

DESIGN DESIGNATION

A.A.D.T. - 2024 = 550
 A.A.D.T. - 2044 = 950
 T = 10%
 V = 45 M.P.H.
 D = 52% (NB)

FUNCTIONAL CLASSIFICATION-MAJOR COLLECTOR

TEMPORARY EASEMENT NEEDED FOR THIS PROJECT. NO NEW RIGHT OF WAY REQUIRED.

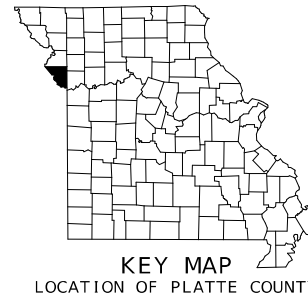
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED

STATE HIGHWAY

FINAL PLANS

PLATTE COUNTY

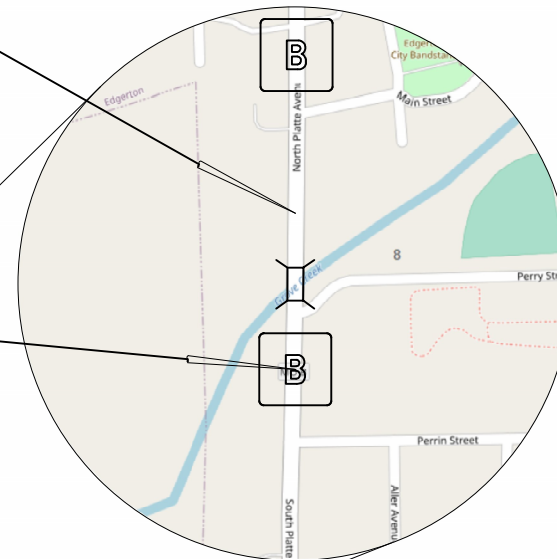


BEGIN PROJECT
 STA. 119+83.17
 SB LOG MI. 4.028

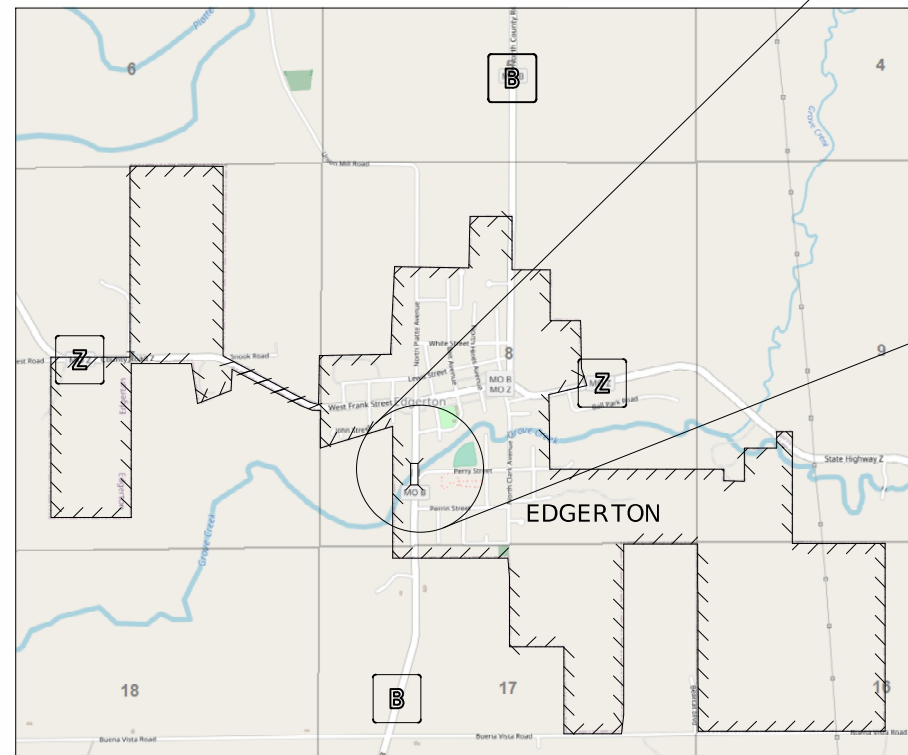
REPLACE BRIDGE R0247
 BUILD BRIDGE A9335
 ROUTE B OVER GROVE CREEK

END PROJECT
 STA. 125+62.25
 SB LOG MI. 4.138

NOT TO SCALE



R33W
 T54N



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

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REFERENCE POINTS (RP)	7
COORDINATE POINTS (CP)	7
SPECIAL SHEETS (SS)	8-9
TRAFFIC CONTROL SHEETS (TC)	10-13
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PAVEMENT MARKING (PM)	23
BRIDGE DRAWINGS (B)	
A9335	1-20
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LENGTH OF PROJECT

BEGINNING OF PROJECT STA. 119+83.17
 END OF PROJECT STA. 125+62.25

APPARENT LENGTH 579.07 FEET

EQUATIONS AND EXCEPTIONS:

TOTAL CORRECTIONS 0 FEET
 NET LENGTH OF PROJECT 579.07 FEET
 STATE LENGTH 0.104 MILES

FOR INFORMATION ONLY
 ESTIMATED DISTURBED ACRES 1.005 ACRES



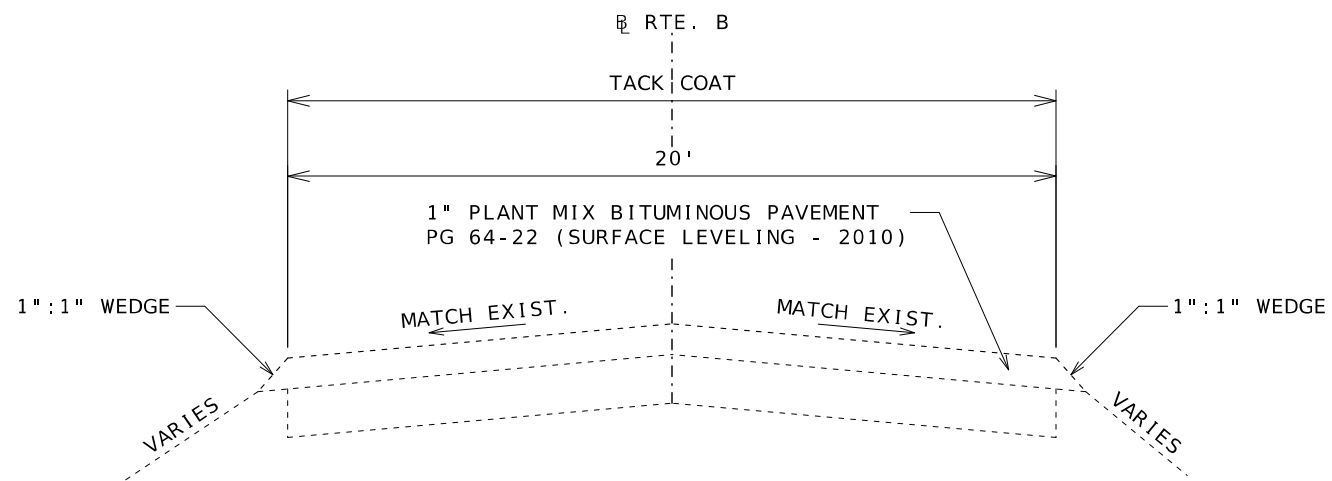
HEATHER R. BARROWS
 NUMBER PE-2016040670
 PROFESSIONAL ENGINEER
 DATE PREPARED 1/27/2025
 ROUTE B STATE MO
 DISTRICT KC SHEET NO. 1
 COUNTY PLATTE
 JOB NO. J4S3492
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO. A9335

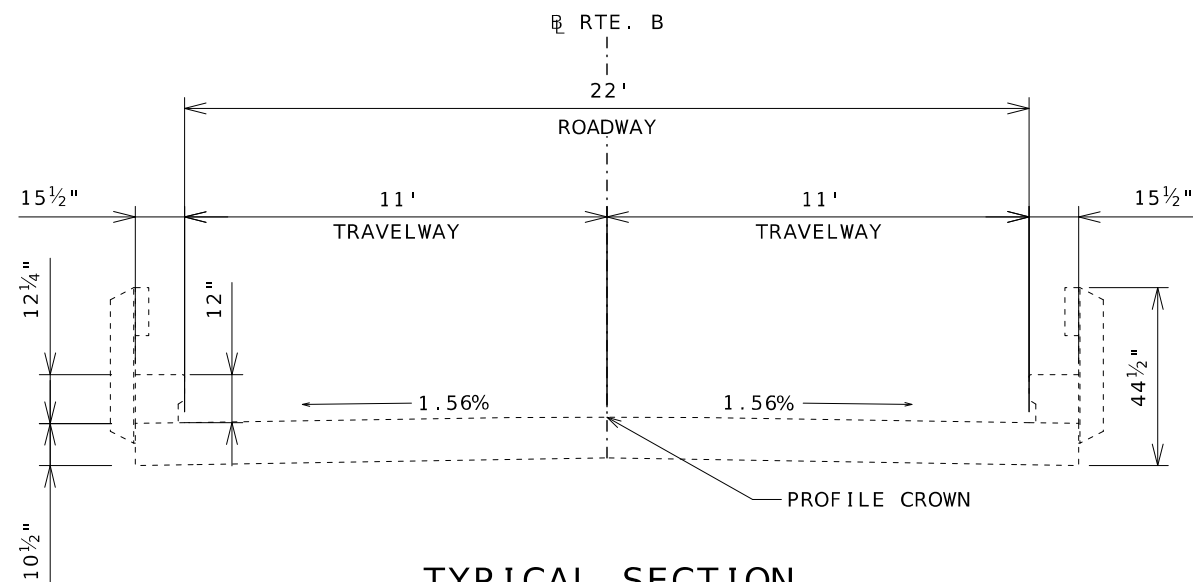
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



TYPICAL SECTION
EXISTING ROUTE B ON TANGENT
 STA. 119+83.17 TO STA. 122+33.73
 STA. 123+26.27 TO 125+62.25



TYPICAL SECTION
EXISTING BRIDGE ROUTE B
 STA. 122+33.73 TO STA. 123+26.27

NOT TO SCALE

TYPICAL SHEET
 SHEET 1 OF 3



Heather R. Barrows
 01/27/2025 3:06:58 PM
 HEATHER R. BARROWS - CHIL
 MO-PE-2016040670

DATE PREPARED
 1/27/2025

ROUTE	STATE
B	MO
DISTRICT	SHEET NO.
KC	2

COUNTY
 PLATTE

JOB NO.
 J4S3492

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
 A9335

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



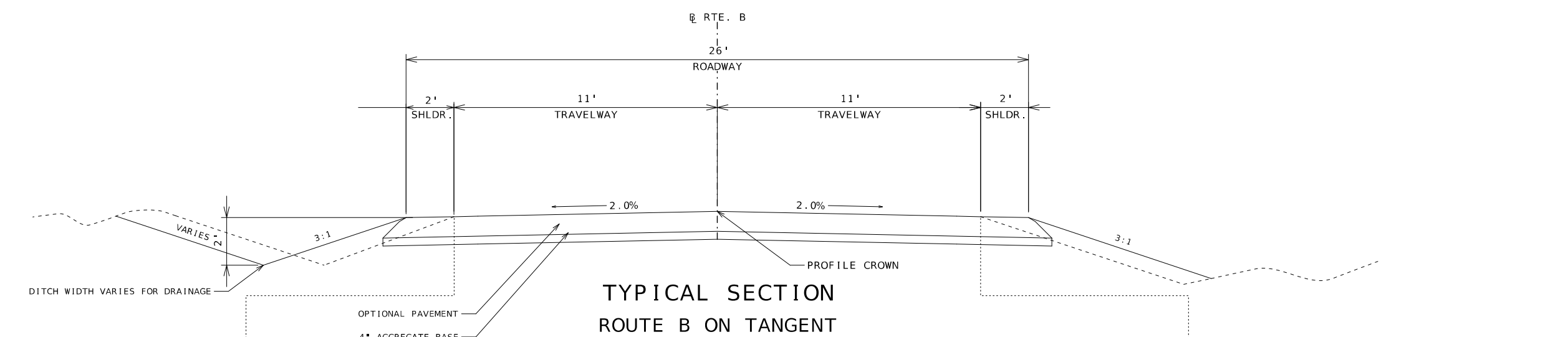
HEATHER R. BARROWS
 NUMBER PE-2016040670
 PROFESSIONAL ENGINEER

DATE PREPARED
 1/27/2025
 ROUTE B STATE MO
 DISTRICT KC SHEET NO. 2
 COUNTY PLATTE
 JOB NO. J4S3492
 CONTRACT ID.

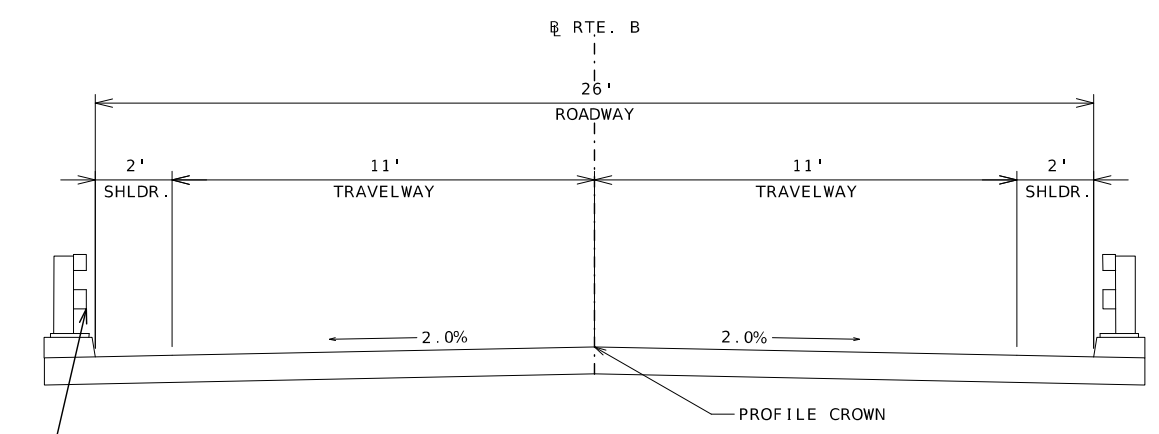
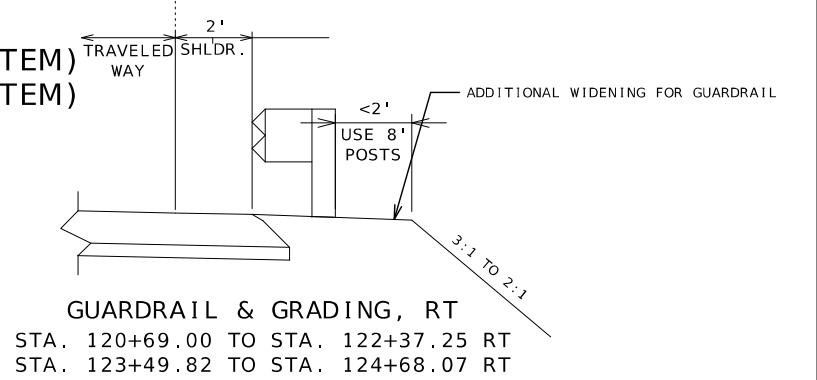
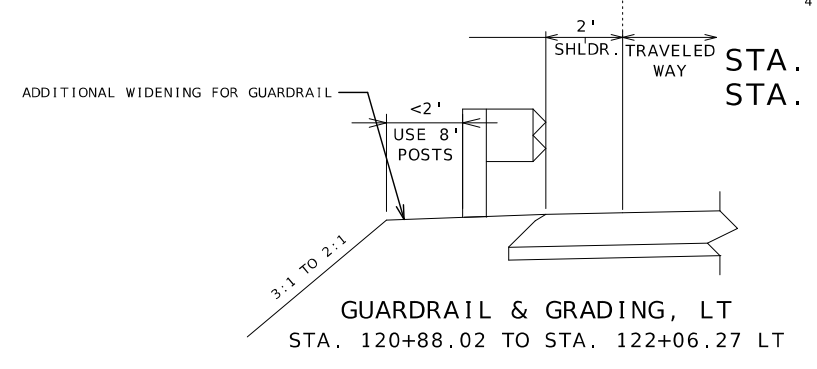
PROJECT NO.
 BRIDGE NO. A9335

DATE	DESCRIPTION

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



STA. 119+83.17 TO STA. 122+01.76
 STA. 122+01.76 TO STA. 122+21.76 (BR APPR. SLAB — BRIDGE ITEM)
 STA. 123+34.33 TO STA. 123+54.33 (BR APPR. SLAB — BRIDGE ITEM)
 STA. 123+54.33 TO 125+62.25



TYPICAL SECTION
 BRIDGE A9335
 ROUTE B
 STA. 122+21.76 TO STA. 123+34.33

FOR INFORMATION PURPOSES ONLY:

ESTIMATE FACTORS	
BP-1 w/ PG 64-22	1.998 TON/CY
BB w/ PG 64-22	2.014 TON/CY
TACK COAT	0.10 GAL/SQYD

OPTIONAL PAVEMENT:
 8" JPCP
 OVER 4" TYPE 5 AGGREGATE BASE
 OR
 10" HMA
 2" BP-1 W/ PG 64-22
 OVER 8" BB W/ PG 64-22
 OVER 4" TYPE 5 AGGREGATE BASE

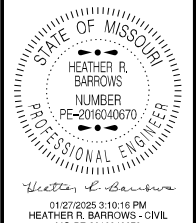
NOT TO SCALE

TYPICAL SHEET
 SHEET 2 OF 3

ADDITIONAL MOBILIZATION FOR SEEDING
PAY TOTAL = 4 EACH

NON-CONTRACTUAL
TREE CLEARING
PAY TOTAL = 1 LUMP SUM

CONTRACTOR FURNISHED SURVEYING AND STAKING
PAY TOTAL = 1 LUMP SUM



DATE PREPARED
1/27/2025
ROUTE B STATE MO
DISTRICT KC SHEET NO. 3
COUNTY PLATTE
JOB NO. J4S3492
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A9335

DRAINAGE STRUCTURES							
SHEET NO.	STATION	LOCATION	SIDE	CLASS 3 EXCAVATION CY	GROUP C 24" FLARED END SECTION EA	GROUP C 24" PIPE LF	REMARKS
4 & 8	120+41.44	ROUTE B	LT	13.3	2	23	PRIVATE DRIVE (CITY PARK)
4 & 8	120+45.04	ROUTE B	RT	17.1	2	25	PRIVATE DRIVE (LIFT STATION)
4 & 8	123+65.85	ROUTE B	LT	33.1	2	48	W PERRY STREET
4 & 9	124+31.26	ROUTE B	LT	21.1	2	32	PRIVATE DRIVE (206 N PLATTE AVE)
SUBTOTAL				84.6	8	128	
PAY TOTAL				85	8	128	

PAVEMENT MARKING							
SHEET NO.	STATION	STATION	LOCATION	4" WHITE HB WATERBORNE PAVEMENT MARKING LF	4" YELLOW HB INTERMITTENT WATERBORNE P'VMT MARKING LF	4" YELLOW HB WATERBORNE PAVEMENT MARKING LF	REMARKS
23	119+83.17	122+21.76	CL		59.65		
23	122+21.76	125+62.25	CL		85.12	340.49	
23	119+83.17	125+62.25	EOP	1,158.16			
SUBTOTAL				1,158.16	144.77	340.49	
PAY TOTAL				1,159	485		

SEEDING AND MULCH						
STATION	STATION	LOCATION	SIDE	COOL SEASON MIXTURE AC	TEMPORARY SEEDING AND MULCH AC	REMARKS
119+83.17	121+86.27	ROUTE B	LT	0.2	0.2	NE QUADRANT
119+83.17	122+93.29	ROUTE B	RT	0.3	0.3	NW QUADRANT
123+05.96	125+62.25	ROUTE B	LT	0.2	0.2	SE QUADRANT
123+46.42	125+62.25	ROUTE B	RT	0.2	0.2	SW QUADRANT
SUBTOTAL				0.9	0.9	
PAY TOTAL				0.9	0.9	

MAILBOX POST				
SHEET NO.	STATION	LOCATION	WOOD POST 4" x 4" LF	REMARKS
4 & 6	124+30.59	RT	8	REMOVE & RELOCATE
SUBTOTAL			8	
PAY TOTAL			8	

FENCING							
SHEET NO.	STATION	STATION	LOCATION	SIDE	CHAIN-LINK FENCE (60 IN) LF	MISC. (12 FT TUBE GATE) EA	REMARKS
4	120+38.39	120+78.49	ROUTE B	RT	141		PRIVATE DRIVE (LIFT STATION)
4	125+02.25		ROUTE B	RT		1	PRIVATE DRIVE (FIELD ENTRANCE)
SUBTOTAL					141	1	
PAY TOTAL					141	1	

SUMMARY OF QUANTITIES
SHEET 3 OF 4

DESCRIPTION

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DATE







MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

WARNING SIGNS										GUIDE SIGNS										REGULATORY SIGNS										MISCELLANEOUS SIGNS										CONSTRUCTION SIGNS										RELOCATED SIGNS									
SIGN	SIZE IN.	AREA SQ. FT.	QTY EACH	TOTAL AREA SQ. FT.	QTY RELOC EACH	TOTAL RELOC SQ. FT.	SIGN NUM.	DESCRIPTION		SIGN	SIZE IN.	AREA SQ. FT.	QTY EACH	TOTAL AREA SQ. FT.	QTY RELOC EACH	TOTAL RELOC SQ. FT.	SIGN NUM.	DESCRIPTION		ITEM NUMBER	TOTAL QTY	DESCRIPTION		SIGN	SIZE IN.	AREA SQ. FT.	QTY EACH	TOTAL AREA SQ. FT.	QTY RELOC EACH	TOTAL RELOC SQ. FT.	SIGN NUM.	DESCRIPTION		ITEM NUMBER	TOTAL QTY	DESCRIPTION																							
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)		E05-1	36X48	12.00						GORE EXIT		6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)		E05-2	48X36	12.00						EXIT OPEN		6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)																							
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)		E05-2a	48X36	12.00						EXIT CLOSED		6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)		GO20-1	60X24	10.00						ROAD WORK NEXT XX MILES		6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)																							
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)		GO20-2	48X24	8.00						END ROAD WORK		6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)		GO20-4	36X18	4.50						PILOT CAR FOLLOW ME		6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)																							
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)		GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW		6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)		GO20-4a	48X12	1.50						PILOT CAR IN USE WAIT & FOLLOW		6122020		REPLACEMENT SAND BARREL																							
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)		GO20-4aP	36X24	6.00						WORK ZONE (PLAQUE)		6122030		IMPACT ATTENUATOR (RELOCATION)		MO4-8a	24X18	3.00	2	6.00				END DETOUR		6123001		TRUCK MOUNTED ATTENUATOR (TMA)																							
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)		MO4-9L	48X36	12.00						DETOUR (LEFT)		6161008		ADVANCED WARNING RAIL SYSTEM		MO4-9R	48X36	12.00						DETOUR (RIGHT)		6161012		BUOYS (BOATS KEEP OUT)																							
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)		MO4-9P	48X12	4.00						STREET NAME (PLAQUE)		6161013		BUOYS (NO WAKE)		MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)		6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)																							
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)		MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)		6161025	35	CHANNELIZER (TRIM LINE)		GO20-5a	36X24	6.00						DETOUR ARROW (RIGHT)		6161030	13	TYPE III MOVEABLE BARRICADE																							
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)		REGULATORY SIGNS										6161033		DIRECTION INDICATOR BARRICADE		WARNING SIGNS																																			
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)		R1-1	48X48	13.25						STOP		6161040		FLASHING ARROW PANEL		WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)		6161047		TYPE III OBJECT MARKER		WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)		6161055		SEQUENTIAL FLASHING WARNING LIGHT									
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)		R1-2	48TRI.	6.93						YIELD		6161070		TUBULAR MARKER		WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)		6161095		RADAR SPEED ADVISORY SYSTEM		WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)		6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED									
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)		R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)		6161098A	7	CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE- CONTRACTOR FURNISHED/RETAINED		WO1-8	18X24	3.00						CHEVRON (SYMBOL)		6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE- CONTRACTOR FURNISHED/RETAINED		WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)		6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM									
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)		R1-3P	30X12	2.50						ALL WAY (PLAQUE)		6162002		TEMPORARY LONG-TERM RUMBLE STRIPS		WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)		6173600B		CONTRACTOR FURNISHED/RETAINED		WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)		6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION									
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)		R2-1	36X48	12.00						SPEED LIMIT XX		6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER		WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)		6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED		WO3-4	48X48	16.00						BE PREPARED TO STOP		6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED									
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)		R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)		6208064A		TEMPORARY RAISED PAVEMENT MARKER		WO3-5	48X48	16.00						SPEED LIMIT AHEAD		9029400		TEMPORARY TRAFFIC SIGNALS		WO4-1	48X48	16.00						MERGE (SYMBOL FROM LEFT)		9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING									
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)		R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)						WO4-1aL	48X48	16.00						MERGE (LEFT)						WO4-1aR	48X48	16.00						MERGE (RIGHT)													
WO1-8	18X24	3.00						CHEVRON (SYMBOL)		R3-3	36X36	9.00						NO TURNS						WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)						WO4-2	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS													
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)		R3-4	48X48	16.00						NO U-TURN (SYMBOL)						WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS						WO5-3	48X48	16.00						ONE LANE BRIDGE													
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)		R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT						WO5-5	48X48	16.00						NARROW LANES						WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)													
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)		R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT						WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)						WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)													
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)		R4-1	36X48	12.00						DO NOT PASS						WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)						WO8-1	48X48	16.00						BUMP													
WO3-4	48X48	16.00						BE PREPARED TO STOP		R4-2	36X48	12.00						PASS WITH CARE						WO8-2	48X48	16.00						DIP						WO8-3	48X48	16.00						PAVEMENT ENDS													
WO3-5	48X48	16.00						SPEED LIMIT AHEAD		R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)						WO8-4	48X48	16.00						SOFT SHOULDER						WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)													
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)		R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)						WO8-6	48X48	16.00						TRUCK CROSSING						WO8-6c	48X48	16.00						TRUCK ENTRANCE													
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)		R5-1	30X30	6.25						DO NOT ENTER						WO8-7	36X36	9.00						LOOSE GRAVEL						WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL													
WO4-1aL	48X48	16.00						MERGE (LEFT)		R5-1a	36X24	6.00						WRONG WAY						WO8-9	48X48	16.00						LOW SHOULDER						WO8-11	48X48	16.00						UNEVEN LANES													
WO4-1aR	48X48	16.00						MERGE (RIGHT)		R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)						WO8-12	48X48	16.00						NO CENTER LINE						WO8-15	48X48	16.00						GROOVED PAVEMENT													
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS		R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)						WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)						WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)													
WO5-3	48X48	16.00						ONE LANE BRIDGE		R6-2L	24X30	5.00						ONE WAY (LEFT)						WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)						WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)													
WO5-5	48X48	16.00						NARROW LANES		R6-2R	24X30	5.00						ONE WAY (RIGHT)						W10-1	42RND.	9.62						RAILROAD CROSSING						WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)													
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)		R9-9	24X12	2.00						SIDEWALK CLOSED						WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)						WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)													
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)		R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE						WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)						WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD													
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)		R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE						WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD						WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)													
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)		R10-6	24X36	6.00						STOP HERE ON RED (45° ARROW)						WO16-2	30X24	5.00						XXX FEET (PLAQUE)						WO16-3	30X24	5.00						X MILE (PLAQUE)													
WO8-1	48X48	16.00						BUMP		R11-2	48X30	10.00	7	70.00				ROAD CLOSED						WO20-1	48X48	16.00						ROAD/BRIDGE/RAMP WORK AHEAD						WO20-2	48X48	16.00	7	112.00				DETOUR AHEAD													
WO8-2	48X48	16.00						DIP		R11-3a	60X30	12.50	1	12.50				ROAD CLOSED 3 MILES AHEAD LOCAL TRAFFIC ONLY						WO20-3	48X48	16.00	2	32.00				ROAD CLOSED AHEAD						WO20-4	48X48	16.00						ONE LANE ROAD AHEAD													
WO8-3	48X48	16.00						PAVEMENT ENDS		R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC						WO20-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD						WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD													
WO8-4	48X48	16.00						SOFT SHOULDER		CONST-3A	60X48	20.00						FINE SIGN						WO20-6a	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED						WO20-7a	48X48	16.00						FLAGGER (SYMBOL)													
WO8-5	48X48	16.00						SLIPPER																																																			

STANDARD SIGN ASSEMBLIES

SIGN, TYPE, DESIGNATION, SIZE & NUMBER OF EACH

SIGN NO.	STATION OR LOG MILE	LOCATION	M2-1	M1-5a	R2-1	R2-1	OM-3R	R1-1													
																					
1a	119+83.17	RTE. B	1																		
1b	119+83.17	RTE. B		1																	
2	121+08.04	RTE. B			1																
3	121+10.23	RTE. B				1															
4	123+18.86	RTE. B					1														
5	000+43.78	W PERRY ST						1													
TOTALS			1	1	1	1	1	1													

SIGN SUMMARY


EFFECTIVE: 10-01-2016

STANDARD OR SPECIAL SIGN DESIGNATION	SIGN DTL. SHT. NO.	NO. EACH	SIGN SIZE	TYPE & SQUARE FEET			
				FLAT SHEET SH ITEM NO.	FLUORESCENT SHF* ITEM NO.	STRUCTURAL ST ITEM NO.	STRUCTURAL FLUORESCENT STF* ITEM NO.
M2-1	STD	1	21"x15"	2.19			
M1-5a (RTE Z)	STD	1	24"x24"	4			
R2-1 (45 MPH)	STD	1	36"x48"	12			
R2-1 (30 MPH)	STD	1	36"x48"	12			
OM-3R	STD	1	12"x36"	3			
R1-1	STD	1	36"x36"	9			
TOTALS				43			

*ORANGE, YELLOW AND YELLOW-GREEN

SIGNING SHEET
SHEET 3 OF 6

D-30



HEATHER R. BARROWS
PROFESSIONAL ENGINEER
NUMBER PE-2016040670

01/27/2025 3:27:42 PM
HEATHER R. BARROWS - CIVIL
MO-PE-2016040670

DATE PREPARED
1/27/2025

ROUTE B STATE MO
DISTRICT KC SHEET NO. 17

COUNTY
PLATTE

JOB NO.
J4S3492

CONTRACT ID.


PROJECT NO.

BRIDGE NO.
A9335

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

GENERAL NOTES:

Design Specifications:
2020 AASHTO LRFD Bridge Design Specifications (9th Ed.)

Seismic Design Category = A

Design Loading:

Vehicular = HL-93
Future Wearing Surface = 35 lb/sf
Earth = 120 lb/cf
Equivalent Fluid Pressure = 45 lb/cf (Min.)

Superstructure:

Simply-supported, shored for dead load. Continuous for live load.

Design Unit Stresses:

Class B Concrete (Substructure) f'c = 3,000 psi
Class B-1 Concrete (Barrier & Substructure) f'c = 4,000 psi
Class B-2 Concrete (Superstructure, except Barrier) f'c = 4,000 psi

Reinforcing Steel (ASTM A615 Grade 60) fy = 60,000 psi
Structural Steel HP Pile (ASTM A709 Grade 50) fy = 50,000 psi

Joint Filler:

All joint filler shall be in accordance with Sec 1057 for performance sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:

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

Miscellaneous:

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

Traffic Handling:

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

Estimated Quantities			
Item	Substr.	Superstr.	Total
Class 1 Excavation	cu. yard	70	70
Removal of Bridges (R0247)	lump sum		1
Bridge Approach Slab (Minor)	sq. yard		117
Galvanized Structural Steel Piles (12 in.)	linear foot	165	165
Galvanized Structural Steel Piles (14 in.)	linear foot	170	170
Pre-Bore for Piling	linear foot	215	215
Pile Point Reinforcement	each	20	20
Class B Concrete (Substructure)	cu. yard	31.1	31.1
Class B-1 Concrete (Substructure)	cu. yard	63.2	63.2
Class B-2 Concrete (Superstructure Solid Slab)	cu. yard	279.1	279.1
Concrete Curb (Bridge Rail)	linear foot	249	249
Reinforcing Steel (Bridges)	pound		5,330
Reinforcing Steel (Epoxy Coated)	pound		50,400
Bridge Rail (Two Tube Structural Steel)	linear foot		251
Vertical Drain At End Bents	each	2	2

All concrete above the construction joint in the end bents and intermediate bent caps (including drop panels) is included with the superstructure quantities.

All concrete in the intermediate bent cap is included in the contract unit price for Class B-1 Concrete (Substructure).

All concrete in the intermediate encasement is included in the contract unit price for Class B Concrete (Substructure).

Foundation Data					
Type	Design Data	Bent Number			
		1	2	3	4
Load Bearing Pile	HP Pile Type and Size	HP 12x53	HP 14x72	HP 14x72	HP 12x53
	Number	5	5	5	5
	Approximate Length Per Each	15	17	17	18
	Pile Point Reinforcement	All	All	All	All
	Min. Galvanized Penetration (Elev.)	Full Length	Full Length	Full Length	Full Length
	Est. Max Scour Depth 100 (Elev.)	807.3	806.1	806.5	805.2
	Criteria for Min. Tip Penetration	Min. Embed.	Min. Embed.	Min. Embed.	Min. Embed.
	Pile Driving Verification Method	DF	DF	DF	DF
	Resistance Factor	0.4	0.4	0.4	0.4
	Minimum Nominal Axial Compressive Resistance	kip	247	481	483

DF = FHWA-modified Gates Dynamic Pile Formula

Load Bearing Pile:

Minimum Nominal Axial Compressive Resistance = Maximum Factored Loads/Resistance Factor

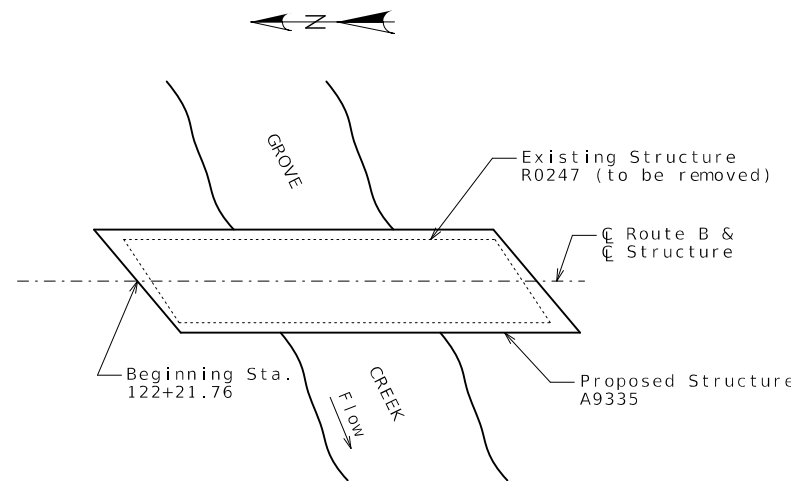
HP piles are anticipated to be driven to refusal on rock. Review all borings for depth of rock and restrict driving as appropriate to comply with hard rock driving criteria in accordance with Sec 702. When pile refusal on rock occurs, as approved by the engineer, the minimum nominal axial compressive resistance is verified and no additional pile driving verification method is required.

Pile point reinforcement need not be galvanized. Shop drawings will not be required for pile point reinforcement.

All piles shall be galvanized down to the minimum galvanized penetration (elevation).

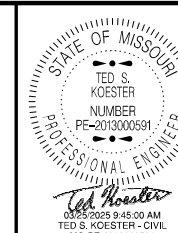
The contractor shall make every effort to achieve the minimum galvanized penetration (elevation) shown on the plans for all piles. Deviations in penetration less than 5 feet of the minimum will be considered acceptable provided the contractor makes the necessary corrections to ensure the minimum penetration is achieved on subsequent piles.

Prebore for piles at Bent(s) No. 1,2,3 and 4 to elevation(s) 802.3, 801.1, 801.5 and 800.2, respectively.



LOCATION SKETCH

Hydrologic Data
Drainage Area = 10 mi ²
Design Flood Frequency = 50 years
Design Flood Discharge = 4800 cfs
Design Flood (D.F.) Elevation = 823.3
Base Flood (100-year)
Base Flood Elevation = 823.6
Base Flood Discharge = 5600 cfs
Estimated Backwater = -0.2 ft
Average Velocity thru Opening = 3.3 ft/s
Freeboard (50-year)
Freeboard = -5.0 ft
Roadway Overtopping
Overtopping Flood Discharge = 1320 cfs
Overtopping Flood Frequency < 10 years
Overtopping Flood Elevation = 819.9



DATE PREPARED
3/25/2025

ROUTE B STATE MO

DISTRICT BR SHEET NO. 2

COUNTY PLATTE

JOB NO. J4S3492

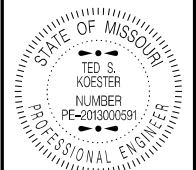
CONTRACT ID.

PROJECT NO.

BRIDGE NO. A9335

DATE	DESCRIPTION

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



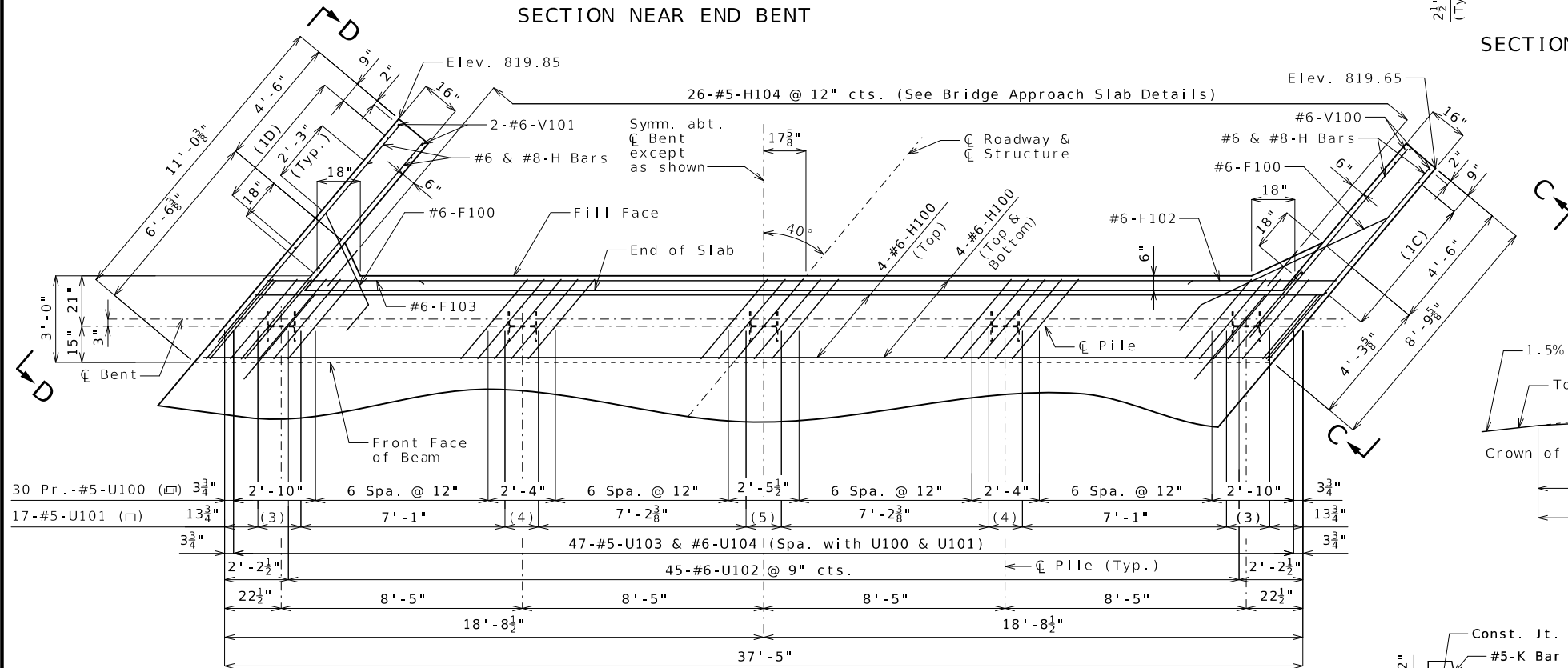
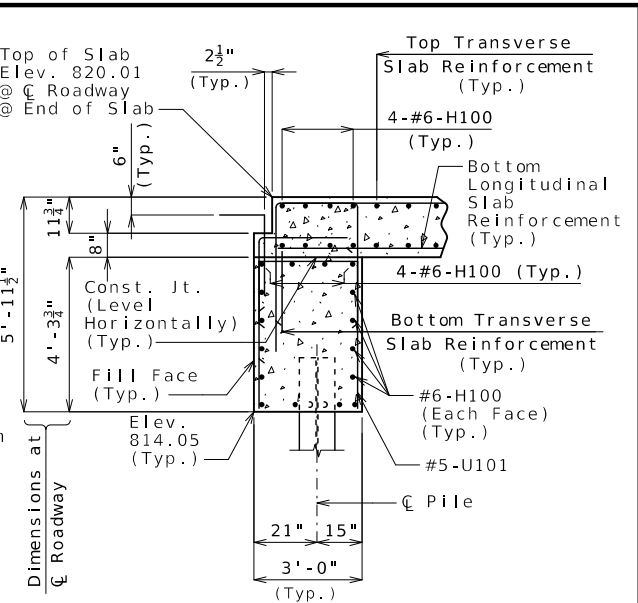
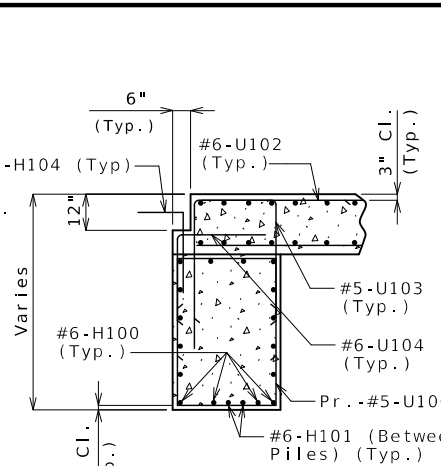
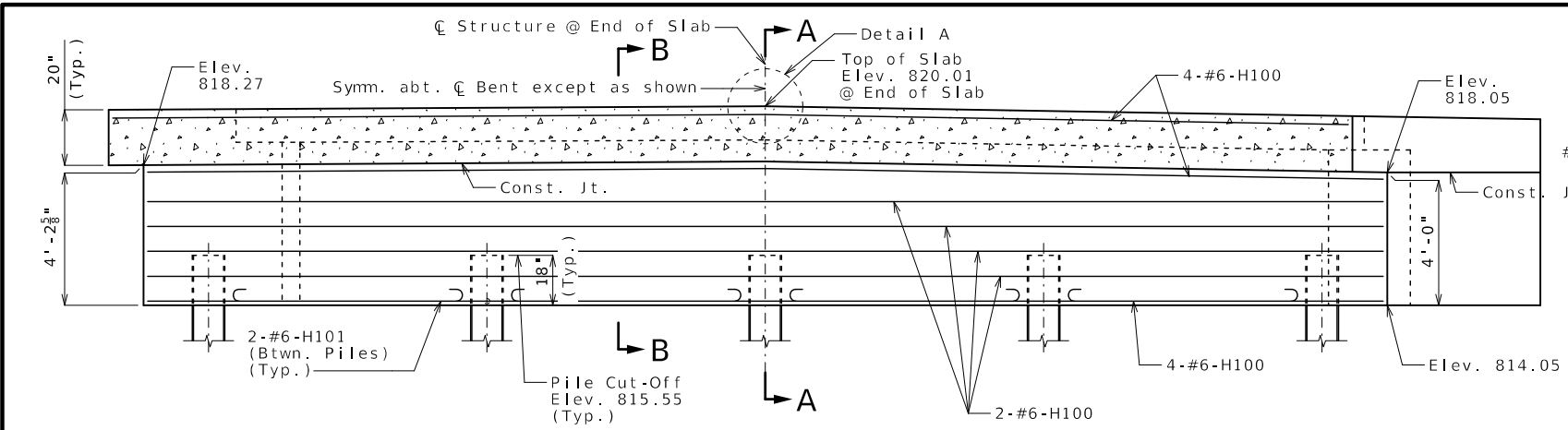
DATE PREPARED
3/25/2025

ROUTE B STATE MO
DISTRICT BR SHEET NO. 3

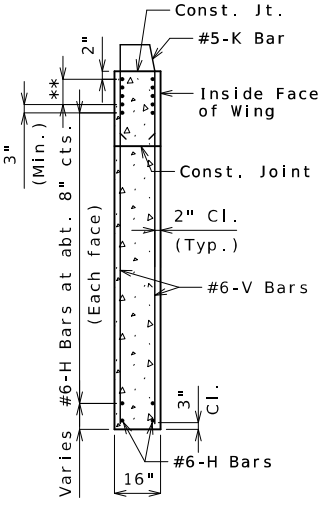
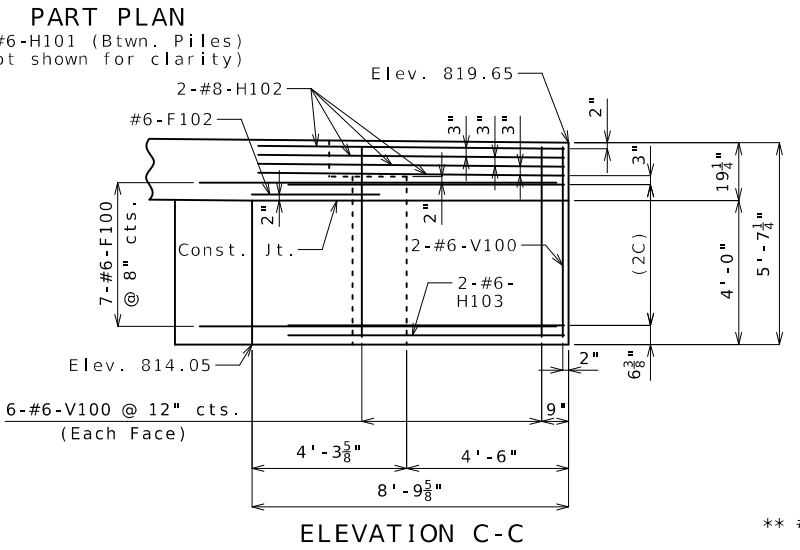
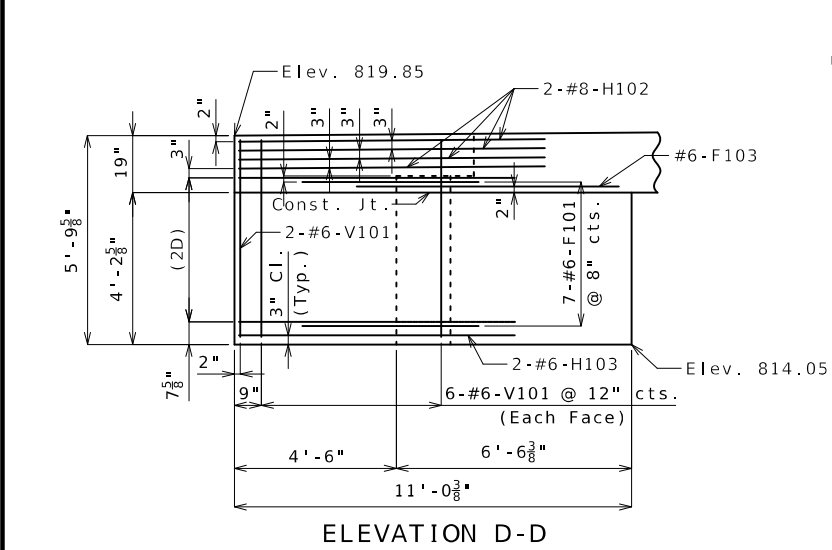
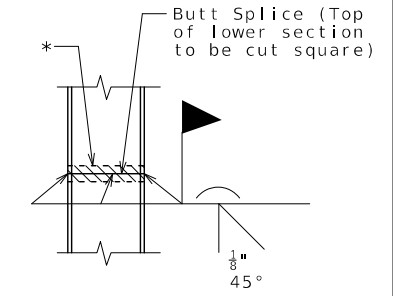
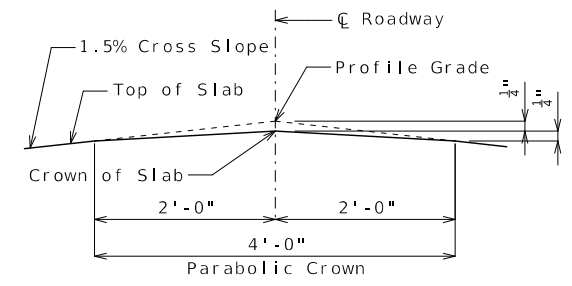
COUNTY PLATTE
JOB NO. J4S3492
CONTRACT ID.

PROJECT NO.

BRIDGE NO. A9335



- (1C) 6-#6-V100 @ 12" cts. (Each Face)
- (1D) 6-#6-V101 @ 12" cts. (Each Face)
- (2C) 7-#6-H103 @ abt. 8" cts. (Each Face)
- (2D) 7-#6-H103 @ abt. 8" cts. (Each Face)
- (3) 3 Spa. @ 6"
- (4) 2 Spa. @ 7"
- (5) 2 Spa. @ 7 3/8"



DETAIL A

STEEL PILE SPLICE
(If required)

Notes:

- For details of vertical drain at end bent, see Sheet No. 4.
- For details of bridge approach slab, see Sheet No. 15.
- All concrete in the end bent above the construction joint shall be Class B-2.
- Reinforcing steel shall be shifted to clear piles. U bars shall clear piles by at least 1 1/2 inches.
- The U bars and #5-H104 shall be placed parallel to the centerline of roadway.
- For details and reinforcement of curb, see Sheet 11.

Substructure Quantities Table for Bent No. 1

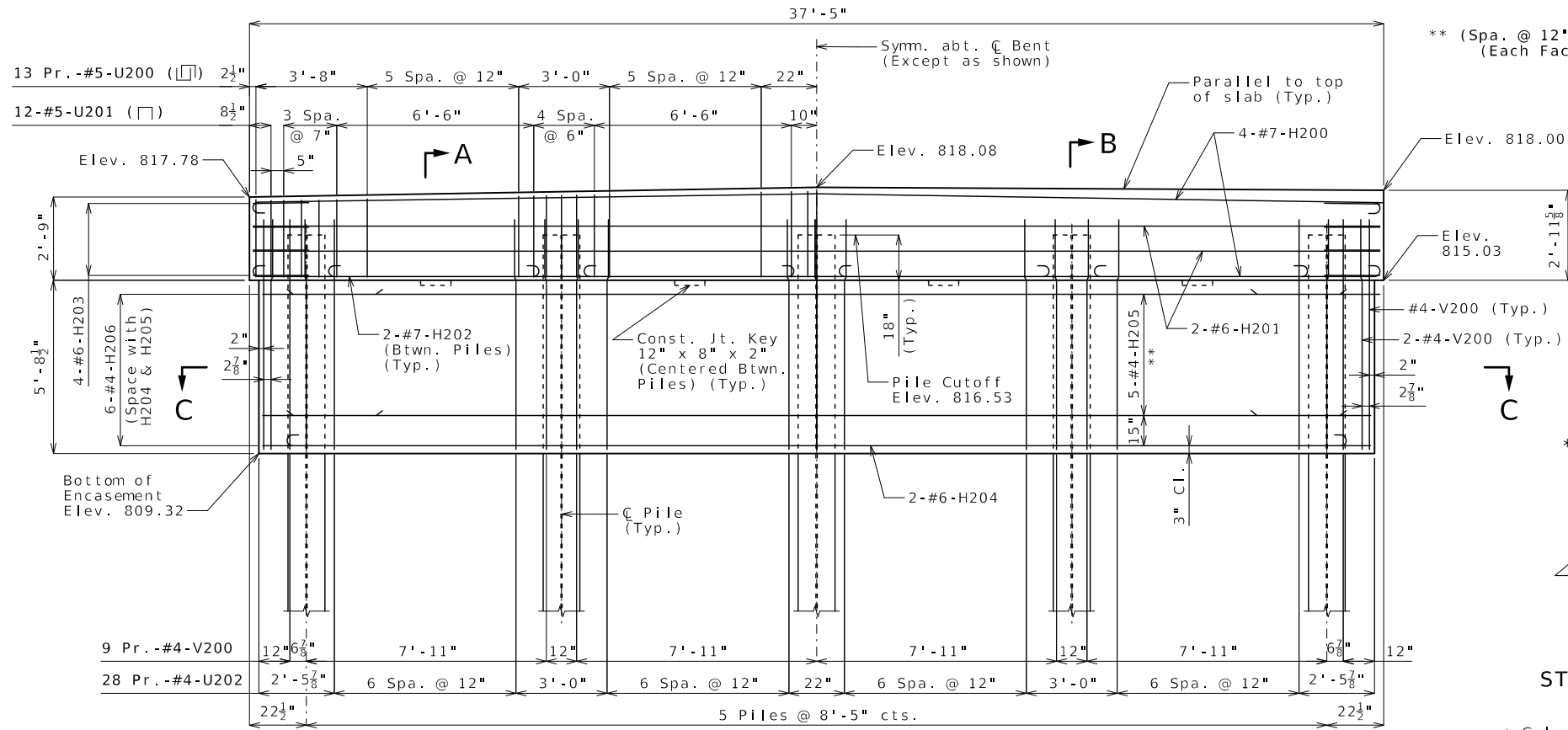
Item	Quantity
Class 1 Excavation	cu. yard 35
Galvanized Structural Steel Piles (12 in.)	linear foot 75
Pre-Bore for Piling	linear foot 59
Pile Point Reinforcement	each 5
Class B-1 Concrete (Substructure)	cu. yard 20.2

These quantities are included in the Estimated Quantities table on Sheet No. 2.

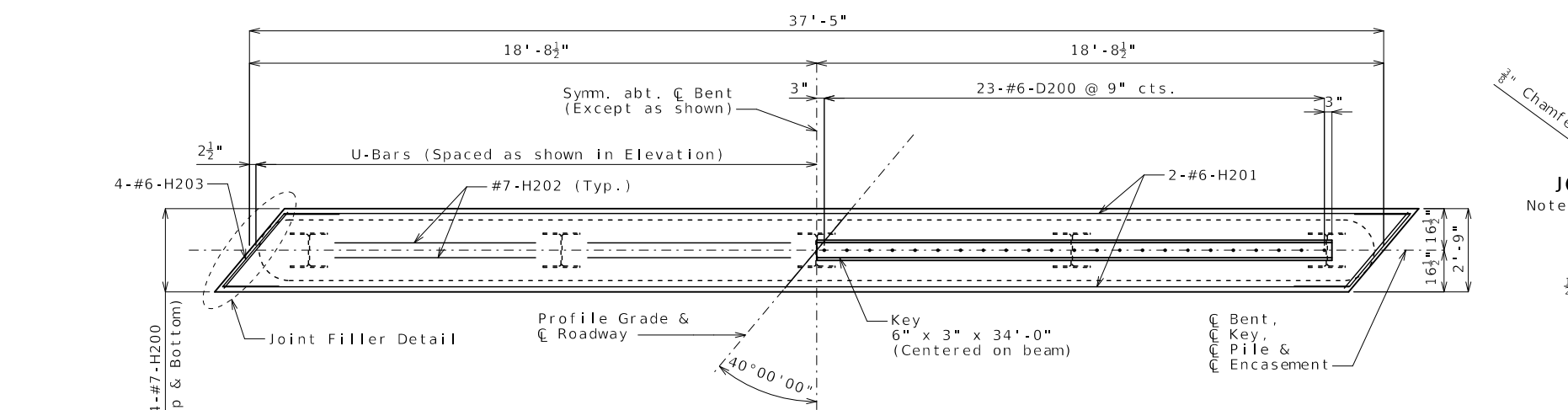
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



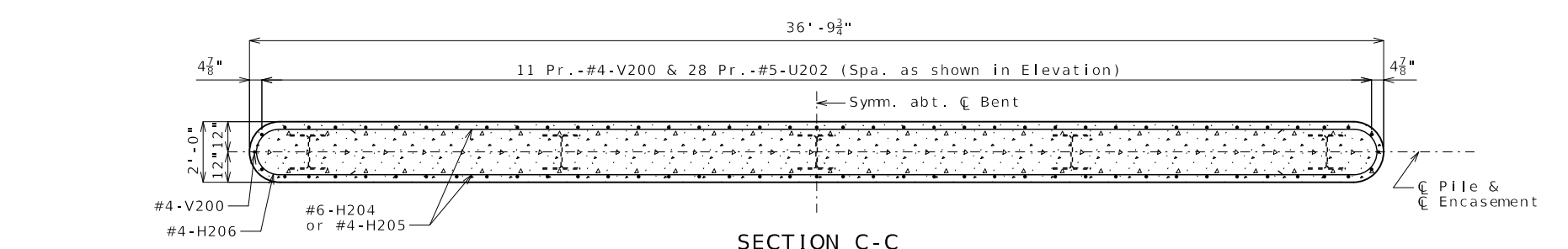
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



ELEVATION
Note: Key not shown for clarity.

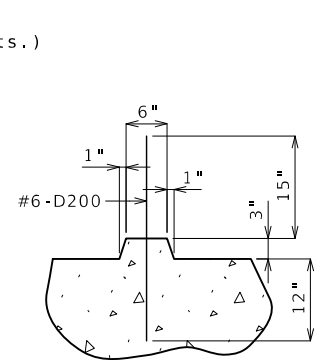


PLAN OF BEAM SHOWING REINFORCEMENT

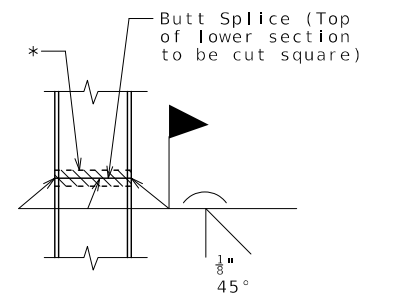


SECTION C-C

INTERMEDIATE BENT NO. 2

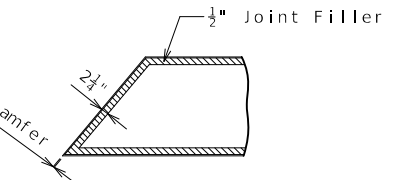


SECTION THRU KEY

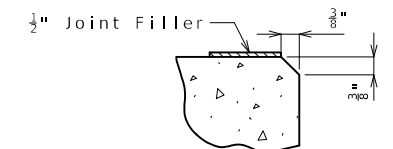


STEEL PILE SPlice
(If required)

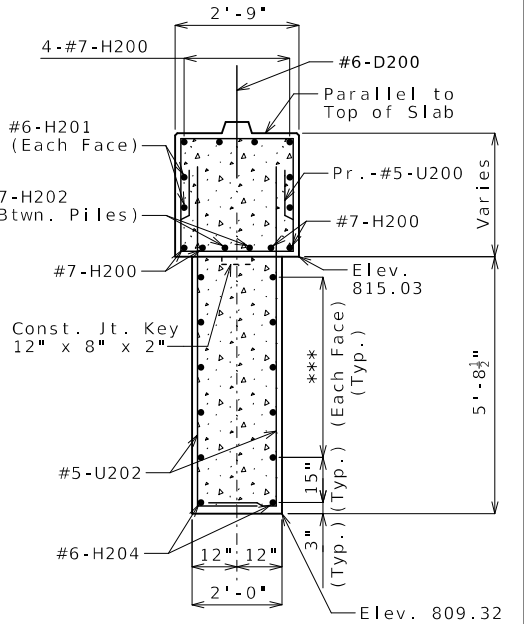
* Galvanizing material shall be omitted or removed one inch clear of weld locations in accordance with Sec 702.



JOINT FILLER DETAIL
Note: Joint Filler to go around the entire beam cap.

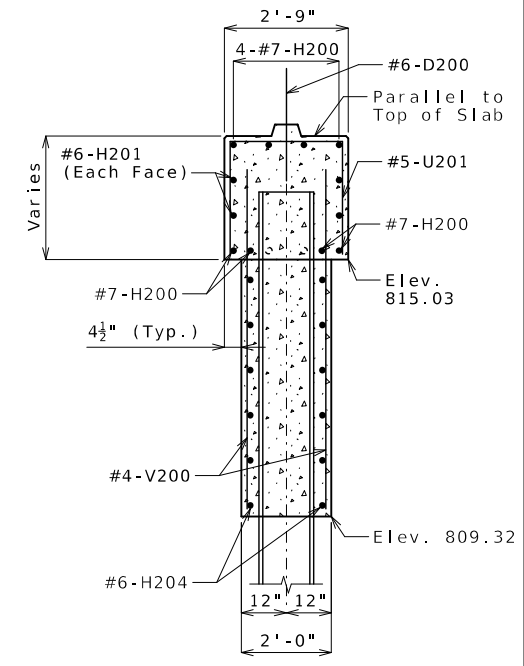


CHAMFER DETAIL AT TOP OF BEAM EDGES



SECTION A-A

*** 5-#4-H205 @ 12" cts.



SECTION B-B

Substructure Quantities for Bent No. 2		
Item	Unit	Quantity
Galvanized Structural Steel Piles (14 in.)	linear foot	85
Pre-Bore for Piling	linear foot	41
Pile Point Reinforcement	each	5
Class B Concrete (Substructure)	cu. yard	15.2
Class B-1 Concrete (Substructure)	cu. yard	11.4
Reinforcing Steel (Bridges)	pound	2,510

Notes:
These quantities are included in the estimated quantities table on Sheet No. 2.
Reinforcing steel shall be shifted to clear piles. U-bars shall clear pile by at least 1 1/2 inches.



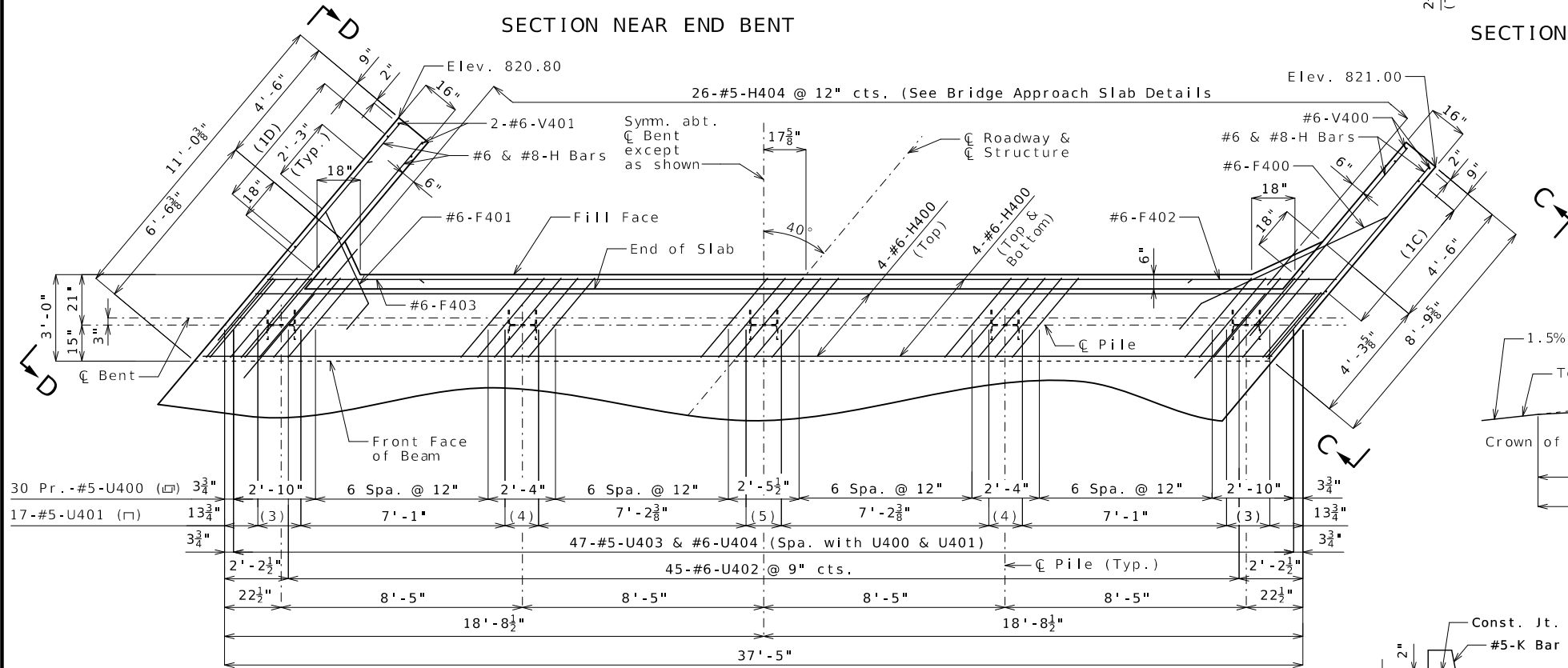
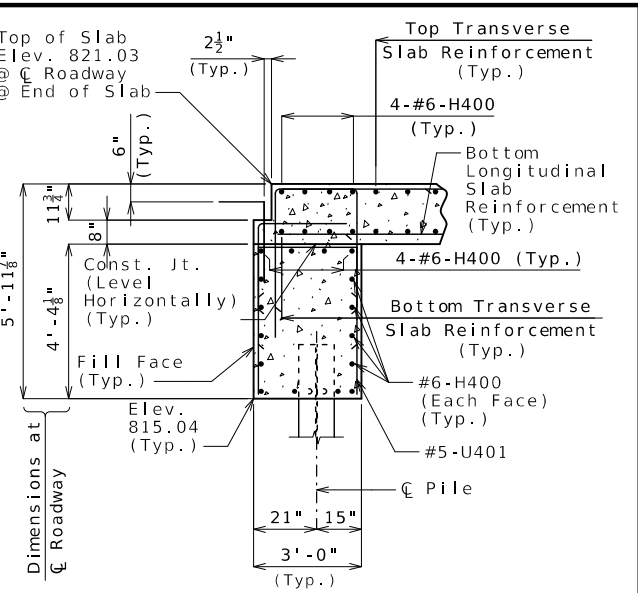
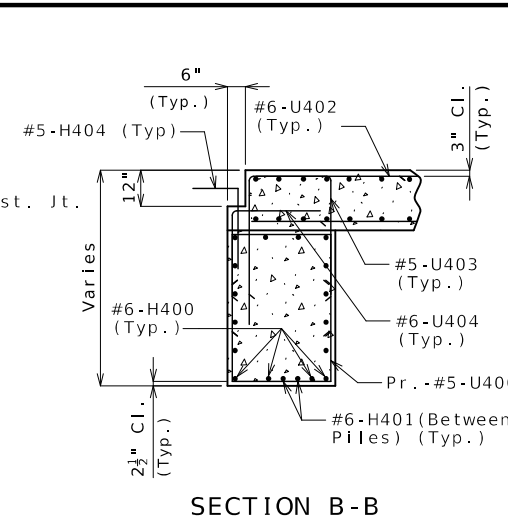
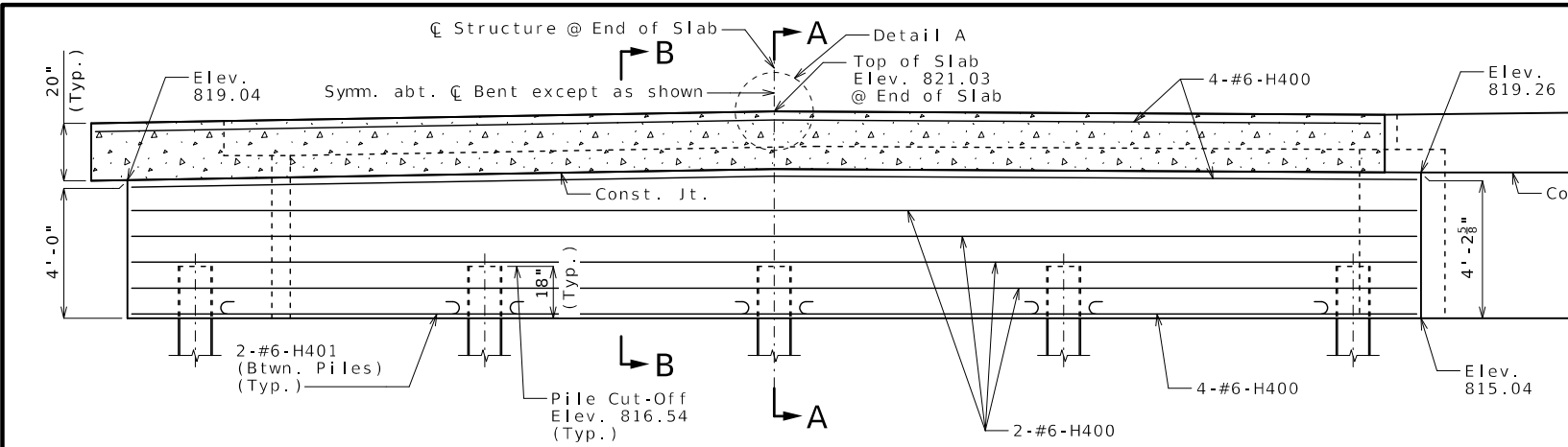
DATE PREPARED	
3/25/2025	
ROUTE	STATE
B	MO
DISTRICT	SHEET NO.
BR	5
COUNTY	
PLATTE	
JOB NO.	
J4S3492	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
A9335	

DESCRIPTION	DATE

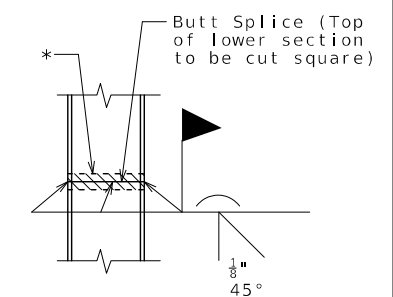
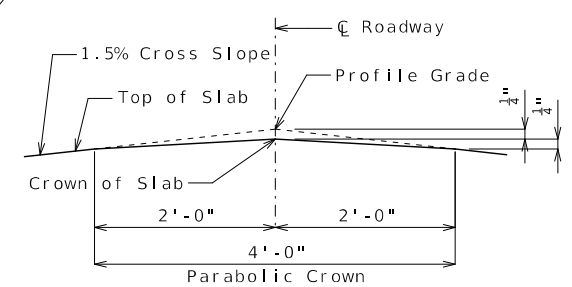
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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



- (1C) 6-#6-V400 @ 12" cts. (Each Face)
- (1D) 6-#6-V401 @ 12" cts. (Each Face)
- (2C) 7-#6-H403 @ abt. 8" cts. (Each Face)
- (2D) 7-#6-H403 @ abt. 8" cts. (Each Face)
- (3) 3 Spa. @ 6"
- (4) 2 Spa. @ 7"
- (5) 2 Spa. @ 7 3/8"



STEEL PILE SPLICE
(If required)

* Galvanizing material shall be omitted or removed one inch clear of weld locations in accordance with Sec 702.

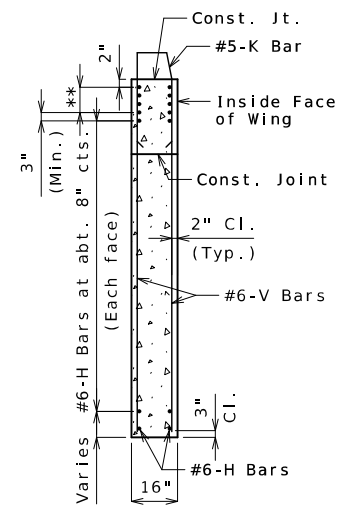
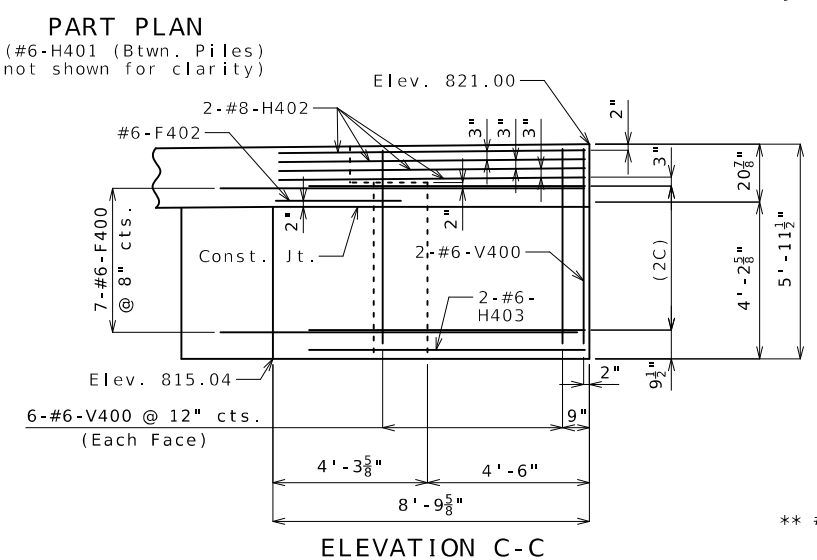
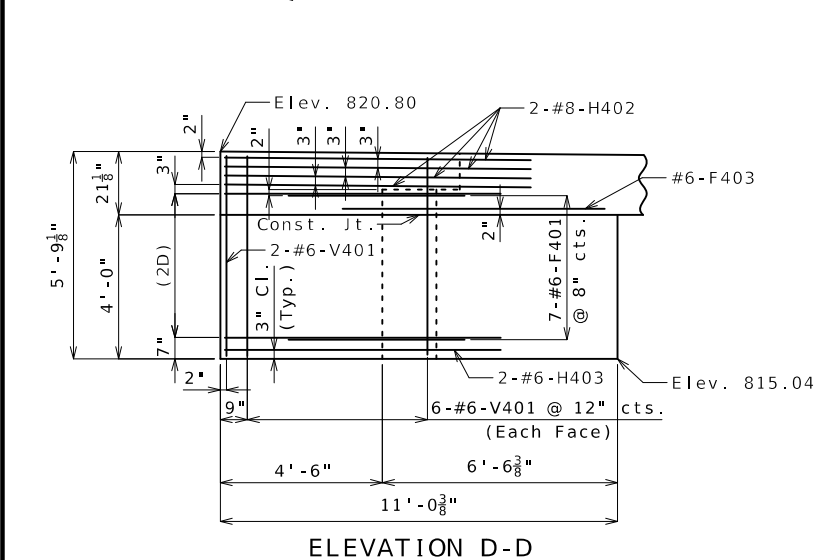
Notes:

- For details of vertical drain at end bent, see Sheet No. 4.
- For details of bridge approach slab, see Sheet No. 15.
- All concrete in the end bent above the construction joint shall be Class B-2.
- Reinforcing steel shall be shifted to clear piles. U bars shall clear piles by at least 1 1/2 inches.
- The U bars and #5-H404 shall be placed parallel to the centerline of roadway.
- For details and reinforcement of curb, see Sheet 11.

Substructure Quantities Table for Bent No. 4

Item	Quantity
Class 1 Excavation	cu. yard 35
Galvanized Structural Steel Piles (12 in.)	linear foot 90
Pre-Bore for Piling	linear foot 75
Pile Point Reinforcement	each 5
Class B-1 Concrete (Substructure)	cu. yard 20.3

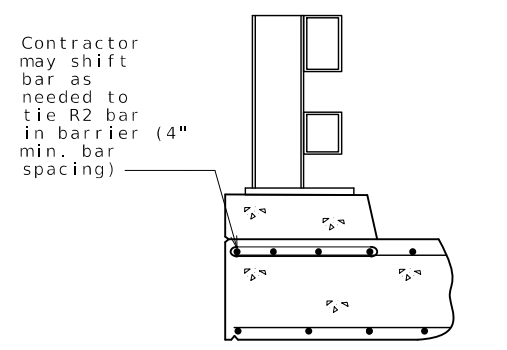
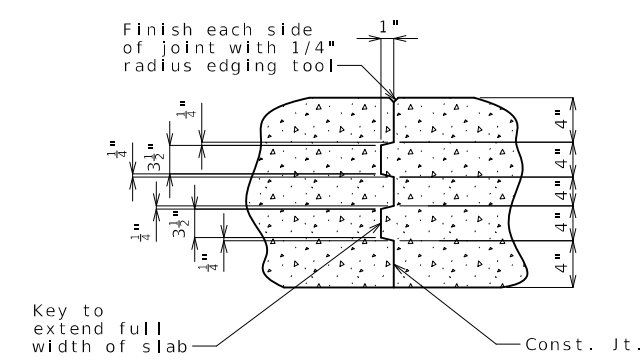
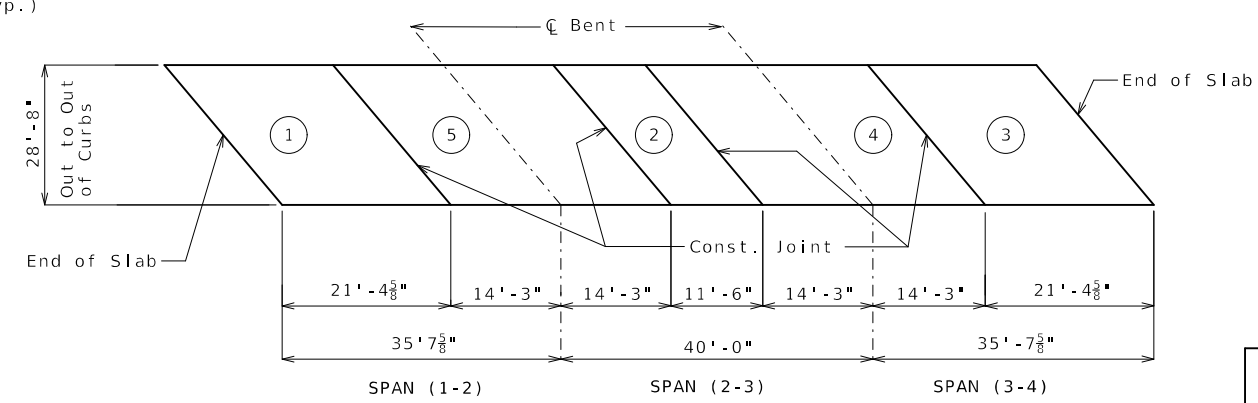
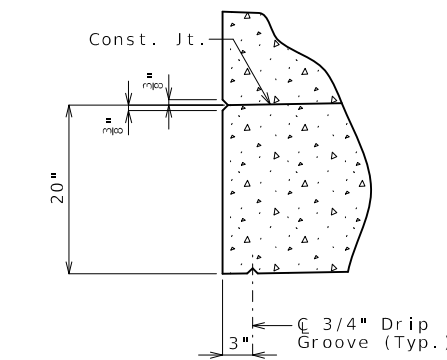
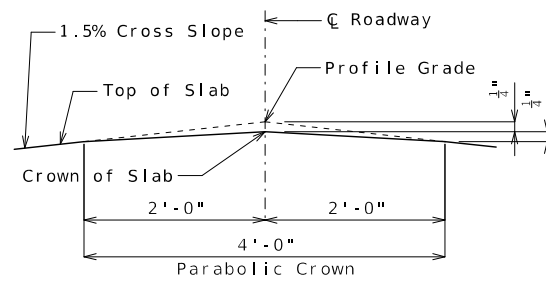
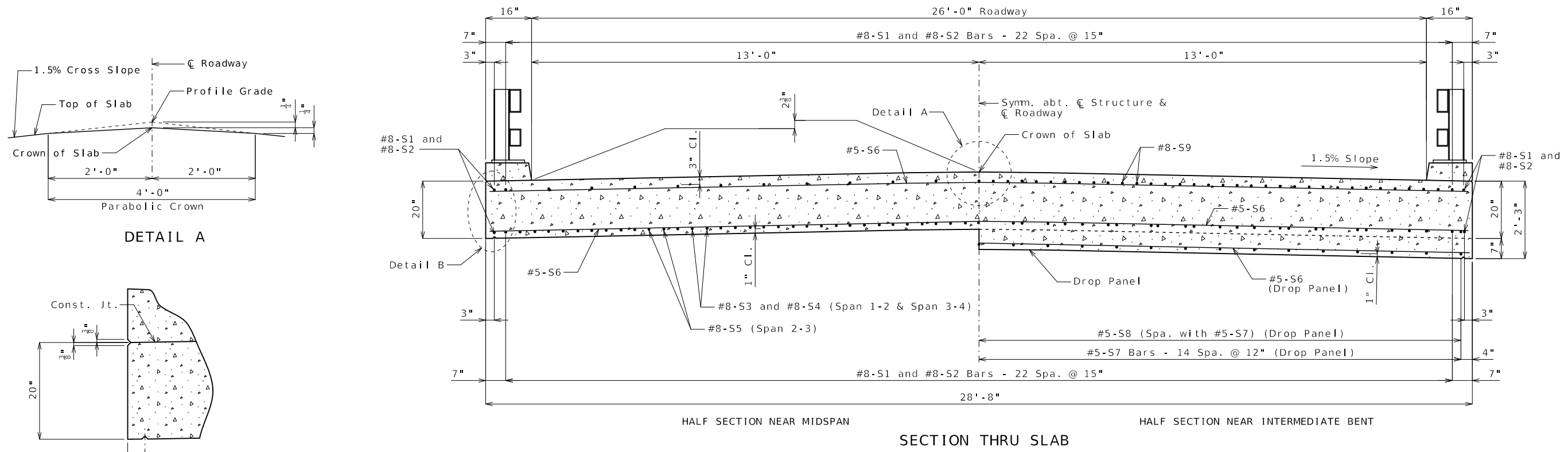
These quantities are included in the Estimated Quantities table on Sheet No. 2.



TYPICAL SECTION THRU WING
** #8-H Bars at 3" cts. (Each face) (Place with grade)

STATE OF MISSOURI
PROFESSIONAL ENGINEER
TED S. KOESTER
NUMBER PE-2013000591
03/25/2025 9:47:15 AM
TED S. KOESTER - CIVIL
MO-PE-2013000591

DATE PREPARED 3/25/2025	
ROUTE B	STATE MO
DISTRICT BR	SHEET NO. 7
COUNTY PLATTE	
JOB NO. J4S3492	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9335	
DESCRIPTION	DATE
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)



	Sequence of Pours					Min. Rate of Pour Cu. Yds./Hr. With Retarder
	Direction					
Basic Sequence	1	2	3	4	5	36
Alternate pours to the basic skip sequence are subject to the approval of the engineer in accordance with Sec 703.						
Alternate A Pours	1	5 + 2	1 to 4	4 + 3	2 to End	36
Alternate B Pours	1 + 5 + 2			4 + 3		36
Alternate C Pours		1 + 5 + 2 + 4 + 3		2 to End		36

The contractor shall furnish an approved retarder to retard the set of concrete to 2.5 hours and shall pour satisfactorily finish the roadway slab at a rate of not less than 36 cubic yards per hour. The contractor shall observe the transverse construction joints shown on plans, unless the contractor is equipped to pour and satisfactorily finish the roadway slab at a rate which permits a continuous pouring through some or all joints as approved by the engineer.

SLAB POURING SEQUENCE

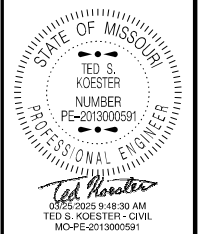
- Notes:
- For details of curb not shown, see Sheet No. 11.
 - For Theoretical Bottom of Slab Elevations and Camber Diagram, see Sheet No. 8.
 - For Plan of Slab Showing Reinforcement, see Sheet No. 9.
 - For Drop Panel Elevation, see Sheet No. 8.

SLAB DETAILS

Detailed Dec. 2024
Checked Feb. 2025

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

Sheet No. 10 of 18



DATE PREPARED
3/25/2025

ROUTE B STATE MO

DISTRICT BR SHEET NO. 10

COUNTY PLATTE

JOB NO. J4S3492

CONTRACT ID.

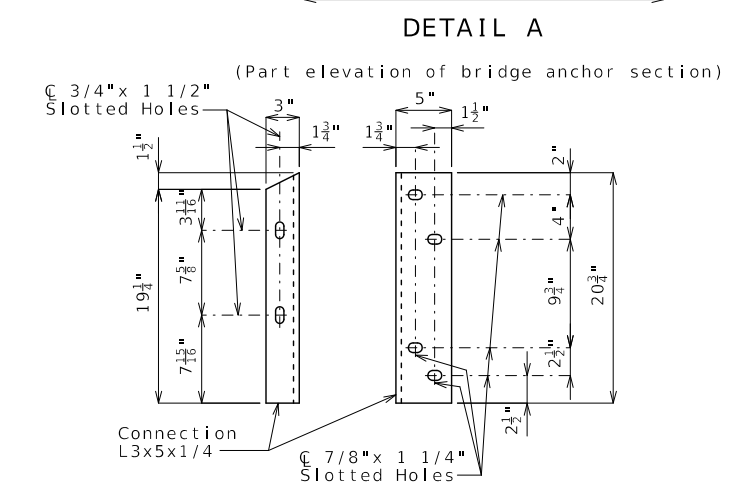
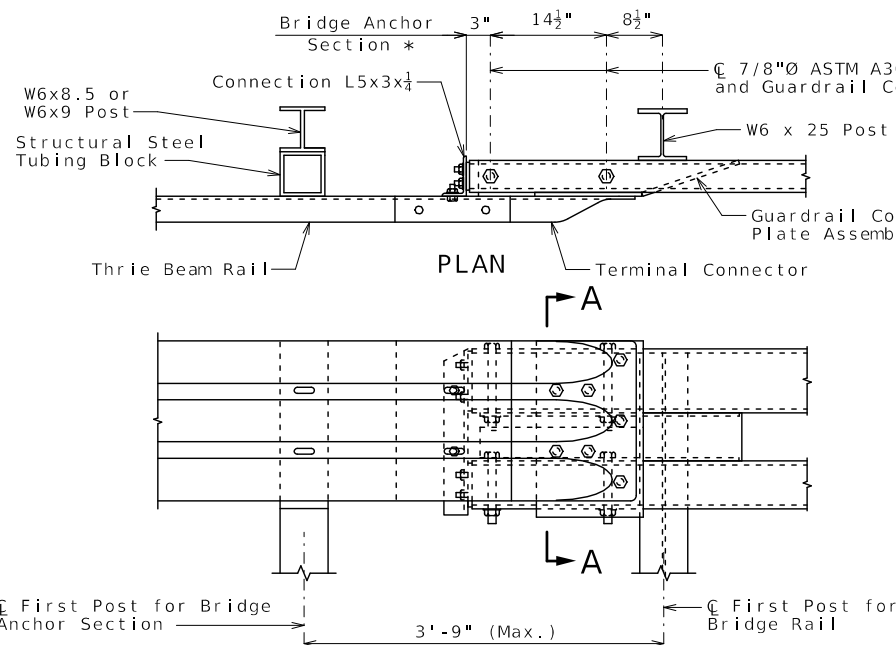
PROJECT NO.

BRIDGE NO. A9335

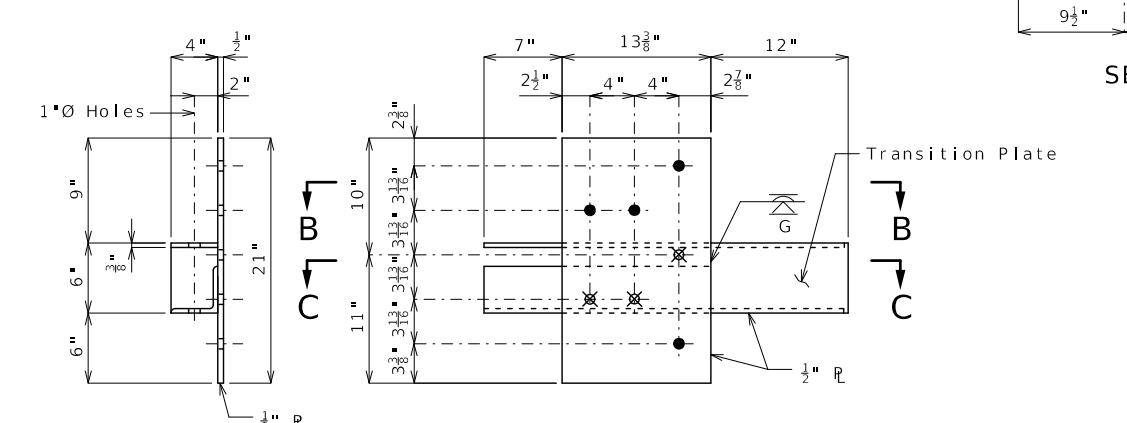
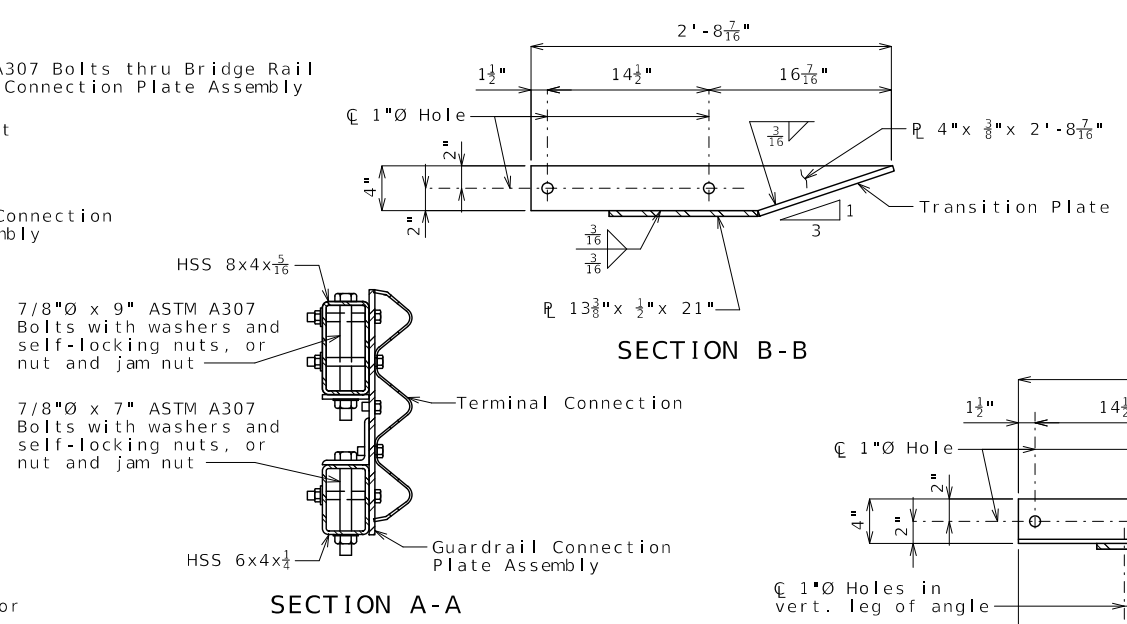
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

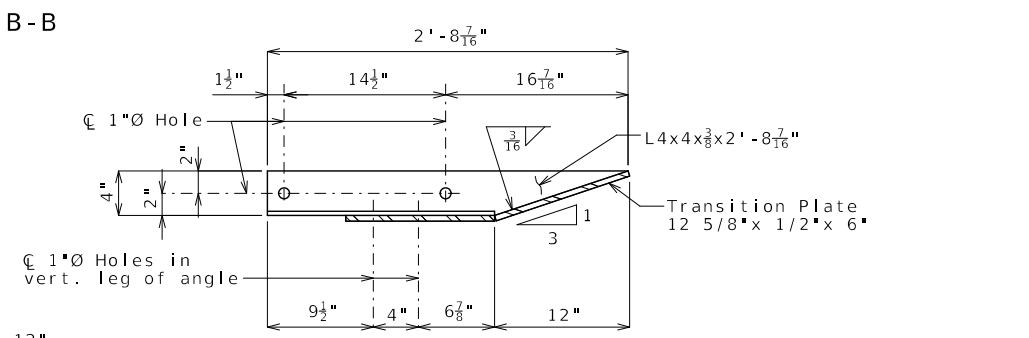
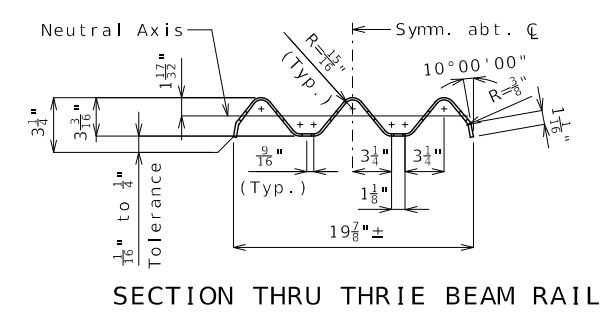
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



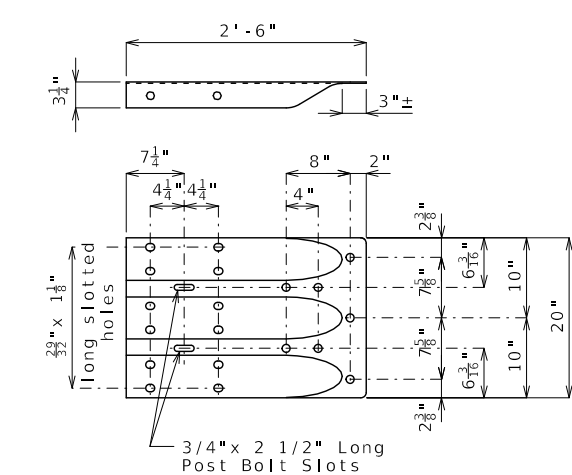
CONNECTION ANGLE DETAILS
Install angles to rail caps using 5/8"Ø washers and self-locking nuts, or nuts and jam nuts.



GUARDRAIL CONNECTION PLATE ASSEMBLY DETAILS
(Mirror for opposite end)
 ☒ Drill and tap 3 holes for 7/8-inch diameter ASTM F3125 Grade A325 Type 1 bolts.
 ● Four 1-inch diameter holes for 7/8-inch diameter ASTM F3125 Grade A325 Type 1 bolts and nuts

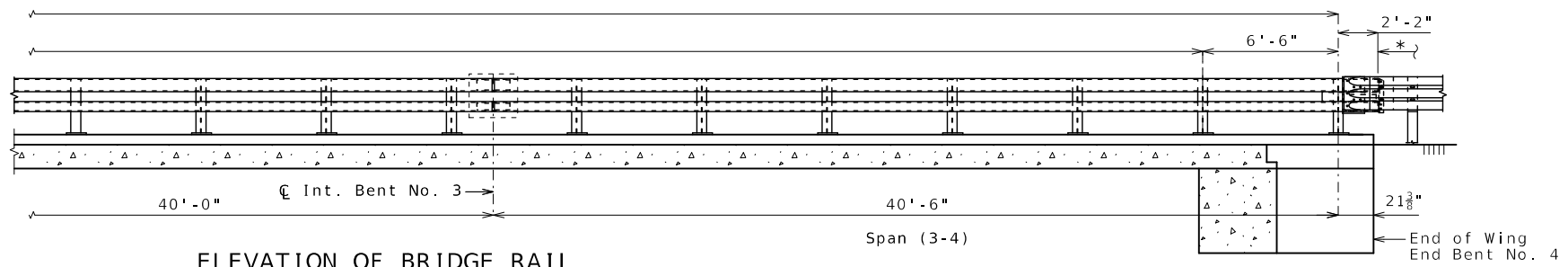
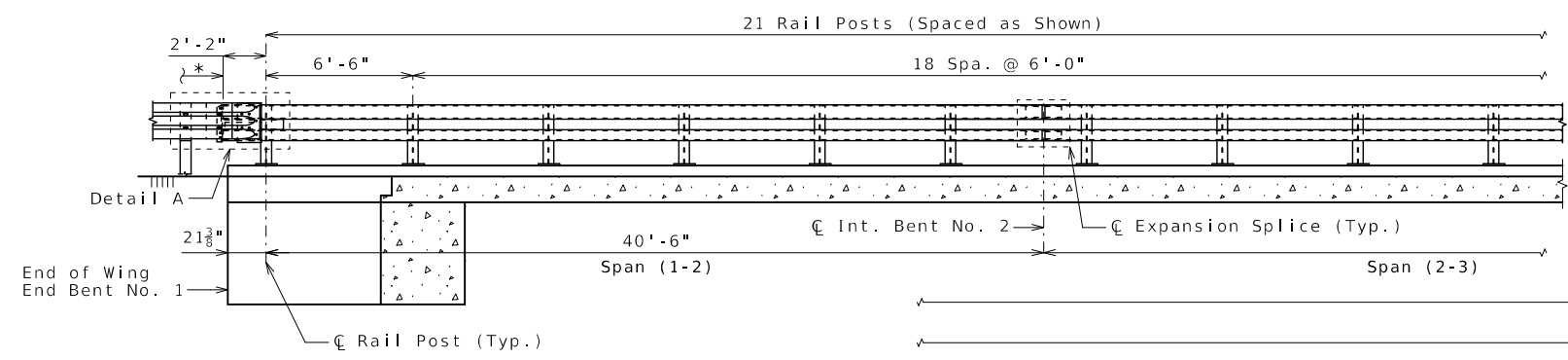


SECTION C-C

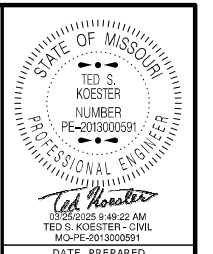


TERMINAL CONNECTOR

Notes:
Work this sheet with Sheets No. 11 & 13.
Provide railing expansion joints at 50 foot maximum intervals. Railing shall be continuous over two posts minimum. Railing expansion joints are required in rail sections that span bridge expansion joints.



ELEVATION OF BRIDGE RAIL
(Left bridge rail shown, right bridge rail similar)
Longitudinal dimensions are horizontal.
Dimensions measured along back of curb.



DATE PREPARED: 3/25/2025

ROUTE	STATE
B	MO
DISTRICT	SHEET NO.
BR	12
COUNTY	
PLATTE	
JOB NO.	J4S3492
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	A9335

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Bill of Reinforcing Steel																			
No. Req.	Size/Mark	Location	Codes			Dimensions							Nom. Length ft in.	Actual Length ft in.	Weight lb				
			C	SH	V	B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.							
Substructure																			
Int Bent 2																			
46	6 D200	DOWEL		20		2	6.00						2	6	2	6	173		
8	7 H200	BEAM		18		3	2.00						3	8	10	38	10	635	
4	6 H201	BEAM		20		3	2.00						3	7	2	37	2	223	
8	7 H202	BEAM		18		6	8.25						8	4	8	4	136		
8	6 H203	BEAM		10S				12.00	2	6.00			4	6	4	2	50		
2	6 H204	ENCASEMENT		18		3	4	9.75					3	6	2	36	2	109	
10	4 H205	ENCASEMENT		20		3	4	9.75					3	4	10	34	10	233	
12	4 H206	ENCASEMENT		7		2	2.00	2	7.50				3	0.00	20.00	7	6	11	55
26	5 U200	BEAM		10S				2	5.25	2	6.00		7	5	7	2	194		
12	5 U201	BEAM		10S				2	6.25	2	6.00		7	7	7	4	92		
56	5 U202	ENCASEMENT		19S		7	3.00	17.50					8	9	8	7	501		
24	4 V200	ENCASEMENT		20		6	11.00						6	11	6	11	111		
Int Bent 3																			
46	6 D300	DOWEL		20		2	6.00						2	6	2	6	173		
8	8 H300	BEAM		18		3	2.00						3	9	3	39	833		
4	6 H301	BEAM		20		3	2.00						3	7	2	37	2	223	
4	8 H302	BEAM		18		8	3.25						10	1	10	1	108		
8	6 H303	BEAM		10S				12.00	2	6.00			4	6	4	2	50		
2	7 H304	ENCASEMENT		18		3	4	9.75					3	6	3	6	149		
10	4 H305	ENCASEMENT		20		3	4	9.75					3	4	10	34	10	233	
12	4 H306	ENCASEMENT		7		2	2.00	2	7.50				3	0.00	20.00	7	6	11	55
4	8 H307	ENCASEMENT		20		4	4.00						4	4	4	4	46		
24	5 U300	BEAM		10S				2	5.25	2	6.00		7	5	7	2	179		
13	5 U301	BEAM		10S				2	6.25	2	6.00		7	7	7	4	99		
60	5 U302	ENCASEMENT		19S		7	6.25	17.50					9	8	10	553			
24	4 V300	ENCASEMENT		20		7	2.25						7	2	7	2	115		
Superstructure																			
End Bent 1																			
7	6 F100	WING BRACE	E 23S			14.00	7	2.00	14.00	6.00	12.75	6.00	12.75	9	6	9	6	100	
7	6 F101	WING BRACE	E 23S			14.00	3	6.00	14.00	12.75	6.00	12.75	6.00	5	10	5	9	60	
1	6 F102	WING BRACE	E 19			3	6.50	5	7.00				9	2	9	14			
1	6 F103	WING BRACE	E 19			3	5.75	5	11.00				9	5	9	3	14		
20	6 H100	BEAM	E 20			3	7.00						3	7	2	37	2	1,116	
8	6 H101	WING	E 18			6	11.25						8	3	8	3	99		
16	8 H102	WING	E 20			8	6.00						8	6	8	6	363		
32	6 H103	WING	E 20			7	8.00						7	8	7	8	368		
26	5 H104	APPROACH NOTCH	E 19S			2	0.00	15.00					3	3	3	2	86		
60	5 U100	BEAM	E 10S			3	1.50	3	7.00				9	10	9	7	600		
17	5 U101	BEAM	E 10S			3	10.75	3	7.00				11	5	11	2	198		
45	6 U102	SLAB/BEAM	E 19S			4	0.00	4	6.50				8	7	8	5	569		
47	6 U103	BEAM	E 10S			3	11.50	2	11.25				10	10	10	6	741		
47	6 U104	BEAM	E 19S			2	7.00	3	5.00				6	5	5	10	412		
14	6 V100	WING	E 20			5	3.00						5	3	5	3	110		
14	6 V101	WING	E 20			5	5.00						5	5	5	5	114		
End Bent 4																			
7	6 F400	WING BRACE	E 23S			14.00	7	2.00	14.00	6.00	12.75	6.00	12.75	9	6	9	6	100	
7	6 F401	WING BRACE	E 23S			14.00	3	6.00	14.00	12.75	6.00	12.75	6.00	5	10	5	9	60	
1	6 F102	WING BRACE	E 19			3	6.50	5	7.00				9	2	9	14			
1	6 F103	WING BRACE	E 19			3	5.75	5	11.00				9	5	9	3	14		
20	6 H400	BEAM	E 20			3	7.00						3	7	2	37	2	1,116	
8	6 H401	WING	E 18			6	11.25						8	3	8	3	99		
8	8 H402	WING	E 20			8	6.00						8	6	8	6	182		
16	6 H403	WING	E 20			7	8.00						7	8	7	8	184		
26	5 H404	APPROACH NOTCH	E 19S			2	0.00	15.00					3	3	3	2	86		
60	5 U400	BEAM	E 10S			3	1.50	3	7.00				9	10	9	7	600		
17	5 U401	BEAM	E 10S			3	10.75	3	7.00				11	5	11	2	198		

Nominal lengths are based on out to out dimensions shown in bending diagrams and are listed to the nearest inch for fabricator's use. Actual lengths are measured along centerline bar to the nearest inch. Weights are based on actual lengths.

For bending diagrams and steel reinforcing totals, see Sheet No. 16.

Detailed Jan. 2025
Checked Feb. 2025

All bars shall be Grade 60.

BILL OF REINFORCING STEEL

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

Sheet No. 16 of 18

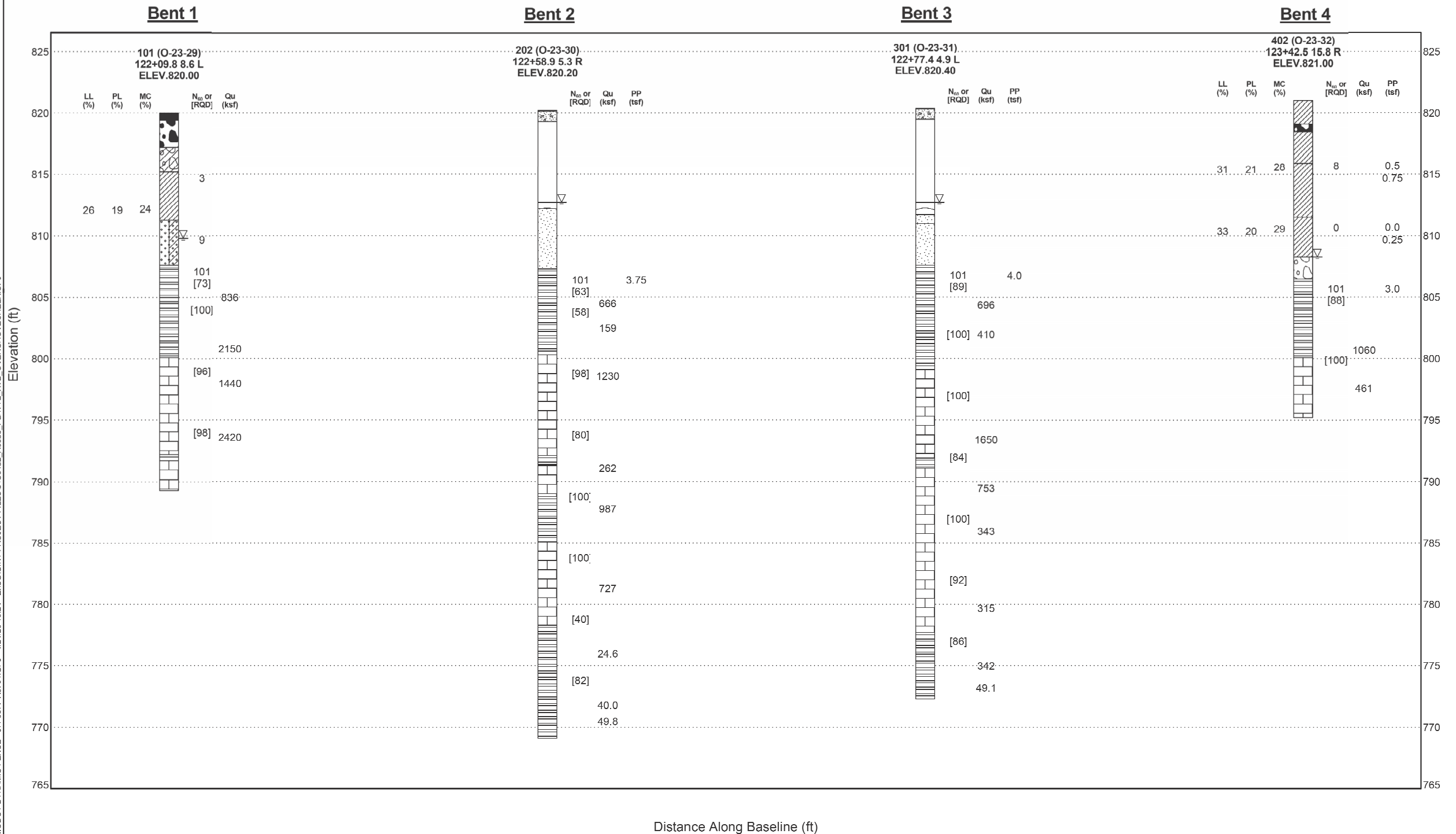
Bill of Reinforcing Steel																						
No. Req.	Size/Mark	Location	Codes			Dimensions							Nom. Length ft in.	Actual Length ft in.	Weight lb							
			C	SH	V	B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.										
45	6 U402	BEAM	E 19S			4	0.00	4	6.50							8	7	8	5	569		
47	5 U403	BEAM	E 10S			3	11.50	2	11.25							10	10	10	8	523		
47	6 U404	BEAM	E 19S			2	7.00	3	5.00							6	5	10	412			
14	6 V400	WING	E 20			5	6.25									5	6	5	6	116		
14	6 V401	WING	E 20			5	4.00									5	4	5	4	112		
Slab																						
50	8 S1	SLAB	E 20			60	0.00									60	60			8,010		
50	8 S2	SLAB	E 20			55	0.25									55	55			7,343		
44	8 S3	DROP PANEL	E 20			26	5.50									26	6	26	6	3,113		
44	8 S4	SLAB	E 20			29	11.50									30	30			3,524		
44	8 S5	SLAB	E 20			26	3.00									26	3	26	3	3,084		
241	5 S6	SLAB	E 20			37	1.00									37	1	37	1	9,321		
116	5 S7	SLAB	E 9S			2	3.00	2	1.00	4	6.00	9.00			2	0.00	7.00	9	7	9	6	1,149
58	5 S8	SLAB	E 20			5	5.50									5	6	5	6	333		
88	8 S9	SLAB	E 20			22	0.00									22	22			5,169		
Barrier																						
Type D																						
20	5 K1	BARRIER	E 37S			23.00										4	10	4	7	96		
22	5 K2	BARRIER	E 37S			23.00										4	10	4	7	105		
4	5 K3	BARRIER	E 27S			22.50	9.25	14.50	7.75	12.00	14.25	2.75				5	6	5	2	22		
20	5 K4	BARRIER	E 19S	4		2	4.25	10.00								3	2	3	1			
		Incr. = 0.500"				2	6.25	10.00								3	4	3	3	66		
20	5 K5	BARRIER	E 38S	4				18.50	9.50	8.25	18.00	4.00				3	2	10				
		Incr. = 0.750"						20.50	9.50	8.25	20.00	4.50				3	2	3	1	62		
12	5 K6	BARRIER	E 19S			2	6.75	10.00								3	5	3	3	41		
12	5 K7	BARRIER	E 21S			10.00		10.00								3	6	3	4	42		
36	5 K8	BARRIER	E 19S	4		2	8.50	10.00								3	7	3	5			
		Incr. = 0.750"				3	2.50	10.00								4	1	3	11	138		
36	5 K9	BARRIER	E 21S	4				10.00	10.00</													



SUBSURFACE DIAGRAM

PROJECT NAME Bridge Replacement
 PROJECT LOCATION Over Grove Creek
 CLIENT _____
 PROJECT NUMBER J4S3492

Asphalt	USCS Well-graded Gravel	USCS Clayey Gravel
USCS Low Plasticity Clay	USCS Well-graded Sand with Clay	Shale
Limestone	Concrete	No Core
Water	USCS Poorly-graded Sand	Boulders and cobbles



MODOT DYNAMIC FENCE - J7P0677-A8701.GPJ - 4/24/23 15:24 - Z:\SG\GINT\PROJECT FILES\J4S3492_A9335_PLATTE RTB OVERGROVECREEK.GPJ

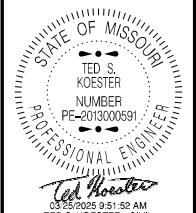
BORING DATA

Note: For locations of borings, see Sheet No. 1.

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

Sheet No. 18 of 18

Detailed Jan. 2025
 Checked Feb. 2025



DATE PREPARED
 3/25/2025
 ROUTE B STATE MO
 DISTRICT BR SHEET NO. 18
 COUNTY PLATTE
 JOB NO. J4S3492
 CONTRACT ID. _____
 PROJECT NO. _____
 BRIDGE NO. A9335

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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