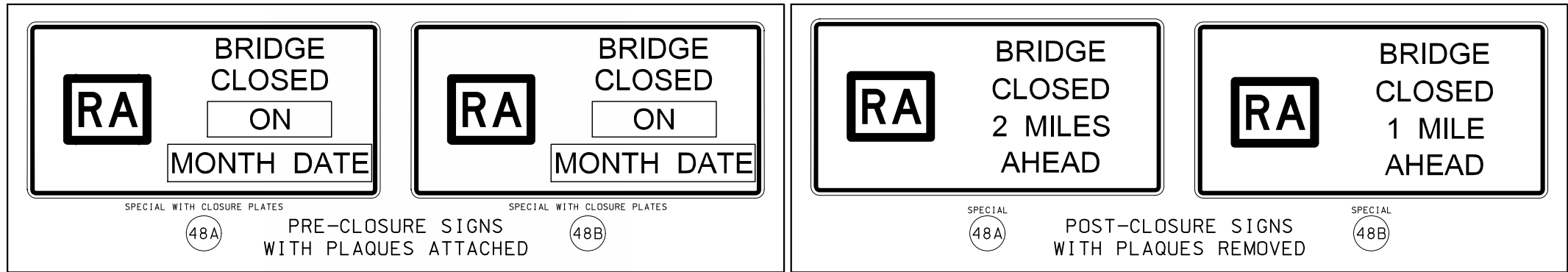
DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SPECIAL SHEET 1 OF 1
GUARDRAIL &
PAVEMENT MARKING





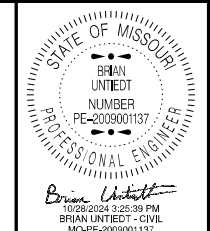
Bridge Improvements
MoDOT Fall 2024
CONST-5
60
Completed as Promised
CONST-5P-60
* EXACT LOCATION AS DETERMINED BY ENGINEER

NOTES:
INSTALL PRE-CLOSURE SIGNS WITH PLAQUES 48A & 48B A MINIMUM OF 2 WEEKS PRIOR TO CLOSURE.
WHEN BRIDGE CLOSURE OCCURS - REMOVE SPECIAL SIGN PLAQUES AND RELOCATE NOTED SIGNS.
SEE TRAFFIC CONTROL SHEET 2 OF 2 FOR SPECIAL SIGN AND PLAQUE DETAILS.
ALL SIGNS SHALL BE SPACED AT 500 FEET UNLESS OTHERWISE NOTED.
* LOCATE SIGNS 100' FROM INTERSECTION.
USE IN PLACE ALL SIGNS WHICH DO NOT CONFLICT WITH THIS PLAN. COVER OR REMOVE CONFLICTING SIGNS.
PLACE ALL SIGNS AS SHOWN OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL LEGEND

•	SIGN (SINGLE SIDED)
E	TYPE III MOVABLE BARRICADE

NOTE: DRAWING NOT TO SCALE.

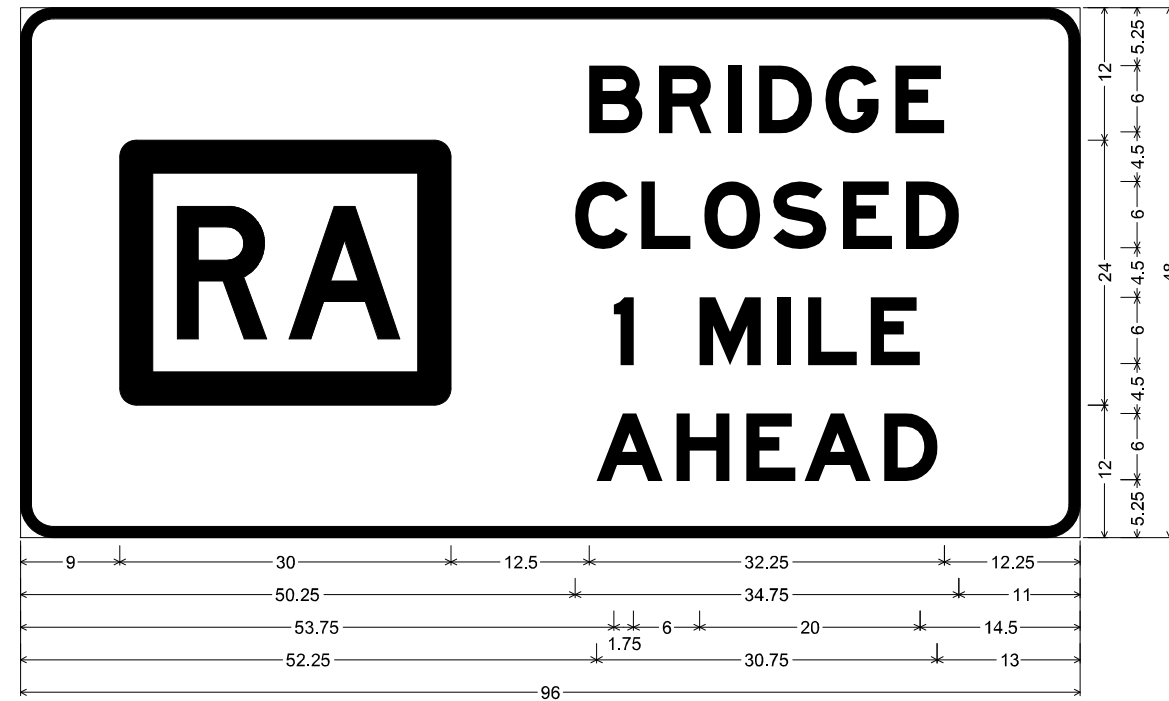
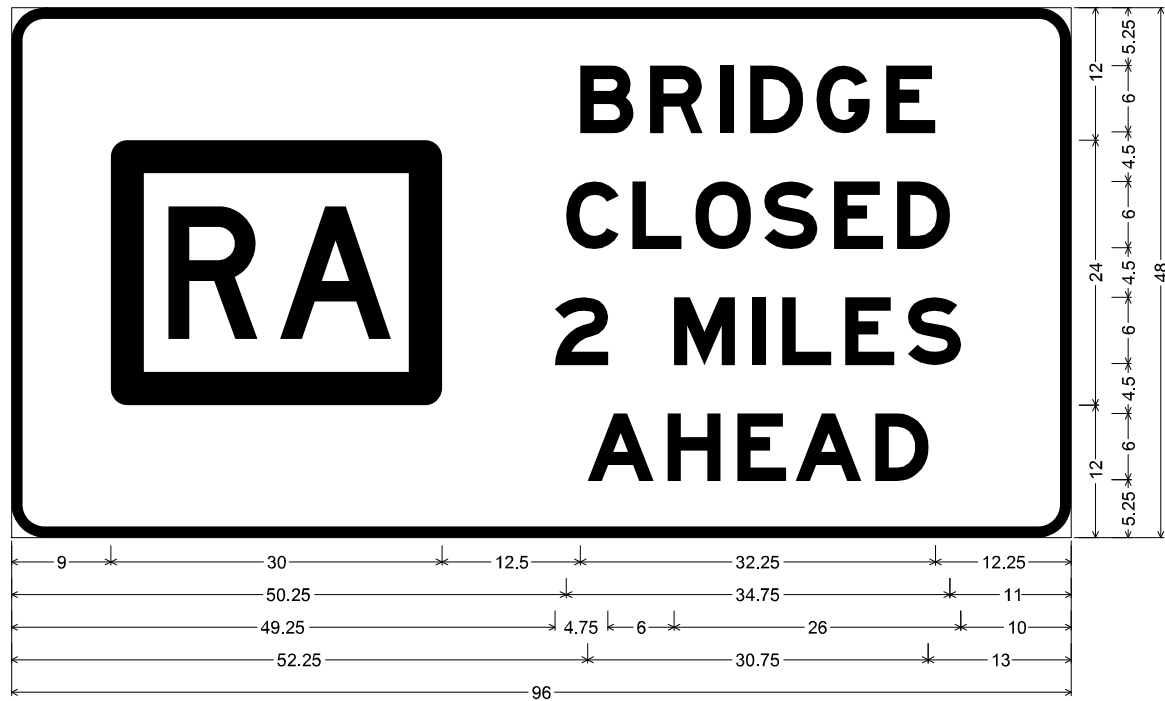


STATE OF MISSOURI
DATE PREPARED 10/24/2024
ROUTE RA STATE MO
DISTRICT NE SHEET NO. 5
COUNTY MONTGOMERY
JOB NO. JNE0123
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

TRAFFIC CONTROL SHEET 1 OF 2

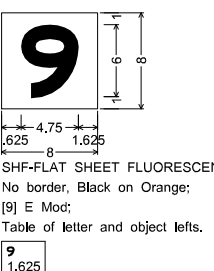
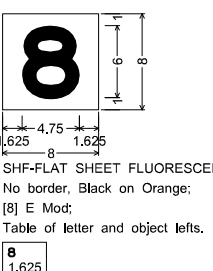
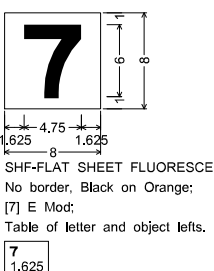
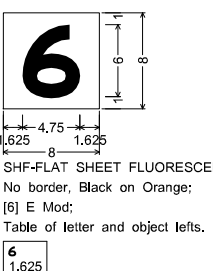
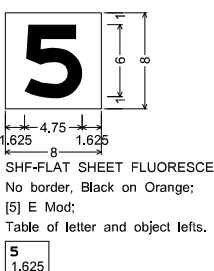
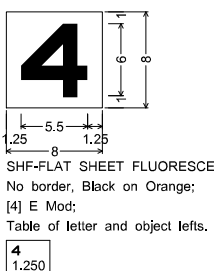
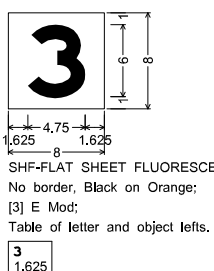
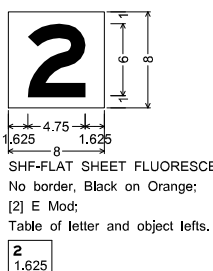
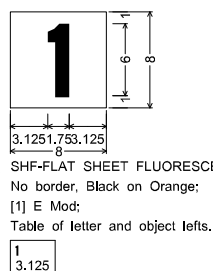
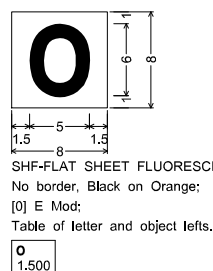
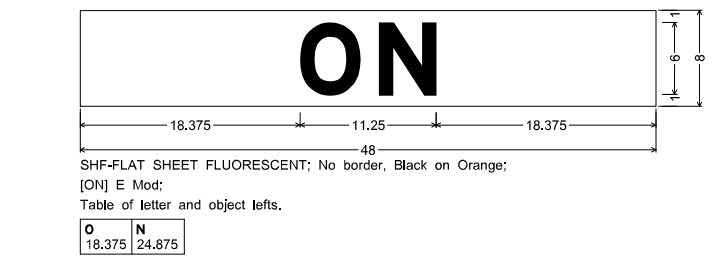
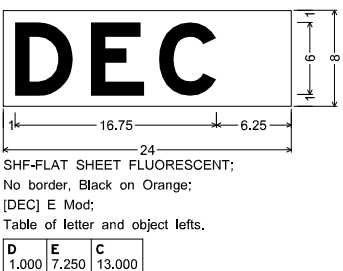
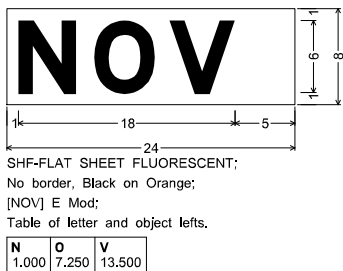
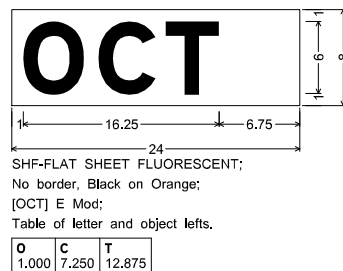
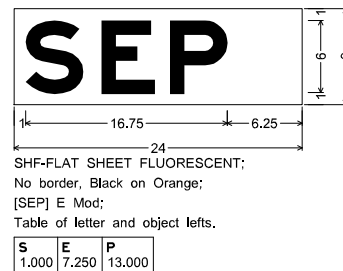
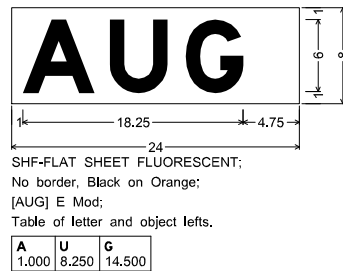
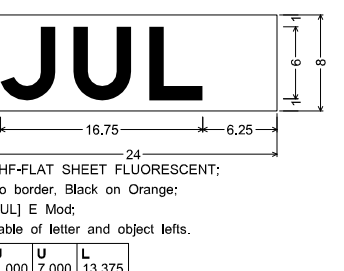
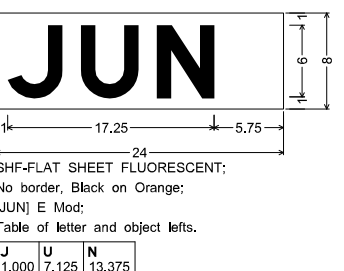
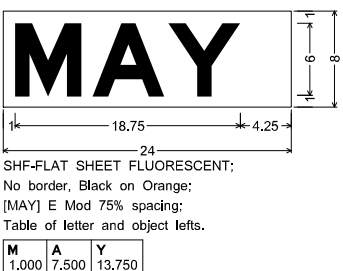
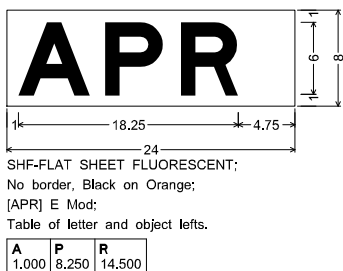
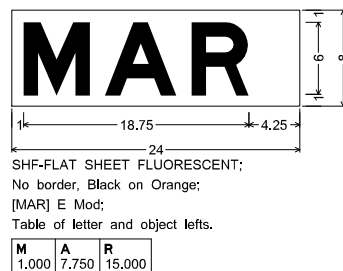
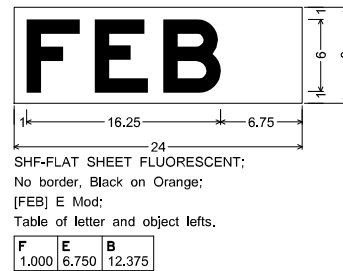
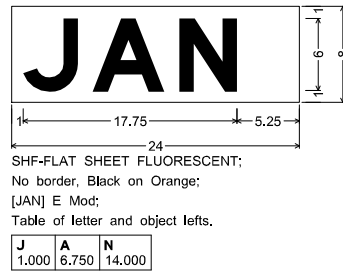


MO4-13 SHF-FLAT SHEET FLUORESCENT;
 3,000" Radius, 1,000" Border, Black on, Orange;
 "BRIDGE", E Mod; "CLOSED", E Mod; "2 MILES", E Mod; "AHEAD", E Mod;
 Table of letter and object lefts

RA	B	R	I	D	G	E
9.000	51.500	57.875	64.125	66.875	72.875	79.250
C	L	O	S	E	D	
50.250	56.250	62.000	68.250	74.500	80.250	
2	M	I	L	E	S	
49.250	60.000	67.125	69.875	75.500	81.250	
A	H	E	A	D		
52.250	59.375	65.750	71.000	78.250		

MO4-13 SHF-FLAT SHEET FLUORESCENT;
 3,000" Radius, 1,000" Border, Black on, Orange;
 "BRIDGE", E Mod; "CLOSED", E Mod; "1 MILE", E Mod; "AHEAD", E Mod;
 Table of letter and object lefts

RA	B	R	I	D	G	E
9.000	51.500	57.875	64.125	66.875	72.875	79.250
C	L	O	S	E	D	
50.250	56.250	62.000	68.250	74.500	80.250	
1	M	I	L	E		
53.750	61.500	68.625	71.375	77.000		
A	H	E	A	D		
52.250	59.375	65.750	71.000	78.250		



DATE PREPARED
 10/24/2024
 ROUTE STATE
 RA MO
 DISTRICT SHEET NO.
 NE 6
 COUNTY
 MONTGOMERY
 JOB NO.
 JNE0123
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.

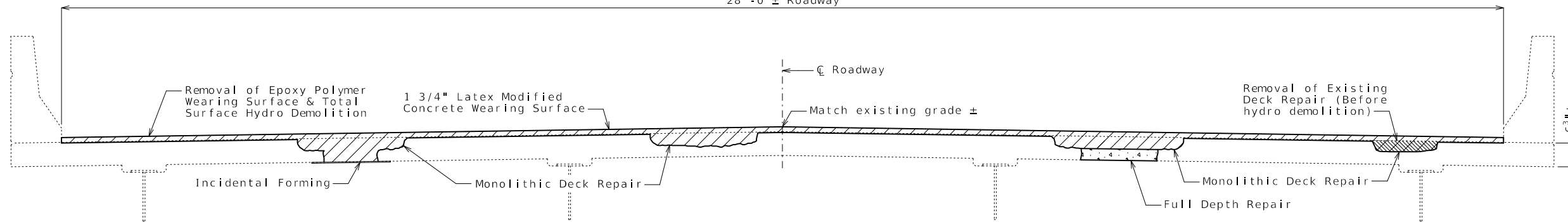
DESCRIPTION	DATE

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

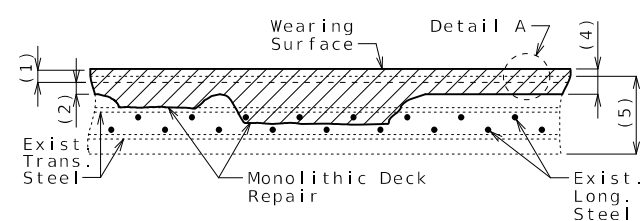
TRAFFIC CONTROL SHEET 2 OF 2

U.I.P. AND REHABILITATE EXISTING (40'-50'-40') CONTINUOUS COMPOSITE WIDE FLANGE BEAM SPANS
(SKEW: 15° R.A.)

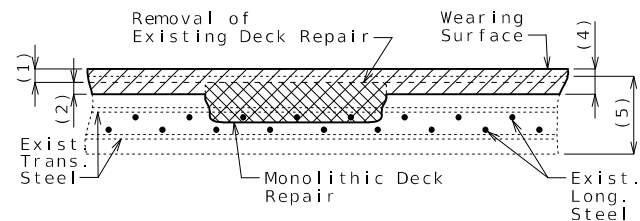
28'-0"± Roadway



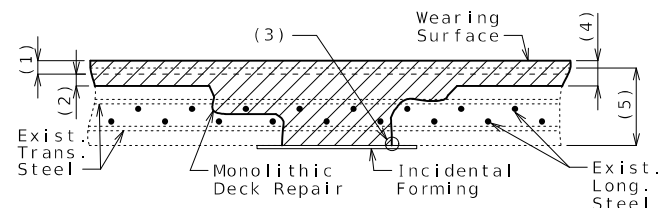
TYPICAL SECTION THRU EXISTING DECK



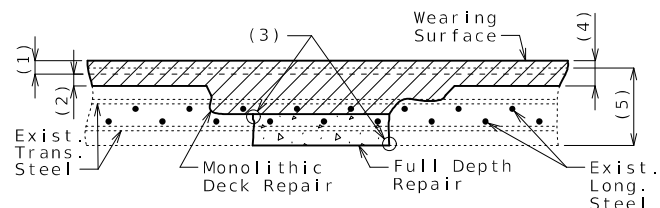
MONOLITHIC DECK REPAIR



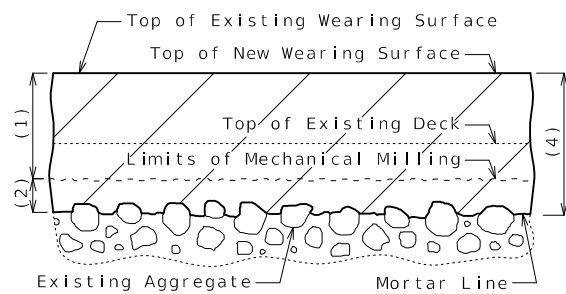
REMOVAL OF EXISTING DECK REPAIR BEFORE HYDRO DEMOLITION



MONOLITHIC DECK REPAIR REQUIRING INCIDENTAL FORMING

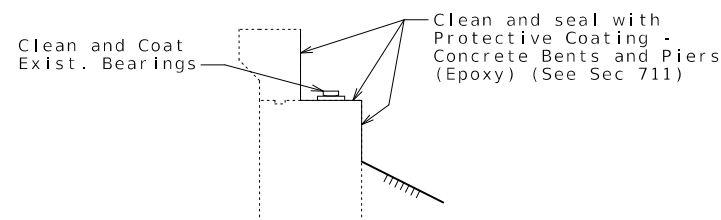


MONOLITHIC DECK REPAIR REQUIRING FULL DEPTH REPAIR



DETAIL A

- (1) Removal of existing 1/4"± epoxy polymer wearing surface and 1/2"± cinder seal plus 1/2" of existing deck
- (2) 1/2" minimum total surface hydro demolition of sound concrete, measured to mortar line
- (3) 1" vertical side shall be established outside the deteriorated area.
- (4) 1 3/4" minimum latex modified concrete wearing surface
- (5) Original depth of deck



TYPICAL SECTION THRU END BENTS NO. 1 & 4 SHOWING PROTECTIVE COATING

(End Bent No. 1 shown, End Bent No. 4 similar)

Estimated Quantities		
Item		Total
Total Surface Hydro Demolition	sq. yard	416
Removal of Seal Coat or Polymer Wearing Surface	sq. foot	3741
Removal of Existing Deck Repair	sq. foot	50
* Supplementary Wearing Surface Material	cu. yard	5
Latex Modified Concrete Wearing Surface	sq. yard	416
Diamond Grinding	sq. yard	416
Full Depth Repair	sq. foot	50
Protective Coating - Concrete Bents and Piers (Epoxy)	lump sum	1
Cleaning and Coating Existing Bearings	each	8

* Supplementary wearing surface material for monolithic deck repair will be paid for at the fixed unit price in accordance with Sec 109.

General Notes:

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

Design Loading:
H15-44 (1969), HS20-44 (New Construction)

Design Unit Stresses:
Class B-2 Concrete (Full Depth Repair) f'c = 4,000 psi

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

All concrete repairs shall be in accordance with Sec 704, unless otherwise noted.

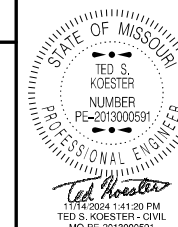
Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

In order to maintain grade and a minimum thickness of wearing surface as shown on plans it may be necessary to use additional quantities of wearing surface at various locations throughout the structure. The cost of furnishing and installing the wearing surface will be considered completely covered in the contract unit price, including all additional labor, materials or equipment for variations in thickness of wearing surface.

Traffic Handling:
Structure to be closed during construction. Traffic to be maintained on other routes during construction. See roadway plans for traffic control.

REPAIRS TO BRIDGE: ROUTE RA OVER LITTLE LOU TRE CREEK

ROUTE RA FROM ZZ TO END OF STATE MAINTENANCE ABOUT 0.5 MILE WEST OF ROUTE ZZ
BEGINNING STATION 56+34.00± (Match Existing)



DATE PREPARED
11/14/2024

ROUTE RA STATE MO
DISTRICT BR SHEET NO. 1

COUNTY
MONTGOMERY

JOB NO.
JNE0123
CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A29782

DATE	DESCRIPTION

