

**DESIGN DESIGNATION**

A.A.D.T. - 2026 = 1935  
 A.A.D.T. - 2036 = 2216  
 D.H.V. = 11.41%  
 T = 4.13%  
 V = 55 M.P.H.  
 D = 50%

FUNCTIONAL CLASSIFICATION-MAJOR COLLECTOR

**NO NEW RIGHT-OF-WAY**

**MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
 PLANS FOR PROPOSED  
 STATE HIGHWAY**

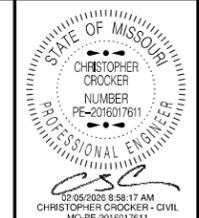


**KEY MAP**  
 LOCATION OF CAPE GIRARDEAU COUNTY

**CAPE GIRARDEAU COUNTY**

**INDEX OF SHEETS**

DESCRIPTION	SHEET NUMBER
TITLE SHEET .....	1
TYPICAL SECTIONS (TS) (1 SHEET)--	2
QUANTITIES (QU) (2 SHEETS)-----	3
PLAN-PROFILE (PP)-----	4
REFERENCE POINTS (RP)-----	5
SPECIAL SHEETS (SS)-----	6
EROSION CONTROL SHEETS (EC)-----	7
TRAFFIC CONTROL SHEETS (TC)-----	8
BRIDGE DRAWINGS (B)	
A9640-----	1-34



DATE PREPARED  
**2/5/2026**

ROUTE	STATE
OO	MO
DISTRICT	SHEET NO.
SE	1

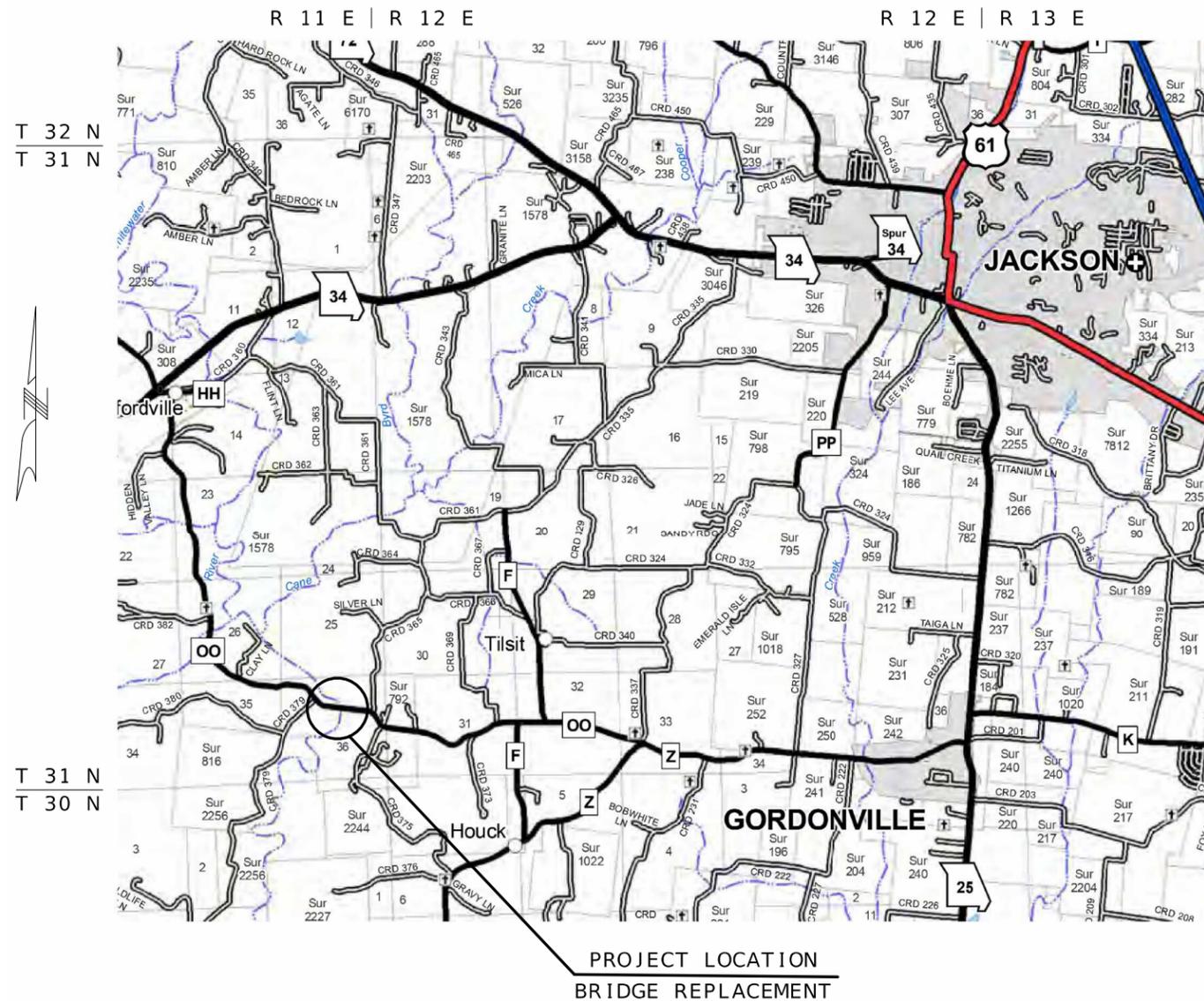
COUNTY  
**CAPE GIRARDEAU**

JOB NO.  
**JSE0030**

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



**PROJECT LOCATION  
 BRIDGE REPLACEMENT**

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.

**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

**LENGTH OF PROJECT**

BEGINNING OF PROJECT	STA 221+85.86
END OF PROJECT	STA 229+20.42

APPARENT LENGTH 734.56 FEET

EQUATIONS AND EXCEPTIONS:

TOTAL CORRECTIONS	00.00 FEET
NET LENGTH OF PROJECT	734.56 FEET
STATE LENGTH	0.139 MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	2.5 ACRES

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

REV.



CLEARING AND GRUBBING
NO DIRECT PAY FOR CLEARING AND GRUBBING

MOBILIZATION
LUMP SUM ONE

REMOVAL OF IMPROVEMENTS	
DESCRIPTION	REMARKS
1000 SY ROADWAY PVMT	EXISTING ASPHALT PAVEMENT
680' OF GUARDRAIL	INCLUDES CET, TRANSITION, AND ANCHOR
LUMP SUM ONE	

CONTRACTOR FURNISHED SURVEYING AND STAKING
LUMP SUM ONE

GRAVEL A OR CRUSHED STONE B					
SHEET	STA	LOC	THICK (IN)	GRAVEL A CRUSHED STONE B (TON)	REMARKS
*ADD QUANTITY				10.0	
TOTAL				10	
* LOCATIONS TO BE DETERMINED BY THE ENGINEER.					

MODIFIED LINEAR GRADING CLASS 2								
SHEET	STA	STA	LOC	LENGTH (FT)	MOD LINEAR GRADING CLASS 2 (STA)	APPROX EARTHWORK		REMARKS
						CUT CY	FILL CY	
4	221+00.00	232+80.00	CL	1180.00	11.80	304.1	1663.9	
TOTAL				11.8				

TYPE 2 ROCK BLANKET								
SHEET	SECTION	DEPTH (FT)	AVG WIDTH (FT)	LENGTH (FT)	TYPE 2 ROCK BLANKET		GEOTEXTILE FABRIC (SY)	REMARKS
					FURNISH (CY)	PLACE (CY)		
7	A-A TO B-B	2	42.5	32	100.7	100.7	183.1	
7	B-B TO C-C	2	48.0	22	78.2	78.2	134.4	
7	C-C TO D-D	2	51.0	29	109.6	109.6	186.9	
7	D-D TO E-E	2	48.0	22	78.2	78.2	134.4	
7	E-E TO F-F	2	42.5	32	100.7	100.7	183.1	
7	G-G TO H-H	2	59.5	54	238.0	238.0	411.0	
7	H-H TO I-I	2	87.0	22	141.8	141.8	234.7	
7	I-I TO J-J	2	95.0	29	204.1	204.1	328.7	
7	J-J TO K-K	2	87.0	22	141.8	141.8	229.8	
7	K-K TO L-L	2	59.5	54	238.0	238.0	399.0	
TOTAL					1432	1432	2426	

OPTIONAL PAVEMENT AND AGGREGATE BASE								
SHEET	STA	STA	LOC	LENGTH (FT)	WIDTH (FT)	OPTIONAL	6" TYPE 5	REMARKS
						PAVT (SY)	AGGR (SY)	
6	221+85.86	222+87.50	CL	101.64	26.00	293.63	293.6	
6	226+76.00	229+20.42	CL	244.42	26.00	706.10	706.1	
TOTAL						999.8	1000	

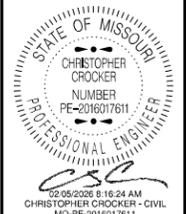
GUARDRAIL								
SHEET	STA	STA	LOC	MGS GUARDRAIL FT	MGS BRIDGE	TYPE A	MODIFIED	REMARKS
					APPROACH SECTION EA	CRASHWORTHY END TERMINAL (MASH) EA	SHAPING SLOPES CLASS III (100F)	
6	221+30.00	223+07.50	LT	87.5	1	1	1.8	
6	221+30.00	223+07.50	RT	87.5	1	1	1.8	
6	226+56.00	232+50.00	LT	500.0	1	1	5.9	
6	226+56.00	229+50.00	RT	200.0	1	1	2.9	
TOTAL				875	4	4	12	

PAVEMENT MARKING							
STA	STA	LENGTH (FT)	LOC	CLASS 1 HIGH BUILD PAINT TYPE P BEADS			REMARKS
				4" INT YELLOW (LF)	4" SOLID YELLOW (LF)	4" SOLID WHITE (LF)	
221+85.86	229+20.42	734.56	CL	183.6	225.0		CENTERLINE
221+85.86	229+20.42	734.56	LT/RT			1469.1	EDGE LINE
TOTAL				409		1470	

TEMPORARY EROSION CONTROL					
SHEET	SILT FENCE (LF)	ROCK DITCH CHECK (LF)	SEDIMENT REMOAVL (CY)	TEMPORARY SEEDING (ACRE)	MULCHING (ACRE)
7	1571.9	40.0	19.7	1.5	1.5
TOTAL	1572	40	20	1.5	1.5

SEEDING AND MULCH						
SHEET	STA	STA	LOC	SEEDING	MULCHING	REMARKS
				COOL SEASON GRASSES (ACRE)		
4	221+00.00	232+80.00	LT	0.86	0.86	
4	221+00.00	229+80.00	RT	0.59	0.59	
TOTAL				1.5	1.5	
NOTE: SEEDING ACRES FOR INFORMATION ONLY						

POROUS BACKFILL				
SHEET	STA	LOC	POROUS BACKFILL (CY)	REMARKS
6	223+07.50	CL	24.1	
6	226+56.00	CL	24.1	
TOTAL			49	
POROUS BACKFILL SHALL BE GRADES 3,4, OR 5.				



DATE PREPARED  
1/30/2026  
ROUTE STATE  
OO MO  
DISTRICT SHEET NO.  
SE 3  
COUNTY  
CAPE GIRARDEAU  
JOB NO.  
JSE0030  
CONTRACT ID.

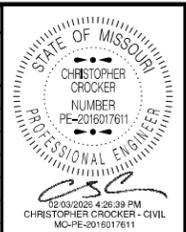
PROJECT NO.  
BRIDGE NO.

DESCRIPTION	DATE

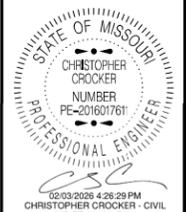
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
105 WEST CAPITOL JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

QUANTITY SHEET  
SHEET 1 OF 2

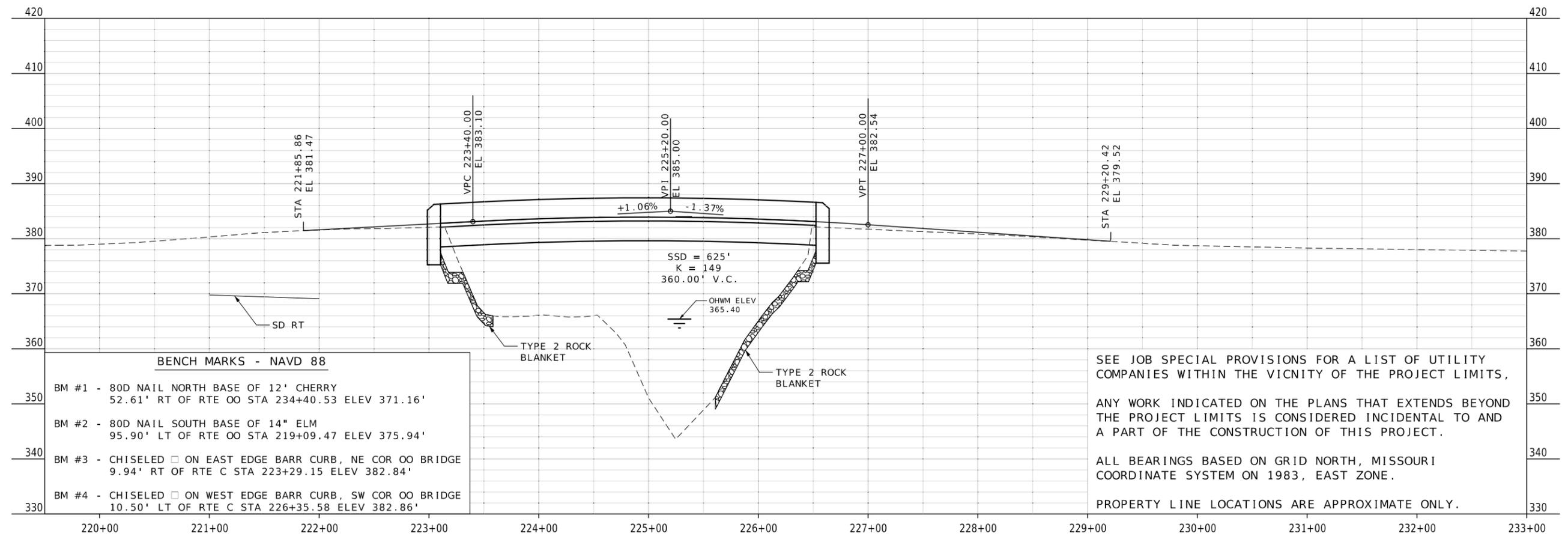
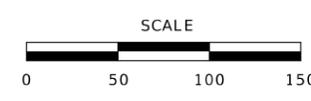
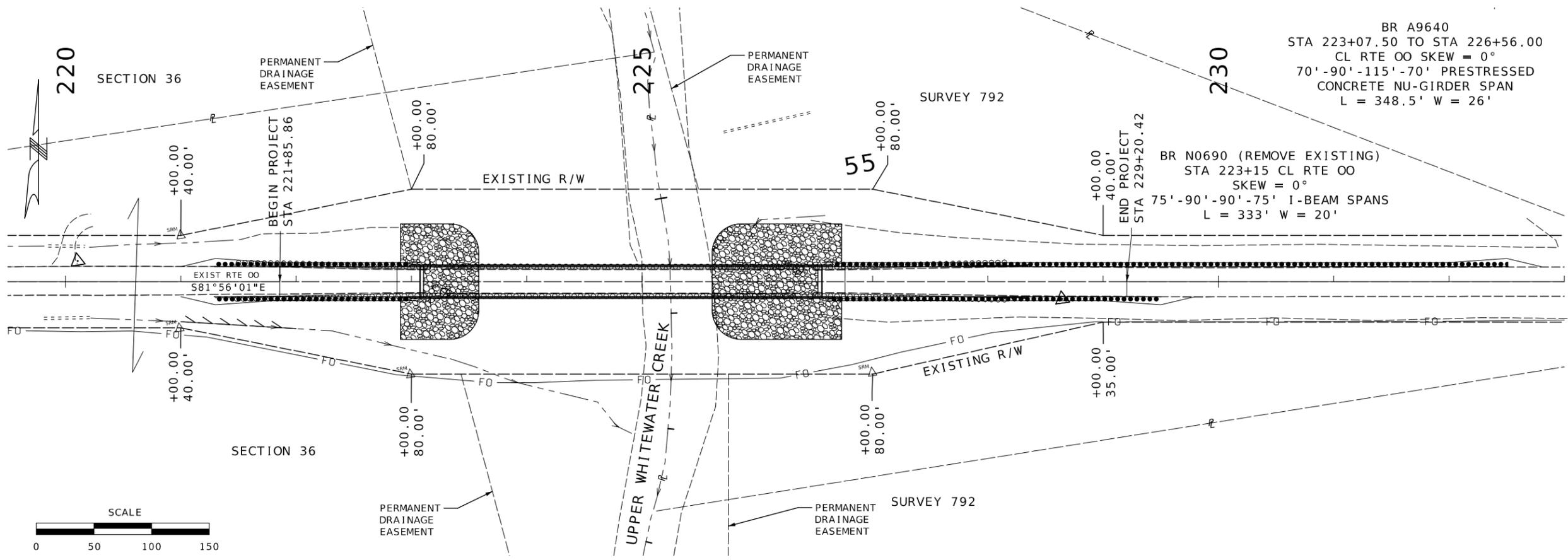
WARNING SIGNS										GUIDE SIGNS										EFFECTIVE: 07-01-2025		
SIGN	SIZE	AREA	QTY	TOTAL	QTY	TOTAL	SIGN	DESCRIPTION		SIGN	SIZE	AREA	QTY	TOTAL	QTY	TOTAL	SIGN	DESCRIPTION	ITEM	TOTAL	DESCRIPTION	
IN.	SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NO.				IN.	SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NO.			NUMBER	QTY		
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)		E05-1	36X48	12.00						GORE EXIT	6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)	
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)		E05-2	48X36	12.00						EXIT OPEN	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)	
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)		E05-2a	48X36	12.00						EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)	
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)		GO20-1	60X24	10.00						ROAD WORK NEXT XX MILES	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)	
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)		GO20-2	48X24	8.00						END ROAD WORK	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)	
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)		GO20-4	36X18	4.50						PILOT CAR FOLLOW ME	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)	
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)		GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)	
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)		GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL	
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)		GO20-5aP	36X24	6.00						WORK ZONE (PLAQUE)	6122030		IMPACT ATTENUATOR (RELOCATION)	
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)		MO4-8a	24X18	3.00	2	6.00				END DETOUR	6122040		WORK ZONE CRASH CUSHION (NARROW)	
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)		MO4-9L	48X36	12.00						DETOUR (LEFT)	6122041		WORK ZONE CRASH CUSHION (RELOCATION)	
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)		MO4-9R	48X36	12.00						DETOUR (RIGHT)	6123001		TRUCK MOUNTED ATTENUATOR (TMA)	
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)		MO4-9P	48X12	4.00						STREET NAME (PLAQUE)	6161012		BUOYS (BOATS KEEP OUT)	
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)		MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)	6161013		BUOYS (NO WAKE)	
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)		MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)	
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)		REGULATORY SIGNS										6161020		CHANNELIZER (DRUM-LIKE)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)		REGULATORY SIGNS										6161022		CHANNELIZER (CONE)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)		R1-1	48X48	13.25							STOP	6161025		CHANNELIZER (TRIM-LINE)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)		R1-2	48TRI.	6.93							YIELD	6161026		CHANNELIZER (VERTICAL PANEL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)		R1-2a	36X36	9.00							TO ONCOMING TRAFFIC (PLAQUE)	6161030	10	TYPE 3 MOVEABLE BARRICADE
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)		R1-3P	30X12	2.50							ALL WAY (PLAQUE)	6161033		DIRECTION INDICATOR BARRICADE
WO3-4	48X48	16.00						BE PREPARED TO STOP		R2-1	36X48	12.00							SPEED LIMIT XX	6161040		FLASHING ARROW PANEL
WO3-5	48X48	16.00						SPEED LIMIT AHEAD		R3-1	48X48	16.00							NO RIGHT TURN (SYMBOL)	6161047		TYPE 3 OBJECT MARKER
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)		R3-2	48X48	16.00							NO LEFT TURN (SYMBOL)	6161055		SEQUENTIAL FLASHING WARNING LIGHT
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)		R3-3	36X36	9.00							NO TURNS	6161070		TUBULAR MARKER
WO4-1aL	48X48	16.00						MERGE (LEFT)		R3-4	48X48	16.00							NO U-TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM
WO4-1aR	48X48	16.00						MERGE (RIGHT)		R3-7L	30X30	6.25							LEFT LANE MUST TURN LEFT	6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS		R3-7R	30X30	6.25							RIGHT LANE MUST TURN RIGHT	6161098A	2	INTERFACE, CONTRACTOR FURNISHED/RETAINED
WO5-3	48X48	16.00						ONE LANE BRIDGE		R4-1	36X48	12.00							DO NOT PASS	6161099		CHANGEABLE MESSAGE SIGN WITHOUT COMM.
WO5-5	48X48	16.00						NARROW LANES		R4-2	36X48	12.00							PASS WITH CARE	6162000A		CHANGEABLE MESSAGE SIGN WITH COMM.
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)		R4-7a	36X48	12.00							KEEP RIGHT (HORIZONTAL ARROW)	6162002		INTERFACE, CONTRACTOR FURNISHED/RETAINED
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)		R4-8a	36X48	12.00							KEEP LEFT (HORIZONTAL ARROW)	6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)		R5-1	30X30	6.25							DO NOT ENTER	6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)		R5-1a	36X24	6.00							WRONG WAY	6173600D		TEMPORARY TRAFFIC BARRIER, CONTRACTOR FURNISHED/RETAINED
WO8-1	48X48	16.00						BUMP		R6-1L	54X18	6.75							ONE WAY ARROW (LEFT)	6173700B		TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED
WO8-2	48X48	16.00						DIP		R6-1R	54X18	6.75							ONE WAY ARROW (RIGHT)	6173706		TEMP. TRAFFIC BARRIER STIFFNESS TRANSITION, CONTRACTOR FURNISHED/RETAINED
WO8-3	48X48	16.00						PAVEMENT ENDS		R6-2L	24X30	5.00							ONE WAY (LEFT)	6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION, CONTRACTOR FURNISHED/RETAINED
WO8-4	48X48	16.00						SOFT SHOULDER		R6-2R	24X30	5.00							ONE WAY (RIGHT)	6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)		R9-9	24X12	2.00							SIDEWALK CLOSED	6175011B		RELOCATING TEMP. TRAFFIC BARRIER ANCHORED
WO8-6	48X48	16.00						TRUCK CROSSING		R9-11L	24X18	3.00							SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE	6175013		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS
WO8-6c	48X48	16.00						TRUCK ENTRANCE		R9-11R	24X18	3.00							SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE	6175020A		RELOCATING TEMP. TRAFFIC BARRIER HEIGHT
WO8-7	36X36	9.00						LOOSE GRAVEL		R10-6	24X36	6.00							STOP HERE ON RED (45° ARROW)	6208064A		TEMPORARY RAISED PAVEMENT MARKER
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL		R11-2	48X30	10.00	2	20.00					ROAD CLOSED	9029400		TEMPORARY TRAFFIC SIGNALS
WO8-9	48X48	16.00						LOW SHOULDER		R11-3a	60X30	12.50	2	25.00					ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY	9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING
WO8-11	48X48	16.00						UNEVEN LANES		R11-4	60X30	12.50							ROAD CLOSED TO THRU TRAFFIC			
WO8-12	48X48	16.00						NO CENTER LINE		CONST-3A	60X48	20.00							FINE SIGN			
WO8-15	48X48	16.00						GROOVED PAVEMENT		CONST-3X	56X12	4.67							SPEEDING/PASSING (PLATE)			
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)		MISCELLANEOUS SIGNS												
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)		CONST-5	48X36	12.00							POINT OF PRESENCE			
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)		CONST-5	96X48	32.00							POINT OF PRESENCE			
WO10-1	42RND.	9.62						RAILROAD CROSSING		CONST-8	48X36	12.00							WORK ZONE NO PHONE ZONE			
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)		SPECIAL	96X48	32.00	2	64.00					RTE OO CLOSED 1000 FEET AHEAD			
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)		W20-3	48X48	16.00	2	32.00					ROAD CLOSED 500 FT			
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)			36X60	15.00	19	285.00					DETOUR BLANK			
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)		M1-5a	30X24	5.00	19	95.00					RTE OO			
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD		M6-1	21X15	2.19	10	21.90					STRAIGHT ARROW			
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD		M6-3	21X15	2.19	9	19.71					LT/RT ARROW			
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)		M5-1R	21X15	2.19	4	8.76					RT AHEAD			
WO16-2	30X24	5.00						XXX FEET (PLAQUE)		M5-1L	21X15	2.19	4	8.76					LT AHEAD			
WO16-3	30X24	5.00						X MILE (PLAQUE)		MISCELLANEOUS SIGNS												
WO20-1	48X48	16.00						ROAD/BRIDGE/RAMP WORK AHEAD		CONST-5	48X36	12.00							POINT OF PRESENCE			
WO20-2	48X48	16.00	2	32.00				DETOUR AHEAD		CONST-5	96X48	32.00							POINT OF PRESENCE			
WO20-3	48X48	16.00	2	32.00				ROAD CLOSED AHEAD		CONST-8	48X36	12.00							WORK ZONE NO PHONE ZONE			
WO20-4	48X48	16.00						ONE LANE ROAD AHEAD		SPECIAL	96X48	32.00	2	64.00					RTE OO CLOSED 1000 FEET AHEAD			
WO20-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD		W20-3	48X48	16.00	2	32.00					ROAD CLOSED 500 FT			
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD			36X60	15.00	19	285.00					DETOUR BLANK			
WO20-6a	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED		M1-5a	30X24	5.00	19	95.00					RTE OO			
WO20-7a	48X48	16.00						FLAGGER (SYMBOL)		M6-1	21X15	2.19	10	21.90					STRAIGHT ARROW			
WO21-2	36X36	9.00						FRESH OIL		M6-3	21X15	2.19	9	19.71					LT/RT ARROW			
WO21-5	48X48	16.00						SHOULDER WORK / SHOULDER WORK AHEAD		M5-1R	21X15	2.19	4	8.76					RT AHEAD			
WO22-1	48X48	16.00						BLASTING ZONE AHEAD		M5-1L	21X15	2.19	4	8.76					LT AHEAD			
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE		MISCELLANEOUS SIGNS												
WO22-3	42X36	10.50						END BLASTING ZONE		616-10.05					TOTAL							
GO22-1	21X15	2.19						WET PAINT (ARROW PIVOTS)		CONSTRUCTION SIGNS					651							
										616-10.10					TOTAL							
										RELOCATED SIGNS					*							



DATE PREPARED  
1/30/2026  
ROUTE OO STATE MO  
DISTRICT SE SHEET NO. 3  
COUNTY CAPE GIRARDEAU



DATE PREPARED 2/3/2026	
ROUTE OO	STATE MO
DISTRICT SE	SHEET NO. 4
COUNTY CAPE GIRARDEAU	
JOB NO. JSE0030	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



**BENCH MARKS - NAVD 88**

BM #1	- 80D NAIL NORTH BASE OF 12" CHERRY 52.61' RT OF RTE OO STA 234+40.53 ELEV 371.16'
BM #2	- 80D NAIL SOUTH BASE OF 14" ELM 95.90' LT OF RTE OO STA 219+09.47 ELEV 375.94'
BM #3	- CHISELED □ ON EAST EDGE BARR CURB, NE COR OO BRIDGE 9.94' RT OF RTE C STA 223+29.15 ELEV 382.84'
BM #4	- CHISELED □ ON WEST EDGE BARR CURB, SW COR OO BRIDGE 10.50' LT OF RTE C STA 226+35.58 ELEV 382.86'

SEE JOB SPECIAL PROVISIONS FOR A LIST OF UTILITY COMPANIES WITHIN THE VICINITY OF THE PROJECT LIMITS, ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

ALL BEARINGS BASED ON GRID NORTH, MISSOURI COORDINATE SYSTEM ON 1983, EAST ZONE.

PROPERTY LINE LOCATIONS ARE APPROXIMATE ONLY.

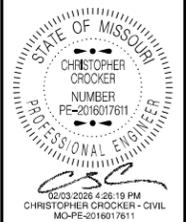
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PLAN SHEET  
SHEET 1 OF 1

COORDINATE POINT LISTING								
SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND)			DESCRIPTION	GPK POINT ID
				NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)		
<b>PROJECT CONTROL POINTS</b>								
	234+47.76	RTE OO	15.92' RT	542,426.4232	1,030,794.6900	375.91	Set 5/8" Rebar w/ Alum. Cap Stamped CP1	1
	228+64.82	RTE OO	15.01' RT	542,509.1847	1,030,217.2060	378.42	Set 5/8" Rebar w/ Alum. Cap Stamped CP2	2
	220+10.52	RTE OO	17.86' LT	542,661.5402	1,029,376.4090	377.28	Set 5/8" Rebar w/ Alum. Cap Stamped CP3	3
	214+30.10	RTE OO	15.67' RT	542,738.5955	1,028,799.1960	378.16	Set 5/8" Rebar w/ Alum. Cap Stamped CP4	4
	209+56.63	RTE OO	88.16' RT	543,032.6603	1,028,407.0590	375.87	Set 5/8" Rebar w/ Alum. Cap Stamped CP5	5
	242+55.89	RTE OO	13.22' LT	542,198.0884	1,031,551.0330	388.77	Set 5/8" Rebar w/ Alum. Cap Stamped CP6	6
<b>ALIGNMENTS</b>								
	207+00.00	RTE OO		543,290.761	1,028,323.321		BEGIN RTE OO	
	211+59.70	RTE OO		542,923.308	1,028,599.550		PC	
	216+09.70	RTE OO		542,700.099	1,028,977.049		PT	
	238+37.80	RTE OO		542,387.451	1,031,183.105		PC	
	244+04.80	RTE OO		542,064.662	1,031,621.242		PT	
	246+97.40	RTE OO		541,799.983	1,031,745.980		END RTE OO	



DATE PREPARED  
1/30/2026

ROUTE OO STATE MO  
DISTRICT SE SHEET NO. 5

COUNTY  
CAPE GIRARDEAU

JOB NO.  
JSE0030

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

ALL PROJECT COORDINATES HAVE BEEN PROJECTED FROM THE MISSOURI STATE PLANE COORDINATE (SPC) SYSTEM OF 1983 USING AN AVERAGE PROJECT PROJECTION (GRID TO GROUND) FACTOR. TO GET BACK TO STATE PLANE COORDINATES MULTIPLY THE PROJECT COORDINATES BY THE AVERAGE GRID FACTOR AS SHOWN IN THE "REFERENCE CONTROL INFORMATION" PORTION OF THIS TABLE.

PROJECT COORDINATE INFORMATION	
COORDINATE SYSTEM	MO SPC
HORIZONTAL DATUM	NAD83 2011
VERTICAL DATUM	NAVD88
GEOID MODEL	2018
ELEVATIONS DETERMINED BY	DIFFERENTIAL LEVELING
PROJECT PROJECTION FACTOR	1.00002976

REFERENCE CONTROL INFORMATION	
COORDINATE SYSTEM	MO SPC
CONTROL STATION	MOJK
DESIGNATION	MODOT JACKSON CROS ARP
CORS_ID	MOJK
PID	DL6890
LATITUDE	372444.45840
LONGITUDE	893900.22115
NORTHING (M)	175551.7720
EASTING (M)	325239.6700
ZONE	EAST
PROJECT AVERAGE GRID FACTOR	0.99997024

**EXAMPLE OF PROJECT COORDINATE TO S.P.C.**

PROJECT NORTHING X AVERAGE GRID FACTOR = STATE PLANE NORTHING  
 PROJECT EASTING X AVERAGE GRID FACTOR = STATE PLANE EASTING

EXAMPLE: CONTROL POINT #\_\_\_  
 N 599022.856 X 0.999957833 = N 598997.597  
 E 1016377.682 X 0.999957833 = E 1016334.825

**LINEAR UNIT CONVERSION**  
 1 METER = 3.280833333 US SURVEY FEET (USFT)

<p><b>CONTROL PT #1</b></p> <p>X = 1030794.6900'        Y = 542426.4232'        Z = 375.91'        STA 234+47.76        OFF 15.92' RT</p> <p>CP#1 - 5/8" REBAR W/ ALUMINUM CAP        EAST SIDE OF BR N0690        SOUTH OF RTE OO</p>	<p><b>CONTROL PT #2</b></p> <p>X = 1030217.2060'        Y = 542509.1847'        Z = 378.42'        STA 228+64.83        OFF 15.01' RT</p> <p>CP#2 - 5/8" REBAR W/ ALUMINUM CAP        EAST SIDE OF BR N0690        SOUTH OF RTE OO</p>	<p><b>CONTROL PT #3</b></p> <p>X = 1029376.4090'        Y = 542661.5402'        Z = 377.28'        STA 220+10.52        OFF 17.86' LT</p> <p>CP#3 - 5/8" REBAR W/ ALUMINUM CAP        WEST SIDE OF BR N0690        NORTH OF RTE OO</p>
<p><b>CONTROL PT #4</b></p> <p>X = 1028799.1960'        Y = 542738.5955'        Z = 378.16'        STA 214+30.10        OFF 15.67' RT</p> <p>CP#4 - 5/8" REBAR W/ ALUMINUM CAP        WEST SIDE OF BR N0690        SOUTH OF RTE OO</p>	<p><b>CONTROL PT #5</b></p> <p>X = 1028407.0590'        Y = 543032.6603'        Z = 375.87'        STA 209+56.63        OFF 88.16' RT</p> <p>CP#3 - 5/8" REBAR W/ ALUMINUM CAP        WEST SIDE OF BR N0690        NORTH OF RTE OO</p>	<p><b>CONTROL PT #4</b></p> <p>X = 1031551.0330'        Y = 542198.0884'        Z = 388.77'        STA 242+55.89        OFF 13.22' LT</p> <p>CP#4 - 5/8" REBAR W/ ALUMINUM CAP        EAST SIDE OF BR N0690        NORTH OF RTE OO</p>

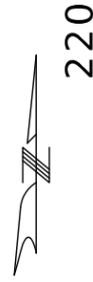
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

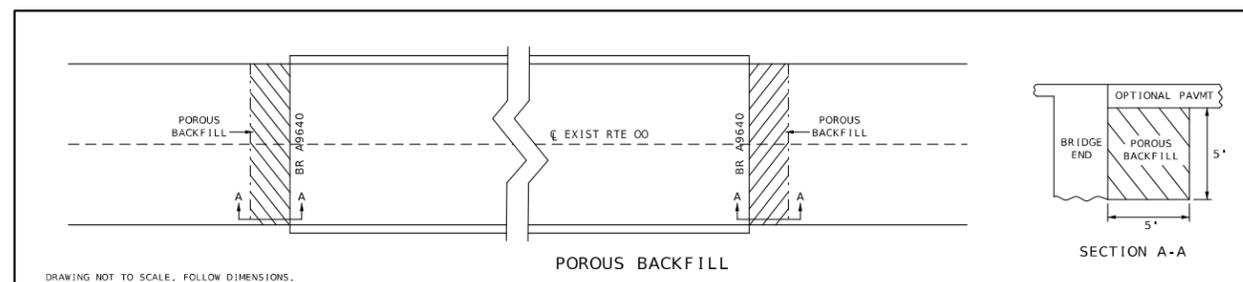
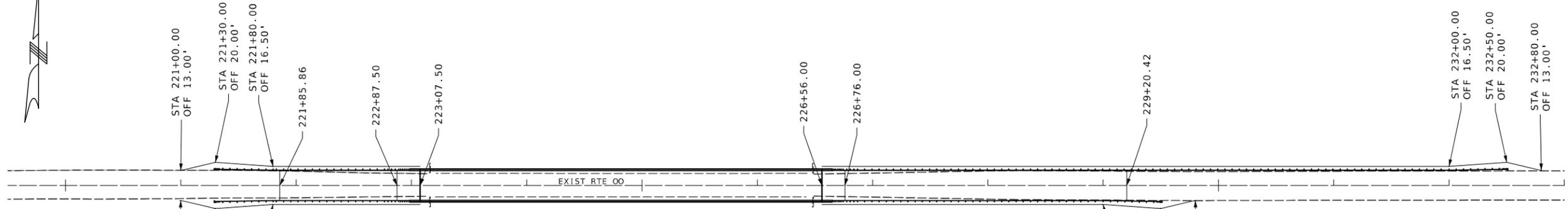
REFERENCE CONTROL INFORMATION  
 COORDINATE POINTS  
 CONTROL POINTS  
 SHEET 1 OF 1



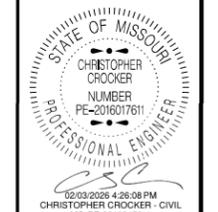
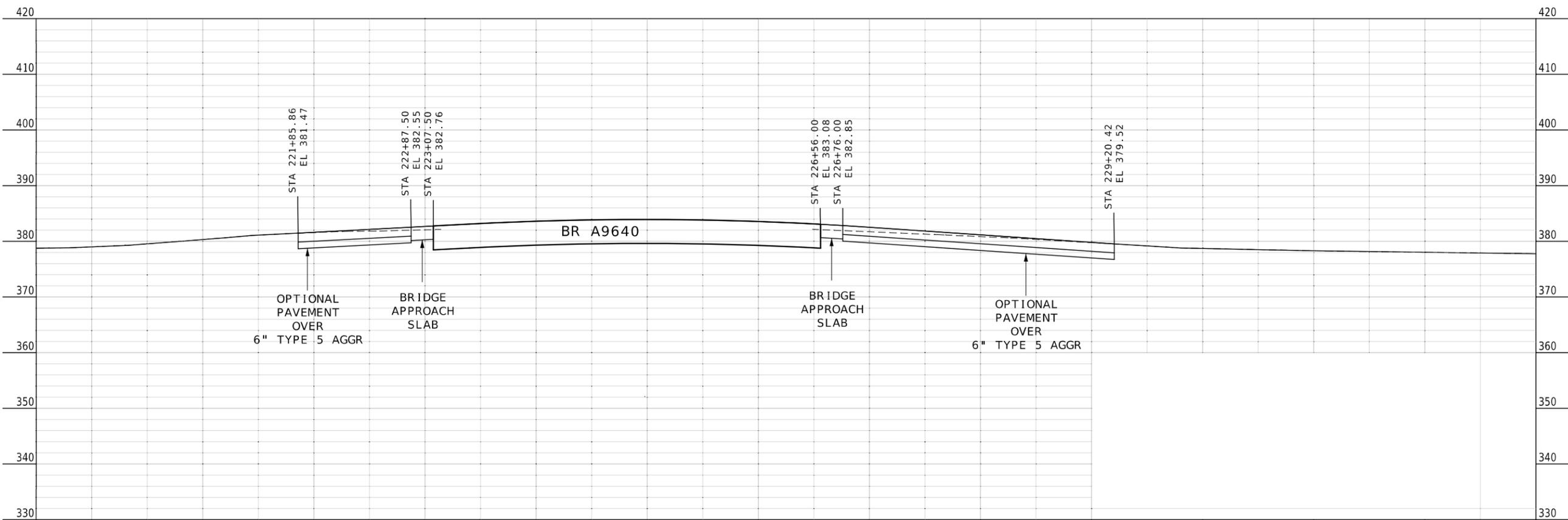
220

225

230



NOTE:  
NO DIRECT PAY WILL BE MADE FOR ANY SAW CUTS.



DATE PREPARED 1/30/2026	
ROUTE OO	STATE MO
DISTRICT SE	SHEET NO. 6
COUNTY CAPE GIRARDEAU	
JOB NO. JSE0030	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

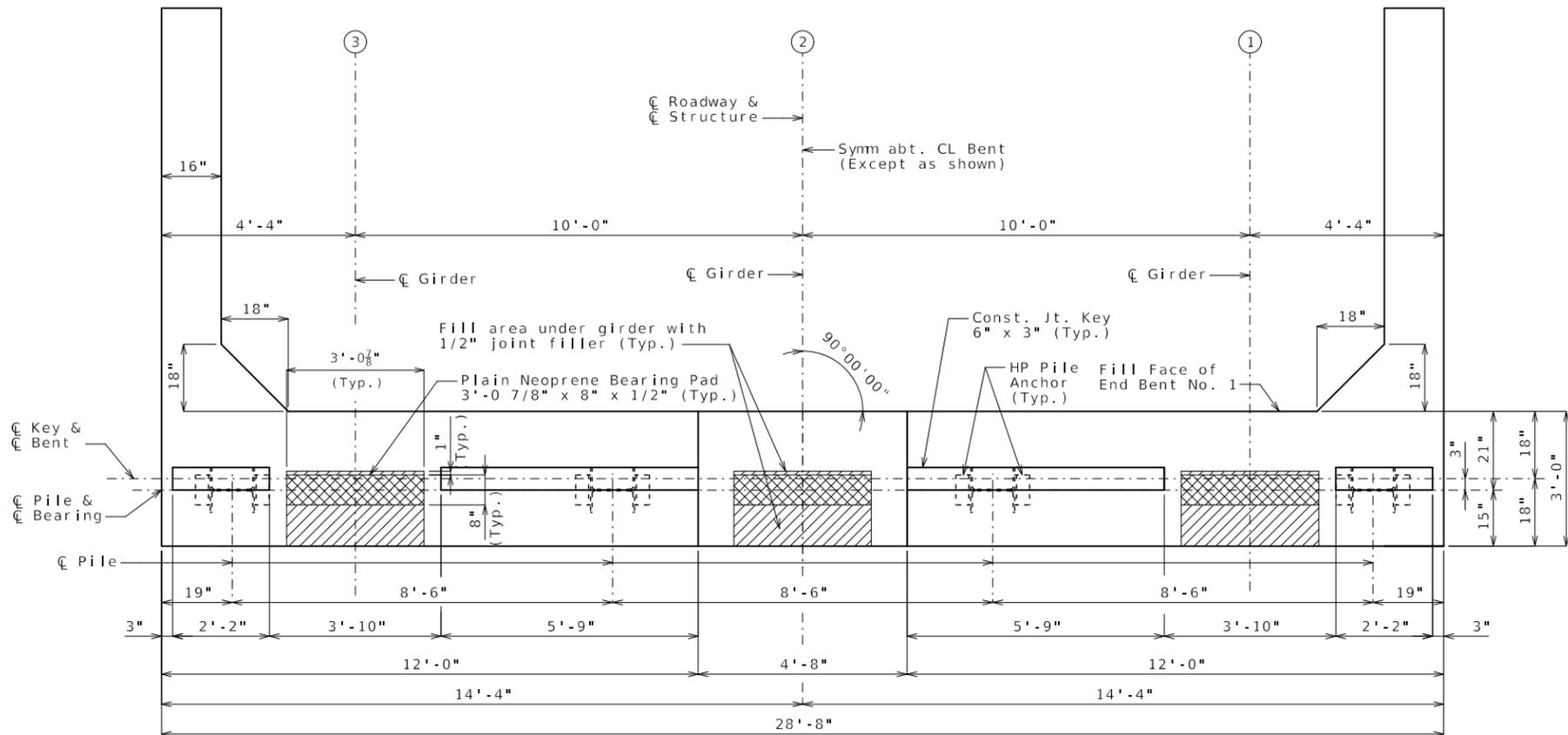
SPECIAL SHEET  
SHEET 1 OF 1



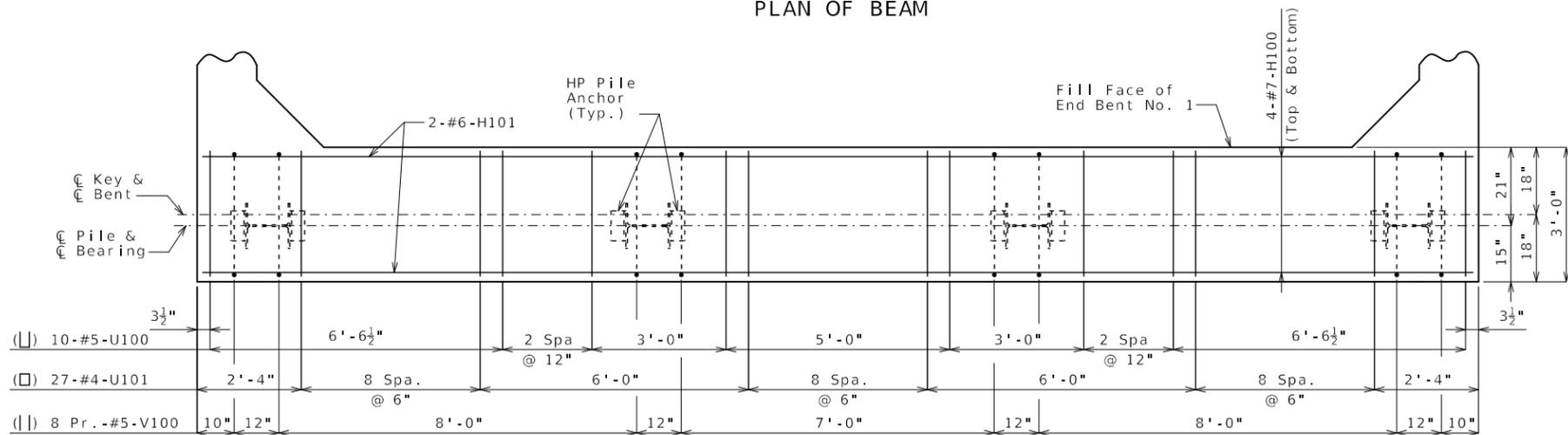




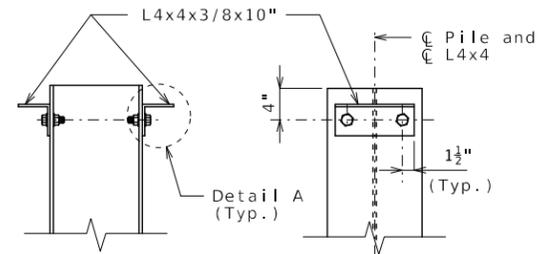




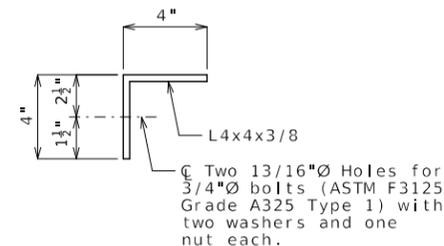
PLAN OF BEAM



PLAN OF BEAM SHOWING REINFORCEMENT  
(Steps & keys not shown for clarity)

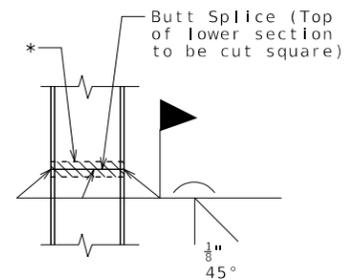


DETAILS OF HP PILE ANCHORS



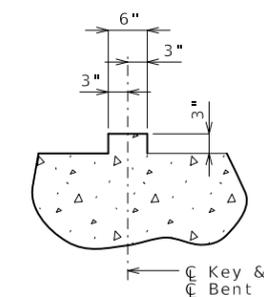
DETAIL A

Angles shall be coated with a minimum of two coats of non-aluminum epoxy mastic primer to provide a dry film thickness of 4 mils minimum, 8 mils maximum, or galvanized in accordance with Sec 1081. Bolts, washers and nuts shall be galvanized in accordance with AASHTO M 232 (ASTM A153), Class C.



STEEL PILE SPLICE  
(If required)

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



SECTION THRU KEY

Substructure Quantity Table for Bent No. 1		
Item	Quantity	
Class 1 Excavation	cu. yard	30
Galvanized Structural Steel Pile (12 in.)	linear foot	244
Pile Point Reinforcement	each	4
Class B Concrete (Substructure)	cu. yard	31.2

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

Notes:

Work this sheet with Sheets No. 4 & 5.

Reinforcing steel shall be shifted to clear piles. U bars shall clear piles by at least 1 1/2 inches.

The U bars and pairs V bars shall be placed parallel to centerline of roadway.

For details of vertical drain at end bent, see Sheet No. 6.

END BENT NO. 1

Detailed Oct. 2025  
Checked Nov. 2025

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

Sheet No. 3 of 34



DATE PREPARED  
2/19/2026

ROUTE OO MO  
DISTRICT BR SHEET NO. 3

COUNTY  
CAPE GIRARDEAU

JOB NO.  
JSE0030

CONTRACT ID.

PROJECT NO.

BRIDGE NO.  
A9640

DESCRIPTION

DATE

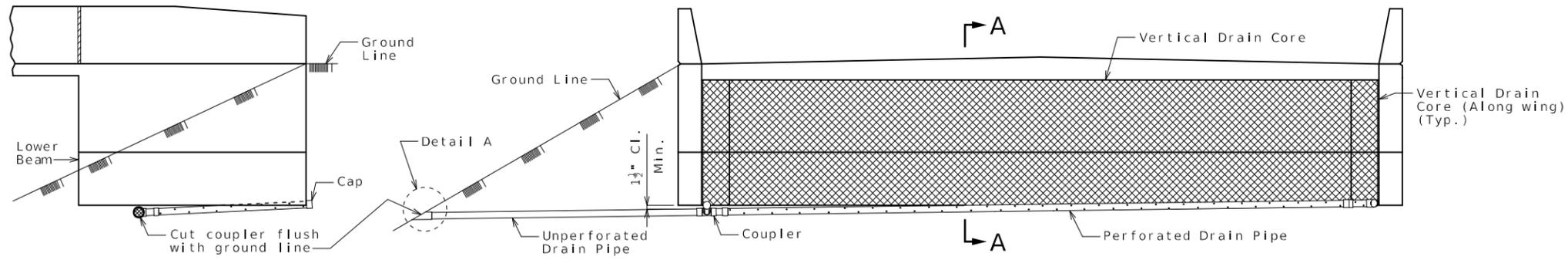
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



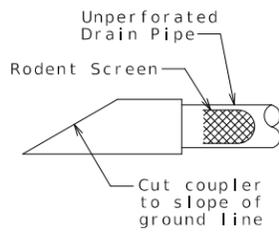




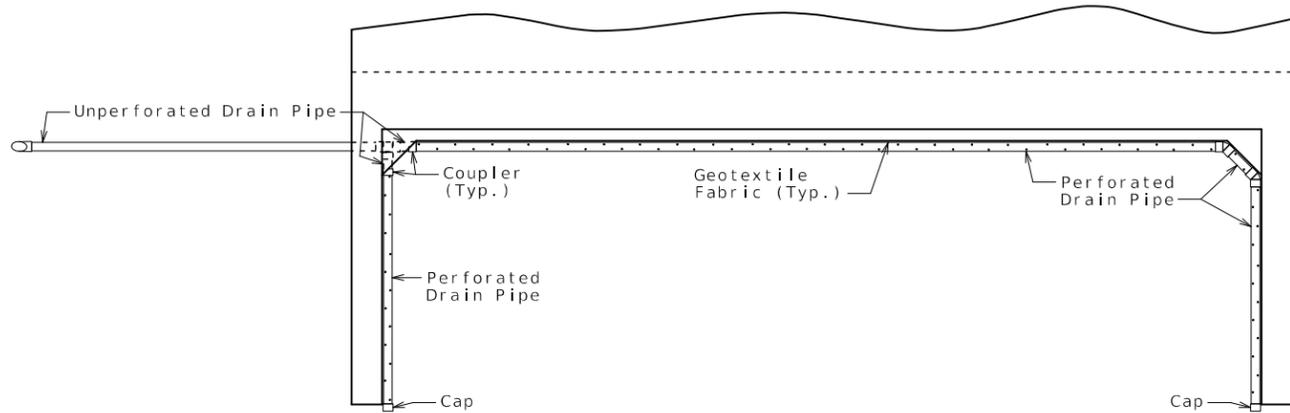


ELEVATION OF WING

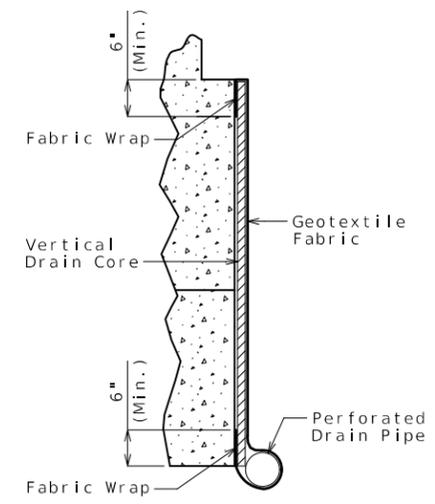
ELEVATION OF END BENT



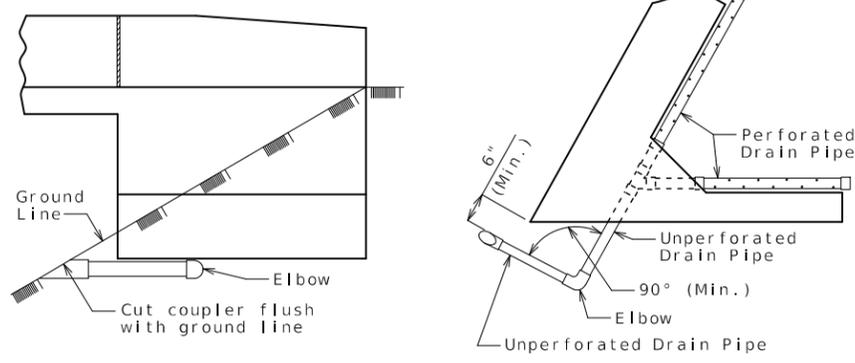
DETAIL A



PLAN OF END BENT



PART SECTION A-A  
(Section thru wing similar)



ELEVATION OF WING

PART PLAN

OPTIONAL TURNED DRAIN

(Use only when straight drain is not practical.)

**VERTICAL DRAIN AT END BENTS**

(Squared end bent shown, skewed end bent similar)

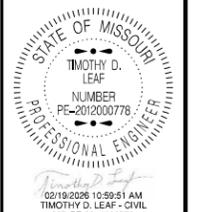
**General Notes:**

All drain pipe shall be sloped 1 to 2 percent.

Drain pipe may be either 6-inch diameter corrugated metallic-coated steel pipe underdrain, 4-inch diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4-inch diameter corrugated polyethylene (PE) drain pipe.

Drain pipe shall be placed at fill face of end bent and inside face of wings. The pipe shall slope to lowest grade of ground line, also missing the lower beam of end bent by a minimum of 1 1/2 inches.

Perforated pipe shall be placed at fill face side and inside face of wings at the bottom of end bent and plain pipe shall be used where the vertical drain ends to the exit at ground line.



DATE PREPARED 2/19/2026	
ROUTE OO	STATE MO
DISTRICT BR	SHEET NO. 6
COUNTY CAPE GIRARDEAU	
JOB NO. JSE0030	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9640	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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





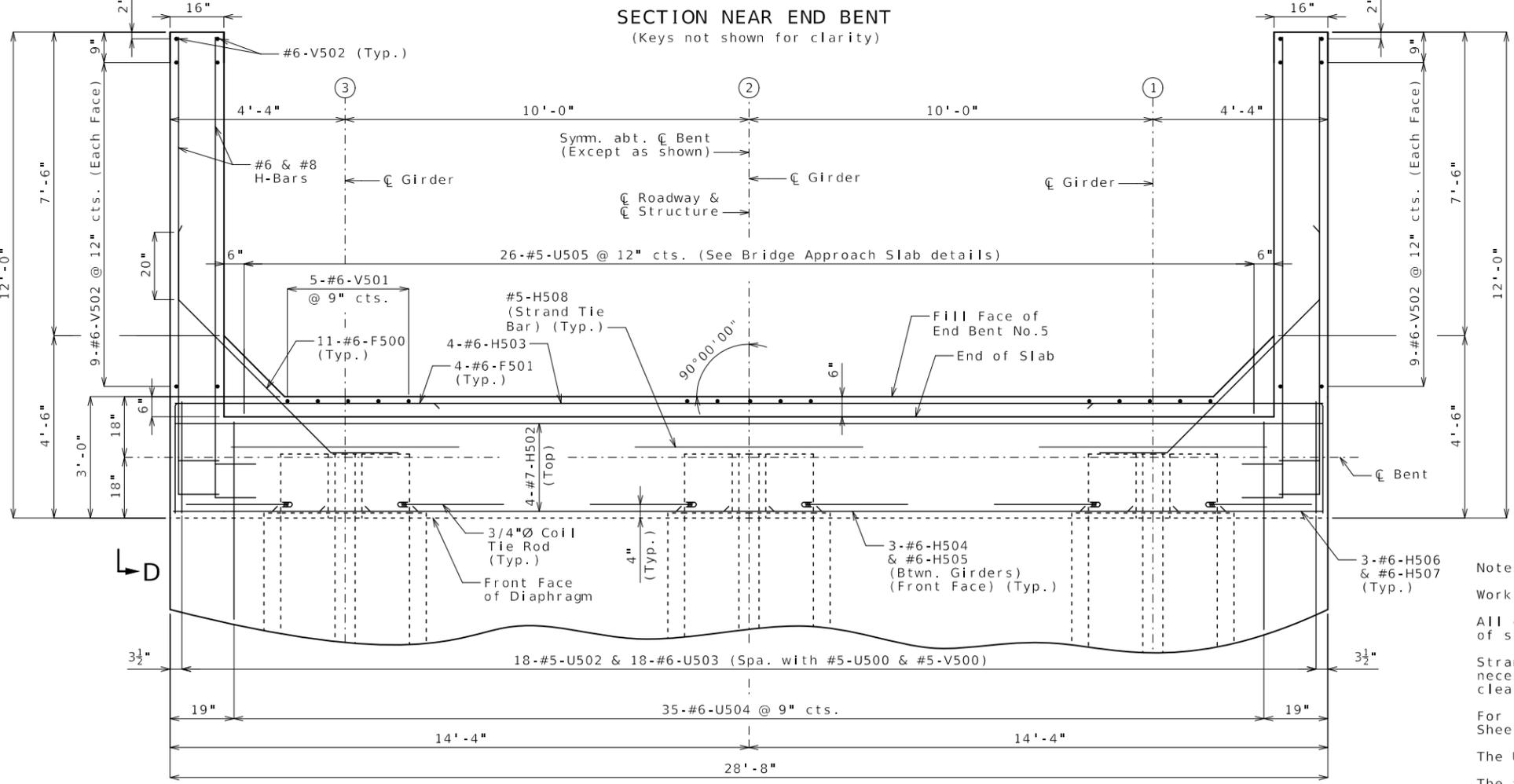
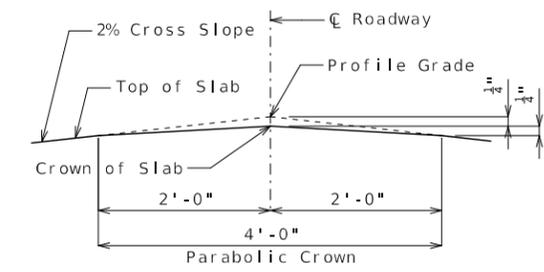
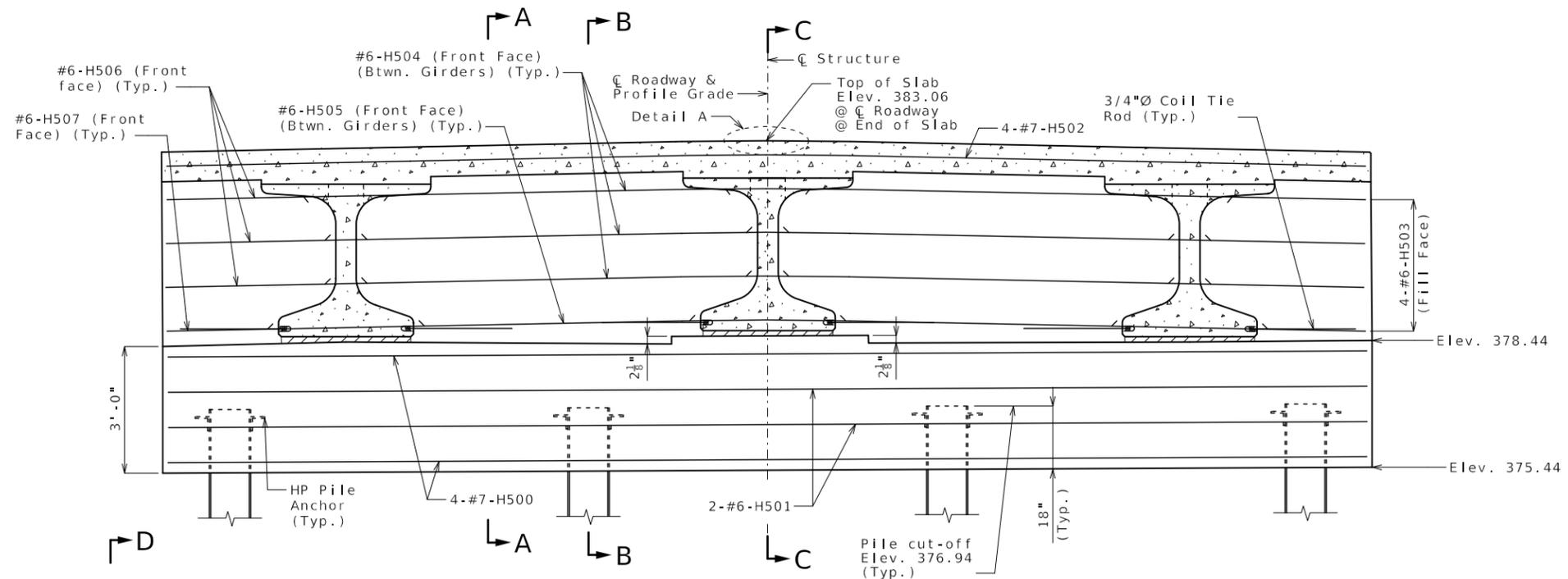












Notes:

- Work this sheet with Sheets No. 13 & 15.
- All concrete in the end bent above top of beam and below top of slab shall be Class B-2.
- Strands at end of girders shall be field bent or, if necessary, cut in field to maintain 1 1/2-inch minimum clearance to fill face of end bent.
- For location of Coil Ties & #5-H508 (Strand Tie Bars), see Sheets No. 16 & 17.
- The U bars shall be placed parallel to  $\bar{C}$  Roadway.
- The #6-F500 & F502 bars shall be bent in field to clear girders.
- For details of bridge approach slab, see Sheet No. 29.

**END BENT NO. 5**

STATE OF MISSOURI  
TIMOTHY D. LEAF  
NUMBER  
PE-201200778  
PROFESSIONAL ENGINEER

DATE PREPARED <b>2/19/2026</b>	
ROUTE <b>OO</b>	STATE <b>MO</b>
DISTRICT <b>BR</b>	SHEET NO. <b>14</b>
COUNTY <b>CAPE GIRARDEAU</b>	
JOB NO. <b>JSE0030</b>	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. <b>A9640</b>	
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

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



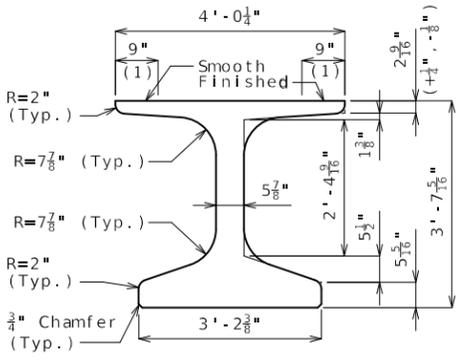




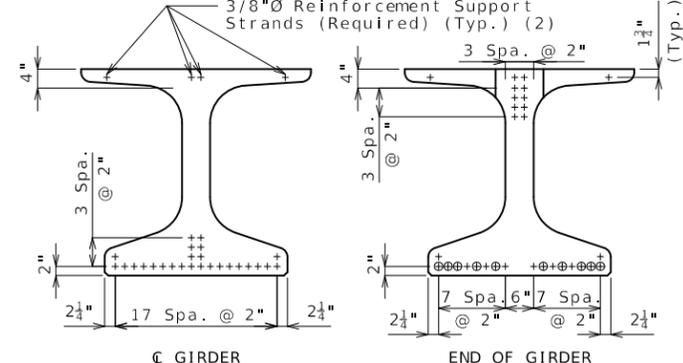


(1) Fabricator shall apply a bond breaker to this region excluding where joint filler will be applied.

(2) Outer strands tensioned to 2.02 kips/strand and inner strands to 8 kips/strand. Placed symmetrical about  $\bar{C}$  Girder. May be moved laterally in pairs.

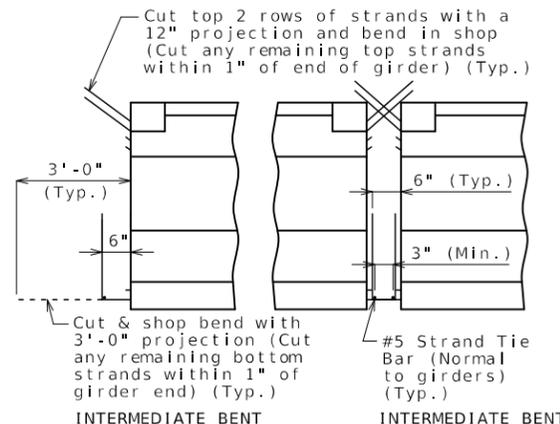


**DIMENSIONS**



**STRAND ARRANGEMENT**

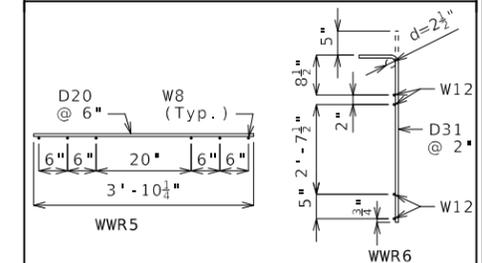
+ Indicates prestressing strand.  $\circ$  Indicates cut & shop bend with 3'-0" projection.



**STRANDS AT GIRDER ENDS**

Bill of Reinforcing Steel - Each Girder				
No.	Size/Mark	Length	Shape	Bending Diagrams
182	5 B1	5'-0"	11S	Shape 20
202	4 D1	4'-0"	9S	
2	4 G3	3'-10"	20	Shape 9S Shape 11S
2	4 G4	2'-3"	20	
2	4 G5	2'-8"	20	

**Welded Wire Reinforcement - Each Girder**



All dimensions are out to out.

Hooks and bends shall be in accordance with the CRS1 Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Actual bar lengths are measured along centerline of bar to the nearest inch.

Minimum clearance to reinforcing shall be one inch.

All bar reinforcement shall be Grade 60.

The two D1 bars may be furnished as one bar at the fabricator's option.

All B1 bars shall be epoxy coated.

G4 and G5 not required for interior girders. G3 not required for exterior girders of intermediate spans. Half no. of G3, G4, and G5 not required for ext. girders of end spans.

**General Notes:**

Concrete for prestressed girders shall be Class A-1 with  $f'c = 9000$  psi and  $f'ci = 7000$  psi.

Use 26 strands, 0.6"  $\phi$  Grade 270, with an initial prestress force of 1142 kips.

Pretensioned members shall be in accordance with Sec 1029.

Fabricator shall be responsible for location and design of lifting devices.

Exterior and interior girders are the same except: coil ties, top flange blockout, application of bond breaker, coil inserts for slab drains, holes for steel intermediate diaphragms.

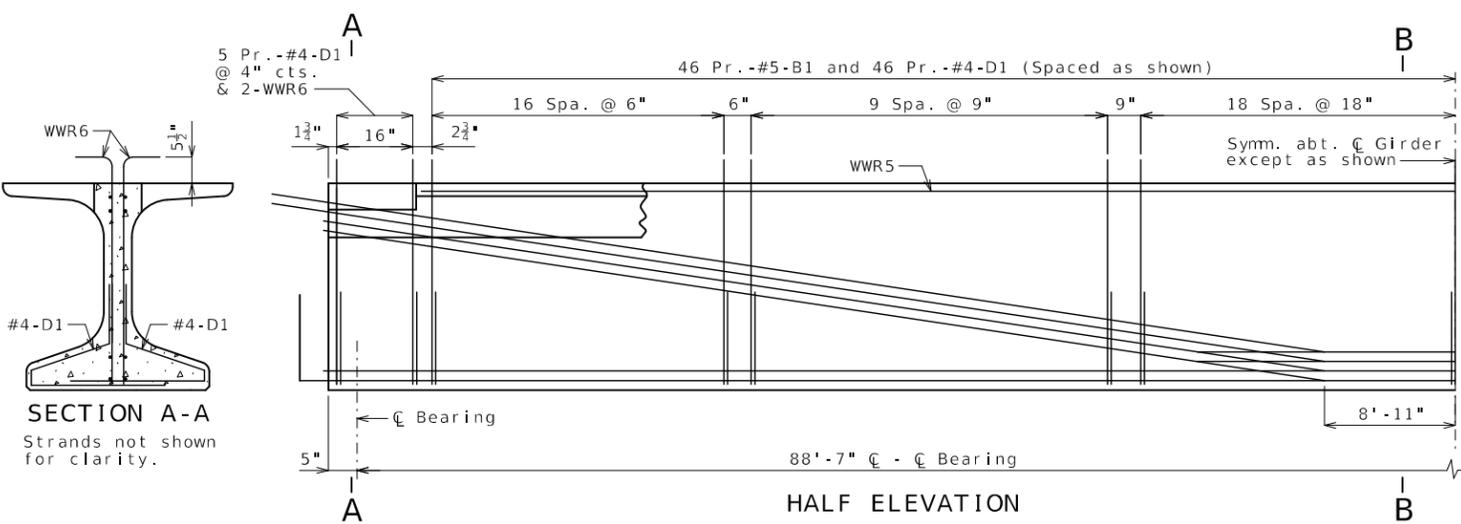
The contractor shall provide bracing necessary for lateral and torsional stability of the girders during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not drill holes in the girders.

For Girder Camber Diagram, see Sheet No. 24.

For location of coil inserts at slab drains, see Sheet No. 23.

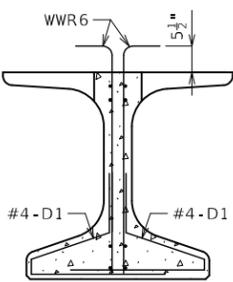
For location of coil ties at concrete diaphragms, see Sheet No. 22.

Alternate bar reinforcing steel details are provided and may be used. The same type of reinforcing steel shall be used for all girders in all spans.

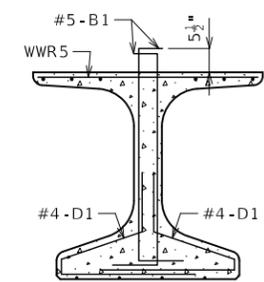


**HALF ELEVATION**

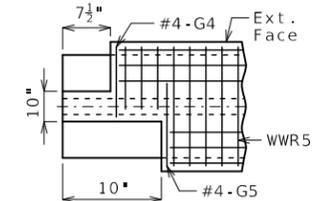
Reinforcement support strands not shown for clarity.



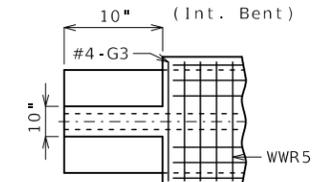
**SECTION A-A**  
Strands not shown for clarity.



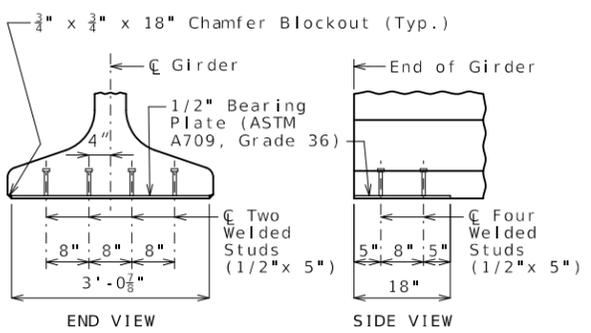
**SECTION B-B**  
Strands not shown for clarity.



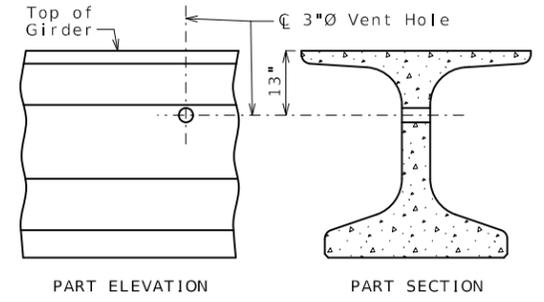
**LEFT EXTERIOR GIRDER AT INTERMEDIATE BENT**  
Rotate 180° for right ext.



**INTERIOR GIRDER AT ALL BENTS & EXTERIOR GIRDER AT END BENT TOP FLANGE BLOCKOUT**

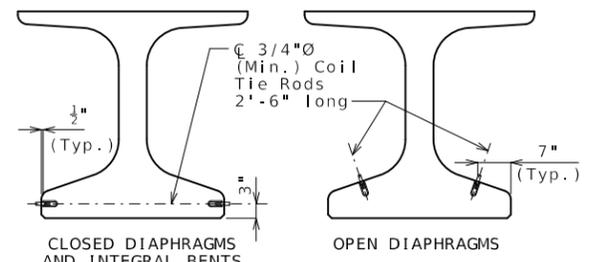


**BEARING PLATE**



**VENT HOLE**

Place vent holes at or near upgrade 1/3 point of girders and clear reinforcing steel or strands by 1 1/2" minimum and steel intermediate diaphragm bolt connections by 6" minimum.



**COIL TIES**

Exclude coil tie at exterior face of exterior girders except at integral end bents.

**NU-GIRDERS (ALTERNATE REINFORCEMENT) - SPAN (2-3)**

STATE OF MISSOURI  
TIMOTHY D. LEAF  
NUMBER  
PE-2012000778  
PROFESSIONAL ENGINEER

DATE PREPARED  
2/19/2026

ROUTE	STATE
OO	MO
DISTRICT	SHEET NO.
BR	19

COUNTY  
CAPE GIRARDEAU

JOB NO.  
JSE0030

CONTRACT ID.

PROJECT NO.

BRIDGE NO.  
A9640

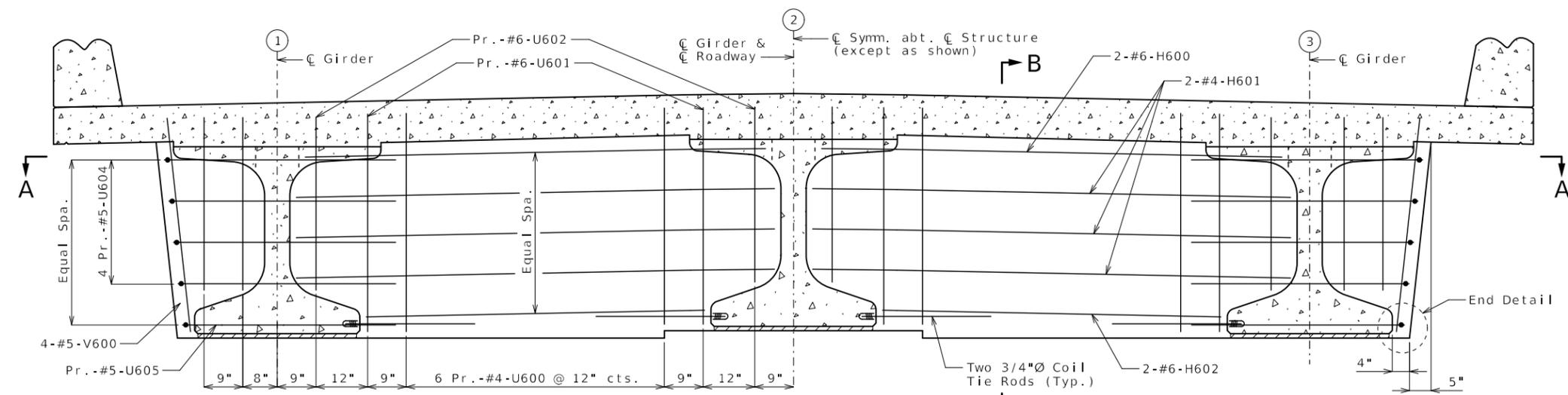
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

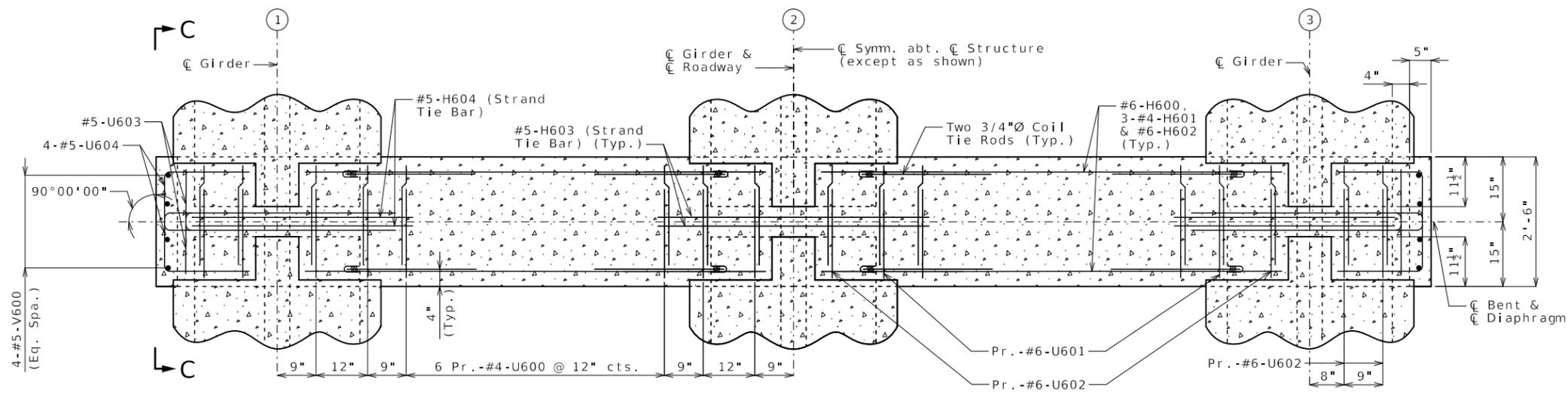
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)



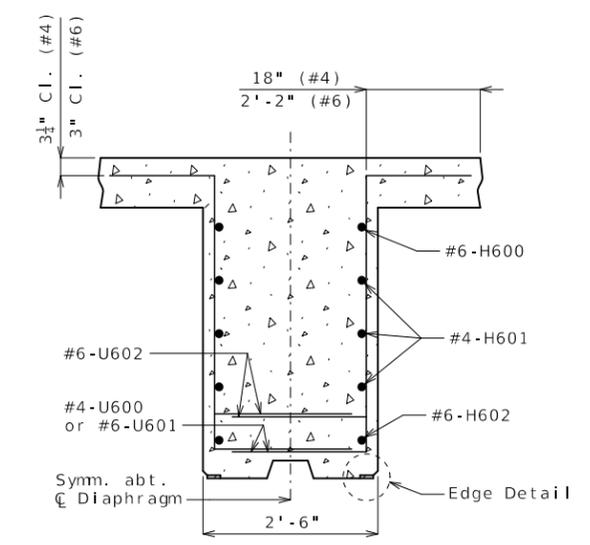




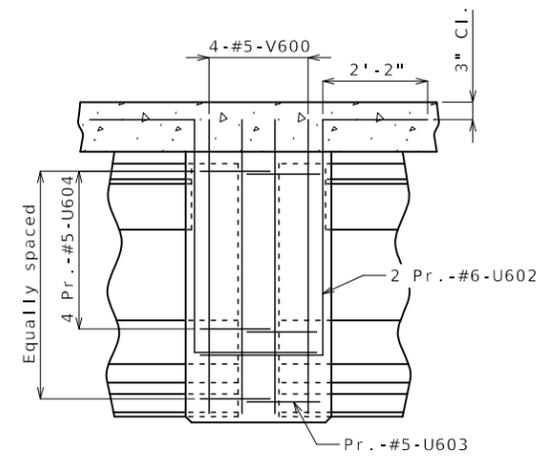
SECTION NEAR INTERMEDIATE BENT



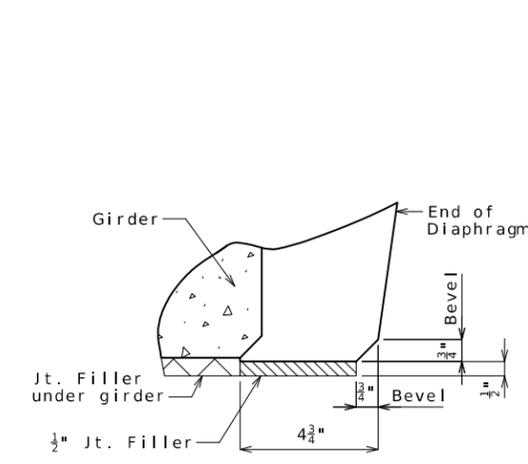
SECTION A-A



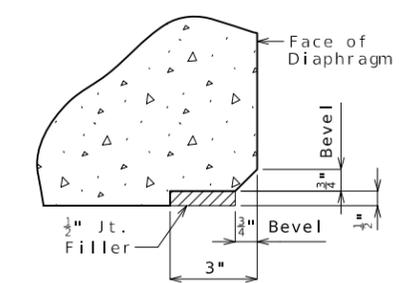
SECTION B-B



ELEVATION C-C



END DETAIL



EDGE DETAIL

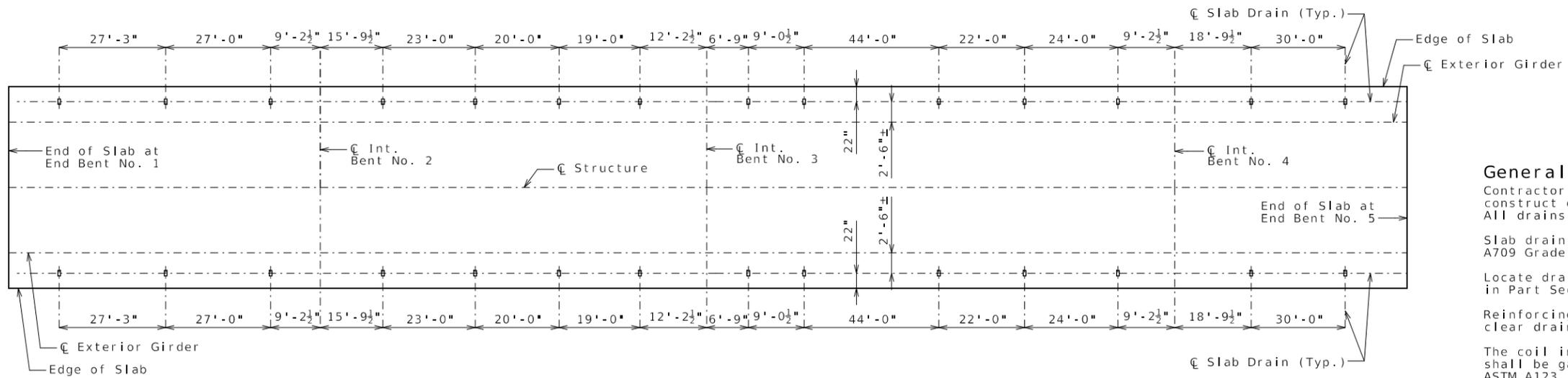
Notes :  
 Diaphragm at intermediate bent shall be built vertical.  
 For location of #5-H805 & #5-H806 (Strand Tie Bars) and coil tie rods, see Sheets No. 16 thru 21.  
 All U bars in diaphragm shall be placed parallel to centerline of roadway.

CONCRETE DIAPHRAGM AT INTERMEDIATE BENTS NO. 2, 3 & 4

STATE OF MISSOURI  
 TIMOTHY D. LEAF  
 NUMBER PE-201200778  
 PROFESSIONAL ENGINEER  
 DATE PREPARED 2/19/2026  
 ROUTE OO MO  
 DISTRICT BR SHEET NO. 22  
 COUNTY CAPE GIRARDEAU  
 JOB NO. JSE0030  
 CONTRACT ID.  
 PROJECT NO.  
 BRIDGE NO. A9640

DESCRIPTION	DATE

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



PLAN OF SLAB SHOWING SLAB DRAIN LOCATION

**General Notes:**

Contractor shall have the option to construct either steel or FRP slab drains. All drains shall be of same type.

Slab drain bracket assembly shall be ASTM A709 Grade 36 steel.

Locate drains in slab by dimensions shown in Part Section Near Drain.

Reinforcing steel shall be shifted to clear drains.

The coil inserts and bracket assembly shall be galvanized in accordance with ASTM A123.

All bolts, hardened washers, lock washers and nuts shall be galvanized in accordance with AASHTO M 232 (ASTM A153), Class C.

All 1/2"Ø bolts shall be ASTM A307.

Shop drawings will not be required for the slab drains and the bracket assembly.

The coil insert required for the bracket assembly shall be located on the prestressed girder shop drawings.

Coil inserts shall have a concrete pull-out strength (ultimate load) of at least 2,500 pounds in 5,000 psi concrete.

The bolt required to attach the slab drain bracket assembly to the prestressed girder web shall be supplied by the prestressed girder fabricator.

**Notes for Steel Drain:**

Slab drains may be fabricated of either 1/4" welded sheets of ASTM A709 Grade 36 steel or from 1/4" structural steel tubing ASTM A500 or A501.

Outside dimensions of drains are 8" x 4".

The drains shall be galvanized in accordance with ASTM A123.

**Notes for FRP Drain:**

Drains shall be machine filament-wound thermosetting resin tubing meeting the requirements of ASTM D2996 with the following exceptions:

Shape of drains shall be rectangular with outside nominal dimensions of 8" x 4".

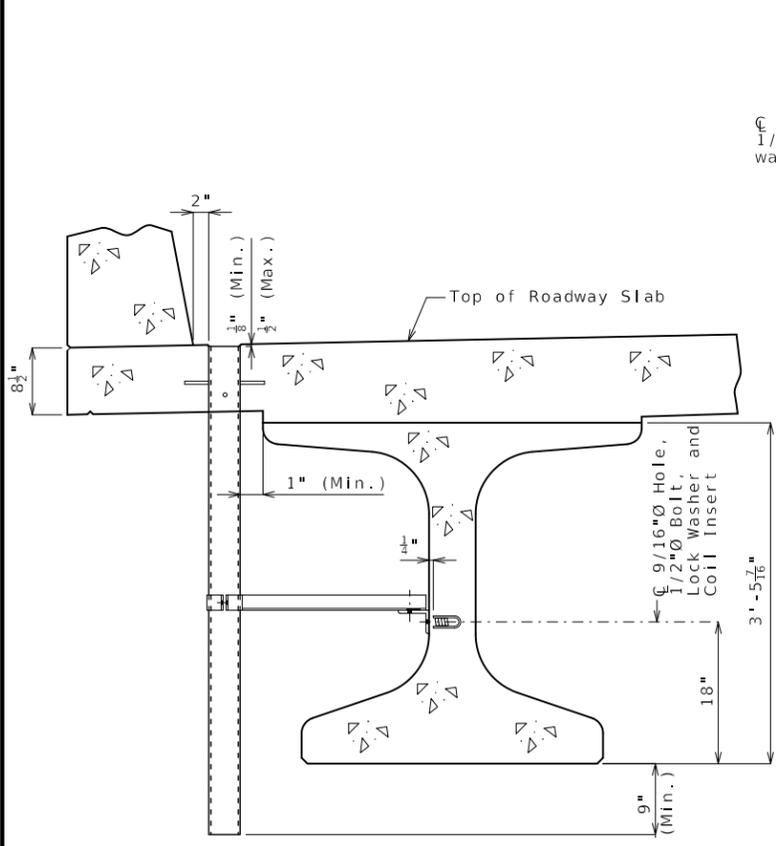
Minimum reinforced wall thickness shall be 1/4 inch.

The resin used shall be ultraviolet (UV) resistant and/or have UV inhibitors mixed throughout. Drains may have an exterior coating for additional UV resistance.

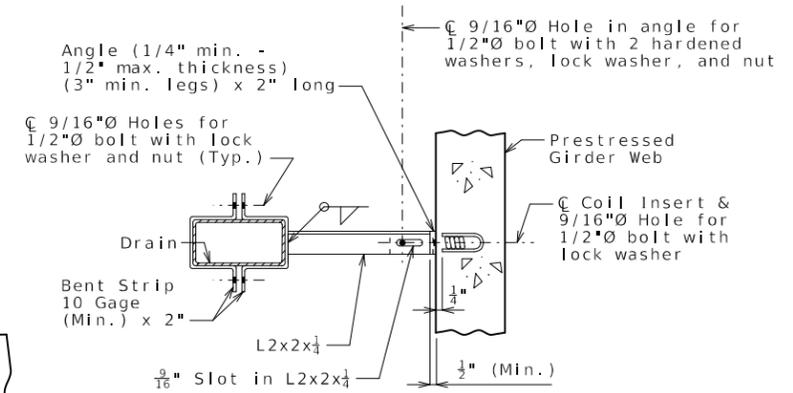
The color of the slab drain shall be gray (Federal Standard #26373). The color shall be uniform throughout the resin and any coating used.

The combination of materials used in the manufacture of the drains shall be tested for UV resistance in accordance with ASTM D4329 Cycle A. The representative material shall withstand at least 500 hours of testing with only minor discoloration and without any physical deterioration. The contractor shall furnish the results of the required ultraviolet testing prior to acceptance of the slab drains.

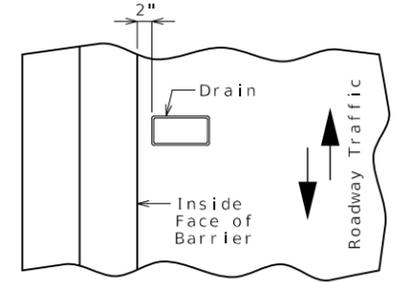
At the contractor's option, drains may be field cut. The method of cutting FRP slab drain shall be as recommended by the manufacturer to ensure a smooth, chip free cut.



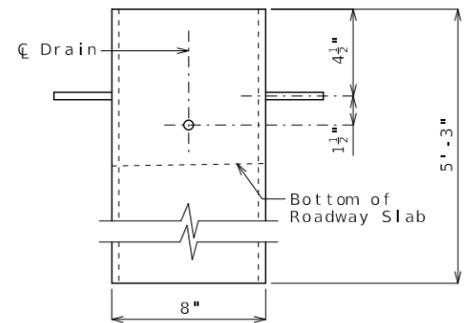
PART SECTION NEAR DRAIN



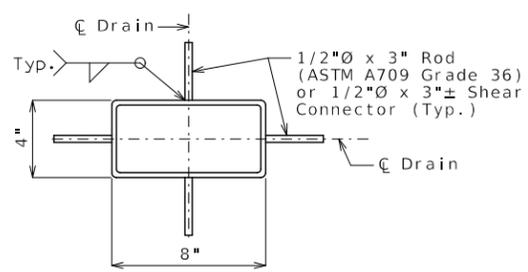
PART SECTION SHOWING BRACKET ASSEMBLY



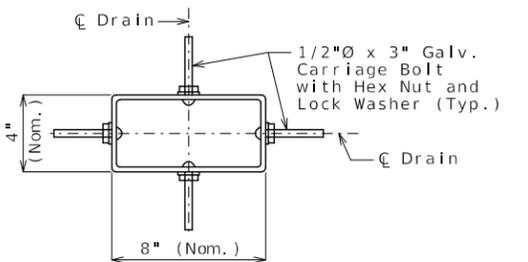
PART PLAN OF SLAB AT DRAIN



ELEVATION OF DRAIN



PLAN OF STEEL DRAIN OPTION



PLAN OF FRP DRAIN OPTION

**SLAB DRAINS**



DATE PREPARED 2/19/2026	
ROUTE OO	STATE MO
DISTRICT BR	SHEET NO. 23
COUNTY CAPE GIRARDEAU	
JOB NO. JSE0030	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9640	

DATE	DESCRIPTION

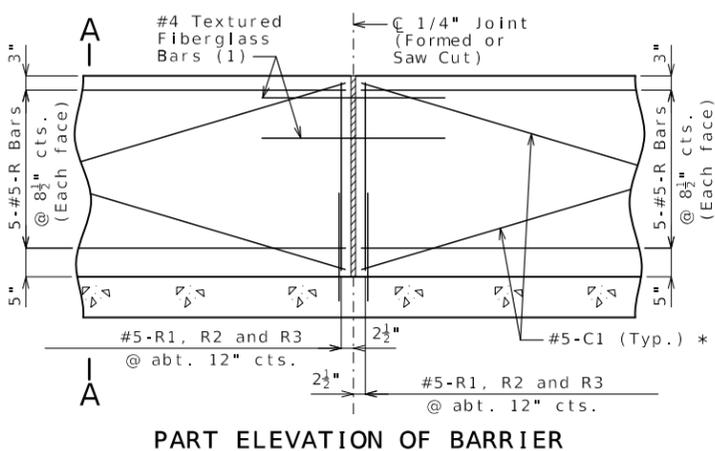
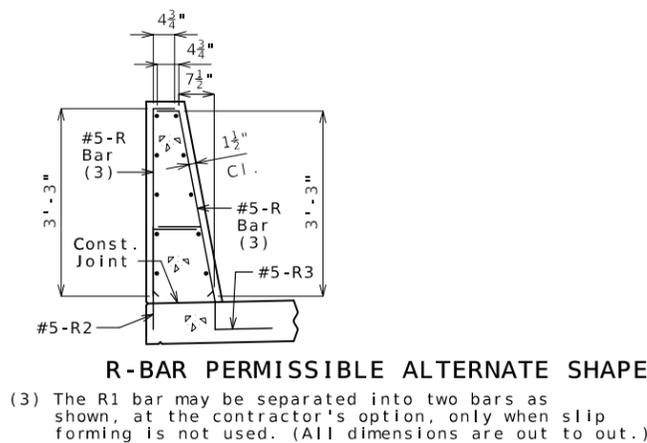
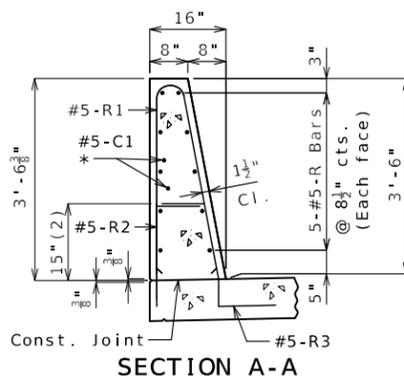
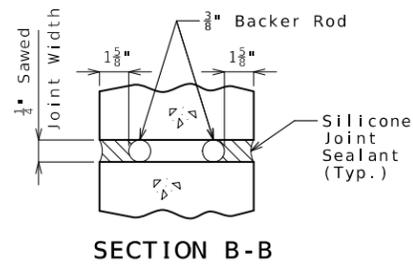
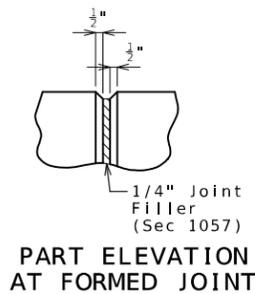
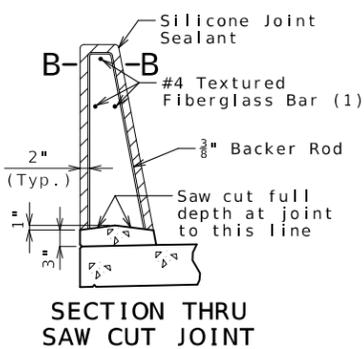
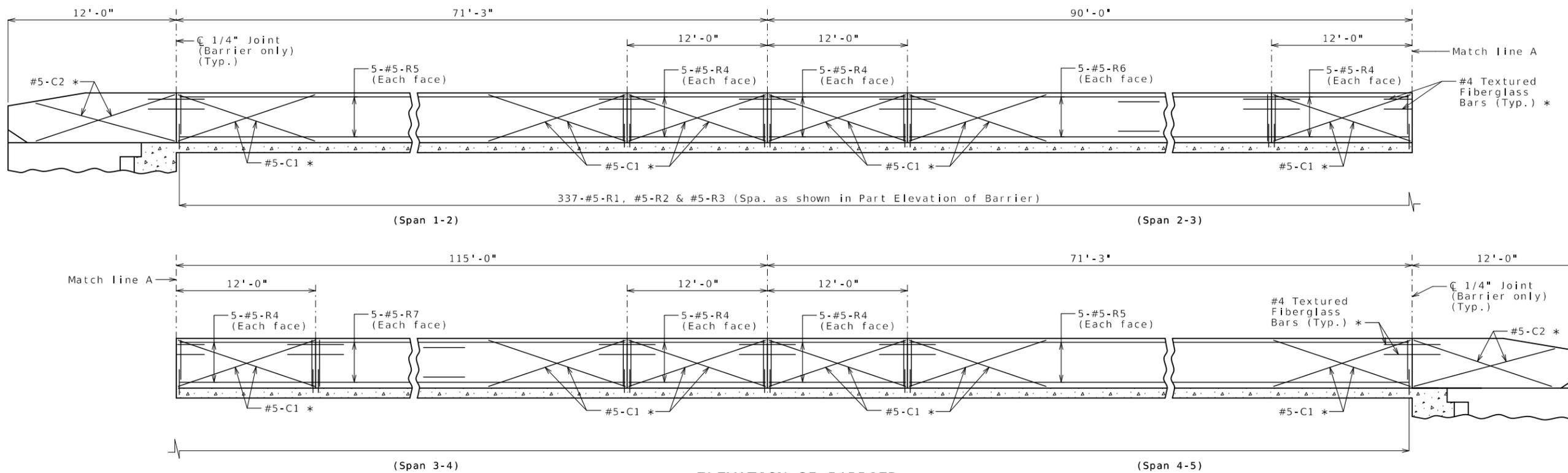
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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









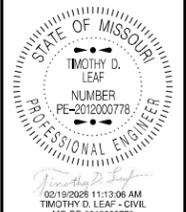
Use a minimum lap of 2'-6" for #5 horizontal barrier bars.

The cross-sectional area above the slab is 3.52 square feet.

(2) To top of bar

**General Notes:**

- \* Slip-formed option only.
- Conventional forming or slip forming may be used. Saw cut joints may be used with conventional forming.
- Top of barrier shall be built parallel to grade and barrier joints (except at end bents) normal to grade.
- All exposed edges of barrier shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.
- Payment for all concrete and reinforcement, complete in place, will be considered completely covered by the contract unit price for Type D Barrier per linear foot.
- Concrete in barrier shall be Class B-1.
- Measurement of barrier is to the nearest linear foot for each structure, measured along the outside top of slab from end of wing to end of wing.
- Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.
- Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.
- For slip-formed option, both sides of barrier shall have a vertically broomed finish and the top shall have a transversely broomed finish.



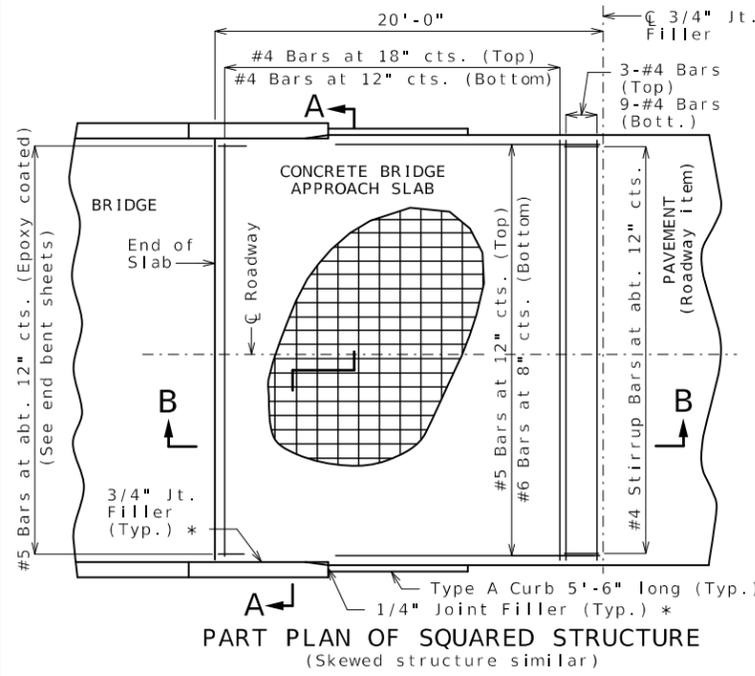
DATE PREPARED: 2/19/2026  
ROUTE: OO STATE: MO  
DISTRICT: BR SHEET NO.: 27  
COUNTY: CAPE GIRARDEAU  
JOB NO.: JSE0030  
CONTRACT ID:

PROJECT NO.:  
BRIDGE NO.: A9640

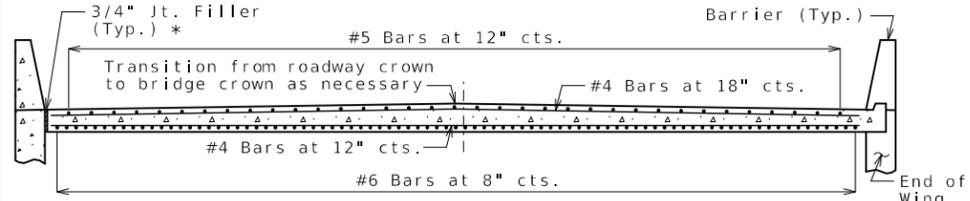
DATE	DESCRIPTION

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



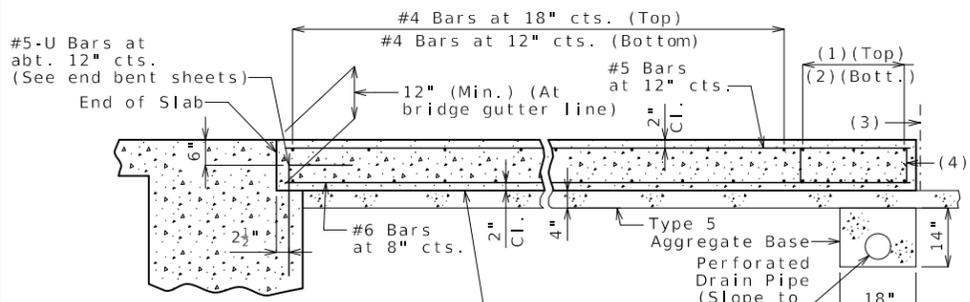


**PART PLAN OF SQUARED STRUCTURE**  
(Skewed structure similar)



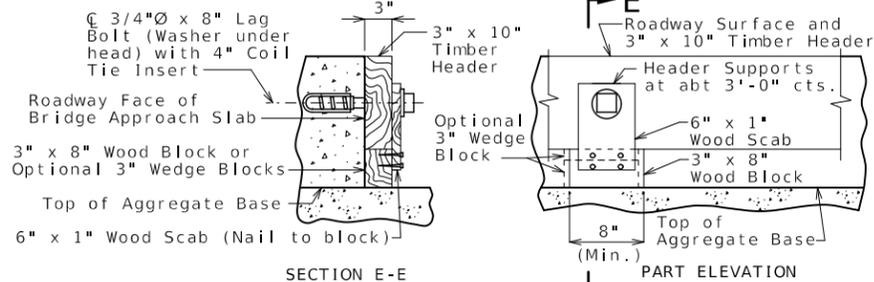
**SECTION A-A**

With the approval of the engineer, the contractor may crown the bottom of the approach slab to match the crown of the roadway surface.

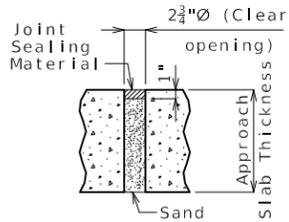


**SECTION B-B**  
(Integral end bent)

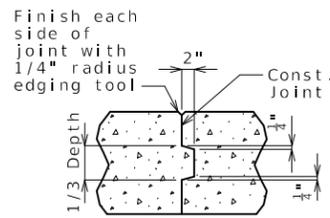
2 Layers of 4 Mil Polyethylene Sheeting between bridge approach slab and granular base in accordance with ASTM E 1745 Performance Class A



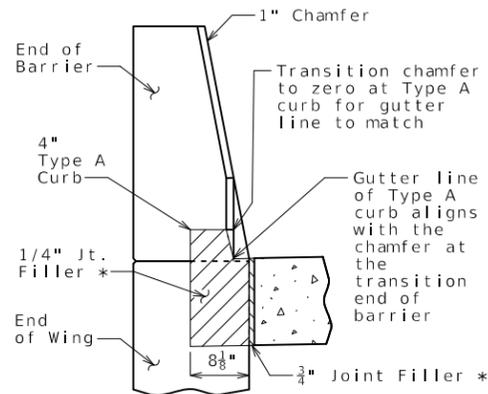
**DETAILS OF TIMBER HEADER**  
Remove timber header when concrete pavement is placed.  
**OPTIONAL CONCRETE SLAB**



**UNDERSEAL ACCESS HOLE DETAIL**  
(If required)



**CONSTRUCTION JOINT DETAIL**



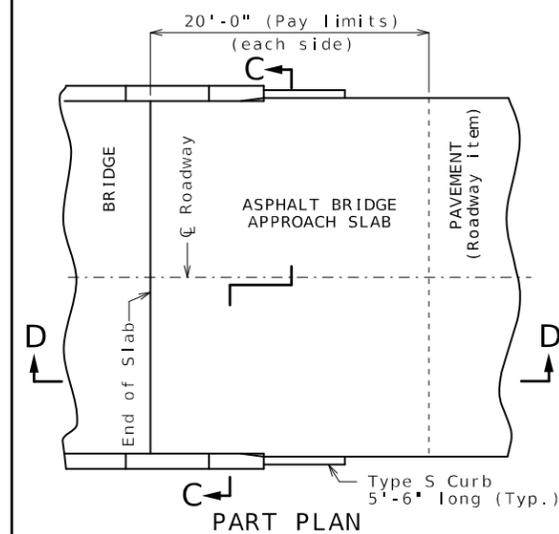
**SECTION BETWEEN CURB AND BARRIER**

- (1) 3-#4 Bars
- (2) 9-#4 Bars
- (3) 3/4" Jt. Filler
- (4) #4 Stirrup Bars at abt. 12" cts.; 2'-0" x 8" (Min.) out to out; Actual length = 5'-10" (Min.); 90° stirrup hook at bottom; Stirrup height (8") and actual length vary due to crown.

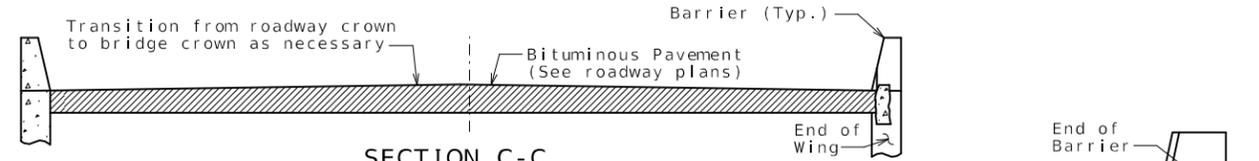
**Notes For Concrete Slab Only:**  
All concrete for the bridge approach slab shall be in accordance with Sec 503 ( $f'c = 4,000$  psi).  
The reinforcing steel in the bridge approach slab shall be epoxy coated Grade 60 with  $f_y = 60,000$  psi.  
Longitudinal construction joints in bridge approach slab shall be aligned with longitudinal construction joints in bridge slab.  
Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.  
The reinforcing steel in the bridge approach slab shall be continuous. The transverse reinforcing steel may be made continuous by providing a minimum lap splice of 26 inches for #4 bars, or by mechanical bar splice.  
Mechanical bar splices shall be in accordance with Sec 710.  
All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.  
Payment for furnishing all materials, labor and excavation necessary to construct the concrete bridge approach slab, including the timber header, underdrain, Type 5 aggregate base, joint filler, and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Minor) per square yard.  
Drain pipe may be either 6" diameter corrugated metallic-coated pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4" diameter corrugated polyethylene (PE) drain pipe.  
\* Seal joint between vertical face of approach slab and wing with sealant in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

**General Notes:**  
Contractor shall have the option to construct either slab except as noted.  
The contractor shall pour and satisfactorily finish the bridge slab before placing the bridge approach slab.  
MoDOT Construction personnel will indicate the bridge approach slab used for this structure:  
 Concrete Bridge Approach Slab  
 Asphalt Bridge Approach Slab

**Notes For Asphalt Slab Only:**  
Payment for furnishing all materials, labor and excavation necessary to construct the asphalt bridge approach slab, including tack, curb, and Type 5 aggregate base within the pay limits shown, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Minor) per square yard.  
Application of tack is required between lifts per Sec 403.

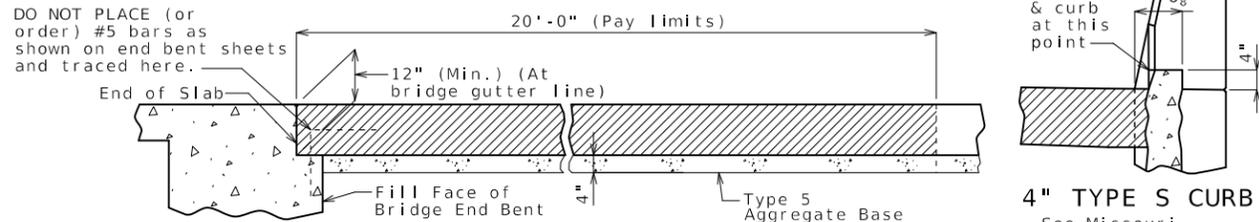


**PART PLAN**  
(Squared structure shown, skewed structure similar)



**SECTION C-C**

With the approval of the engineer, the contractor may crown the bottom of the approach slab to match the crown of the roadway surface.



**SECTION D-D**

**OPTIONAL ASPHALT SLAB** (NOT ALLOWED WITH CONCRETE PAVEMENT)

**4" TYPE S CURB**  
See Missouri Standard Plan 609.00 for details of Type S curb.

**BRIDGE APPROACH SLAB (MINOR)**

Integral end bents shown, non-integral end bent similar.



DATE PREPARED	
2/19/2026	
ROUTE	STATE
OO	MO
DISTRICT	SHEET NO.
BR	29

COUNTY
CAPE GIRARDEAU
JOB NO.
JSE0030
CONTRACT ID.

PROJECT NO.
BRIDGE NO.
A9640

DATE	DESCRIPTION

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																		
18	6 D200	BEAM		20		2	3.00						2	3	2	3	61	
8	9 H200	BEAM		18		24	5.00						26	11	26	11	732	
8	9 H201	BEAM		20		24	5.00						24	5	24	5	664	
12	6 H202	BEAM		20		24	5.00						24	5	24	5	440	
16	6 H203	BEAM		10S		2	2.00	5	1.50				9	6	9	2	220	
34	5 P200	BEAM		34S		12	6.75	2	5.00		4	0.00	13	8	13	6	479	
4	6 P201	DRILLED SHAFT		35		4	0.00	6	6.00	73	6.50		1887	6	1858		11,163	
17	6 U200	BEAM		13S		5	3.00	4	9.00	5	3.00	4	9.00	21	4	20	10	532
12	6 U201	BEAM		13S		3	5.00	4	9.00	3	5.00	4	9.00	17	8	17	2	309
20	6 U202	BEAM		10S		4	9.00	5	3.00				14	9	14	5	433	
5	4 U203	BEAM		10S			12.00	5	3.00				7	3	7	1	24	
22	10 V200	DRILLED SHAFT		20		44	2.00						44	2	44	2	4,181	
20	10 V201	DRILLED SHAFT		20		46	2.00						46	2	46	2	3,973	
22	10 V202	DRILLED SHAFT		17		42	2.00						43	7	43	7	4,126	
20	10 V203	DRILLED SHAFT		17		40	2.00						41	7	41	7	3,579	
Int Bent 3																		
18	6 D300	BEAM		20		2	3.00						2	3	2	3	61	
8	9 H300	BEAM		18		24	5.00						26	11	26	11	732	
8	9 H301	BEAM		20		24	5.00						24	5	24	5	664	
12	6 H302	BEAM		20		24	5.00						24	5	24	5	440	
16	6 H303	BEAM		10S		2	2.00	5	1.50				9	6	9	2	220	
34	5 P300	BEAM		34S		12	6.75	2	5.00		4	0.00	13	8	13	6	479	
4	6 P301	DRILLED SHAFT		35		4	0.00	6	6.00	73	6.50		1887	6	1858		11,163	
17	6 U300	BEAM		13S		5	3.00	4	9.00	5	3.00	4	9.00	21	4	20	10	532
12	6 U301	BEAM		13S		3	5.00	4	9.00	3	5.00	4	9.00	17	8	17	2	309
20	6 U302	BEAM		10S		4	9.00	5	3.00				14	9	14	5	433	
5	4 U303	BEAM		10S			12.00	5	3.00				7	3	7	1	24	
22	10 V300	DRILLED SHAFT		20		44	9.00						44	9	44	9	4,236	
20	10 V301	DRILLED SHAFT		20		46	9.00						46	9	46	9	4,023	
22	10 V302	DRILLED SHAFT		17		42	9.00						44	2	44	2	4,181	
20	10 V303	DRILLED SHAFT		17		40	9.00						42	2	42	2	3,629	
Int Bent 4																		
18	6 D400	BEAM		20		2	3.00						2	3	2	3	61	
8	9 H400	BEAM		18		24	5.00						26	11	26	11	732	
8	9 H401	BEAM		20		24	5.00						24	5	24	5	664	
12	6 H402	BEAM		20		24	5.00						24	5	24	5	440	
16	6 H403	BEAM		10S		2	2.00	5	1.50				9	6	9	2	220	
34	5 P400	BEAM		34S		12	6.75	2	5.00		4	0.00	13	8	13	6	479	
4	6 P401	DRILLED SHAFT		35		4	0.00	6	6.00	73	6.50		1887	6	1858		11,163	
17	6 U400	BEAM		13S		5	3.00	4	9.00	5	3.00	4	9.00	21	4	20	10	532
12	6 U401	BEAM		13S		3	5.00	4	9.00	3	5.00	4	9.00	17	8	17	2	309
20	6 U402	BEAM		10S		4	9.00	5	3.00				14	9	14	5	433	
5	4 U403	BEAM		10S			12.00	5	3.00				7	3	7	1	24	
22	10 V400	DRILLED SHAFT		20		49	1.00						49	1	49	1	4,647	
20	10 V401	DRILLED SHAFT		20		47	1.00						47	1	47	1	4,052	
22	10 V402	DRILLED SHAFT		17		45	1.00						46	6	46	6	4,402	
20	10 V403	DRILLED SHAFT		17		43	1.00						44	6	44	6	3,830	
Superstructure																		
End Bent 1																		
22	6 F100	WING BRACE	E 23S		20.25	5	3.50	20.25	14.25	14.25	14.25	14.25	8	8	8	7	284	
8	6 F101	DIAPHRAGM	E 19S		6	5.00	2	8.00					9	1	8	11	107	
8	7 H100	BEAM	E 20		28	5.00							28	5	28	5	465	
4	6 H101	BEAM	E 20		28	5.00							28	5	28	5	171	
4	7 H102	DIAPHRAGM	E 20		28	5.00							28	5	28	5	232	

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. 30.

Detailed Dec. 2025  
Checked Dec. 2025

All bars shall be Grade 60.

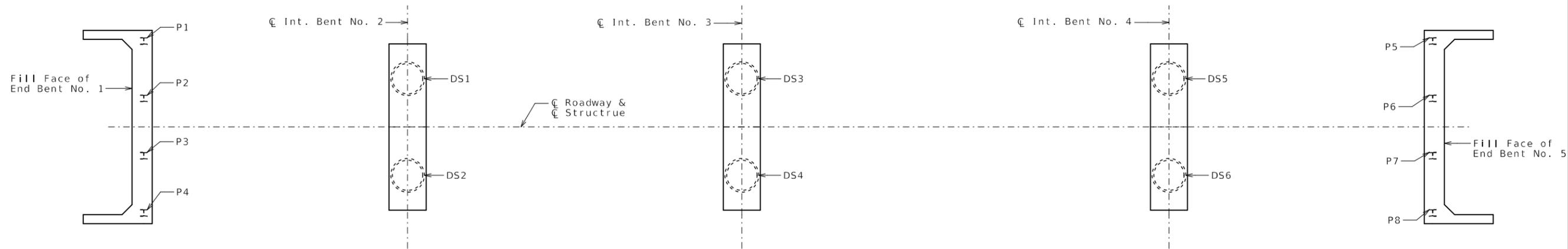
### BILL OF REINFORCING STEEL

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

Sheet No. 31 of 34

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.						
4	6 H103	DIAPHRAGM	E 20			28	5.00						28	5	28	5	171	
6	6 H104	DIAPHRAGM	E 20			9	3.00						9	3	9	3	83	
2	6 H105	DIAPHRAGM	E 20			6	6.00						6	6	6	6	20	
6	6 H106	DIAPHRAGM	E 20			3	9.00						3	9	3	9	34	
2	6 H107	DIAPHRAGM	E 20			2	5.00						2	5	2	5	7	
3	5 H108	STRAND TIE	E 20			5	8.00						5	8	5	8	18	
16	8 H109	WING	E 19			11	9.00	16.00					13	1	12	10	548	
36	6 H110	WING	E 19S			10	10.00	12.00					11	10	11	8	631	
10	5 U100	BEAM	E 10S			6	2.00	2	9.00				15	1	14	10	155	
27	4 U101	BEAM	E 13S			2	9.00	6	2.00	2	9.00	6	2.00	18	7	18	4	331
18	5 U102	DIAPHRAGM	E 10S			4	0.00	2	3.00				10	3	10		188	
18	6 U103	DIAPHRAGM	E 19S			3	0.00	2	9.00				5	9	5	7	151	
35	6 U104	DIAPHRAGM	E 19S			3	5.00	4	9.00				8	2	8		421	
26	5 U105	APPROACH NOTCH	E 19S			2	0.00	15.00					3	3	3	2	86	
16	5 V100	BEAM	E 20			6	2.00						6	2	6	2	103	
15	6 V101	DIAPHRAGM	E 20			2	9.00						2	9	2	9	62	
36	6 V102	WING	E 20			7	0.00						7	0	7	0	379	
End Bent 5																		
22	6 F500	WING BRACE	E 23S		20.25	5	3.50	20.25	14.25	14.25	14.25	14.25	8	8	8	7	284	
8	6 F501	DIAPHRAGM	E 19S		6	5.00	2	8.00					9	1	8	11	107	
8	7 H500	BEAM	E 20		28	5.00							28	5	28	5	465	
4	6 H501	BEAM	E 20		28	5.00							28	5	28	5	171	
4	7 H502	DIAPHRAGM	E 20		28	5.00							28	5	28	5	232	
4	6 H503	DIAPHRAGM	E 20		28	5.00							28	5	28	5	171	
6	6 H504	DIAPHRAGM	E 20		9	3.00							9	3	9	3	83	
2	6 H505	DIAPHRAGM	E 20		6	6.00							6	6	6	6	20	
6	6 H506	DIAPHRAGM	E 20		3	9.00							3	9	3	9	34	
2	6 H507	DIAPHRAGM	E 20		2	5.00							2	5	2	5	7	
3	5 H508	STRAND TIE	E 20		5	8.00							5	8	5	8	18	
16	8 H509	WING	E 19		11	9.00	16.00						13	1	12	10	548	
36	6 H510	WING	E 19S		10	10.00	12.00						11					





PART PLAN SHOWING PILE NUMBERING FOR RECORDING AS-BUILT PILE & DRILLED SHAFT DATA

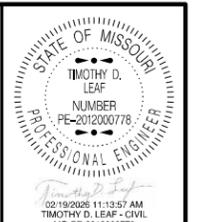
As-Built Pile Data			
Pile No.	Length in Place (ft)	Computed Nominal Axial Compressive Resistance (kips)	Remarks
			End Bent No. 1
P1			
P2			
P3			
P4			
			End Bent No. 5
P5			
P6			
P7			
P8			

As-Built Drilled Shaft Data				
Shaft No.	Top of Sound Rock (Elev.)	Tip of Casing (Elev.)	Bottom of Rock Socket (Elev.)	Remarks
				Int. Bent No. 2
DS1				
DS2				
				Int. Bent No. 3
DS3				
DS4				
				Int. Bent No. 4
DS5				
DS6				

Note:  
Indicate in remarks column:  
A. Pile type and grade  
B. Batter  
C. Driven to practical refusal

This sheet to be completed by MoDOT construction personnel.

AS-BUILT PILE AND DRILLED SHAFT DATA



DATE PREPARED  
2/19/2026

ROUTE OO STATE MO  
DISTRICT BR SHEET NO. 33  
COUNTY  
CAPE GIRARDEAU  
JOB NO. JSE0030  
CONTRACT ID.  
PROJECT NO.  
BRIDGE NO. A9640

DESCRIPTION	DATE

