



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/8/2026

ROUTE STATE
US - 61 MO

DISTRICT SHEET NO.
BR A9685-5

COUNTY
ST. CHARLES

JOB NO.
JST0020

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9685

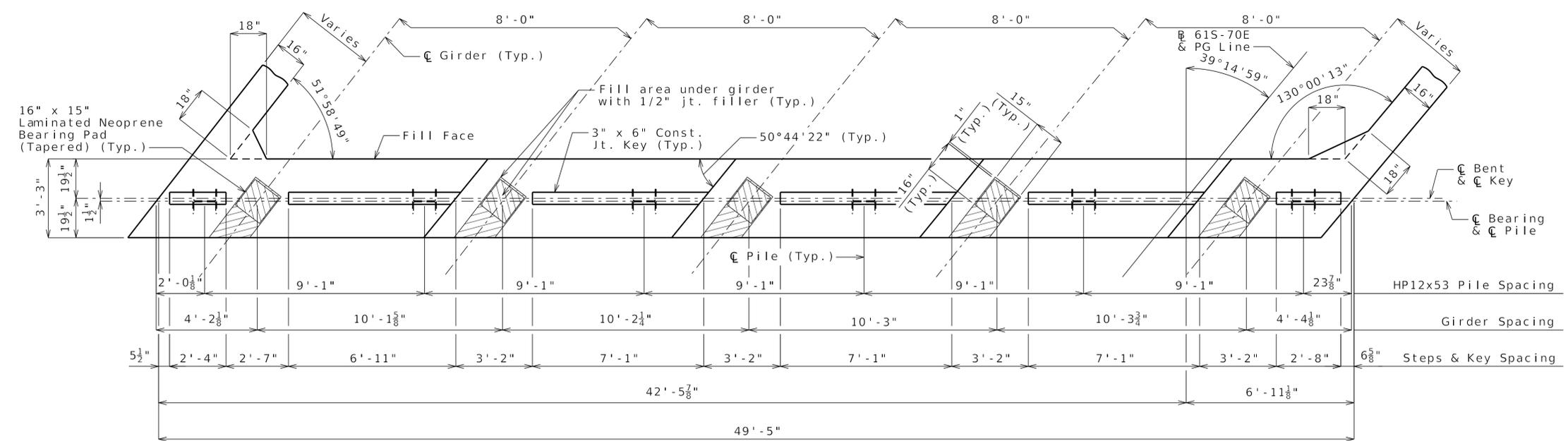
DESCRIPTION	DATE

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

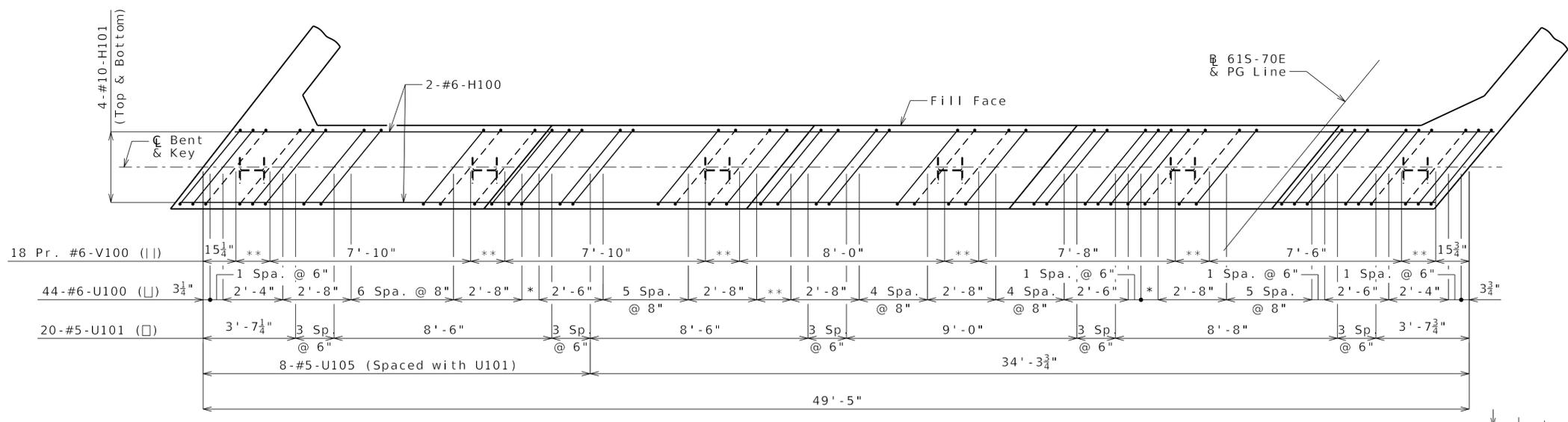


HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
CERTIFICATE OF AUTHORITY
NO. 001270

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 872-03318
FAX 872-03319
WWW.BARTLETTWEST.COM

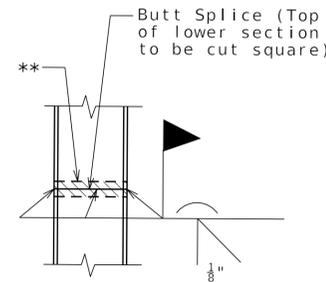


PLAN OF BEAM

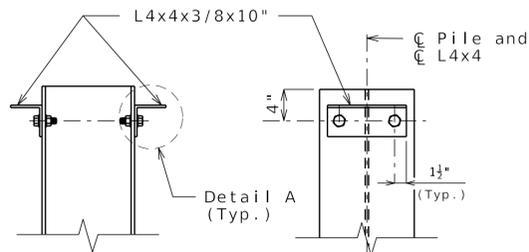


PLAN OF BEAM SHOWING REINFORCEMENT
Keys not shown for clarity.

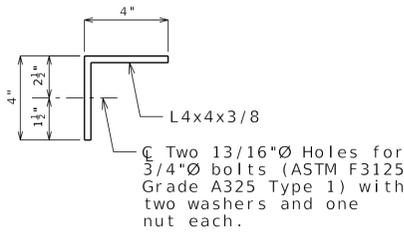
* 1 Spa. @ 8"
** 2 Spa. @ 8"



STEEL PILE SPLICE
(If required)

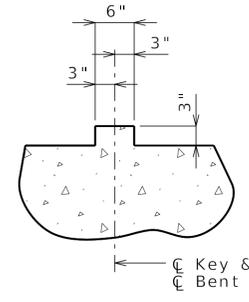


DETAILS OF HP PILE ANCHORS

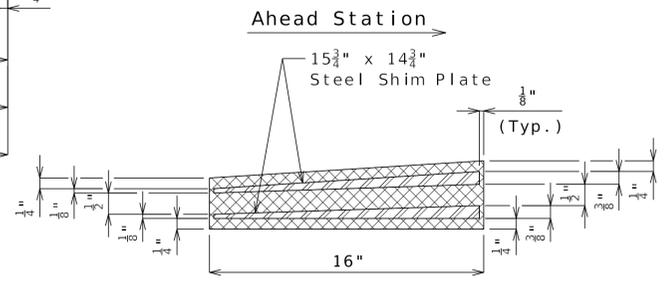


DETAIL A

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



SECTION THRU KEY



SECTION THRU LAMINATED NEOPRENE BEARING PAD (TAPERED)
(5 Required)

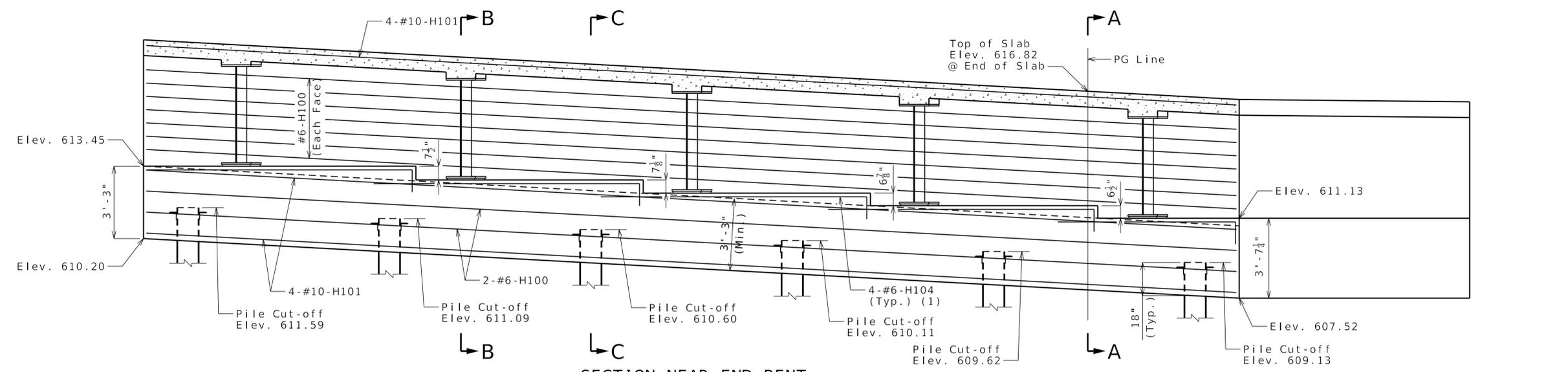
General Notes:

Work this sheet with Sheets No. 6 and 7.

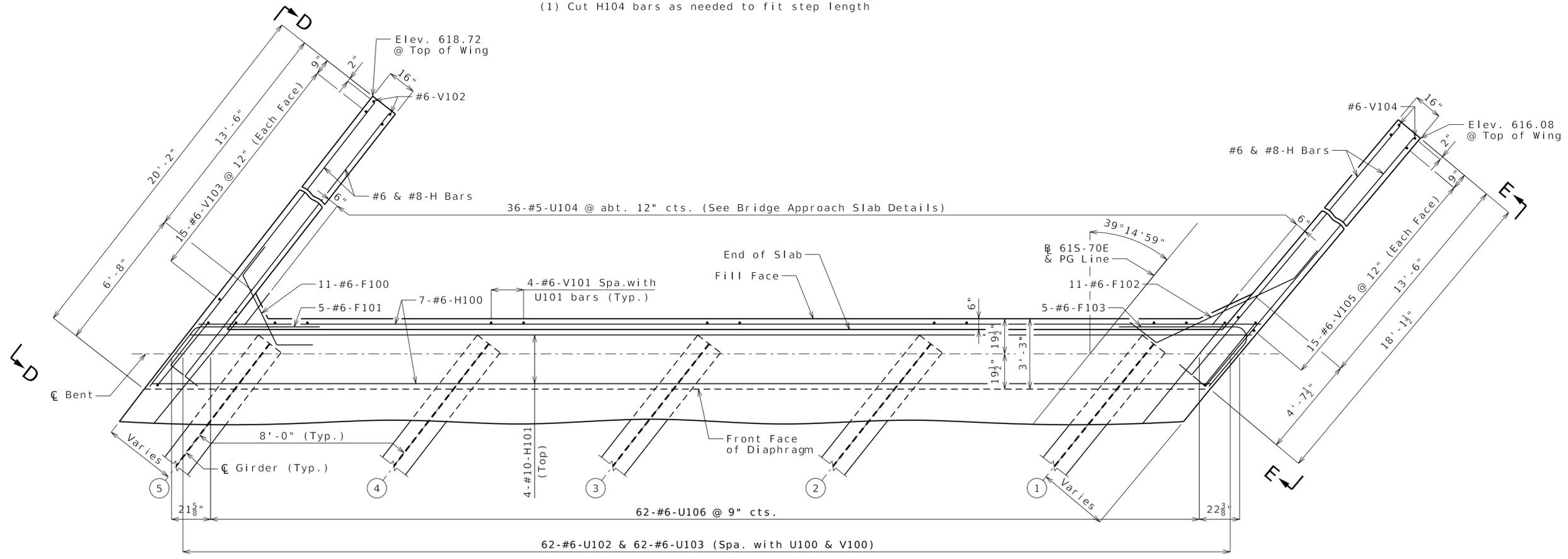
All U bars and pairs of V bars shall be placed parallel to skewed steps.

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

DETAILS OF END BENT NO. 1



SECTION NEAR END BENT
(1) Cut H104 bars as needed to fit step length



PART PLAN
Keys not shown for clarity.

- General Notes:**
- Work this sheet with Sheets No. 5 and 7.
 - For Sections A-A, B-B, & C-C and Elevations D-D, and E-E see Sheet No. 7.
 - The #6-F100 and #6-F102 bars shall be bent in the field to clear girders.
 - The U bars shall be placed parallel to skewed steps.
 - All concrete in the end bent above top of beam and below top of slab shall be Class B-2.
 - For details of vertical drain at end bents, see Sheet No. 8.
 - For details of bridge approach slab, see Sheet No. 32.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/8/2026	
ROUTE US-61	STATE MO
DISTRICT BR	SHEET NO. A9685-6
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9685	

DATE	DESCRIPTION

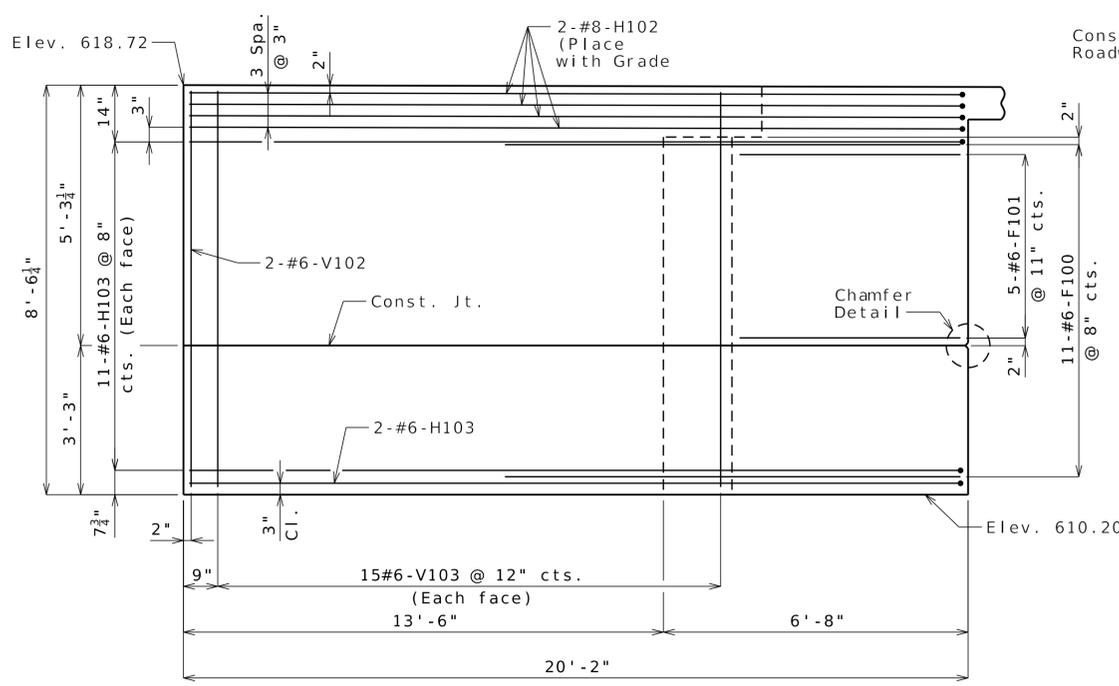
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

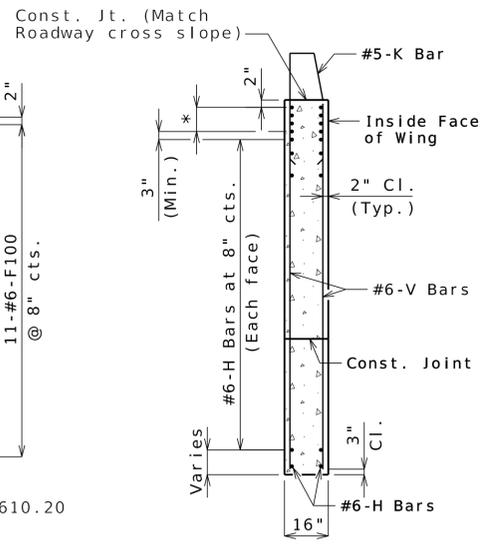


HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
CERTIFICATE OF AUTHORITY NO. 001270

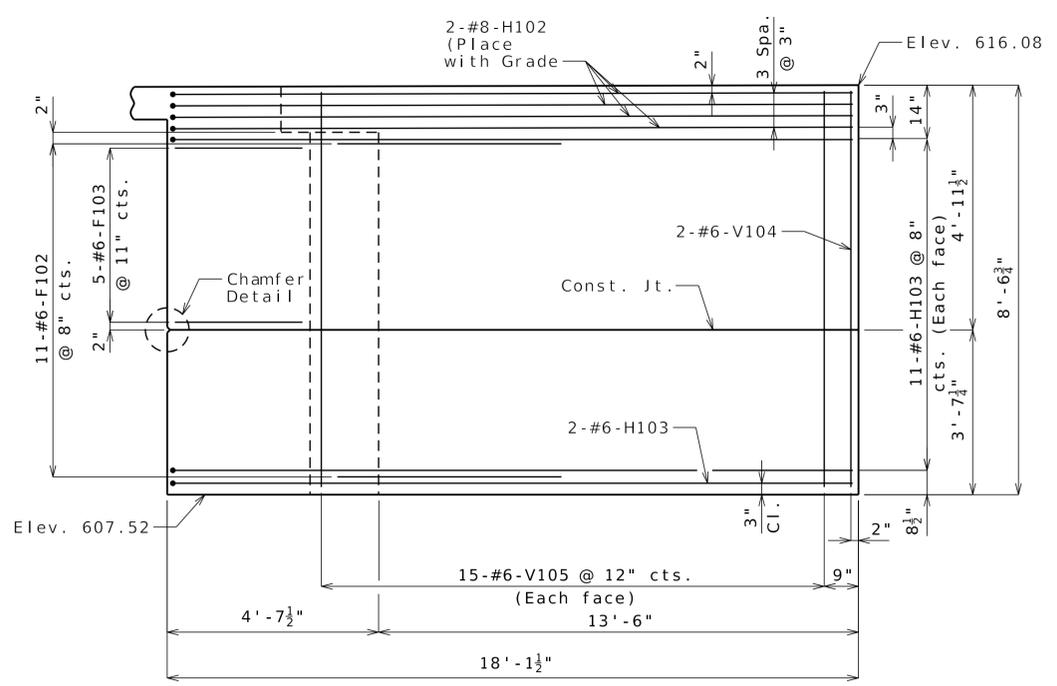
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE: 872-033181
CERTIFICATE OF AUTHORITY - ENGINEERING
WWW.BARTLETTWEST.COM



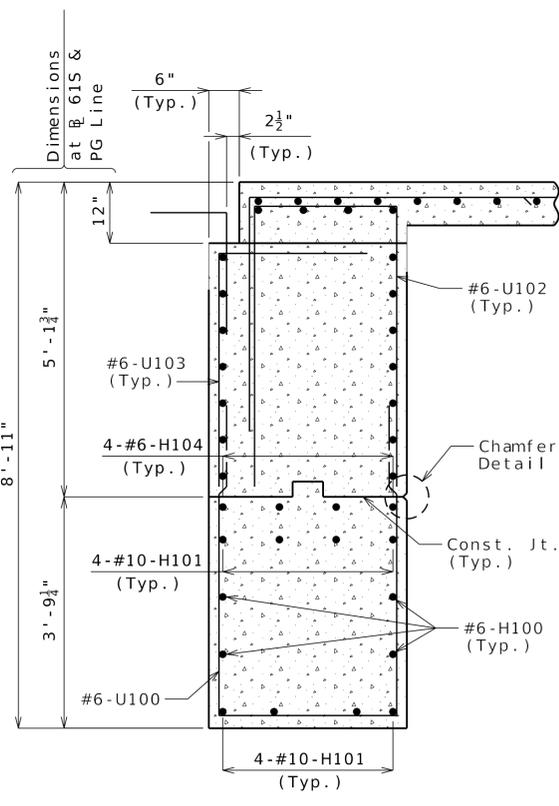
ELEVATION D-D



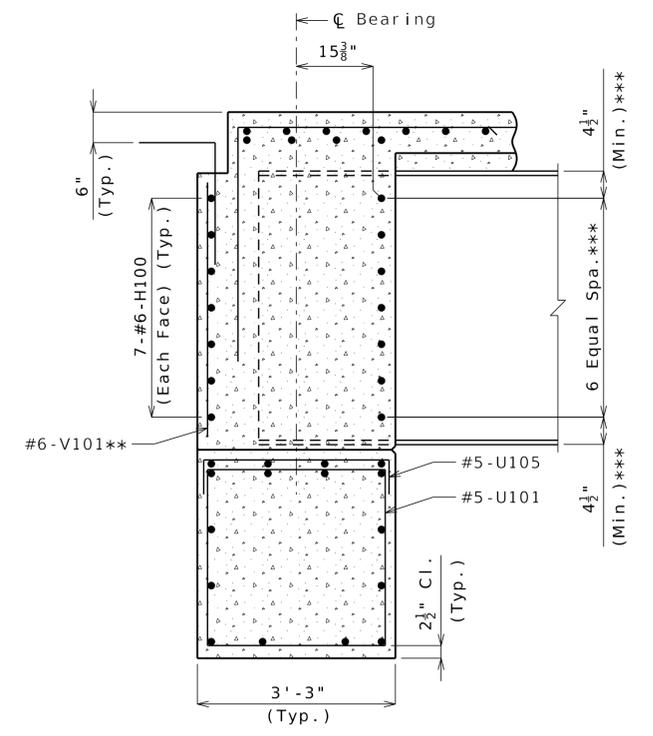
TYPICAL SECTION THRU WING
* #8-H Bars at 3" cts. (Each face) (Place with grade)



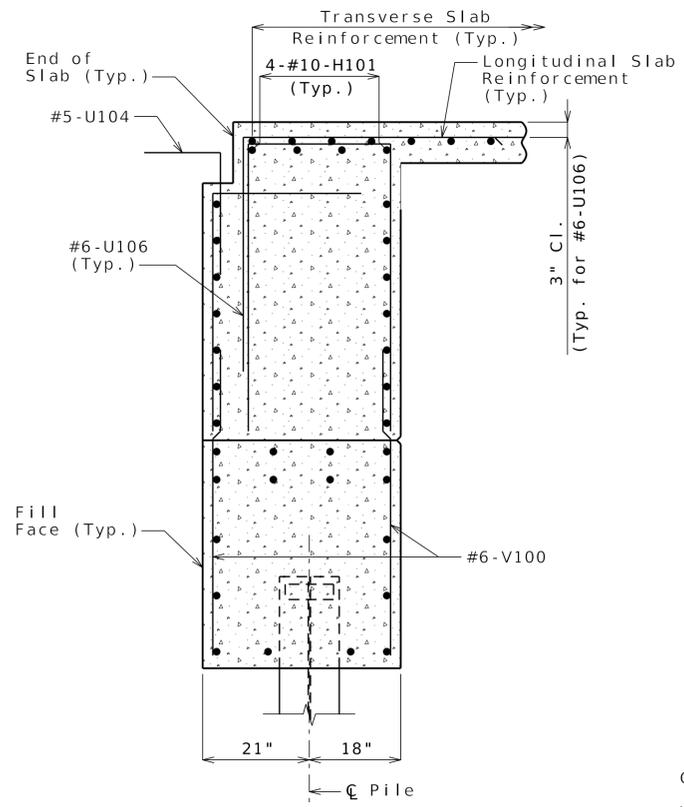
ELEVATION E-E



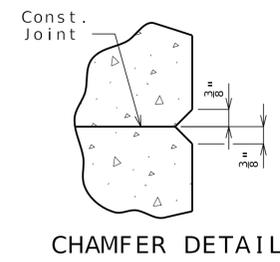
SECTION A-A



SECTION B-B



SECTION C-C



CHAMFER DETAIL

** Cut bars in field as needed
*** See superstructure detail for plate girder hole locations

General Notes:
Work this sheet with Sheets No. 5 and 6.
For reinforcement of the barrier, see Sheets No. 30 and 31.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/8/2026	
ROUTE US-61	STATE MO
DISTRICT BR	SHEET NO. A9685-7
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9685	

DATE	DESCRIPTION

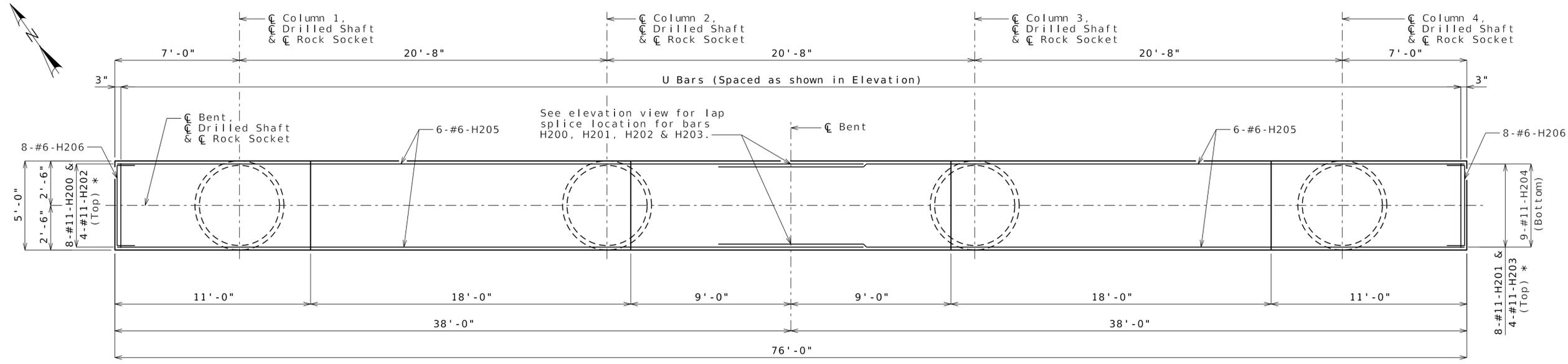
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



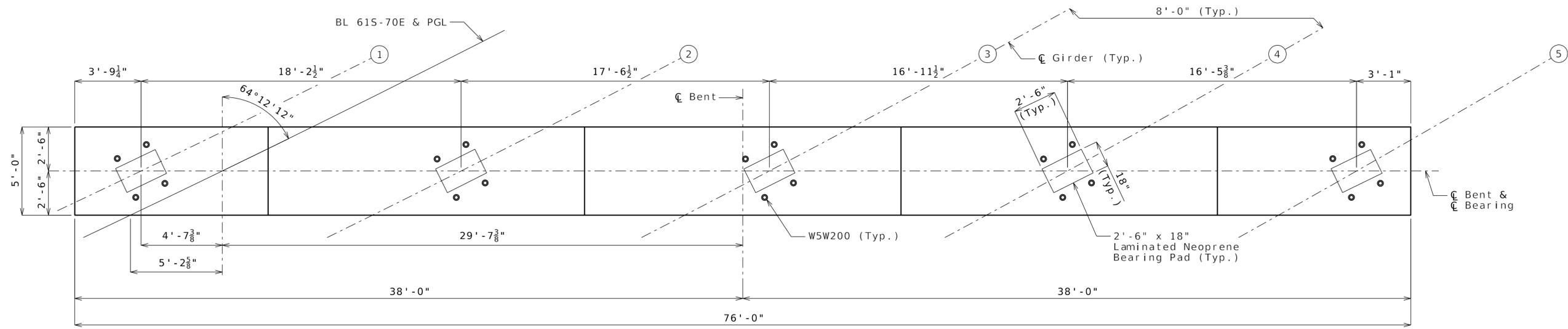
HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
CERTIFICATE OF AUTHORITY NO. 001270

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE: 872-603-8181
WWW.BARTLETTWEST.COM



PLAN SHOWING REINFORCEMENT

* See top longitudinal reinforcement layout in Detail B



PLAN OF BEAM

General Notes:
Work this sheet with Sheets No. 9 and 11.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/8/2026	
ROUTE US-61	STATE MO
DISTRICT BR	SHEET NO. A9685-10
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9685	

DATE	DESCRIPTION

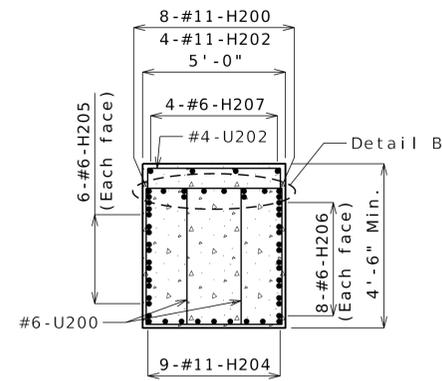
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

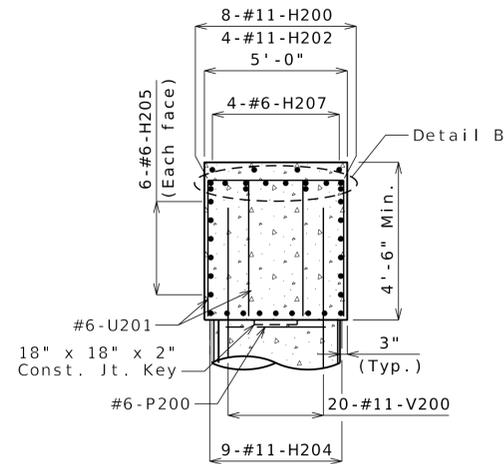


HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
CERTIFICATE OF AUTHORITY
NO. 001270

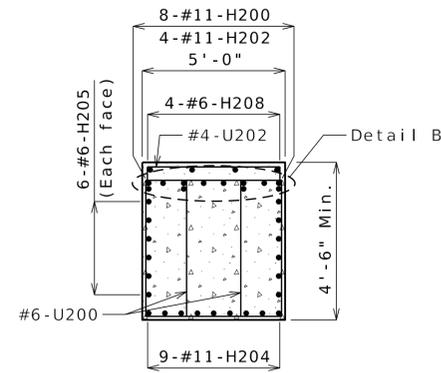
Bartlett & West
601 MONROE ST., SUITE 201 - JEFFERSON CITY, MO 65101
PHONE: 872-603-5181
FAX: 872-603-5182
WWW.BARTLETTWEST.COM



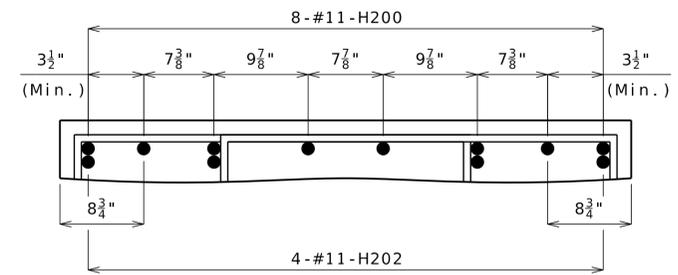
SECTION A-A



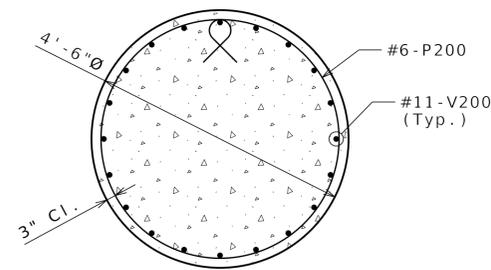
SECTION B-B



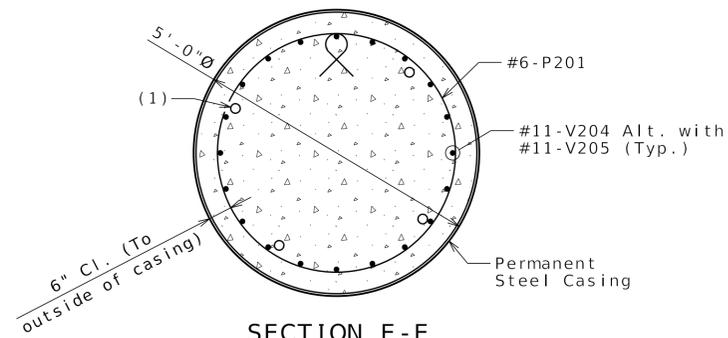
SECTION C-C



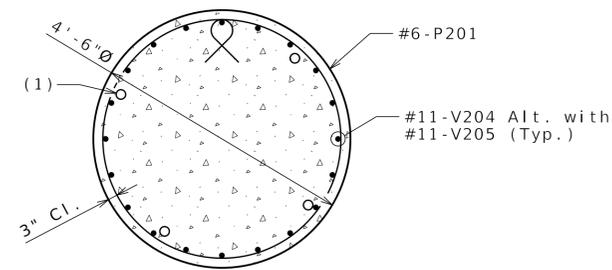
DETAIL B



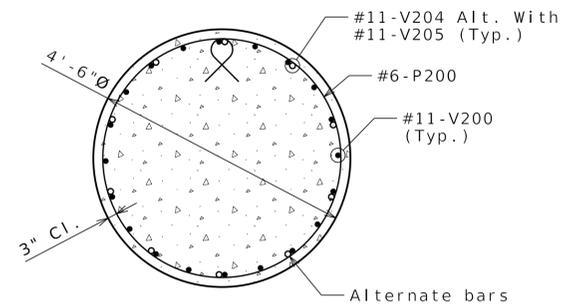
SECTION D-D



SECTION E-E

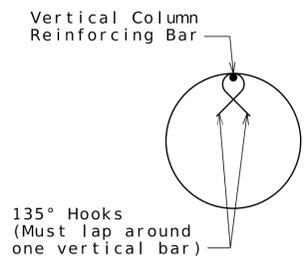


SECTION F-F



SECTION G-G

(1) 2"Ø Steel Pipe for sonic logging testing (4 each shaft)



135° Hooks
(Must lap around one vertical bar)

**SEISMIC STIRRUP BAR
(#6-P200 & P201)**

Note: Seismic stirrups hooks shall be staggered around the column at about one-third of the hoop circumference.

General Notes:
Work this sheet with Sheets No. 9 and 10.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/8/2026

ROUTE
US-61

STATE
MO

DISTRICT
BR

SHEET NO.
A9685-11

COUNTY
ST. CHARLES

JOB NO.
JST0020

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9685

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

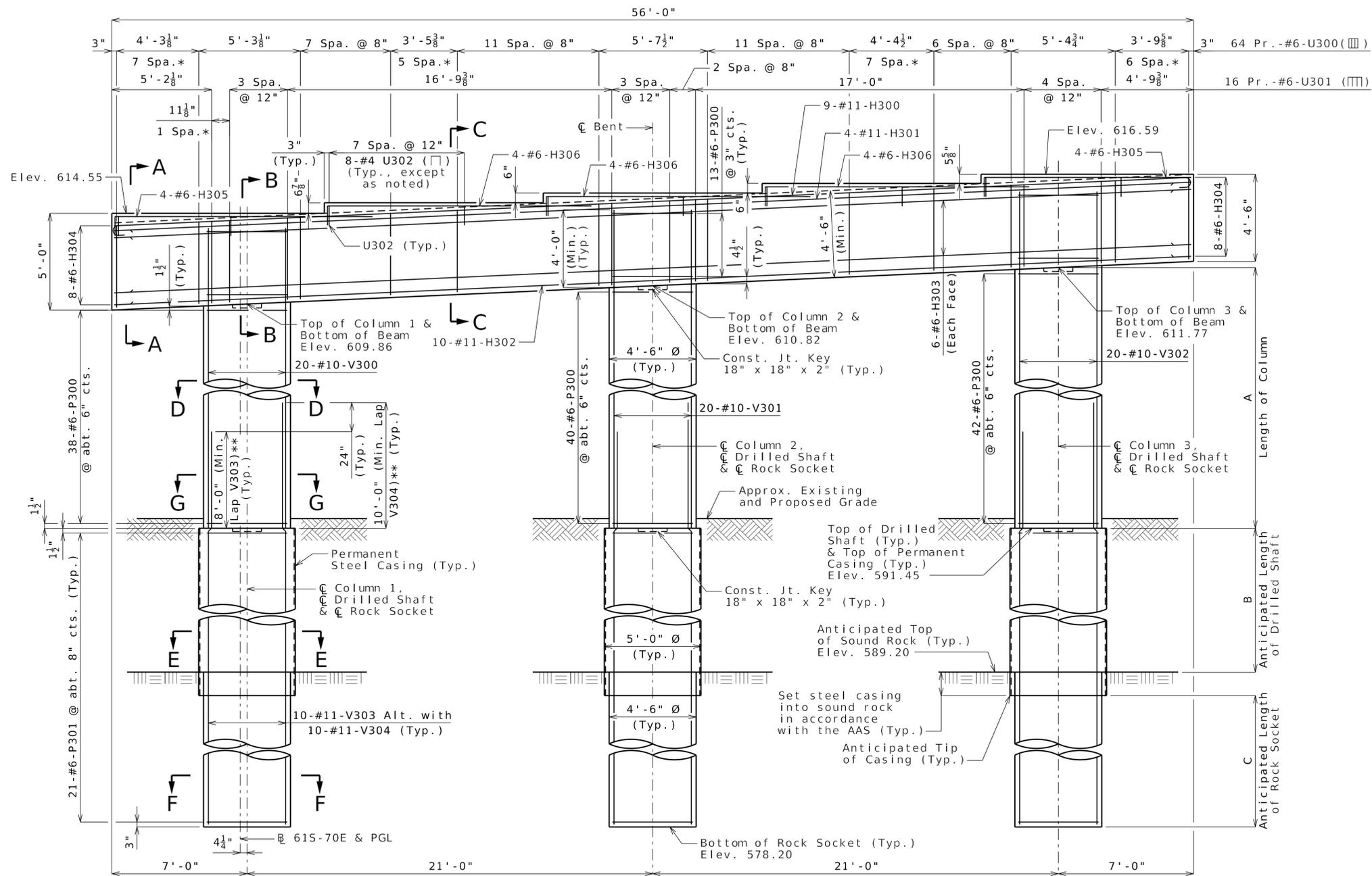
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
CERTIFICATE OF AUTHORITY
NO. 001270

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE: 872-603-5181
CERTIFICATE OF AUTHORITY - ENGINEERING
WWW.BARTLETTWEST.COM

* (See Detail A for stirrup spacing)



ELEVATION

Beam keys not shown for clarity.

** Stagger alternating V304 and V305 splice by 24". For odd number of bars, two bars in each column may splice at the same location. Cut bars as needed.

General Notes:

Drilled shafts shall be constructed and inspected in accordance with the Bridge Geotechnical Memo and the project Drilled Shaft Construction AAS.

Work this sheet with Sheets No. 13 and 14.

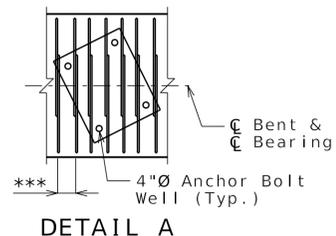
Thickness of permanent steel casing shall be in accordance with Drilled Shaft Construction AAS.

An additional 4 feet has been added to V-bar lengths and additional 18-#6-P301 bars have been added for possible change in drilled shaft or rock socket length. The additional V-bar length shall be cut off or included in the reinforcement lap if not required. The P bars shall be spaced similarly to that shown in Elevation, if required, or a lesser spacing if not required but not less than 6-inch centers.

Sonic logging testing shall be performed on all drilled shafts and rock sockets.

The tip of casing shall not extend into the rock socket elevation range reported in the Foundation Data table without approval by the engineer.

All reinforcing bars in the tops of substructure beams or caps shall be spaced to clear anchor bolt wells for bearings by at least 1/2".



*** At bearings, space stirrups @ 6" Min. and 8 3/4" Max. (12" Max. over columns) and clear the anchor bolt wells in accordance with Specification.

Dimension Variable Table			
Column	A	B	C
1	18'-5"	2'-3"	10'-0"
2	19'-4 3/8"	2'-3"	10'-0"
3	20'-3 3/8"	2'-3"	10'-0"

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

Sheet 12 of 40

DETAILS OF INTERMEDIATE BENT NO. 3



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/8/2026

ROUTE STATE
US-61 MO

DISTRICT SHEET NO.
BR A9685-12

COUNTY
ST. CHARLES

JOB NO.
JST0020

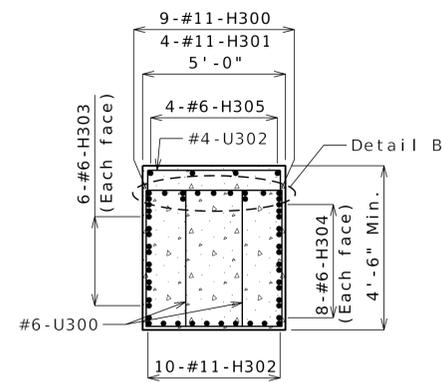
CONTRACT ID.

PROJECT NO.

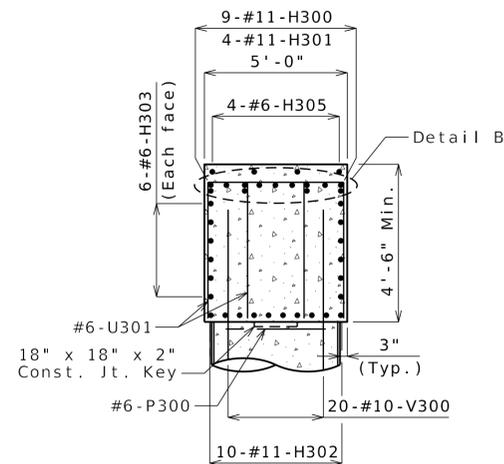
BRIDGE NO.
A9685

DESCRIPTION

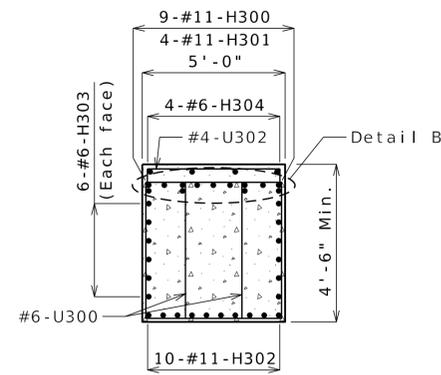
DATE



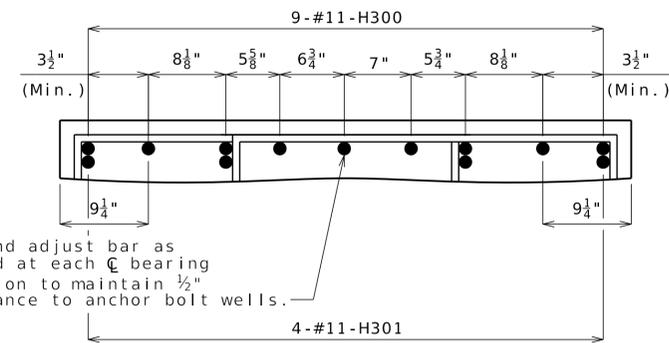
SECTION A-A



SECTION B-B

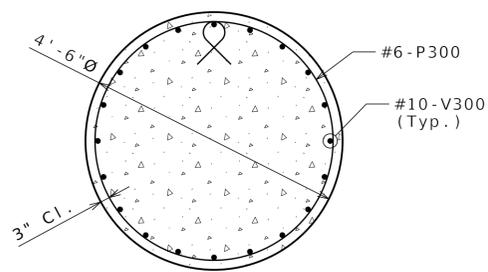


SECTION C-C

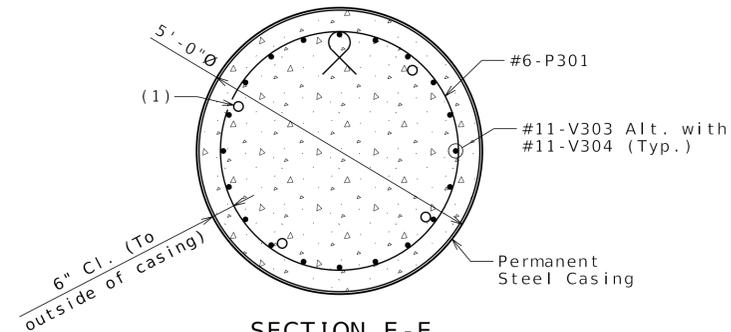


DETAIL B

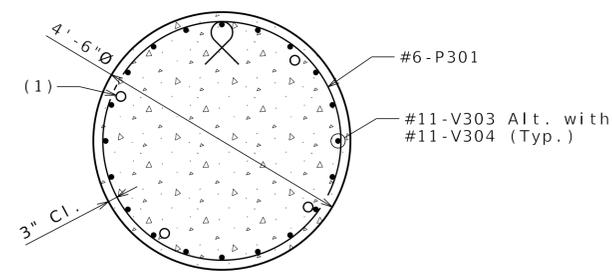
Cut and adjust bar as needed at each bearing location to maintain 1/2" clearance to anchor bolt wells.



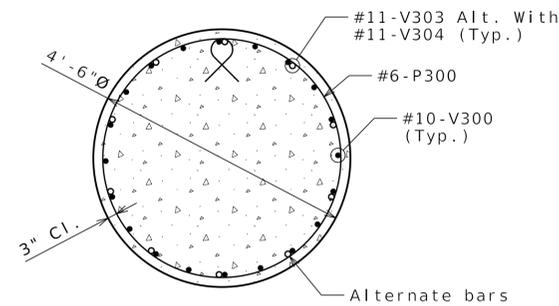
SECTION D-D



SECTION E-E

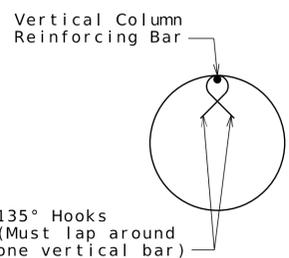


SECTION F-F



SECTION G-G

(1) 2"Ø Steel Pipe for sonic logging testing (4 each shaft)



SEISMIC STIRRUP BAR (#6-P300 & P301)

Note: Seismic stirrups hooks shall be staggered around the column at about one-third of the hoop circumference.

General Notes:
Work this sheet with Sheets No. 12 and 13.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/8/2026

ROUTE
US-61

STATE
MO

DISTRICT
BR

SHEET NO.
A9685-14

COUNTY
ST. CHARLES

JOB NO.
JST0020

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9685

DESCRIPTION

DATE

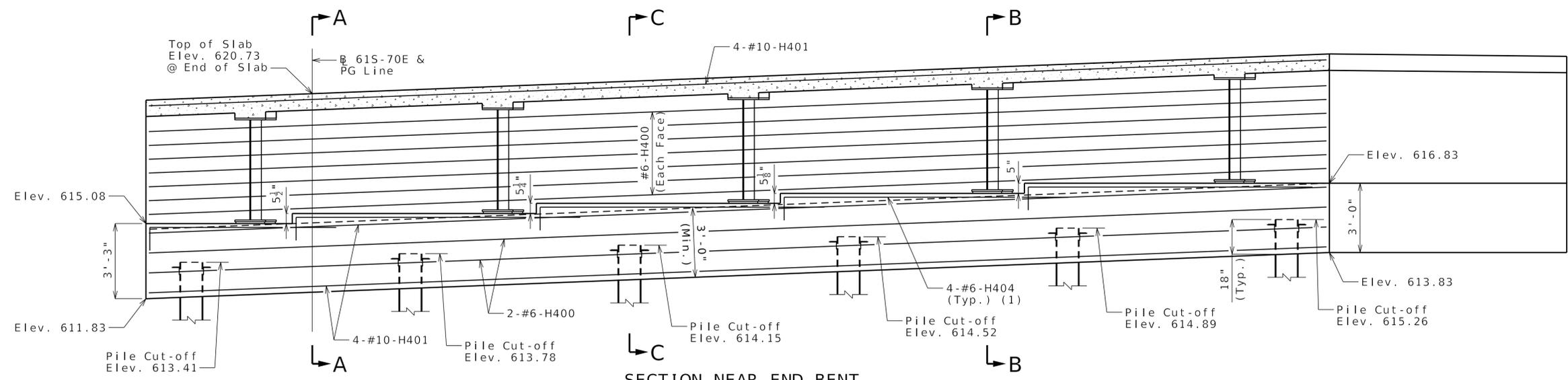
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

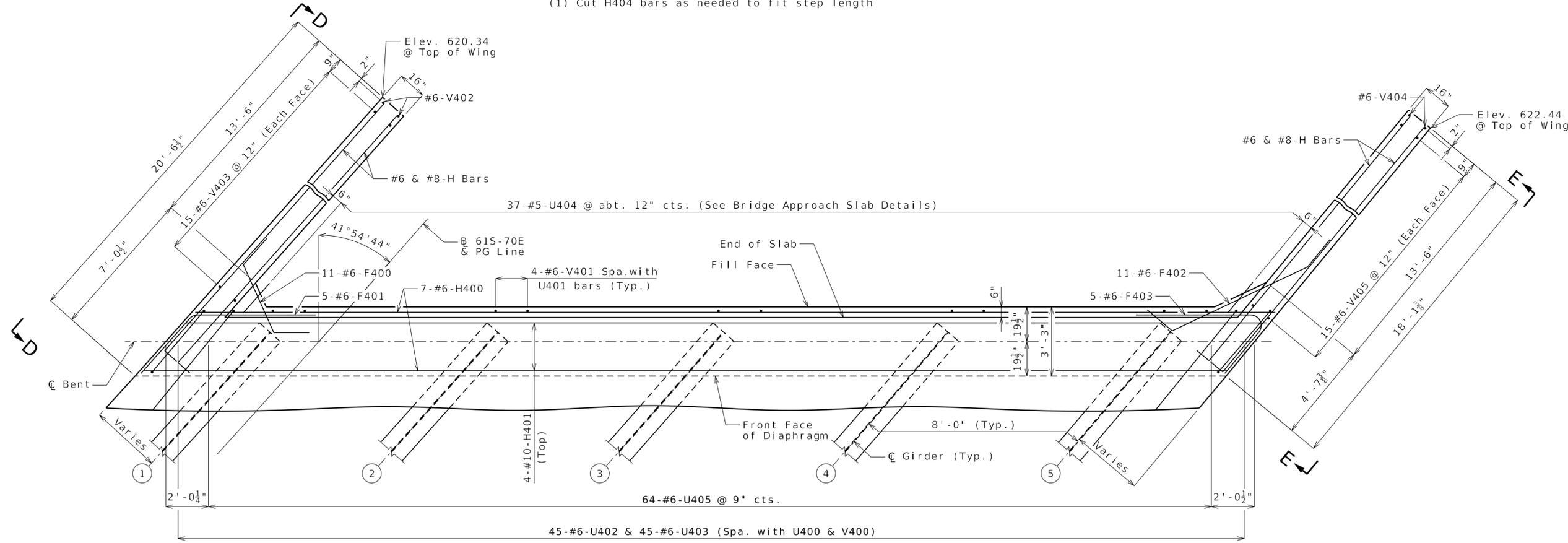


715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
CERTIFICATE OF AUTHORITY
NO. 001270

Bartlett & West
ENGINEERING
WWW.BARTLETTWEST.COM



SECTION NEAR END BENT
(1) Cut H404 bars as needed to fit step length



PART PLAN
Keys not shown for clarity.

General Notes:

- Work this sheet with Sheets No. 15 and 17.
- For Sections A-A, B-B, & C-C and Elevations D-D, and E-E see Sheet No. 17.
- The #6-F400 and #6-F402 bars shall be bent in the field to clear girders.
- The U bars shall be placed parallel to skewed steps.
- All concrete in the end bent above top of beam and below top of slab shall be Class B-2.

- For details of vertical drain at end bents, see Sheet No. 8.
- For details of bridge approach slab, see Sheet No. 32.

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

Sheet 16 of 40

DETAILS OF END BENT NO. 4



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED 1/8/2026	
ROUTE US-61	STATE MO
DISTRICT BR	SHEET NO. A9685-16
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9685	

DATE	DESCRIPTION

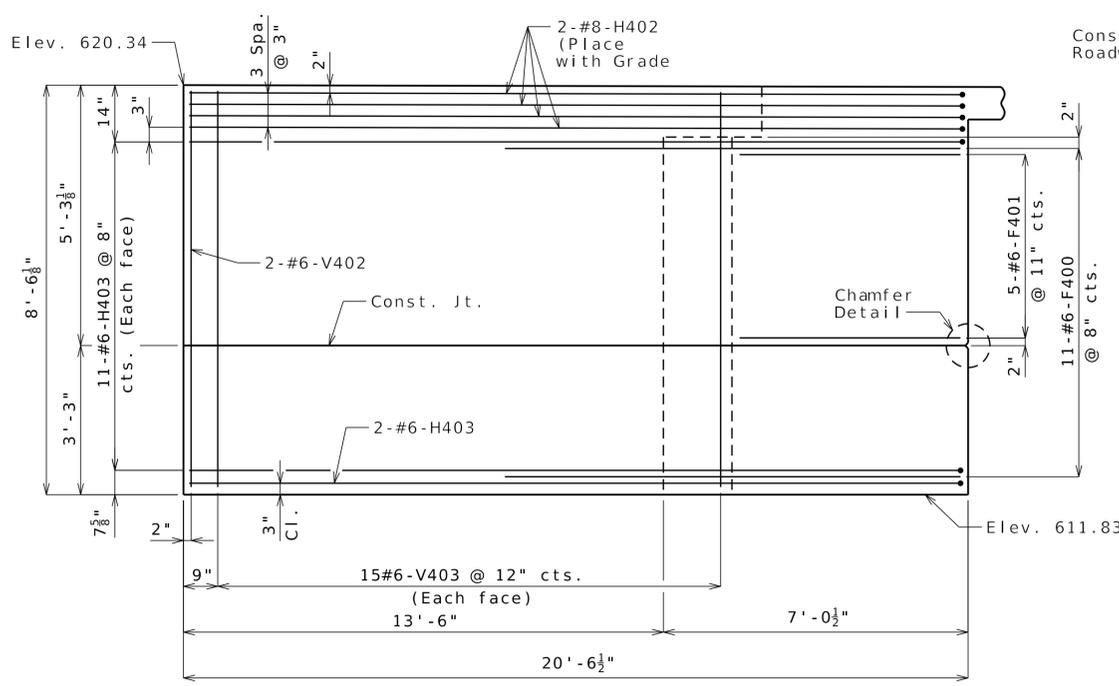
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

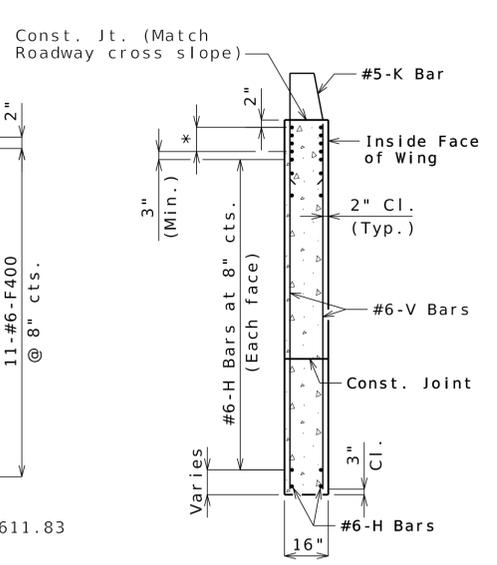


715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
CERTIFICATE OF AUTHORITY
NO. 001270

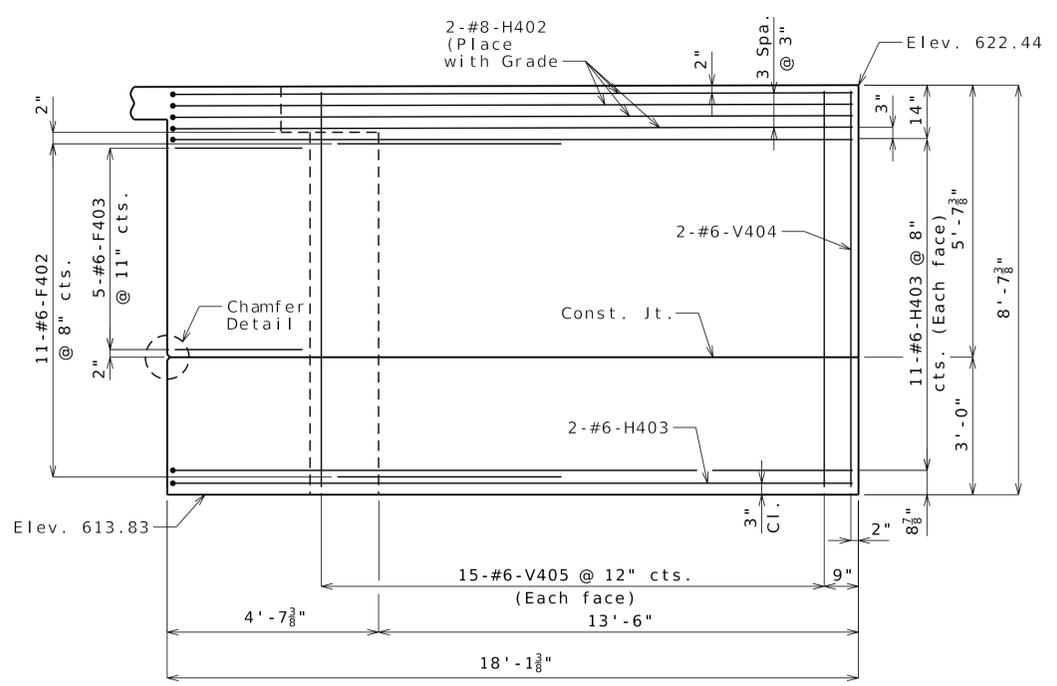
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 8726033181
CERTIFICATE OF AUTHORITY - ENGINEERING
WWW.BARTLETTWEST.COM



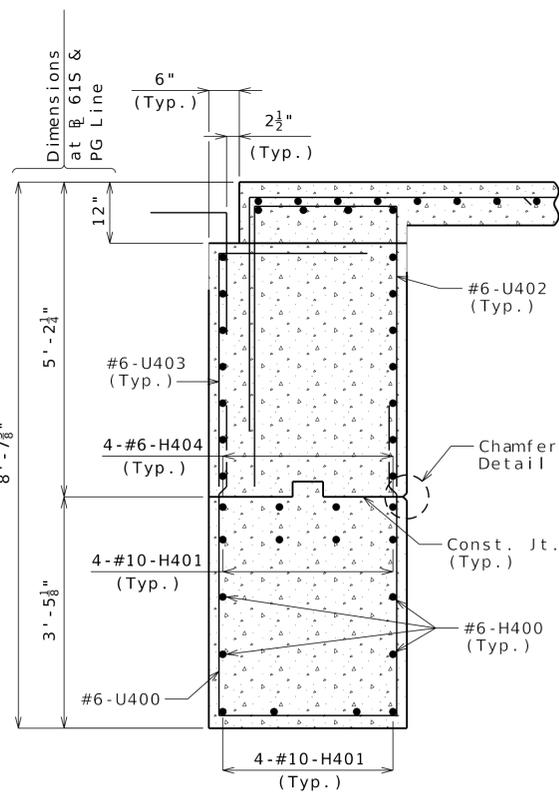
ELEVATION D-D



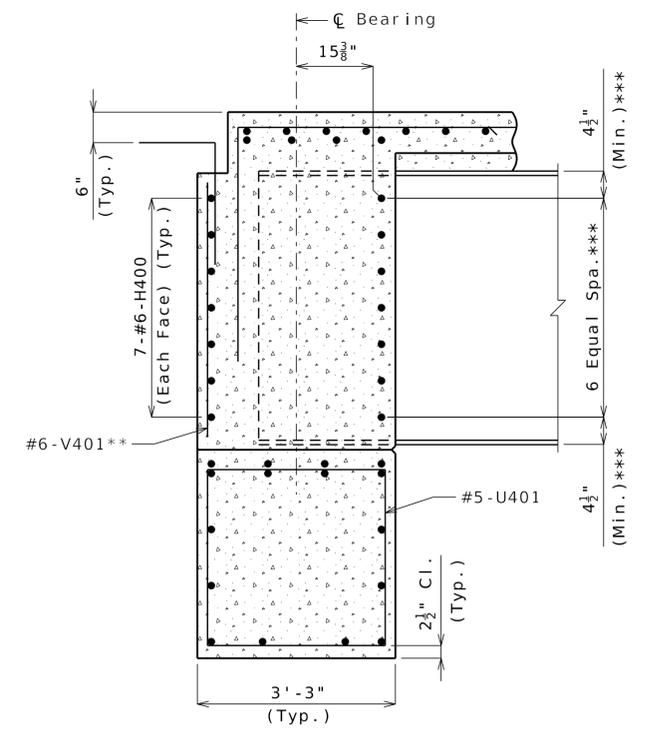
TYPICAL SECTION THRU WING
* #8-H Bars at 3" cts. (Each face) (Place with grade)



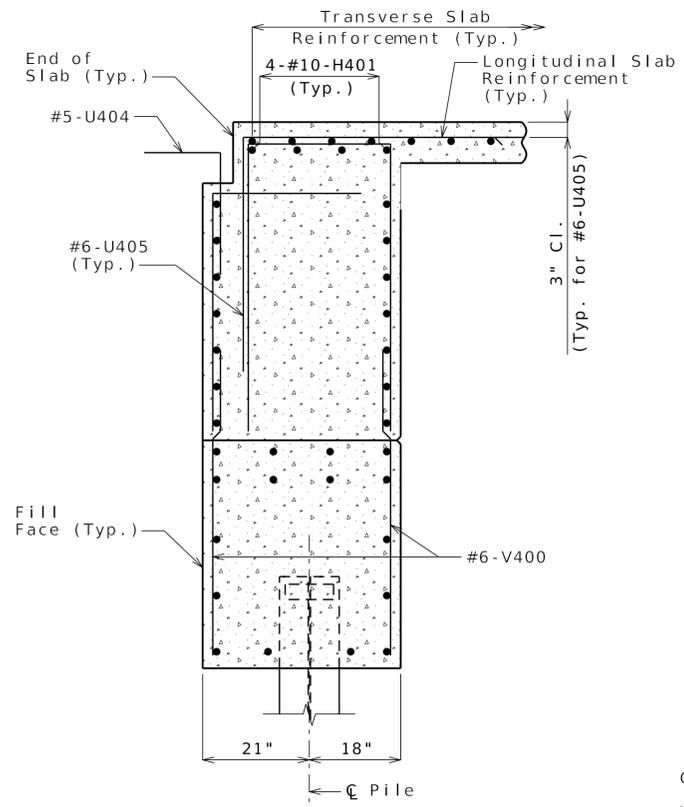
ELEVATION E-E



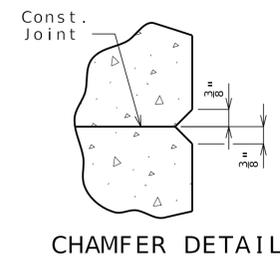
SECTION A-A



SECTION B-B



SECTION C-C



CHAMFER DETAIL

** Cut bars in field as needed
*** See superstructure detail for plate girder hole locations

General Notes:
Work this sheet with Sheets No. 15 and 16.
For reinforcement of the barrier, see Sheets No. 30 and 31.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/8/2026	
ROUTE US-61	STATE MO
DISTRICT BR	SHEET NO. A9685-17
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9685	

DATE	DESCRIPTION

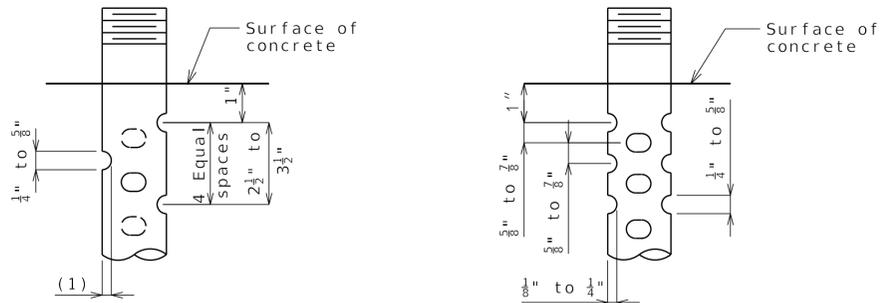
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
CERTIFICATE OF AUTHORITY NO. 001270

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE: 872-603-1818
WWW.BARTLETTWEST.COM

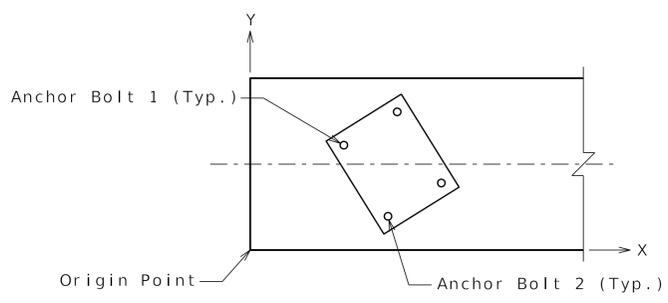


DETAIL FOR 3/4"Ø THRU 2 1/2"Ø ANCHOR BOLTS

OPTIONAL DETAIL FOR 1 3/8"Ø THRU 2 1/2"Ø ANCHOR BOLTS

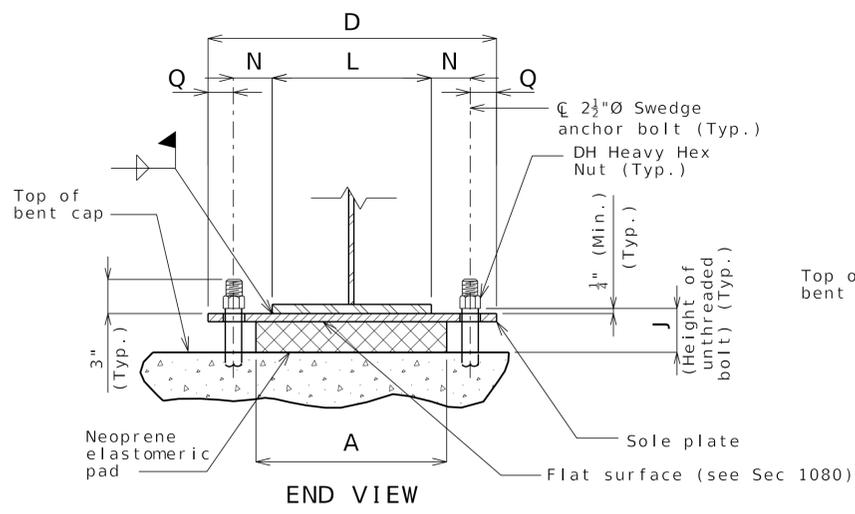
SWEDGE ANCHOR BOLT DETAILS

- (1) 3/8" for 3/4"Ø thru 1 1/4"Ø anchor bolts
- 1/2" to 3/4" for 1 3/8"Ø thru 2 1/2"Ø anchor bolts

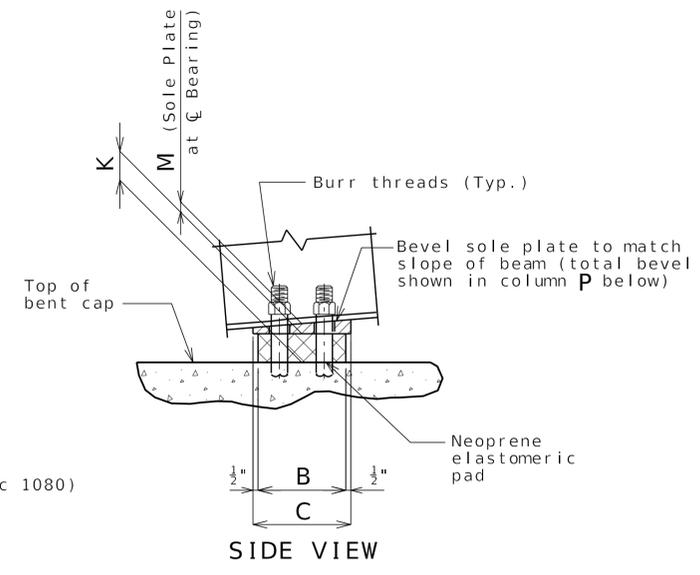


ANCHOR BOLT SETTING PLAN
(Looking Upstation)

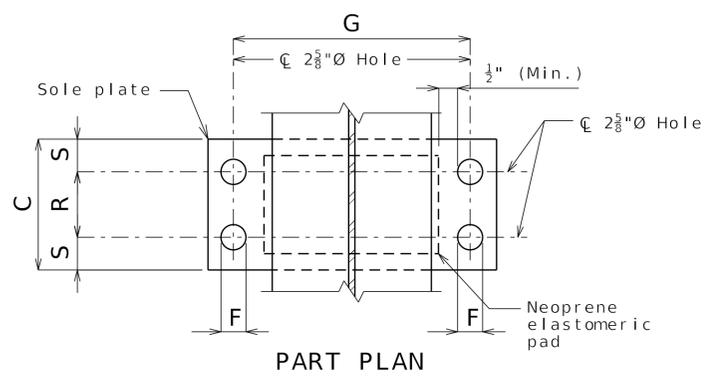
		Anchor Bolt 1		Anchor Bolt 2	
		X	Y	X	Y
Bent 2	Girder 1	2'-5"	3'-2 1/4"	3'-5 3/8"	12"
	Girder 2	20'-7 1/2"	3'-2 1/4"	21'-8 3/8"	12"
	Girder 3	38'-1 1/2"	3'-1 1/4"	39'-3 1/4"	12"
	Girder 4	55'-1"	3'-1 1/4"	56'-3"	11 1/2"
	Girder 5	71'-6 1/4"	3'-1 1/4"	72'-8 3/8"	11 1/2"
Bent 3	Girder 1	2'-0 3/8"	2'-9 3/8"	3'-5 3/8"	12 1/4"
	Girder 2	14'-8 1/4"	2'-9"	16'-1"	13"
	Girder 3	27'-1 1/4"	2'-8 3/4"	28'-6 3/8"	13"
	Girder 4	39'-5 1/2"	2'-8 3/4"	40'-10 3/4"	13"
	Girder 5	51'-6 3/8"	2'-8 3/4"	53'-0 3/4"	12 1/4"



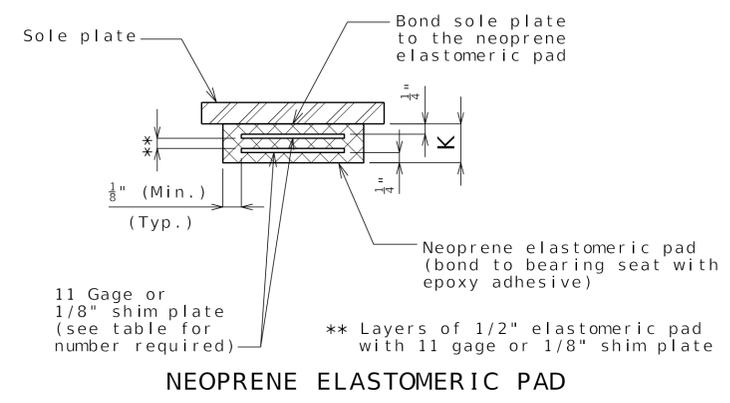
END VIEW



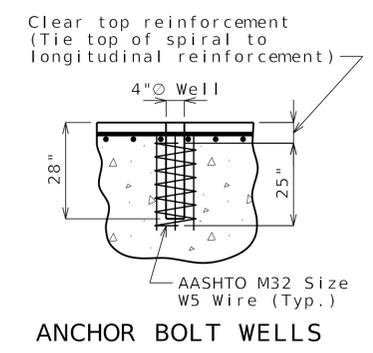
SIDE VIEW



PART PLAN



NEOPRENE ELASTOMERIC PAD



ANCHOR BOLT WELLS

FIXED BEARINGS																	
BENT NO.	A	B	C	D	F	G	J	K	L	M	N	P	Q	R	S	NUMBER OF SHIM PLATES *	NUMBER REQUIRED
Bent 2 (Girder 1)	18"	2'-6"	2'-7"	3'-2 1/4"	2 3/8"	29 1/4"	7 1/8"	5"	22"	1 1/2"	3 3/8"	1 1/2"	4 1/2"	22"	4 1/2"	8	1
Bent 2 (Girder 2-4)	18"	2'-6"	2'-7"	3'-2 1/4"	2 3/8"	29 1/4"	7 1/8"	5"	22"	1 1/2"	3 3/8"	1 1/2"	4 1/2"	22"	4 1/2"	8	3
Bent 2 (Girder 5)	18"	2'-6"	2'-7"	3'-2 1/4"	2 3/8"	29 1/4"	7"	5"	24"	1 1/2"	2 3/8"	1 1/2"	4 1/2"	22"	4 1/2"	8	1
Bent 3 (Girder 1 & 5)	18"	2'-6"	2'-7"	3'-0 1/4"	2 3/8"	27 1/4"	6 3/8"	5"	22"	1 1/2"	2 3/8"	1 1/2"	4 1/2"	22"	4 1/2"	8	2
Bent 2 (Girder 2-4)	18"	2'-6"	2'-7"	2'-11"	2 3/8"	26"	6 3/8"	5"	16"	1 1/2"	5"	1 1/2"	4 1/2"	22"	4 1/2"	8	3
TOTAL BEARINGS																	10

* The required shim plate shall be placed between layers of elastomer and molded together to form an integral unit.

GENERAL NOTES:

- Anchor bolts shall be 2 1/2"Ø ASTM F1554 Grade 105 swedged bolts and shall extend 25" into the concrete with ASTM A563 Grade DH Heavy Hex nuts. Actual manufacturer's certified mill test reports (chemical and mechanical) shall be provided. Swedging shall be 1" less than extension into the concrete.
- Anchor bolts and heavy hex nuts shall be coated with a minimum of two coats of inorganic zinc primer to provide a total dry film thickness of 4 mils minimum, 6 mils maximum, or galvanized in accordance with Sec 1081.
- Neoprene Elastomeric Pads shall be 60 Durometer.
- Structural steel for sole plate shall be ASTM A709 Grade 36 and shall be coated with a minimum of two coats of inorganic zinc primer to provide a total dry film thickness of 4 mils minimum, 6 mils maximum.
- Laminated Neoprene Bearing Pad Assembly shall be in accordance with Sec 716.

LAMINATED NEOPRENE BEARING PAD ASSEMBLY



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	1/8/2026
ROUTE	US-61
STATE	MO
DISTRICT	BR
SHEET NO.	A9685-18
COUNTY	ST. CHARLES
JOB NO.	JST0020
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	A9685

DATE	DESCRIPTION

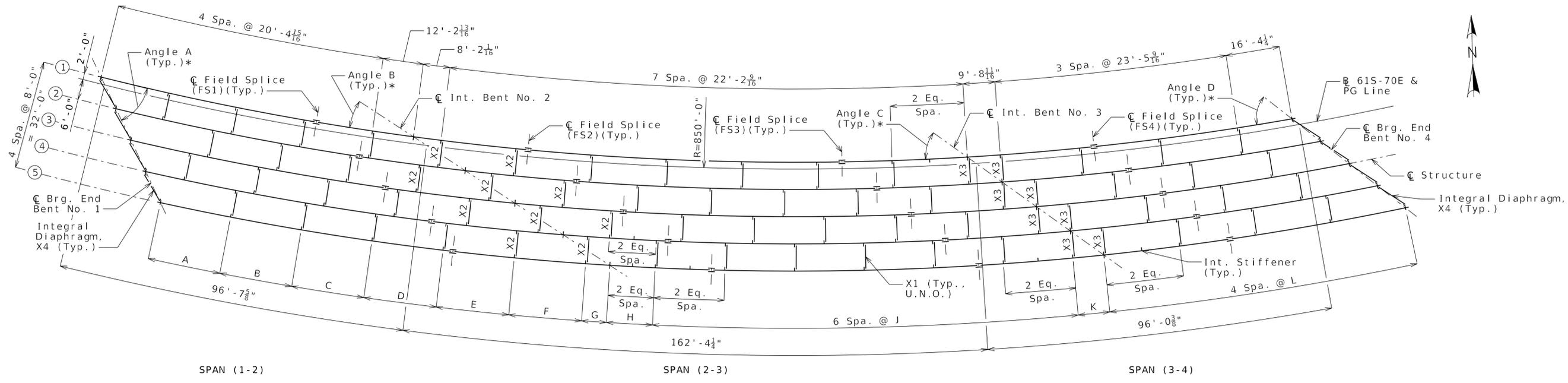
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
CERTIFICATE OF AUTHORITY NO. 001270

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 872-603-5181
WWW.BARTLETTWEST.COM



PLAN OF STRUCTURAL STEEL
* Measured to local tangent

TABLE OF ANGLES				
Element	A	B	C	D
Girder 1	50°39'03"	25°30'57"	38°59'26"	47°57'59"
Girder 2	51°05'18"	26°36'56"	39°38'51"	48°26'50"
Girder 3 & Structure	51°30'55"	27°39'20"	40°17'01"	48°54'57"
Girder 4	51°55'56"	28°38'33"	40°53'59"	49°22'21"
Girder 5	52°20'20"	29°34'55"	41°29'51"	49°49'05"
B 61S-70E	50°45'40"	25°47'48"	39°09'25"	48°05'16"

TABLE OF VARIABLE DIMENSIONS											
Girder Number	A	B	C	D	E	F	G	H	J	K	L
2	--	14'-0 13/16"	20'-7 1/4"	20'-7 1/4"	20'-7 1/4"	20'-7 1/4"	8'-2 1/8"	14'-3"	22'-5 1/16"	9'-9 3/4"	23'-8 1/4"
3	--	23'-1 1/4"	20'-9 3/8"	20'-9 3/8"	20'-9 3/8"	21'-7 9/16"	7'-9 3/8"	13'-11 1/8"	21'-8 1/16"	9'-7 7/16"	23'-3 1/16"
4	11'-6 11/16"	20'-11 7/16"	20'-11 7/16"	20'-11 7/16"	21'-6 3/4"	21'-2 1/16"	7'-5 11/16"	13'-7 11/16"	21'-1 1/2"	9'-4 3/8"	22'-10 3/8"
5	21'-1 7/16"	21'-1 7/16"	21'-1 9/16"	21'-1 9/16"	21'-1 9/16"	21'-1 9/16"	7'-2 3/16"	13'-4 3/8"	20'-6 1/16"	9'-2 7/16"	22'-6 3/8"

Notes:
 For Girder Elevations, see Sheet No. 20.
 Cross Frames and Diaphragms shall be attached in the position shown. Cross Frames are normal to C Girder.
 Longitudinal dimensions are horizontal and measured along B 61S-70E from C bearing to C bearing. Intermediate Stiffener locations are measured horizontally along C Girder. Cross Frame spacing is reported at C Connection PL or C Bearing Stiffener and measured along C Girder.
 Cross Frames, Diaphragms, and their connections shall be fabricated to the steel dead load fit condition.
 Bolts shall be 1-inch diameter ASTM F3125 Grade A325 Type 1 in 1 1/8-inch diameter holes, unless noted otherwise.

PLAN OF STRUCTURAL STEEL



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.
DATE PREPARED 1/8/2026

ROUTE	US-61	STATE	MO
DISTRICT	BR	SHEET NO.	A9685-19
COUNTY	ST. CHARLES		
JOB NO.	JST0020		
CONTRACT ID.			

PROJECT NO.	
BRIDGE NO.	A9685

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



HNTB
 715 KIRK DRIVE KANSAS CITY, MO 64105-1310
 CERTIFICATE OF AUTHORITY NO. 001270

Bartlett & West
 601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
 PHONE 872-033181 FAX 872-033181
 CERTIFICATE OF AUTHORITY NO. 001270
 WWW.BARTLETTWEST.COM

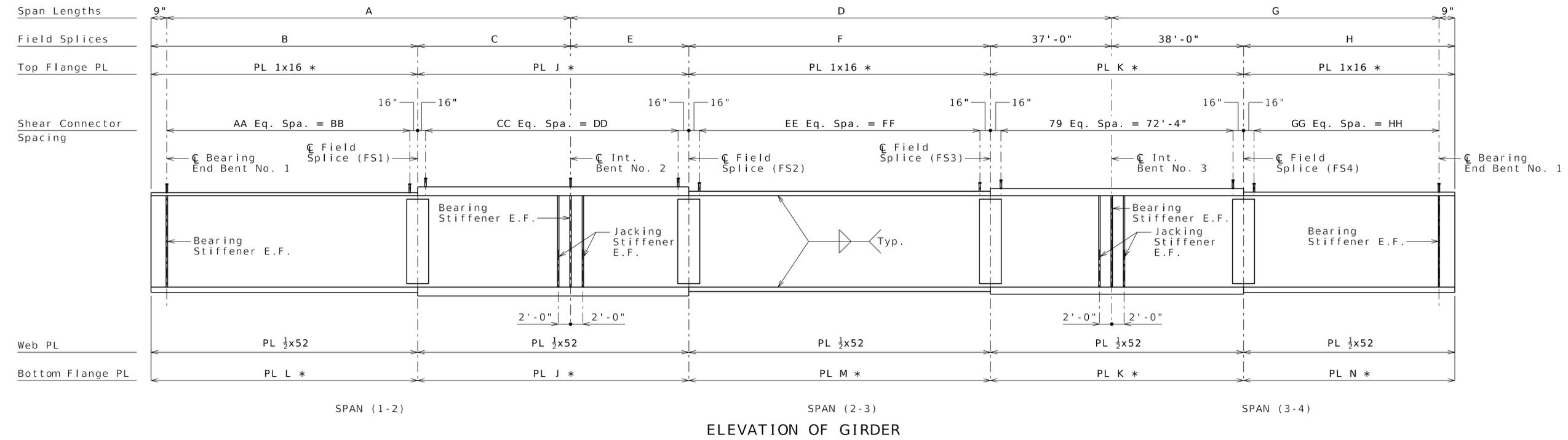
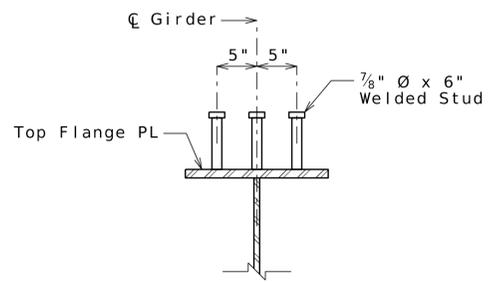


TABLE OF VARIABLE DIMENSIONS

Girder Number	A	B	C	D	E	F	G	H	J	K	L	M	N
1	93' - 10 ⁹ / ₁₆ "	65' - 7 ⁹ / ₁₆ "	29' - 0"	163' - 8"	34' - 0"	92' - 8"	96' - 5 ⁵ / ₈ "	59' - 2 ⁵ / ₈ "	1 ³ / ₄ x 22	2 ¹ / ₂ x 22	1 ¹ / ₂ x 16	1 ¹ / ₄ x 18	1 ¹ / ₂ x 16
2	104' - 7 ¹ / ₁₆ "	73' - 10 ¹ / ₁₆ "	31' - 6"	158' - 7 ¹ / ₈ "	33' - 0"	88' - 7 ¹ / ₈ "	94' - 9"	57' - 6"	2 ¹ / ₄ x 22	1 ³ / ₄ x 16	1 ¹ / ₂ x 16	1 ¹ / ₄ x 18	1 ¹ / ₂ x 16
3	114' - 10 ⁹ / ₁₆ "	77' - 1 ⁹ / ₁₆ "	38' - 6"	153' - 11 ¹ / ₁₆ "	32' - 0"	84' - 11 ¹ / ₁₆ "	93' - 1 ⁵ / ₁₆ "	55' - 10 ⁵ / ₁₆ "	2 ¹ / ₂ x 22	1 ³ / ₄ x 16	1 ¹ / ₂ x 16	1 ¹ / ₂ x 18	1 ¹ / ₂ x 16
4	124' - 7 ¹ / ₂ "	86' - 4 ¹ / ₂ "	39' - 0"	149' - 9 ¹ / ₄ "	31' - 0"	81' - 9 ¹ / ₄ "	91' - 6 ¹ / ₂ "	54' - 3 ¹ / ₂ "	2 ¹ / ₂ x 22	1 ³ / ₄ x 16	1 ¹ / ₂ x 16	1 ¹ / ₄ x 18	1 ¹ / ₂ x 16
5	133' - 11 ⁷ / ₁₆ "	88' - 2 ⁷ / ₁₆ "	46' - 6"	145' - 10 ¹ / ₁₆ "	30' - 0"	78' - 10 ¹ / ₁₆ "	90' - 0 ¹ / ₂ "	52' - 9 ¹ / ₂ "	2 ¹ / ₂ x 24	2 x 22	1 ¹ / ₂ x 16	1 ¹ / ₄ x 18	1 ¹ / ₂ x 16

TABLE OF VARIABLE DIMENSIONS

Girder Number	AA	BB	CC	DD	EE	FF	GG	HH
1	61	63' - 6 ⁹ / ₁₆ "	66	60' - 4"	90	90' - 0"	69	57' - 1 ⁵ / ₈ "
2	64	71' - 9 ¹ / ₁₆ "	51	61' - 10"	76	85' - 11 ¹ / ₈ "	54	55' - 5"
3	73	75' - 0 ⁹ / ₁₆ "	60	67' - 10"	78	82' - 3 ¹ / ₁₆ "	50	53' - 9 ⁵ / ₁₆ "
4	80	84' - 3 ¹ / ₂ "	64	67' - 4"	77	79' - 1 ¹ / ₄ "	47	52' - 2 ¹ / ₄ "
5	112	86' - 1 ⁷ / ₁₆ "	80	73' - 10"	80	76' - 2 ¹ / ₁₆ "	51	50' - 8 ¹ / ₂ "



Shear connectors shall be in accordance with Sec 712, 1037 & 1080.

Notes:

- * Indicates flange plate subject to notch toughness requirements. All web plates shall be subject to notch toughness requirements.
- Plate girders shall be fabricated in accordance with the camber diagram shown on Sheet No. 21.
- For details of bolted field splices, see Sheet No. 22.
- For Framing Plan, see Sheet No. 19.
- For details of stiffeners and connection plates, see Sheet No. 26.
- For holes in girder web at end bent and Part Longitudinal Section, see Sheet No. 26.
- All structural steel components shall be ASTM A709, Grade 50.
- Longitudinal dimensions are horizontal from \bar{C} bearing to \bar{C} bearing.
- Intermediate stiffeners, connection plates, and flange splice plates not shown for clarity.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 1/8/2026

ROUTE: US-61	STATE: MO
DISTRICT: BR	SHEET NO.: A9685-20
COUNTY: ST. CHARLES	
JOB NO.: JST0020	
CONTRACT ID.:	
PROJECT NO.:	
BRIDGE NO.: A9685	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

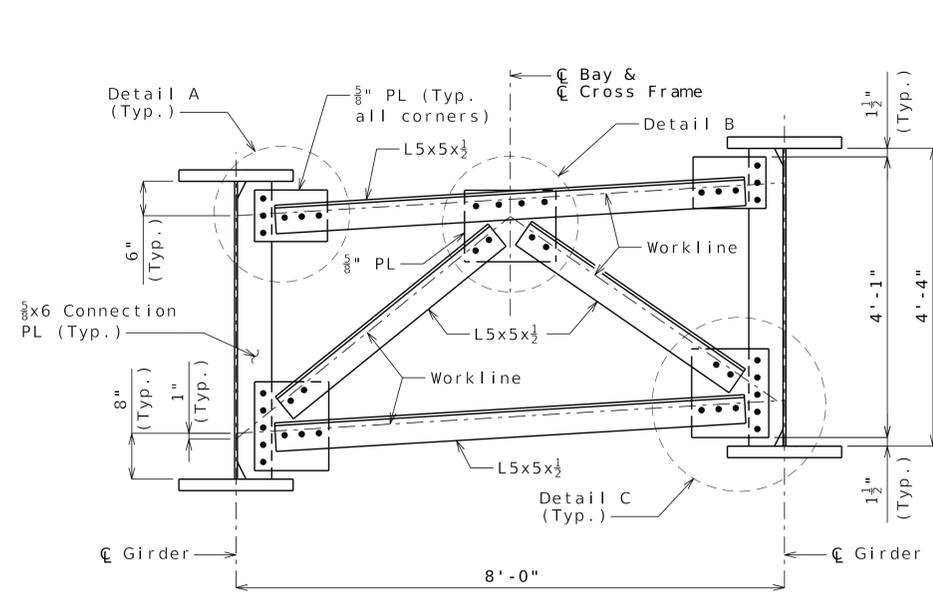


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

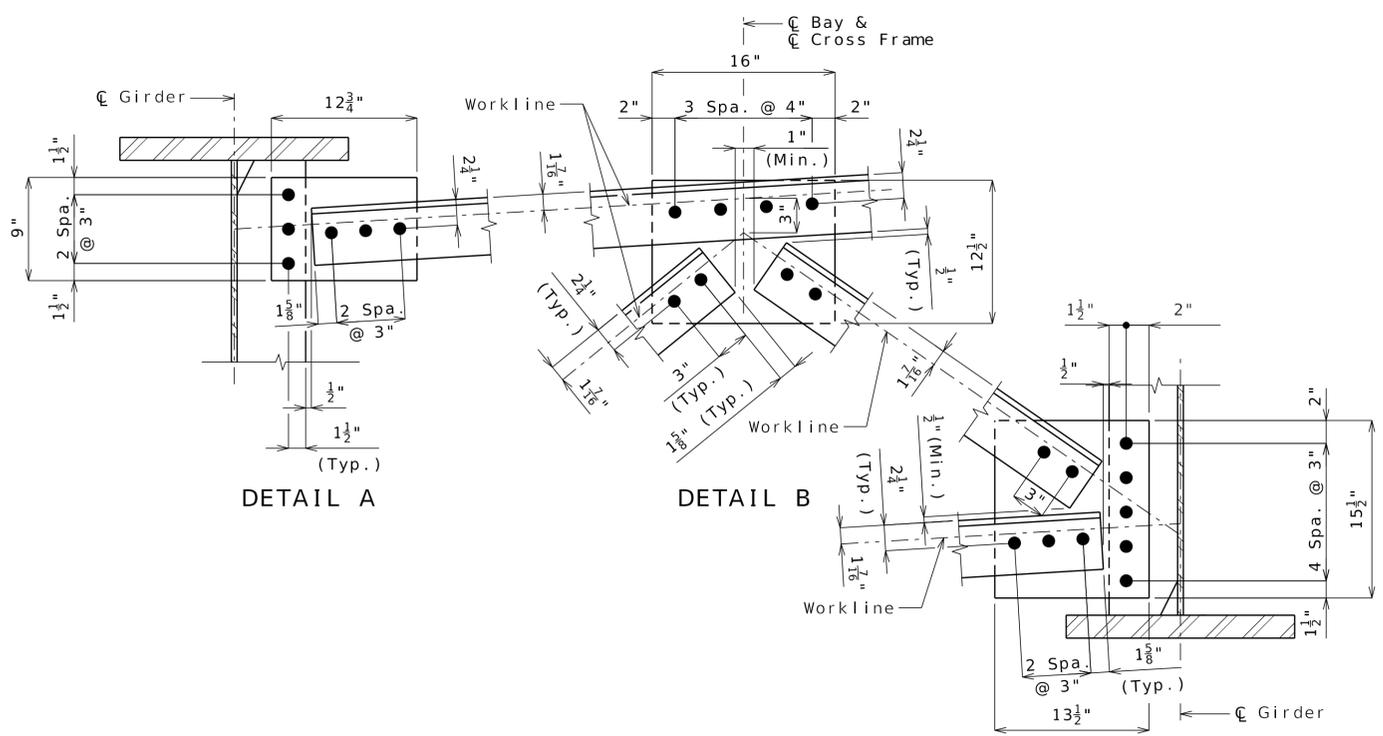


HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
CERTIFICATE OF AUTHORITY NO. 001270

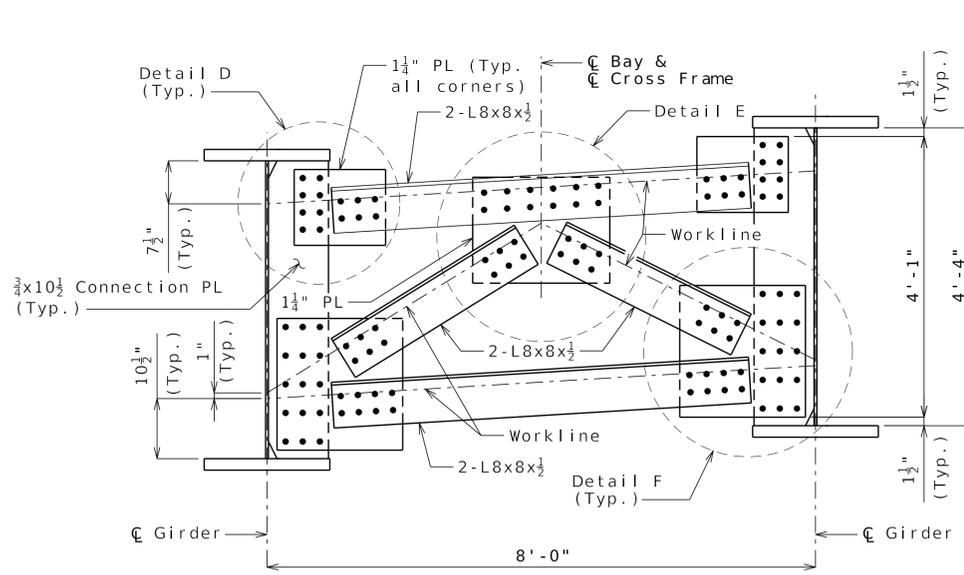
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE: 872-033181
CERTIFICATE OF AUTHORITY NO. 001270
WWW.BARTLETTWEST.COM



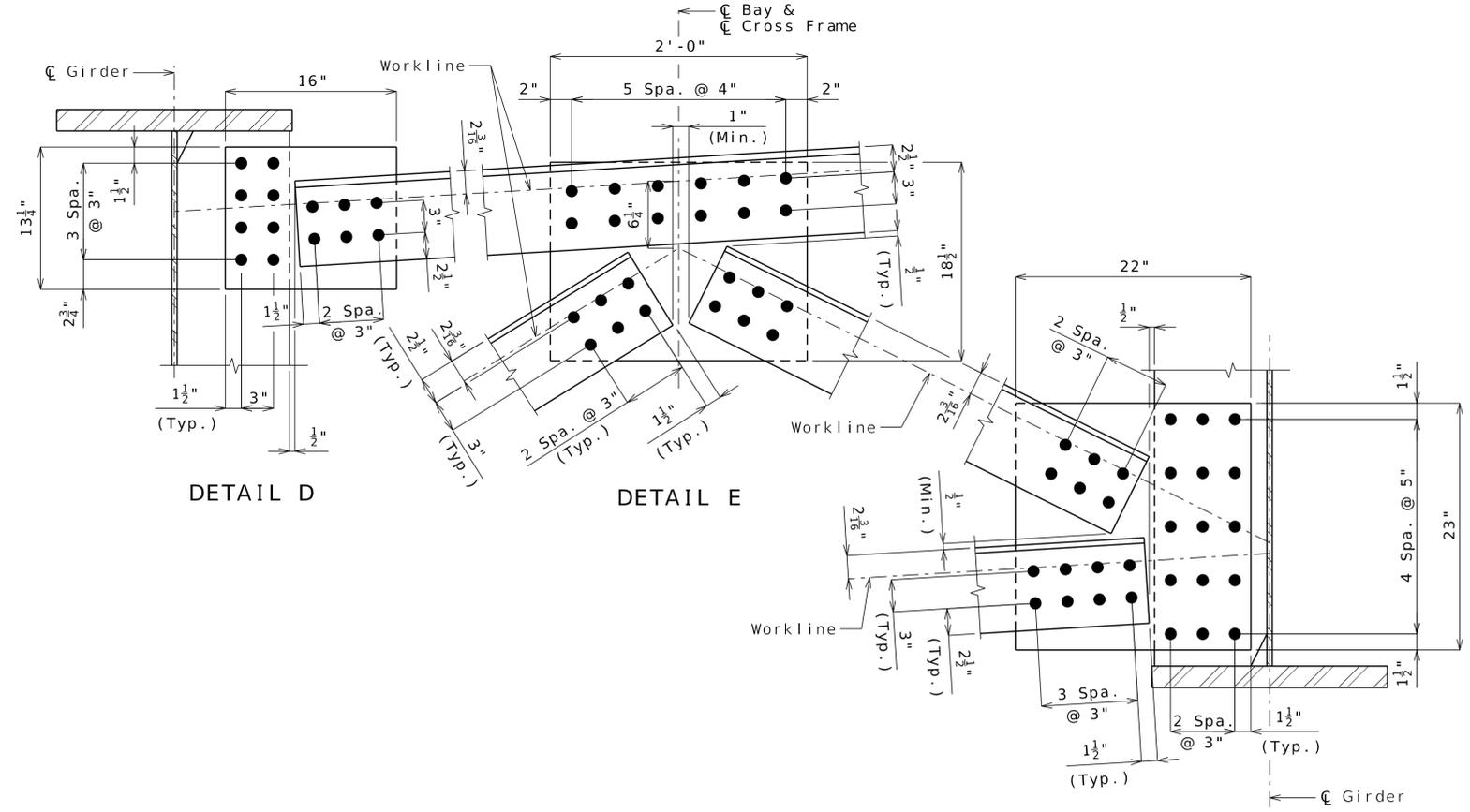
TYPICAL PART SECTION SHOWING INTERMEDIATE CROSS FRAME X1



DETAIL C



TYPICAL PART SECTION SHOWING INTERMEDIATE CROSS FRAME X2



DETAIL F

CROSS FRAME DETAILS (1 OF 3)



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/8/2026

ROUTE US-61 STATE MO DISTRICT BR SHEET NO. A9685-23

COUNTY ST. CHARLES JOB NO. JST0020 CONTRACT ID.

PROJECT NO. BRIDGE NO. A9685

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

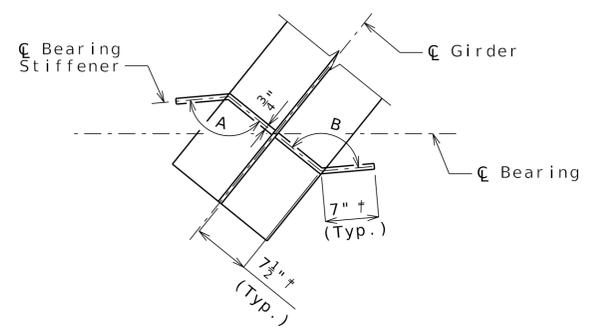
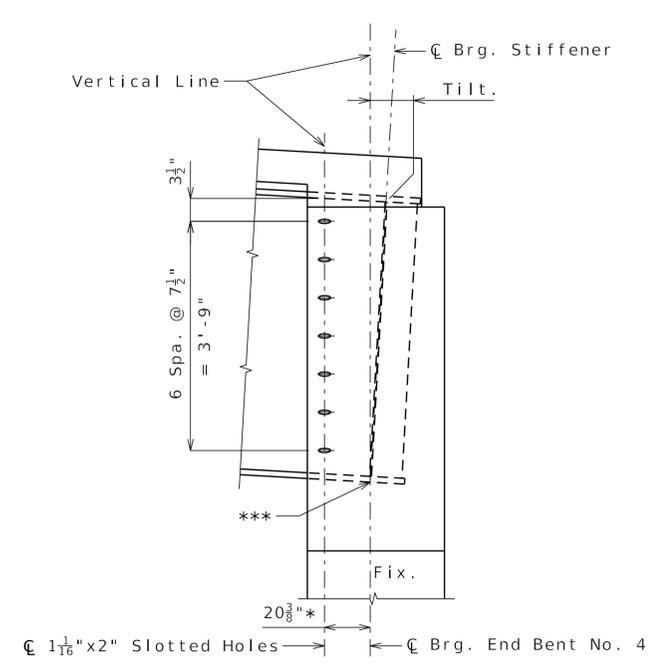
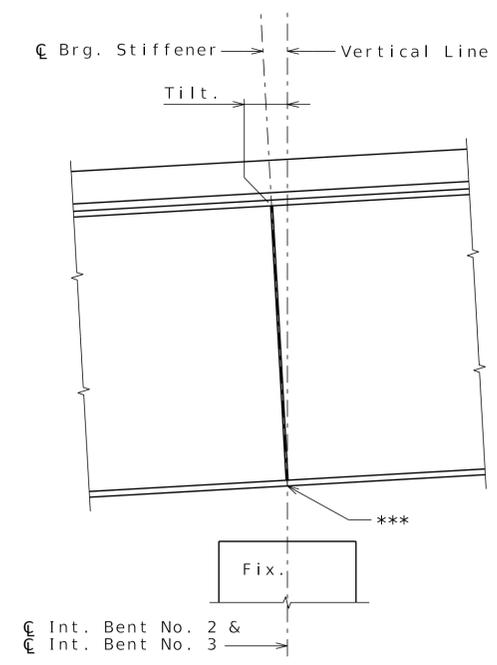
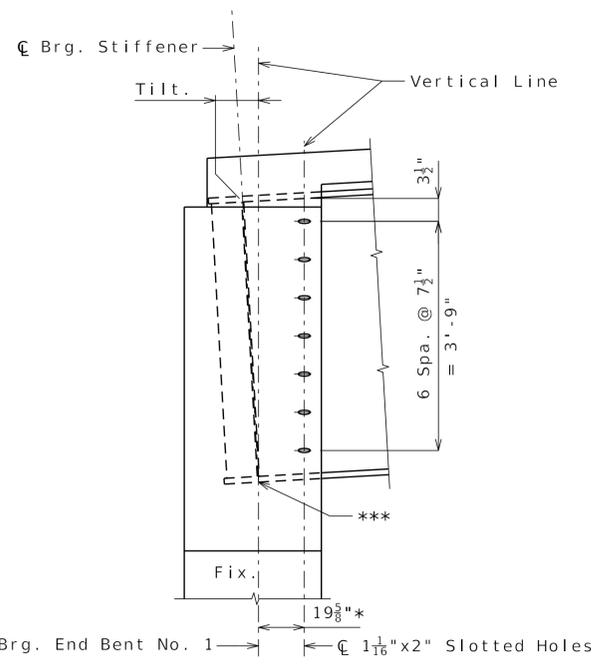


HNTB 715 KIRK DRIVE KANSAS CITY, MO 64105-1310 CERTIFICATE OF AUTHORITY NO. 001270

Bartlett & West 601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101 PHONE: 872-603-5181 ENGINEERING CERTIFICATE OF AUTHORITY NO. 001270 WWW.BARTLETTWEST.COM

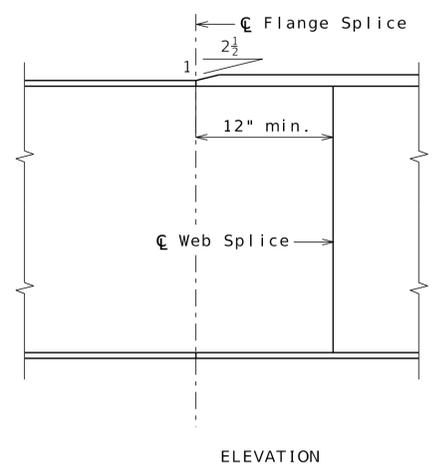
PART LONGITUDINAL ELEVATION - TILT				
	End Bent No. 1	Int. Bent No. 2	Int. Bent No. 3	End Bent No. 4
Girder 1	1 7/16"	1"	3/16"	1/4"
Girder 2	1 3/8"	1 5/16"	3/16"	1/4"
Girder 3	1 3/8"	7/8"	1/8"	5/16"
Girder 4	1 5/16"	1 3/16"	1/16"	5/16"
Girder 5	1 5/16"	1 1/16"	1/16"	3/8"

TABLE OF ANGLES				
	End Bent No. 1		End Bent No. 4	
	A	B	A	B
Girder 1	---	135°39'00"	---	132°55'55"
Girder 2	136°05'07"	136°05'41"	133°24'46"	133°24'48"
Girder 3	136°31'18"	136°31'56"	133°52'55"	133°53'09"
Girder 4	136°56'56"	136°57'37"	134°20'33"	134°20'52"
Girder 5	137°22'02"	---	134°47'35"	---

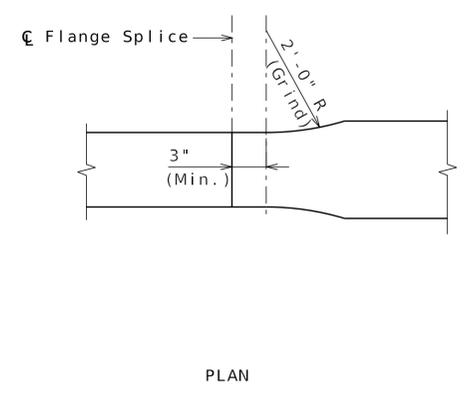


PLAN AT END BENT STIFFENERS
† Measured along C Bearing Stiffener

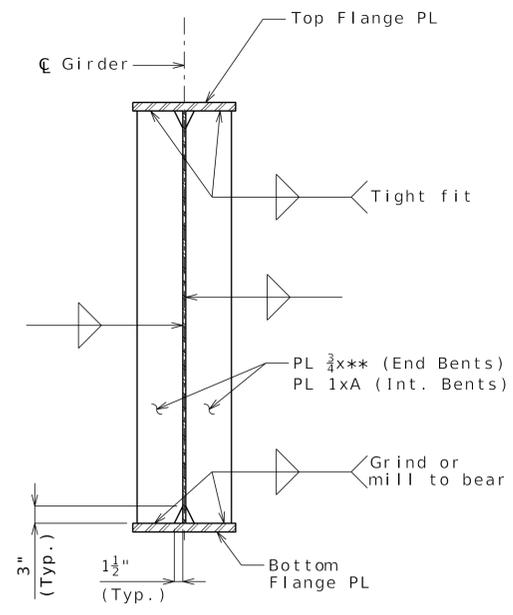
BEARING STIFFENER WIDTHS		
	Int. Bent No. 2	Int. Bent No. 3
Girder 1	10 1/2"	10 1/2"
Girder 2	10 1/2"	7 1/2"
Girder 3	10 1/2"	7 1/2"
Girder 4	10 1/2"	7 1/2"
Girder 5	11 1/2"	10 1/2"



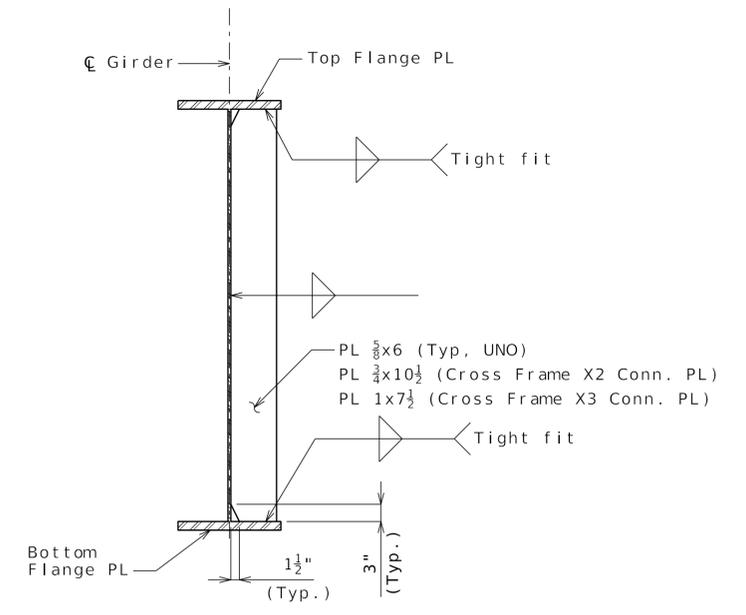
WELDED SHOP WEB AND FLANGE SPLICE
Note: Welded shop web and flange splices may be permitted when detailed on the shop drawings and approved by the engineer.



Notes:
* Measured horizontal along C Girder
*** Point of Rotation assumed at bottom of bottom flange.
Girder tilt dimensions are horizontal dimension at the bottom of the top flange



** See Plan at End Bent Stiffeners Detail
BEARING AND JACKING STIFFENER



INTERMEDIATE STIFFENER AND CONNECTION PLATE

WELDING DETAILS

MISC. STEEL DETAILS

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 1/8/2026

ROUTE	STATE
US-61	MO
DISTRICT	SHEET NO.
BR	A9685-26

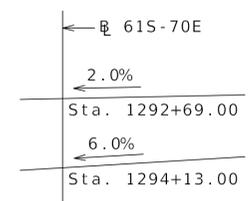
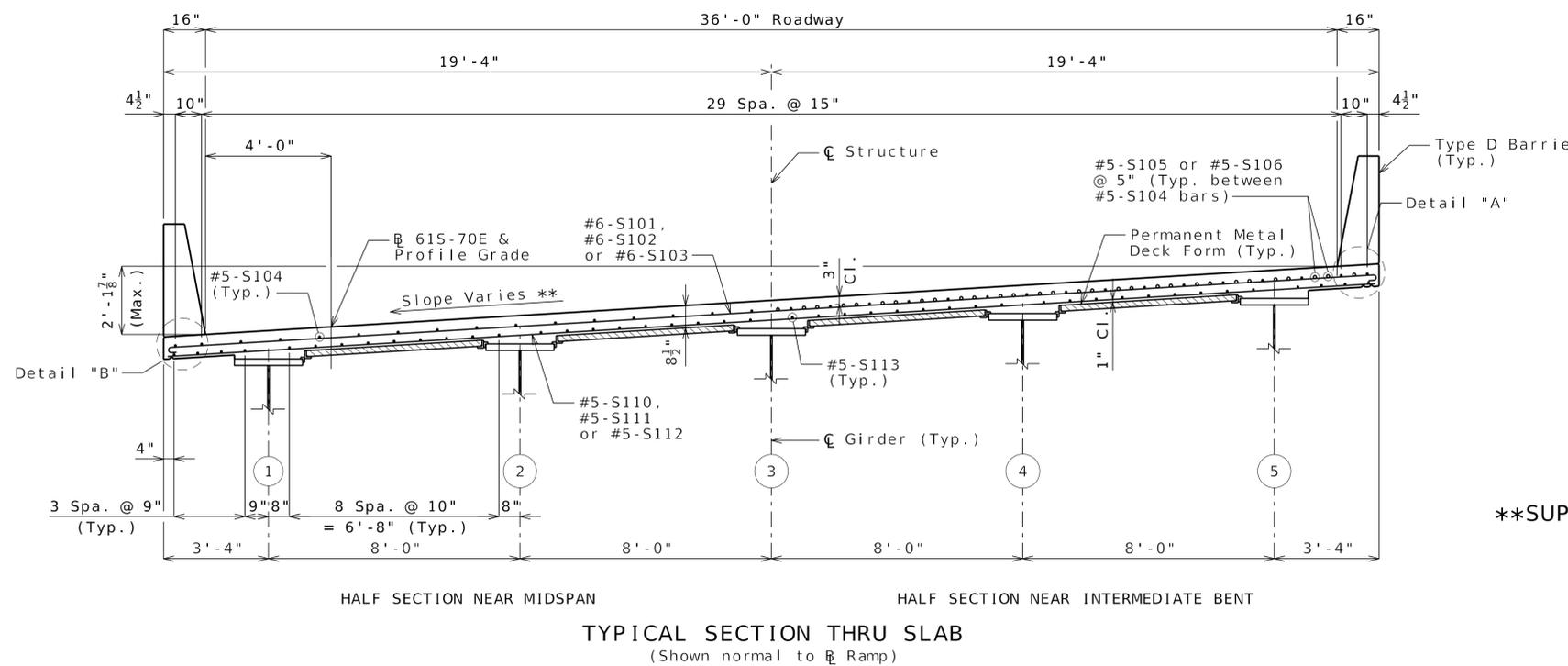
COUNTY: ST. CHARLES
JOB NO.: JST0020
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A9685

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

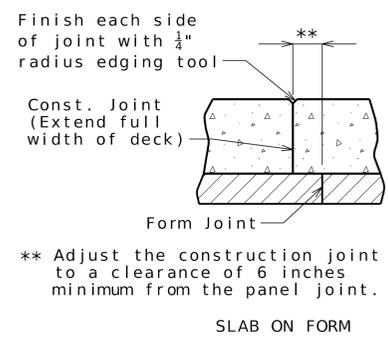
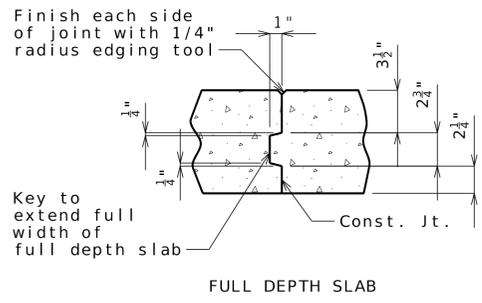
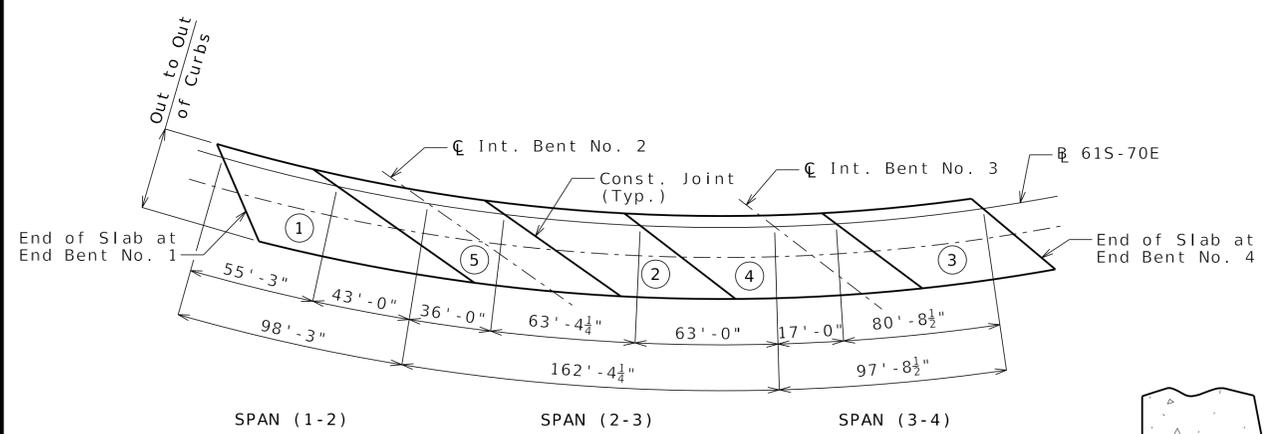
105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
CERTIFICATE OF AUTHORITY NO. 001270

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
ENGINEERING
WWW.BARTLETTWEST.COM



****SUPERELEVATION TRANSITION**
Looking Upstation



SLAB CONSTRUCTION JOINT

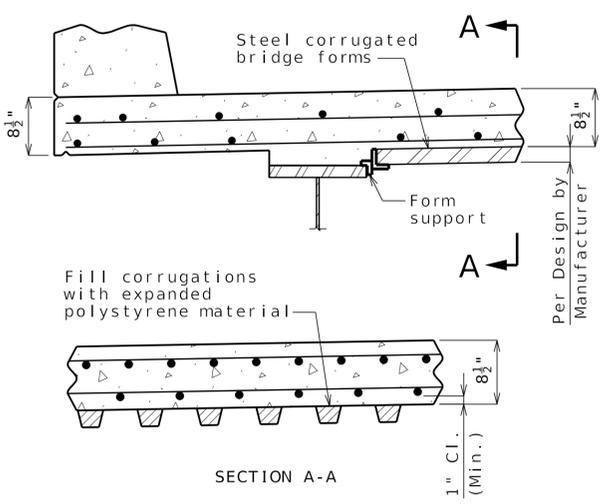
	Sequence of Pours					Min. Rate of Pour Cu. Yds./Hr. With Retarder
	Direction					
Basic Sequence	1	2	3	4	5	25
	Either Direction					
Alternate pours to the basic skip sequence are subject to the approval of the engineer in accordance with Sec 703.						
Alternate A Pours	1	5 + 2	4 + 3			50
	End to 5	1 to 4	2 to End			
Alternate B Pours	1 + 5 + 2	4 + 3				50
	End to 4	2 to End				
Alternate C Pours	1 + 5 + 2 + 4 + 3					50
	End to End					

The contractor shall pour and satisfactorily finish the slab pours at the rate given. Retarder shall be an approved type and retard the set of concrete to 2.5 hours.

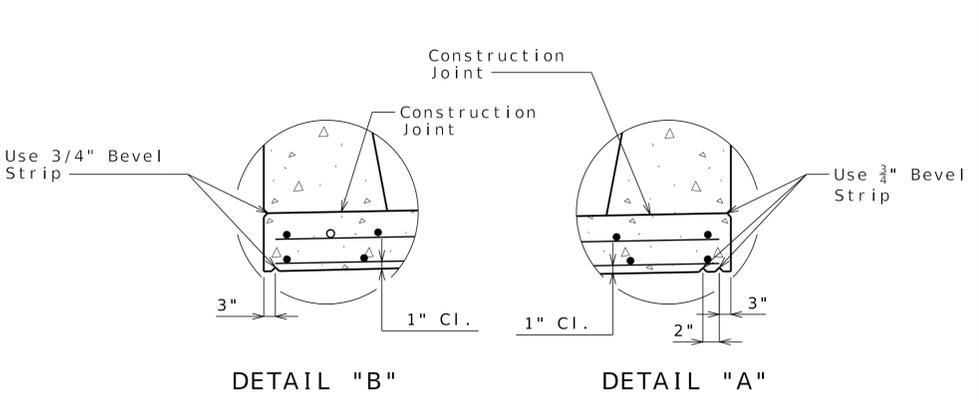
The concrete diaphragm at the integral end bents shall be poured a minimum of 30 minutes and a maximum of 2 hours before the slab is poured.

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

SLAB POURING SEQUENCE



STAY-IN-PLACE FORM DETAILS



Notes:
Barrier reinforcement not shown for clarity.
For Plan of Slab Showing Reinforcement and additional notes, see Sheet No. 27.
For metal deck form notes, see General Notes.
Contractor may shift bars as necessary to tie in barrier bars.

SLAB DETAILS



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 1/8/2026

ROUTE: US-61
STATE: MO
DISTRICT: BR
SHEET NO.: A9685-28

COUNTY: ST. CHARLES
JOB NO.: JST0020
CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.: A9685

DATE	DESCRIPTION

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



HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE: 872-033-1818
FAX: 872-033-1819
WWW.BARTLETTWEST.COM

Bartlett & West
ENGINEERING



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/8/2026
ROUTE
US-61
DISTRICT
BR
COUNTY
ST. CHARLES
JOB NO.
JST0020
CONTRACT ID.

PROJECT NO.
BRIDGE NO.
A9685

DATE	DESCRIPTION

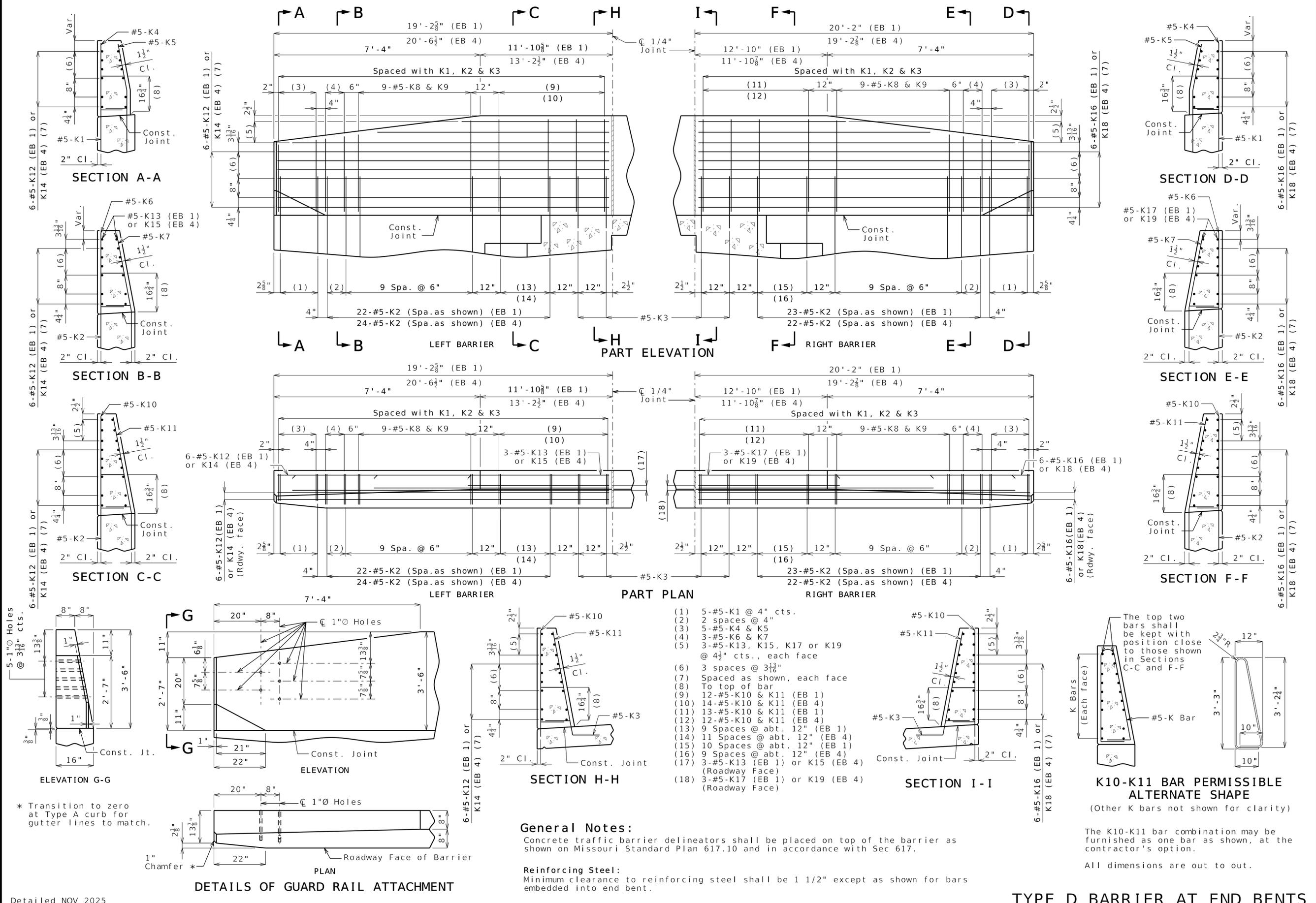
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



HNTB
 715 KIRK DRIVE
 KANSAS CITY, MO 64105-1310
 CERTIFICATE OF AUTHORITY
 NO. 001270

 601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
 PHONE 872-03318
 CERTIFICATE OF AUTHORITY - ENGINEERING
 WWW.BARTLETTWEST.COM

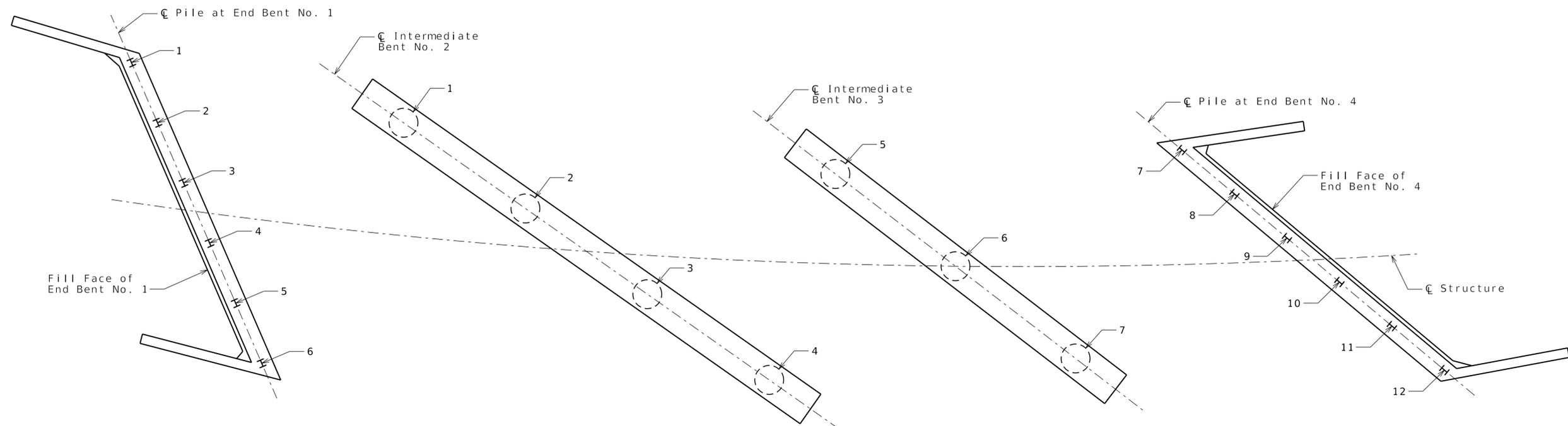


Detailed NOV 2025
 Checked NOV 2025

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

Sheet 31 of 40

TYPE D BARRIER AT END BENTS



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

As-Built Pile Data			
Pile No.	Length in Place (ft)	Computed Nominal Axial Compressive Resistance (kips)	Remarks
			End Bent No. 1
1			
2			
3			
4			
5			
6			

As-Built Pile Data			
Pile No.	Length in Place (ft)	Computed Nominal Axial Compressive Resistance (kips)	Remarks
			End Bent No. 4
7			
8			
9			
10			
11			
12			

As-Built Drilled Shaft Data				
Shaft No.	Top of Sound Rock (Elev.)	Tip of Casing (Elev.)	Bottom of Rock Socket (Elev.)	Remarks
				Intermediate Bent No. 2
1				
2				
3				
4				
				Intermediate Bent No. 3
5				
6				
7				

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

This sheet to be completed by the design-builder.

AS-BUILT PILE AND DRILLED SHAFT DATA



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/8/2026

ROUTE STATE
US-61 MO

DISTRICT SHEET NO.
BR A9685-36

COUNTY
ST. CHARLES

JOB NO.
JST0020

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9685

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
CERTIFICATE OF AUTHORITY
NO. 001270

Bartlett & West
601 MONROE ST., SUITE 201 - JEFFERSON CITY, MO 65101
PHONE: 872-603-5181
FAX: 872-603-5182
WWW.BARTLETTWEST.COM

