

RTE E

A.A.D.T. - 2025 = 493

A.A.D.T. - 2045 = 544

D.H.V. = 6.83%

T = 11.0%

V = 55 M.P.H.

D = 51.8%

RTE FF

A.A.D.T. - 2025 = 93

A.A.D.T. - 2045 = 103

D.H.V. = 12.5%

T = 10.9%

V = 55 M.P.H.

D = 50.5%

RTE JJ

A.A.D.T. - 2025 = 130

A.A.D.T. - 2045 = 143

D.H.V. = 7.09%

T = 13.4%

V = 55 M.P.H.

D = 52.8%

RTE OO

A.A.D.T. - 2025 = 253

A.A.D.T. - 2045 = 286

D.H.V. = 9.17%

T = 8.9%

V = 55 M.P.H.

D = 50.0%

CONVENTIONAL SYMBOLS (USED IN PLANS)

NOTE: DASHED OR OPEN SYMBOLS INDICATE
EXISTING FEATURES

KEY MAP

LOCATION OF PUTNAM, MERCER
& SULLIVAN COUNTIES

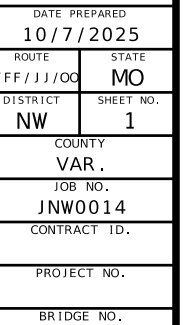


THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

DESCRIPTION	SHEET NUMBER
TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (4 SHEETS)---	2
QUANTITIES (QU) (6 SHEETS)-----	3
PLAN-PROFILE (PP)-----	4-7
REFERENCE POINTS (RP)-----	8
COORDINATE POINTS (CP)-----	9
SPECIAL SHEET (SS)-----	10-13
TRAFFIC CONTROL SHEETS (TC)-----	14-17
EROSION CONTROL (EC)-----	18-21
PAVEMENT MARKING (PM)-----	22-25
BRIDGE DRAWINGS (B)	
N09731-----	1-10
A26361-----	1-11
P08332-----	1-11
N02542-----	1-11

<u>RTE E</u>		
BEGIN	STA.	623+90.75
END	STA.	627+35.54
APPARENT LENGTH		344.79 FEET
EQUATIONS AND EXCEPTIONS:		NONE
TOTAL CORRECTIONS		0.00 FEET
<u>RTE FF</u>		
BEGIN	STA.	55+32.50
END	STA.	58+17.67
APPARENT LENGTH		285.17 FEET
EQUATIONS AND EXCEPTIONS:		NONE
TOTAL CORRECTIONS		0.00 FEET
<u>RTE JJ</u>		
BEGIN	STA.	239+91.00
END	STA.	242+44.17
APPARENT LENGTH		253.17 FEET
EQUATIONS AND EXCEPTIONS:		NONE
TOTAL CORRECTIONS		0.00 FEET
<u>RTE OO</u>		
BEGIN	STA.	285+41.62
END	STA.	288+69.60
APPARENT LENGTH		327.98 FEET
EQUATIONS AND EXCEPTIONS:		NONE
TOTAL CORRECTIONS		0.00 FEET

NET LENGTH OF PROJECT	1,211.11	FEET
STATE LENGTH	0.229	MILES
FOR INFORMATION ONLY		
ESTIMATED DISTURBED ACRES	1.24	ACRES





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

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090



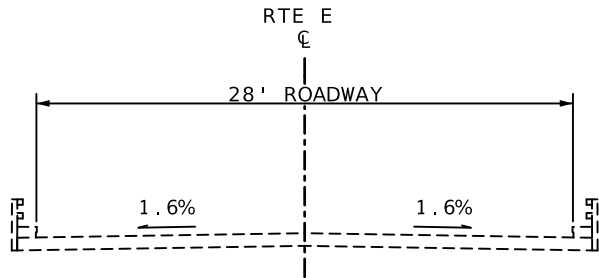
<p>OPTIONAL PAVEMENT</p> <p>10.0" HMA</p> <p>2" BITUMINOUS PAVEMENT MIXTURE PG58-28H (BP-1)</p> <p>OVER 8" BITUMINOUS PAVEMENT MIXTURE PG64-22 (BASE)</p> <p>ON 4" TYPE 1 AGGR. FOR BASE</p> <p>OR</p> <p>8" JPCP</p> <p>ON 4" TYPE 1 AGGR. FOR BASE</p>	
<p>OPTIONAL BRIDGE APPROACH SLAB(MINOR)</p> <p>12" MIN. HMA OR REINFORCED PCC</p>	

- (1)
- TRANSITION FROM EXIST. TO 12'

STA. 623+90.75 TO STA. 624+40.75

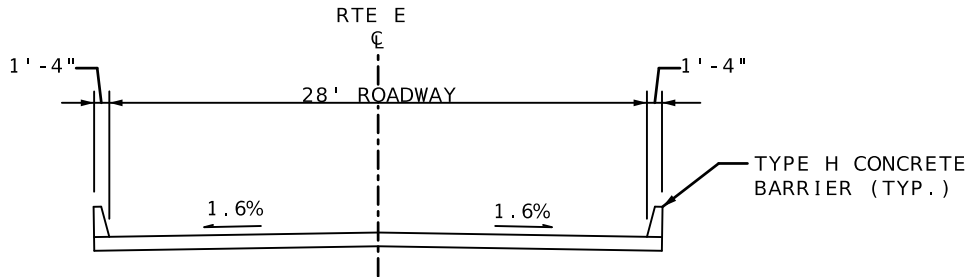
TRANSITION FROM 12' TO EXIST.

STA. 626+74.73 TO STA. 627+35.54



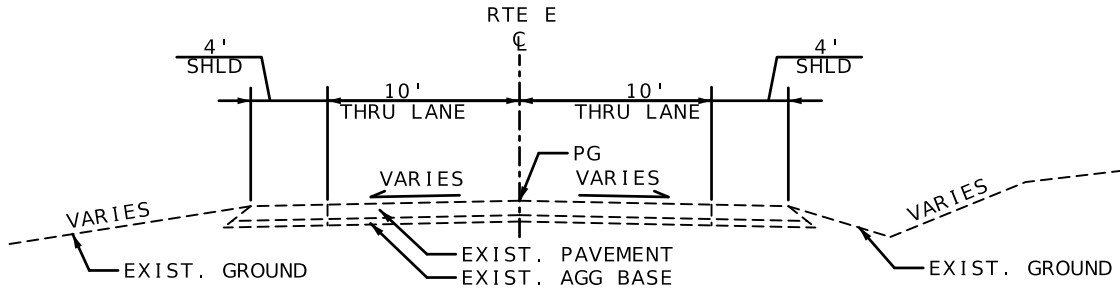
EXISTING TYPICAL SECTION - BRIDGE A2636

STA. 624+59.75 TO STA. 626+54.25

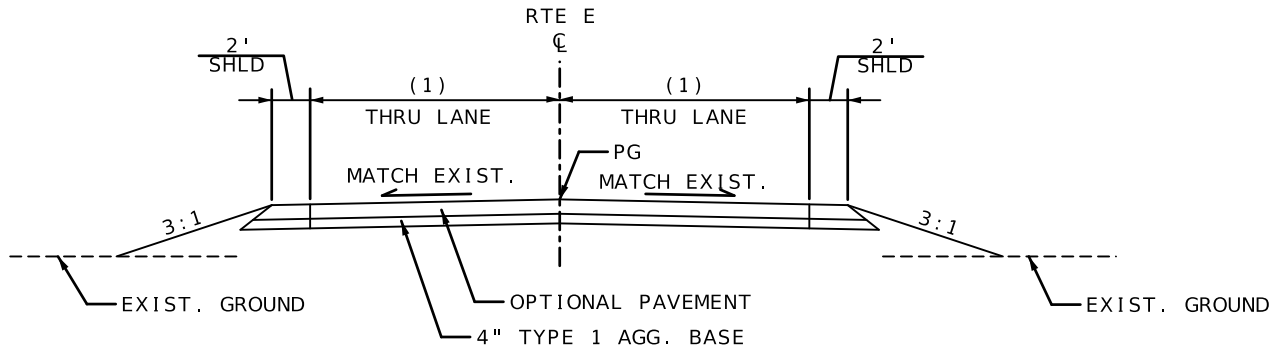


TYPICAL SECTION - BRIDGE A26361

STA. 624+59.75 TO STA. 626+54.25



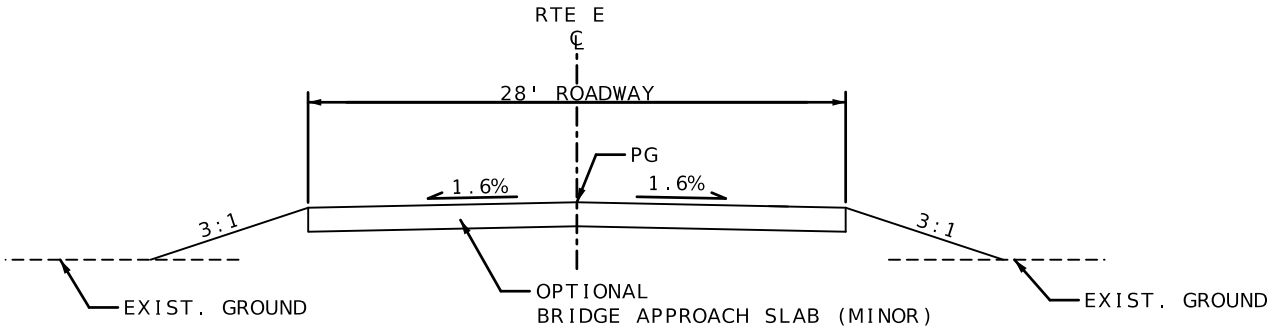
EXISTING TYPICAL SECTION



TYPICAL ROADWAY SECTION

STA. 623+90.75 TO STA. 624+40.25

STA. 626+73.75 TO STA. 627+35.54



APPROACH SLAB SECTION

STA. 624+40.25 TO STA. 624+60.25

STA. 626+53.75 TO STA. 626+73.75

NOT TO SCALE

RTE E

TYPICAL SECTIONS

SHEET 1 OF 4



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED

10/7/2025

ROUTE STATE

E/FF/111/00 MO

DISTRICT SHEET NO.

NW 2

COUNTY

VAR.

JOB NO.

JNW0014

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090



OPTIONAL PAVEMENT

10.0" HMA

2" BITUMINOUS PAVEMENT MIXTURE PG58-28H (BP-1)
OVER 8" BITUMINOUS PAVEMENT MIXTURE PG64-22 (BASE)
ON 4" TYPE 1 AGGR. FOR BASE

OR

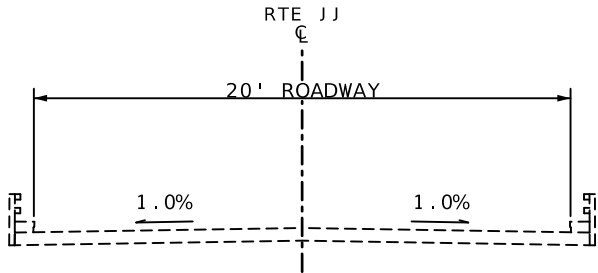
8" JPCP

ON 4" TYPE 1 AGGR. FOR BASE

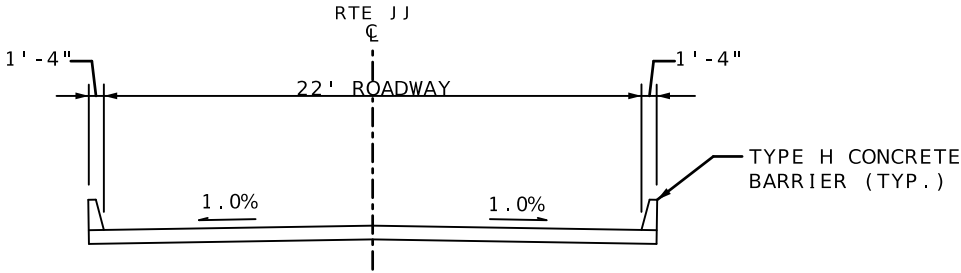
OPTIONAL BRIDGE APPROACH SLAB(MINOR)

12" MIN. HMA OR REINFORCED PCC

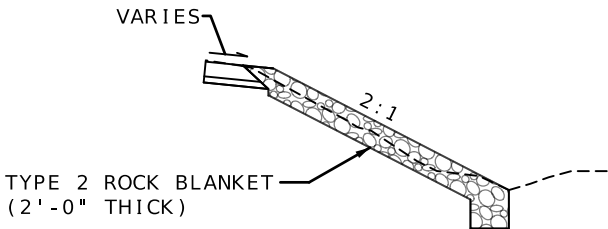
- (1) TRANSITION FROM EXIST. TO 11'
STA. 239+91.00 TO STA. 240+41.00
TRANSITION FROM 11' TO EXIST.
STA. 241+94.17 TO STA. 242+44.17



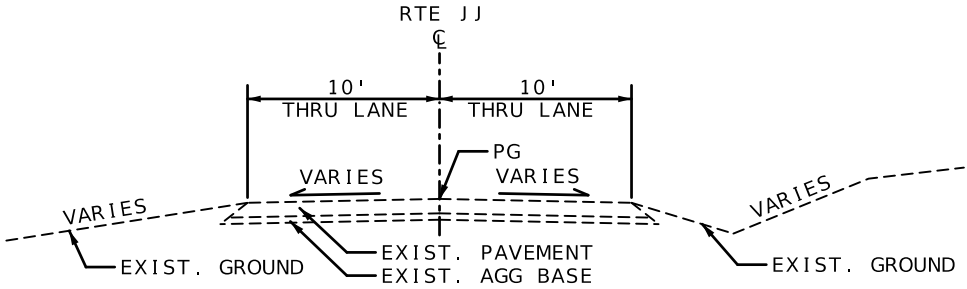
EXISTING TYPICAL SECTION - BRIDGE N02541
240+61.00 TO STA. 241+74.17



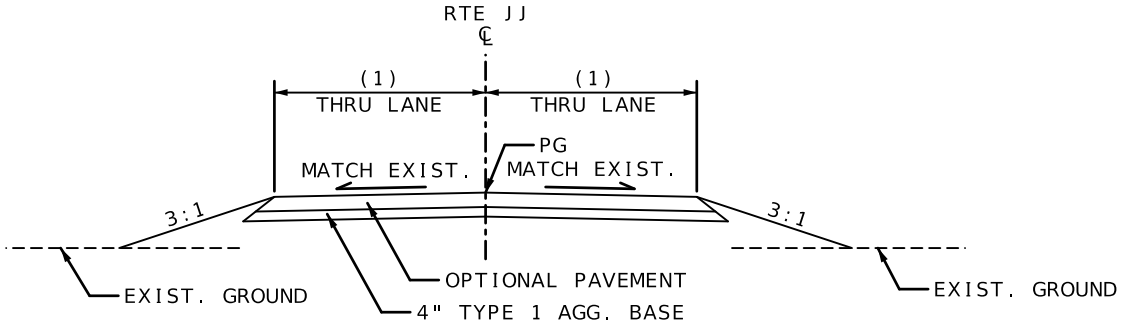
TYPICAL SECTION - BRIDGE N02542
STA. 240+61.00 TO STA. 241+74.17



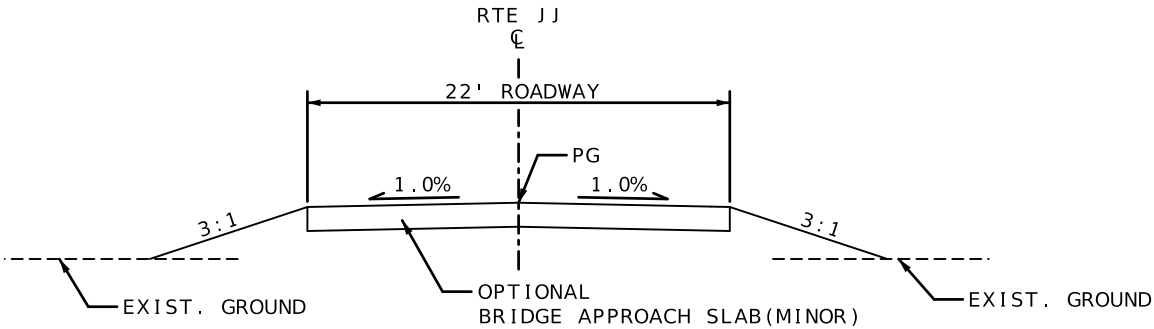
ROCK BLANKET
STA. 241+74.17 TO STA. 241+90.00



EXISTING TYPICAL SECTION



TYPICAL ROADWAY SECTION
STA. 239+91.00 TO STA. 240+41.00
STA. 241+94.17 TO STA. 242+44.17



APPROACH SLAB SECTION
STA. 240+41.00 TO STA. 240+61.00
STA. 241+74.17 TO STA. 241+94.17

NOT TO SCALE

RTE JJ

TYPICAL SECTIONS
SHEET 3 OF 4



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
10/7/2025

ROUTE STATE
E/FF/JJ/OO MO

DISTRICT SHEET NO.
NW 2

COUNTY
VAR.

JOB NO.
JNW0014

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)

Garver, LLC.

7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

Garver

OPTIONAL PAVEMENT

10.0" HMA

2" BITUMINOUS PAVEMENT MIXTURE PG58-28H (BP-1)

OVER 8" BITUMINOUS PAVEMENT MIXTURE PG64-22 (BASE)

ON 4" TYPE 1 AGGR. FOR BASE

OR

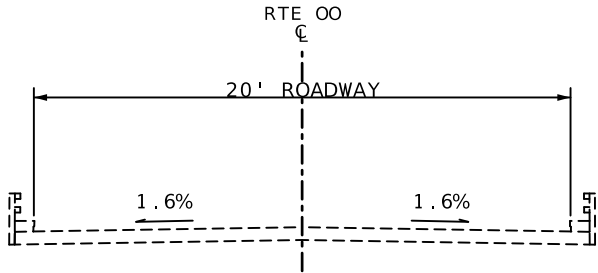
8" JPCP

ON 4" TYPE 1 AGGR. FOR BASE

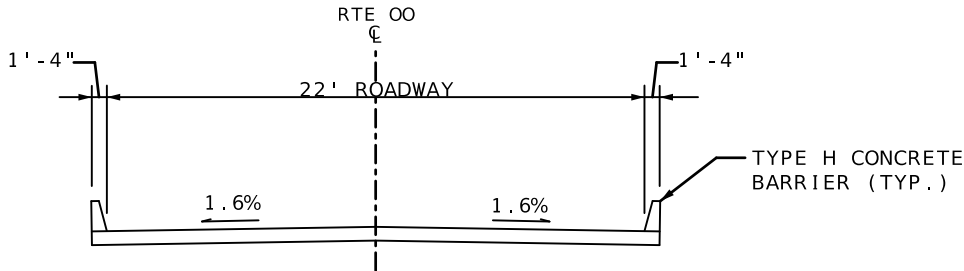
OPTIONAL BRIDGE APPROACH SLAB(MINOR)

12" MIN. HMA OR REINFORCED PCC

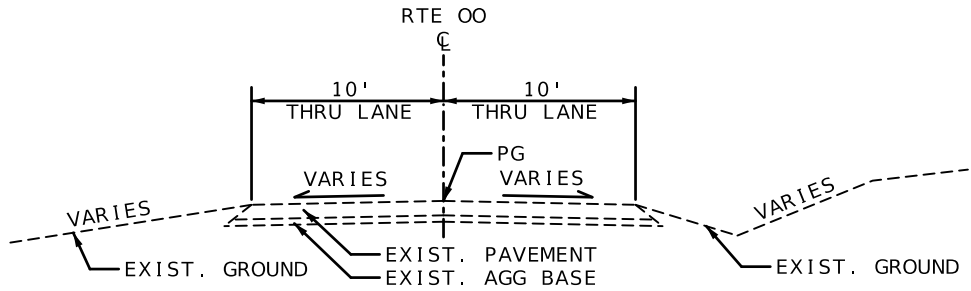
- (1) TRANSITION FROM EXIST. TO 11'
STA. 285+41.62 TO STA. 285+76.10
TRANSITION FROM 11' TO EXIST.
STA. 288+19.60 TO STA. 288+69.60



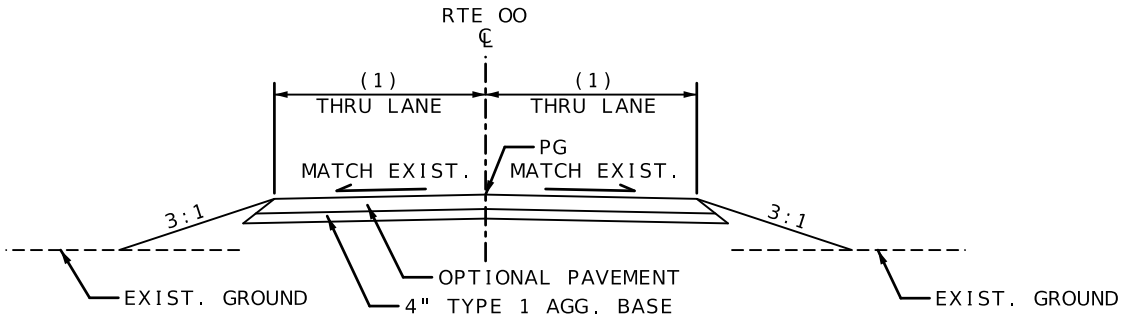
EXISTING TYPICAL SECTION - BRIDGE N0973
STA. 285+96.10 TO STA. 287+99.60



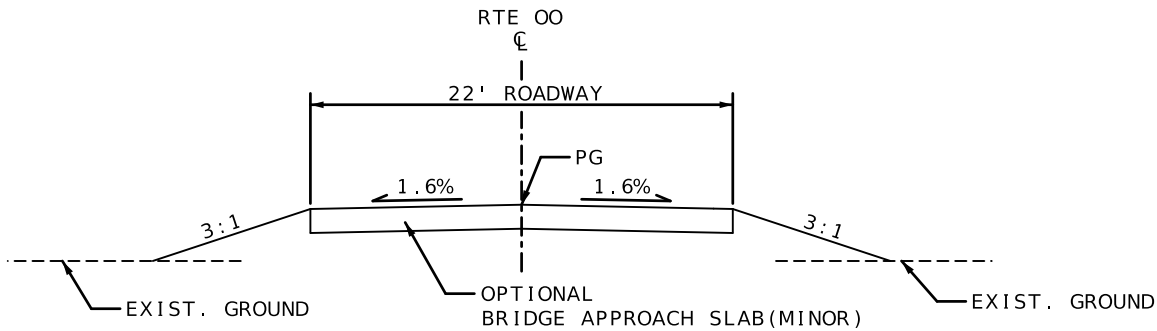
TYPICAL SECTION - BRIDGE N09731
STA. 285+96.10 TO STA. 287+99.60



EXISTING TYPICAL SECTION



TYPICAL ROADWAY SECTION
STA. 285+41.62 TO STA. 285+76.10
STA. 288+19.60 TO STA. 288+69.60

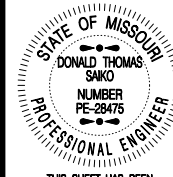


APPROACH SLAB SECTION
STA. 285+76.10 TO STA. 285+96.10
STA. 287+99.60 TO STA. 288+19.60

NOT TO SCALE

RTE OO

TYPICAL SECTIONS
SHEET 4 OF 4



DATE PREPARED
10/7/2025

ROUTE
E/FF/111/OO

STATE
MO

DISTRICT
NW

SHEET NO.
2

COUNTY
VAR.

JOB NO.
JNW0014

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

MODOT

GARVER, LLC.

7509 NW TIFFANY SPRINGS

PARKWAY, SUITE 200

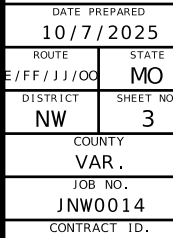
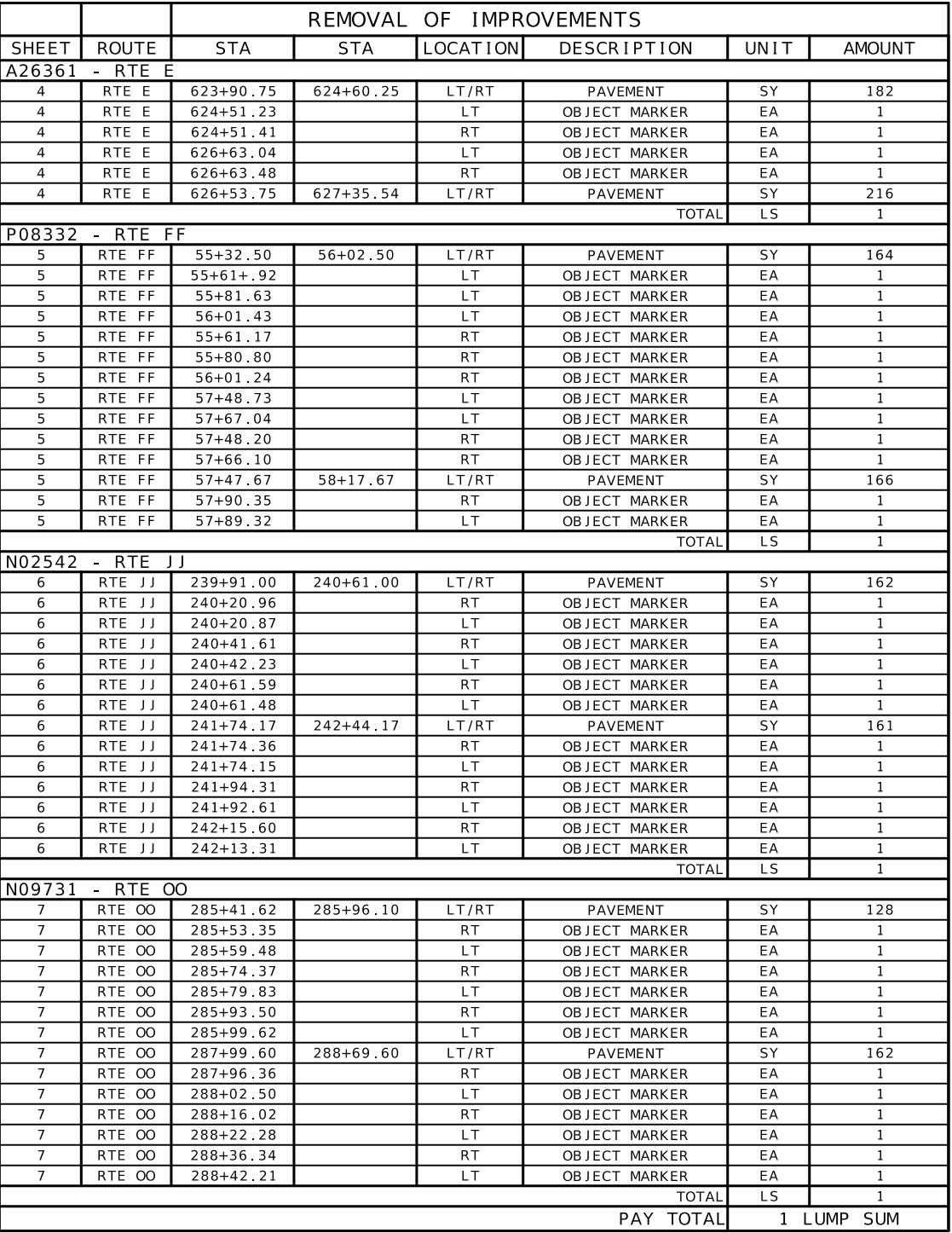
KANSAS CITY, MO 64153

PHONE: (816) 298-6465

CERTIFICATE OF AUTHORITY

NO. 2008013090

GARVER



PROJECT NO.
BRIDGE NO.

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITAL
JEFFERSON CITY, MO 65102

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090



PAVEMENT							
SHEET	ROUTE	BEGIN STA.	END STA.	LOCATION	OPTIONAL PAVEMENT (SY)	TYPE 1 AGGREGATE FOR BASE (4") (SY)	REMARKS
A26361 - RTE E							
4	RTE E	623+90.75	624+40.25	LT/RT	137.3	137	
4	RTE E	626+73.75	627+35.54	LT/RT	169.5	170	
4	RTE E	627+00.49		LT		58	GRAVEL ENTRANCE
4	RTE E	627+03.43		RT		37	GRAVEL ENTRANCE
TOTAL					306.8	402	
P08332 - RTE FF							
5	RTE FF	55+32.50	55+82.50	LT/RT	115.2	115	
5	RTE FF	57+67.67	58+17.67	LT/RT	117.0	117	
TOTAL					232.2	232	
N02542 - RTE JJ							
6	RTE JJ	239+91.00	240+41.00	LT/RT	113.4	113	
6	RTE JJ	241+94.17	242+44.17	LT/RT	112.1	112	
TOTAL					225.5	225	
N09731- RTE OO							
7	RTE OO	285+41.62	285+76.10	LT/RT	78.9	79	
7	RTE OO	288+19.60	288+69.60	LT/RT	113.0	113	
TOTAL					191.9	192	
PROJECT TOTAL					956.4	1051	
PAY TOTAL					956.4	1051	

LINEAR GRADING CLASS II					
SHEET	ROUTE	BEGIN STA.	END STA.	LOCATION	LENGTH STA.
A26361 - RTE E					
4	RTE E	623+90.75	624+40.25	☐	0.5
4	RTE E	626+73.75	627+35.54	☐	0.6
TOTAL					1.1
P08332 - RTE FF					
5	RTE FF	55+32.50	55+82.50	☐	0.5
5	RTE FF	57+67.67	58+17.67	☐	0.5
TOTAL					1.0
N02542 - RTE JJ					
6	RTE JJ	239+91.00	240+41.00	☐	0.5
6	RTE JJ	241+94.17	242+44.17	☐	0.5
TOTAL					1.0
N09731- RTE OO					
7	RTE OO	285+41.62	285+76.10	☐	0.3
7	RTE OO	288+19.60	288+69.60	☐	0.5
TOTAL					0.8
PROJECT TOTAL					3.9
PAY TOTAL					4.0

SEEDING & MULCHING						
SHEET	ROUTE	BEGIN STA.	END STA.	LOCATION	COOL SEASON MIXTURES (ACRE)	MODIFIED TYPE 2D EROSION CONTROL BLANKET (SY)
A26361 - RTE E						
12	RTE E	623+90.75	624+59.75	LT/RT	0.01	35
12	RTE E	626+54.25	627+35.54	LT/RT	0.01	45
TOTAL					0.02	80
P08332 - RTE FF						
18	RTE FF	55+32.50	56+02.50	LT/RT	0.04	170
18	RTE FF	57+47.67	58+17.67	LT/RT	0.02	118
TOTAL					0.06	288
N02542 - RTE JJ						
24	RTE JJ	239+91.00	240+61.00	LT/RT	0.03	159
24	RTE JJ	241+74.17	242+44.17	LT/RT	0.02	73
TOTAL					0.05	232
N09731- RTE OO						
30	RTE OO	285+41.62	286+01.18	LT/RT	0.01	69
30	RTE OO	287+94.47	288+69.60	LT/RT	0.03	141
TOTAL					0.04	210
PROJECT TOTAL					0.17	810
PAY TOTAL					1.0	810

STATE OF MISSOURI

DONALD THOMAS SAKO

NUMBER PE-28475

PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
10/7/2025

ROUTE
E/FF/JJ/OO

DISTRICT
NW

STATE
MO

SHEET NO.
3

COUNTY
VAR.

JOB NO.
JNW0014

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

GARVER

TEMPORARY EROSION CONTROL						
SHEET	ROUTE	BEGIN STA.	END STA.	LOCATION	SILT FENCE (LF)	SEDIMENT REMOVAL (CY)
A26361 - RTE E						
12	RTE E	623+91	624+62	LT	76	1
12	RTE E	623+91	624+62	RT	72	1
12	RTE E	626+53	627+37	LT	97	2
12	RTE E	626+53	627+36	RT	76	1
TOTAL					321	5
P08332 - RTE FF						
18	RTE FF	55+33	56+03	LT	105	2
18	RTE FF	55+30	56+04	RT	118	2
18	RTE FF	57+50	58+19	LT	75	1
18	RTE FF	57+49	58+19	RT	88	1
TOTAL					386	6
N02542 - RTE JJ						
24	RTE JJ	239+91	240+63	LT	81	1
24	RTE JJ	239+91	240+60	RT	86	1
24	RTE JJ	241+73	242+46	LT	82	1
24	RTE JJ	241+91	242+44	RT	62	1
TOTAL					311	4
N09731- RTE OO						
30	RTE OO	285+50	285+99	LT	66	1
30	RTE OO	285+50	285+86	RT	47	1
30	RTE OO	288+04	288+70	LT	122	2
30	RTE OO	287+95	288+69	RT	78	1
TOTAL					313	5
PROJECT TOTAL					1331	20
PAY TOTAL					1331	20

PERMANENT EROSION CONTROL							
SHEET	ROUTE	BEGIN STA.	END STA.	LOCATION	TYPE 2 ROCK BLANKET		PERM EROSION CONTROL GEOTEXTILE (SY)
					FURNISHING (CY)	PLACING (CY)	
A26361 - RTE E							
4	RTE E	624+59.75	624+76.65	LT/RT	52	52	78
4	RTE E	626+39.23	626+54.25	LT/RT	37	37	55
TOTAL					89	89	133
P08332 - RTE FF							
5	RTE FF	56+02.50	56+20.13	LT/RT	47	47	71
5	RTE FF	57+09.29	57+47.67	LT/RT	131	131	196
TOTAL					178	178	267
N02542 - RTE JJ							
6	RTE JJ	240+61.00	240+77.91	LT/RT	59	59	88
6	RTE JJ	241+59.66	241+90.00	LT/RT	58	58	87
TOTAL					117	117	175
N09731- RTE OO							
7	RTE OO	285+87.87	286+18.97	LT/RT	85	85	128
7	RTE OO	287+62.55	288+04.63	LT/RT	161	161	242
TOTAL					246	246	370
PROJECT TOTAL					630	630	945
PAY TOTAL					630	630	945

PAVEMENT MARKING							
BEGIN STATION	END STATION	ROUTE	LENGTH	CLASS 1 PAVEMENT MARKING PAINT TYPE P BEADS			
				4" SOLID	4" INT.	4" DOUBLE SOLID	4" SOLID
				WHITE	YELLOW	YELLOW	YELLOW
				(FT)	(FT)	(FT)	(FT)
620+90.75	630+35.54	E	944.79	1890	236		
55+32.50	61+17.67	FF	885.17		75	1170	300
239+91.00	245+44.17	JJ	853.17		150	506	600
282+41.62	291+69.60	OO	927.98	1856		1856	
PROJECT TOTAL				3746	461	3532	900
PAY TOTAL				3746	4893		

MOBILIZATION
1 LUMP SUM

CONTRACTOR FURNISHED SURVEYING & STAKING
1 LUMP SUM

STATE OF MISSOURI

DONALD THOMAS SAKO

NUMBER PE-28475

PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 10/7/2025

ROUTE STATE

E/FF/JJ/OO MO

DISTRICT SHEET NO.

NW 3

COUNTY VAR.

JOB NO. JNW0014

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)

GARVER, LLC.

7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200 KANSAS CITY, MO 64153

PHONE: (816) 298-6465

CERTIFICATE OF AUTHORITY NO. 2008013090



SUMMARY OF QUANTITIES

SHEET 3 OF 6

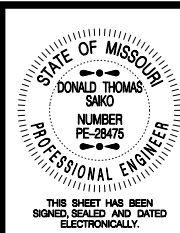
GARVER

STRUCTURAL STEEL POST AND FOOTING DATA TABLE													
		POST			FOOTING								
POST DES. NO.	NOM. SIZE	WEIGHT		STUB LENGTH	DIA.	LEVEL GROUND		6:1 GRADE		4:1 GRADE		3:1 OR 2:1 GRADE	
		LBS/FT	LBS/LN			DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65



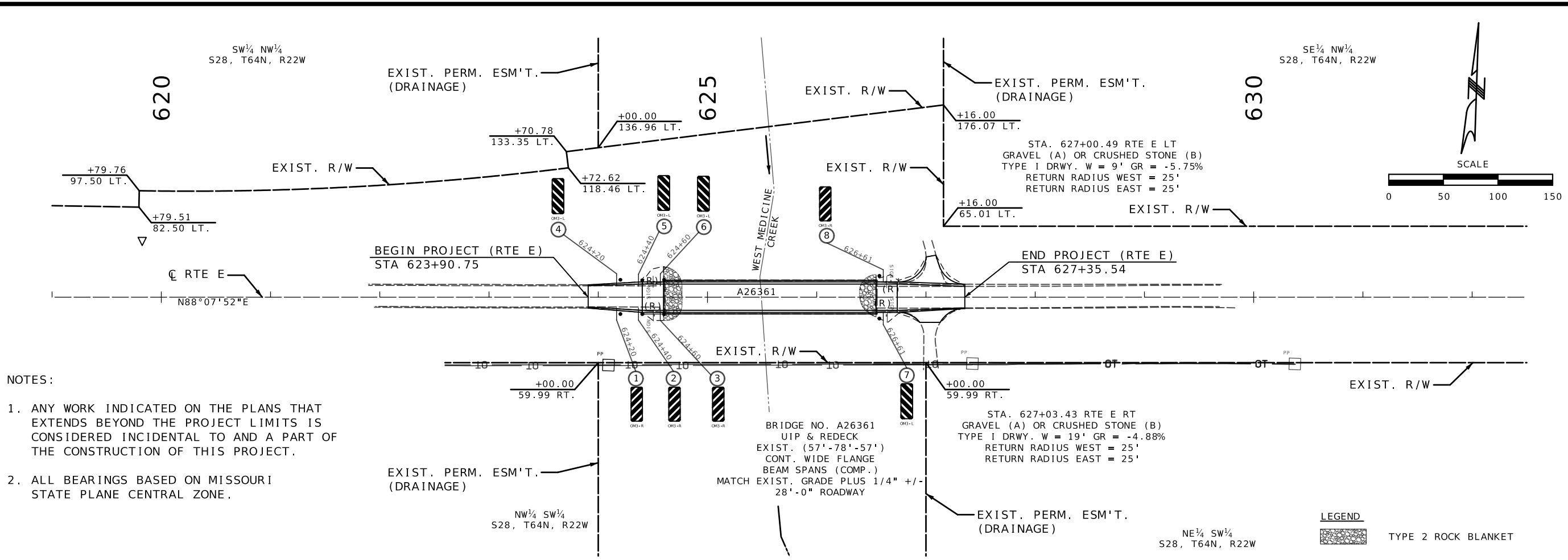
STANDARD SIGN ASSEMBLIES																					
SIGN NO.	STATION OR LOG MILE	LOCATION	SIGN, TYPE, DESIGNATION, SIZE & NUMBER OF EACH																		
			OM3-R	OM3-L																	
																					
A26361 - RTE E																					
①	624+20	RT	1																		
②	624+40	RT	1																		
③	624+60	RT	1																		
④	624+20	LT		1																	
⑤	624+40	LT		1																	
⑥	624+60	LT		1																	
⑦	626+61	RT	1																		
⑧	626+61	LT		1																	
A08332 - RTE FF																					
①	55+59	RT	1																		
②	55+79	RT	1																		
③	55+99	RT	1																		
④	55+59	LT		1																	
⑤	55+79	LT		1																	
⑥	55+99	LT		1																	
⑦	57+51	RT	1																		
⑧	57+71	RT	1																		
⑨	57+91	RT	1																		
⑩	57+51	LT		1																	
⑪	57+71	LT		1																	
⑫	57+91	LT		1																	
N02542 - RTE JJ																					
①	240+17	RT	1																		
②	240+37	RT	1																		
③	240+57	RT	1																		
④	240+17	LT		1																	
⑤	240+37	LT		1																	
⑥	240+57	LT		1																	
⑦	241+78	RT	1																		
⑧	241+98	RT	1																		
⑨	242+18	RT	1																		
⑩	241+78	LT		1																	
⑪	241+98	LT		1																	
⑫	242+18	LT		1																	
N09731 - OO																					
①	285+50	RT	1																		
②	285+70	RT	1																		
③	285+90	RT	1																		
④	285+56	LT		1																	
⑤	285+76	LT		1																	
⑥	285+96	LT		1																	
⑦	288+00	RT	1																		
⑧	288+20	RT	1																		
⑨	288+40	RT	1																		
⑩	288+06	LT		1																	
⑪	288+26	LT		1																	
⑫	288+46	LT		1																	
</																					

*ORANGE, YELLOW AND YELLOW-GREEN

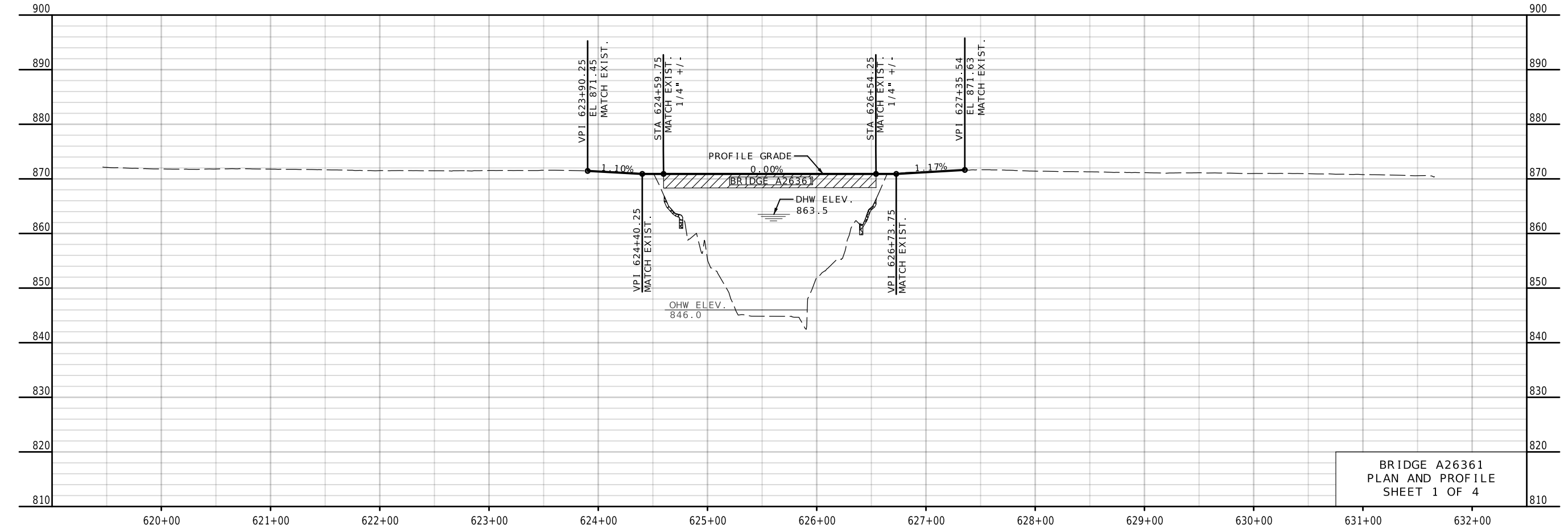


NOTE: ALL TEMPORARY TRAFFIC CONTROL ITEMS ARE INCLUDED IN PAY ITEM 616-99.01 LUMP SUM TEMPORARY TRAFFIC CONTROL. UNLESS OTHERWISE NOTED, QUANTITIES SHOWN ARE ESTIMATE ONLY AND SUBJECT TO CHANGE BASED ON FIELD CONDITIONS.

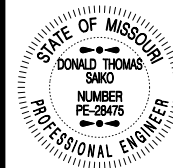




- NOTES:
1. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
 2. ALL BEARINGS BASED ON MISSOURI STATE PLANE CENTRAL ZONE.



BRIDGE A26361
PLAN AND PROFILE
SHEET 1 OF 4



DATE PREPARED
10/7/2025

ROUTE
E/FF/JJ/OC

DISTRICT
NW

COUNTY
VAR.

JOB NO.
JNW0014

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)

GARVER, LLC.

7509 NW TIFFANY SPRINGS

PARKWAY, SUITE 200

KANSAS CITY, MO 64153

PHONE: (816) 298-6465

CERTIFICATE OF AUTHORITY

NO. 2008013090

BRIDGE A26361

PLAN AND PROFILE

SHEET 1 OF 4

DATE PREPARED

10/7/2025

ROUTE

E/FF/JJ/OC

DISTRICT

NW

COUNTY

VAR.

JOB NO.

JNW0014

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

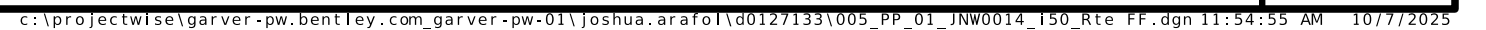
DATE

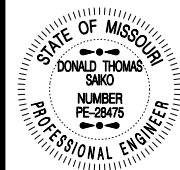
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

[illegible]



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
10/7/2025

ROUTE STATE
E/FF/111/00 MO

DISTRICT SHEET NO.
NW 7

COUNTY
VAR.

JOB NO.
JNW0014

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)

GARVER, LLC.

7509 NW TIFFANY SPRINGS

PARKWAY, SUITE 200

KANSAS CITY, MO 64153

PHONE: (816) 298-6465

CERTIFICATE OF AUTHORITY

NO. 2008013090

BRIDGE N09731

PLAN AND PROFILE

SHEET 4 OF 4

BRIDGE N09731

PLAN AND PROFILE

SHEET 4 OF 4

BRIDGE N09731

PLAN AND PROFILE

SHEET 4 OF 4

BRIDGE N09731

PLAN AND PROFILE

SHEET 4 OF 4

BRIDGE N09731

PLAN AND PROFILE

SHEET 4 OF 4

BRIDGE N09731

PLAN AND PROFILE

SHEET 4 OF 4

BRIDGE N09731

PLAN AND PROFILE

SHEET 4 OF 4

BRIDGE N09731

PLAN AND PROFILE

SHEET 4 OF 4

BRIDGE N09731

PLAN AND PROFILE

SHEET 4 OF 4

BRIDGE N09731

PLAN AND PROFILE

SHEET 4 OF 4

BRIDGE N09731

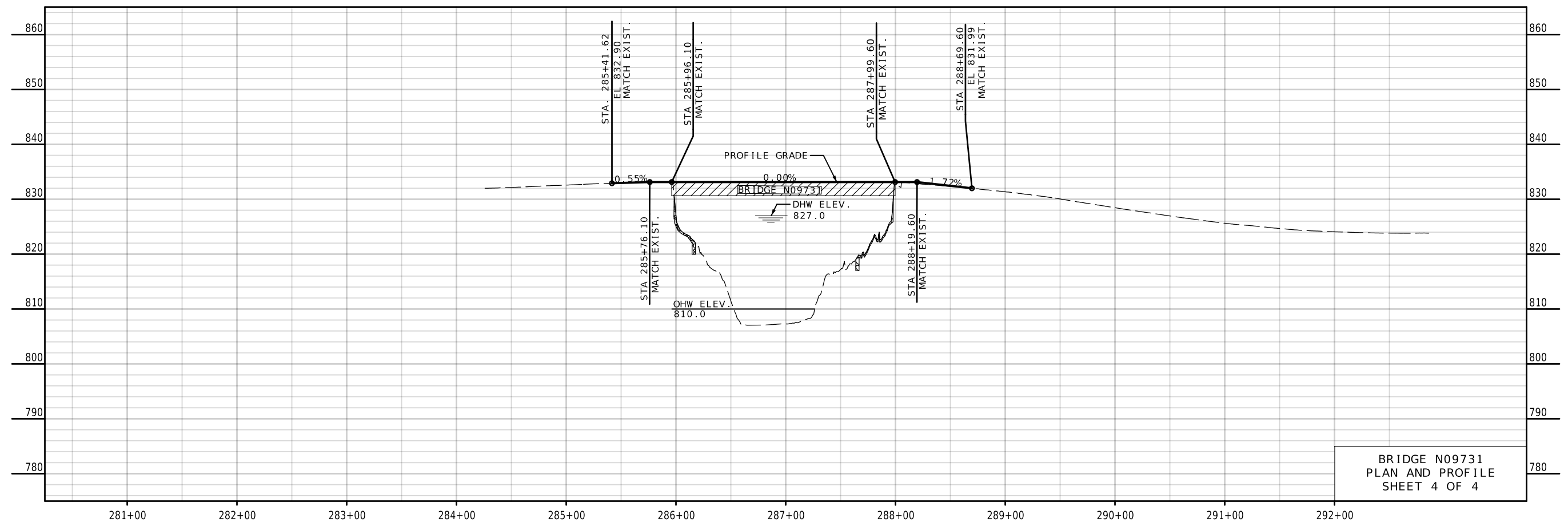
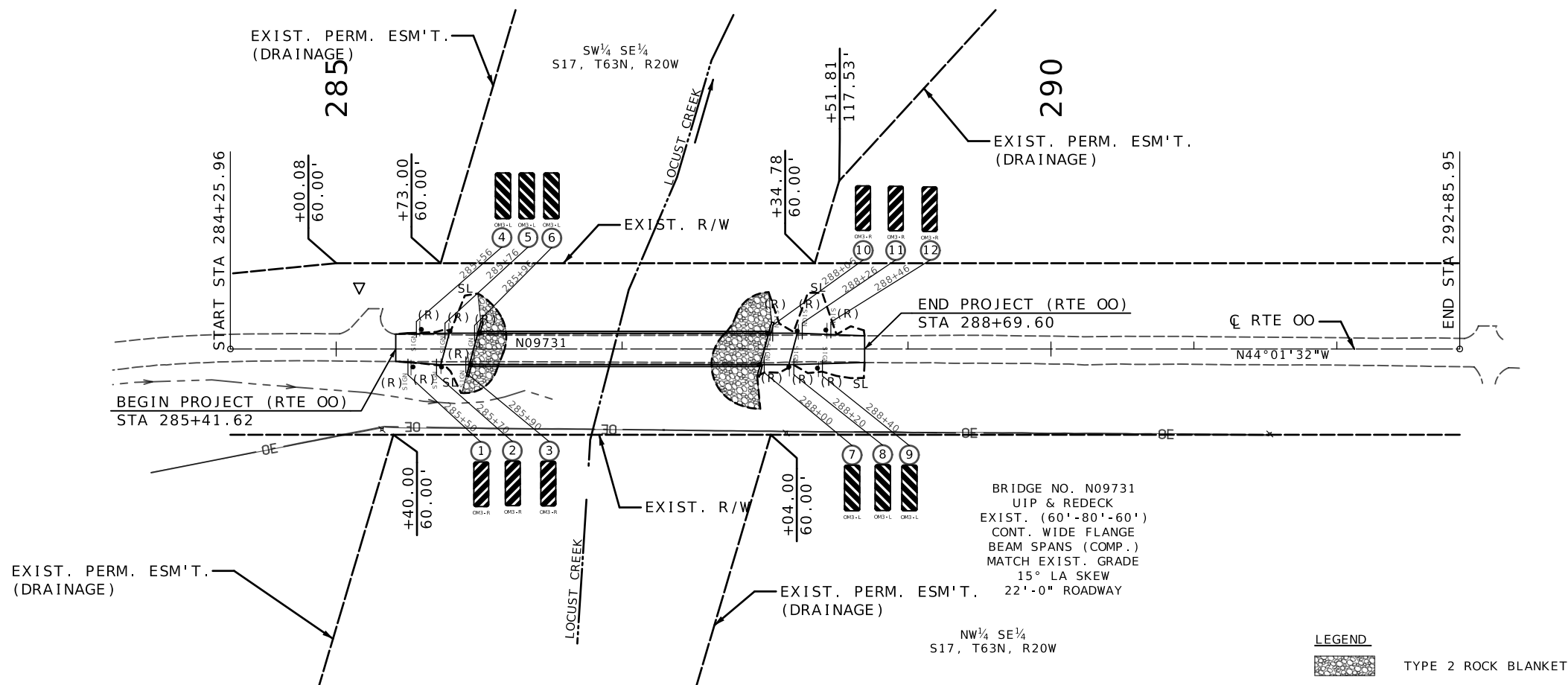
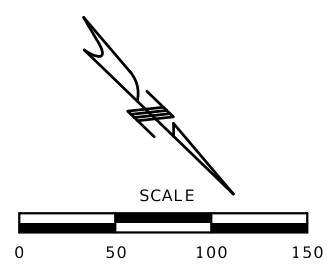
PLAN AND PROFILE

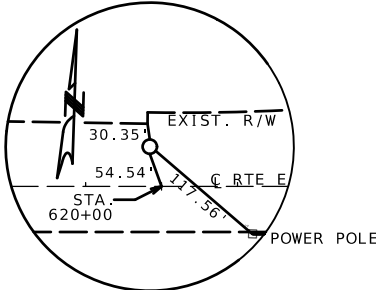
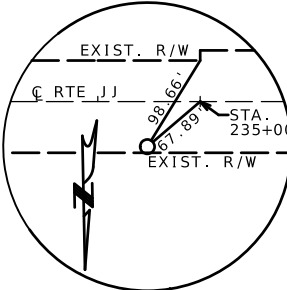
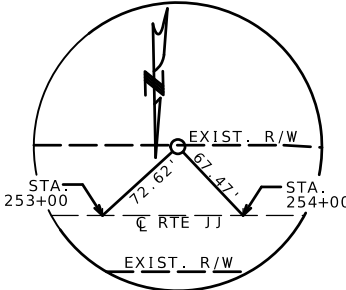
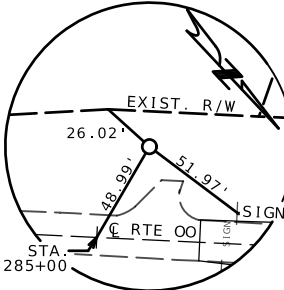
SHEET 4 OF 4

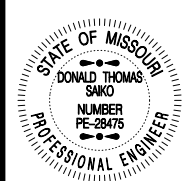
BRIDGE N09731

PLAN AND PROFILE

SHEET 4 OF 4



RTE E - BRIDGE A2636		RTE JJ - BRIDGE N0254		RTE OO - BRIDGE N0973			
<div></div> <div>CONTROL POINT #100 N: 2387683.853 E: 604972.359 ELEV. 867.499 C RTE E STA. 619+82.83, 52.30' LT</div>		<div></div> <div>CONTROL POINT #100 N: 2371505.483 E: 570691.232 ELEV. 904.174 C RTE JJ STA. 234+48.37, 44.08' LT</div>		<div></div> <div>CONTROL POINT #101 N: 2371451.031 E: 568784.499 ELEV. 907.292 C RTE JJ STA. 253+53.61, 48.99' RT</div>		<div></div> <div>CONTROL POINT #101 N: 2366100.306 E: 665599.821 ELEV. 829.112 C RTE OO STA. 285+16.07, 43.48' LT</div>	



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
10/7/2025

ROUTE STATE
E/FF/JJ/OO MO

DISTRICT SHEET NO.
NW 8

COUNTY
VAR.

JOB NO.
JNW0014

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



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

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090



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

LINEUS LDP

HORIZONTAL DATUM

NAD 83 (2011) (EPOCH 2010)

VERTICAL DATUM

NAVD 88

GEOID MODEL

18

ELEVATIONS DETERMINED BY

PROJECT PROJECTION FACTOR

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM

LINEUS LDP

CONTROL STATION

DESIGNATION

MODOT MILAN CORS

CORS_ID

MOML

PID

DN6087

LATITUDE

N 40°12'37.76061"

LONGITUDE

W 93°06'57.87621"

NORTHING (M)

-4,870,613.0230

EASTING (M)

-265,153.656

ZONE

CENTRAL

PROJECT AVERAGE GRID FACTOR

0.99993152

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 # 1

N 2,387,683.8530 X 0.99993152 = N 2,387,520.3444

E 604,972.3590 X 0.99993152 = E 604,930.9305

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

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)		
PROJECT CONTROL POINTS								
4	619+82.83	RTE E	52.30' LT	2,387,683.8530	604,972.3590	867.4990	CONTROL POINT NO. 100	
6	234+48.37	RTE JJ	44.08' LT	2,371,505.4830	570,691.2320	904.1740	CONTROL POINT NO. 100	
6	253+53.61	RTE JJ	48.99' RT	2,371,451.0310	568,784.4990	907.2920	CONTROL POINT NO. 101	
7	285+16.07	RTE OO	43.48' LT	2,366,100.3060	665,599.8210	829.1120	CONTROL POINT NO. 101	
ALIGNMENTS								
4	623+90.75	RTE E	0	2,387,644.8985	605,382.1200		BEGIN PROJECT RTE E	
4	627+35.54	RTE E	0	2,387,656.1426	605,726.7276		END PROJECT RTE E	
5	55+32.50	RTE FF	0	2,444,284.2746	788,183.5910		BEGIN PROJECT RTE FF	
5	58+17.67	RTE FF	0	2,443,999.2265	788,191.8162		END PROJECT RTE FF	
6	239+91.00	RTE JJ	0	2,371,472.4062	570,147.8221		BEGIN PROJECT RTE JJ	
6	242+44.17	RTE JJ	0	2,371,477.5348	569,894.7071		END PROJECT RTE JJ	
7	285+41.62	RTE OO	0	2,366,148.8950	665,613.3237		BEGIN PROJECT RTE OO	
7	288+69.60	RTE OO	0	2,366,384.7244	665,385.3827		END PROJECT RTE OO	

STATE OF MISSOURI

DONALD THOMAS

SAKO

NUMBER

PE-28475

PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED

10/29/2025

ROUTE

E/FF/JJ/OO

STATE

MO

DISTRICT

NW

SHEET NO.

9

COUNTY

VAR.

JOB NO.

JNW0014

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

MODOT

MISSOURI

GARVER, LLC.

7509 NW TIFFANY SPRINGS PARKWAY, SUITE 200

KANSAS CITY, MO 64153

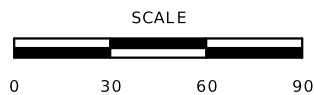
PHONE: (816) 298-6465

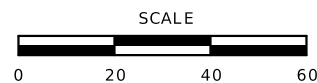
CERTIFICATE OF AUTHORITY NO. 2008013090

Garver

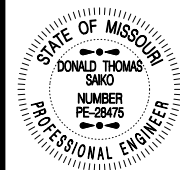
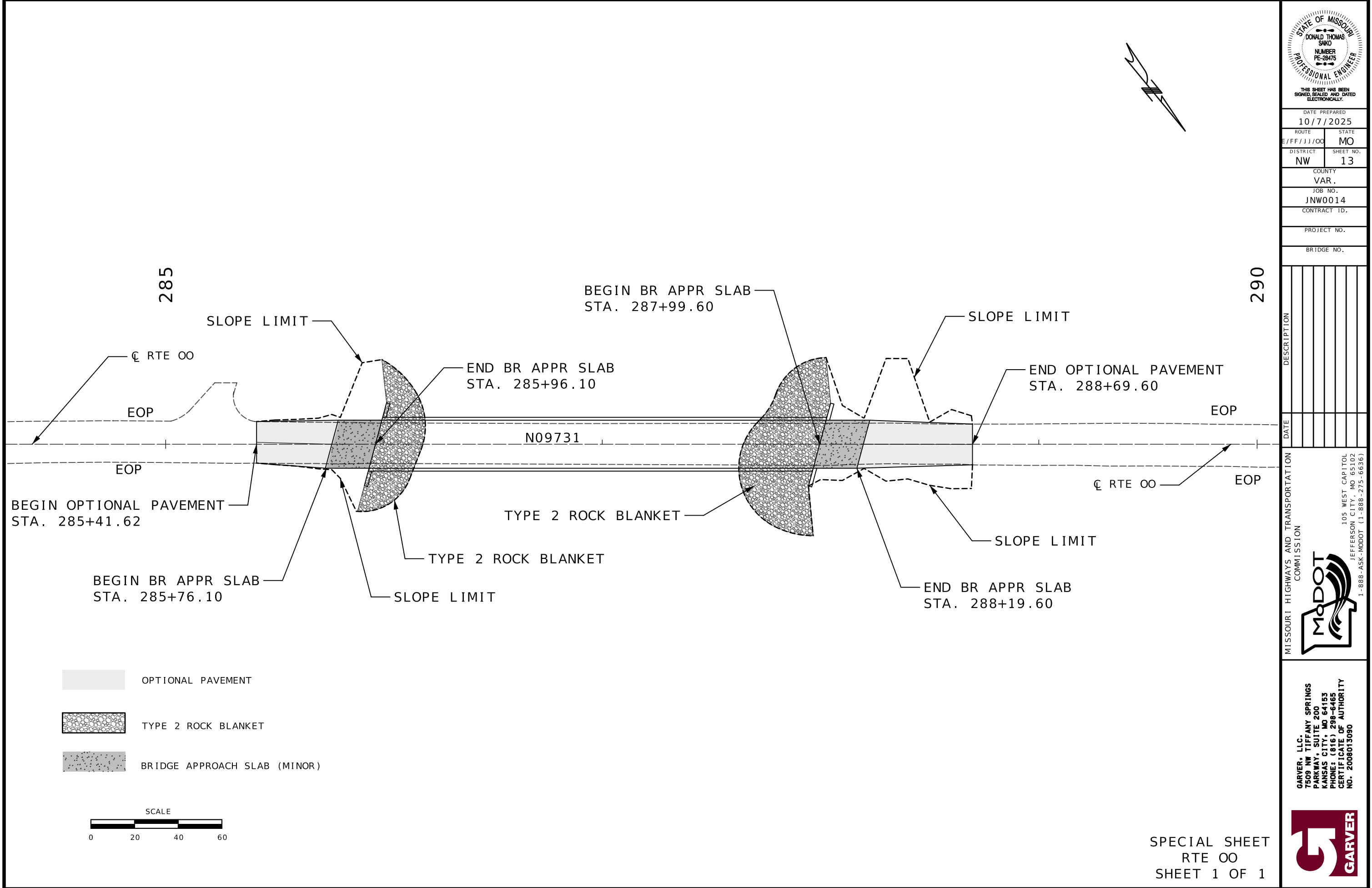
COORDINATE POINTS
SHEET 1 OF 1

c:\projectwise\garver-pw.bentley.com_garver-pw-01\eric.mutabazi\d0127133\009_CP_JNW0014_11.dgn 11:54:09 PM 10/29/2025



[illegible]





THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
10/7/2025

ROUTE STATE
E/FF/J/J/OO MO

DISTRICT SHEET NO.
NW 13

COUNTY
VAR.

JOB NO.
JNW0014

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

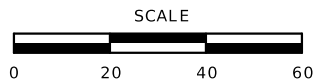
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

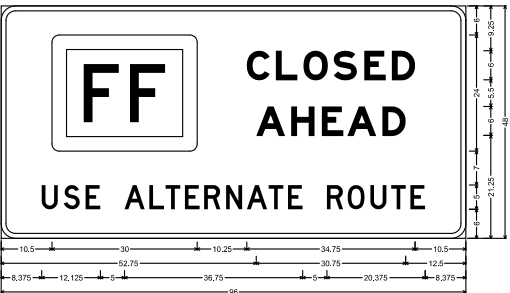
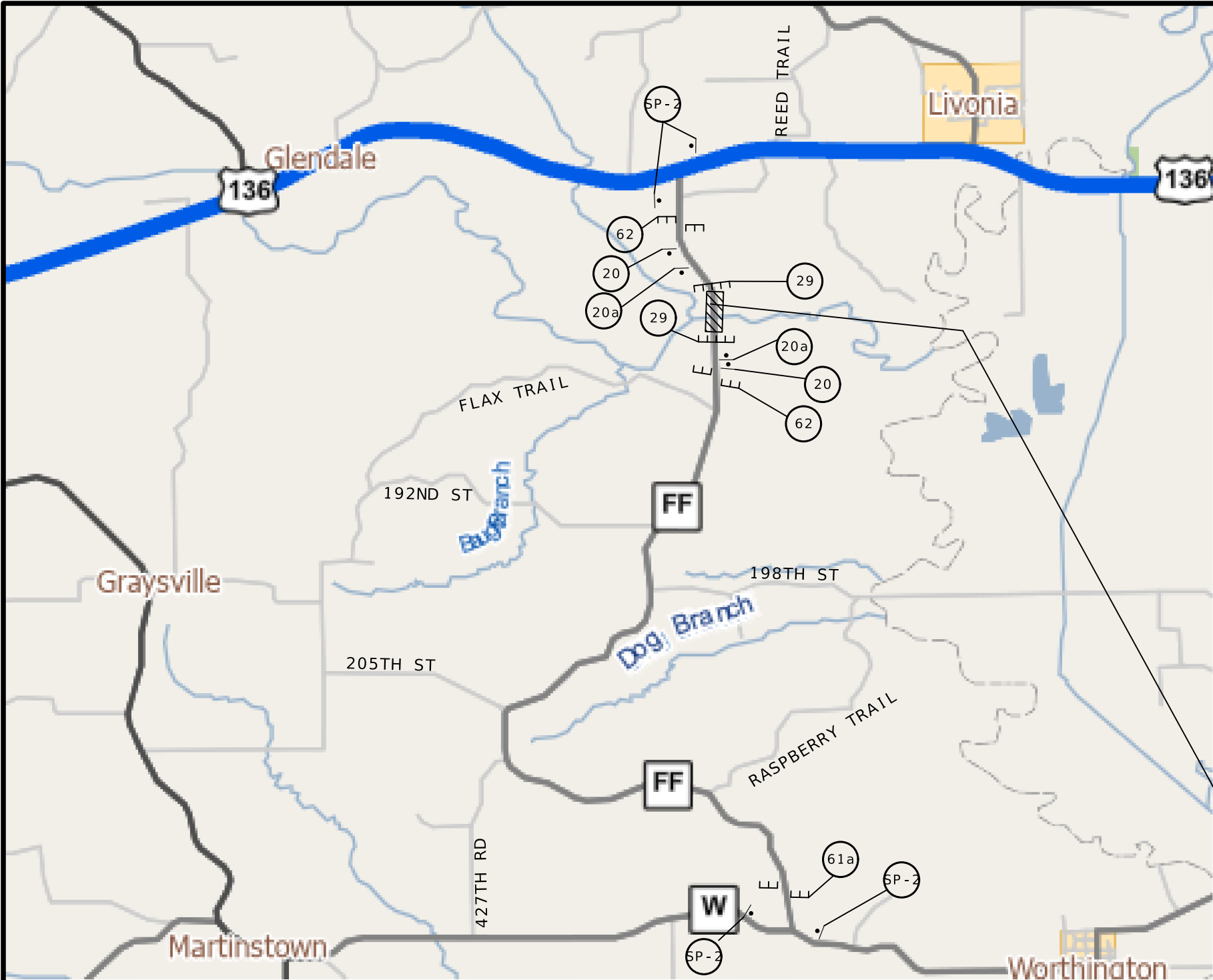
GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090



- OPTIONAL PAVEMENT
- TYPE 2 ROCK BLANKET
- BRIDGE APPROACH SLAB (MINOR)



SPECIAL SHEET
RTE OO
SHEET 1 OF 1



MO-13 SHF-FLAT SHEET FLUORESCENT:
3,000' Radius, 1,000' Border, Black on Orange.
"CLOSED" E Made "AHEAD" E Made "USE ALTERNATE ROUTE". D:
Table of letter and object sets

Object	Offset (ft)
Sign	10.5
Sign	30
Sign	52.75
Sign	75
Sign	96

SP-2

ROAD CLOSED
TO
THRU TRAFFIC

62

ROAD
CLOSED

29

ROAD CLOSED
5 MILES AHEAD
LOCAL TRAFFIC ONLY

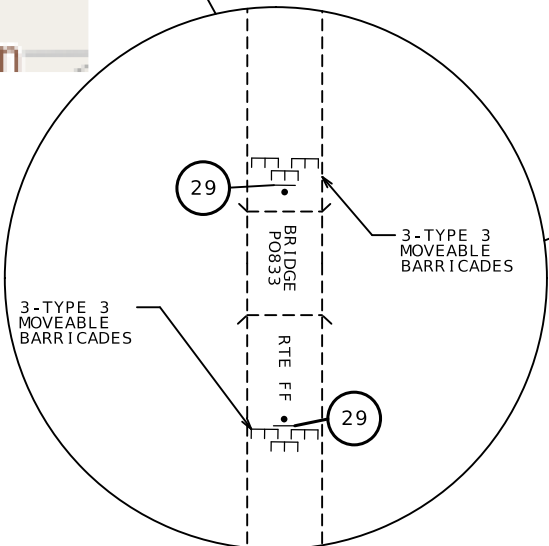
61a

ROAD
CLOSED
AHEAD

20

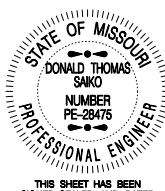
ROAD
CLOSED
500 FT

20a



DURING BRIDGE
POB33 CONSTRUCTION
AND PAVEMENT CONSTRUCTION

TRAFFIC CONTROL
RTE FF
SHEET 1 OF 1



DATE PREPARED
10/7/2025

ROUTE
E/FF/11/00

DISTRICT
NW

SHEET NO.
15

COUNTY
VAR.

JOB NO.
JNW0014

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

MODOT

GARVER, LLC.

7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

TRAFFIC CONTROL

RTE FF

SHEET 1 OF 1

TRAFFIC CONTROL

RTE FF

SHEET 1 OF 1

TRAFFIC CONTROL

RTE FF

SHEET 1 OF 1

TRAFFIC CONTROL

RTE FF

SHEET 1 OF 1

TRAFFIC CONTROL

RTE FF

SHEET 1 OF 1

TRAFFIC CONTROL

RTE FF

SHEET 1 OF 1

TRAFFIC CONTROL

RTE FF

SHEET 1 OF 1

TRAFFIC CONTROL

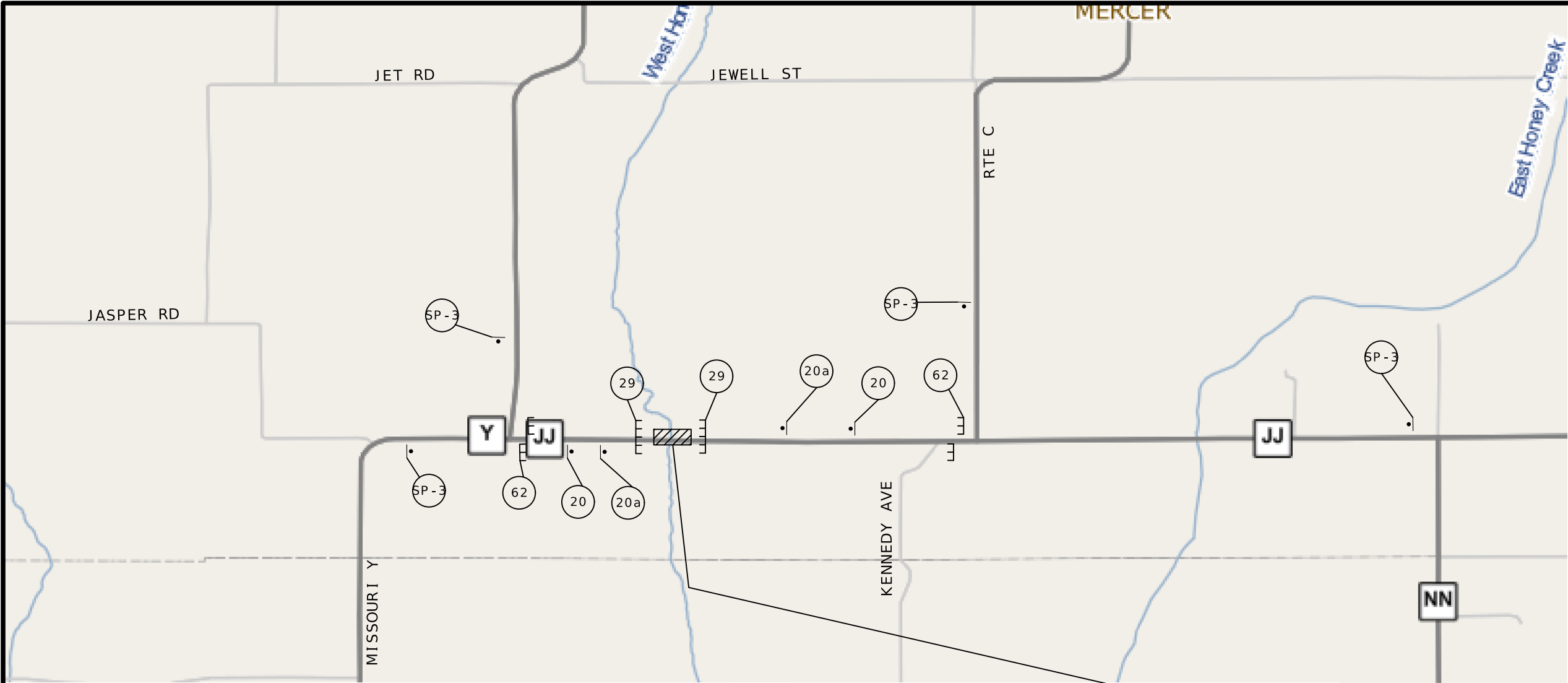
RTE FF

SHEET 1 OF 1

TRAFFIC CONTROL

RTE FF

SHEET 1 OF 1



ROAD CLOSED
TO
THRU TRAFFIC

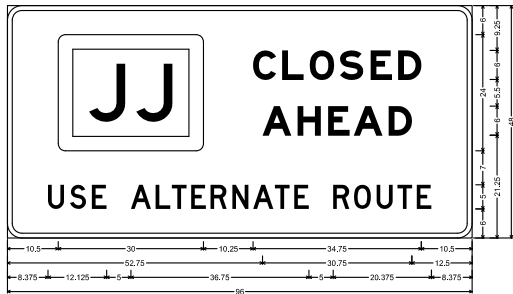
R11-4

62

ROAD
CLOSED

R11-2

29



MOH-19 SHIF-FLAT SHEET FLUORESCENT:
3.000" Radius, 1.000" Border, Black on Orange:
"CLOSED", "E" Mod "AHEAD", "E" Mod "USE ALTERNATE ROUTE", "D",
Table of letter and object heights

Letter	C	H	E	A	D	Object	D	S	E	D
10,500	50,750	50,750	50,750	50,750	50,750	50,750	50,750	50,750	50,750	50,750
52,750	50,750	50,750	50,750	50,750	50,750	50,750	50,750	50,750	50,750	50,750
4,375	12,875	17,500	25,800	30,625	34,000	38,000	42,000	46,500	50,750	55,250
8,750	17,625	25,250	30,625	34,000	38,000	42,000	46,500	50,750	55,250	59,250

SP-3



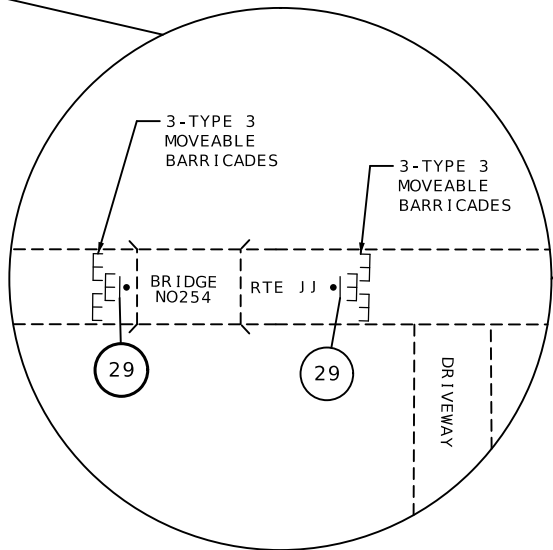
WO20-3

20



WO20-3

20a



DURING BRIDGE
NO254 CONSTRUCTION
AND PAVEMENT CONSTRUCTION

TRAFFIC CONTROL LEGEND

• SIGN (SINGLE SIDED)

WORK ZONE

BARRICADE

TRAFFIC CONTROL
RTE JJ
SHEET 1 OF 1



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
10/7/2025

ROUTE
E/FF/JJ/OC

STATE
MO

DISTRICT
NW

SHEET NO.
16

COUNTY
VAR.

JOB NO.
JNW0014

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

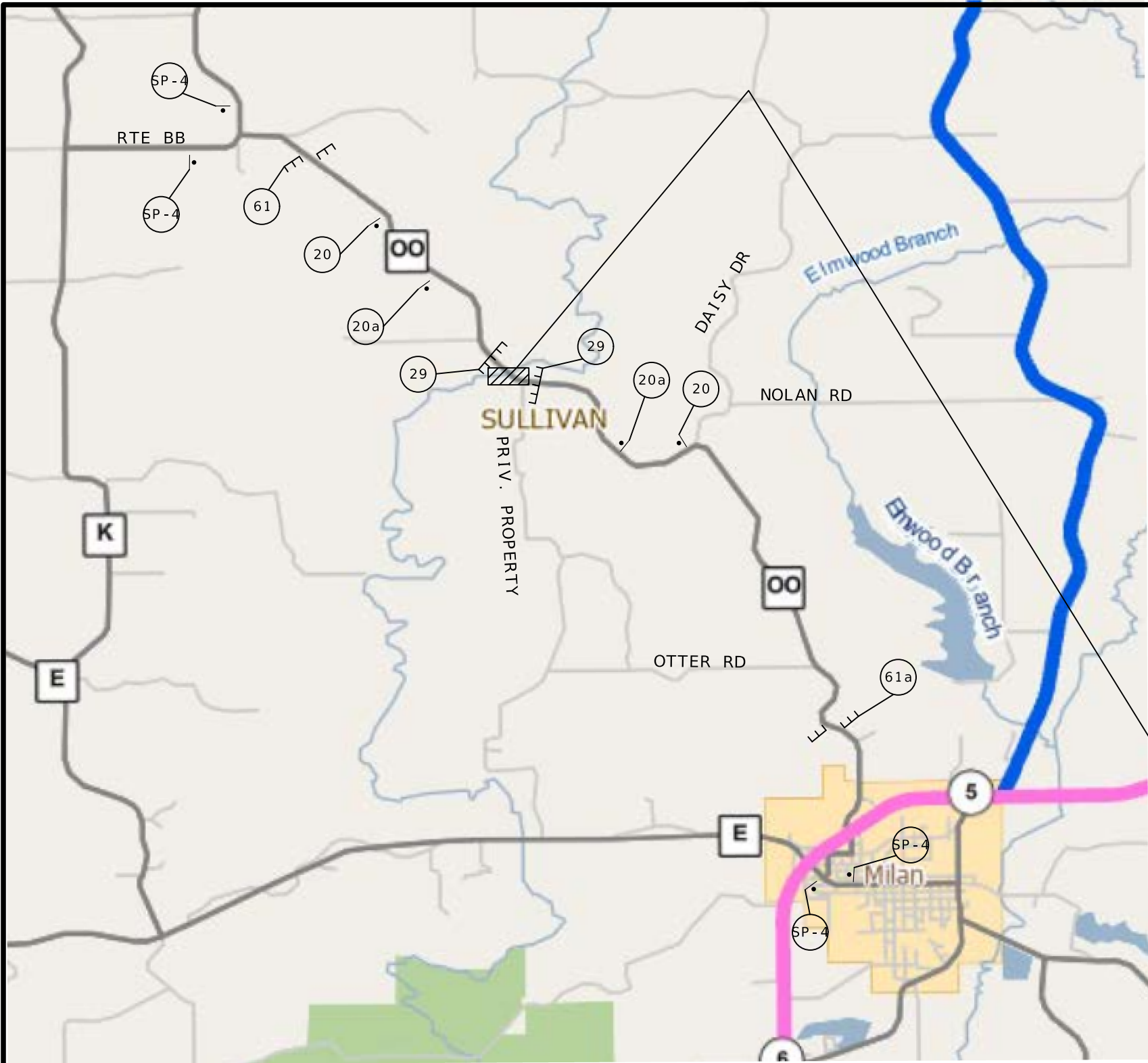
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MODOT

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

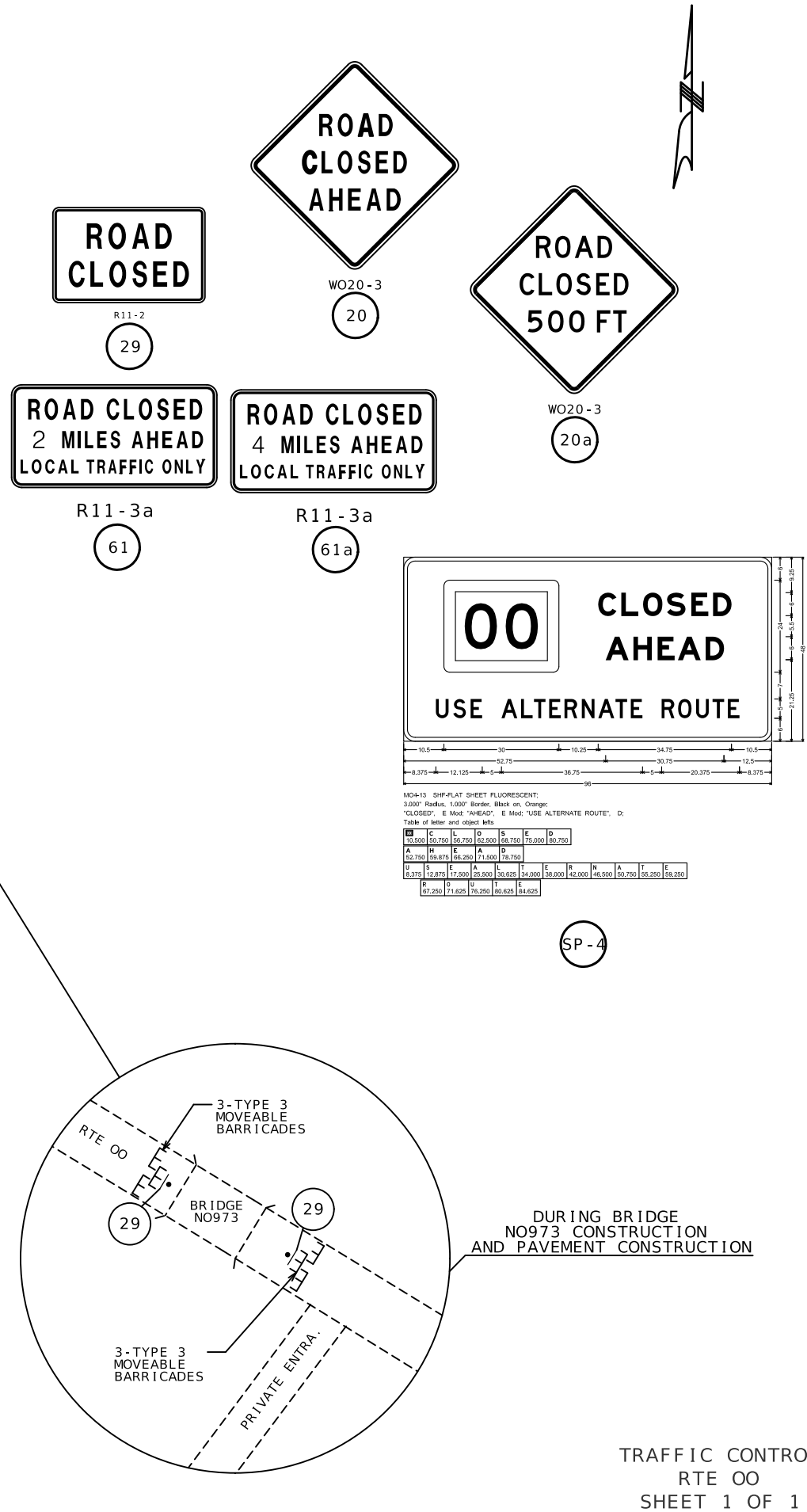
TRAFFIC CONTROL
RTE JJ
SHEET 1 OF 1

TRAFFIC CONTROL
RTE JJ
SHEET 1 OF 1



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- WORK ZONE
- BARRICADE



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
10/7/2025

ROUTE
E/FF/JJ/OO

STATE
MO

DISTRICT
NW

SHEET NO.
17

COUNTY
VAR.

JOB NO.
JNW0014

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102

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

MODOT

Garver, LLC.

7509 NW TIFFANY SPRINGS

PARKWAY, SUITE 200

KANSAS CITY, MO 64153

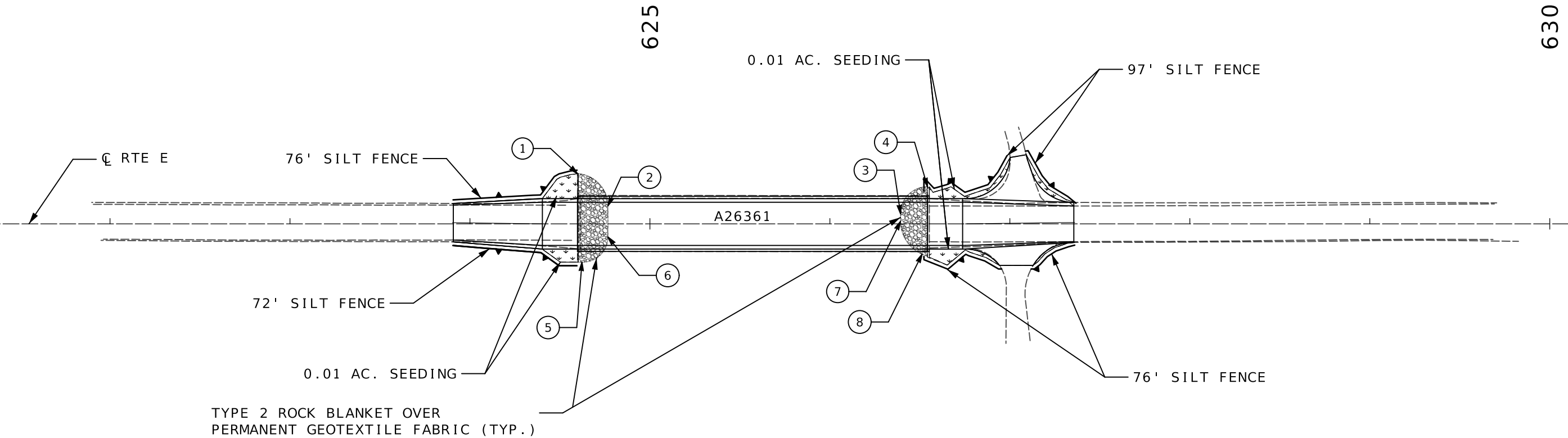
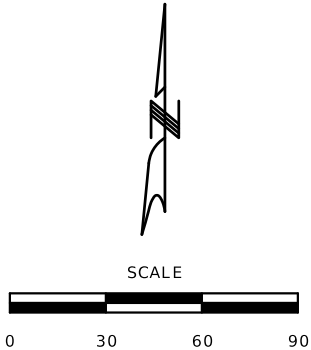
PHONE: (816) 298-6465

CERTIFICATE OF AUTHORITY


NO. 2008013090

Garver

ROCK BLANKET POINTS			
POINT	STATION	OFFSET (FT)	SIDE
1	624+59.75	27.93	LT.
2	624+76.65	9.98	LT.
3	626+39.23	5.64	LT.
4	626+54.25	20.64	LT.
5	624+62.65	21.31	RT.
6	624+76.65	7.31	RT.
7	626+39.23	1.38	LT.
8	626+51.24	16.84	RT.



TEMPORARY EROSION CONTROL LEGEND

 SILT FENCE

PERMANENT EROSION CONTROL LEGEND

 TYPE 2 ROCK BLANKET

 PERMANENT SEEDING AND MULCHING

EROSION CONTROL
RTE E
SHEET 1 OF 1



DATE PREPARED 10/7/2025	
ROUTE E/FF/111/00	STATE MO
DISTRICT NW	SHEET NO. 18
COUNTY VAR.	
JOB NO. JNW0014	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

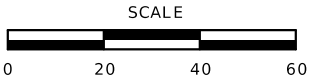


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090



ROCK BLANKET POINTS			
POINT	STATION	OFFSET (FT)	SIDE
1	56+05.13	19.41	LT.
2	56+20.13	4.41	LT.
3	57+16.51	10.72	LT.
4	57+23.18	18.12	LT.
5	56+05.13	21.93	RT.
6	56+20.13	6.93	RT.
7	57+09.93	11.18	RT.
8	57+15.26	23.85	RT.



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED 10/7/2025	
ROUTE E/FF/J/J/OO	STATE MO
DISTRICT NW	SHEET NO. 19
COUNTY VAR.	
JOB NO. JNW0014	
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)

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090



TYPE 2 ROCK BLANKET OVER
PERMANENT GEOTEXTILE FABRIC (TYP.)

0.02 AC. SEEDING

105' SILT FENCE

75' SILT FENCE

CL RTE FF

S01°39'10"E

P08332

88' SILT FENCE

118' SILT FENCE

0.04 AC. SEEDING

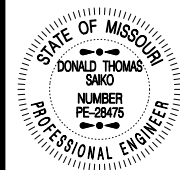
TEMPORARY EROSION CONTROL LEGEND

SILT FENCE

PERMANENT EROSION CONTROL LEGEND

TYPE 2 ROCK BLANKET

PERMANENT SEEDING AND MULCHING



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
10/7/2025

ROUTE STATE
E / FF / J J / OO MO

DISTRICT SHEET NO.
NW 22

COUNTY
VAR.

JOB NO.
JNW0014

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

BRIDGE NO.

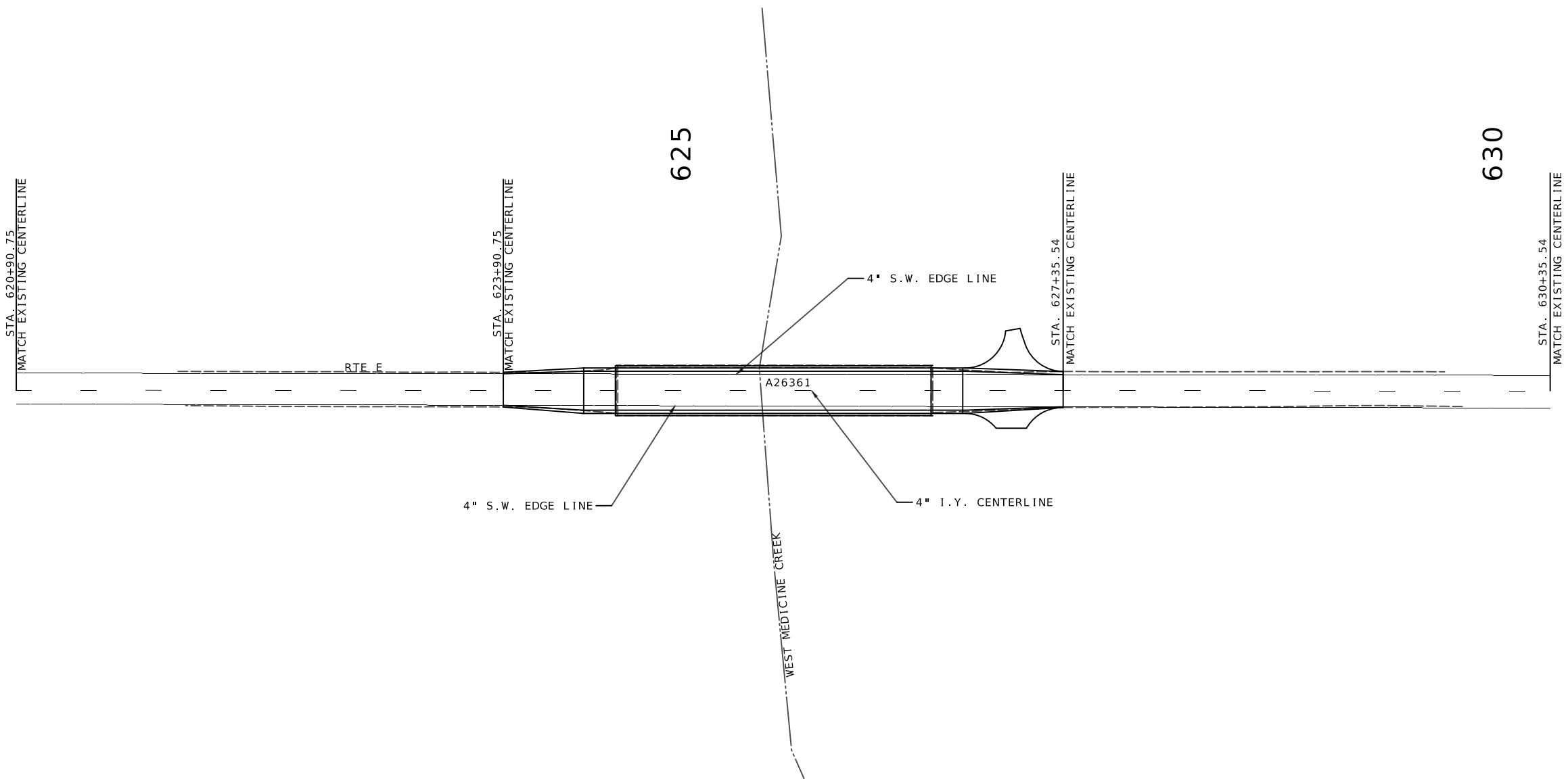
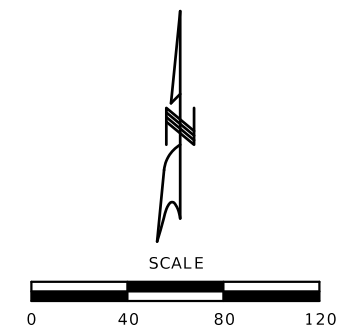
BRIDGE NO.

BRIDGE NO.

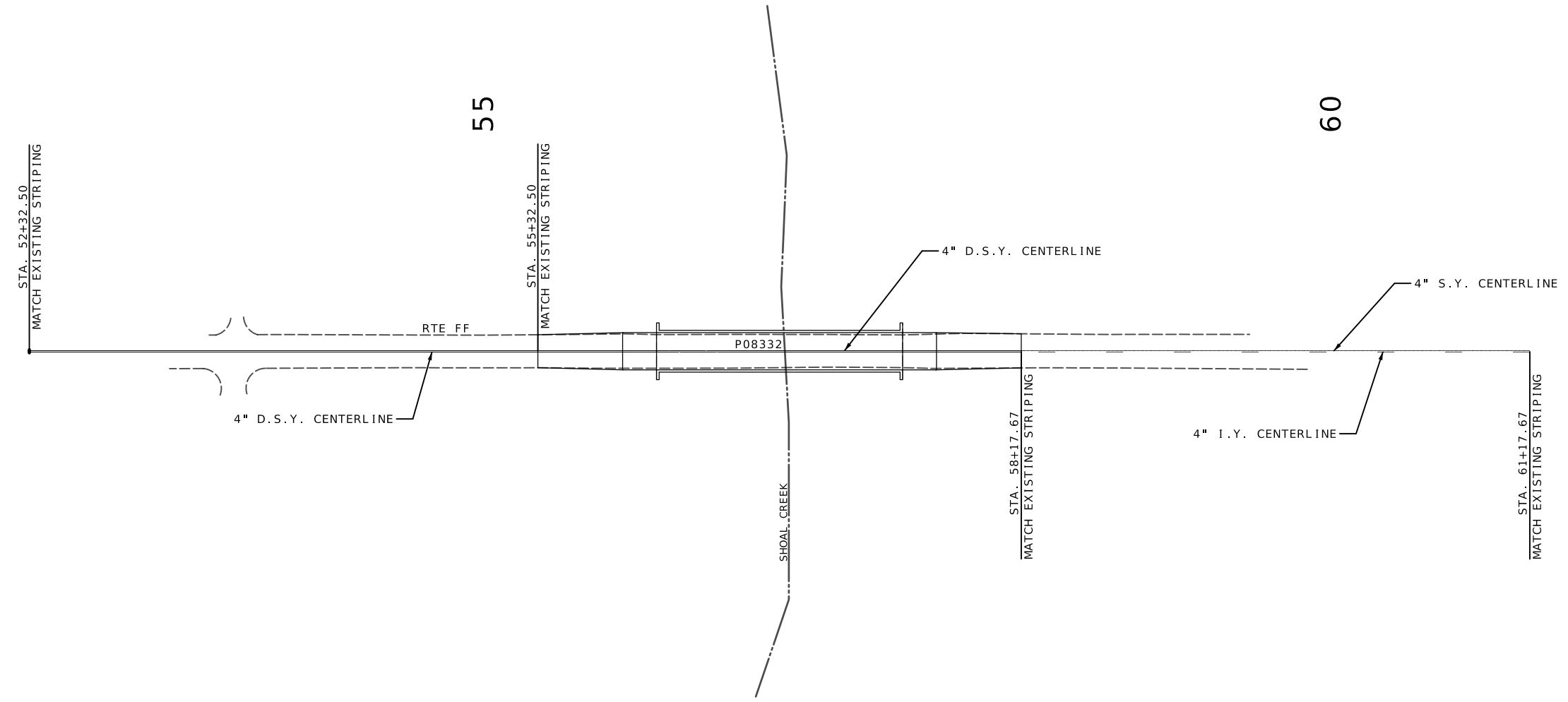
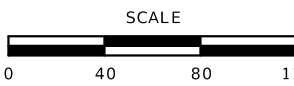
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090



PAVEMENT MARKING
RTE E
SHEET 1 OF 1



PAVEMENT MARKING
RTE FF
SHEET 1 OF 1



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
10/7/2025

ROUTE STATE
E/FF/J/J/OO MO

DISTRICT SHEET NO.
NW 23

COUNTY
VAR.

JOB NO.
JNW0014

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

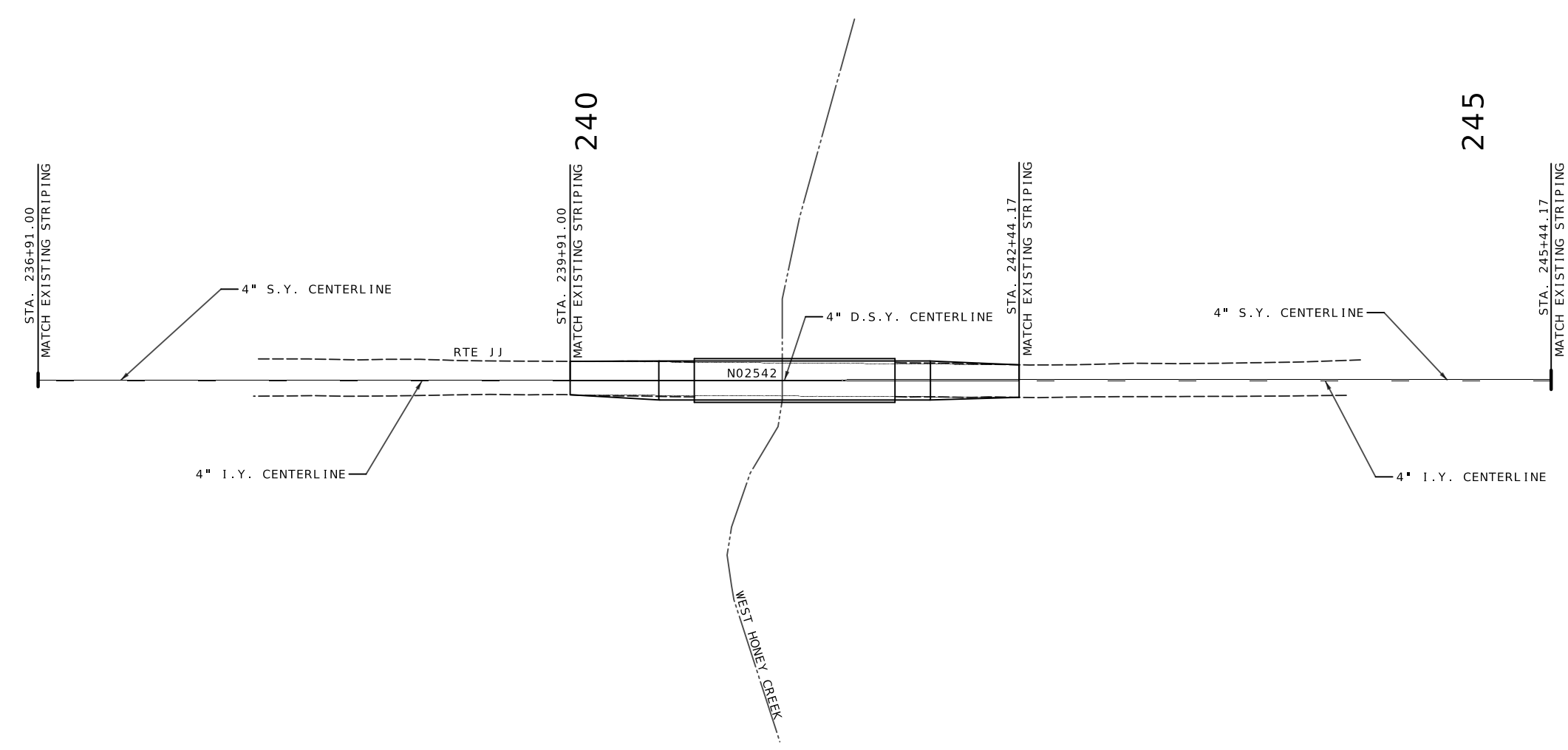
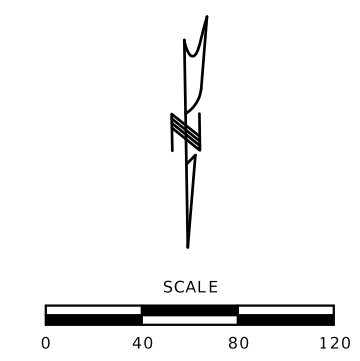
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090





PAVEMENT MARKING
RTE JJ
SHEET 1 OF 1



DATE PREPARED 10/7/2025	
ROUTE E/FF/JJ/00	STATE MO
DISTRICT NW	SHEET NO. 24
COUNTY VAR.	
JOB NO. JNW0014	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

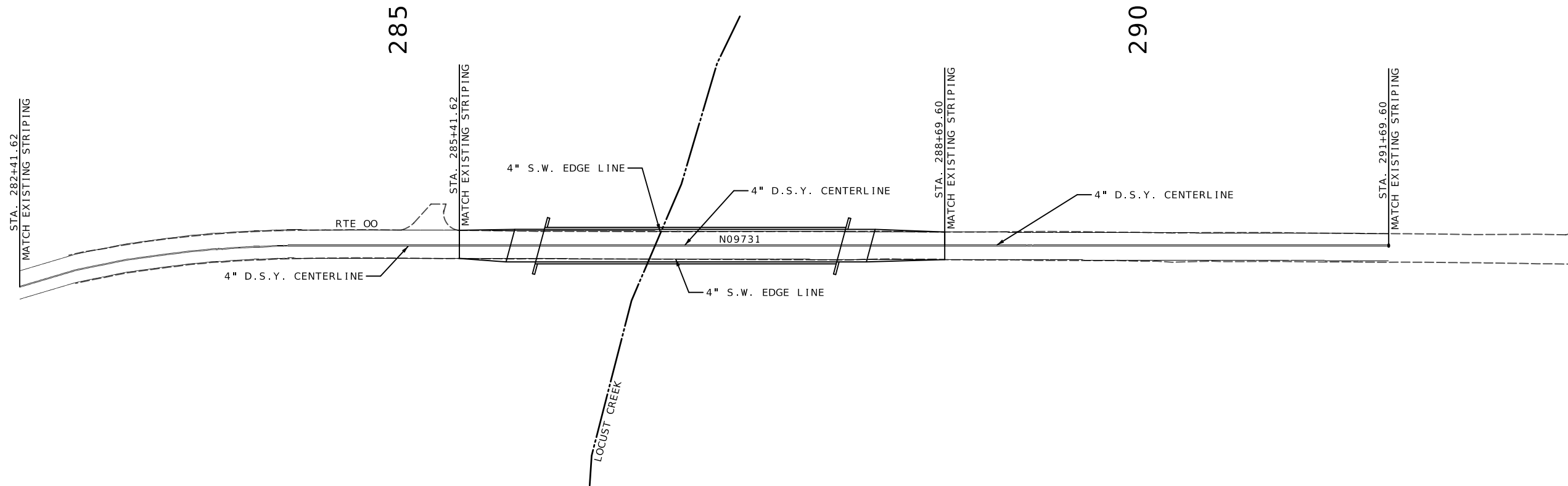
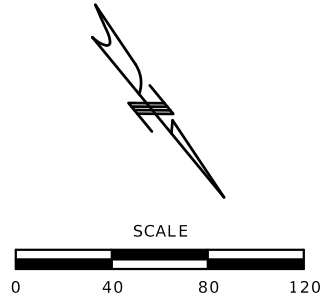
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090





PAVEMENT MARKING
RTE 00
SHEET 1 OF 1

STATE OF MISSOURI

DONALD THOMAS SAKO

NUMBER PE-28475

PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
10/7/2025

ROUTE
E / FF / J / J / OO

DISTRICT
NW

STATE
MO

SHEET NO.
25

COUNTY
VAR.

JOB NO.
JNW0014


CONTRACT ID.

PROJECT NO.

BRIDGE NO.


DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090



General Notes:

Stay-In-Place Forms:

Corrugated steel forms, supports, closure elements and accessories shall be in accordance with grade requirement and coating designation G165 of ASTM A653. Complete shop drawings of the permanent steel deck forms shall be required in accordance with Sec 1080.

Corrugations of stay-in-place forms shall be filled with an expanded polystyrene material. The polystyrene material shall be placed in the forms with an adhesive in accordance with the manufacturer's recommendations.

Form sheets shall not rest directly on the top of beam flanges. Sheets shall be securely fastened to form supports with a minimum bearing length of one inch on each end. Form supports shall be placed in direct contact with the flange. Welding on or drilling holes in the beam flanges will not be permitted. All steel fabrication and construction shall be in accordance with Sec 1080 and 712. Certified field welders will not be required for welding of the form supports.

The design of stay-in-place corrugated steel forms is per manufacturer which shall be in accordance with Sec 703 for false work and forms. Maximum actual weight of corrugated steel forms allowed shall be 4 psf assumed for beam loading.

Removal of Existing Deck and Pouring and Finishing Slab:

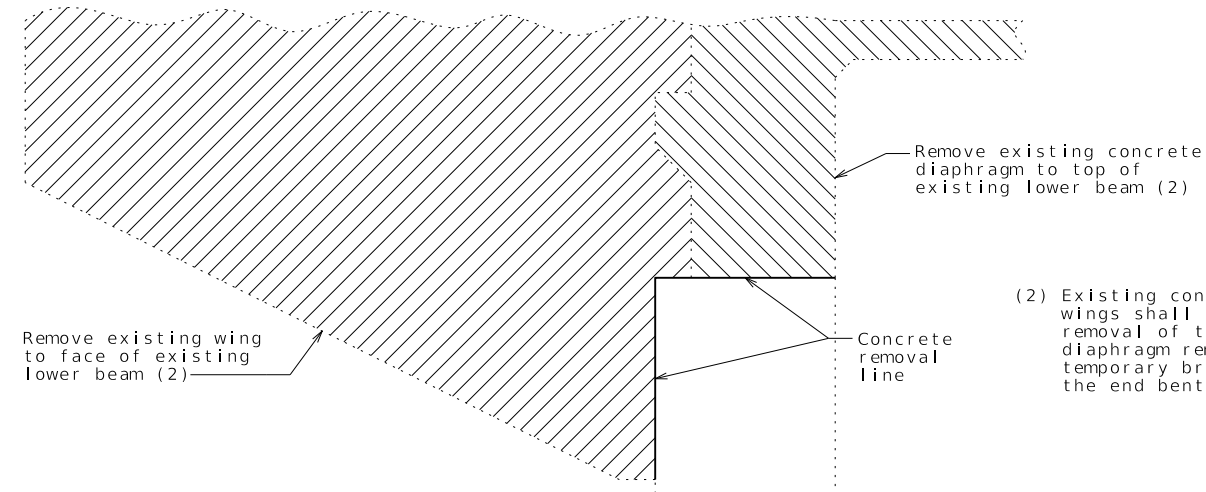
The contractor shall provide bracing necessary for lateral and torsional stability of the beams prior to removal of the existing concrete diaphragms and during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not weld on or drill holes in the beams. The cost for furnishing, installing, and removing bracing will be considered completely covered by the contract unit price for Slab on Steel.

Slab shall be poured upgrade from end to end at a minimum rate of 25 cubic yards per hour.

Alternate pour sequences may be submitted to the engineer for approval. Keyed construction joints shall be provided between pours.

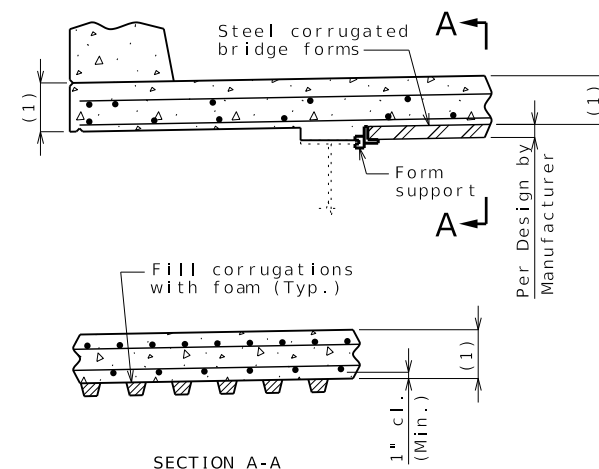
Haunching:

(1) Slab is to be considered a uniform thickness as shown on the plans. Haunching will vary. See front sheet for slab thickness.

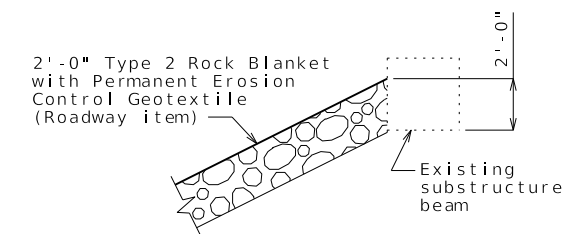


ELEVATION OF END BENTS
SHOWING CONCRETE REMOVAL

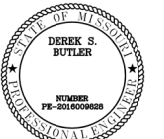
The cost of concrete removal as shown will be considered completely covered by the contract unit price for Removal of Existing Bridge Deck.



OPTIONAL STAY-IN-PLACE FORM DETAILS



ROCK BLANKET ON SPILL SLOPES



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY

DATE PREPARED

10/6/2025

ROUTE	STATE
-------	-------

E	MO
---	----

DISTRICT	SHEET NO
55	3

BR	2
----	---

COUNTY

MERCER

JOB NO.

JNW0014

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

A26361

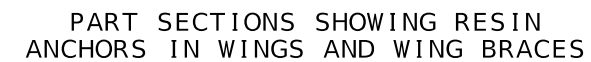
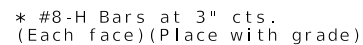
[illegible]

COMMISSION



GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090





(1) Cost of field drilling holes in existing wide flange beam webs will be considered completely covered by the contract unit price for Slab on Steel.

Notes:

Work this sheet with Sheet No. 3.

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

Cost of furnishing and installing the resin anchor systems, complete in place, will be considered completely covered by the contract unit price for Slab on Steel.

The minimum embedment depth in concrete with $f'_c = 4,000$ psi for the resin anchor systems shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5 inches.

An epoxy coated #6 Grade 60 reinforcing bar shall be substituted for the 3/4"Ø threaded rod for Resin Anchor Systems A and B.



*** Bend in field to maintain 2" Cl. min.

*** Bend in field to maintain 2" Cl. min.

DETAIL OF RESIN ANCHOR SYSTEMS



DATE PREPARED

10/6/2025

ROUTE	STATE
-------	-------

E	MO
---	----

DISTRICT	SHEET NO.
----------	-----------

3R	4
----	---

COUNTY

MERCER

JOB NO.

JNW0014

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

A26361

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

COMMISSION

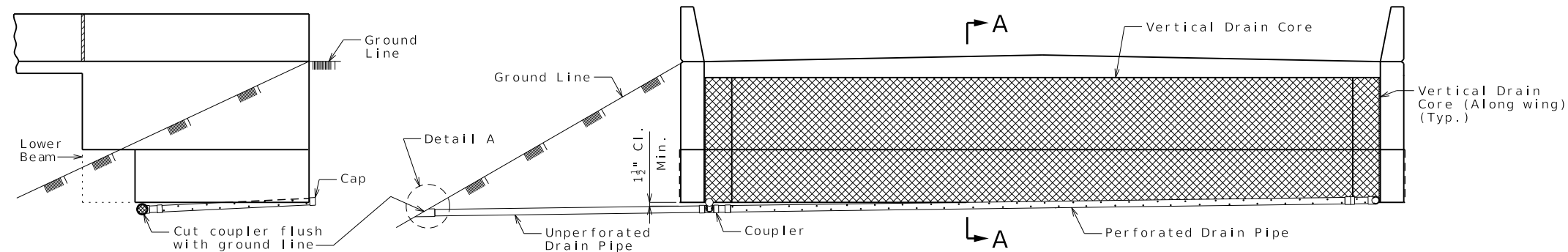
DOT

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

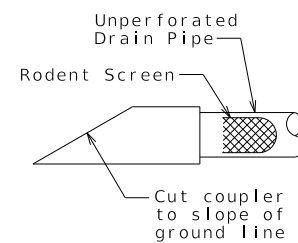
GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090



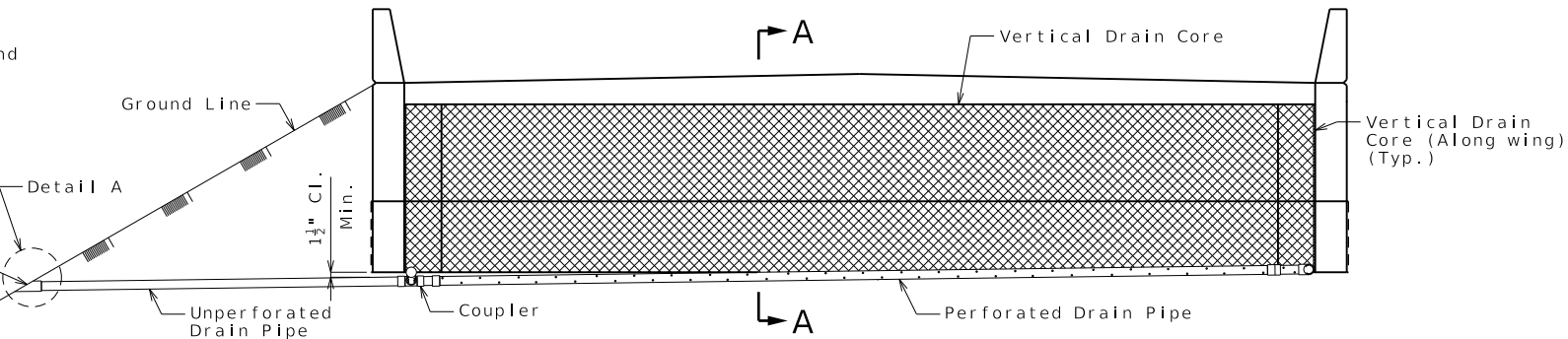
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



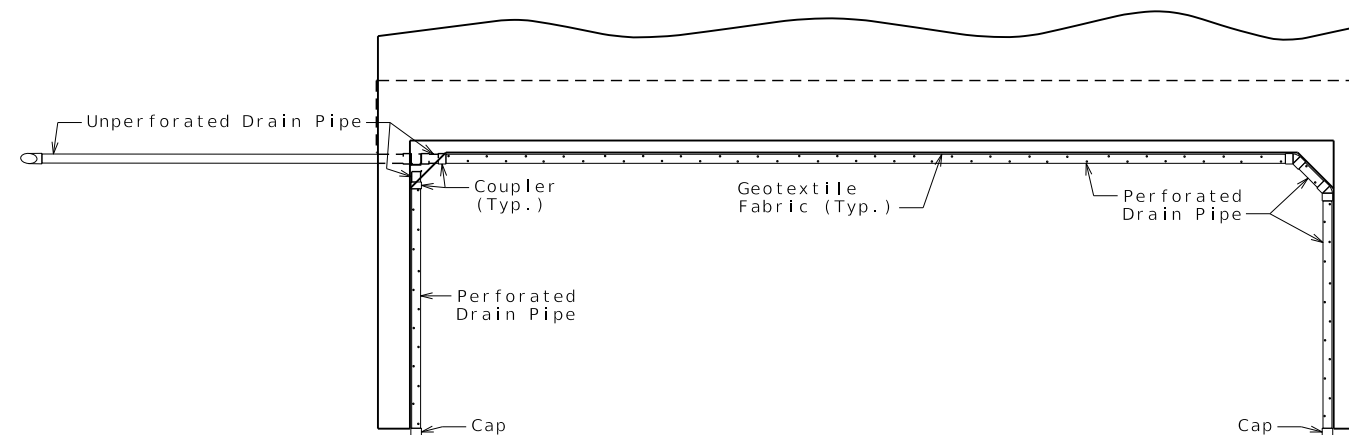
ELEVATION OF WING



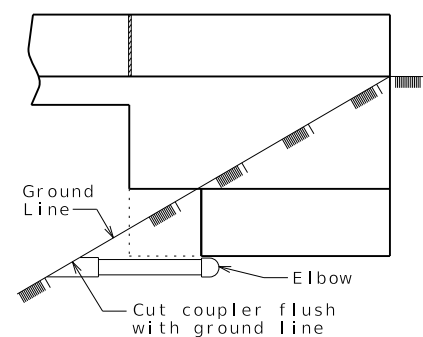
DETAIL A



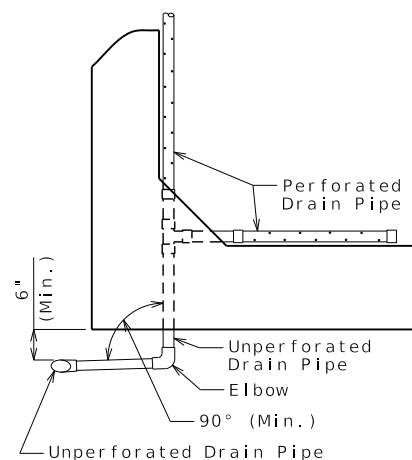
ELEVATION OF END BENT



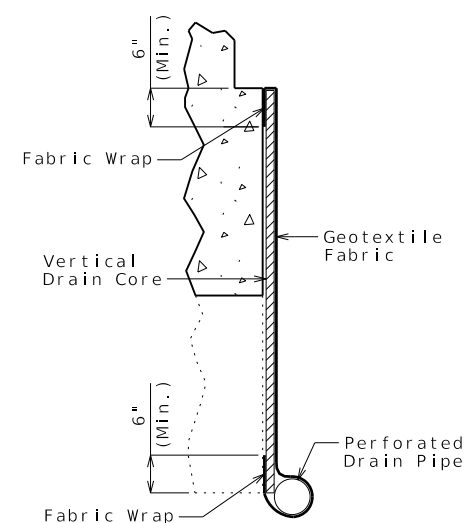
PLAN OF END BENT



ELEVATION OF WING



PART PLAN



PART SECTION A-A

VERTICAL DRAIN AT END BENTS

OPTIONAL TURNED DRAIN
(Use only when straight drain is not practical.)

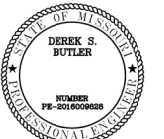
General Notes:

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.



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY

DATE PREPARED

0 / 6 / 2025

TE	STAT
1	10

	MC
--	----

SHEET
5

7	5
COUNTY	

MERCER

JOB NO.

JNW0014

CONTRACT ID.

PROJECT NO.

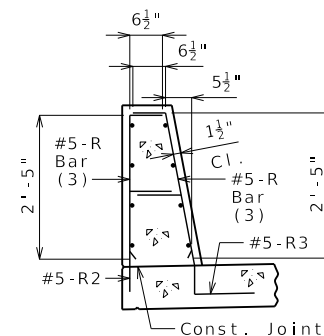
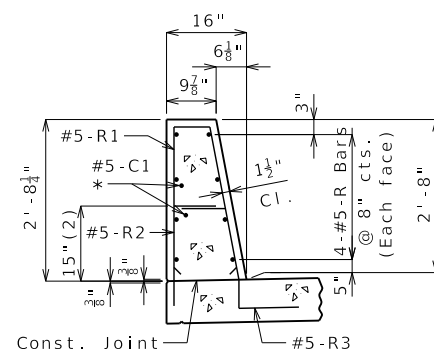
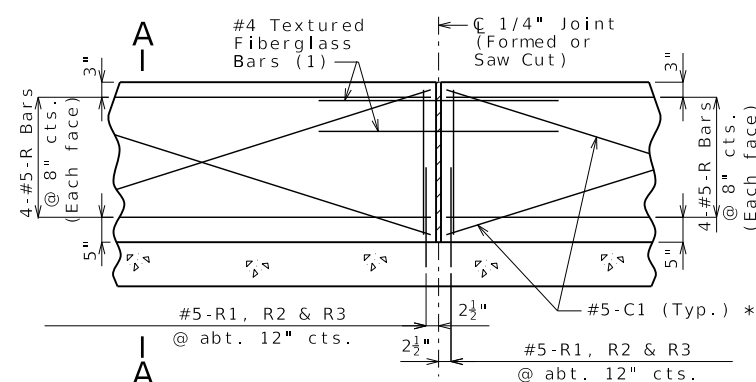
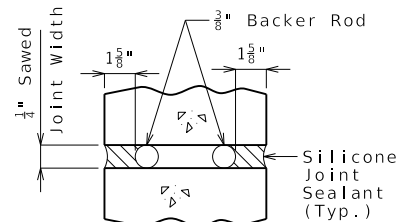
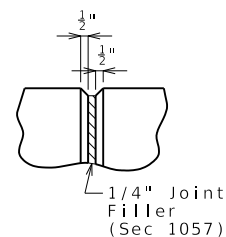
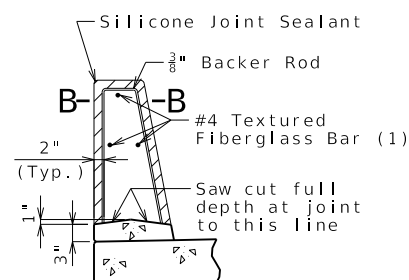
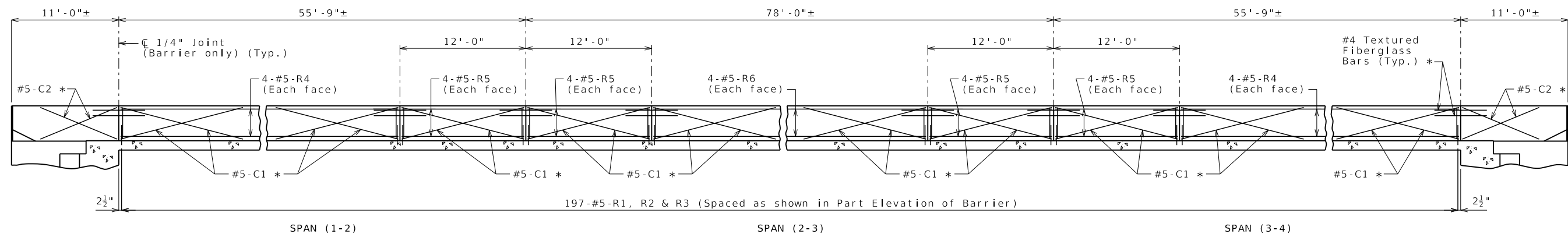
Source: *U.S. Census Bureau, Current Population Reports, 1990*

BRIDGE NO.
A26361[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090





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 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 H 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 slab to end of slab.

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 H 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.



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY

DATE PREPARED

10/6/2025

ROUTE	STATE
-------	-------

E	MO
---	----

TRICT	SHEET NO
DD	7

3R	/
----	---

COUNTY
MERCED

MERCER

JOB NO.

JOB NO.
INW0014

CONTRACT ID.

.....

PROJECT NO.

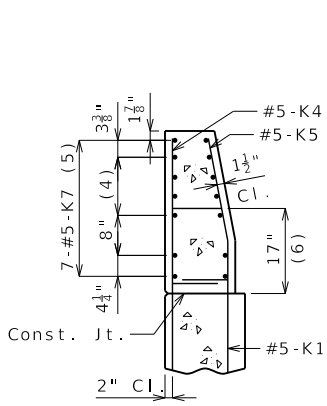
BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

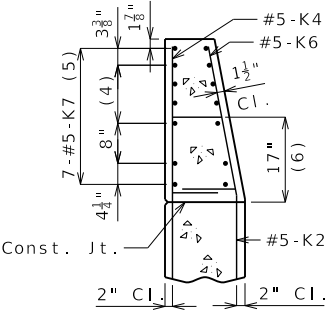
GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090



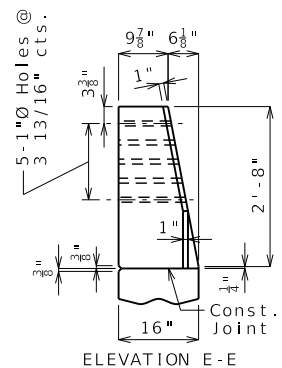
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



SECTION A-A

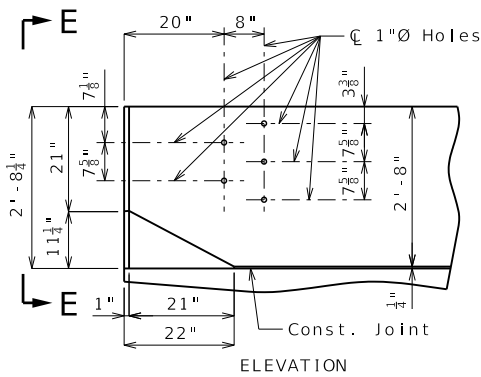


SECTION B-B

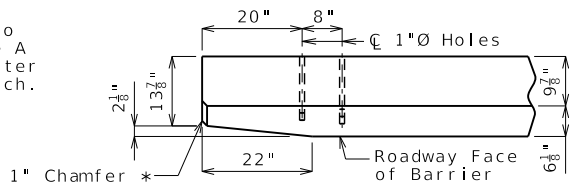


ELEVATION E-E

* Transition to zero at Type A curb for gutter lines to match.

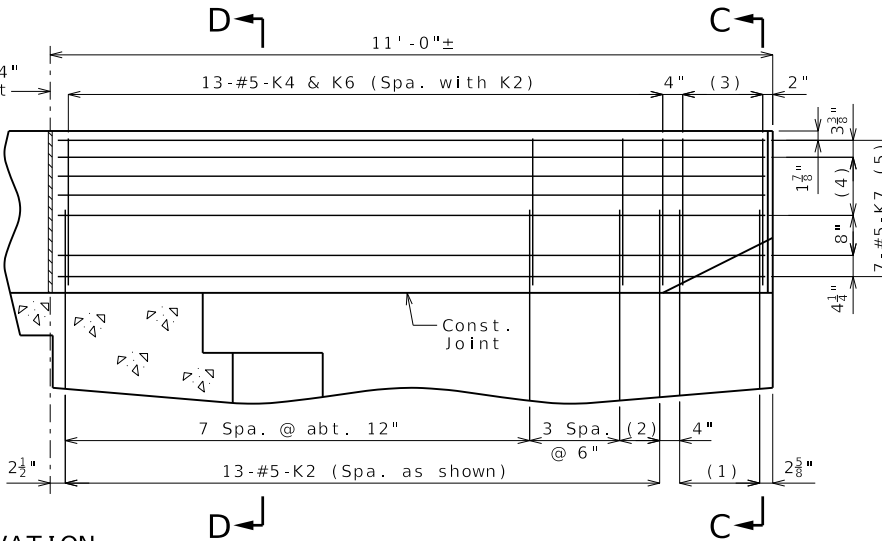
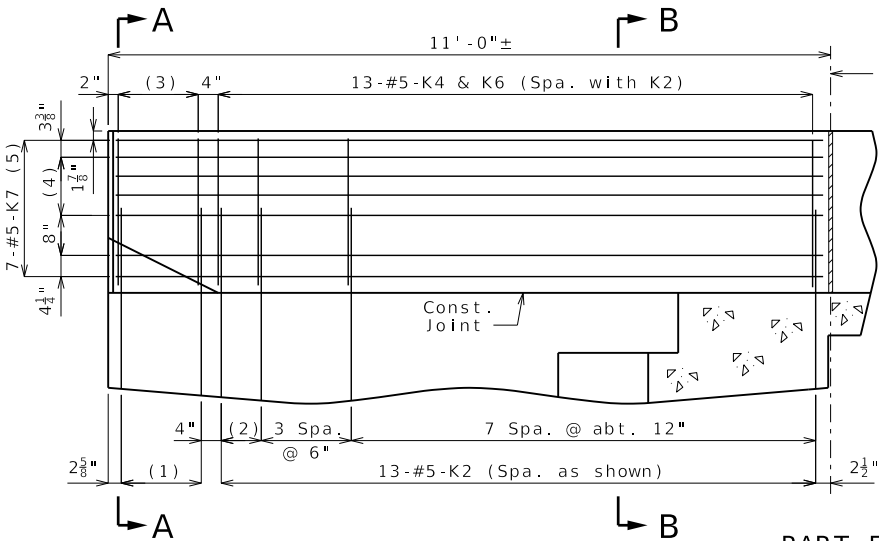


ELEVATION

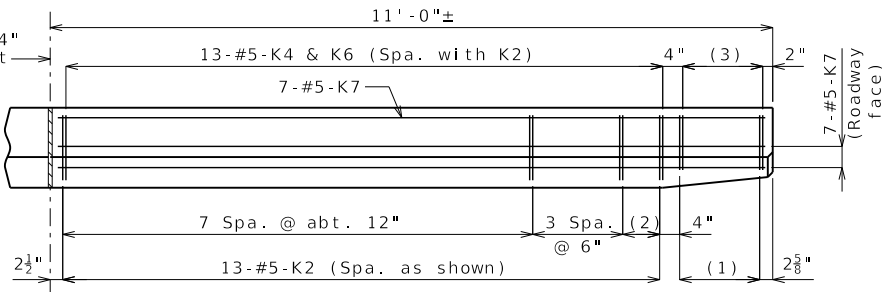
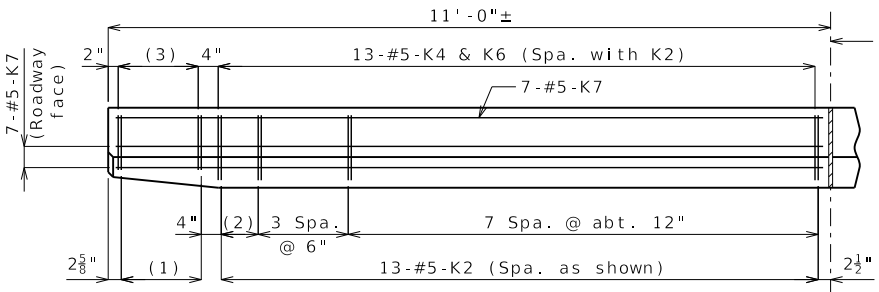


PLAN

DETAILS OF GUARD RAIL ATTACHMENT

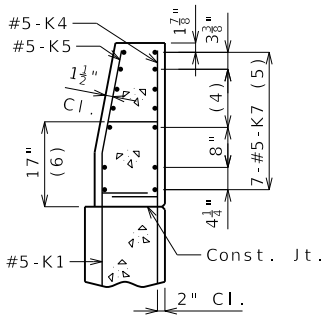


PART ELEVATION

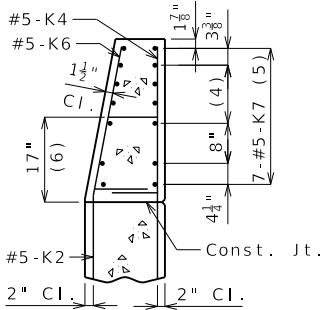


PART PLAN

- (1) 5-#5-K1 @ 4" cts. (3) 5-#5-K4 and 5-#5-K5, spaced with K1 (5) Spaced as shown, each face
(2) 2 Spaces @ 4" (4) 3 Spaces @ 3 13/16" (6) To top of bar



SECTION C-C



SECTION D-D

General Notes:

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 H Barrier.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2".

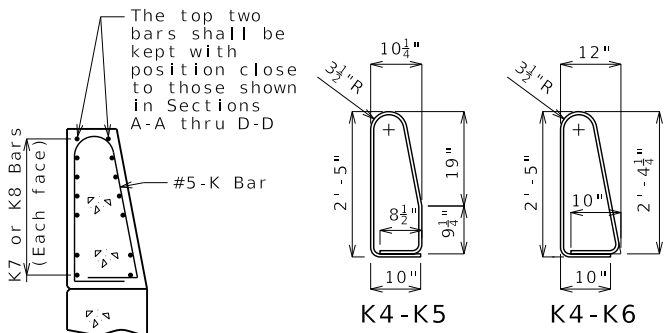
Use a minimum lap of 2'-6" between K7 bars and R bars.

TYPE H BARRIER AT END BENTS

(Left barrier shown, right barrier similar)

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

Sheet No. 8 of 11

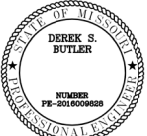


PERMISSIBLE ALTERNATE SHAPES

(Other K bars not shown for clarity)

The K4-K5 and K4-K6 bar combination may be furnished as one bar as shown, at the contractor's option.

All dimensions are out to out.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED

10/6/2025

ROUTE STATE

E MO

DISTRICT SHEET NO.

BR 8

COUNTY

MERCER

JOB NO.

JNW0014

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

A26361

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

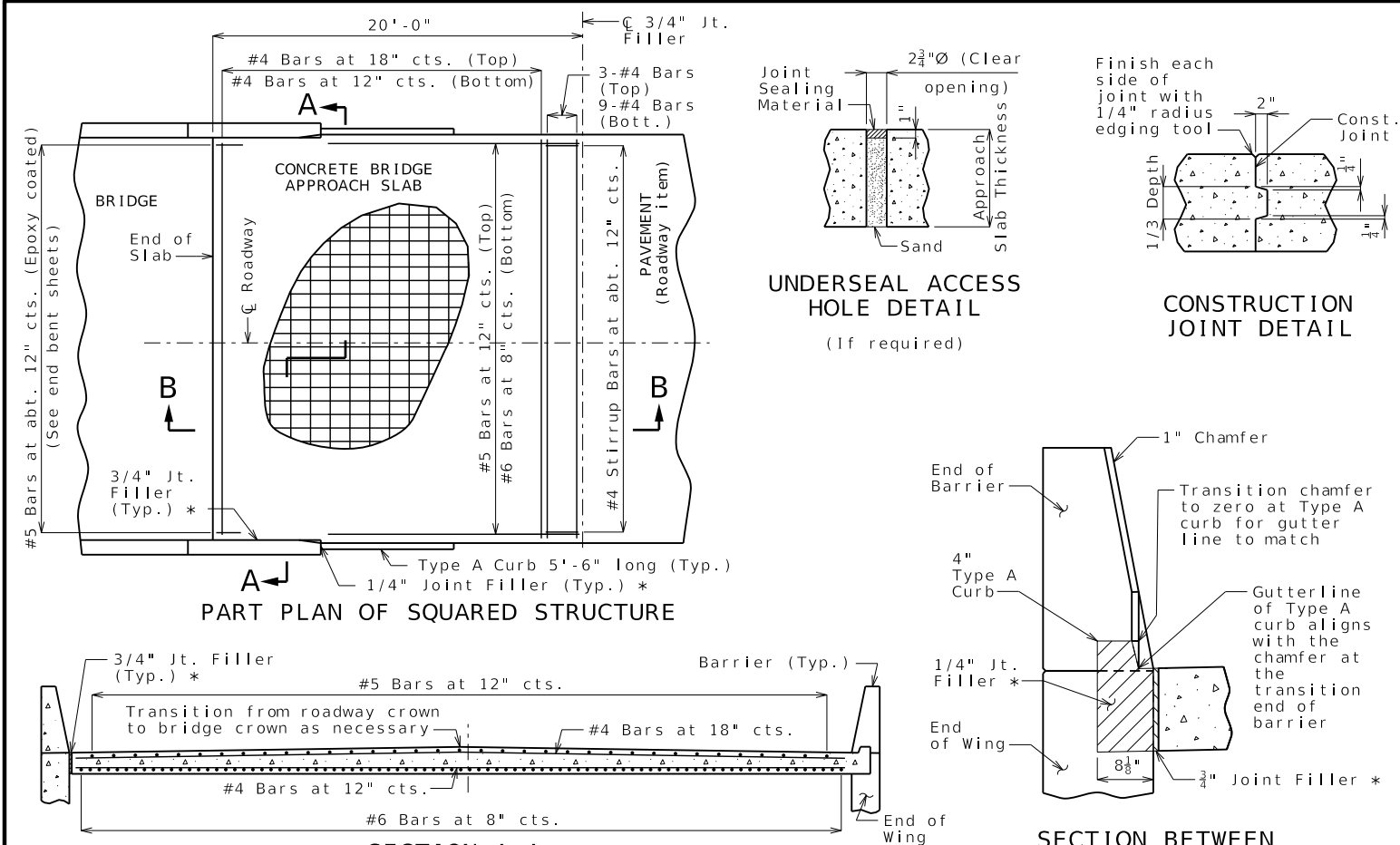
1-888-ASK-MODOT (1-888-275-6636)

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

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

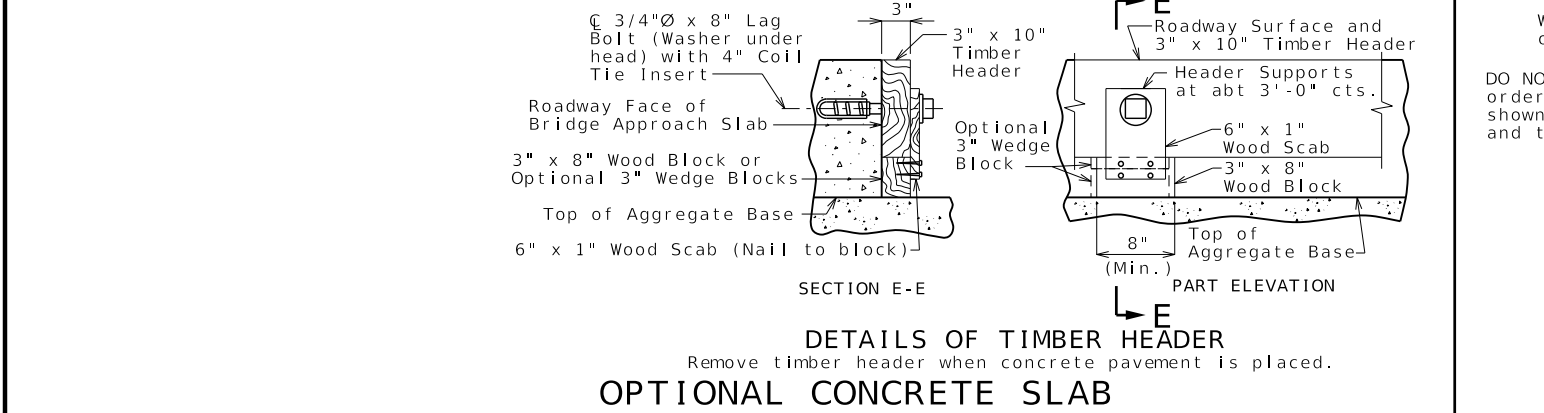
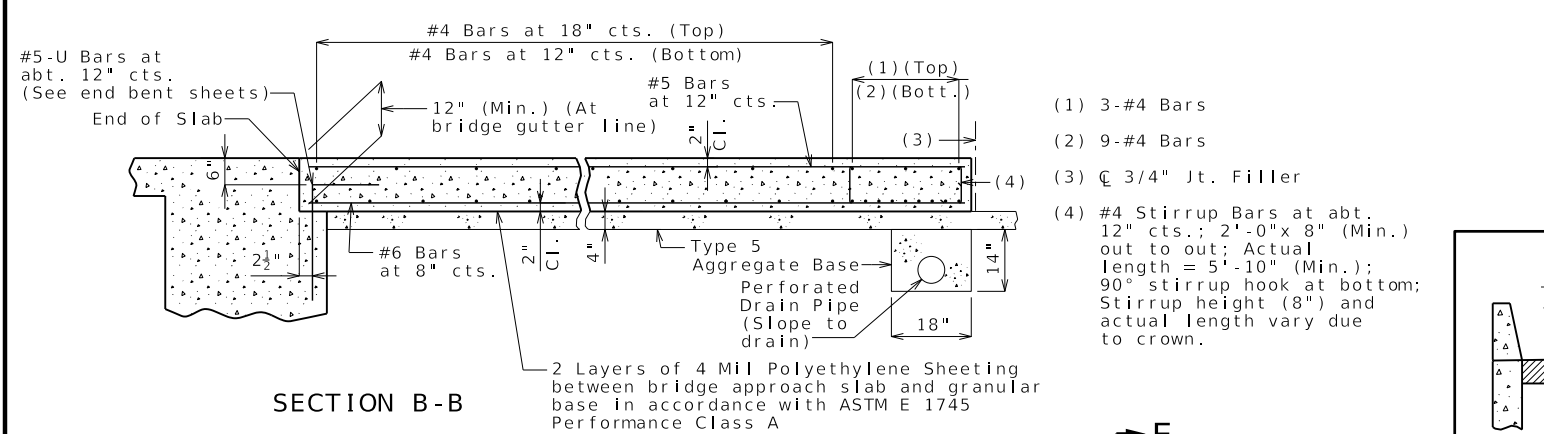
1-888-ASK-MODOT (1-888-275-6636)

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



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.



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 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.

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.

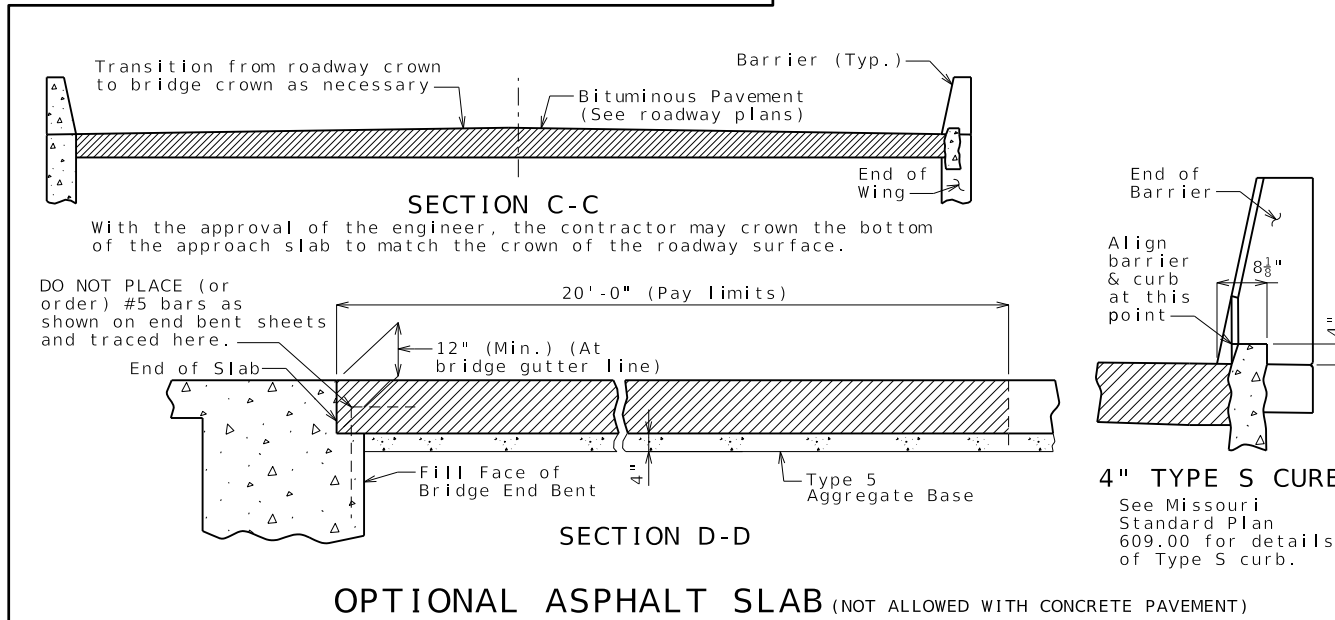
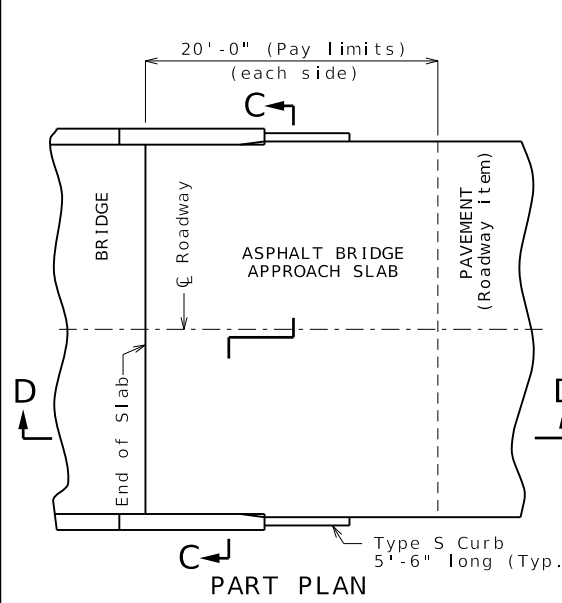
MoDOT Construction personnel will indicate the bridge approach slab used for this structure:

- ☐ Concrete Bridge Approach Slab
- ☐ Asphalt Bridge Approach Slab

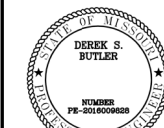
Notes For Asphalt Slab Only:

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.



BRIDGE APPROACH SLAB (MINOR)



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED

10/6/2025

ROUTE

E

MO

DISTRICT

BR

SHEET NO.

9

COUNTY

MERCER

JOB NO.

JNW0014

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

A26361

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

GARVER, LLC

7509 NW TIFFANY SPRINGS

PARKWAY, SUITE 200

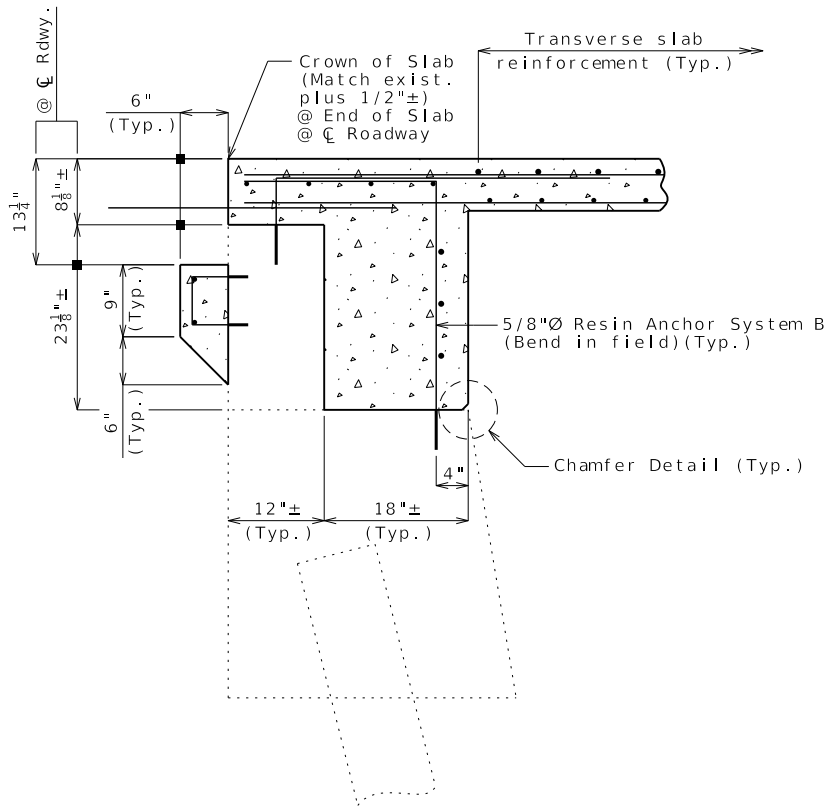
KANSAS CITY, MO 64153

PHONE: (816) 298-6465

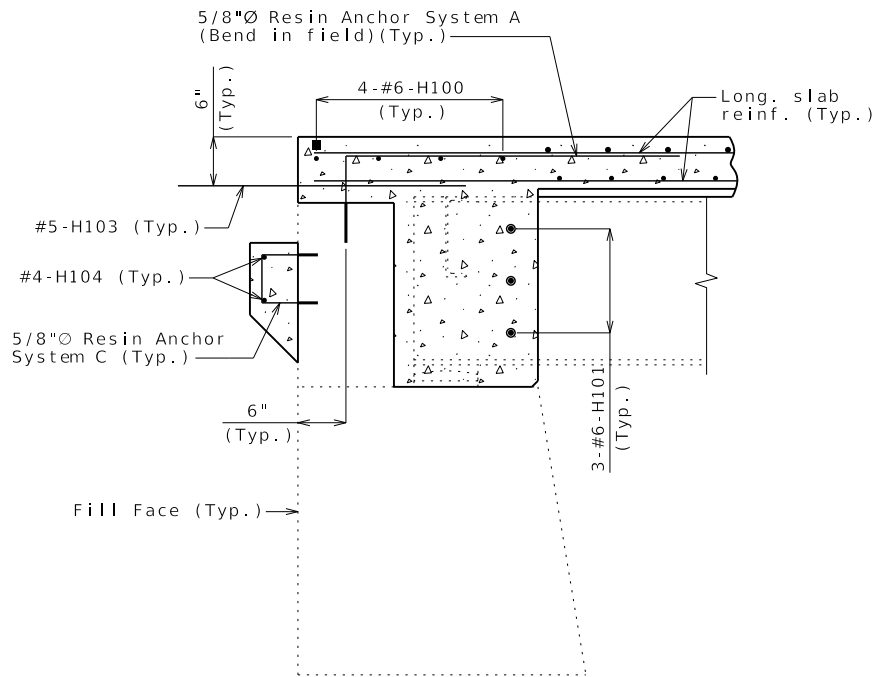
CERTIFICATE OF AUTHORITY

NO. 2008013090

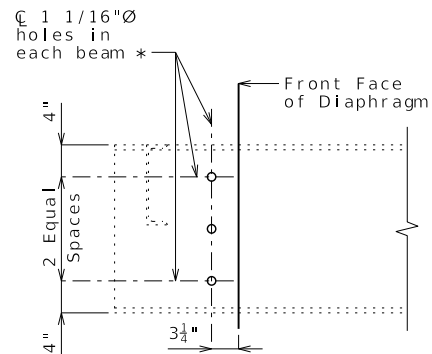
GARVER



SECTION A-A

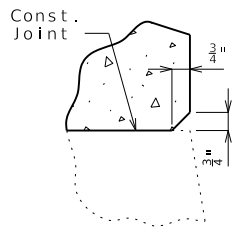


SECTION B-B

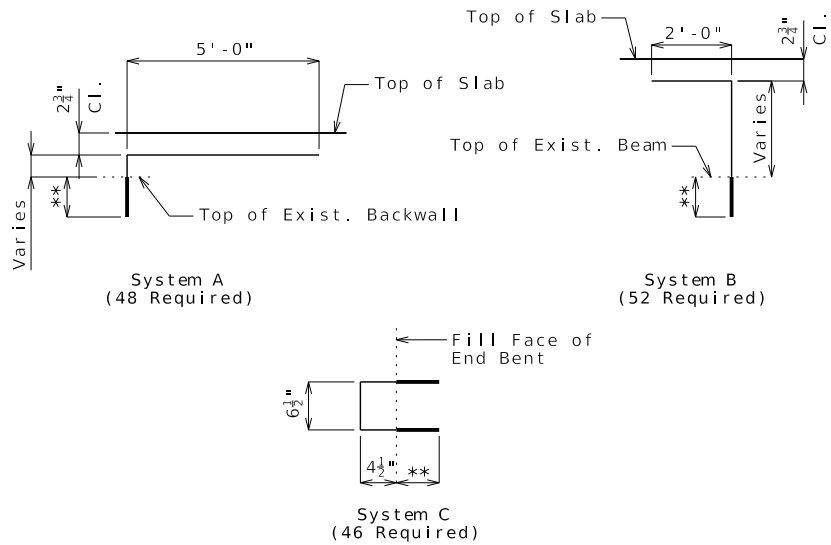


DETAIL OF WEB HOLES AT END BENTS

* Cost of field drilling holes in existing wide flange beam webs will be considered completely covered by the contract unit price for Slab on Steel.



CHAMFER DETAIL



DETAILS OF RESIN ANCHOR SYSTEMS

** Manufacturer's recommended embedment length (5" min.)

Notes:

Work this sheet with Sheet No. 3.

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

Cost of furnishing and installing the resin anchor systems, complete in place, will be considered completely covered by the contract unit price for Slab on Steel.

The minimum embedment depth in concrete with f'c = 4,000 psi for the resin anchor systems shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5 inches.

An epoxy coated #5 Grade 60 reinforcing bar shall be substituted for the 5/8"Ø threaded rod for Resin Anchor Systems A, B & C.

END BENTS NO. 1 & 4

Detailed Jul. 2025
Checked Aug. 2025

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

Sheet No. 4 of 11



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
10/6/2025

ROUTE
J J

STATE
MO

DISTRICT
BR

SHEET NO.
4

COUNTY
MERCER

JOB NO.
JNW0014

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
N02542

DESCRIPTION

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

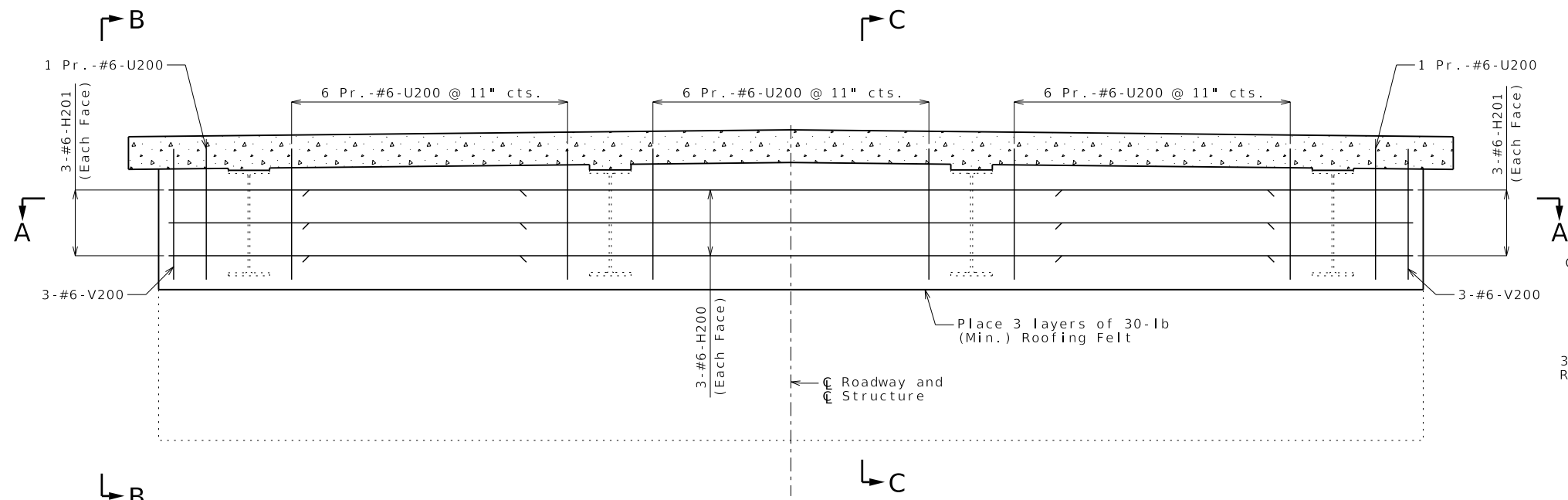
DATE

DATE

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

GARVER, LLC
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

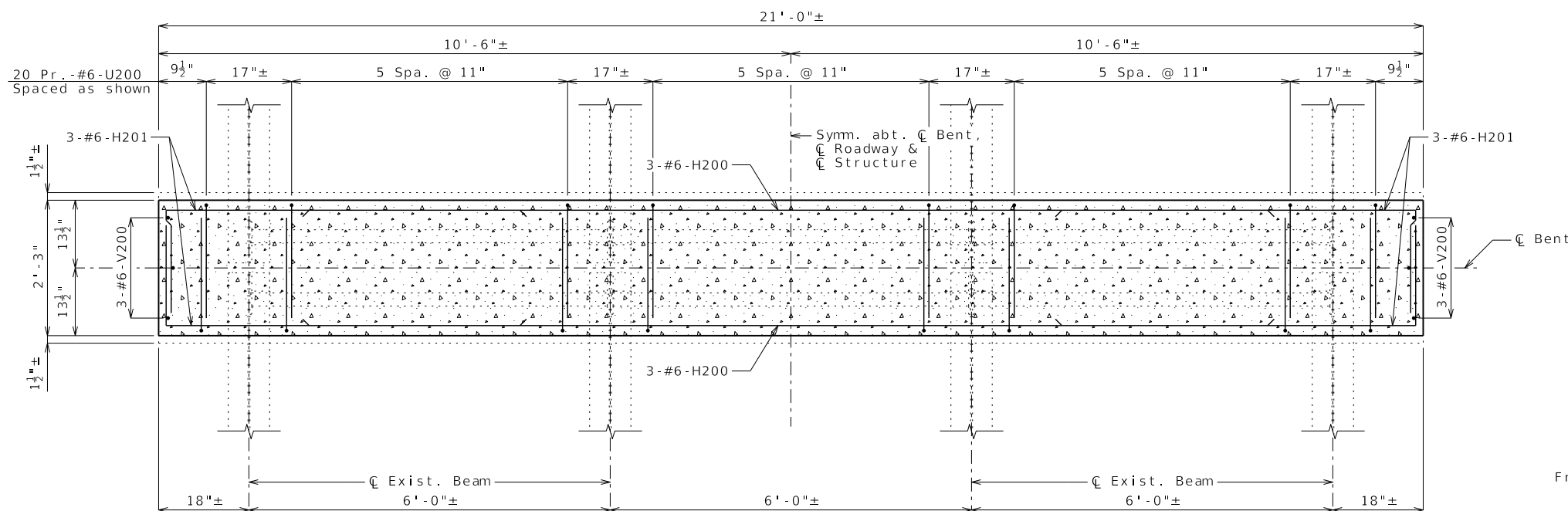




PART SECTION NEAR INTERMEDIATE BENT

Existing steel end diaphragms not shown for clarity (leave in place).

Type H Barrier and slab reinforcement not shown for clarity.



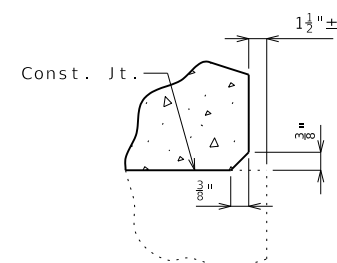
SECTION A-A

Notes:

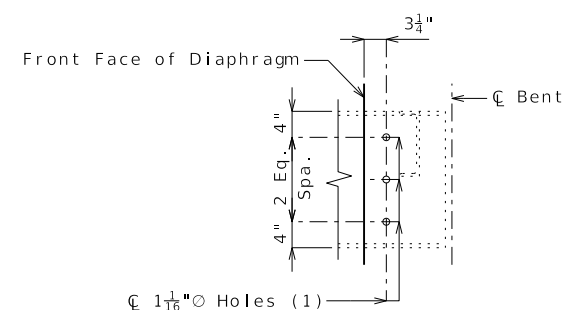
The exposed and accessible surfaces of the existing structural steel and bearings that will be encased in concrete shall be cleaned with a minimum of SSPC-SP-3 surface preparation and coated with a minimum of one coat of gray epoxy-mastic primer (non-aluminum) in accordance with Sec 1081 to produce a dry film thickness of not less than 3 mils before concrete is poured. The surface preparation and coating for beams shall extend a minimum of one foot outside the face of the beam encasement. Payment for cleaning and coating steel to be encased in concrete will be considered completely covered by the contract unit price for Slab on Steel.

All concrete and reinforcement in the intermediate bent diaphragms, complete in place, will be considered completely covered by the contract unit price for Slab on Steel and is included in the table of Estimated Quantities for Slab on Steel.

Cut existing anchor bolts flush with top of beam cap. Place 3 layers of 30-lb (Min.) roofing felt beneath existing bearings.

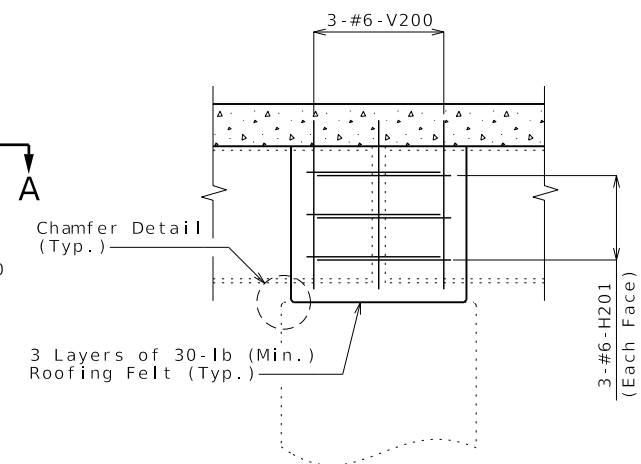


CHAMFER DETAIL

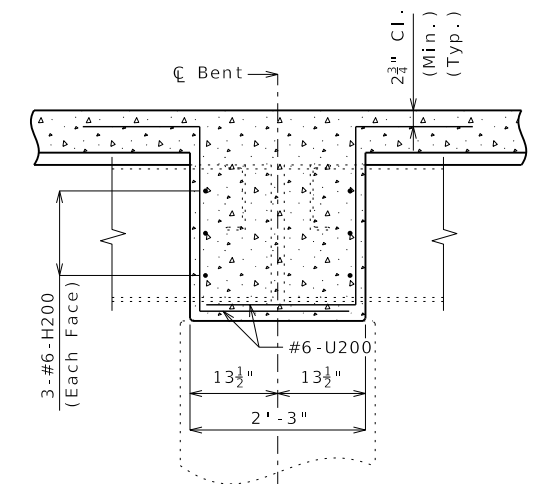


DETAIL OF WEB HOLES AT INT. BENTS

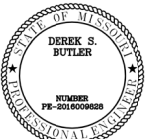
(1) Cost of field drilling holes in existing wide flange beam webs will be considered completely covered by the contract unit price for Slab on Steel.



ELEVATION B-B



SECTION C-C



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 10/6/2025

ROUTE JJ STATE MO

DISTRICT BR SHEET NO. 5

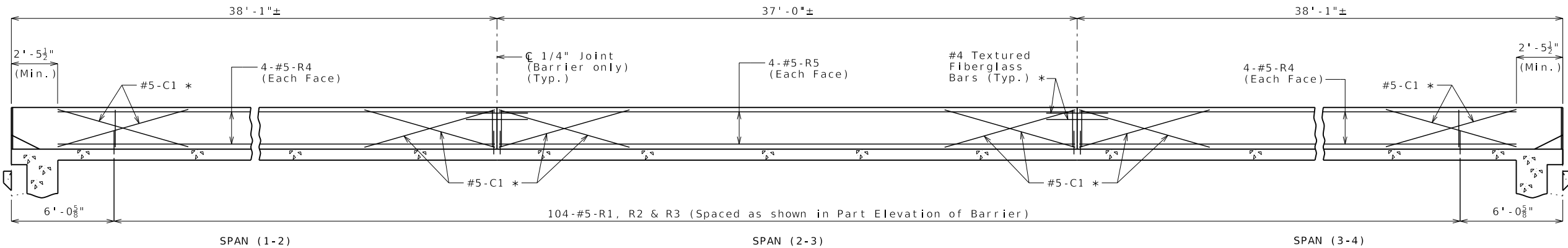
COUNTY MERCER

JOB NO. JNW0014

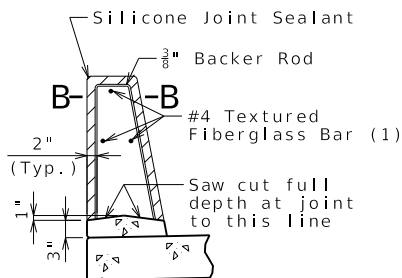
CONTRACT ID.

PROJECT NO.

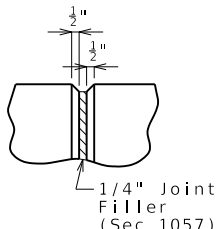
BRIDGE NO. N02542



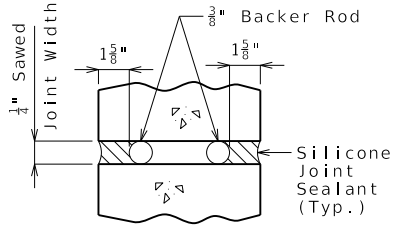
ELEVATION OF BARRIER
(Left barrier shown, right barrier similar)
Longitudinal dimensions are horizontal.



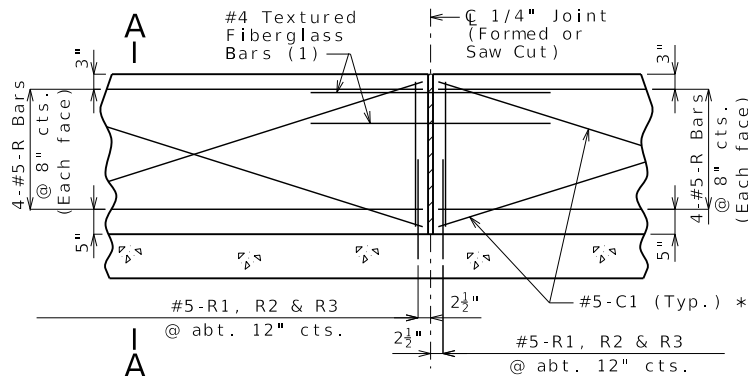
SECTION THRU
SAW CUT JOINT



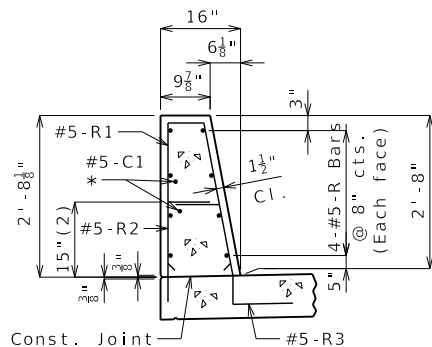
PART ELEVATION
AT FORMED JOINT



SECTION B-B



PART ELEVATION OF BARRIER
(1) Four feet long, centered on joint,
slip-formed option only

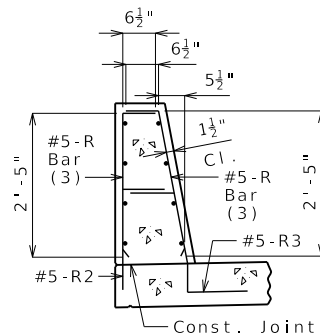


SECTION A-A

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

The cross-sectional area above the slab is 2.89 square feet.

(2) To top of bar



R-BAR PERMISSIBLE ALTERNATE SHAPE

(3) The R1 bar may be separated into two bars as shown, at the contractor's option, only when slip forming is not used. (All dimensions are out to out.)

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 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 H 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 slab to end of slab.

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 H 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.

TYPE H BARRIER



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY

DATE PREPARED

10/6/2025

ROUTE STATE

J J MO

DISTRICT SHEET NO.

BR 7

COUNTY

MERCER

JOB NO.

JNW0014

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

N02542

DESCRIPTION

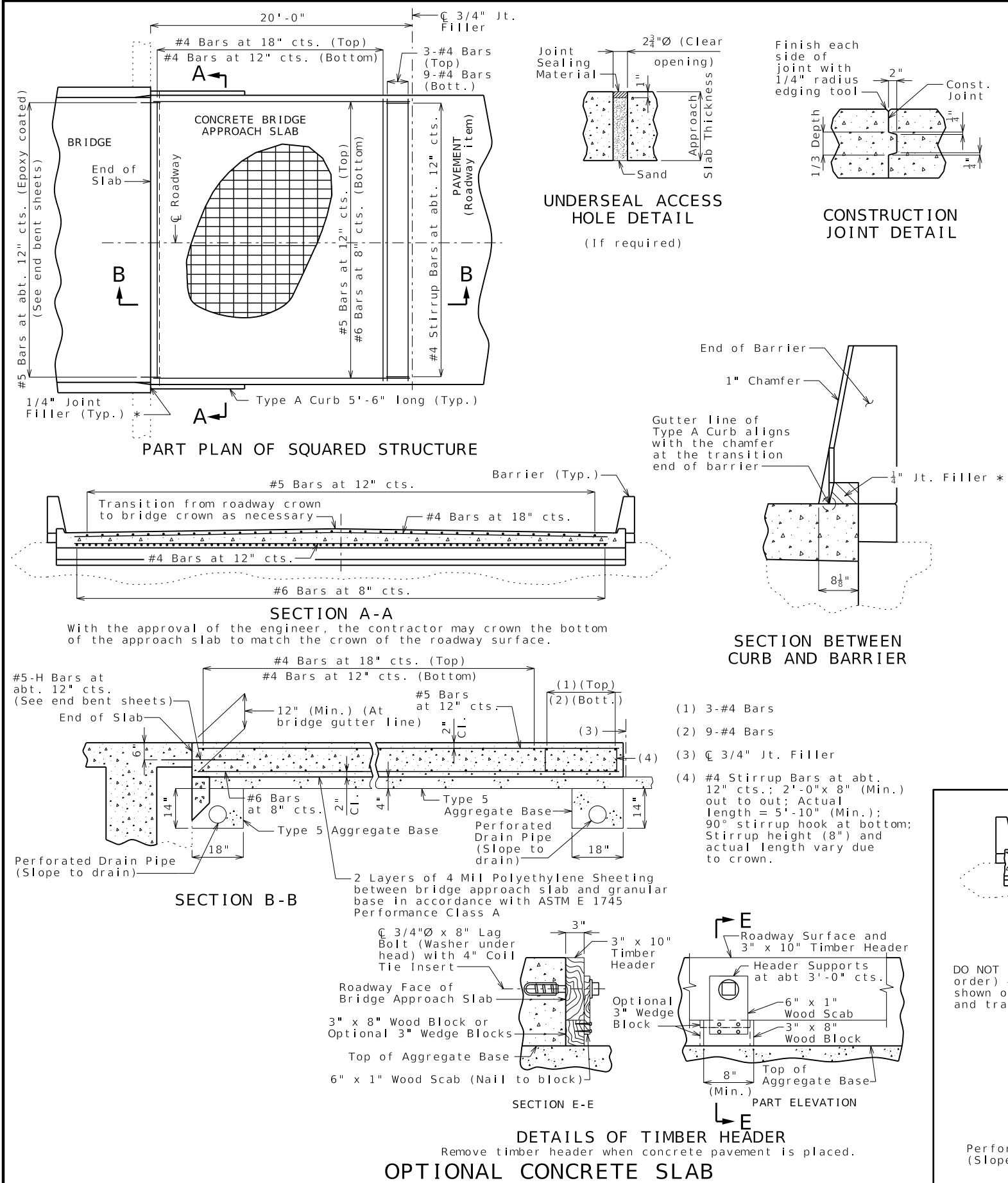
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

Garver, LLC
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

Garver



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:

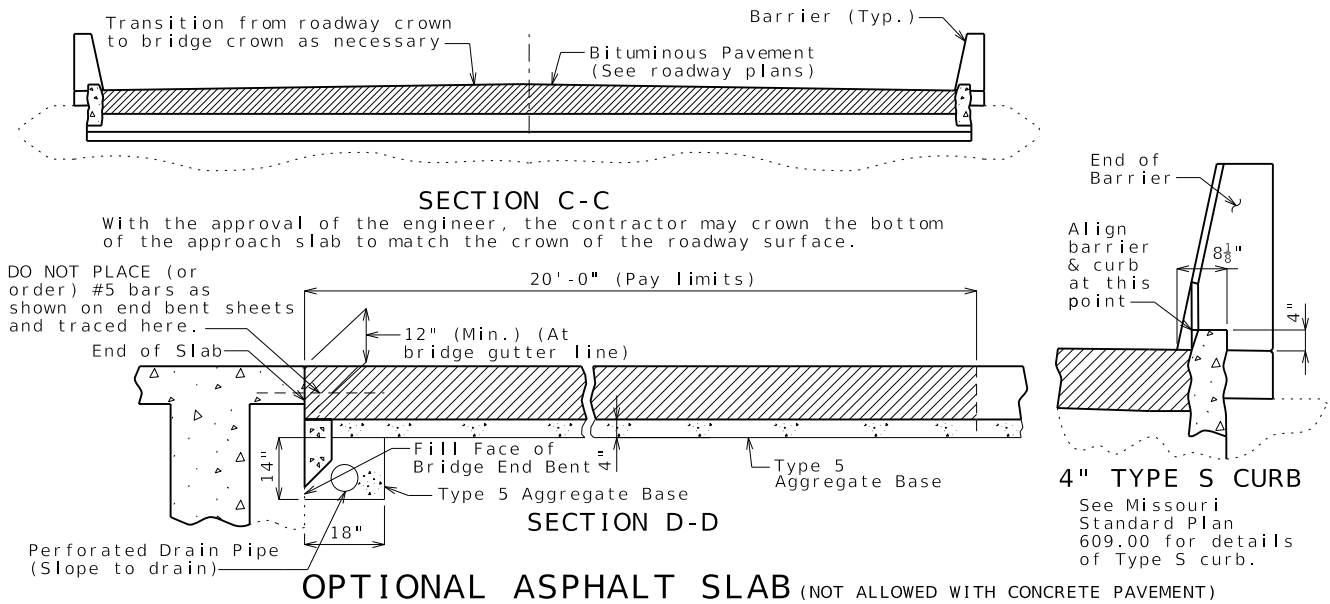
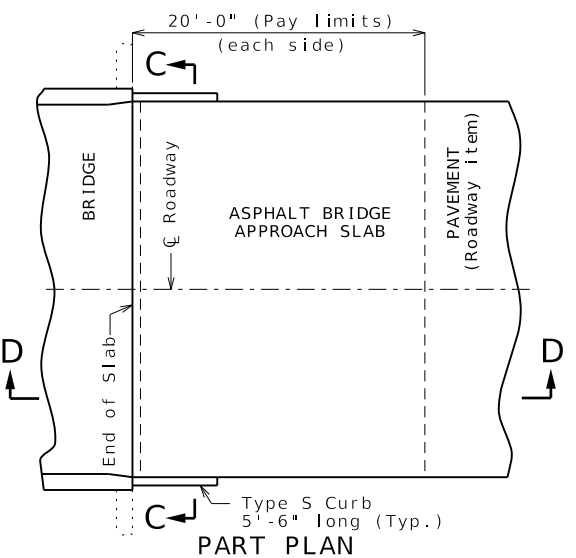
☐ Concrete Bridge Approach Slab

☐ 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.



BRIDGE APPROACH SLAB (MINOR)



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED

10/6/2025

ROUTE

J J

STATE

MO

DISTRICT

BR

SHEET NO.

9

COUNTY

MERCER

JOB NO.

JNW0014

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

N02542

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

CERTIFICATE OF AUTHORITY

NO. 2008013090

GARVER, LLC

7509 NW TIFFANY SPRINGS

PARKWAY, SUITE 200

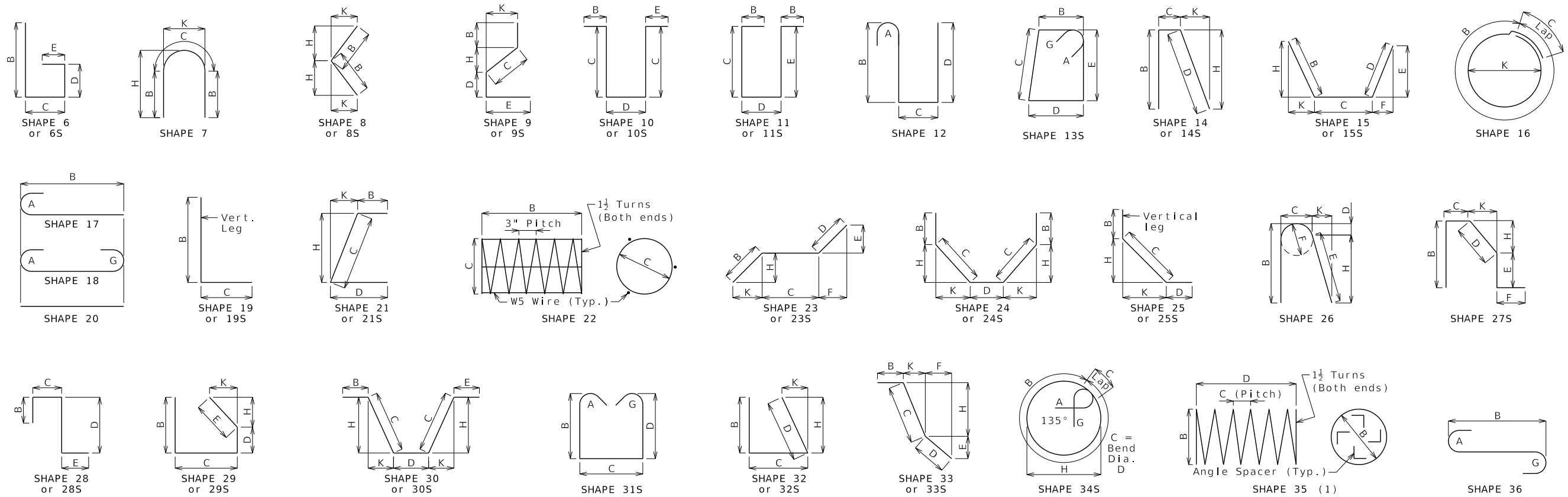
KANSAS CITY, MO 64153

PHONE: (816) 298-6465

CERTIFICATE OF AUTHORITY

NO. 2008013090

GARVER



Finished Bend Diameters D and Hook Dimensions						
Standard Pin Bend Shapes						
Size	Case	D	A or G		J	
			90°	180°	180°	
#4	1	3"	8"	6"	4"	
#5	1	3 $\frac{3}{8}$ "	10"	7"	5"	
#6	1	4 $\frac{1}{2}$ "	12"	8 $\frac{3}{4}$ "	6"	
#7	2	5 $\frac{1}{4}$ "	14"	9 $\frac{3}{4}$ "	7"	
	3	7"	15"	11 $\frac{1}{2}$ "	8 $\frac{3}{4}$ "	
#8	2	6"	16"	11"	8"	
	3	8"	17"	13 $\frac{1}{4}$ "	10"	
#9	1	9 $\frac{1}{4}$ "	19 $\frac{1}{2}$ "	15 $\frac{1}{2}$ "	11 $\frac{3}{4}$ "	
#10	1	10 $\frac{3}{4}$ "	22"	17 $\frac{1}{2}$ "	13 $\frac{3}{4}$ "	
#11	1	12"	24 $\frac{1}{2}$ "	19 $\frac{1}{2}$ "	14 $\frac{7}{8}$ "	
#14	1	18 $\frac{1}{4}$ "	31 $\frac{1}{4}$ "	27 $\frac{1}{2}$ "	21 $\frac{5}{8}$ "	
#18	1	24"	41 $\frac{1}{2}$ "	36 $\frac{1}{4}$ "	28 $\frac{1}{2}$ "	
Stirrup Pin Bend Shapes (S)						
Size	Case	D	A or G			J
			90°	135°	180°	
#4	2	2"	4 $\frac{1}{2}$ "	4 $\frac{1}{2}$ "	5"	2 $\frac{7}{8}$ "
	3	3"	5"	5 $\frac{1}{4}$ "	6"	3"
#5	2	2 $\frac{1}{2}$ "	5 $\frac{3}{4}$ "	5 $\frac{3}{4}$ "	5 $\frac{3}{4}$ "	3 $\frac{5}{8}$ "
	3	3 $\frac{3}{4}$ "	6 $\frac{1}{4}$ "	6 $\frac{1}{4}$ "	7"	3 $\frac{7}{8}$ "
#6	1	4 $\frac{1}{2}$ "	12"	7 $\frac{3}{4}$ "	8 $\frac{3}{4}$ "	4 $\frac{5}{8}$ "
<div> <div> <div>Applicable for all grades of steel.</div> <div> Case 1 applies to all reinforcement. Case 2 applies to all reinforcement except for galvanized bars. Case 3 applies to galvanized bars only. </div> </div> </div>						

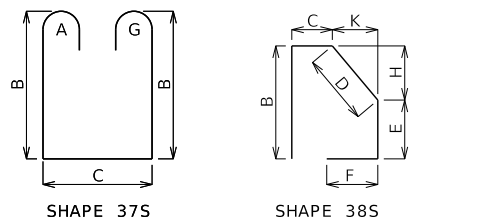
90°

180°

90°

135°

180°



BENDING DIAGRAMS

All dimensions are out to out.

(1) Shall be a deformed or plain spiral bar or wire.

Shapes ending with an S shall be bent in accordance with stirrup pin bend shapes.

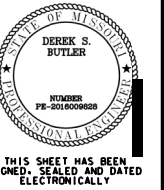
Unless otherwise noted,
finished bending diameter
D is the same for all
bends of a shape.

(1) Shall be a deformed or plain spiral bar or wire.

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 Totals (Pounds)							
		Size	Substructure		Superstructure			Entire Bridge	
			Plain	Epoxy	Slab		Barrier	Slip Form	Plain
By Size	W5	0	0	0	0	0			0
	4	0	0	0	62	0	0	0	62
	5	0	0	0	11,636	4,974	301	0	16,911
	6	0	0	0	12,222	0	0	0	12,222
	7	0	0	0	0	0	0	0	0
	8	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0
	14	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	
By Type		0	0	0	23,920	4,974	301	0	29,195

All superstructure reinforcing steel shall be epoxy coated unless otherwise specified.



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY

DATE PREPARED
06-18-97

0/6/2025

TE	STATE
I	MO

J	MO
JECT	SHEET NO.

10	10
----	----

COUNTY

MERCER

JOB NO.

JNW0014
CONTRACT ID

CONTRACT ID.

PROJECT NO. _____

BRIDGE NO.

N02542

[illegible]

MoDOT
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090



Table Showing
S2 Bar Lengths

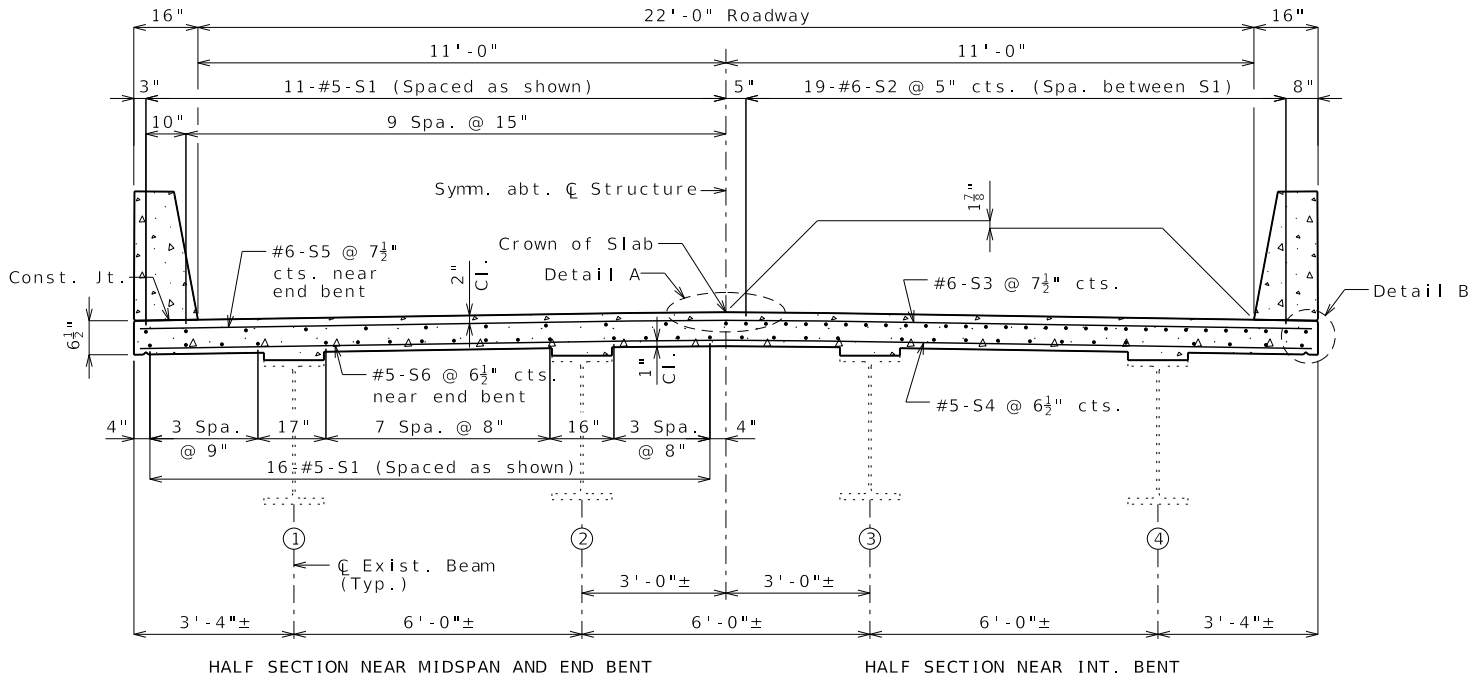
Int. Bent No. 2		Int. Bent No. 3	
Span 1	Span 2	Span 2	Span 3
28'-5"	24'-6"	24'-6"	28'-5"

Required Lap Length
For Bar Splices **

Bar Size	Splice Length
4	2'-7"
5	3'-3"
6	3'-10"
7	4'-11"

** Unless otherwise shown.

U.I.P., REDECK AND MAKE COMPOSITE EXISTING (60'- 80'- 60') CONTINUOUS WIDE FLANGE BEAM SPANS
(SKEW: 15° L.A.)



General Notes:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications
Seismic Performance Category A

Design Loading:

H15-44 (1957) (Existing)
HS20-44 (New Construction)
35 lb/sf Future Wearing Surface
Earth - 120 lb/cf, Equivalent Fluid Pressure 45 lb/cf
Fatigue Stress - Case III

Design Unit Stresses:

Class B-1 Concrete (Barrier) f'c = 4,000 psi
Class B-2 Concrete (End Bents & Superstructure, except Barrier) f'c = 4,000 psi
Reinforcing Steel (ASTM A615 Grade 60) fy = 60,000 psi

Joint Filler:

All joint filler shall be in accordance with Sec 1057 for preformed 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:

Bars bonded in existing concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, existing bars shall extend into new concrete at least 40 diameters for plain bars and 30 diameters for deformed bars, unless otherwise noted.

Roadway surfacing adjacent to bridge ends shall match new bridge slab surface. (Roadway item)

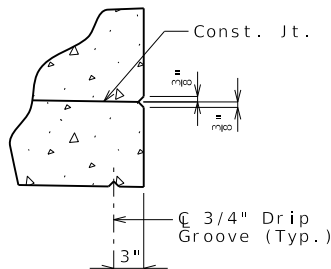
Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

The area exposed by the removal of concrete and not covered with new concrete shall be coated with an approved qualified special mortar in accordance with Sec 704.

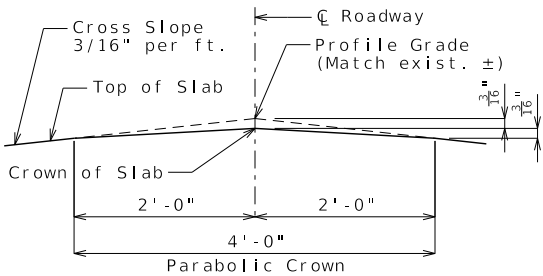
For adjusted beam deflection due to the weight of the new deck and barriers, see Bridge Electronic Deliverables.

Traffic Handling:

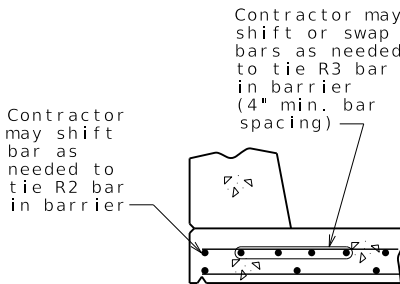
Structure to be closed during construction. Traffic to be maintained on other routes during construction. See roadway plans for traffic control.



DETAIL B



DETAIL A



OPTIONAL SHIFTING
TOP BARS AT BARRIER

TYPICAL SECTION THRU SLAB

Estimated Quantities		
Item		Total
Removal of Existing Bridge Deck	sq. foot	4528
Bridge Approach Slab (Minor)	sq. yard	101
Slab on Steel	sq. yard	558
Type H Barrier	linear foot	406
Shear Connectors	each	2808
Slab Drain	each	34
Surface Preparation for Applying Epoxy-Mastic Primer	lump sum	1
Gray Epoxy-Mastic Primer	lump sum	1
Non-Destructive Testing	linear foot	19

Cost of any required excavation for bridge will be considered completely covered by the contract unit price for other items.

Non-destructive testing to be performed on top flange cover plates of all beams.

Estimated Quantities for Slab on Steel		
Item		Total
Class B-2 Concrete	cu. yard	118
Reinforcing Steel (Epoxy Coated)	pound	40,280

The table of Estimated Quantities for Slab on Steel represents the quantities used by the State in preparing the cost estimate for concrete slabs. The area of the concrete slab will be measured to the nearest square yard longitudinally from end of slab to end of slab and transversely from out to out of bridge slab (or with the horizontal dimensions as shown on the plan of slab). Payment for stay-in-place corrugated steel forms, conventional forms, all concrete and epoxy coated reinforcing steel will be considered completely covered by the contract unit price for the slab. Variations may be encountered in the estimated quantities but the variations cannot be used for an adjustment in the contract unit price.

Method of forming the slab shall be in accordance with Sec 703. All hardware for forming the slab to be left in place as a permanent part of the structure shall be coated in accordance with ASTM A123 or ASTM B633 with a thickness Class SC 4 and a finish Type I, II or III.

Slab shall be cast-in-place with conventional forming or stay-in-place corrugated steel forms. Precast prestressed panels will not be permitted.

For Optional Stay-In-Place Form Details, see Sheet No. 2.

REPAIRS TO BRIDGE:
ROUTE 00 OVER LOCUST CREEK

ROUTE 00 FROM ROUTE BB TO ROUTE 5
ABOUT 2.5 MILES SOUTHEAST OF ROUTE BB
BEGINNING STATION 285+96.10± (MATCH EXISTING)



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY

DATE PREPARED

10/7/2025

ROUTE STATE

OO MO

DISTRICT SHEET NO.

BR 1

COUNTY

SULLIVAN

JOB NO.

JNW0014

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

N09731

DESCRIPTION

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

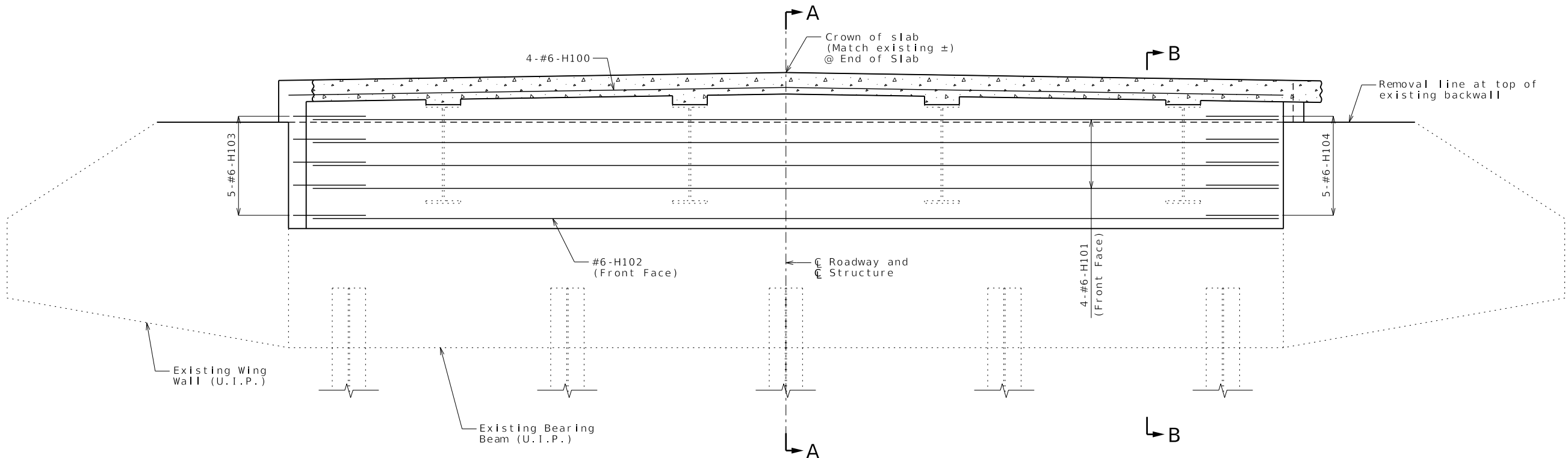
DATE

DATE

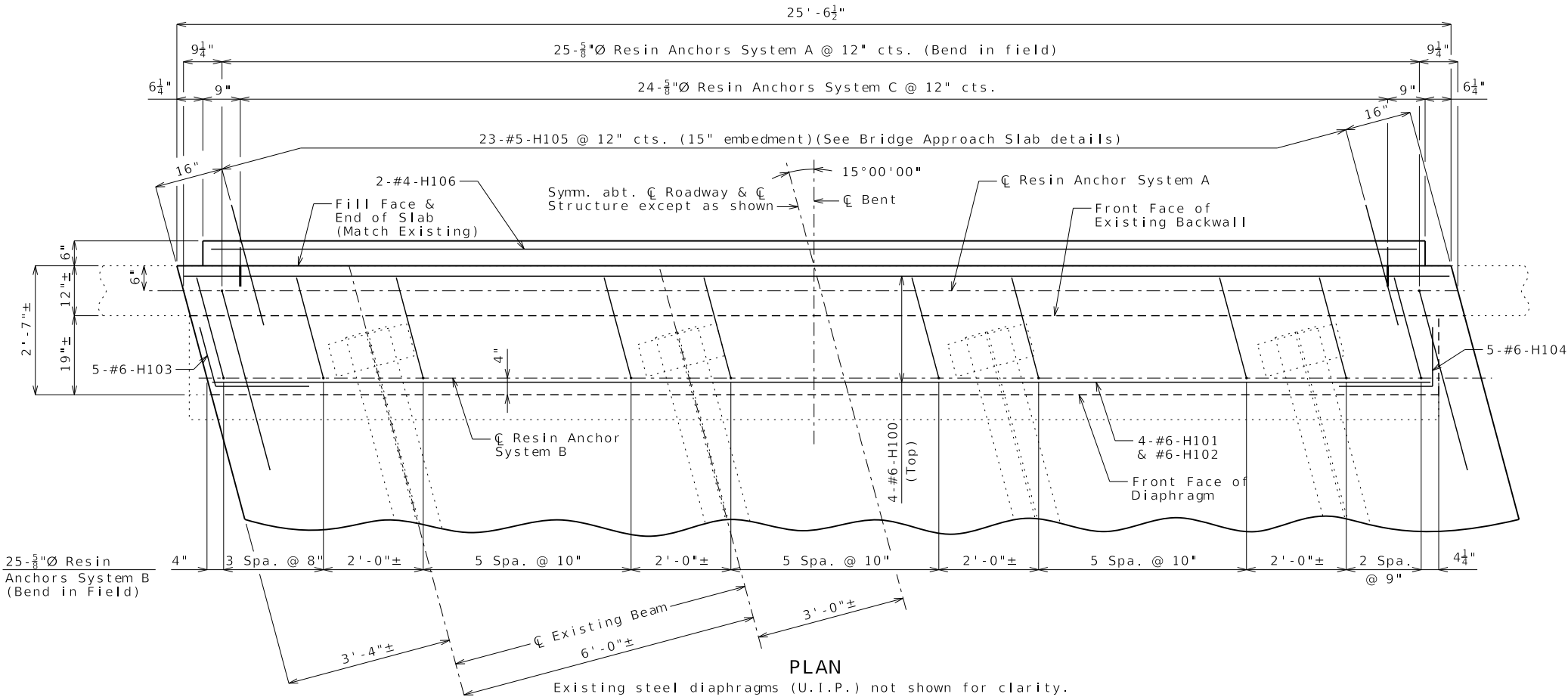
DATE

DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



SECTION NEAR END BENT
End Bent No. 1 shown (End Bent No. 4 similar)
Existing steel end diaphragms and bearing stiffeners not shown for clarity (leave in place).
Resin anchors and Type H Barrier not shown for clarity.



END BENTS NO. 1 & 4

Notes:
Work this sheet with Sheet No. 4.

The exposed and accessible surfaces of the existing structural steel and bearings that will be encased in concrete shall be cleaned with a minimum of SSPC-SP-3 surface preparation and coated with a minimum of one coat of gray epoxy-mastic primer (non-aluminum) in accordance with Sec 1081 to produce a dry film thickness of not less than 3 mils before concrete is poured. The surface preparation and coating for beams shall extend a minimum of one foot outside the face of the beam encasement. Payment for cleaning and coating steel to be encased in concrete will be considered completely covered by the contract unit price for Slab on Steel.

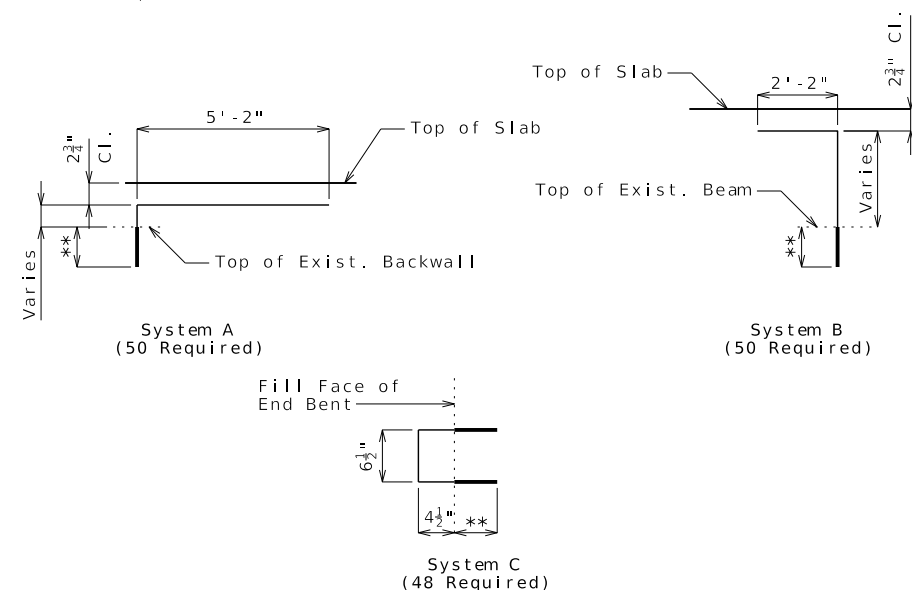
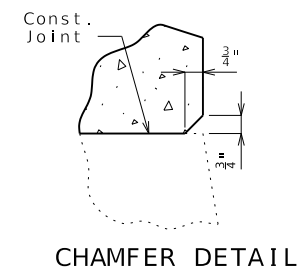
The H101 bars are segmented for ease of placement through beam web holes. The total bar length for H101 bars shown in Bill of Reinforcing Steel allows for one lap splice with a length of 3'-8". Actual bar lengths to be determined by contractor for ease of installing bars. The contractor may use a mechanical splice in lieu of a lap splice. When a mechanical bar splice is used, the actual bar segment length determined by the contractor to accommodate manufacturer's recommendations for installation and ease of construction. The cost of furnishing and installing the bar splices will be considered completely covered by the contract unit price for Slab on Steel. No adjustment of the quantity of reinforcing steel will be allowed for the use of mechanical bar splices.

All concrete and reinforcement in the end bents is included in the Estimated Quantities for Slab on Steel.

Resin Anchor Systems A & B and #5-H105 bars shall be placed parallel to centerline of roadway.

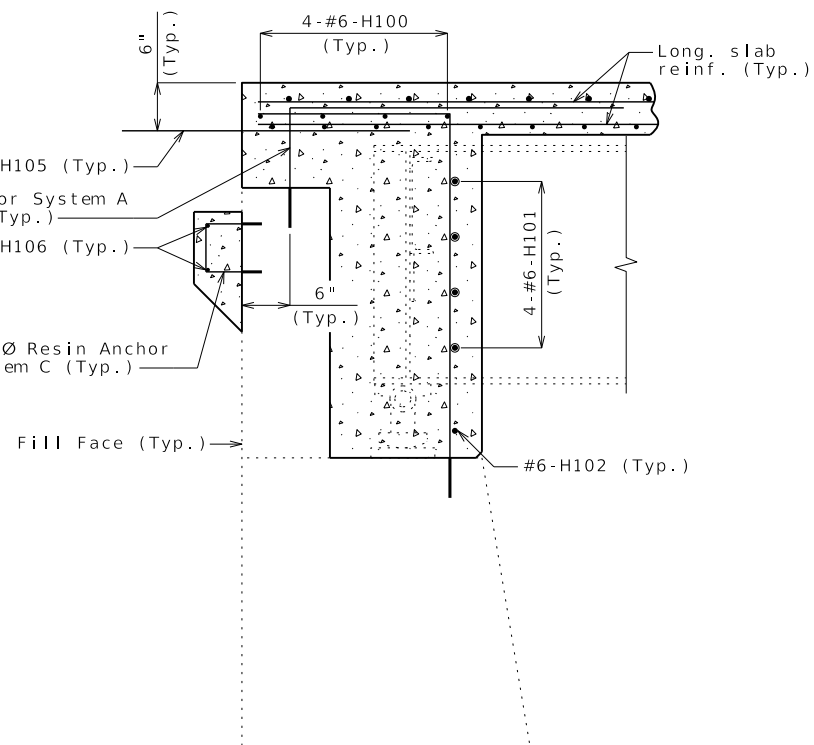
For details of bridge approach slab, see Sheet No. 8.

For details and reinforcement of barrier, see Sheet No. 7.

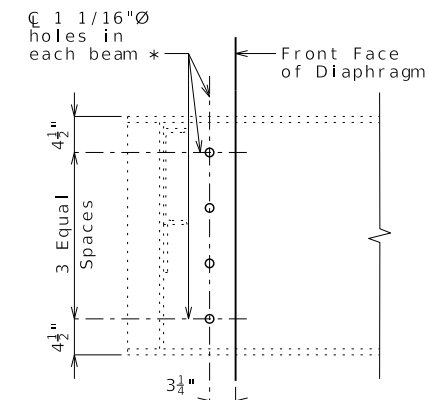


DETAILS OF RESIN ANCHOR SYSTEMS

** Manufacturer's recommended embedment length (5" min.)



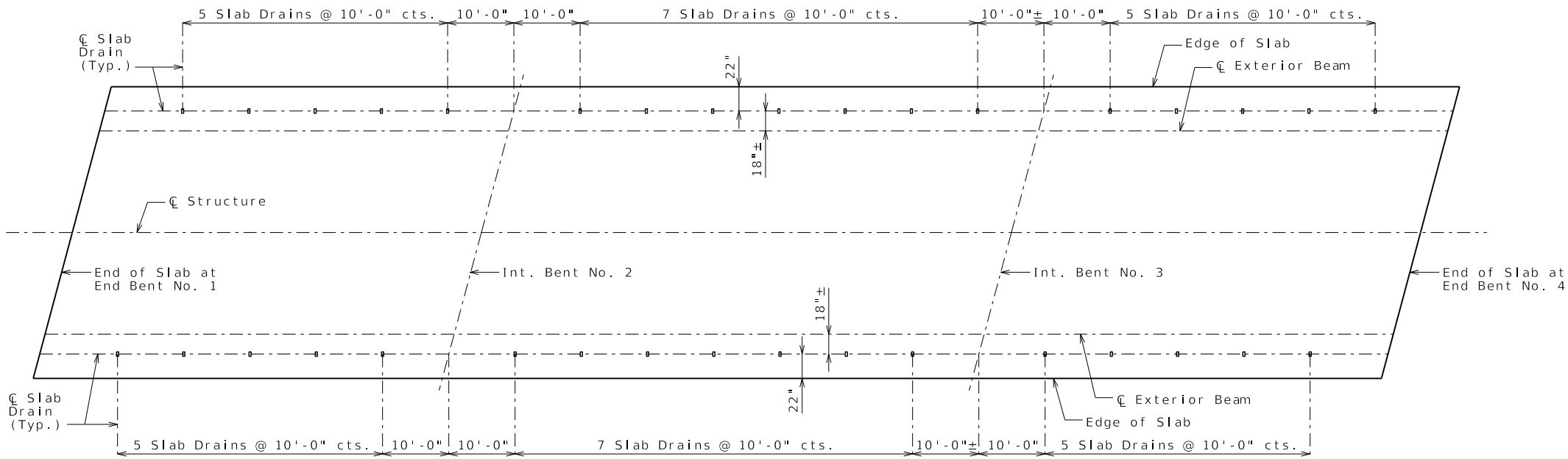
SECTION B-B



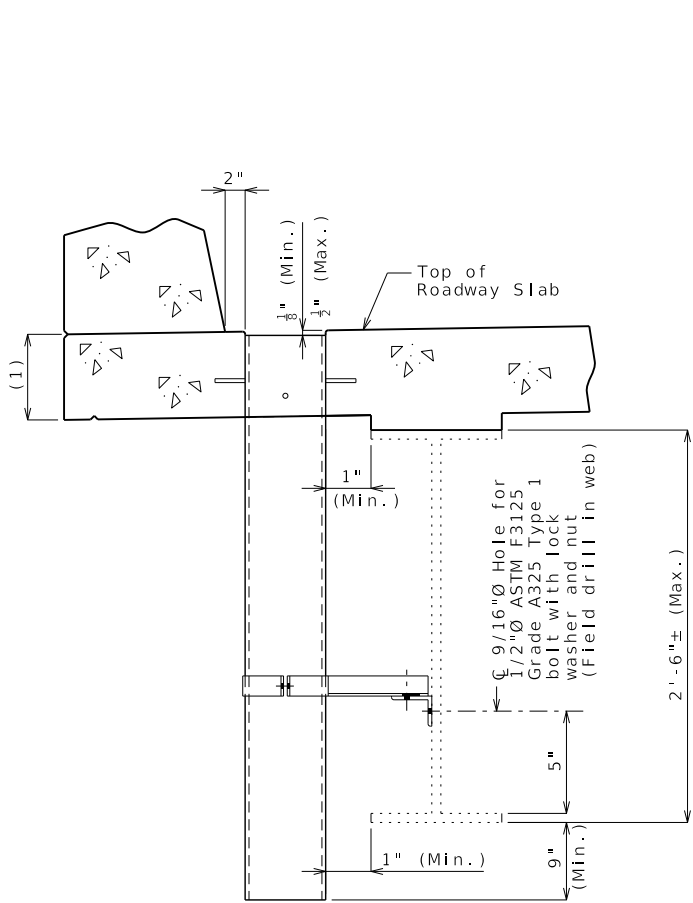
DETAIL OF WEB HOLES AT END BENTS

* Cost of field drilling holes in existing wide flange beam webs will be considered completely covered by the contract unit price for Slab on Steel.

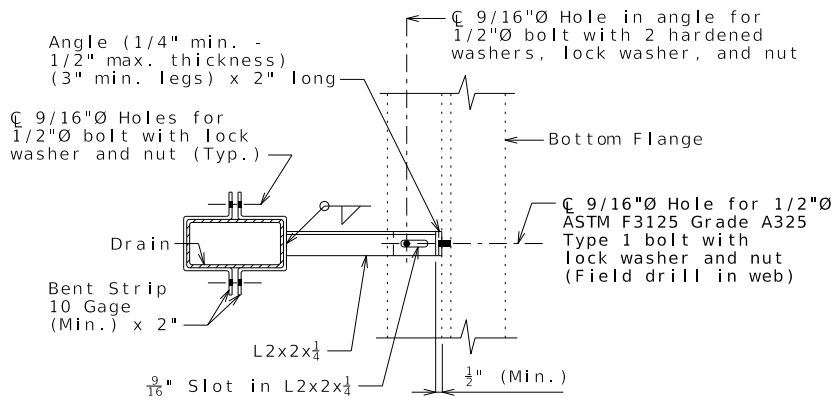
An epoxy coated #5 Grade 60 reinforcing bar shall be substituted for the 5/8"Ø threaded rod for Resin Anchor Systems A, B & C.



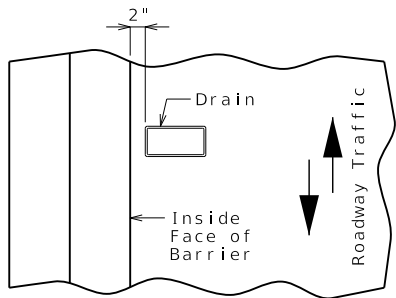
PLAN OF SLAB SHOWING SLAB DRAIN LOCATIONS



PART SECTION NEAR DRAIN

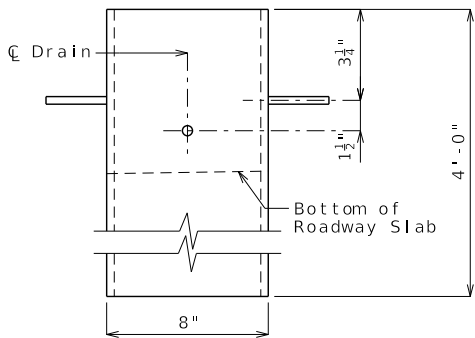


PART SECTION SHOWING BRACKET ASSEMBLY

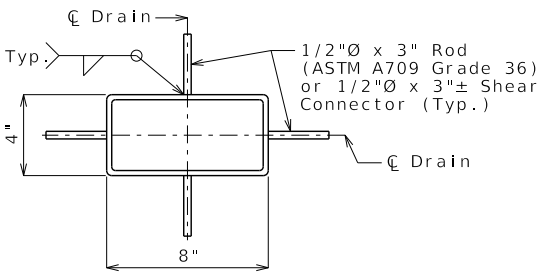


PART PLAN OF SLAB AT DRAIN

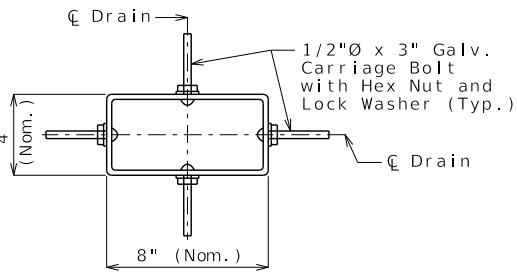
SLAB DRAINS



ELEVATION OF DRAIN



PLAN OF STEEL DRAIN OPTION



PLAN OF FRP DRAIN OPTION

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 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 bolt hole for the bracket assembly attachment shall be shifted to the minimum extent necessary to field drill in the existing web.

(1) See front sheet for slab thickness.

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 recommended by the manufacturer to ensure a smooth, chip free cut.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 10/6/2025

ROUTE OO STATE MO

DISTRICT BR SHEET NO. 5

COUNTY SULLIVAN

JOB NO. JNW0014

CONTRACT ID.

PROJECT NO.

BRIDGE NO. N09731

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

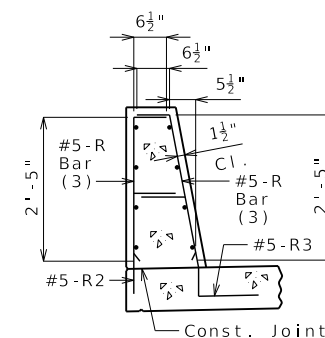
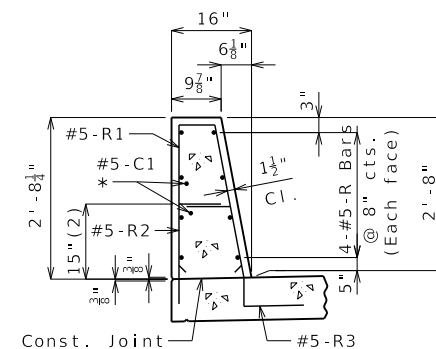
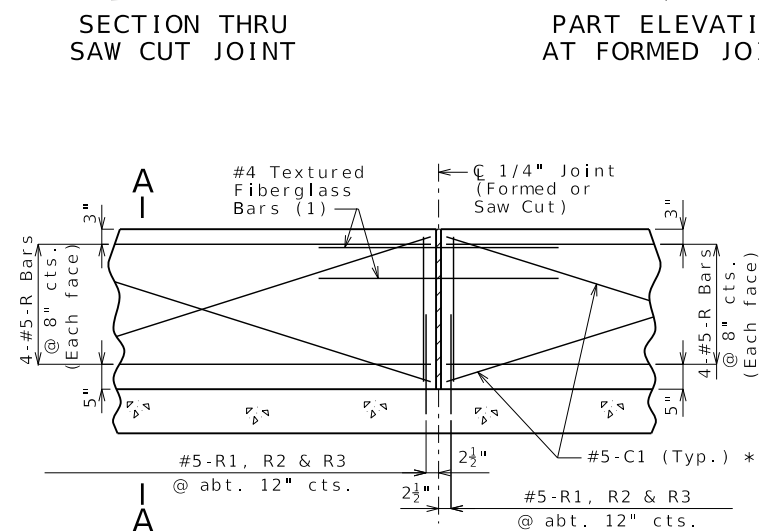
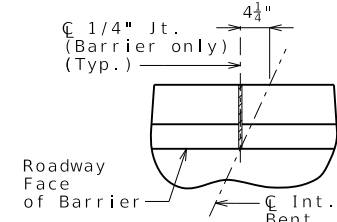
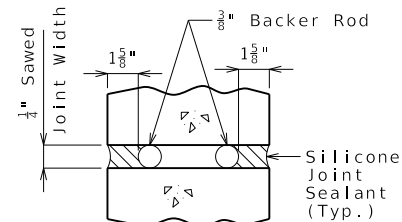
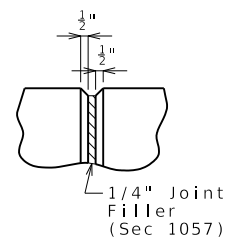
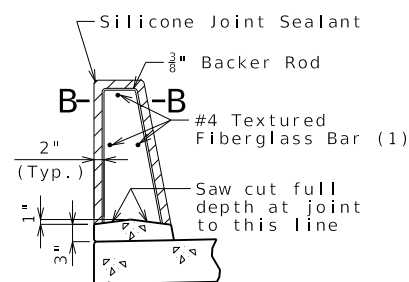
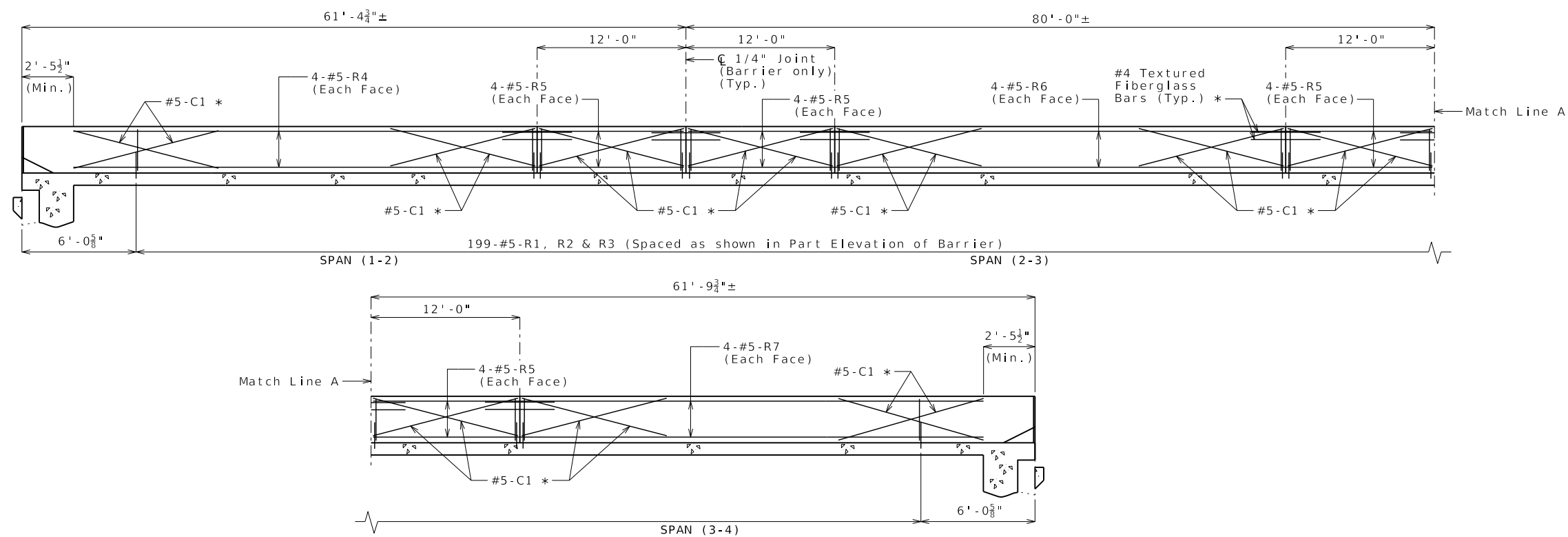
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

GARVER, LLC
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090





R-BAR PERMISSIBLE ALTERNATE SHAPE

(3) The R1 bar may be separated into two bars as shown, at the contractor's option, only when slip forming is not used. (All dimensions are out to out.)

The cross-sectional area above the slab is 2.89 square feet.

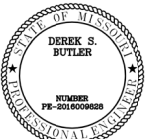
(2) To top of bar

TYPE H BARRIER

Detailed Jul. 2025
Checked Aug. 2025

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

Sheet No. 6 of 10



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY

DATE PREPARED

ROUTE	STATE
-------	-------

DISTRICT	SHEET NO.
----------	-----------

COUNTY

JOB NO.

CONTRACT ID.

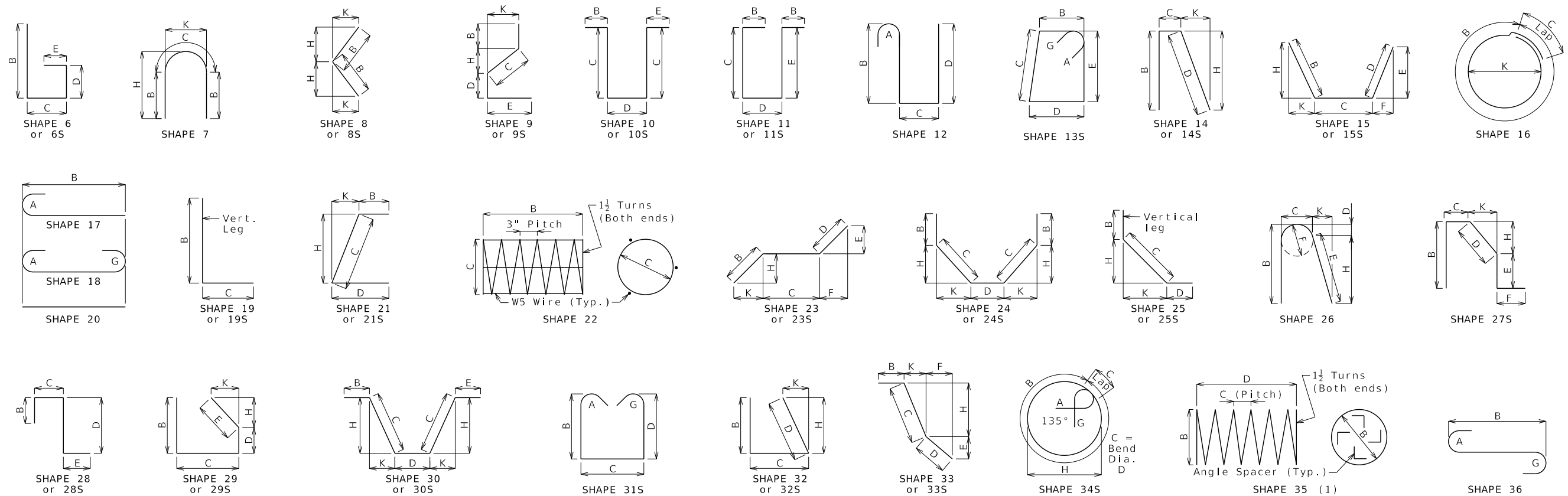
PROJECT NO. _____

BRIDGE NO. _____

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090





Finished Bend Dimensions D and Hook Dimensions

Standard Pin Bend Shapes

Size	Case	D	A or G		J
			90°	180°	180°
#4	1	3"	8"	6"	4"
#5	1	3 $\frac{3}{4}$ "	10"	7"	5"
#6	1	4 $\frac{1}{4}$ "	12"	8 $\frac{1}{4}$ "	6"
#7	2	5 $\frac{1}{4}$ "	14"	9 $\frac{3}{4}$ "	7"
	3	7"	15"	11 $\frac{1}{2}$ "	8 $\frac{3}{4}$ "
#8	2	6"	16"	11"	8"
	3	8"	17"	13 $\frac{1}{4}$ "	10"
#9	1	9 $\frac{1}{2}$ "	19 $\frac{1}{2}$ "	15 $\frac{1}{2}$ "	11 $\frac{3}{4}$ "
#10	1	10 $\frac{3}{4}$ "	22"	17 $\frac{1}{2}$ "	13 $\frac{1}{4}$ "
#11	1	12"	24 $\frac{1}{2}$ "	19 $\frac{1}{2}$ "	14 $\frac{7}{8}$ "
#14	1	18 $\frac{1}{4}$ "	31 $\frac{1}{4}$ "	27 $\frac{1}{2}$ "	21 $\frac{5}{8}$ "
#18	1	24"	41 $\frac{1}{2}$ "	36 $\frac{1}{4}$ "	28 $\frac{1}{2}$ "

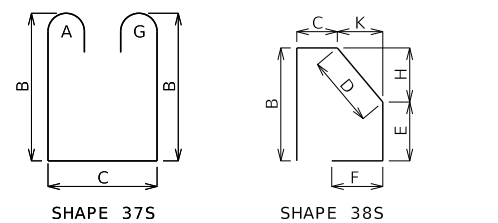
Stirrup Pin Bend Shapes (S)

Size	Case	D	A or G			H	J
			90°	135°	180°	135°	180°
#4	2	2"	4 $\frac{1}{2}$ "	4 $\frac{1}{2}$ "	5"	2 $\frac{7}{8}$ "	3"
	3	3"	5"	5 $\frac{1}{4}$ "	6"	3"	4"
#5	2	2 $\frac{1}{2}$ "	5 $\frac{3}{4}$ "	5 $\frac{3}{4}$ "	5 $\frac{3}{4}$ "	3 $\frac{3}{8}$ "	3 $\frac{3}{4}$ "
	3	3 $\frac{3}{4}$ "	6 $\frac{1}{4}$ "	6 $\frac{1}{4}$ "	7"	3 $\frac{7}{8}$ "	5"
#6	1	4 $\frac{1}{2}$ "	12"	7 $\frac{3}{4}$ "	8 $\frac{1}{4}$ "	4 $\frac{5}{8}$ "	6"

6d for #4 & #5,
12d for #6

Applicable for all grades of steel.

Case 1 applies to all reinforcement. Case 2 applies to all reinforcement except for galvanized bars. Case 3 applies to galvanized bars only.



BENDING DIAGRAMS

All dimensions are out to out.

(1) Shall be a deformed or plain spiral bar or wire.

Shapes ending with an S shall be bent in accordance with stirrup pin bend shapes.

Unless otherwise noted,
finished bending diameter
D is the same for all
bends of a shape.

(1) Shall be a deformed or plain spiral bar or wire.

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 Totals (Pounds)								
	Size	Substructure		Superstructure			Entire Bridge		
		Plain	Epoxy	Slab		Barrier	Slip Form	Plain	Epoxy
				Plain	Epoxy				
By Size	W5	0	0	0	0	0	0	0	0
	4	0	0	0	65	0	0	0	65
	5	0	0	0	21,448	8,560	501	0	30,509
	6	0	0	0	18,768	0	0	0	18,768
	7	0	0	0	0	0	0	0	0
	8	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0
	14	0	0	0	0	0	0	0	0
	18	0	0	0	0	0	0	0	0
By Type		0	0	0	40,281	8,560	501	0	49,342

All superstructure reinforcing steel shall be epoxy coated unless otherwise specified.



DATE PREPARED	
10/6/2025	
ROUTE	STATE
00	MO
DISTRICT	SHEET NO.
BR	9

COUNTY	SULLIVAN
JOB NO.	JNW0014
CONTRACT ID.	

PROJECT NO.

BRIDGE NO.
N09731

--	--	--	--	--	--	--



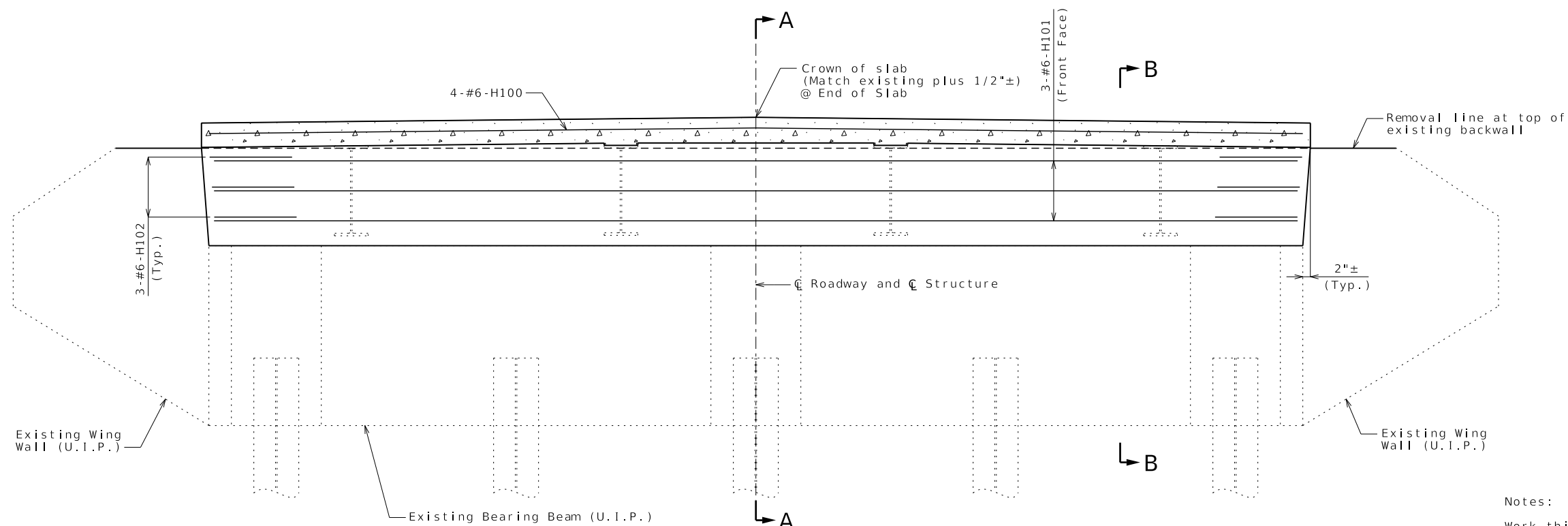
MoDOT
COMMISSION

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

GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090

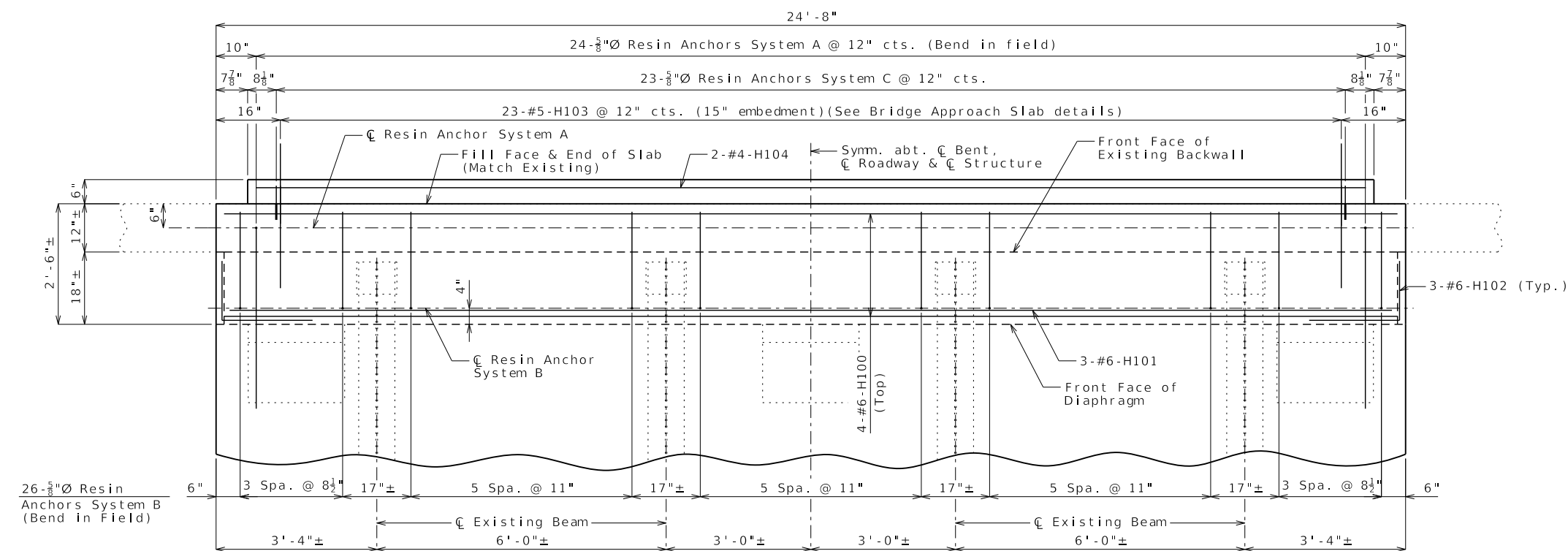


IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



SECTION NEAR END BENT

Existing steel end diaphragms not shown for clarity
(leave in place).
Resin anchors and Type H Barrier not shown for clarity.



PLAN

Existing steel diaphragms (U.I.P.) not shown for clarity.

Notes:

Work this sheet with Sheet No. 4.

The exposed and accessible surfaces of the existing structural steel and bearings that will be encased in concrete shall be cleaned with a minimum of SSPC-SP-3 surface preparation and coated with a minimum of one coat of gray epoxy-mastic primer (non-aluminum) in accordance with Sec 1081 to produce a dry film thickness of not less than 3 mils before concrete is poured. The surface preparation and coating for beams shall extend a minimum of one foot outside the face of the beam encasement. Payment for cleaning and coating steel to be encased in concrete will be considered completely covered by the contract unit price for Slab on Steel.

The H101 bars are segmented for ease of placement through beam web holes. The total bar length for H101 bars shown in Bill of Reinforcing Steel allows for one lap splice with a length of 3'-8". Actual bar lengths to be determined by contractor for ease of installing bars. The contractor may use a mechanical splice in lieu of a lap splice. When a mechanical bar splice is used, the actual bar segment length determined by the contractor to accommodate manufacturer's recommendations for installation and ease of construction. The cost of furnishing and installing the bar splices will be considered completely covered by the contract unit price for Slab on Steel. No adjustment of the quantity of reinforcing steel will be allowed for the use of mechanical bar splices.

All concrete and reinforcement in the end bents is included in the Estimated Quantities for Slab on Steel.

For details of bridge approach slab, see Sheet No. 9.

For details and reinforcement of barrier, see Sheet No. 8.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
10/6/2025

ROUTE
FF

STATE
MO

DISTRICT
BR

SHEET NO.
3

COUNTY
PUTNAM

JOB NO.
JNW0014

CONTRACT ID.

PROJECT NO.

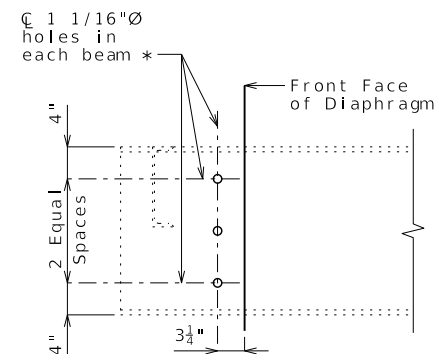
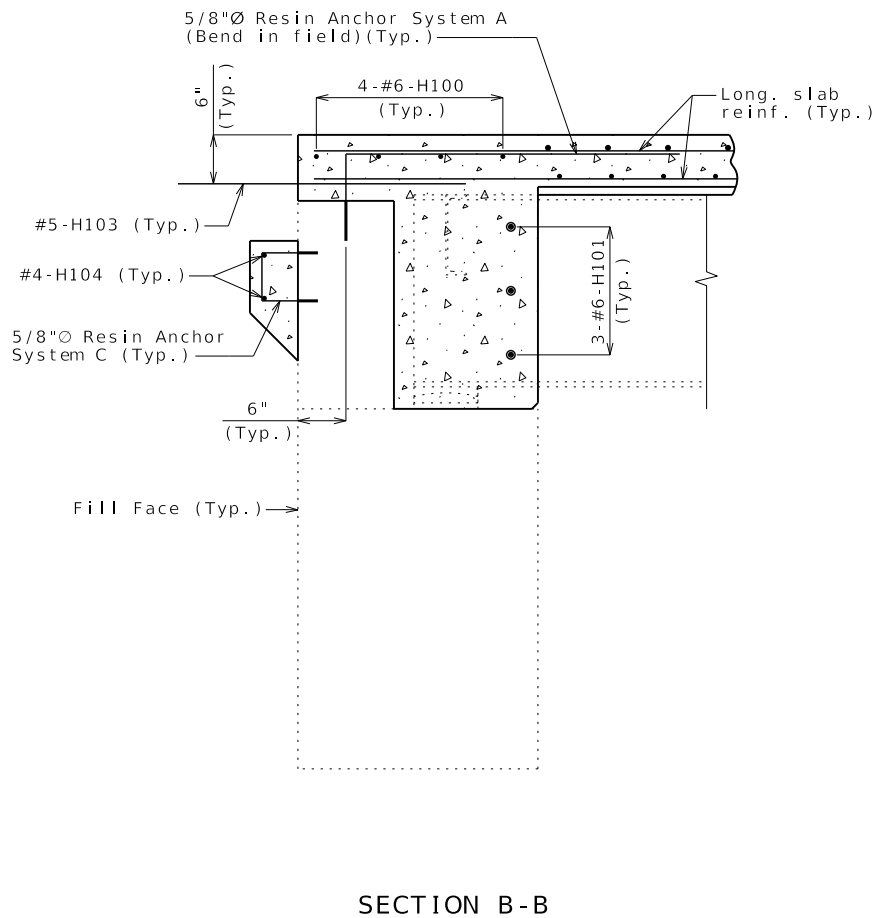
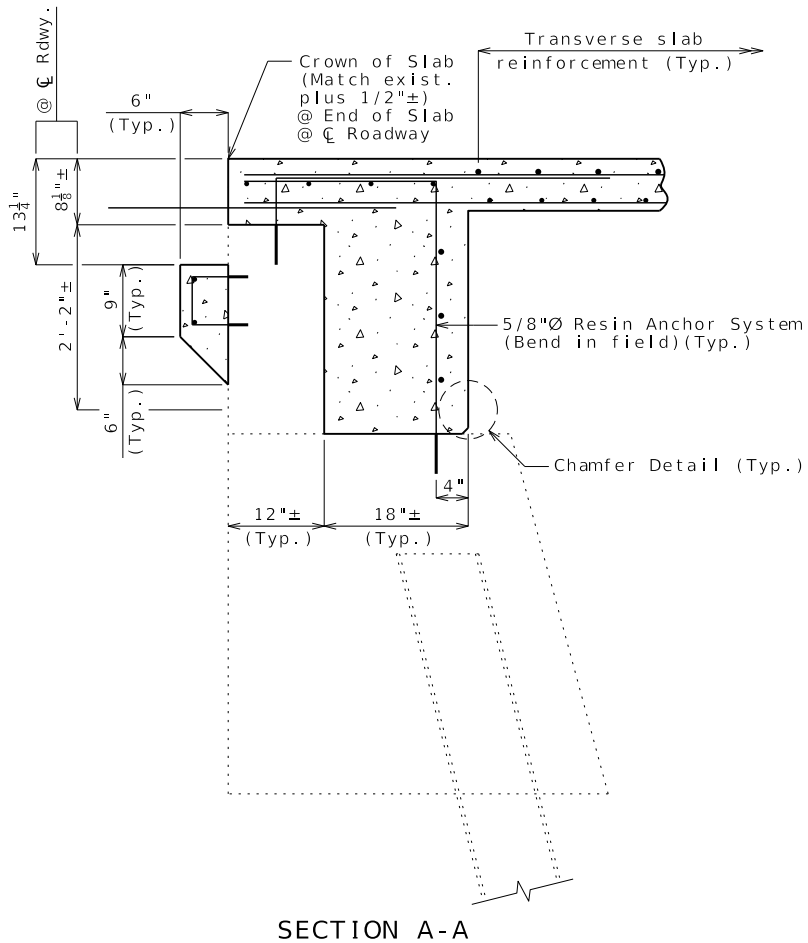
BRIDGE NO.
P08332

DESCRIPTION	DATE

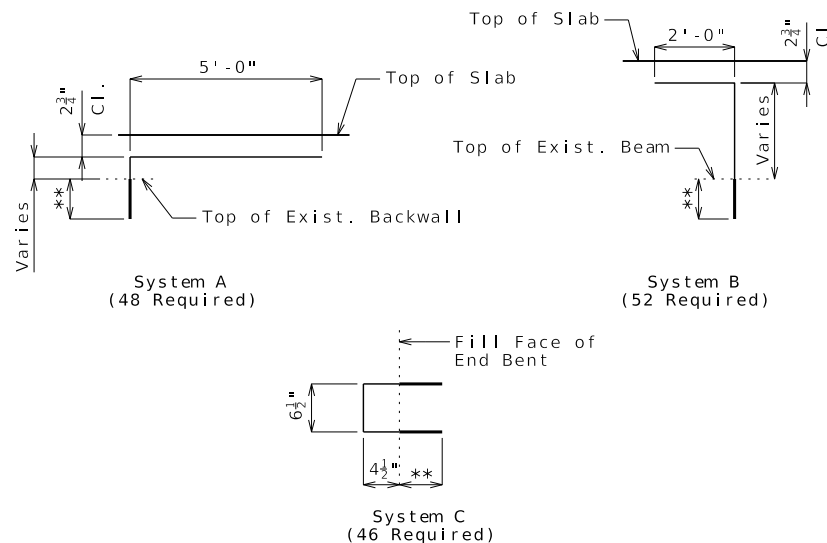
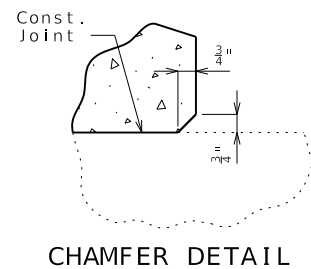


GARVER, LLC.
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090





* Cost of field drilling holes in existing wide flange beam webs will be considered completely covered by the contract unit price for Slab on Steel.



** Manufacturer's recommended embedment length (5" min.)

Notes:

Work this sheet with Sheet No. 3.

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

Cost of furnishing and installing the resin anchor systems, complete in place, will be considered completely covered by the contract unit price for Slab on Steel.

The minimum embedment depth in concrete with f'c = 4,000 psi for the resin anchor systems shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5 inches.

An epoxy coated #5 Grade 60 reinforcing bar shall be substituted for the 5/8"Ø threaded rod for Resin Anchor Systems A, B & C.

END BENTS NO. 1 & 4

Detailed Jul. 2025
Checked Aug. 2025

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

Sheet No. 4 of 11



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY

DATE PREPARED

10/6/2025

ROUTE STATE

FF MO

DISTRICT SHEET NO.

BR 4

COUNTY

PUTNAM

JOB NO.

JNW0014

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

P08332

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

Garver, LLC

7509 NW TIFFANY SPRINGS

PARKWAY, SUITE 200

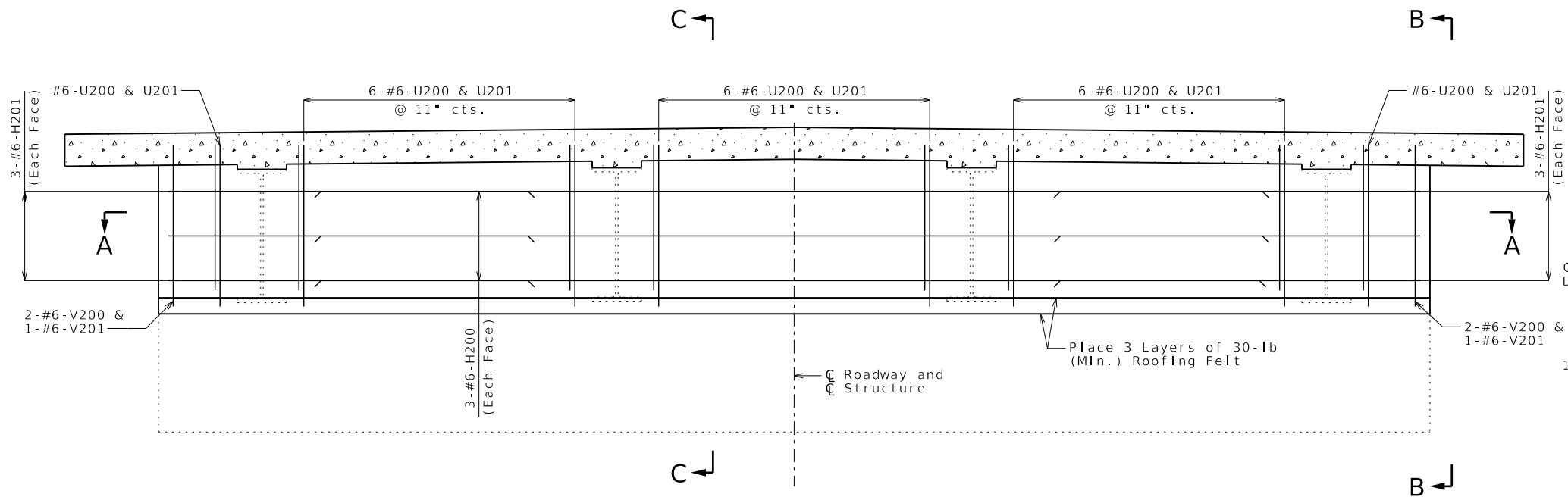
KANSAS CITY, MO 64153

PHONE: (816) 298-6465

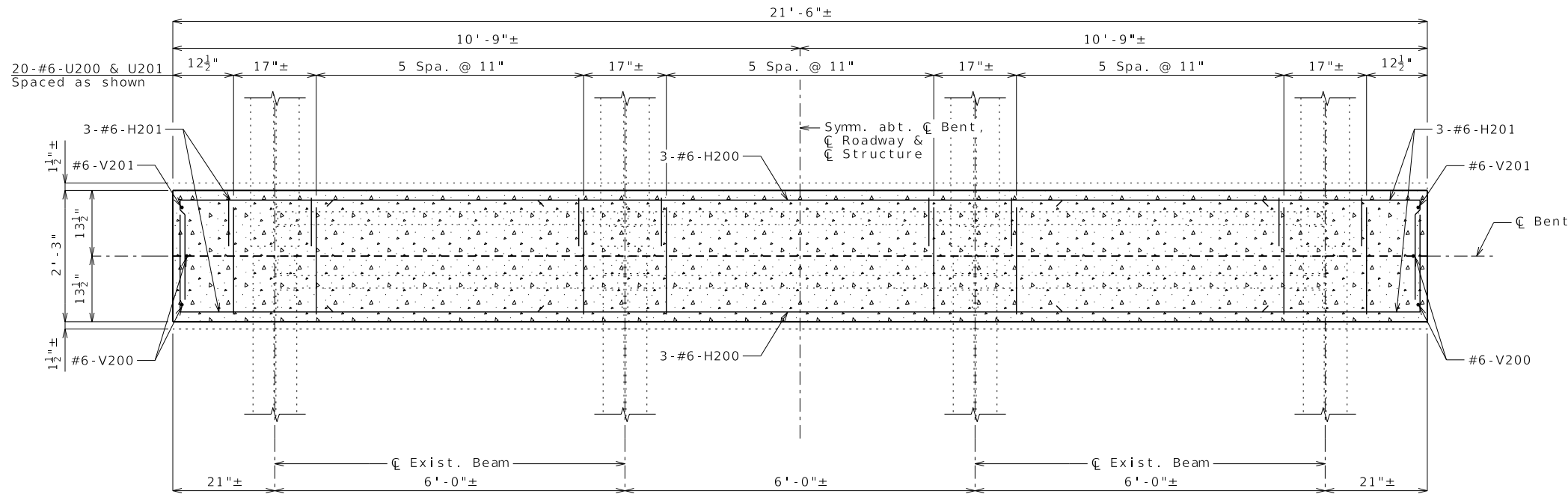
CERTIFICATE OF AUTHORITY

NO. 2008013090

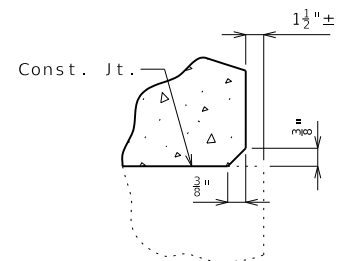
Garver



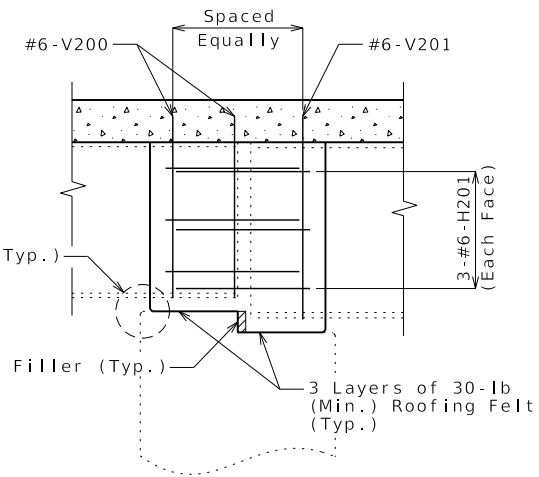
PART SECTION NEAR INTERMEDIATE BENT
 (Looking ahead station at Int. Bent No. 2, Int. Bent No. 3 similar)
 Existing steel end diaphragms and bearing stiffeners not shown for clarity
 (leave in place).
 Type H Barrier and slab reinforcement not shown for clarity.



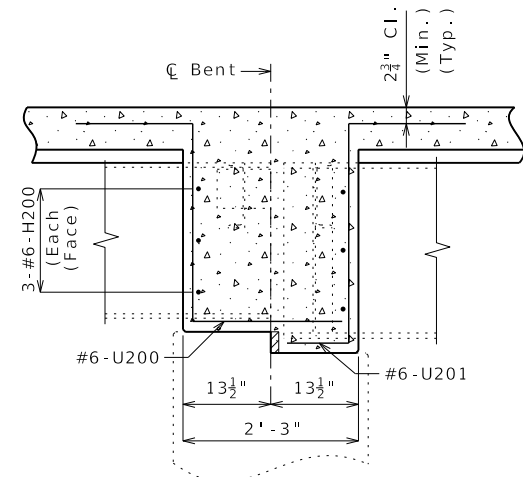
- Notes:
- The exposed and accessible surfaces of the existing structural steel and bearings that will be encased in concrete shall be cleaned with a minimum of SSPC-SP-3 surface preparation and coated with a minimum of one coat of gray epoxy-mastic primer (non-aluminum) in accordance with Sec 1081 to produce a dry film thickness of not less than 3 mils before concrete is poured. The surface preparation and coating for beams shall extend a minimum of one foot outside the face of the beam encasement. Payment for cleaning and coating steel to be encased in concrete will be considered completely covered by the contract unit price for Slab on Steel.
 - All concrete and reinforcement in the intermediate bent diaphragms, complete in place, will be considered completely covered by the contract unit price for Slab on Steel and is included in the table of Estimated Quantities for Slab on Steel.
 - Cut existing anchor bolts flush with top of beam cap. Place 3 layers of 30-lb (Min.) roofing felt beneath existing bearings.



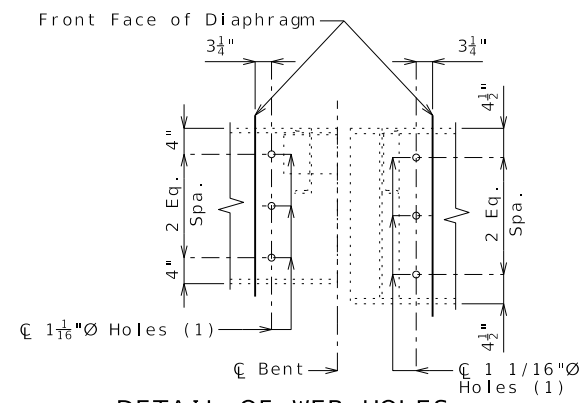
CHAMFER DETAIL



ELEVATION B-B



SECTION C-C



DETAIL OF WEB HOLES AT INT. BENTS

- (1) Cost of field drilling holes in existing wide flange beam webs will be considered completely covered by the contract unit price for Slab on Steel.

DETAILS OF CONCRETE DIAPHRAGMS AT INTERMEDIATE BENTS NO. 2 & 3

Note: This drawing is not to scale. Follow dimensions. Sheet No. 5 of 11

Detailed Aug. 2025
 Checked Aug. 2025



THIS SHEET HAS BEEN
 SIGNED, SEALED AND DATED
 ELECTRONICALLY

DATE PREPARED
 10/6/2025
 ROUTE
 FF MO
 DISTRICT
 BR SHEET NO.
 5
 COUNTY
 PUTNAM
 JOB NO.
 JNW0014
 CONTRACT ID.

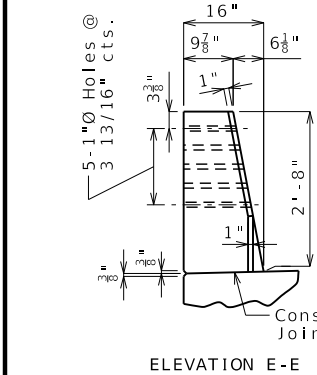
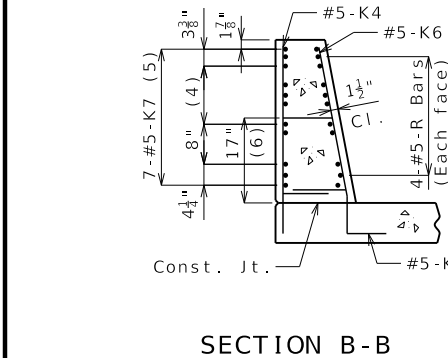
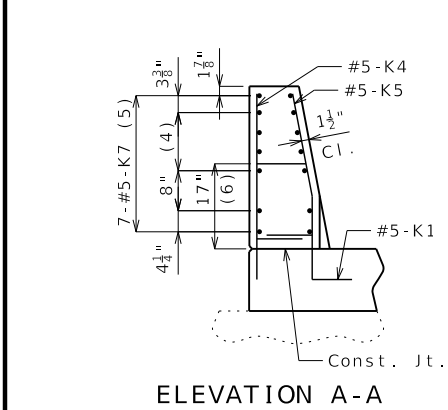
PROJECT NO.
 BRIDGE NO.
 P08332

DESCRIPTION	DATE

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

GARVER, LLC
 7509 NW TIFFANY SPRINGS
 PARKWAY, SUITE 200
 KANSAS CITY, MO 64153
 PHONE: (816) 298-6465
 CERTIFICATE OF AUTHORITY
 NO. 2008013090

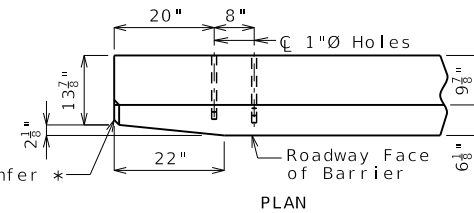
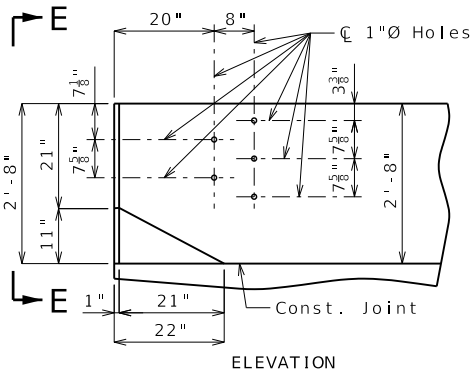




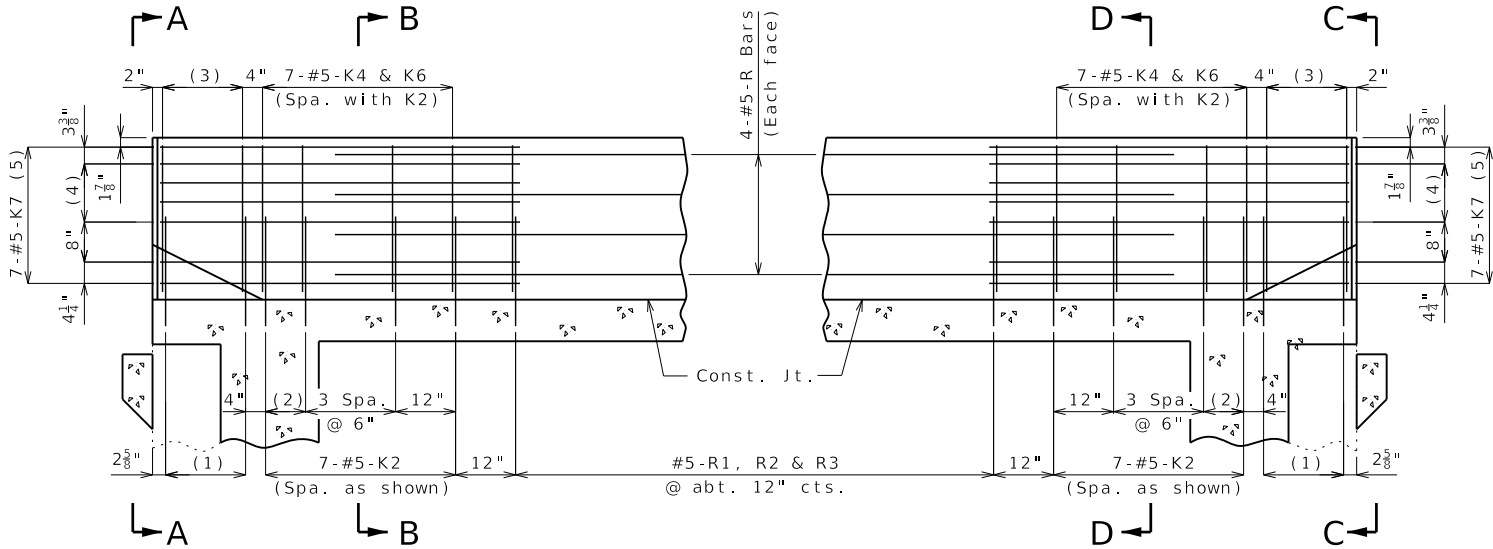
* Transition to zero at Type A curb for gutter lines to match.

DETAILS OF GUARD RAIL ATTACHMENT

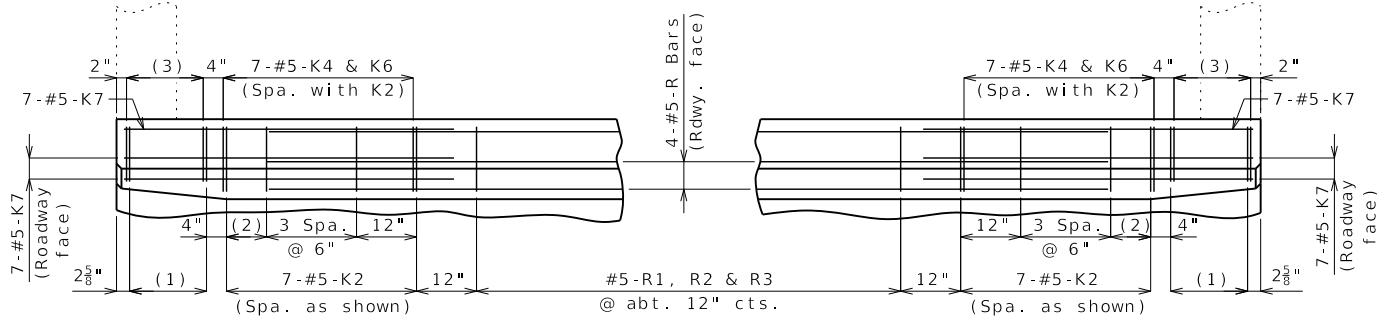
Detailed Jul. 2025
Checked Aug. 2025



PLAN



- (1) 5-#5-K1 @ 4" cts.
- (2) 2 Spaces @ 4"
- (3) 5-#5-K4 and 5-#5-K5, spaced with K1
- (4) 3 Spaces @ 3 1/8"
- (5) Spaced as shown, each face
- (6) To top of bar



PART PLAN

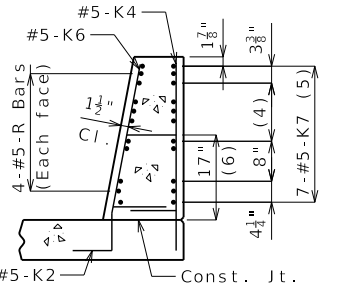
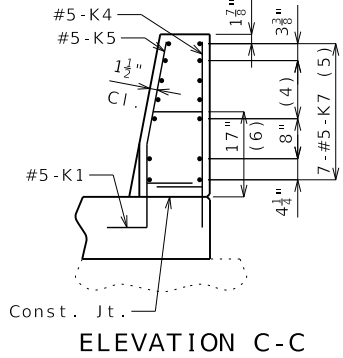
General Notes:

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 H Barrier.

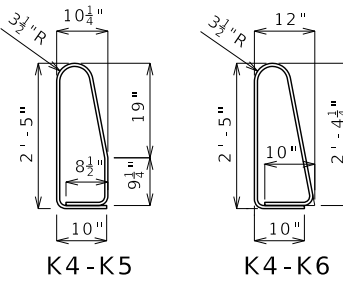
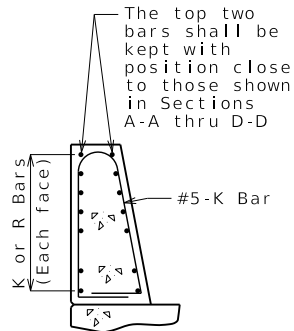
Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2".
Use a minimum lap of 2'-6" between K7 bars and R bars.

TYPE H BARRIER AT END BENTS
(Left barrier shown, right barrier similar)



SECTION D-D



PERMISSIBLE ALTERNATE SHAPES
(Other K bars not shown for clarity)

The K4-K5 and K4-K6 bar combination may be furnished as one bar as shown, at the contractor's option.

All dimensions are out to out.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED	
10/6/2025	
ROUTE	STATE
FF	MO
DISTRICT	SHEET NO.
BR	8
COUNTY	
PUTNAM	
JOB NO.	
JNW0014	
CONTRACT ID.	

PROJECT NO.	
BRIDGE NO.	
P08332	

DESCRIPTION	DATE

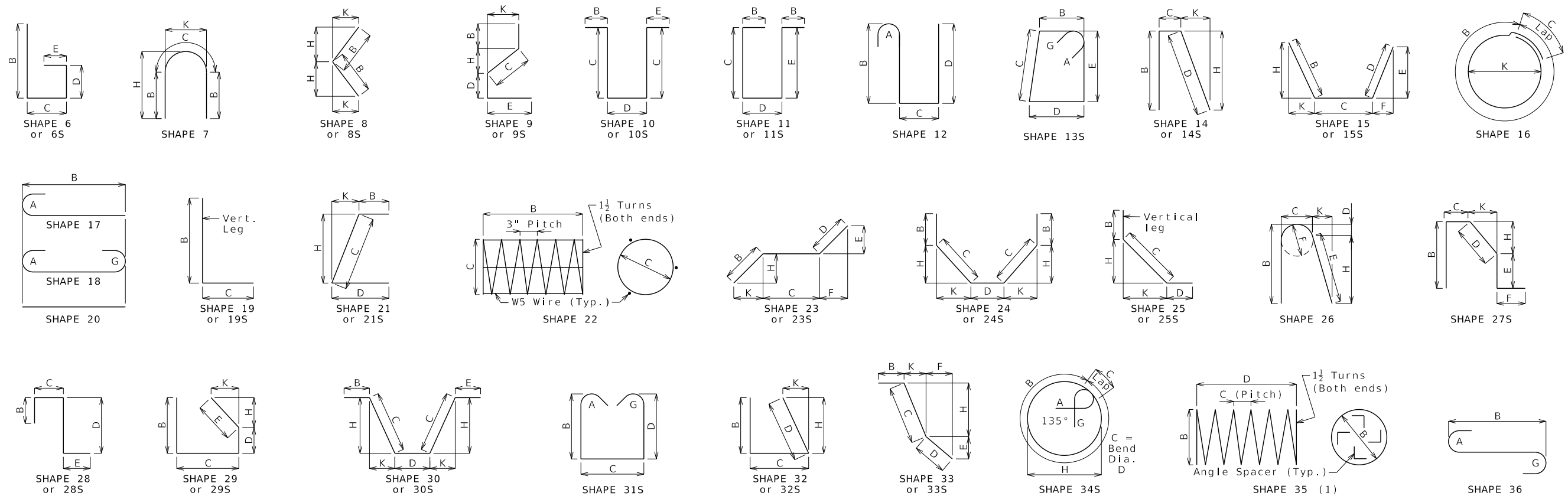
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

GARVER, LLC
7509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090





Finished Bend Dimensions D and Hook Dimensions

Standard Pin Bend Shapes

Size	Case	D	A or G		J
			90°	180°	180°
#4	1	3"	8"	6"	4"
#5	1	3¾"	10"	7"	5"
#6	1	4½"	12"	8¼"	6"
#7	2	5¼"	14"	9¾"	7"
	3	7"	15"	11½"	8¼"
#8	2	6"	16"	11"	8"
	3	8"	17"	13¼"	10"
#9	1	9½"	19½"	15½"	11¾"
#10	1	10¾"	22"	17½"	13¼"
#11	1	12"	24½"	19½"	14⅞"
#14	1	18¼"	31¼"	27½"	21⅝"
#18	1	24"	41½"	36¼"	28½"

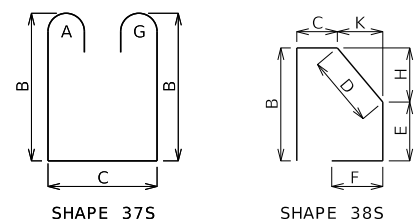
Stirrup Pin Bend Shapes (S)

Size	Case	D	A or G			H	J
			90°	135°	180°	135°	180°
#4	2	2"	4½"	4½"	5"	2⅞"	3"
	3	3"	5"	5¼"	6"	3"	4"
#5	2	2½"	5¾"	5¾"	5¾"	3⅝"	3¾"
	3	3¾"	6¼"	6¼"	7"	3⅞"	5"
#6	1	4½"	12"	7¾"	8¼"	4⅝"	6"

Applicable for all grades of steel.

Case 1 applies to all reinforcement. Case 2 applies to all reinforcement except for galvanized bars. Case 3 applies to galvanized bars only.

6d for #4 & #5,
12d for #6



BENDING DIAGRAMS

	Reinforcing Steel Totals (Pounds)								
	Size	Substructure		Superstructure				Entire Bridge	
		Plain	Epoxy	Slab		Barrier	Slip Form	Plain	Epoxy
				Plain	Epoxy				
By Size	W5	0	0	0	0	0	0	0	0
	4	0	0	0	62	0	0	0	62
	5	0	0	0	15,091	6,288	501	0	21,880
	6	0	0	0	14,779	0	0	0	14,779
	7	0	0	0	0	0	0	0	0
	8	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0
	14	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	
By Type	0	0	0	29,932	6,288	501	0	36,721	

All superstructure reinforcing steel shall be epoxy coated unless otherwise specified.

All dimensions are out to out.

Shapes ending with an S shall be bent in accordance with stirrup pin bend shapes.

Unless otherwise noted,
finished bending diameter
D is the same for all
bends of a shape.

(1) Shall be a deformed or plain spiral bar or wire.

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.



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY

DATE PREPARED
10/6/2025

ROUTE	STATE
FF	MO

DISTRICT BB	SHEET NO. 10
----------------	-----------------

COUNTY
PLUTNAM

JOB NO.
INW0014

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
D08333[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

GARVER, LLC.
77509 NW TIFFANY SPRINGS
PARKWAY, SUITE 200
KANSAS CITY, MO 64153
PHONE: (816) 298-6465
CERTIFICATE OF AUTHORITY
NO. 2008013090



IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED:

