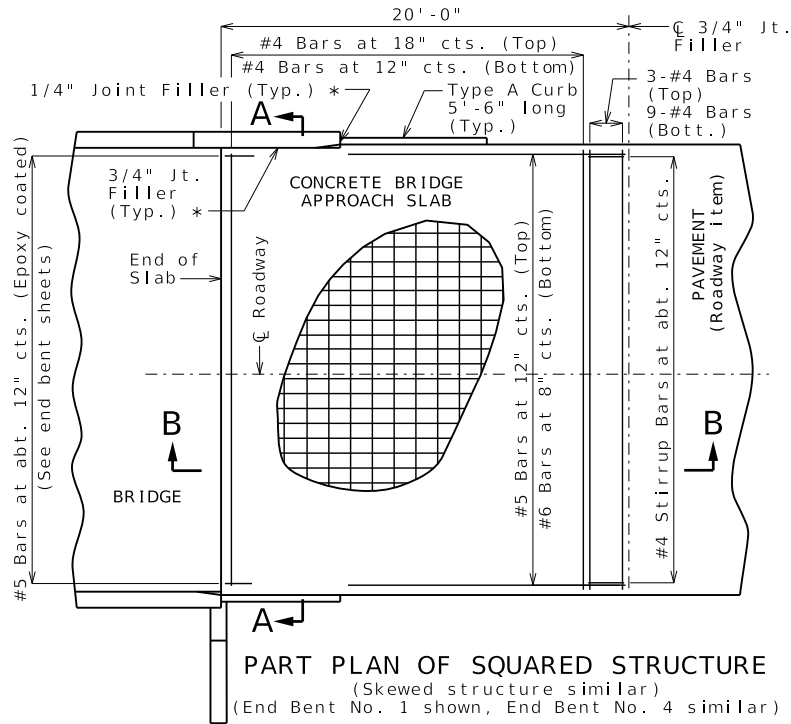
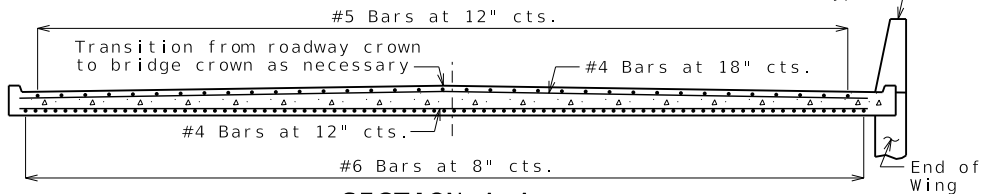


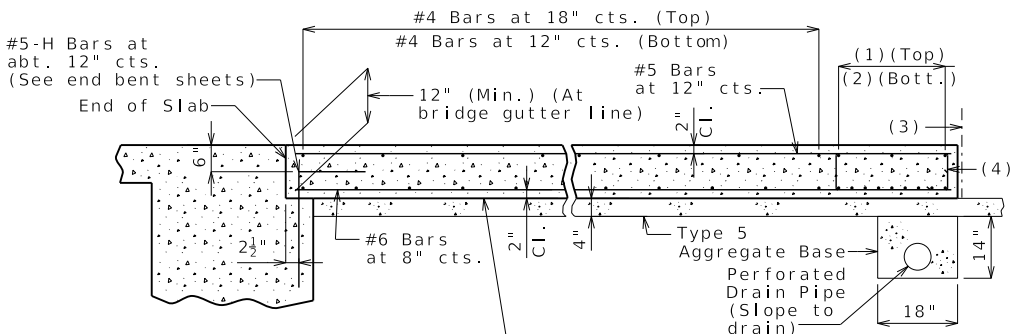


PART PLAN OF SQUARED STRUCTURE
(Skewed structure similar)
(End Bent No. 1 shown, End Bent No. 4 similar)

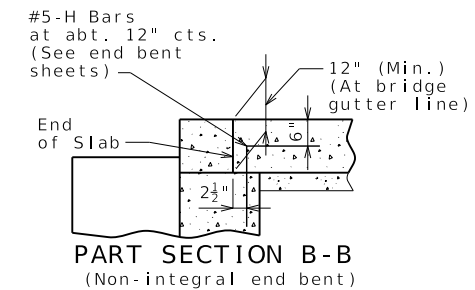


SECTION A-A

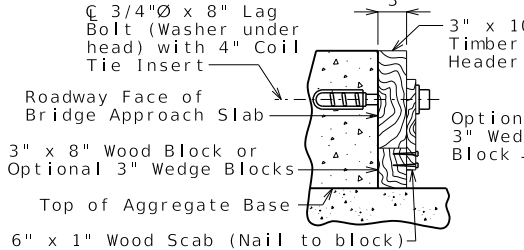
With the approval of the engineer, the contractor may crown the bottom of the approach slab to match the crown of the roadway surface.



SECTION B-B
(Integral end bent)



PART SECTION B-B
(Non-integral end bent)

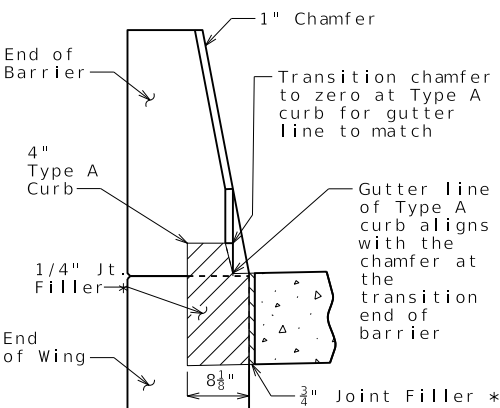


SECTION E-E

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

UNDERSEAL ACCESS HOLE DETAIL
(If required)

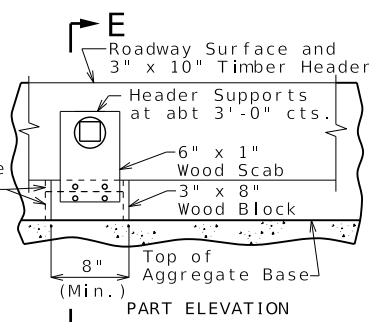
CONSTRUCTION JOINT DETAIL



SECTION BETWEEN CURB AND BARRIER

(On End Bent No. 1 Right Wing)

- (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.



PART ELEVATION

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 fy = 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 23 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.

See Missouri Standard Plan 609.00 for details of Type A curb.

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.

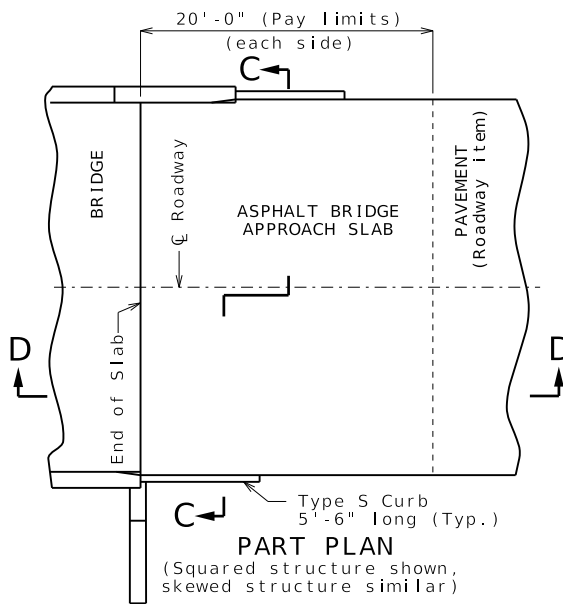
MoDOT Construction personnel will indicate the bridge approach slab used for this structure:

- ☐ Concrete Bridge Approach Slab
☐ Asphalt Bridge Approach Slab

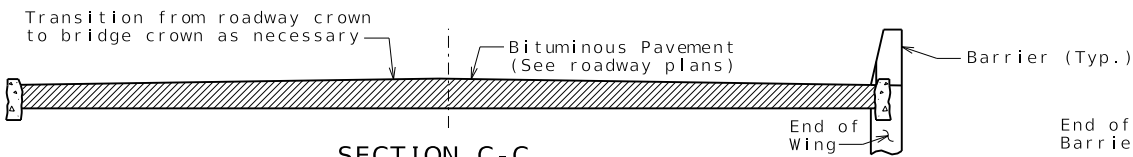
Notes For Asphalt Slab Only:

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.



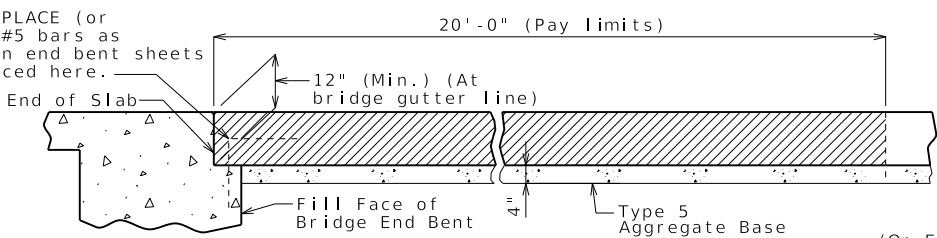
PART PLAN
(Squared structure shown, skewed structure similar)



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.

DO NOT PLACE (or order) #5 bars as shown on end bent sheets and traced here.



SECTION D-D

OPTIONAL ASPHALT SLAB (NOT ALLOWED WITH CONCRETE PAVEMENT)

4" TYPE S CURB
(On End Bent No. 1 Right Wing)
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

DATE PREPARED
3/8/2024

ROUTE AA MO

DISTRICT BR SHEET NO. 25

COUNTY BUTLER

JOB NO. J953677

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A9348

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

MoDOT

401 S. 18TH ST., STE. 400 ST. LOUIS, MO 63103

314-531-4321 • FAX 314-531-6866

WWW.MODOT.MO

DISCIPLINE: PROFESSIONAL ENGINEERING

CERTIFICATE OF AUTHORITY: 000169

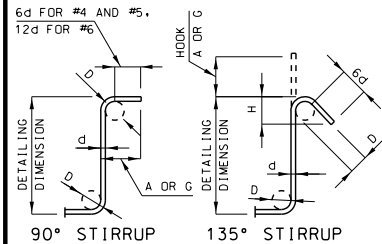
EXPIRATION DATE: DECEMBER 31, 2024

BRIDGE APPROACH SLAB (MINOR)

ROUTE AA OVER BLUE SPRING SLOUGH (DRAINAGE DITCH NO. 10)

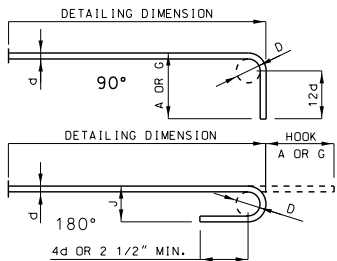
BILL OF REINFORCING STEEL

NO.	REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS														NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT		
										B		C		D		E		F		H		K						
										FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	LBS.
46	5	S3	SLAB	E 20						42	9.000										42	9	42	9	2051			
40	6	S4	SLAB	E 20						17	2.000										17	2	17	2	1031			
40	6	S5	SLAB	E 20						15	6.000										15	6	15	6	931			
95	5	S6	SLAB	E 20						26	5.000										26	5	26	5	2617			
30	5	S7	SLAB	E 20			V	2	24	5.000											24	5	24	5				
			INCREMENT 19.250 IN							1	11.000										1	11	1	11	412			
4	5	S8	SLAB	E 20						43	1.000										43	1	43	1	180			
4	5	S9	SLAB	E 20						43	4.000										43	4	43	4	181			
52	5	S10	SLAB	E 20						42	9.000										42	9	42	9	2319			
			BARRIERS																									
15	5	K1	BARRIER	E 27	S					1	10.500	0	9.250	0	5.375	1	4.750	1	0.000	0	5.250	0	1.000	5	6	5	2	81
21	5	K2	BARRIER	E 27	S					1	10.500	0	9.250	1	5.250	0	5.000	1	0.000	1	5.000	0	3.250	5	6	5	3	115
1	5	K3	BARRIER	E 27	S					1	10.500	0	9.250	1	2.500	0	7.750	1	0.000	1	2.250	0	2.750	5	6	5	2	5
54	5	K4	BARRIER	E 19	S					2	5.000	0	10.000											3	3	3	2	178
20	5	K5	BARRIER	E 14	S					0	8.250	0	9.500	1	7.250					0	4.250	1	6.750	3	1	3	0	63
34	5	K6	BARRIER	E 21	S					2	4.875	0	10.000							2	4.250	0	6.000	3	3	3	1	109
42	5	K7	BARRIER	E 20						5	6.000													5	6	5	6	241
5	5	K8	BARRIER	E 50	S					3	4.750			0	5.375	2	11.500	0	9.500	0	5.250	0	1.000	7	7	7	4	38
12	5	K9	BARRIER	E 50	S					3	4.750			1	2.500	2	2.500	0	10.000	1	2.250	0	2.750	7	8	7	4	92
14	5	K10	BARRIER	E 20						11	0.000													11	0	11	0	161
151	5	R1	BARRIER	E 14	S					2	5.000	0	6.500	2	5.500					2	5.000	0	5.500	5	5	5	3	827
151	5	R2	BARRIER	E 19	S					1	8.500	0	9.500											2	6	2	5	381
151	5	R3	BARRIER	E 27	S						0	9.500	1	3.250	0	5.000	1	0.000	1	3.000	0	3.000		3	6	3	4	525
16	5	R4	BARRIER	E 20						22	8.000													22	8	22	8	378
16	5	R5	BARRIER	E 20						31	9.000													31	9	31	9	530
8	5	R6	BARRIER	E 20						23	4.000													23	4	23	4	195
8	5	R7	BARRIER	E 20						22	4.000													22	4	22	4	186
			SLIP FORM																									
20	5	C1	SLIP FORM	E 20						12	0.000													12	0	12	0	250
2	5	C2	SLIP FORM	E 20						8	9.000													8	9	8	9	18
4	5	C3	SLIP FORM	E 20						11	0.000													11	0	11	0	46
			TOTALS																									
4																												458
4				E																								379
5																												1104
5				E																								12999
6																												1124
6				E																								14189
7																												1484
8				E																								223
			TOTAL																									4170
			TOTAL	E																								27790
			SLAB ON STEEL																									
4																												174
4				E																								379
5																												366
5				E																								8580
6				E																								14189
8				E																								223
			TOTAL																									540
			TOTAL	E																								23371



STIRRUP HOOK DIMENSIONS				
GRADES 40 - 50 - 60 KSI				
BAR SIZE	D (IN.)	90° HOOK A OR G	135° HOOK A OR G	APPROX. H
#4	2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"
#6	4 1/2"	12"	8"	4 1/2"

NOTE: UNLESS OTHERWISE NOTED, DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



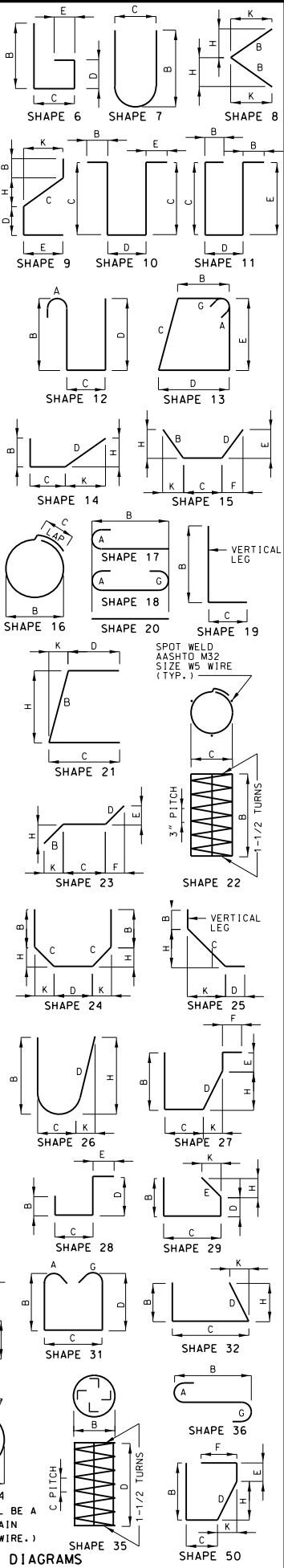
END HOOK DIMENSIONS				
ALL GRADES				
BAR SIZE	D (IN.)	180° HOOKS A OR G	90° HOOKS J	A OR G
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	12"
#7	5 1/4"	10"	7"	14"
#8	6"	11"	8"	16"
#9	9 1/2"	15"	11 3/4"	19"
#10	10 3/4"	17"	13 1/4"	22"
#11	12"	19"	14 3/4"	2'-0"
#14	18 1/4"	2'-3"	21 3/4"	2'-7"

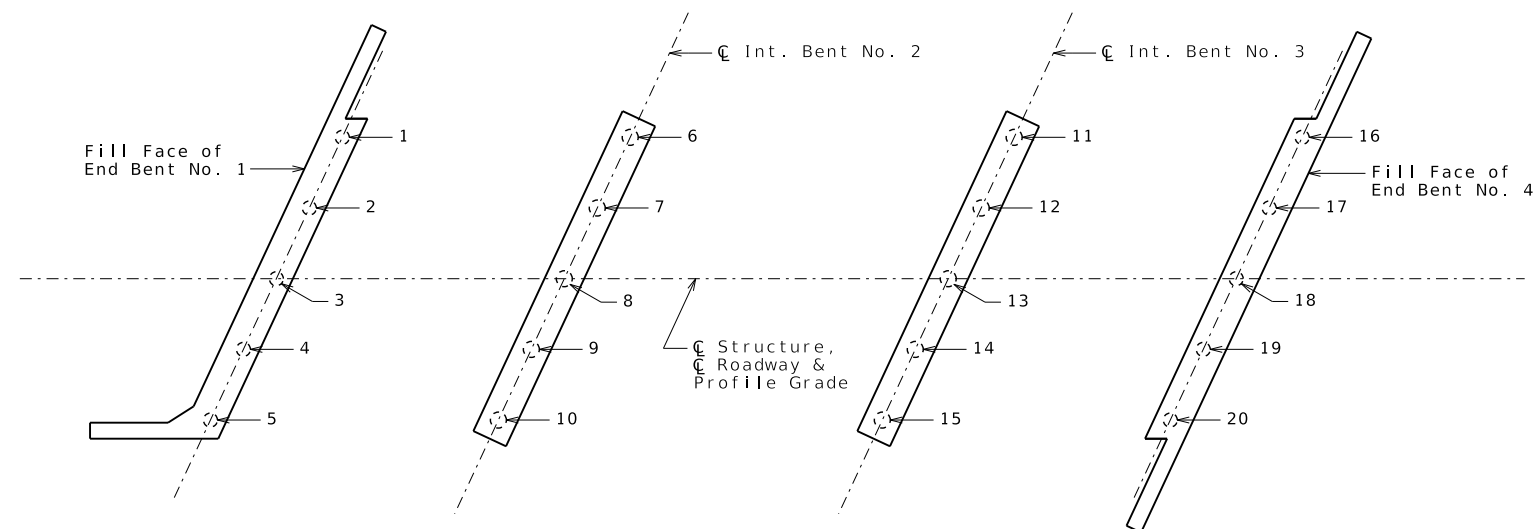
NOTE:
ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS.
HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
E = EPOXY COATED REINFORCEMENT.
S = STIRRUP.
X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.
NO. EA. = NUMBER OF BARS OF EACH LENGTH.
NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.
FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS.
REINFORCING STEEL (GRADE 60) FY = 60,000 PSI.

Sheet No. 27 of 33

BILL OF REINFORCING STEEL

NO.	REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS												NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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As-Built Pile Data					
Pile No.	Length in Place (ft)	PDA Nom. Axial Compressive Resistance (kips)	PDA End of Drive Blow Count (blows/in.)	Actual End of Drive Blow Count (blows/in.)	Remarks
					End Bent No. 1
1					
2					
3					
4					
5					
					Int. Bent No. 2
6					
7					
8					
9					
10					

As-Built Pile Data					
Pile No.	Length in Place (ft)	PDA Nom. Axial Compressive Resistance (kips)	PDA End of Drive Blow Count (blows/in.)	Actual End of Drive Blow Count (blows/in.)	Remarks
					Int. Bent No. 3
11					
12					
13					
14					
15					
					End Bent No. 4
16					
17					
18					
19					
20					

Note:
Indicate in remarks column:
A. Pile type and grade
B. Batter
C. Driven to practical refusal
D. PDA test pile
E. Minimum tip elevation controlled
(Use when actual blow count is less than PDA blow count due to minimum tip elevation requirement. A plus sign (+) shall be placed after the PDA nominal axial compressive resistance value indicating actual value is higher than PDA value.)

This sheet to be completed by Contractor personnel.



DATE _____

DATE PREPARED

3/8/2024

ROUTE	STATE
AA	MO

AA	MO
----	----

DISTRICT	SHEET NO
BD	28

BR	28
COUNTY	

COUNTY
BUTLER

BUTLER

LOS AN

JOB NO.
1053677

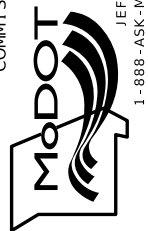
J953677

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

A9348

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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



101 S. 18TH ST., STE. 400 ST. LOUIS, MO 63103
314-531-4321 - FAX 314-531-6986
WWW.HORNERSHIFR.NC.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

AS-BUILT
PILE DATA

ROUTE AA OVER
UE SPRING SLOUGH
DRAINAGE DITCH
NO. 10)

[illegible]

		BORING NUMBER X0790-1 PAGE 2 OF 2										
CLIENT <u>Horner & Shifrin, Inc.</u>		PROJECT NAME <u>Butler County Route AA Bridges</u>										
PROJECT NUMBER <u>MG22088</u>		PROJECT LOCATION <u>Butler County, Missouri</u>										
DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
20		Grey, poorly graded SAND (SP), fine-grained <i>(continued)</i>	 SS 4	100	9-7-10 (17)							
25			 SS 5	100	5-7-9 (16)							
30			 SS 6	100	6-8-13 (21)							
287.2			Bottom of borehole at 31.0 feet.									

3E0TECH BH COLUMNS - GINT STD US LAB.GDT - 6/6/23 15:17 - G:\PROJECT FILES\2022\MG22088.MD0T RTE AA - BUTLER COUNTY BRIDGE REPLACEMENTS\FIELD DATA\BUTTLER COUNTY GINT.GPJ

[illegible]

BORING NUMBER X0790-1A

PAGE 1 OF 4

Millennia Professional Services

CLIENT Horner & Shiffrin, Inc.

PROJECT NAME Butler County Route AA Bridges

PROJECT NUMBER MG22088

PROJECT LOCATION Butler County, Missouri

DATE STARTED 5/2/23 COMPLETED 5/2/23

GROUND ELEVATION 318.2 ft HOLE SIZE inches

DRILLING CONTRACTOR Terracon

GROUND WATER LEVELS:

DRILLING METHOD Continuous Flight Auger and Mud-Rotary

AT TIME OF DRILLING --- Not available due to drilling fluid

LOGGED BY M. Jenkins CHECKED BY J. Schaeffer

AT END OF DRILLING --- Not available due to drilling fluid

NOTES

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		TOPSOIL (9")	317.45									
5												
10												
15		Note: See Boring X0790-1 for upper material descriptions Sampling at this location began at 23.5 ft.										
20												
25		Grey, fine-grained SAND (SP) ----- 294.7	SS 1	67	3-6-6 (12)							

[illegible]

BORING DATA

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

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

Sheet No. 30 of 33

1 SHEET ADDED

BORING DATA	 HORNER SHIFRIN 401 S. 18TH ST., STE. 400 ST. LOUIS, MO 63103 314-531-4321 • FAX 314-531-6986 WWW.HORNERSHIFRIN.COM DISCIPLINE: CIVIL ENGINEERING CERTIFICATE OF AUTHORITY: 001619 EXPIRATION DATE: DECEMBER 31, 2024	 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	DATE	DESCRIPTION
					
		DATE			
		DATE PREPARED 3/8/2024			
ROUTE AA		STATE MO			
DISTRICT BR		SHEET NO. 30			
COUNTY BUTLER					
JOB NO. J9S3677					
CONTRACT ID.					
PROJECT NO.					
BRIDGE NO. A9348					



Millennia Professional Services

BORING NUMBER X0790-1A

PAGE 3 OF 4

CLIENT Horner & Shifrin, Inc.

PROJECT NAME Butler County Route AA Bridges

PROJECT NUMBER MG22088

PROJECT LOCATION Butler County, Missouri

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
55		Grey, fine-grained SAND (SP) <i>(continued)</i>	SS 7	83	7-9-9 (18)							
60			SS 8	89	11-15-17 (32)							
65			SS 9	83	8-13-13 (26)							
70			SS 10	67	12-19-18 (37)							
75			Grey, fine-to-coarse-grained SAND (SW), trace gravel	SS 11	83	6-6-9 (15)						2
80		Grey, fine-to-medium-grained SAND (SP)	SS 12	78	8-10-11 (21)						2	

(Continued Next Page)



Millennia Professional Services

BORING NUMBER X0790-1A

PAGE 4 OF 4

CLIENT Horner & Shifrin, Inc.

PROJECT NAME Butler County Route AA Bridges

PROJECT NUMBER MG22088

PROJECT LOCATION Butler County, Missouri

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
85		Grey, fine-to-medium-grained SAND (SP) <i>(continued)</i>										
90			SS 13	100	12-13-12 (25)							
95			SS 14	100	16-20-13 (33)							
100		Bottom of borehole at 100.0 feet.										

218.2

BORING DATA

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

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

Sheet No. 31 of 33

Detailed: Aug. 2023
Checked: Sept. 2023

 SHEET ADDED



DATE

DATE PREPARED
3/8/2024

ROUTE
AA

STATE
MO

DISTRICT
BR

SHEET NO.
31

COUNTY
BUTLER

JOB NO.
J9S3677

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9348

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



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



HORNER
SHIFRIN

401 S. 18TH ST., STE. 400 ST. LOUIS, MO 63103
314-531-4321 • FAX 314-531-6866
WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000169
EXPIRATION DATE: DECEMBER 31, 2024

BORING DATA

ROUTE AA OVER
BLUE SPRING SLOUGH
(DRAINAGE DITCH
NO. 10)



Millennia Professional Services

BORING NUMBER 20790-2

PAGE 1 OF 2

CLIENT Horner & Shiffrin, Inc.

PROJECT NUMBER MG22088

DATE STARTED 1/24/23 COMPLETED 1/24/23

DRILLING CONTRACTOR Smith & Co.

DRILLING METHOD Hollow Stem Auger and Mud-Rotary

LOGGED BY C. Graham CHECKED BY J. Schaeffer

NOTES Drainage Ditch No. 10

PROJECT NAME Butler County Route AA Bridges

PROJECT LOCATION Butler County, Missouri

GROUND ELEVATION 318.6 ft HOLE SIZE inches

GROUND WATER LEVELS:

▽ AT TIME OF DRILLING 14.50 ft / Elev 304.10 ft

AT END OF DRILLING --- Not available due to drilling fluid

AFTER DRILLING ---

DEPTH (ft)

GRAPHIC LOG

MATERIAL DESCRIPTION

SAMPLE TYPE NUMBER

RECOVERY % (ROD)

BLOW COUNTS (N VALUE)

POCKET PEN. (tsf)

DRY UNIT WT. (pcf)

MOISTURE CONTENT (%)

ATTERBERG LIMITS

LIQUID LIMIT

PLASTIC LIMIT

PLASTICITY INDEX

FINES CONTENT (%)

0

Topsoil (12.0")

317.6

Grey, lean CLAY (CL), trace sand

5

SS 1

72

1-1-3 (4)

1.25

19

10

309.1

Grey, poorly graded SAND (SP), fine- to medium-grained

SS 2

100

1-3-2 (5)

15

▽

- drilling method switched to Mud-Rotary prior to sampling SS3 at 14.5 ft.

SS 3

100

2-3-3 (6)

SEOTECH BH COLUMNS - GINT STD US LAB GDT - 6/6/23 15:17 - G:\PROJECT FILES\2022\MG22088 MODOT RTE AA - BUTLER COUNTY BRIDGE REPLACEMENTS\FIELD DATA\BUTLER COUNTY BRIDGE GINT.GPJ

		BORING NUMBER X0790-2 PAGE 2 OF 2										
CLIENT <u>Horner & Shifrin, Inc.</u>		PROJECT NAME <u>Butler County Route AA Bridges</u>										
PROJECT NUMBER <u>MG22088</u>		PROJECT LOCATION <u>Butler County, Missouri</u>										
DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
20		Grey, poorly graded SAND (SP), fine- to medium-grained <i>(continued)</i>	 SS 4	100	8-6-10 (16)							
25		- fine-grained below 24.5 ft.	 SS 5	67	4-8-12 (20)							
30			 SS 6	83	4-13-16 (29)							
287.6		Bottom of borehole at 31.0 feet.										

[illegible]

