

ANDREW CO.			
A.A.D.T. - 2024 =	RTE		511
A.A.D.T. - 2024 =	RTE		600
A.A.D.T. - 2024 =	RTE		163
A.A.D.T. - 2024 =	RTE		180

BUCHANAN CO.			
A.A.D.T. - 2024 =	RTE	H	393
A.A.D.T. - 2024 =	MO	116	845
A.A.D.T. - 2024 =	RTE	M	64
A.A.D.T. - 2024 =	RTE	DD	128
A.A.D.T. - 2024 =	RTE	P	400

CLINTON CO.
A.A.D.T. - 2024 = RTE **NN** 266

DEKALB CO.

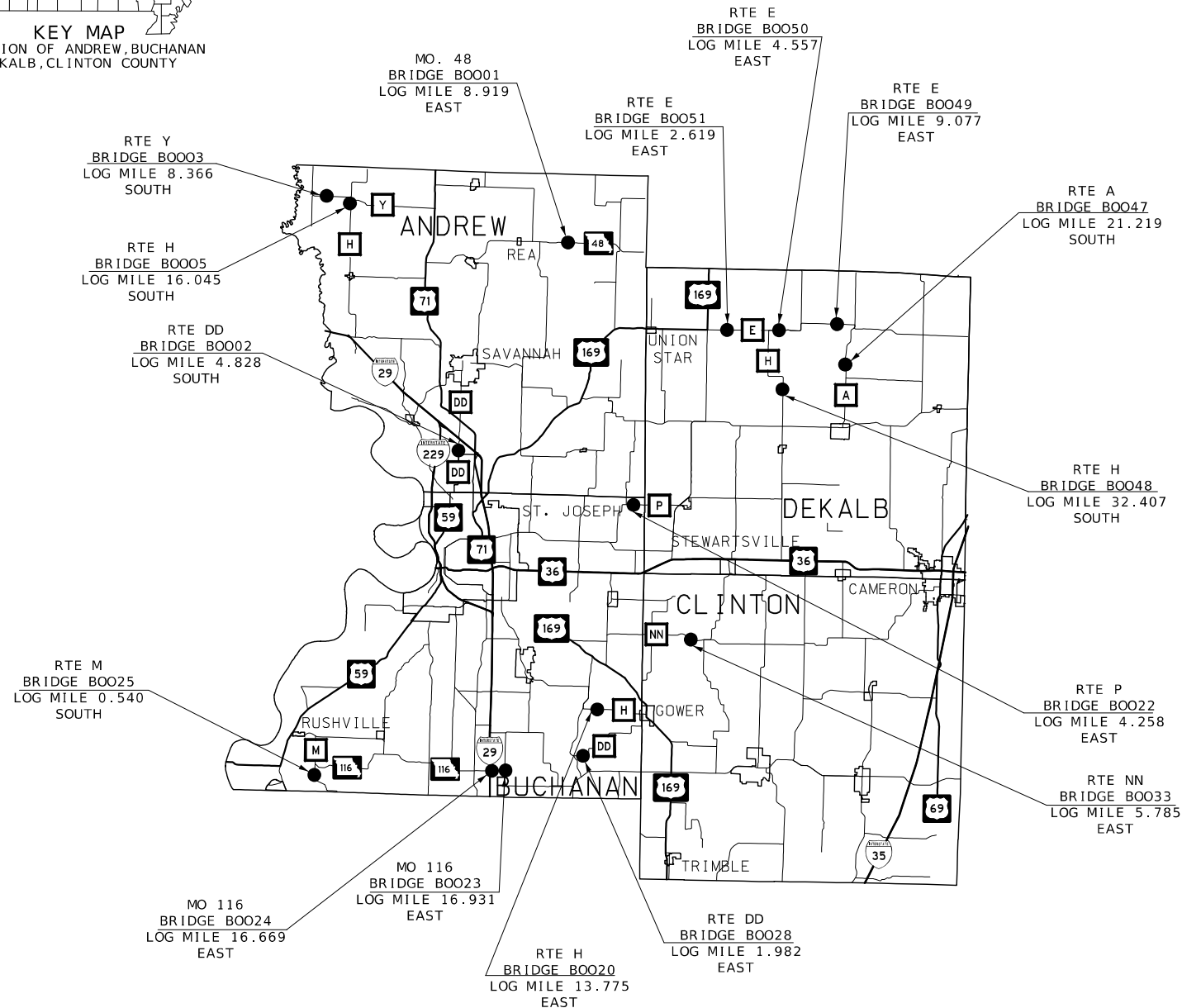
A.A.D.T. - 2024 = RTE	A	420
A.A.D.T. - 2024 = RTE	E	136
A.A.D.T. - 2024 = RTE	H	13

NO RIGHT-OF-WAY ACQUIRED

BUILDINGS AND STRUCTURES
GUARD RAIL
GUARD CABLE
CONCRETE RIGHT-OF-WAY MARKER
STEEL RIGHT-OF-WAY MARKER
LOCATION SURVEY MARKER
UTILITIES
FIBER OPTICS
OVERHEAD CABLE TV
UNDERGROUND CABLE TV
OVERHEAD TELEPHONE
UNDERGROUND TELEPHONE
OVERHEAD POWER
UNDERGROUND POWER
SANITARY SEWER
STORM SEWER
GAS
WATER

NOTE: DASHED OR OPEN SYMBOLS INDICATE
EXISTING FEATURES

KEY MAP 
LOCATION OF ANDREW, BUCHANAN
DEKALB, CLINTON COUNTY



● — BRIDGES

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.

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

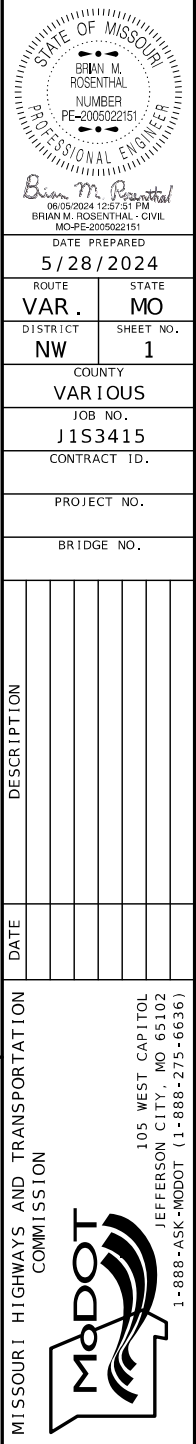
ANDREW CO		
BRIDGE B0001.....	109.00	FEET
BRIDGE B0002.....	134.12	FEET
BRIDGE B0003.....	83.5	FEET
BRIDGE B0005.....	129.18	FEET
APPARENT LENGTH	455.80	FEET

BUCHANAN CO.		
BRIDGE B0020.....	78.33	FEET
BRIDGE B0022.....	139.13	FEET
BRIDGE B0023.....	88.5	FEET
BRIDGE B0024.....	124.20	FEET
BRIDGE B0025.....	133.57	FEET
BRIDGE B0028.....	88.39	FEET
APPARENT LENGTH	652.12	FEET

CLINTON CO.
BRIDGE B0033.....83.60 FEET
APPARENT LENGTH 83.60 FEET

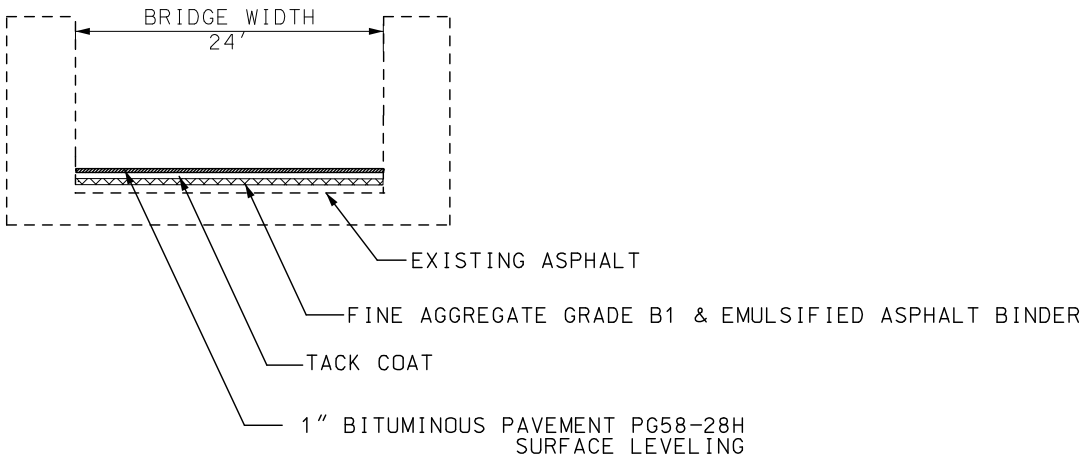
DEKALB CO.		
BRIDGE B0047.....	139.13	FEET
BRIDGE B0048.....	69.0	FEET
BRIDGE B0049.....	98.5	FEET
BRIDGE B0050.....	158.87	FEET
BRIDGE B0051.....	88.4	FEET
APPARENT LENGTH	553.9	FEET

TOTAL CORRECTIONS	0.0	FEET
NET LENGTH OF PROJECT	1745.42	FEET
STATE LENGTH	0.331	MILES
FOR INFORMATION ONLY		
ESTIMATED DISTURBED ACRES	0	ACRES



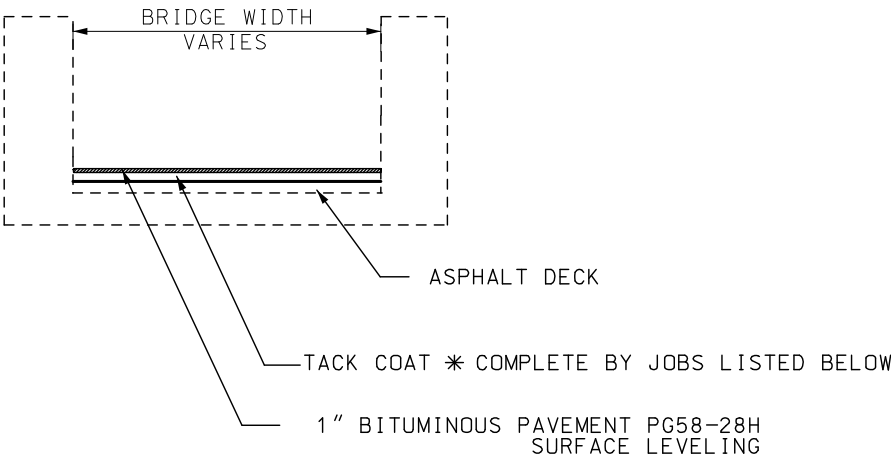
ESTIMATE FACTORS	
SEAL COAT	0.38 GAL./S.Y.
TACK COAT	0.08 GAL./S.Y.
BITUMINOUS PAVEMENT	
PG-58-28H SURFACE LEVELING	1.96 TON/C.Y. *
PERMANENT AGGREGATE EDGE TREATMENT ...	1.60 TON./C.Y.

* INFORMATION ONLY



PROPOSED BRIDGE TYPICAL SECTION
VARIOUS LOCATION

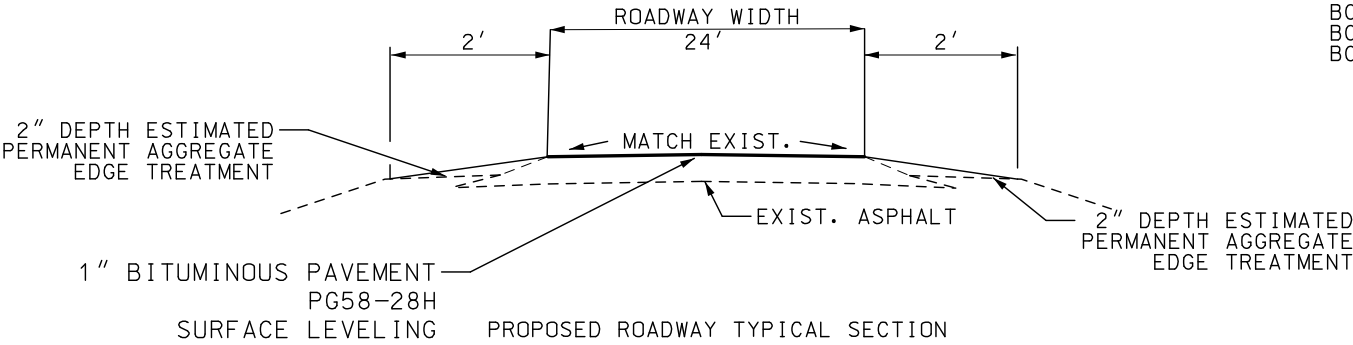
BRIDGE NO.
B0002
B0020
B0022
B0025
B0028



EXISTING BRIDGE TYPICAL SECTION
VARIOUS LOCATION

BRIDGES RESURFACED IN JOB NUMBERS LISTED BELOW

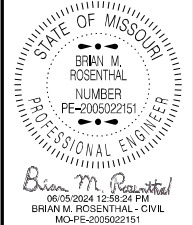
BRIDGE NO.
B0001 (J1S3324)
B0003 (JNW0028)
B0005 (JNW0028)
B0023 (JNW0035)
B0024 (JNW0035)
B0033 (JNWM0052)
B0047 (JST0048)
B0048 (JST0048)
B0049 (JST0048)
B0050 (JST0048)
B0051 (JST0048)



BRIDGE NO.
B0002
B0020
B0022
B0025
B0028

NOT TO SCALE

TYPICAL SECTION
SHEET 1 OF 1



DATE PREPARED 6/5/2024	
ROUTE VAR.	STATE MO
DISTRICT NW	SHEET NO. 2
COUNTY VARIOUS	
JOB NO. J1S3415	
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)

QUANTITIES																		
BRIDGE NO.	REMARKS	LOCATION	PAY WIDTH FT.	BRIDGE LENGTH FT.	VARIABLE THICKNESS ASPHALT PAVEMENT TRANSITION FT.	TACK COAT GAL.	SEAL COAT EMULSIFIED ASPHALT BINDER GAL.	SEAL COAT FINE AGGREGATE GRADE B1 S.Y.	1" BITUMINOUS PAVEMENT MIXTURE PG58-28H SURFACE LEVELING S.Y.	1" BITUMINOUS PAVEMENT MIXTURE PG58-28H SURFACE LEVELING TONS	TRAFFIC BARRIER DELINEATOR WHITE EACH	GUARDRAIL DELINEATOR WHITE EACH	PERMANENT AGGREGATE EDGE TREATMENT TONS	BRUSH CUTTING & STUMP PAINTING * ACRE	CLASS A EXCAVATION C.Y.	PERMANENT EROSION CONTROL GEOTEXTE S.Y.	FURNISHING TYPE 2 ROCK BLANKET ** C.Y.	PLACING TYPE 2 ROCK BLANKET C.Y.
B0001	EBL & WBL	MO. 48 (ASNDREW CO.)	28	109.13							12	2		0.11				
B0002	NBL & SBL	RTE DD (ANDREW CO.)	24	134.12	50	49.95	135.91	357.65	624.31	33.98	12	4	3.93	0.14				
B0003	NBL & SBL	RTE Y (ANDREW CO.)	24	83.50							8			0.08				
B0005	NBL & SBL	RTE H (ANDREW CO.)	24	129.18							12			0.13				
B0020	EBL & WBL	RTE H (BUCHANAN CO.)	24	78.33	50	38.04	79.37	208.88	475.54	25.88	8		3.93	0.08				
B0022	EBL & WBL	RTE P (BUCHANAN CO.)	24	139.13	50	51.01	140.99	371.01	637.67	34.70	12	2	3.93	0.14				
B0023	EBL & WBL	RTE 116 (BUCHANAN CO.)	24	88.5							8	4		0.09				
B0024	EBL & WBL	RTE 116 (BUCHANAN CO.)	24	124.2							12	4		0.13	68.15	97.78	68.15	68.15
B0025	SBL & NBL	RTE M (BUCHANAN CO.)	24	133.57	50	49.83	135.35	356.19	622.85	33.90	12		3.93	0.13				
B0028	EBL & WBL	RTE DD (BUCHANAN CO.)	24	88.39	50	40.19	89.57	235.71	502.37	27.34	8		3.93	0.09				
B0033	EBL & WBL	RTE NN (CLINTON CO.)	27	83.6							8			0.09				
B0047	NBL & SBL	RTE A (DEKALB CO.)	26	139.13							12	4		0.15				
B0048	NBL & SBL	RTE H (DEKALB CO.)	24	69							8			0.07				
B0049	EBL & WBL	RTE E (DEKALB CO.)	24	98.5							8			0.10				
B0050	EBL & WBL	RTE E (DEKALB CO.)	24	158.87							12			0.16				
B0051	EBL & WBL	RTE E (DEKALB CO.)	24	88.4							8			0.09				
TOTALS						229.02	581.19	1529.44	2862.74	155.80	160.00	20.00	19.65	1.78	68.15	97.78	68.15	68.15
PAYTOTALS						229	581	1529	2863	INFORMATION ONLY	160.0	20.0	19.7	LUMP SUM 1	68.0	98.0	68.0	68.0
** ROCK BLANKET REPAIR TO EXTEND FROM WATER LINE (OHW)TO BENT 3 (23' X 40' WIDE) EXCAVATION REQUIRED. * BRUSH CUTTING & STUMP PAINTING CALCULATIONS TO INCLUDE BRIDGE WIDTH PLUS 10' ON EACH SIDE OF BRIDGE BY BRIDGE LENGTH MINUS STREAM BED.																		

TYPE III OBJECT MARKERS								
BRIDGE NO.	LOCATION	FLAT SHEET FLOURESCENT (BLACK ON YELLOW) (12 IN X 36 IN)			2 IN PERFORATED SQUARE STEEL TUBE POST			
		NUMBER OF EACH		ITEM NO. 9035069A	NUMBER OF POSTS	AVERAGE POST LENGTH	2 IN X 2 IN 12 GA POSTS	3 FT ANCHOR 12 GAUGE
		OM3-L	OM3-R	S.F.		L.F.	ITEM NO. 9031270A L.F.	ITEM NO. 9031271A EACH
B0001	RTE 48 (ANDREW CO)	6		18	6	10.5	63	6
B0003	RTE Y (ANDREW CO.)	6	6	36	12	10.5	126	12
B0005	RTE H (ANDREW CO.)	6	6	36	12	10.5	126	12
B0020	RTE H (BUCHANAN CO.)	6	6	36	12	10.5	126	12
B0022	RTE P (BUCHANAN CO.)	6		18	6	10.5	63	6
B0025	RTE M (BUCHANAN CO.)	6	6	36	12	10.5	126	12
B0028	RTE DD (BUCHANAN CO.)	6	6	36	12	10.5	126	12
B0033	RTE NN (CLINTON CO.)	6	6	36	12	10.5	126	12
B0048	RTE H (DEKALB CO.)	6	6	36	12	10.5	126	12
B0049	RTE E (DEKALB CO.)	6	6	36	12	10.5	126	12
B0050	RTE E (DEKALB CO.)	6	6	36	12	10.5	126	12
B0051	RTE E (DEKALB CO.)	6	6	36	12	10.5	126	12
TOTALS		72	60	396			1386	132
PAYTOTALS				396			1386	132

NOTE :
ALL TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01 TEMPORARY TRAFFIC CONTROL. THESE QUANTITIES ARE ONLY AN ESTIMATE AND ARE SUBJECT TO CHANGE BASED UPON FIELD CONTITIONS.

NO DIRECT PAY WILL BE MADE FOR RELOCATION OF CONSTRUCTION SIGNS OR DEVICES.

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
W020-3	48X48	16.00	6	96			2	
W020-4	48X48	16.00	6	96			7	
W020-7a	48x48	16.00	6	96			8	
W021-5	48x48	16.00	6	96			21	
ITEM NUMBER	TOTAL QTY	DESCRIPTION						
6161025	90	CHANNELIZER (TRIM LINE)						
PAY TOTAL								
TRAFFIC CONTROL LUMP SUM = 1								
FOR INFORMATION ONLY (3 BRIDGE LOCATION SETUPS)								

MOBILIZATION
LUMP SUM 1

REMOVAL OF IMPROVEMENTS		
TYPE III OBJECT MARKERS & GUARDRAIL DELINEATOR		
BRIDGE NO.	TYPE III MARKERS EACH	GUARDRAIL DELINEATOR EACH
B0001	6	
B0002		4
B0003	12	
B0005	12	
B0020	12	
B0022	6	8
B0023		10
B0024		10
B0025	12	
B0028	12	
B0033	12	
B0047		6
B0048	12	
B0049	12	
B0050	12	
B0051	12	
LUMP SUM 1		

STATE OF MISSOURI

BRIAN M. ROSENTHAL

NUMBER PE-2005022151

PROFESSIONAL ENGINEER

Brian M. Rosenthal

06/20/2024 12:24:11 PM

BRIAN M. ROSENTHAL - CIVIL

MO-PE-2005022151

DATE PREPARED
6/20/2024

ROUTE VAR. STATE MO

DISTRICT NW SHEET NO. 3

COUNTY
VARIOUS

JOB NO.
J153415

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)

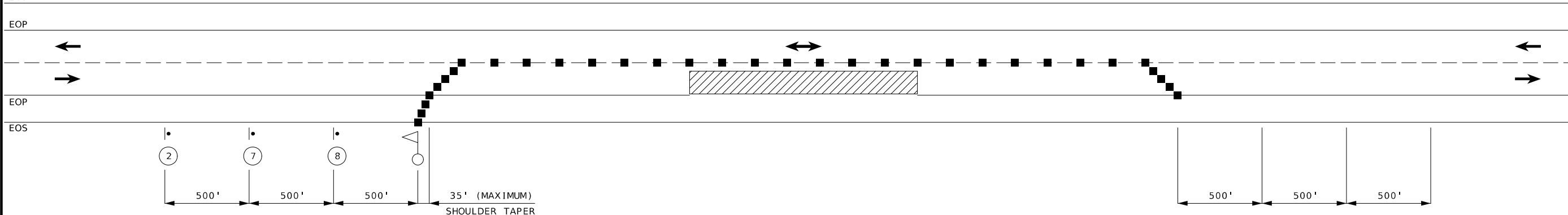
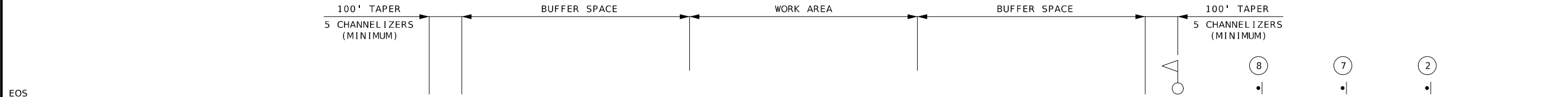
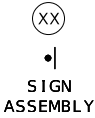
MoDOT

NOTES:
SIGN SPACING MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.
MIRROR TRAFFIC CONTROL SET UP FOR WORK IN THE OPPOSITE DIRECTION

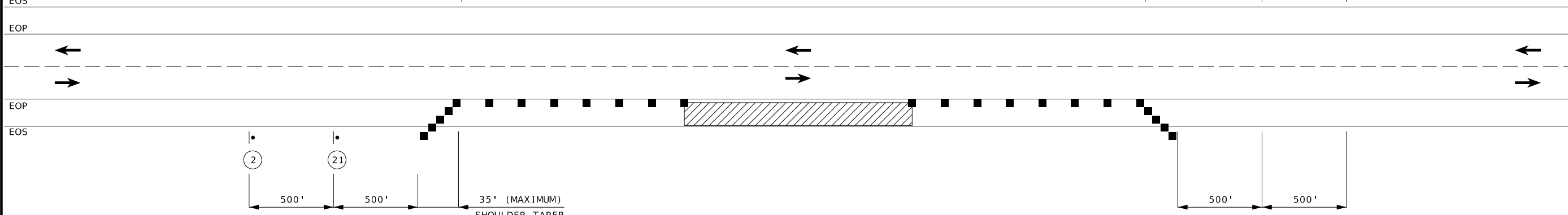
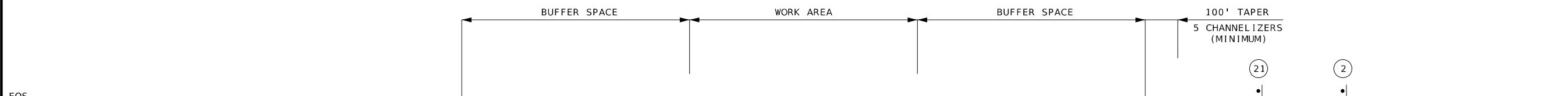
SPEED	SIGN SPACING (FT)	TAPER LENGTH (FT)		RECOMMENDED	CHANNELIZER SPACING (FT)	
PERMANENT POSTED (MPH)	UNDIVIDED	SHOULDER	LANE	BUFFER LENGTH (FT)	TAPERS	BUFFER/ WORK AREA
50-55	500	35	100	495	25	80
60-70	1000	35	100	730	25	120



BRIDGE
OR
RAMP



STATIONARY LANE CLOSURE



STATIONARY SHOULDER CLOSURE

NOT TO SCALE

STATE OF MISSOURI

BRIAN M. ROSENTHAL

NUMBER

PE-2005022151

PROFESSIONAL ENGINEER

Brian M. Rosenthal

08/05/2024 12:59:54 PM

BRIAN M. ROSENTHAL - CIVIL

MO-PE-2005022151

DATE PREPARED

5/30/2024

ROUTE

VAR.

DISTRICT

NW

STATE

MO

SHEET NO.

5

COUNTY

VARIOUS

JOB NO.

J153415

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

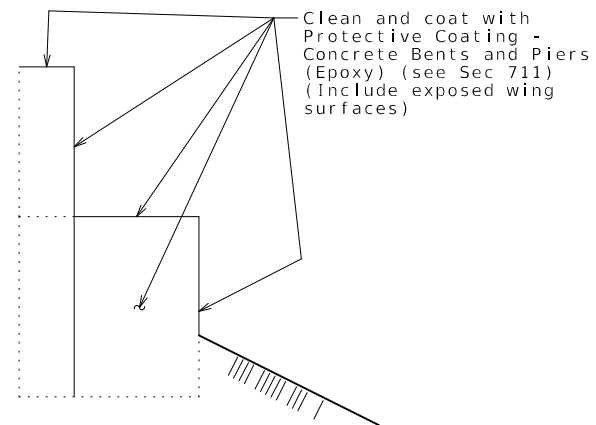
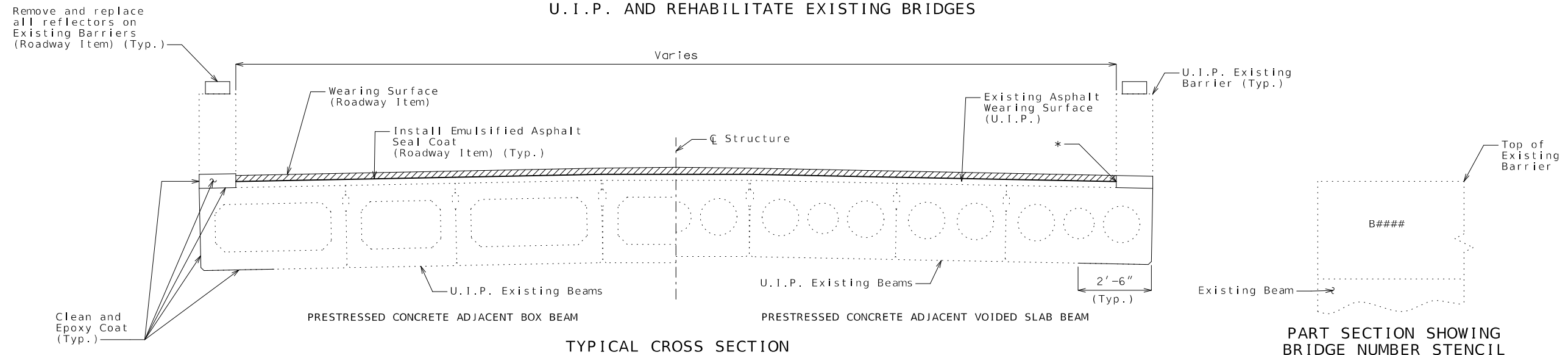
JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

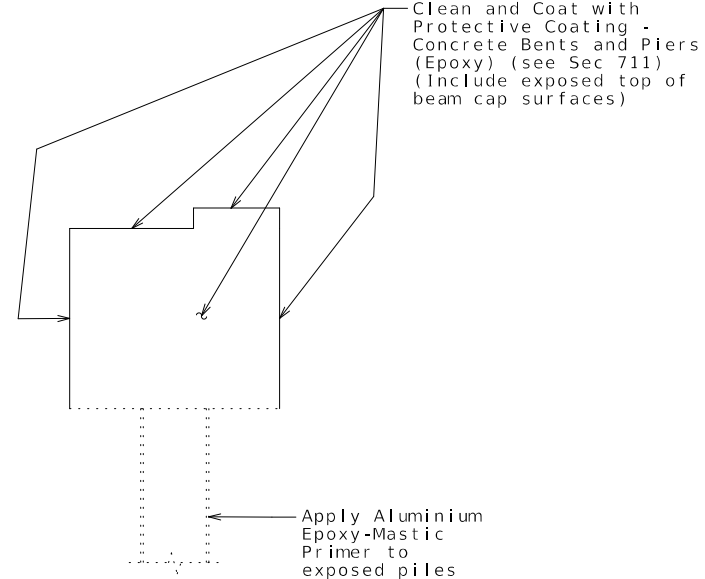
MODOT

REV.

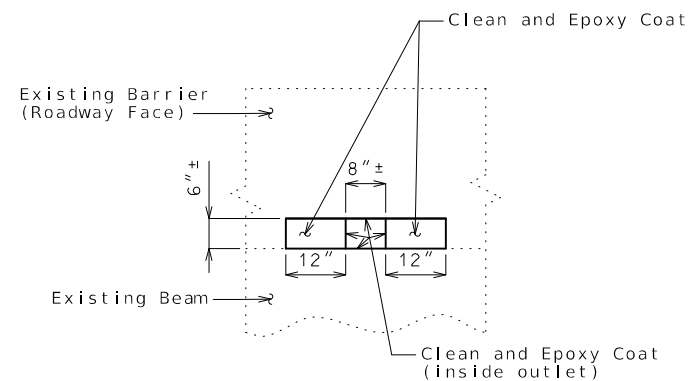
U.I.P. AND REHABILITATE EXISTING BRIDGES



TYPICAL SECTION THRU
END BENTS SHOWING
PROTECTIVE COATING



TYPICAL SECTION AT
INTERMEDIATE BENTS SHOWING
PROTECTIVE COATING AND
ALUMINUM EPOXY-MASTIC PRIMER
(H-piles shown, steel pipe piles similar)



PART ELEVATION SHOWING CLEANING AND
EPOXY COATING AT BARRIER OUTLETS

Notes:
Exterior beam epoxy coating not shown for clarity.

General Notes:

Design Specifications:
2020 AASHTO LRFD Bridge Design Specifications (9th Ed.)
2002 AASHTO LFD (17th Ed.) Standard Specifications

Design Loading:
 Vehicular = HS20-44
 Future Wearing Surface = 35 lb/sf
 Earth = 120 lb/cf
 Equivalent Fluid Pressure = 45 lb/cf (Min.)

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

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

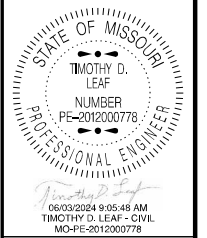
Cost of labor and materials for stenciling a bridge number will be considered completely covered by the other items.

New wearing surface material shall be tapered at barrier drain outlets
*to keep existing opening from plugging (Typ.).

Existing concrete traffic barrier delineators shall be removed and replaced on top of the existing barriers as shown on Missouri Standard Plans 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides (Roadway Item).

For Bridge Location Data and General Quantities see Sheet No. 2.

All exposed surfaces of the existing structural steel piles shall be recoated with one 6-mil thickness of Aluminum Epoxy-Mastic Primer applied over an SSPC-SP3 surface preparation in accordance with Sec 1081. The bituminous coating shall be applied one foot above and below 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 Aluminum Epoxy-Mastic Primer and bituminous coating will be considered completely covered by the contract lump sum price for Aluminum Epoxy-Mastic Primer.



DATE PREPARED

ROUTE	STATE
VARI ES	MO

DISTRICT	SHEET NO.
BR	1

COUNTY
VARIES

JOB NO.
J1S3415

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
VARIES

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

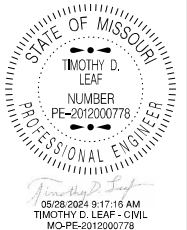
Bridge Information									
Bridge Number	County	Route	Crossing	Span Layout	Condition Rating			Roadway (ft.)	Beginning Station
					Deck	Super.	Sub.		
B00011	Andrew	48	Platte River Overflow	(55', 55') Simple PSAVSB Spans	9	9	7	28' -0" ±	99+99.70 ±
B00021	Andrew	DD	Dillon Creek	(45', 45', 45') Simple PSAVSB Spans	7	7	7	24' -0" ±	99+88.96 ±
B00031	Andrew	Y	Owl Creek	(85') Simple PSABB Span	7	7	9	24' -0" ±	100+03.00 ±
B00051	Andrew	H	Arapahoe Creek	(30', 70', 30') Simple PSAVSB Spans	7	7	7	24' -0" ±	100+04.18 ±
B00201	Buchanan	H	Wolfpen Creek	(80') Simple PSABB Span	7	7	8	24' -0" ±	99+95.60 ±
B00221	Buchanan	P	Third Fork of Platte River	(40', 60', 40') Simple PSAVSB Spans	7	7	7	24' -0" ±	99+97.00 ±
B00231	Buchanan	116	Little Bee Creek	(90') Simple PSABB Span	6	6	8	24' -0" ±	100+08.41 ±
B00241	Buchanan	116	Bee Creek	(35', 60', 30') Simple PSAVSB Spans	8	8	7	24' -0" ±	100+03.95 ±
B00251	Buchanan	M	Sugar Creek	(90', 45') Simple PSABB & PSAVSB Spans	6	6	7	24' -0" ±	99+92.86 ±
B00281	Buchanan	DD	Malden Creek	(90') Simple PSABB Span	7	7	8	24' -0" ±	99+94.68 ±
B00331	Clinton	NN	McGuire Creek Branch	(85') Simple PSABB Span	7	7	8	27' -0" ±	100+00.78 ±
B00471	Dekalb	A	East Fork Lost Creek	(40', 60', 40') Simple PSAVSB Spans	8	8	7	26' -0" ±	100+03.50 ±
B00481	Dekalb	H	Dry Branch	(70') Simple PSAVSB Span	8	8	8	24' -0" ±	99+99.25 ±
B00492	Dekalb	E	East Fork Lost Creek	(100') Simple PSABB Span	7	7	8	24' -0" ±	99+97.46 ±
B00501	Dekalb	E	Lost Creek	(90', 70') Simple PSABB & PSAVSB Spans	7	7	7	24' -0" ±	100+05.51 ±
B00511	Dekalb	E	Little Third Fork Platte River	(90') Simple PSABB Span	7	7	8	24' -0" ±	100+02.19 ±

Notes:

PSABB - Prestressed Concrete Adjacent Box Beam

PSAVSB - Prestressed Concrete Adjacent Voided Slab Beam

Estimated Quantities				
Bridge Number	Cleaning and Epoxy Coating	Protective Coating - Concrete Bents & Piers (Epoxy)	Surface Preparation for Applying Epoxy-Mastic Primer	Aluminum Epoxy-Mastic Primer
	sq. foot	lump sum	lump sum	lump sum
B00011	677	1	1	1
B00021	886	1	1	1
B00031	590	1	-	-
B00051	868	1	1	1
B00201	559	1	-	-
B00221	908	1	1	1
B00231	629	1	-	-
B00241	814	1	1	1
B00251	924	1	1	1
B00281	563	1	-	-
B00331	560	1	-	-
B00471	908	1	1	1
B00481	471	1	-	-
B00492	745	1	-	-
B00501	1100	1	1	1
B00511	629	1	-	-



DATE PREPARED
5/28/2024
ROUTE
VARIES
STATE
MO
DISTRICT
BR
SHEET NO.
2

COUNTY
VARIES
JOB NO.
J1S3415
CONTRACT ID.

PROJECT NO.

BRIDGE NO.
VARIES

DESCRIPTION	DATE						

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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