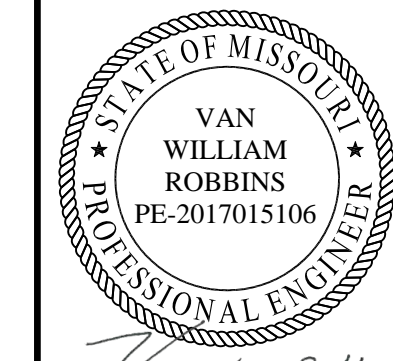


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Note:  
See Civil Package 2: Early Grading for project reference points and project coordinate points.



*Van W. Robbins*  
07-02-25

DATE PREPARED  
06/25/2025

ROUTE STATE  
I - 70 MO

DISTRICT SHEET NO.  
BR B11-01

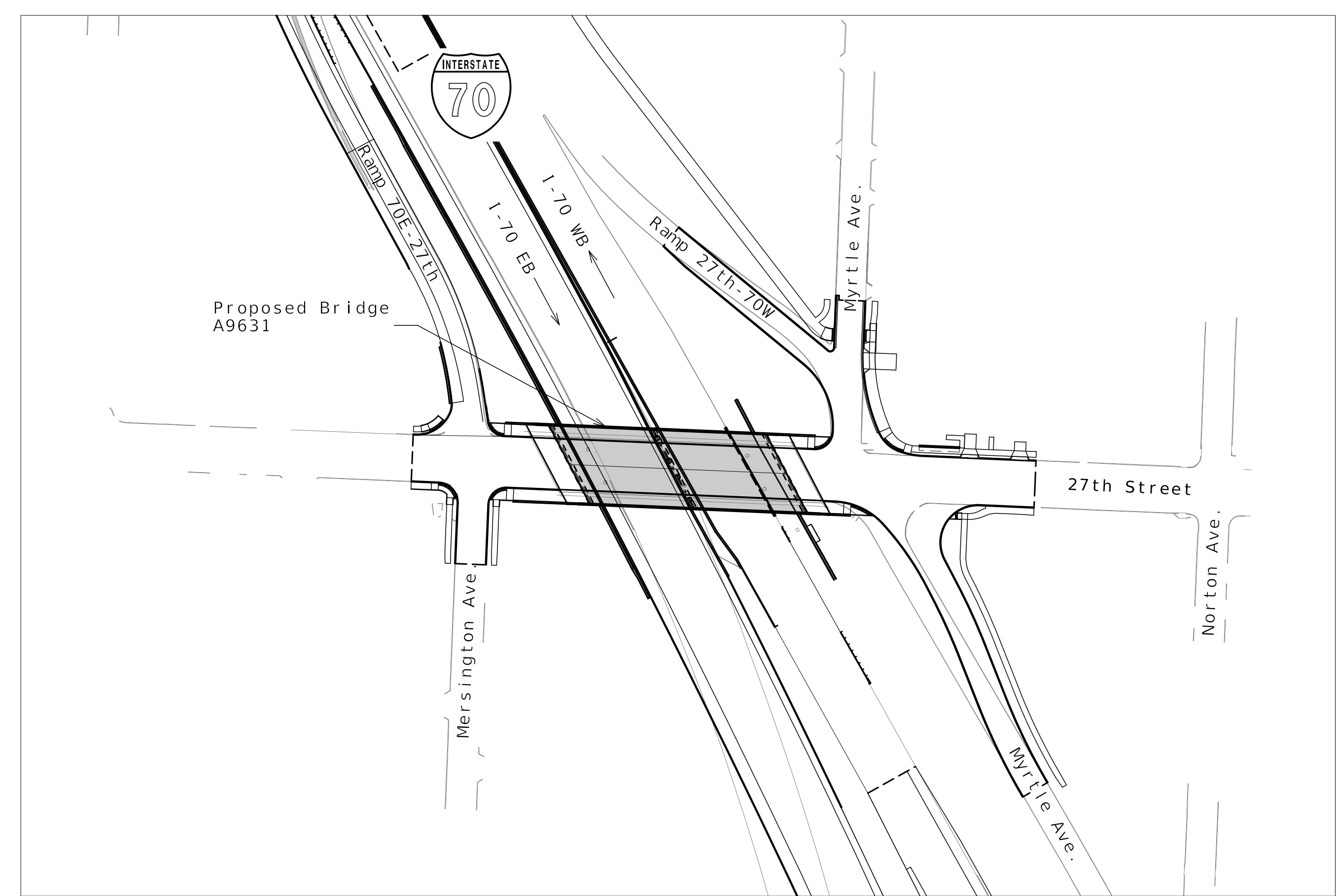
COUNTY  
JACKSON

JOB NO.  
J411486D

CONTRACT ID.  
240807-C01

PROJECT NO.

BRIDGE NO.  
A9631



LOCATION SKETCH

INDEX OF DRAWINGS

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- B11-02 General Plan and Elevation
- B11-03 General Notes
- B11-04 Substructure Layout
- B11-05 Details of End Bent No. 1
- B11-06 Details of End Bent No. 1
- B11-07 Details of End Bent No. 1
- B11-08 Vertical Drain at End Bents
- B11-09 Details of Intermediate Bent No. 2
- B11-10 Details of Intermediate Bent No. 2
- B11-11 Details of End Bent No. 3
- B11-12 Details of End Bent No. 3
- B11-13 Details of End Bent No. 3
- B11-14 Framing Plan
- B11-15 NU-Girders - Span (1-2)
- B11-16 NU-Girders - Span (2-3)
- B11-17 NU-Girder Details
- B11-18 Concrete Diaphragm at Intermediate Bent
- B11-19 Camber Diagram & Theoretical Slab Haunching Diagram
- B11-20 Theoretical Bottom of Slab Elevations
- B11-21 Slab Plan Showing Top Reinforcement
- B11-22 Slab Plan Showing Bottom Reinforcement
- B11-23 Slab Details
- B11-24 Type D Barrier
- B11-25 Type D Barrier at End Bents
- B11-26 Light Blister Details
- B11-27 Decorative Pedestrian Fence Details
- B11-28 Form Liner and Aesthetic Stain Details
- B11-29 Details of Conduit System on Structure
- B11-30 Bridge Approach Slab (Minor)
- B11-31 As-Built Pile and Drilled Shaft Data
- B11-32 Boring Logs
- B11-33 Boring Logs
- B11-34 Boring Logs
- B11-35 Boring Logs

DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

CLARKSON RADMACHER JOINT VENTURE

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

**Released For Construction**  
Not to Scale  
Revision: 0.0  
Date: 07/07/2025  
Package: BRD-11-27th St.

BRIDGE: 27TH STREET OVER ROUTE I-70

ROUTE I-70 FROM ROUTE I-670 TO ROUTE 40  
ABOUT 2.8 MILES EAST OF ROUTE I-670  
TIE STATION 607+34.42 (☉ I-70)

Detailed MAR 2025  
Checked APR 2025

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

Sheet No. B11-01 of B11-35



**Design Specifications:**  
 2020 AASHTO LRFD Bridge Design Specifications (9th Ed.) and 2023 AASHTO Guide Specifications for LRFD Seismic Bridge Design (3rd Edition)  
 Seismic Design Category = A (Nonseismic)  
 Design earthquake response spectral acceleration coefficient at 1.0 second period,  $S_{D1} \leq 0.15$   
 Acceleration Coefficient (effective peak ground acceleration coefficient),  $A_s = N/A$

**Design Loading:**  
 Vehicular = HL-93  
 Future Wearing Surface = 35 lb/sf  
 Earth - 120 lb/cf  
 Equivalent Fluid Pressure - 45 lb/cf  
 Superstructure: Simply-Supported, non-composite for dead load. Continuous composite for live load.

**Design Unit Stresses:**  
 Class B Concrete (End Bents below Const. Jt.)  $f'c = 3,000$  psi  
 Class B-1 Concrete (Intermediate Bent except Drilled Shafts and Rock Sockets)  $f'c = 4,000$  psi  
 Class B-2 Concrete (Drilled Shafts and Rock Sockets)  $f'c = 4,000$  psi  
 Class B-2 Concrete (Superstructure, except Prestressed Girders and Type D Barrier)  $f'c = 4,000$  psi  
 Class B-1 Concrete (Type D Barrier)  $f'c = 4,000$  psi  
 Reinforcing Steel (ASTM A615 Grade 60)  $f_y = 60,000$  psi  
 Structural HP Steel Pile (ASTM A709 Grade 50)  $f_y = 50,000$  psi  
 For prestressed girder stresses, see Sheets No. B11-15 thru B11-16.

**Neoprene Pads:**  
 Neoprene Bearing Pads shall be 60 durometer and shall be in accordance with Sec 716.

**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.

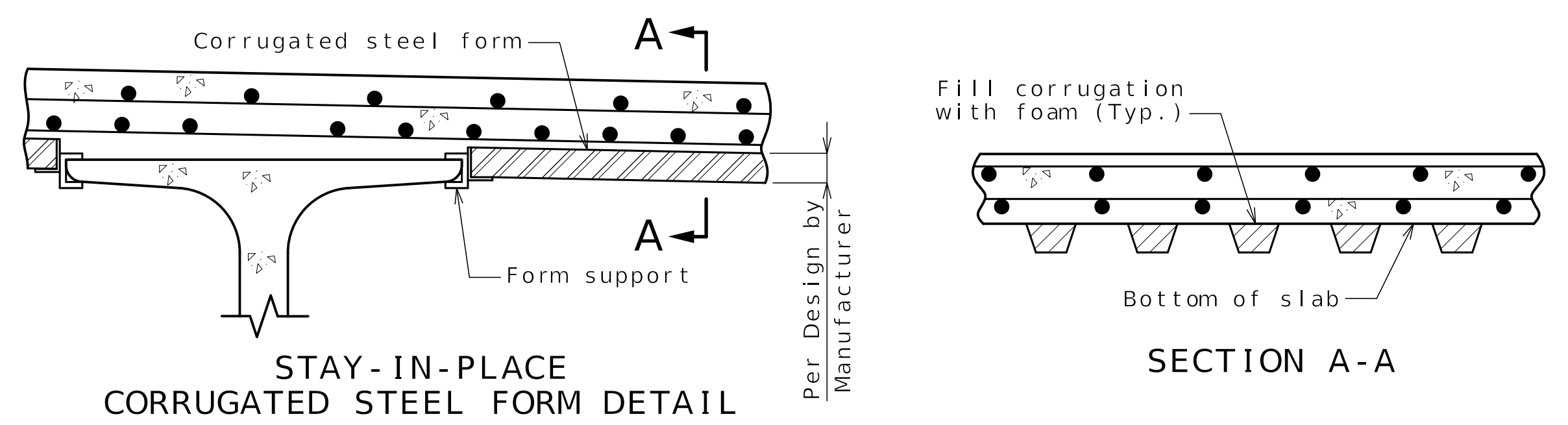
All reinforcing in the Type D barriers, raised sidewalks, light blisters, slab, concrete diaphragms, End Bents No. 1 and 3 and Intermediate Bents No. 2 shall be epoxy coated. Reinforcing in the rock sockets and drilled shafts shall be uncoated.

**Concrete Protective Coatings:**  
 Concrete and masonry protective coating shall be applied on all exposed concrete and stone areas as noted in the plans in accordance with Sec 711. See Sheet No. B11-28.

Sacrificial graffiti protective coating shall be applied on all exposed concrete and stone areas as noted in the plans in accordance with Sec 711. See Sheet No. B11-28.

**Miscellaneous:**  
 Outline of old work is indicated by light dashed lines. Heavy lines indicate new work U.N.O.

**Abbreviations:**  
 E.F. denotes Each Face  
 N.F. denotes Near Face  
 F.F. denotes Far face  
 U.N.O. denotes Unless Noted Otherwise



**Stay-In-Place Corrugated Steel Form Notes:**

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.

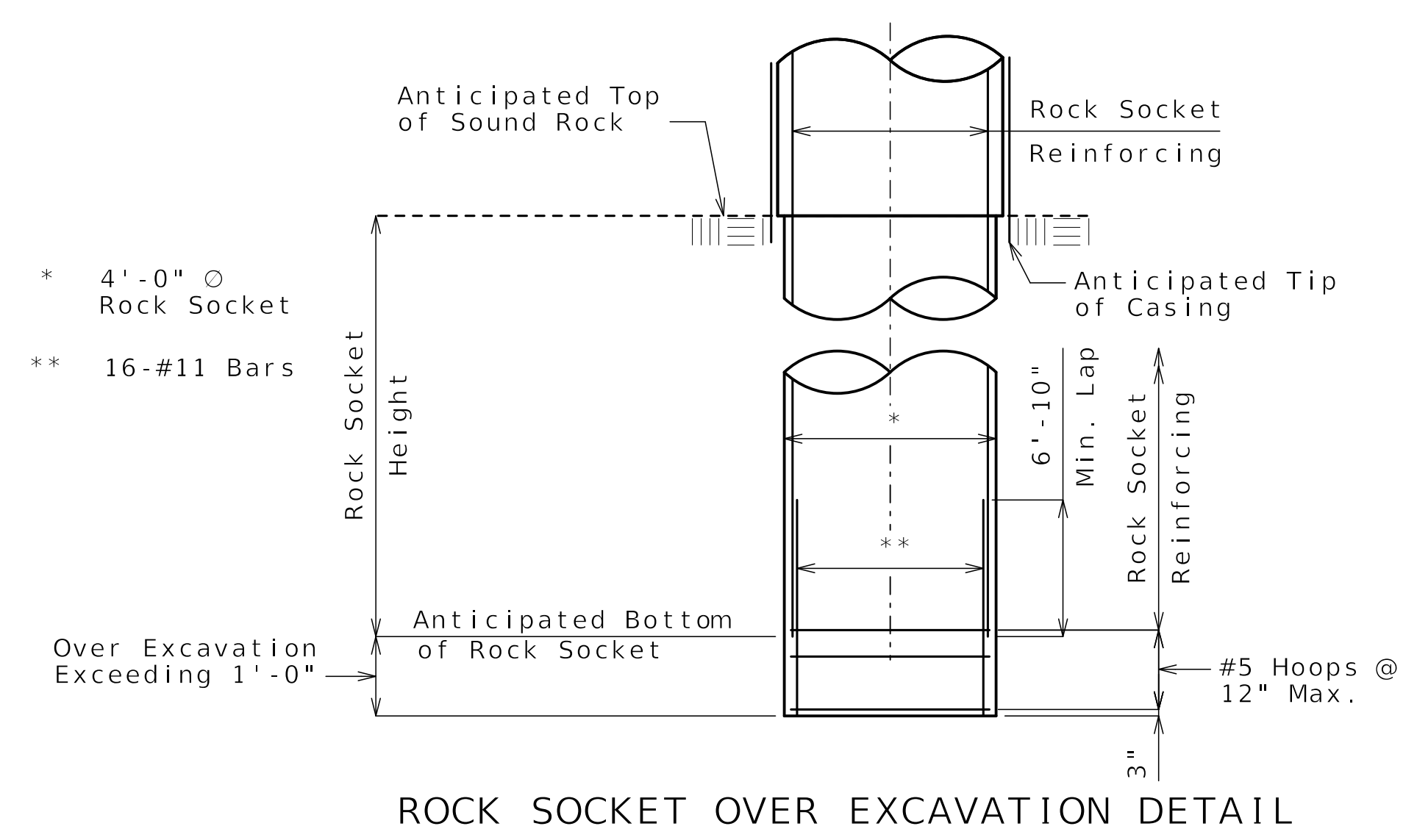
Form sheets shall not rest directly on the top of girder flanges. Sheets shall be securely fastened to form supports with a minimum bearing length of one inch on each end. Form supports shall be placed in direct contact with the flange. Welding on or drilling holes in the girder flanges will not be permitted. 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 girder loading.

Foundation Data					
Type	Design Data	Bent Number			
		1	2	3	
Load Bearing Pile	Pile Type and Size	HP12x53	---	HP12x53	
	Number	ea 10	---	10	
	Approximate Length Per Each	ft 31	---	40	
	Pile Point Reinforcement	ea ---	---	---	
	Min. Galvanized Penetration (Elev.)	ft Full Length	---	Full Length	
	Minimum Tip Penetration (Elev.)	ft 892	---	892	
	Criteria for Min. Tip Penetration	Min. Embed	---	Min. Embed	
	Pile Driving Verification Method	N/A	---	N/A	
	Resistance Factor	0.50	---	0.50	
	Minimum Nominal Axial Compressive Resistance	kip	529	---	529
Rock Socket	Number	ea ---	4	---	
	Layer 1	Foundation Material	---	Limestone	---
		Elevation Range	ft ---	897-889	---
	Layer 2	Minimum Nominal Axial Compressive Resistance (Side Resistance)	ksf ---	28.0	---
		Foundation Material	---	Shale	---
	Layer 3	Elevation Range	ft ---	889-886	---
		Minimum Nominal Axial Compressive Resistance (Side Resistance)	ksf ---	11.2	---
	Layer 3	Foundation Material	---	Limestone & Shale	---
		Elevation Range	ft ---	886-878	---
	Layer 3	Minimum Nominal Axial Compressive Resistance (Side Resistance)	ksf ---	12.0	---
Minimum Nominal Axial Compressive Resistance (Tip Resistance)		ksf ---	330.0	---	

**Load Bearing Piles:**  
 Minimum Nominal Axial Compressive Resistance = Maximum Factored Loads/Resistance Factor  
 Prebore for piles at End Bents No. 1 and 3 to elevation 892.  
 If optional pile spacers are used, set at least 5 feet below bottom of MSE wall leveling pad.  
 At End Bents No. 1 and 3, verify bottom of the prebore is clean and contains no loose rubble. Set pile and seat with tap of backhoe bucket or equivalent method. Prebore shall be backfilled with Class B concrete to elevation 897. Backfill remaining length of prebore per Sec 702.  
 All piles shall be galvanized down to the minimum galvanized penetration (elevation).  
 The contractor shall make every effort to achieve the minimum galvanized penetration (elevation) shown on the plans for all piles. Deviations in penetration less than 5 feet of minimum will be considered acceptable provided the contractor makes the necessary corrections to ensure the minimum penetration is achieved on subsequent piles.

**Rock Socket (Drilled Shafts):**  
 Minimum Nominal Axial Compressive Resistance (Side Resistance + Tip Resistance) = Maximum Factored Loads/Resistance Factors  
 Thickness of permanent steel casing shall be in accordance with Project AAS.  
 Sonic logging testing shall be performed on all drilled shafts and rock sockets.  
 Drilled shafts shall be constructed in accordance with project Drilled Shaft AAS.



**ROCK SOCKET OVER EXCAVATION DETAIL**  
 For Rock Socket Details see Intermediate Bent Details

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 Package: BRD-11-27th St.

**GENERAL NOTES**

Detailed MAR 2025  
 Checked APR 2025

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

Sheet No. B11-03 of B11-35

DATE PREPARED: 06/25/2025

ROUTE: I-70 STATE: MO

DISTRICT: BR SHEET NO.: B11-03

COUNTY: JACKSON

JOB NO.: J411486D

CONTRACT ID: 240807-C01

PROJECT NO.:

BRIDGE NO.: A9631

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL JEFFERSON CITY, MO 65102

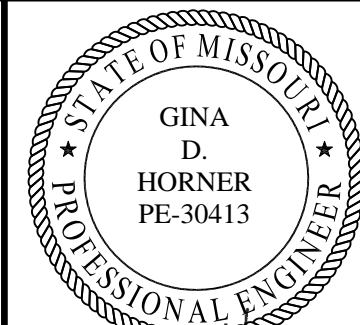
1-888-ASK-MODOT (1-888-275-6636)

CLARKSON RADMACHER JOINT VENTURE

715 KIRK DRIVE KANSAS CITY, MO 64105-1310

CERTIFICATE OF AUTHORITY NO. 001270

**HNTB**



*Gina D. Horner*  
07/02/25

DATE PREPARED  
06/25/2025

ROUTE STATE  
I-70 MO

DISTRICT SHEET NO.  
BR B11-04

COUNTY  
JACKSON

JOB NO.  
J411486D

CONTRACT ID.  
240807-C01

PROJECT NO.

BRIDGE NO.  
A9631

DESCRIPTION  
REV 0 - RFC SUBMITTAL

DATE  
06/25/25

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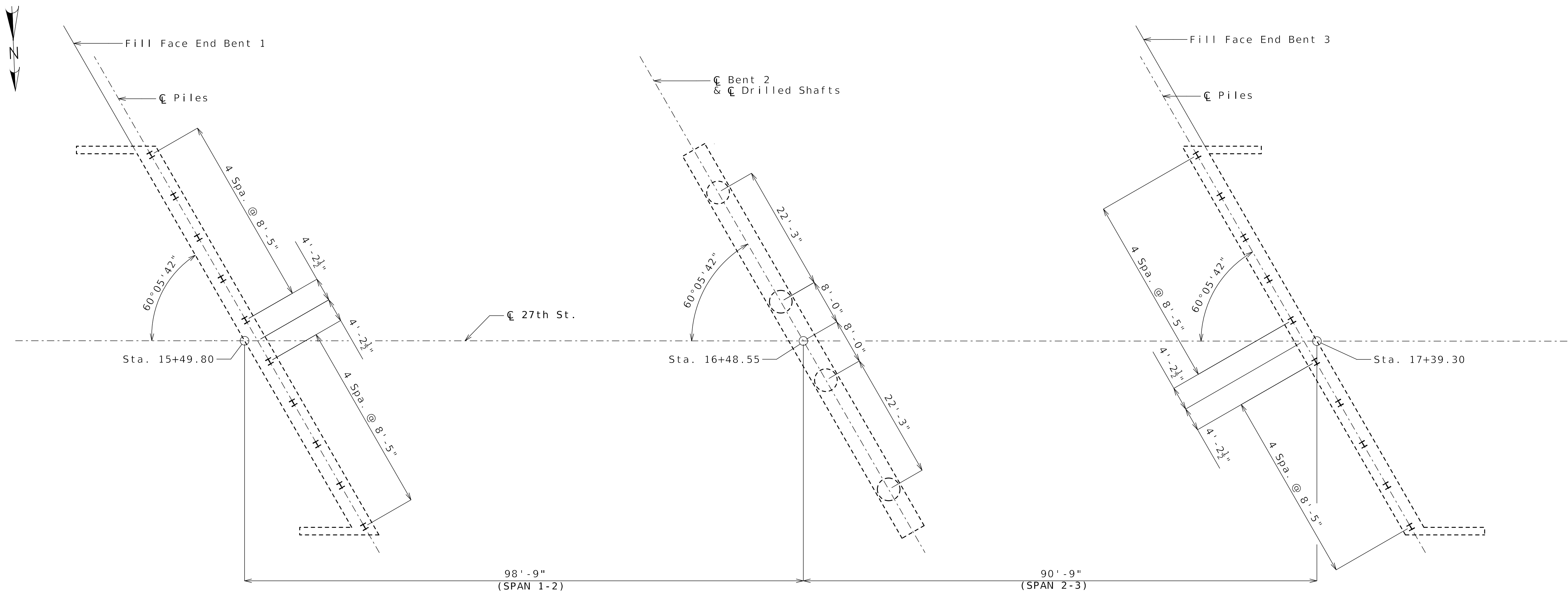
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CLARKSON  
RADMACHER  
JOINT VENTURE

715 KIRK DRIVE  
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NO. 001270

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SUBSTRUCTURE LAYOUT

Notes:  
All dimensions are horizontal.

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SUBSTRUCTURE LAYOUT

Detailed MAR 2025  
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Sheet No. B11-04 of B11-35



Gina D. Horner  
07/02/25

DATE PREPARED  
06/25/2025

ROUTE STATE  
I-70 MO  
DISTRICT SHEET NO.  
BR B11-05

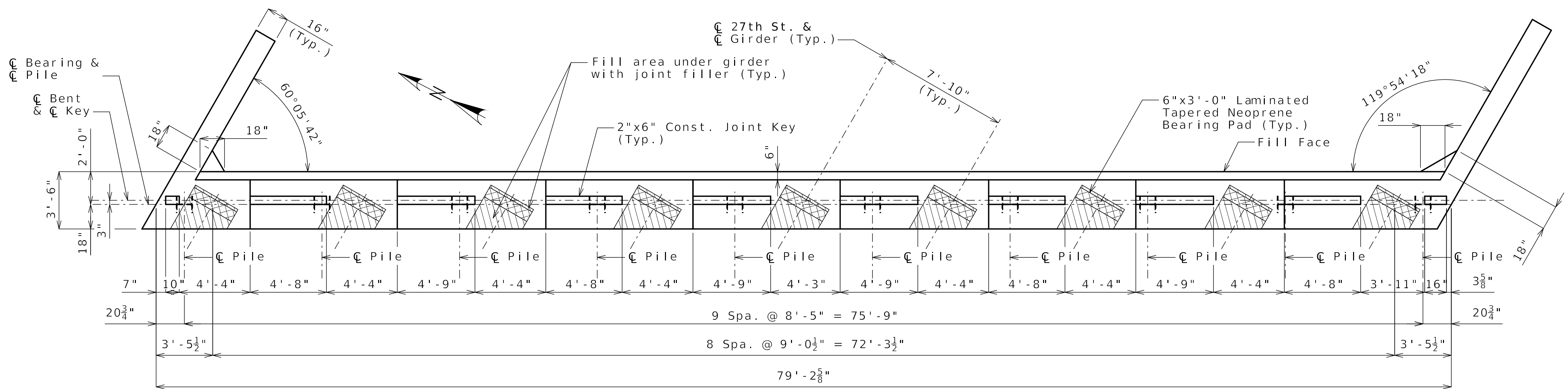
COUNTY  
JACKSON  
JOB NO.  
J411486D  
CONTRACT ID.  
240807-C01  
PROJECT NO.

BRIDGE NO.  
A9631

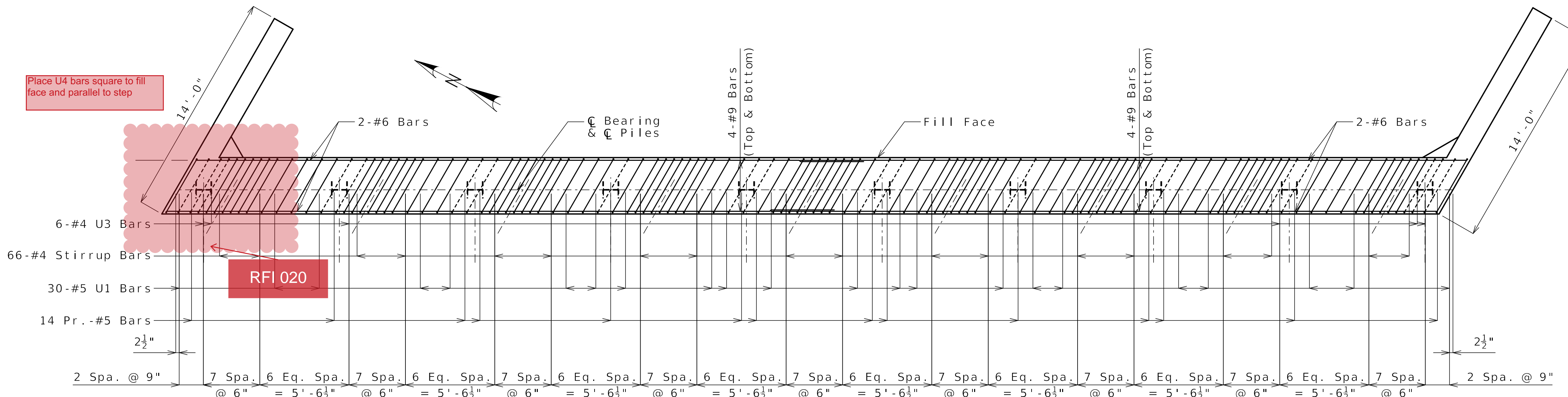
DATE	DESCRIPTION
06/25/25 <td>REV 0 - RFC SUBMITTAL</td>	REV 0 - RFC SUBMITTAL

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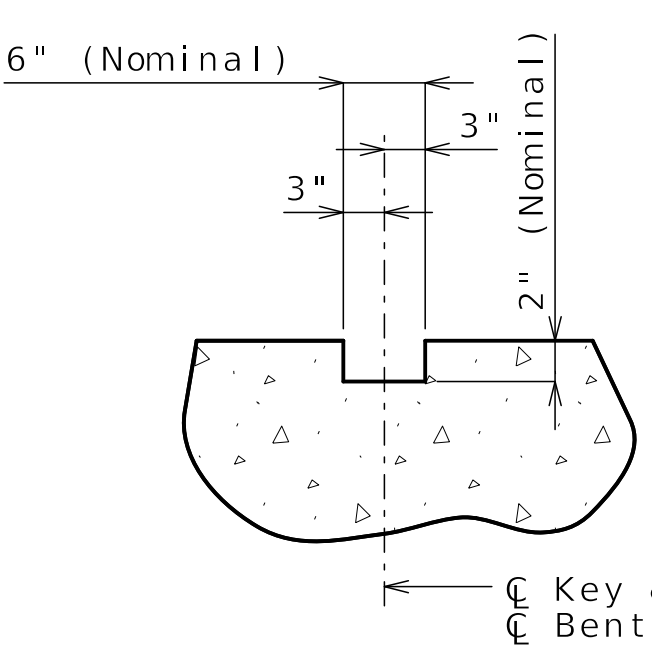
CLARKSON RADMACHER JOINT VENTURE  
715 KIRK DRIVE  
KANSAS CITY, MO 64105-1310  
CERTIFICATE OF AUTHORITY  
NO. 001270  
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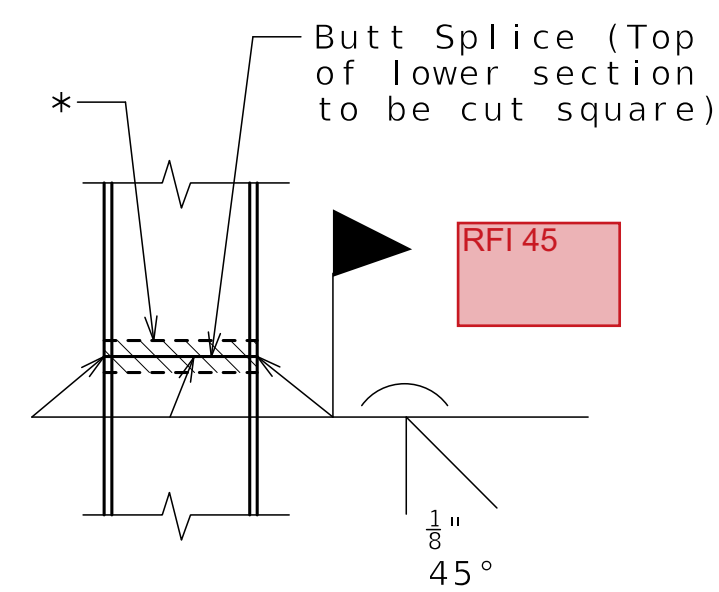
PLAN OF BEAM



PLAN OF BEAM SHOWING REINFORCING  
(Key and steps not shown for clarity)

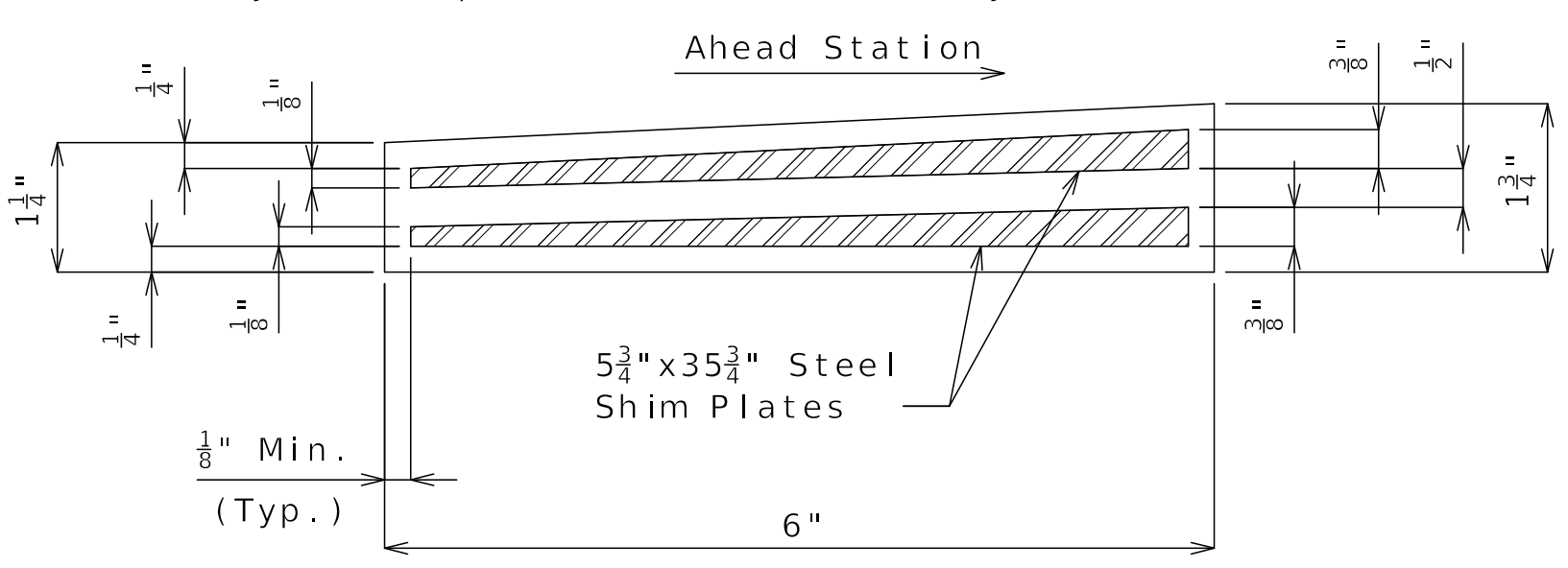


SECTION THRU KEY



STEEL PILE SPLICE  
(If required)

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



TYPICAL SECTION THRU LAMINATED NEOPRENE BEARING PAD (TAPERED)  
9 Required per Bent

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Notes:  
Work this sheet with Sheets No. B11-06 and B11-07.  
All U bars and pairs of vertical bars shall be placed along skew.  
Reinforcing steel shall be shifted to clear piles. U-bars shall clear piles by at least 1 1/2".  
For details of bridge approach slab, see Sheet No. B11-30.

DETAILS OF END BENT NO. 1



Gina D. Horner  
07/02/25

DATE PREPARED  
06/25/2025

ROUTE 1-70 STATE MO

DISTRICT BR SHEET NO. B11-06

COUNTY JACKSON

JOB NO. J411486D

CONTRACT ID. 240807-C01

PROJECT NO.

BRIDGE NO. A9631

DESCRIPTION

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DATE 06/25/25

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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105 WEST CAPITOL JEFFERSON CITY, MO 65102

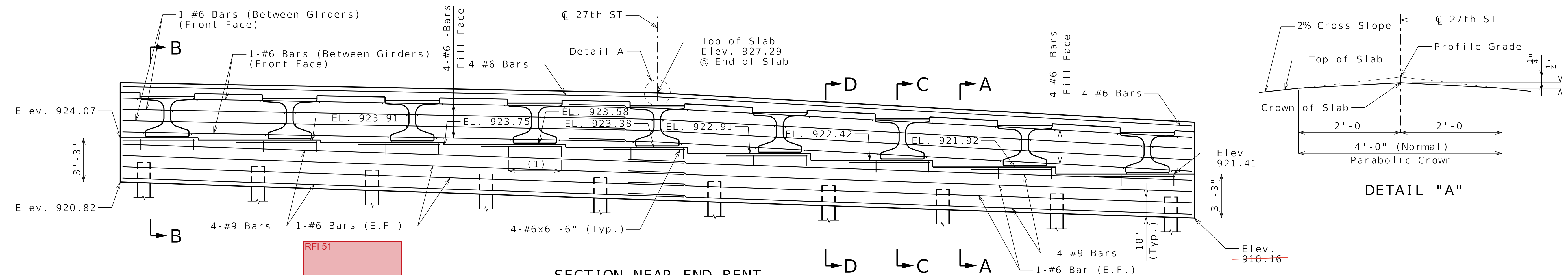
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CERTIFICATE OF AUTHORITY NO. 001270

CLARKSON RADMACHER JOINT VENTURE

715 KIRK DRIVE KANSAS CITY, MO 64105-1310

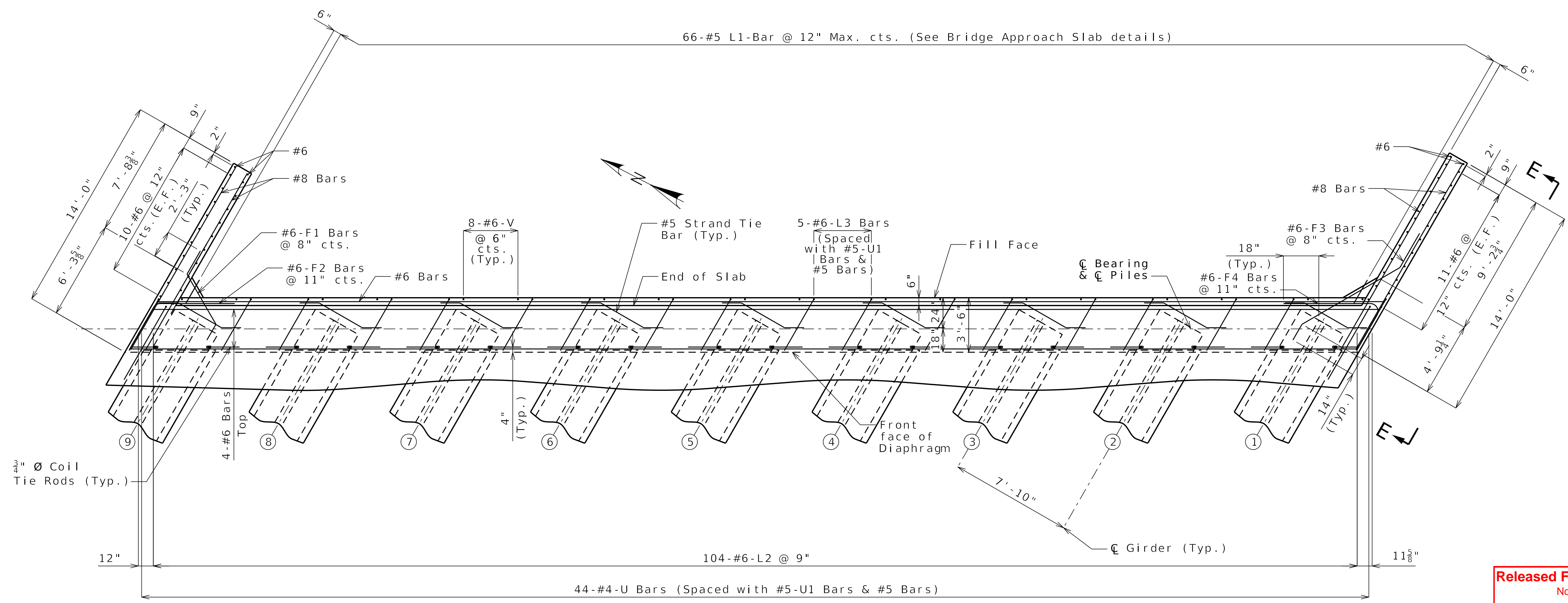
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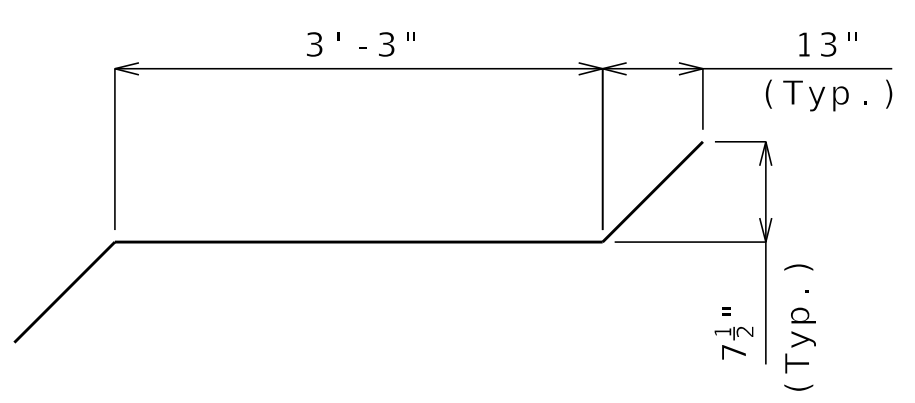
SECTION NEAR END BENT (Looking Back Station)

(1) 8-#4-U4 Bars @ 6" Spa. under girders. Bars shall be placed normal to  $\bar{C}$  Bent and parallel to beam step.(Typ.)

Notes:  
Lap Splice for #6 bars = 4'-3" (Min.)  
Lap Splice for #9 bars = 6'-5" (Min.)



PART PLAN



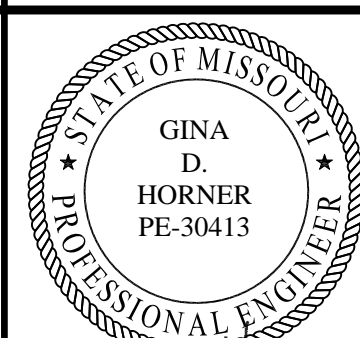
#5 STRAND TIE BAR

General Notes:  
Work this sheet with Sheets No. B11-05 and B11-07. For Sections A-A, B-B, C-C and D-D and Elevation E-E, see Sheet No. B11-07. Strands at end of the girders shall be field bent or, if necessary, cut in field to maintain 1 1/2-inch minimum clearance to fill face of end bent. The #6-F bars shall be bent in the field to clear girders. For location of coil tie rods, see Sheet No. B11-15.

(X) Denotes girder number

DETAILS OF END BENT NO. 1

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Revision: 0.0  
Date: 07/07/2025  
Package: BRD-11-27th St.



Gina D. Horner  
07/02/25

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06/25/2025

ROUTE 1-70 STATE MO

DISTRICT BR SHEET NO. B11-07

COUNTY JACKSON

JOB NO. J411486D

CONTRACT ID. 240807-C01

PROJECT NO.

BRIDGE NO. A9631

DESCRIPTION

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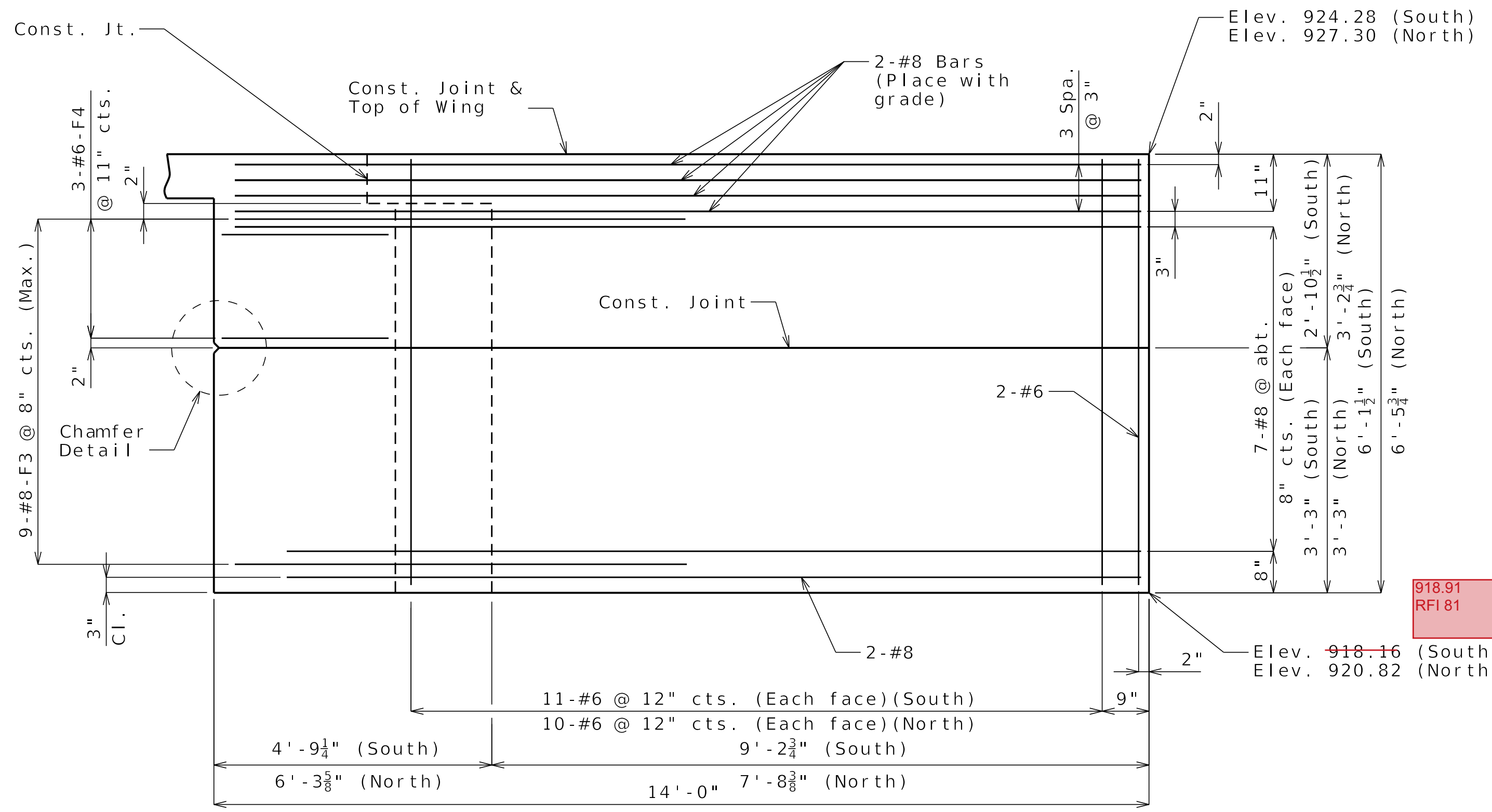
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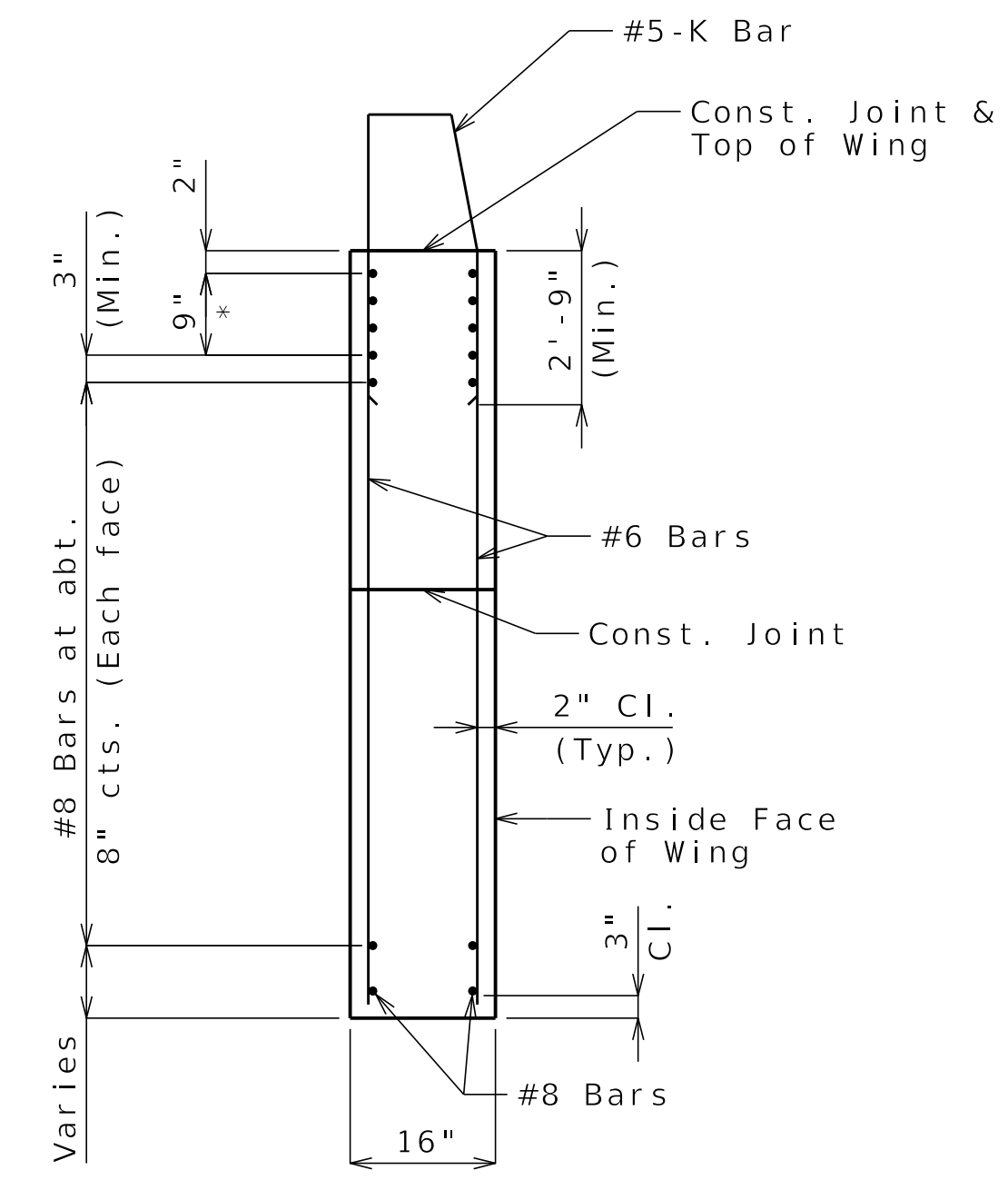
CLARKSON RADMACHER JOINT VENTURE

715 KIRK DRIVE KANSAS CITY, MO 64105-1310

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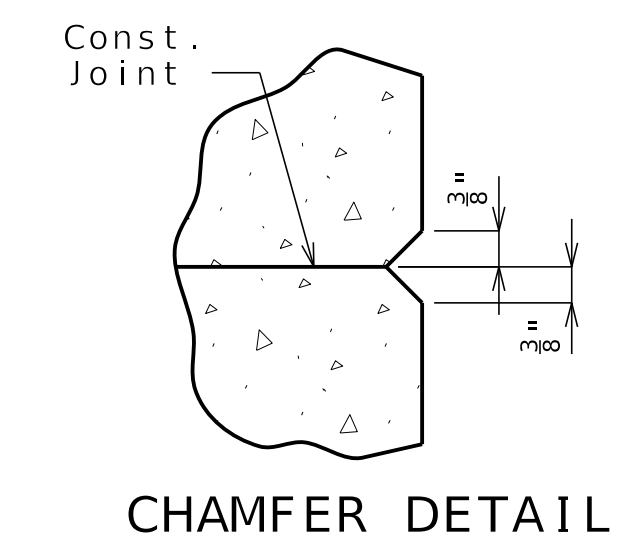


**ELEVATION E-E**  
(South Wingwall shown, North wingwall similar except opposite hand)

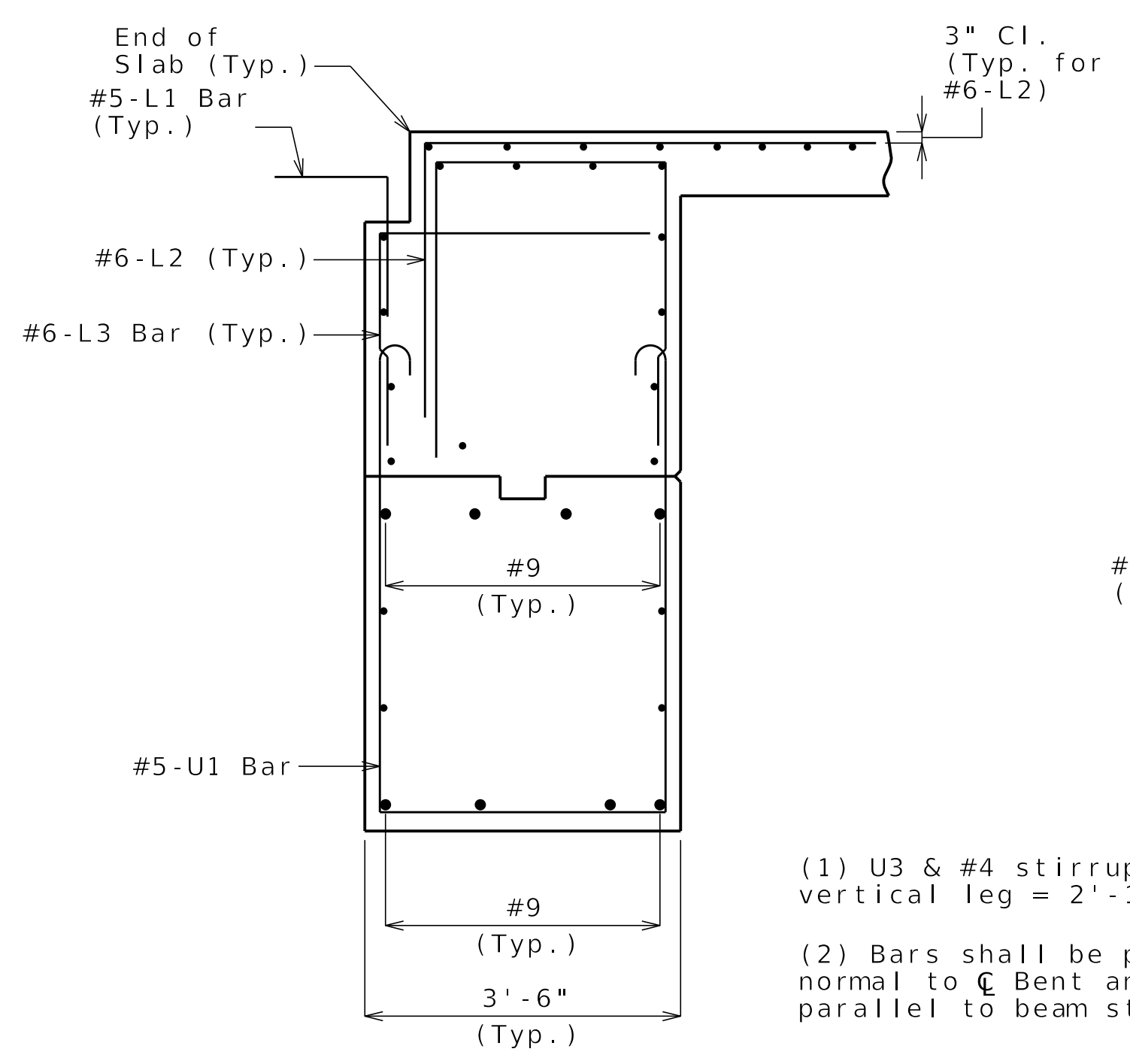


**TYPICAL SECTION THRU WING**

\*#8 Bars at 3" cts. (Each face) (Place with grade)  
See Elevation E-E for number of bars

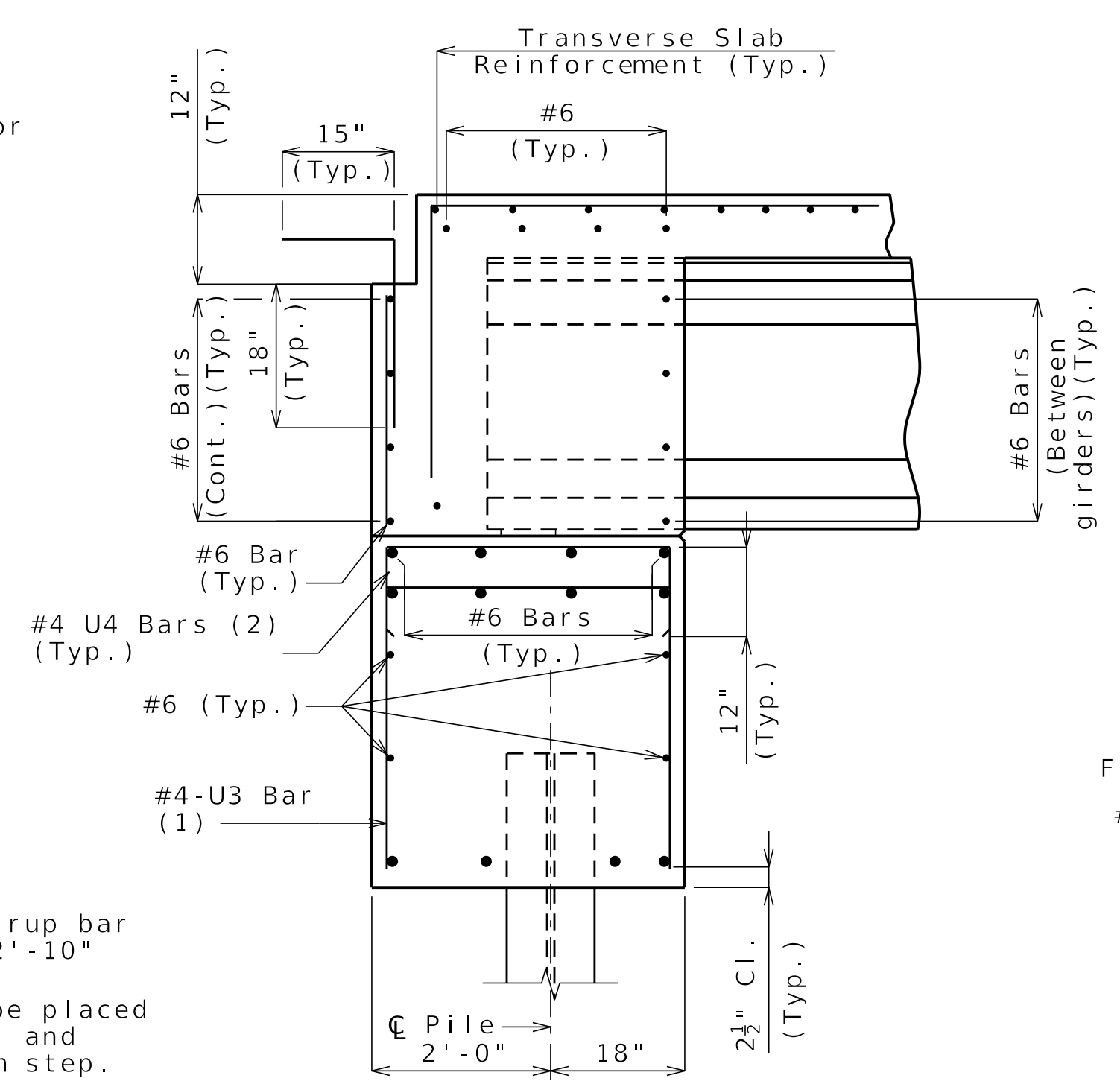


**CHAMFER DETAIL**

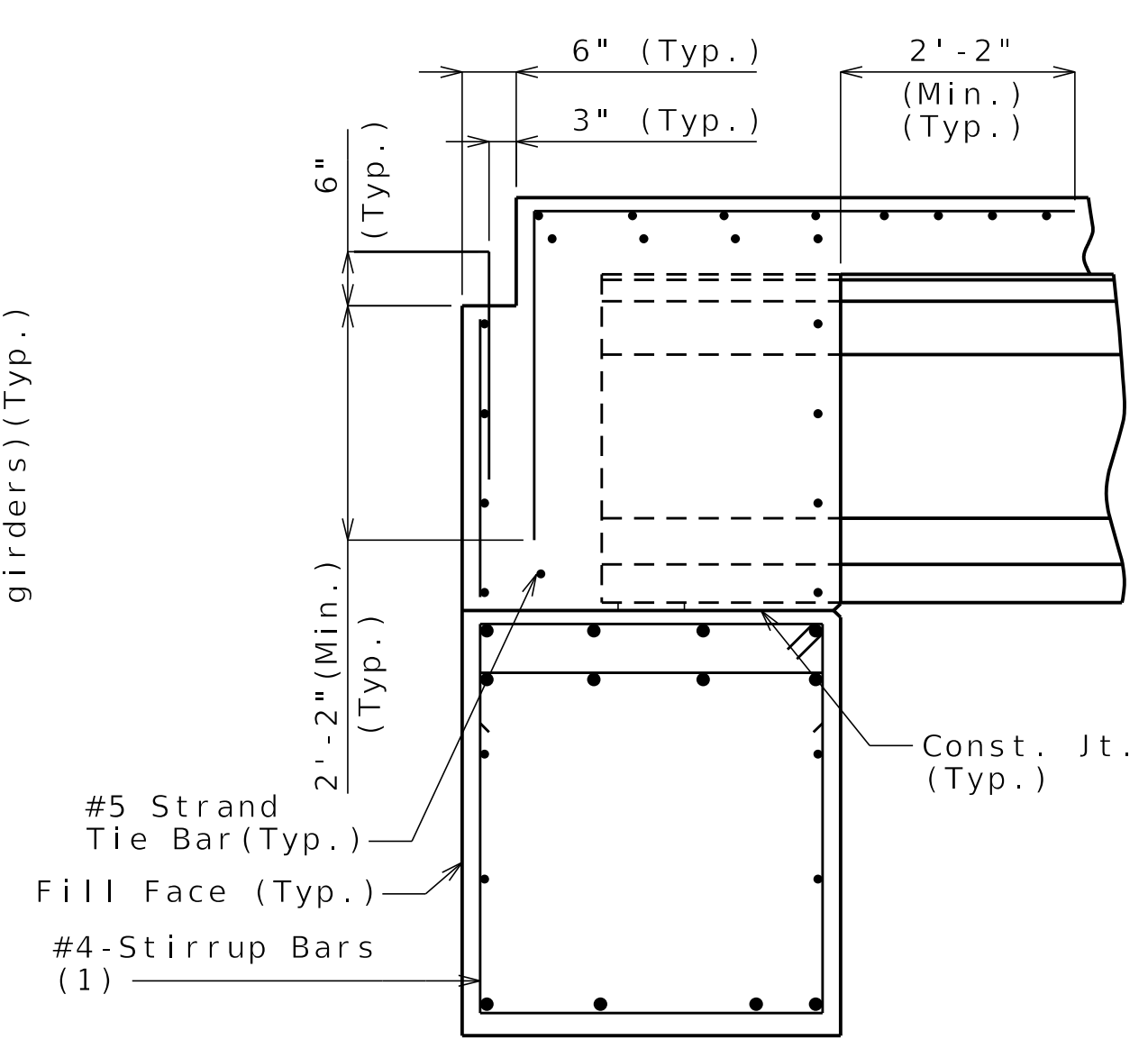


**SECTION A-A**

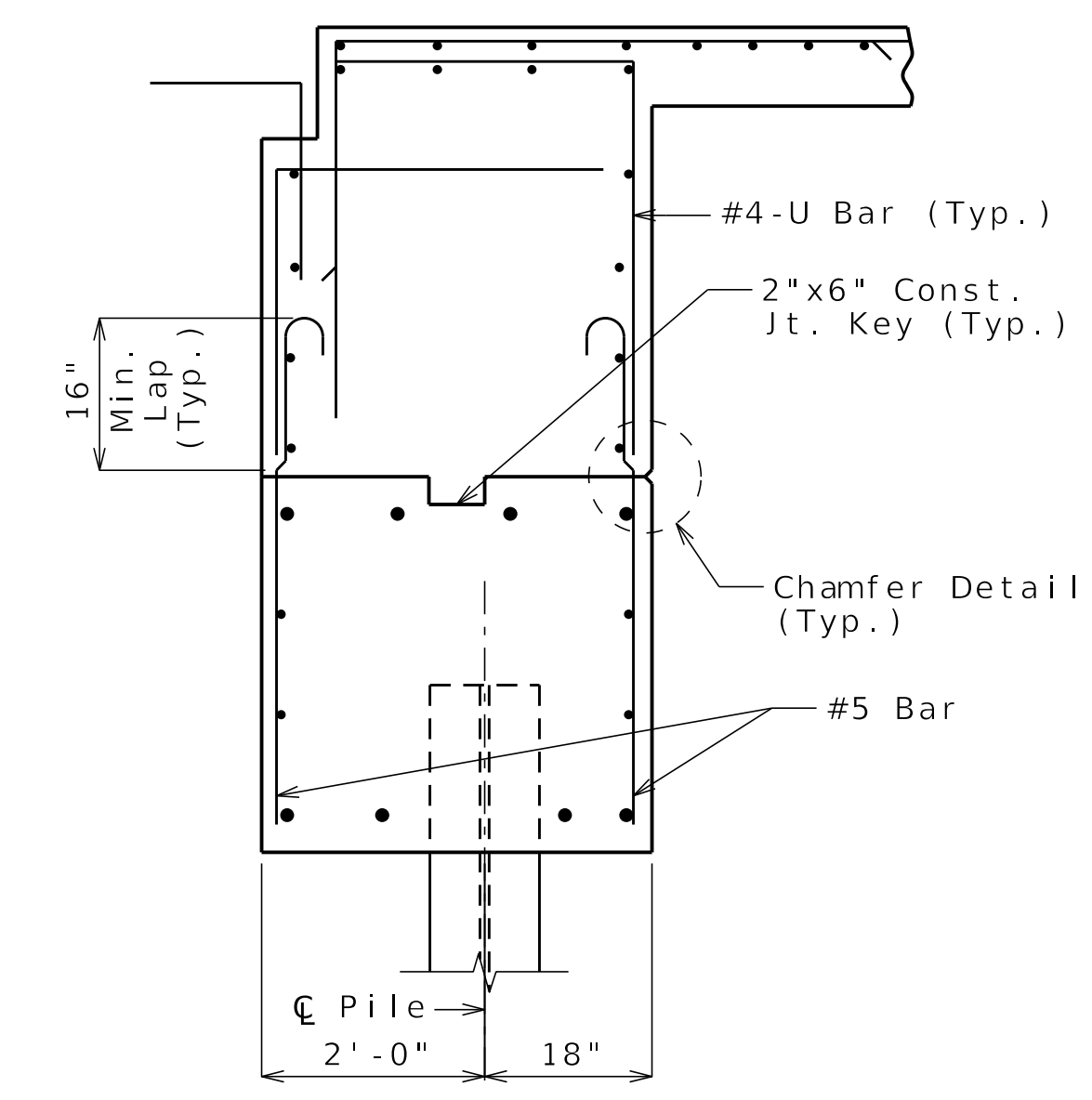
- (1) U3 & #4 stirrup bar vertical leg = 2'-10"
- (2) Bars shall be placed normal to  $\phi$  Bent and parallel to beam step.



**SECTION B-B**



**SECTION C-C**



**SECTION D-D**

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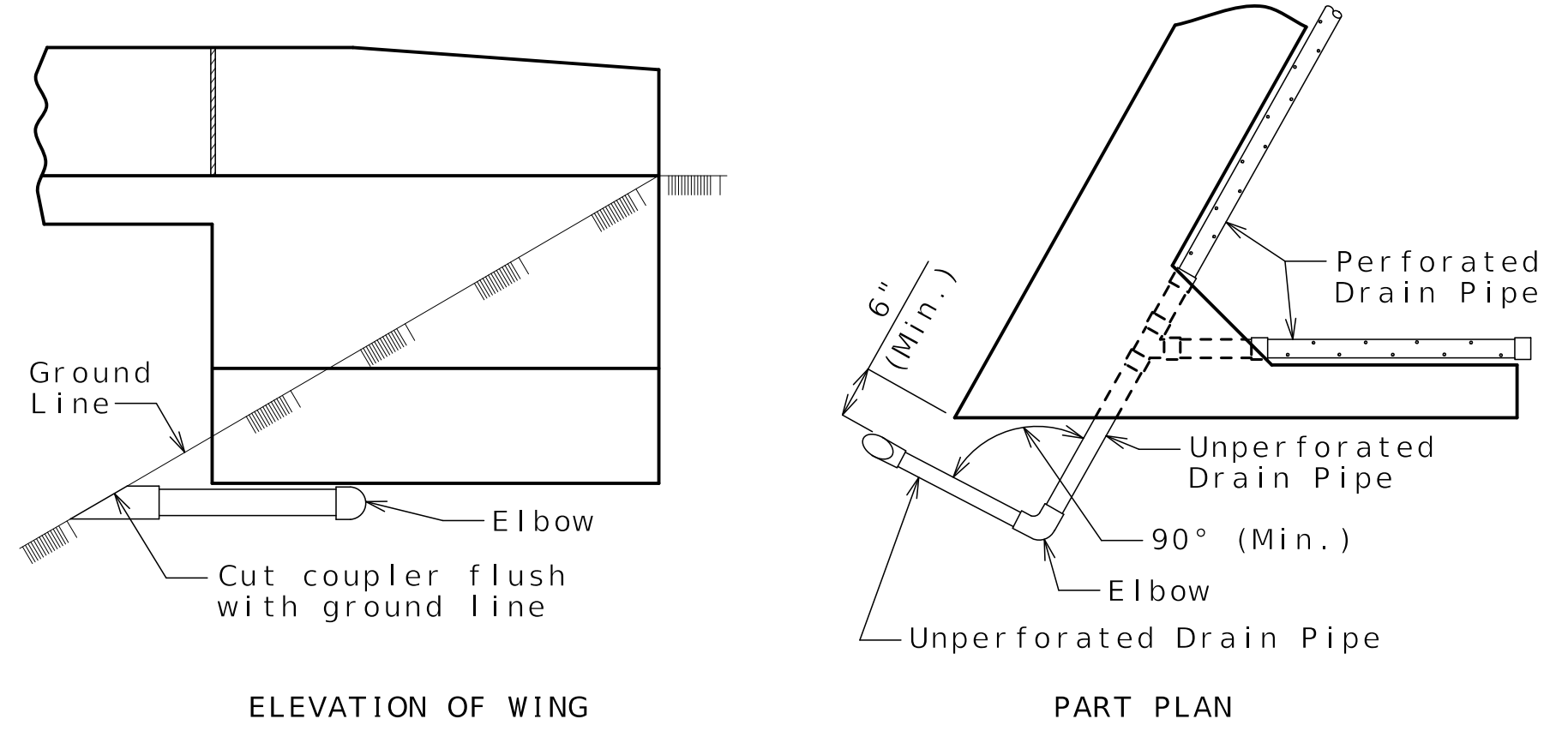
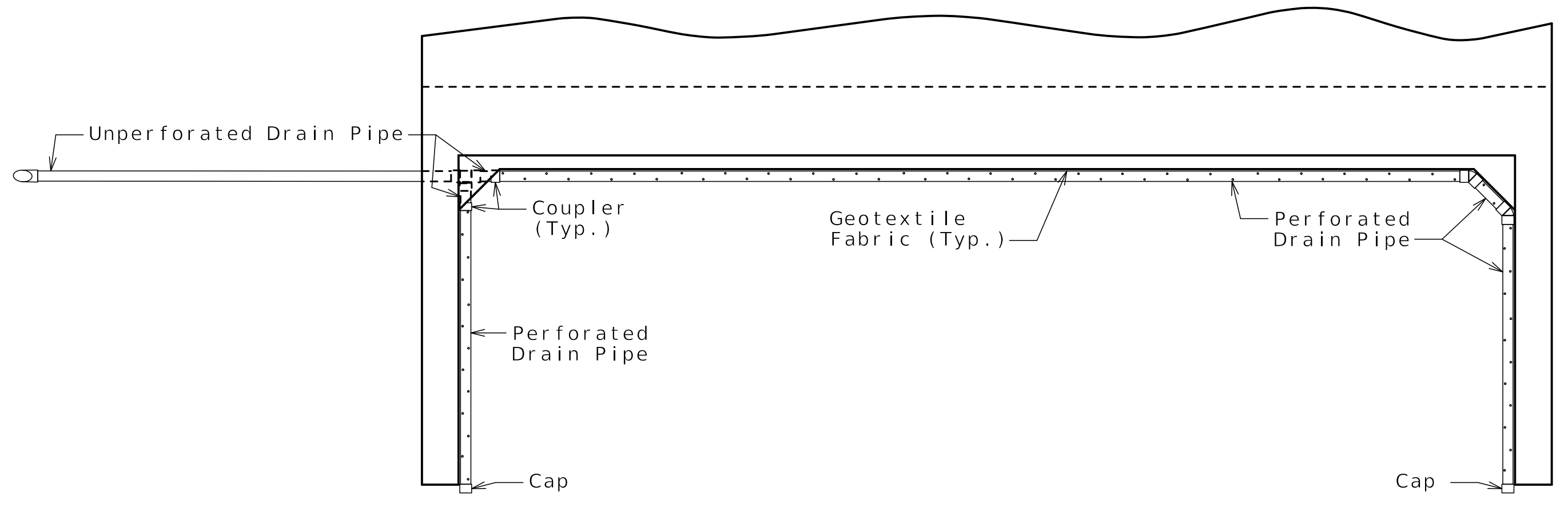
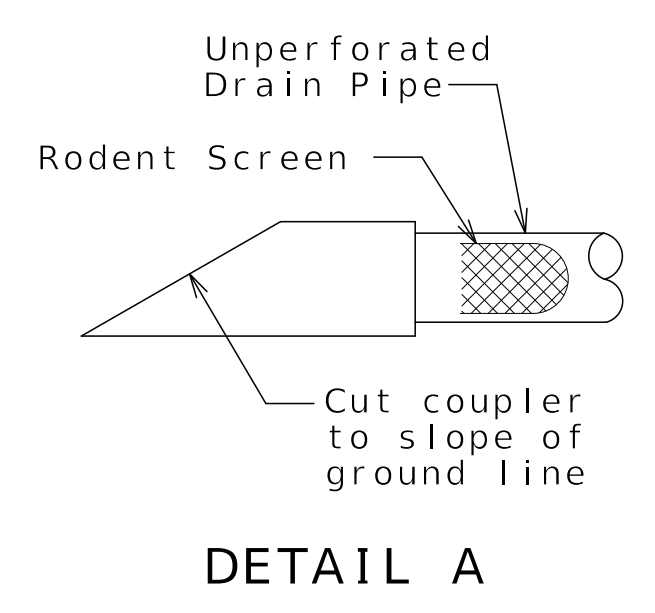
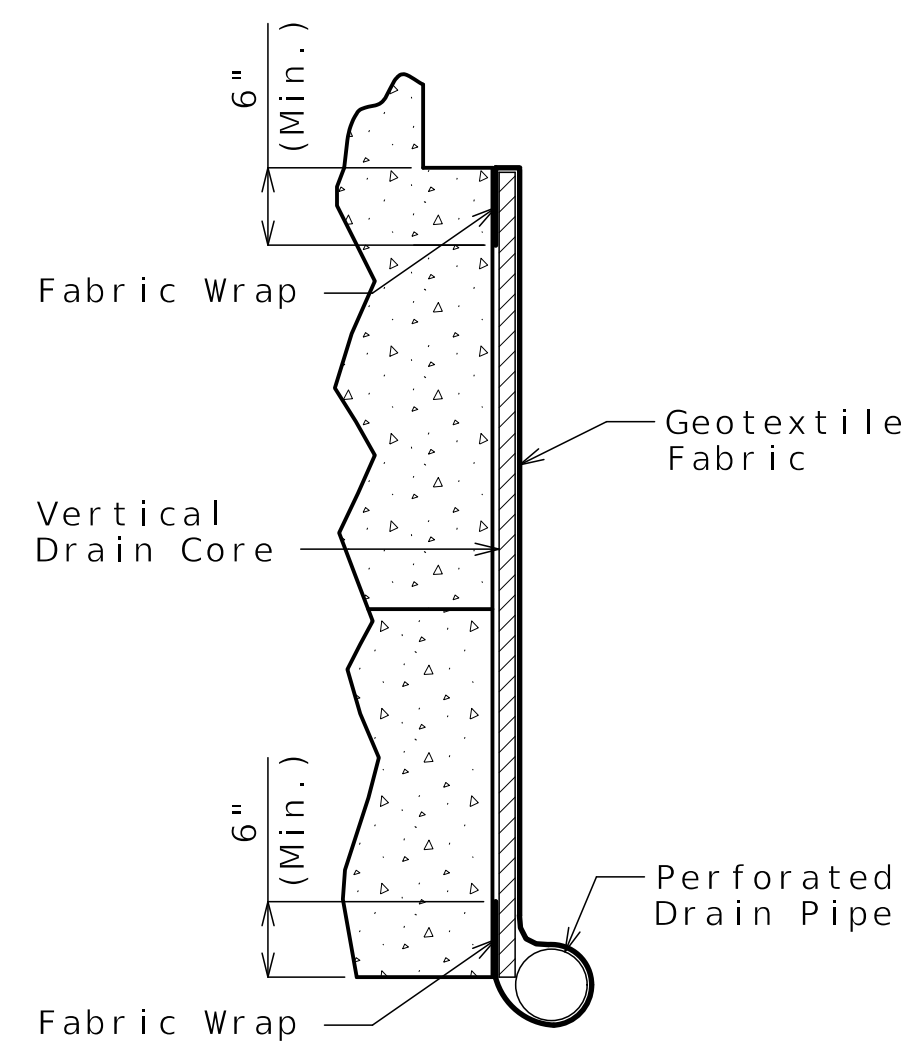
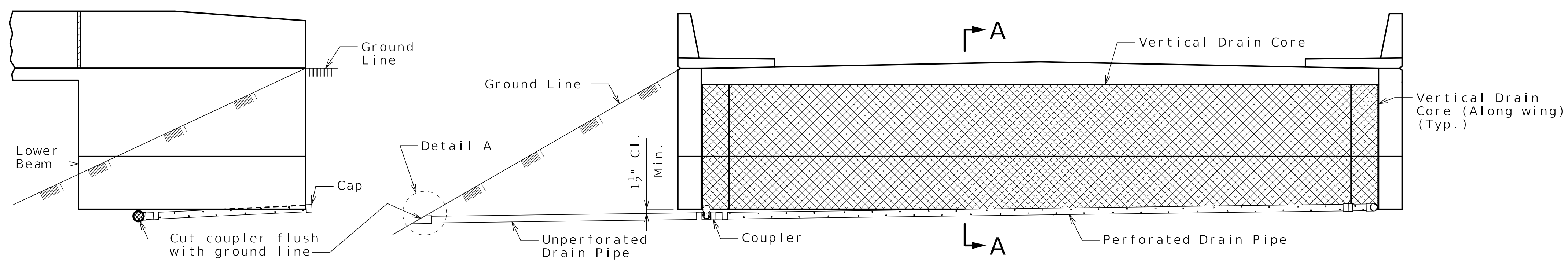
General Notes:  
Work this sheet with Sheets No. B11-05 and B11-06.  
For location of Sections A-A, B-B, C-C, D-D and Elevation E-E, see Sheet No. B11-06.  
For reinforcement of the Type D Barrier, see Sheet No. B11-25.

**DETAILS OF END BENT NO. 1**

Detailed MAR 2025  
Checked APR 2025

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

Sheet No. B11-07 of B11-35



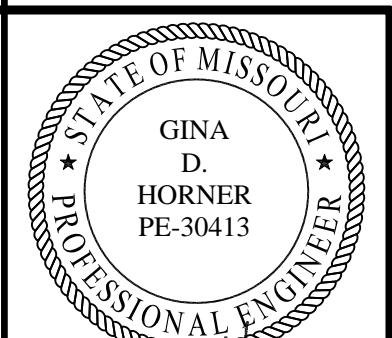
**OPTIONAL TURNED DRAIN**  
(Use only when straight drain is not practical.)

**General Notes:**

- Squared end bent shown, skewed end bent similar.
- 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.
- If free draining granular fill material is used behind end bent and wingwalls, and if water can freely gravity drain to lower select granular backfill for structural system of MSE wall, then drain pipes are not required and internal drainage system of MSE wall can be used to collect water from Vertical Strip Drain.

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**VERTICAL DRAIN AT END BENTS**



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07/02/25

DATE PREPARED 06/25/2025	
ROUTE I-70	STATE MO
DISTRICT BR	SHEET NO. B11-08
COUNTY JACKSON	
JOB NO. J411486D	
CONTRACT ID. 240807-C01	
PROJECT NO.	

BRIDGE NO.  
A9631

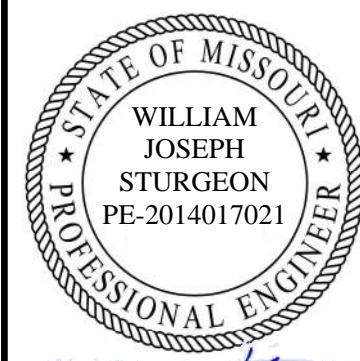
DATE	DESCRIPTION
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**CLARKSON RADMACHER**  
JOINT VENTURE

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



7/2/2025

DATE PREPARED  
06/25/2025

ROUTE 1-70 STATE MO

DISTRICT BR SHEET NO. B11-09

COUNTY JACKSON

JOB NO. J411486D

CONTRACT ID. 240807-C01

PROJECT NO.

BRIDGE NO. A9631

DESCRIPTION

REV 0 - RFC SUBMITTAL

DATE 06/25/25

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL JEFFERSON CITY, MO 65102

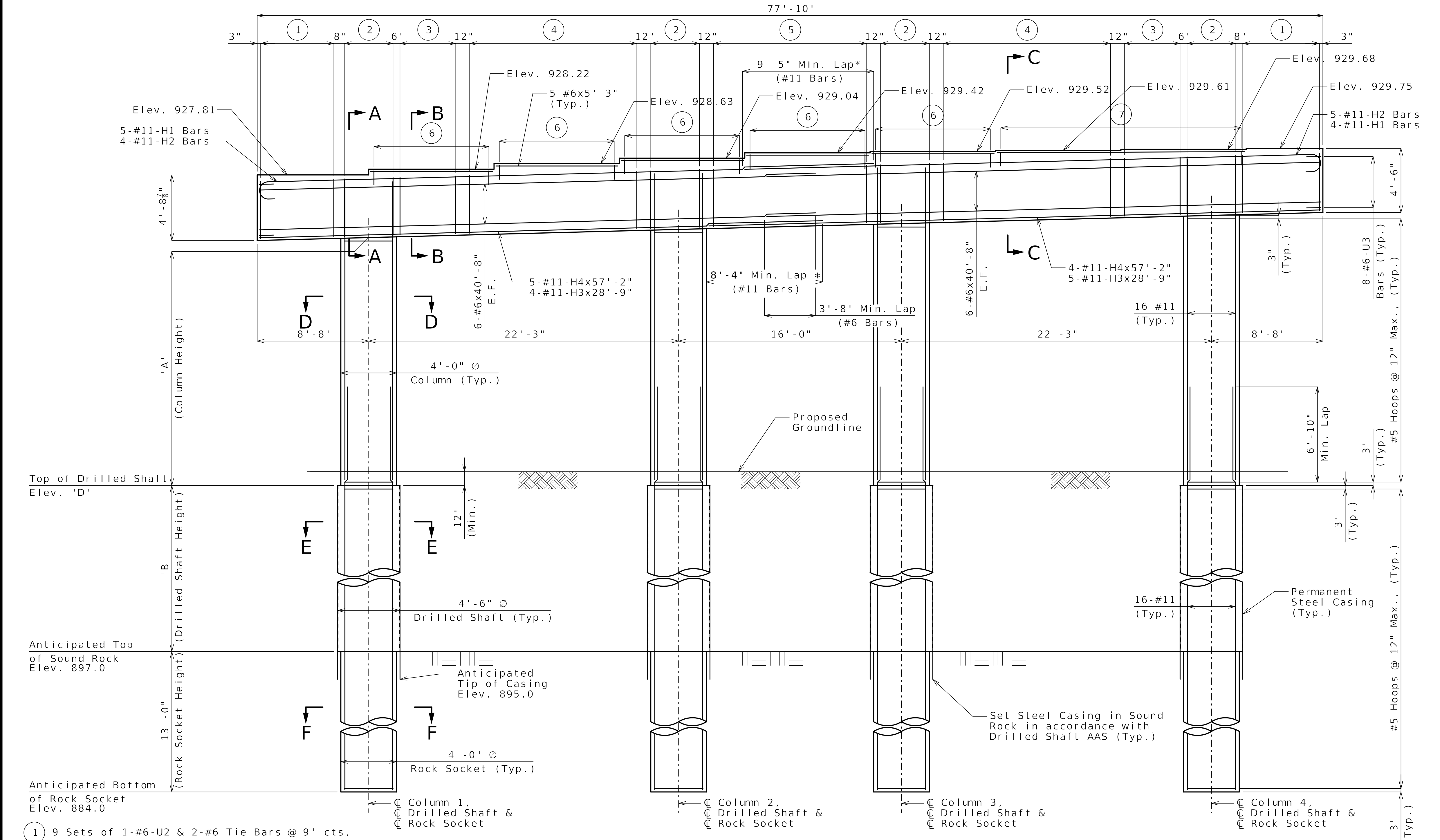
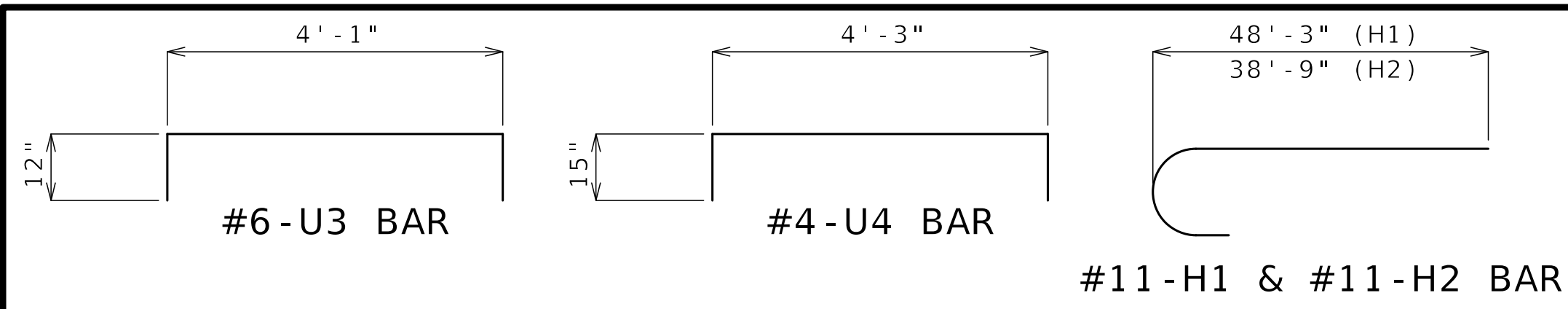
1-888-ASK-MODOT (1-888-275-6636)

CERTIFICATE OF AUTHORITY NO. 001270

CLARKSON RADMACHER JOINT VENTURE

715 KIRK DRIVE KANSAS CITY, MO 64105-1310

HNTB



- ① 9 Sets of 1-#6-U2 & 2-#6 Tie Bars @ 9" cts.
- ② 4-#6-U1 @ 14" cts.
- ③ 9 Sets of 1-#6-U2 & 2-#6 Tie Bars @ 6" cts.
- ④ 13-#6-U2 @ 12" cts.
- ⑤ 12-#6-U2 @ 12" cts.
- ⑥ 18-#4-U4 @ 6" Spa.
- ⑦ 36-#4-U4 @ 6" Spa.

Column Number	"A"	"B"	"D"
1	17'-3 <sup>3</sup> / <sub>8</sub> "	9'-0"	906.0
2	16'-11 <sup>1</sup> / <sub>2</sub> "	10'-0"	907.0
3	16'-10 <sup>5</sup> / <sub>8</sub> "	10'-6"	907.5
4	16'-6 <sup>1</sup> / <sub>8</sub> "	11'-6"	908.5

ELEVATION  
(Beam keys not shown for clarity)

Released For Construction  
Not to Scale  
Revision: 0.0  
Date: 07/07/2025  
Package: BRD-11-27th St.

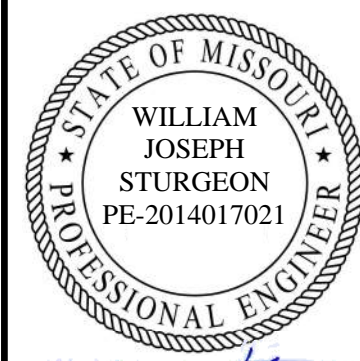
Notes:  
\* Alternate location of lap splices between adjacent bars about centerline of bent. Alternate lap splice location not shown.  
Prior to placing concrete for columns, position of vertical reinforcement shall be verified so as to provide clearance for capbeam reinforcement as applicable.  
Work this sheet with Sheet No. B11-10.  
For location of drilled shafts, see Sheet No. B11-04.  
For Sections A-A thru F-F, see Sheet No. B11-10.

DETAILS OF INTERMEDIATE BENT NO. 2

Detailed MAR 2025  
Checked APR 2025

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

Sheet No. B11-09 of B11-35



7/2/2025

DATE PREPARED  
06/25/2025

ROUTE 1-70 STATE MO

DISTRICT BR SHEET NO. B11-10

COUNTY JACKSON

JOB NO. J411486D

CONTRACT ID. 240807-C01

PROJECT NO.

BRIDGE NO. A9631

DESCRIPTION

REV 0 - RFC SUBMITTAL

DATE 06/25/25

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

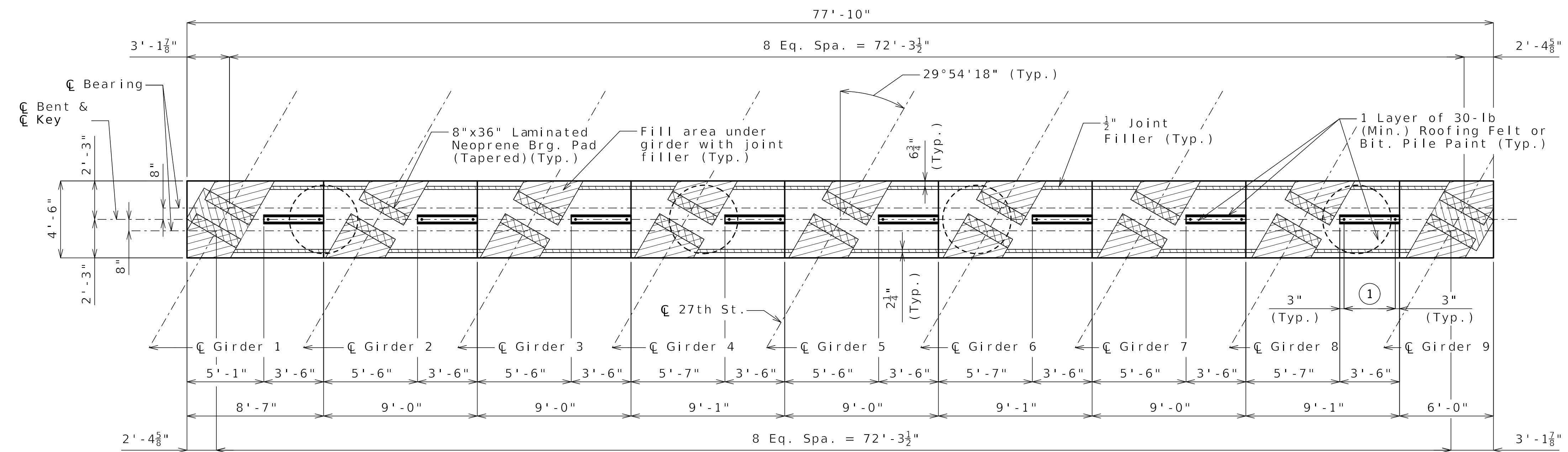
MoDOT

CLARKSON RADMACHER JOINT VENTURE

715 KIRK DRIVE KANSAS CITY, MO 64105-1310

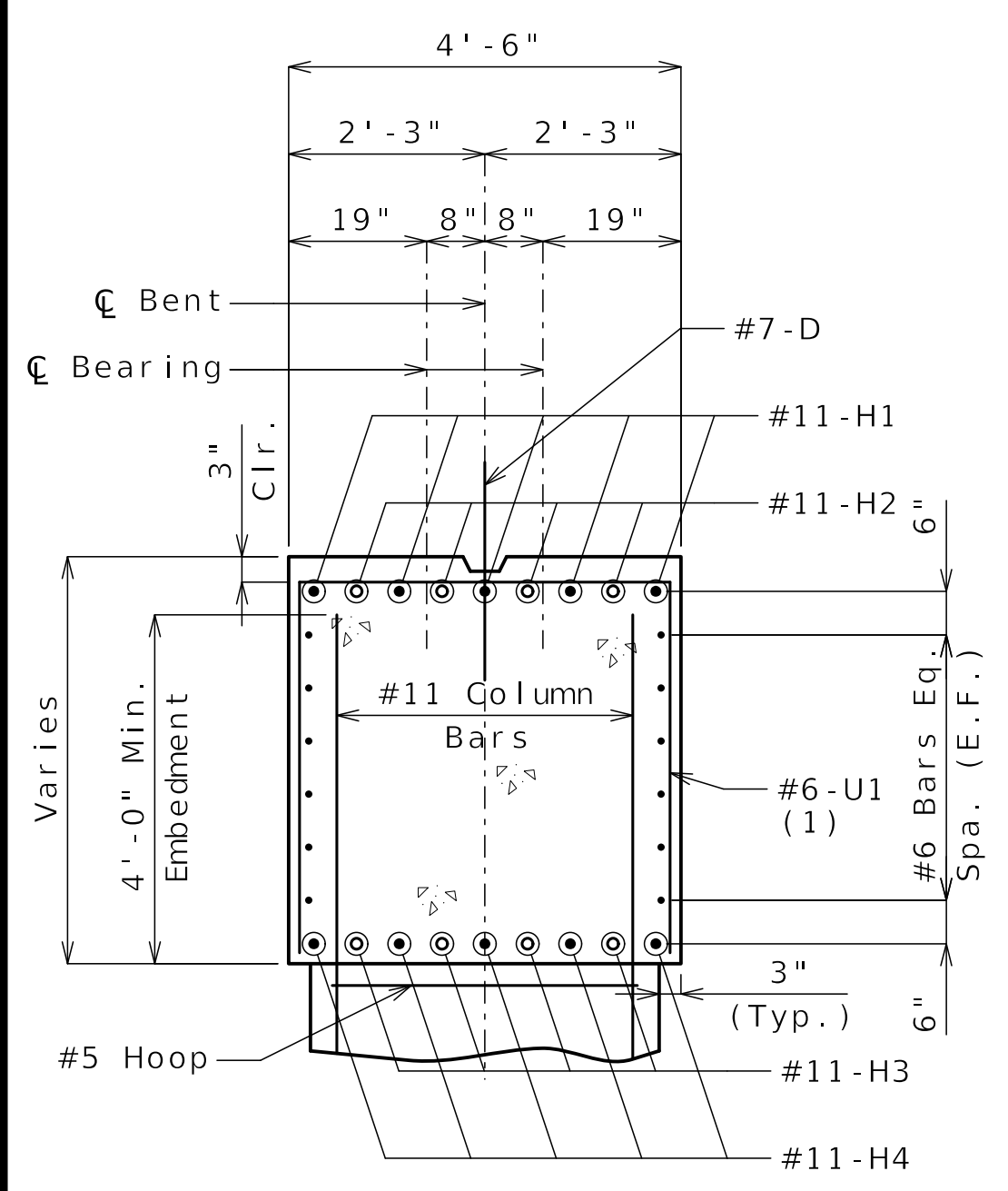
CERTIFICATE OF AUTHORITY NO. 001270

HNTB

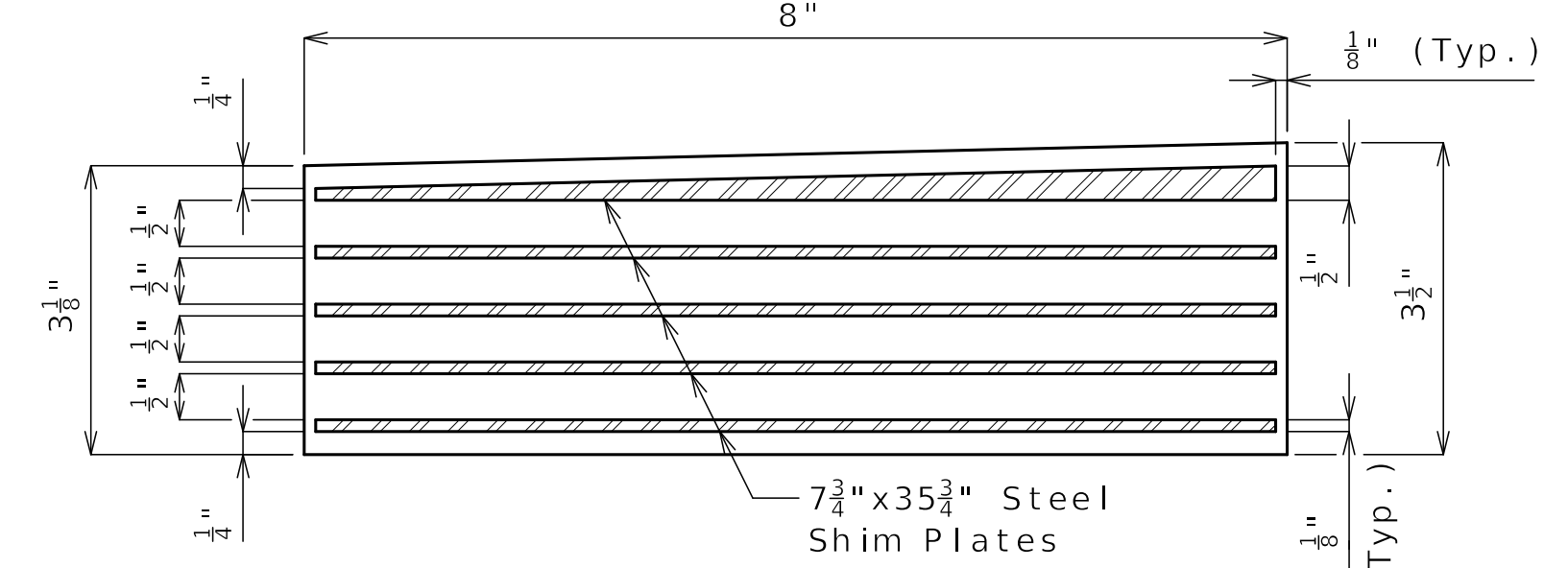


PLAN OF CAPBEAM

① 7-#7-D Bars @ Eq. Spa. (Typ.)

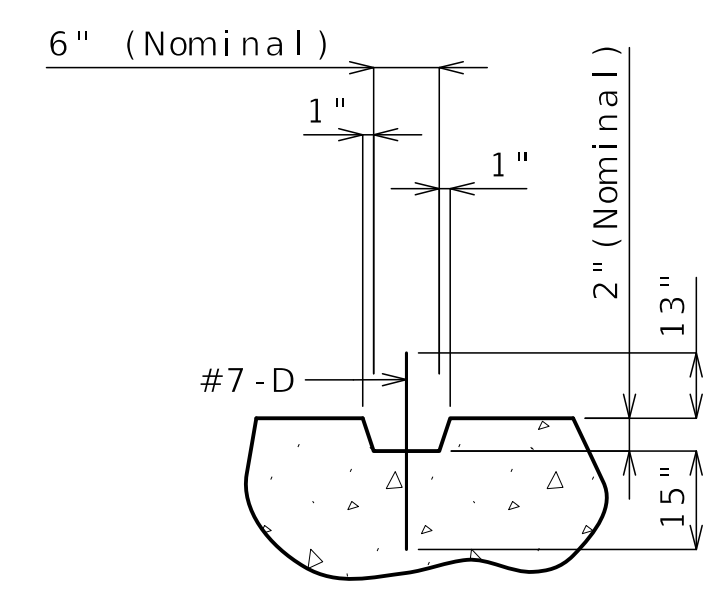


SECTION A-A



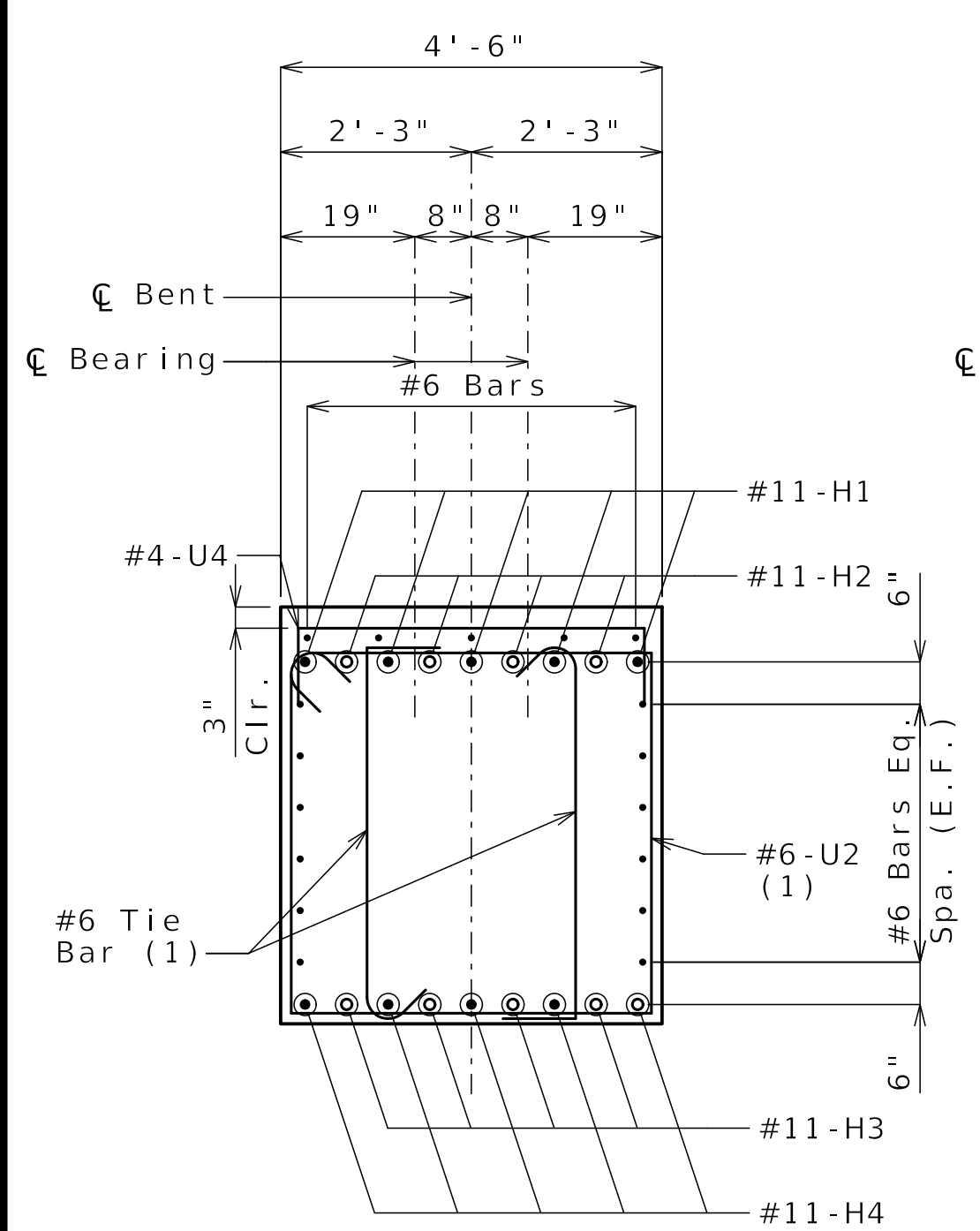
TYPICAL SECTION THRU LAMINATED NEOPRENE BEARING PAD (TAPERED)

18 Required

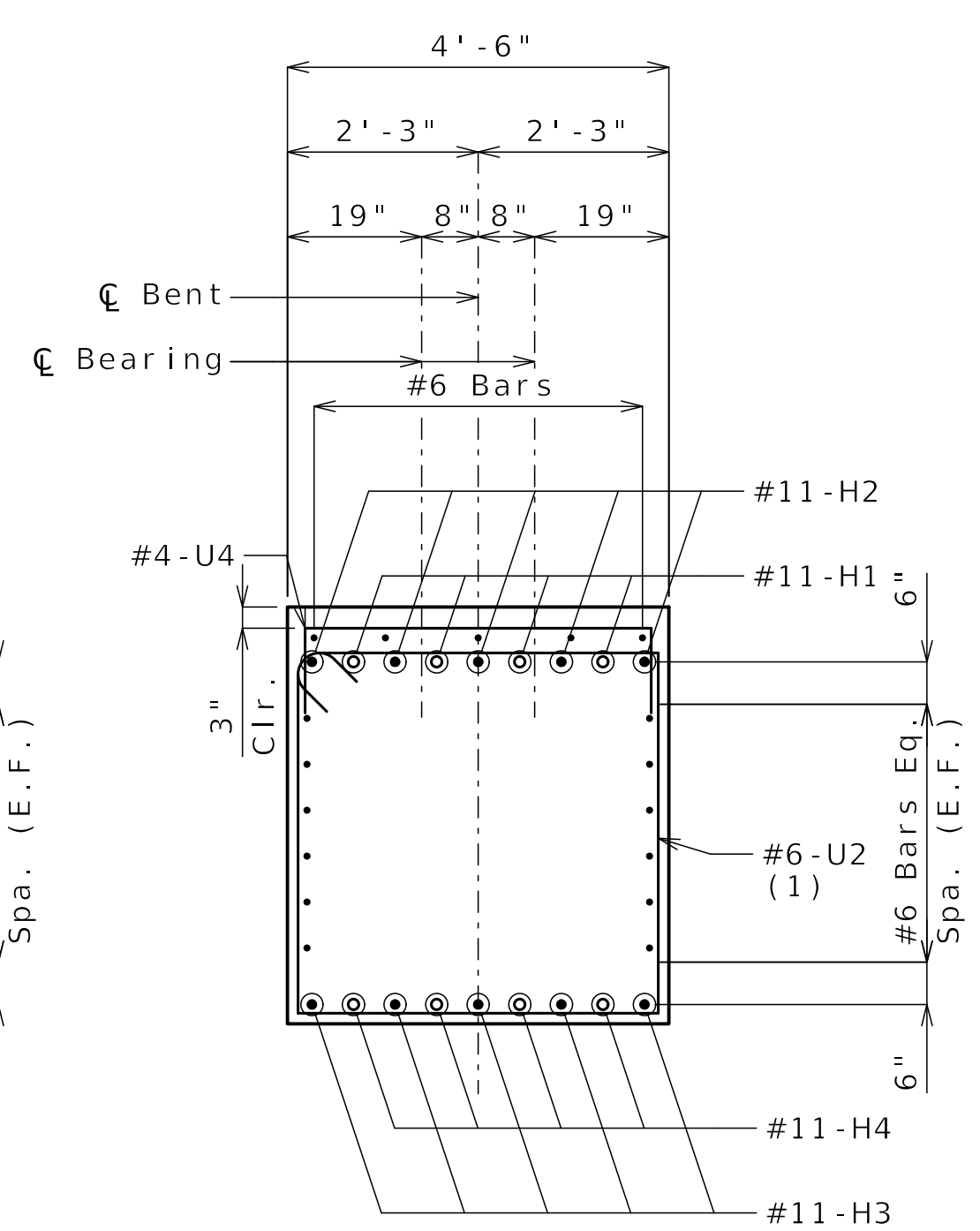


SECTION THRU KEY

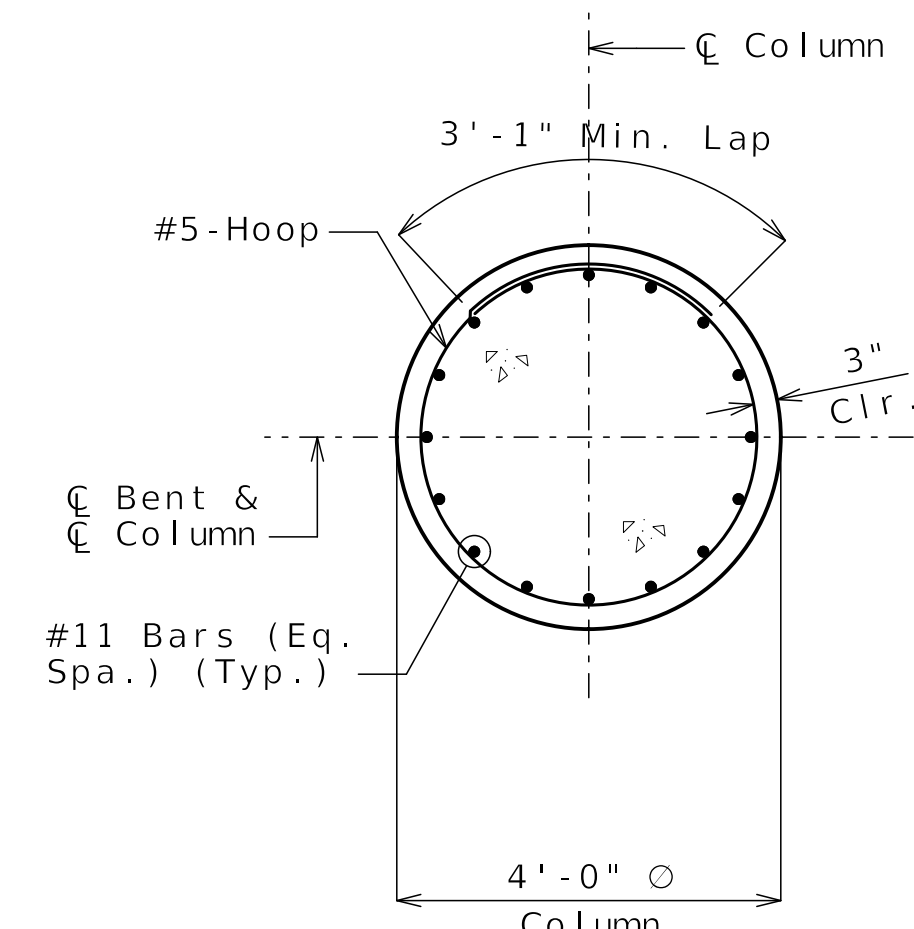
Released For Construction  
Not to Scale  
Revision: 0.0  
Date: 07/07/2025  
Package: BRD-11-27th St.



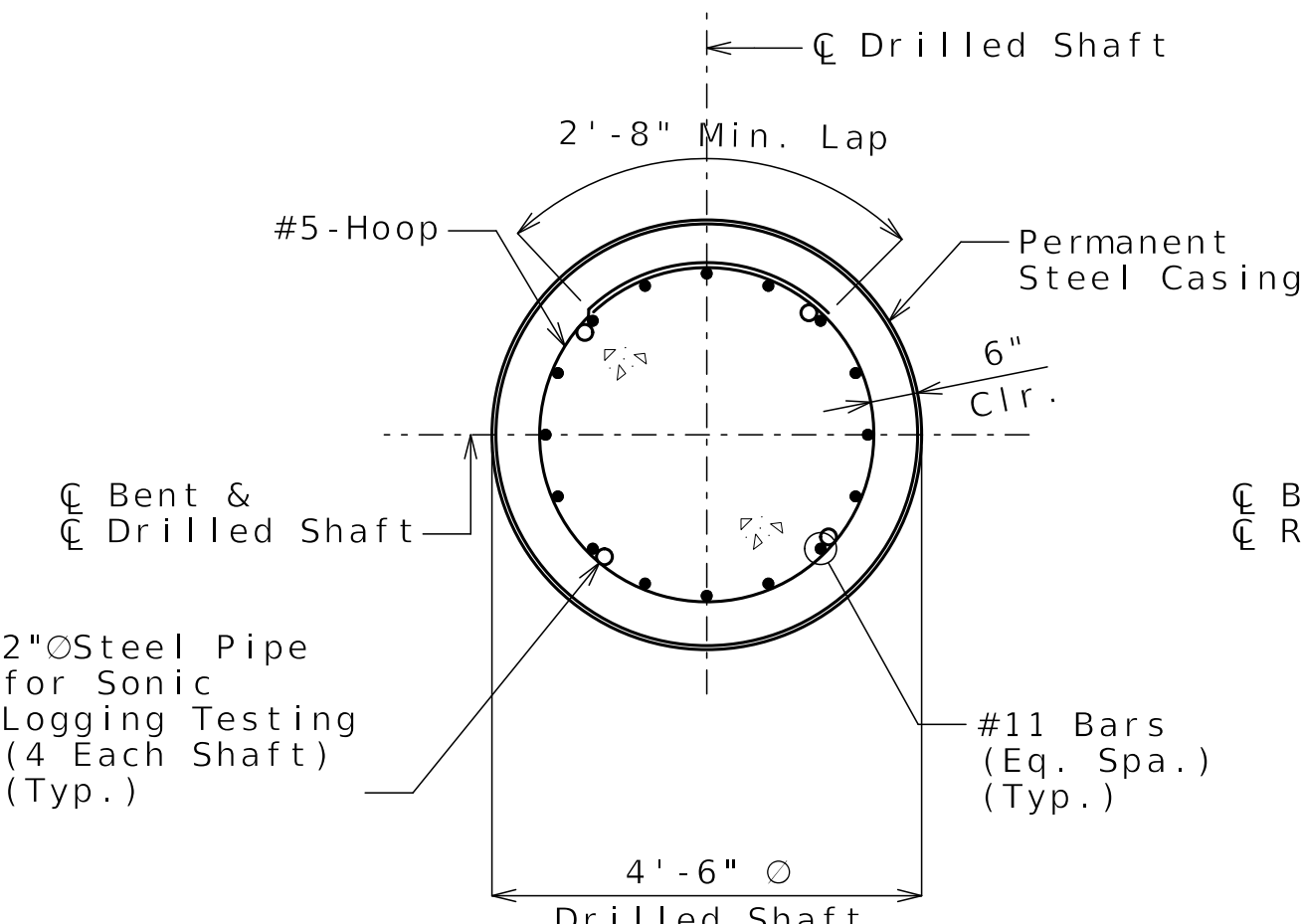
SECTION B-B



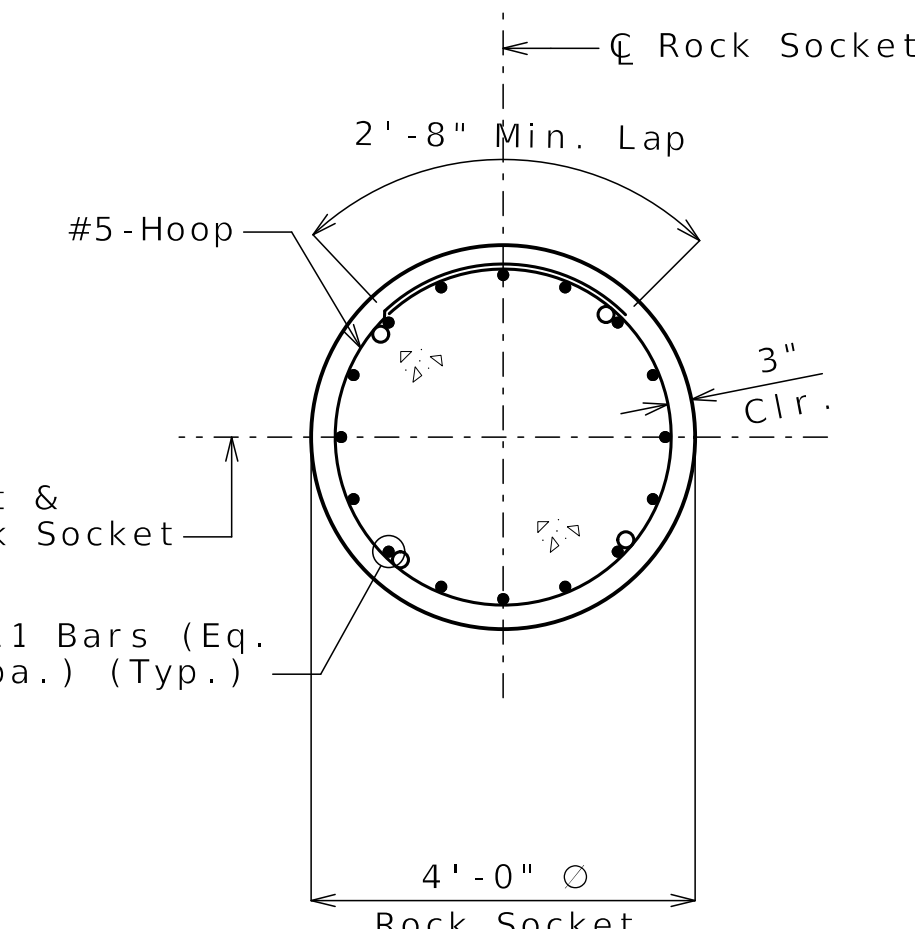
SECTION C-C



SECTION D-D



SECTION E-E



SECTION F-F

(1) U1, U2 & #6 tie bar vertical leg = 4'-1 1/2"

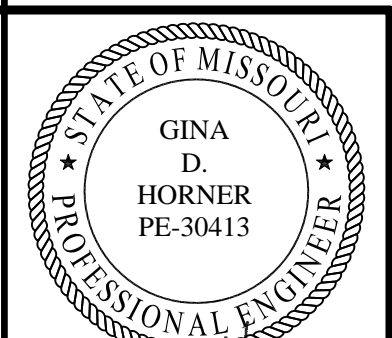
Notes:  
Work this sheet with Sheet No. B11-09.  
Hoop splices shall be staggered around the drilled shaft and rock socket at 90 degree intervals.  
For steps 2 inches or more, use 2 1/2 x 1/2 inch joint filler up vertical face.  
For additional joint filler layout details, see Sheet No. B11-18.

DETAILS OF INTERMEDIATE BENT NO. 2

Detailed MAR 2025  
Checked APR 2025

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

Sheet No. B11-10 of B11-35



Gina D. Horner  
07/02/25

DATE PREPARED  
06/25/2025

ROUTE 1-70 STATE MO  
DISTRICT BR SHEET NO. B11-11

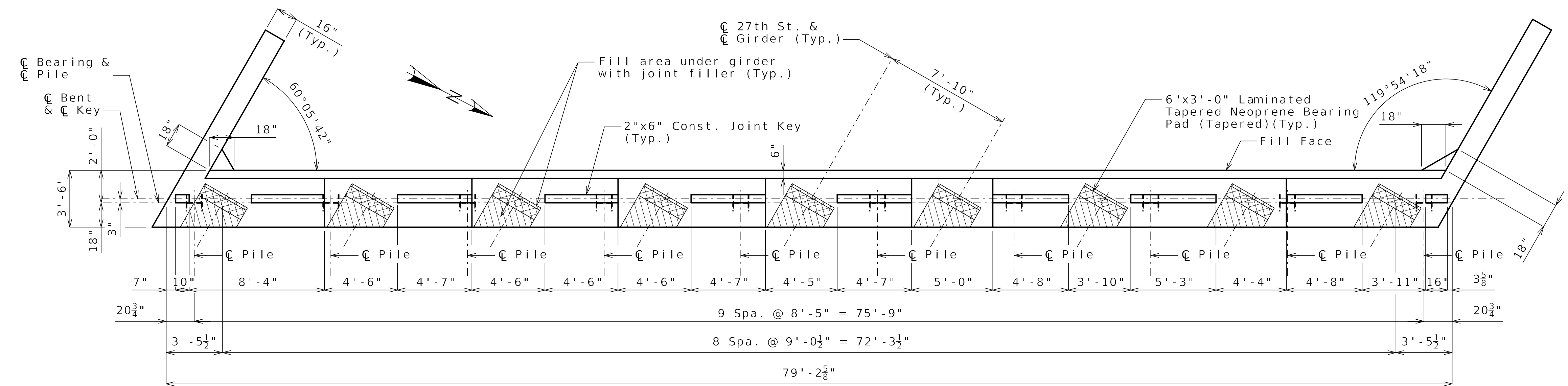
COUNTY JACKSON  
JOB NO. J411486D  
CONTRACT ID. 240807-C01  
PROJECT NO.

BRIDGE NO. A9631

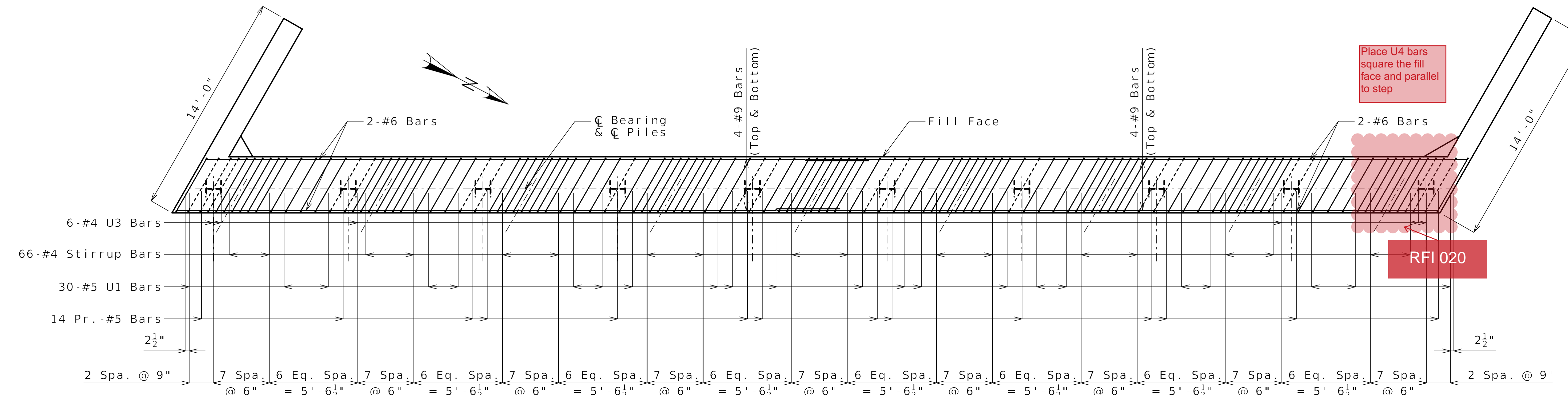
DATE	DESCRIPTION
06/25/25	REV 0 - RFC SUBMITTAL

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

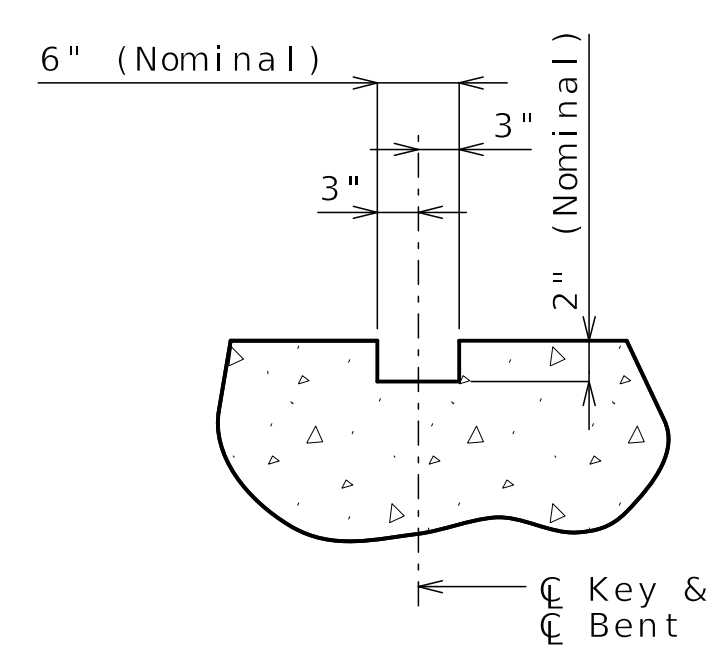
CLARKSON RADMACHER JOINT VENTURE  
715 KIRK DRIVE  
KANSAS CITY, MO 64105-1310  
CERTIFICATE OF AUTHORITY NO. 001270



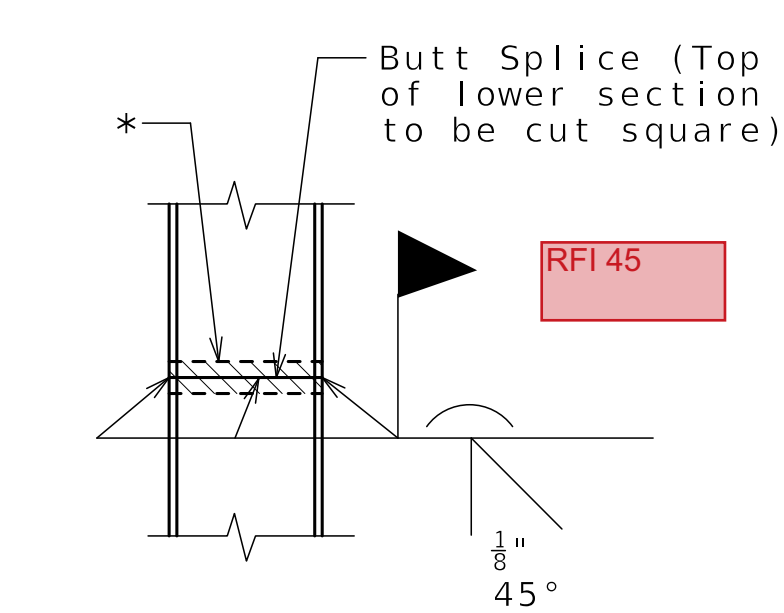
PLAN OF BEAM



PLAN OF BEAM SHOWING REINFORCING  
(Key and steps not shown for clarity)

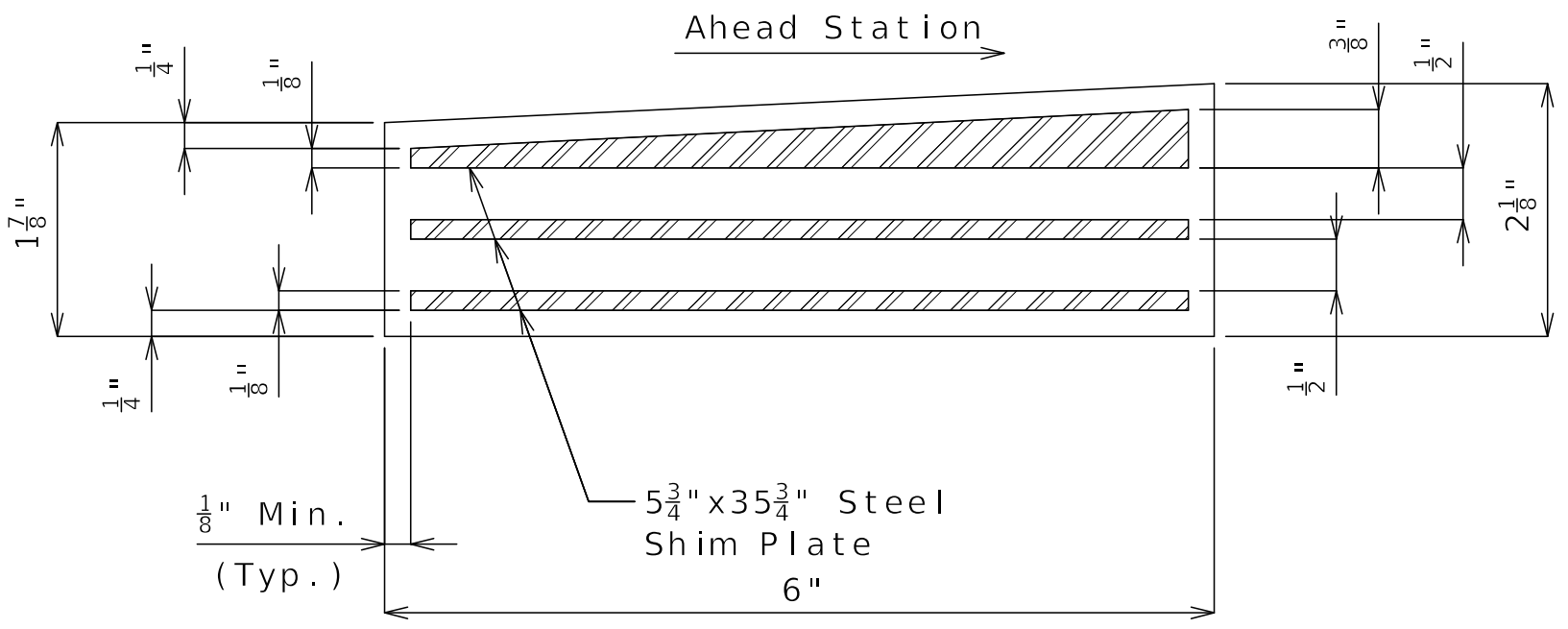


SECTION THRU KEY



STEEL PILE SPLICE  
(If required)

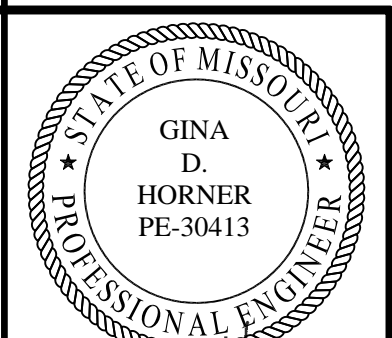
\* Galvanizing material shall be omitted or removed one inch clear of weld locations in accordance with Sec 702.



TYPICAL SECTION THRU LAMINATED NEOPRENE BEARING PAD (TAPERED)  
9 Required per Bent

Notes:  
Work this sheet with Sheets No. B11-12 and B11-13.  
All U bars and pairs of vertical bars shall be placed along skew.  
Reinforcing steel shall be shifted to clear piles. U-bars shall clear piles by at least 1 1/2".  
For details of bridge approach slab, see Sheet No. B11-30.

Released For Construction  
Not to Scale  
Revision: 0.0  
Date: 07/07/2025  
Package: BRD-11-27th St.



Gina D. Horner  
07/02/25

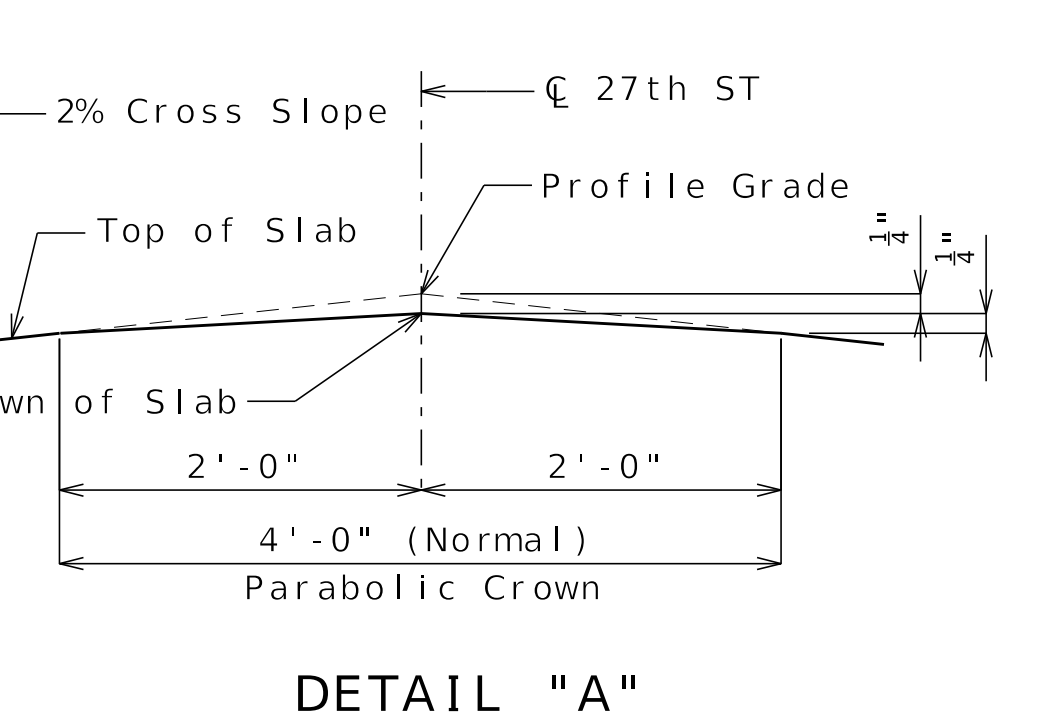
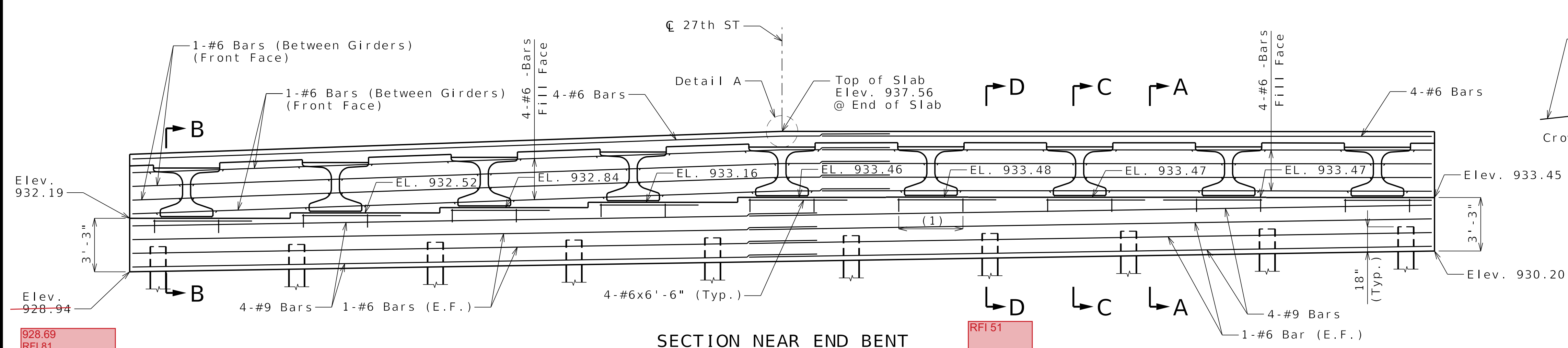
DATE PREPARED 06/25/2025	
ROUTE I-70	STATE MO
DISTRICT BR	SHEET NO. B11-12
COUNTY JACKSON	
JOB NO. J411486D	
CONTRACT ID. 240807-C01	
PROJECT NO.	

BRIDGE NO.  
A9631

DATE	DESCRIPTION
06/25/25	REV 0 - RFC SUBMITTAL

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

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

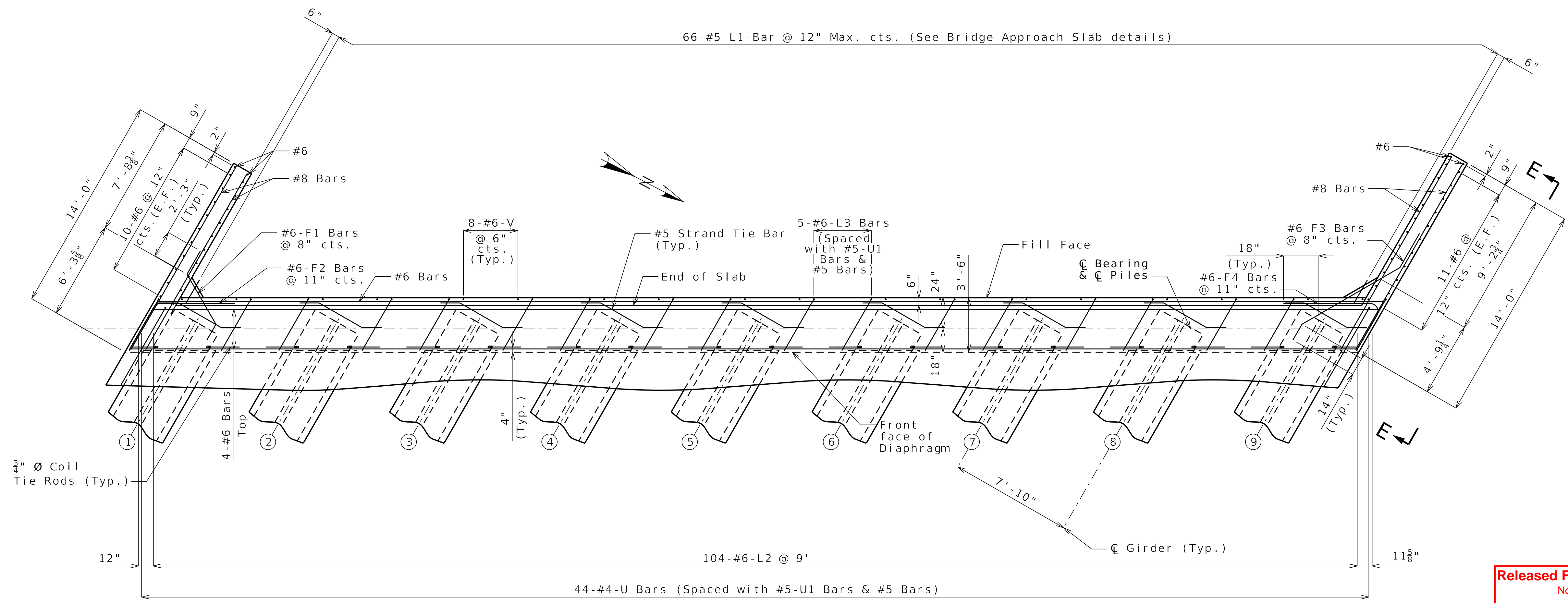


(1) 8-#4-U4 Bars @ 6" Spa. under girders. Bars shall be placed normal to  $\text{C}$  Bent and parallel to beam step. (Typ.)

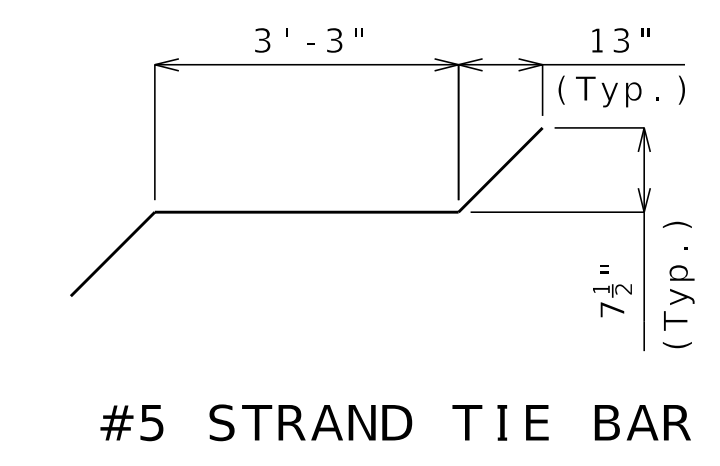
Notes:  
 Lap Splice for #6 bars = 4'-3" (Min.)  
 Lap Splice for #9 bars = 6'-5" (Min.)

928.69  
RFI 81

RFI 51



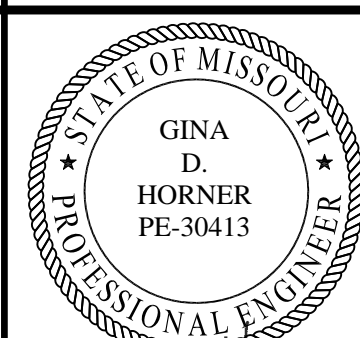
PART PLAN



Released For Construction  
 Not to Scale  
 Revision: 0.0  
 Date: 07/07/2025  
 Package: BRD-11-27th St.

General Notes:  
 Work this sheet with Sheets No. B11-11 and B11-13.  
 For Sections A-A, B-B, C-C and D-D and Elevation E-E, see Sheet No. B11-13.  
 Strands at end of the girders shall be field bent or, if necessary, cut in field to maintain 1 1/2-inch minimum clearance to fill face of end bent.  
 The #6-F bars shall be bent in the field to clear girders.  
 For location of coil tie rods, see Sheet No. B11-16.  
 (X) Denotes girder number

DETAILS OF END BENT NO. 3



Gina D. Horner  
07/02/25

DATE PREPARED  
06/25/2025

ROUTE 1-70 STATE MO

DISTRICT BR SHEET NO. B11-13

COUNTY JACKSON

JOB NO. J411486D

CONTRACT ID. 240807-C01

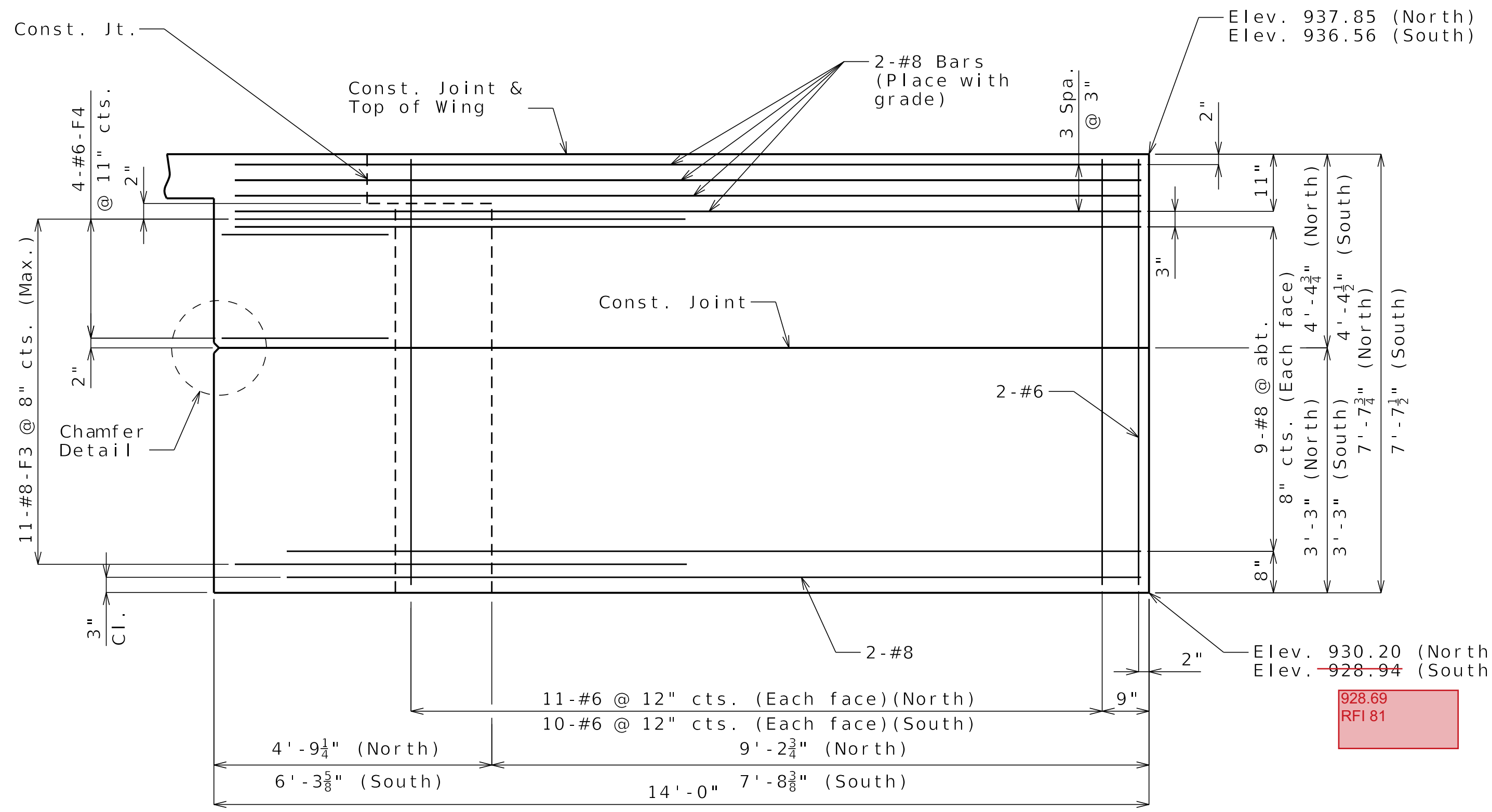
PROJECT NO.

BRIDGE NO. A9631

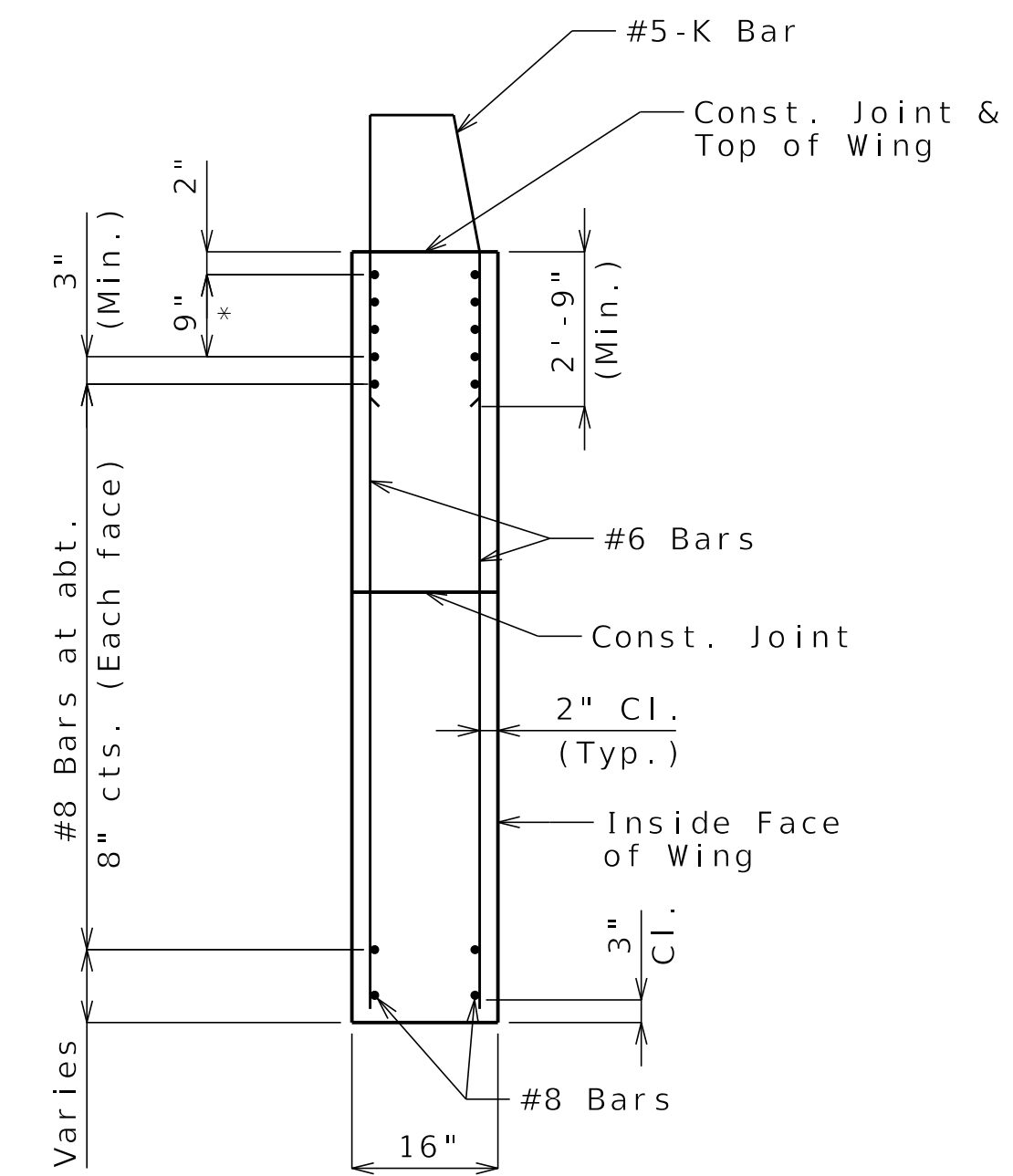
DATE	DESCRIPTION
06/25/25 <td>REV 0 - RFC SUBMITTAL</td>	REV 0 - RFC SUBMITTAL

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

CLARKSON RADMACHER JOINT VENTURE  
 715 KIRK DRIVE KANSAS CITY, MO 64105-1310  
 CERTIFICATE OF AUTHORITY NO. 001270  
**HNTB**

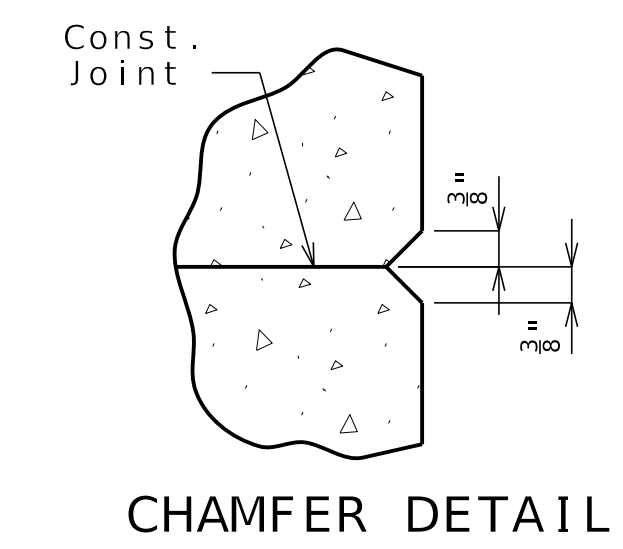


**ELEVATION E-E**  
(North Wingwall shown, South wingwall similar except opposite hand)

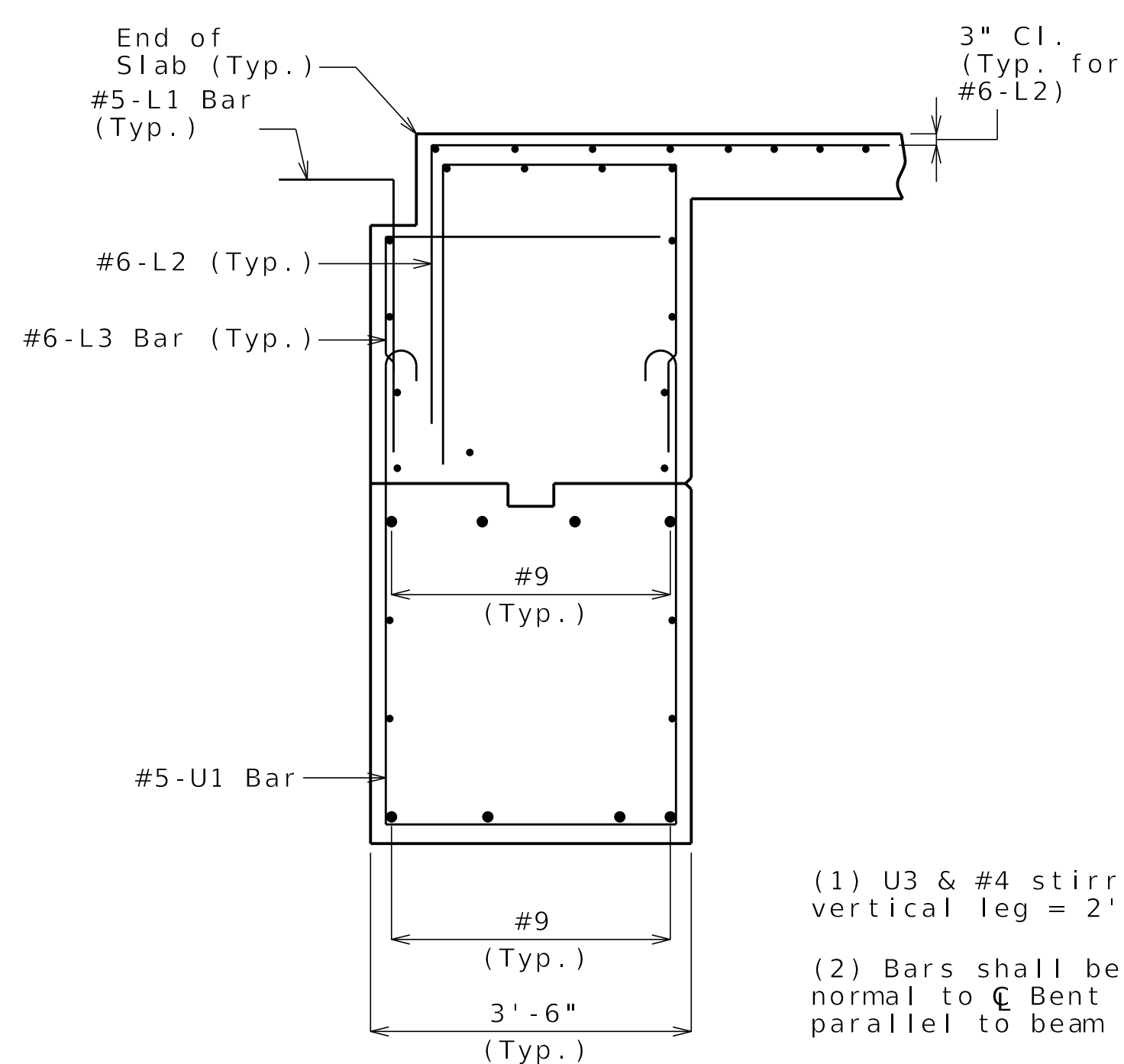


**TYPICAL SECTION THRU WING**

\*#8 Bars at 3" cts. (Each face) (Place with grade)  
See Elevation E-E for number of bars

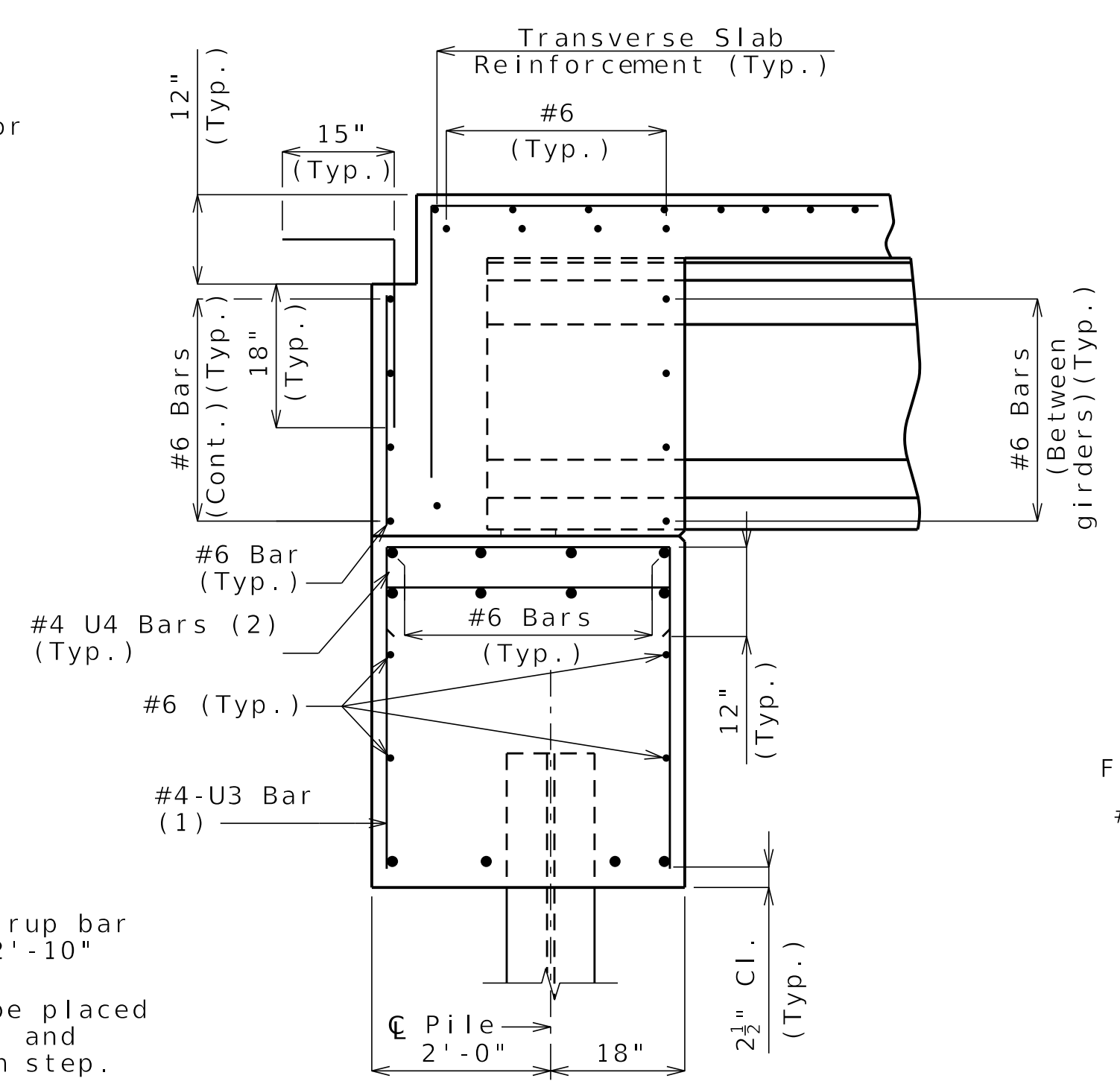


**CHAMFER DETAIL**

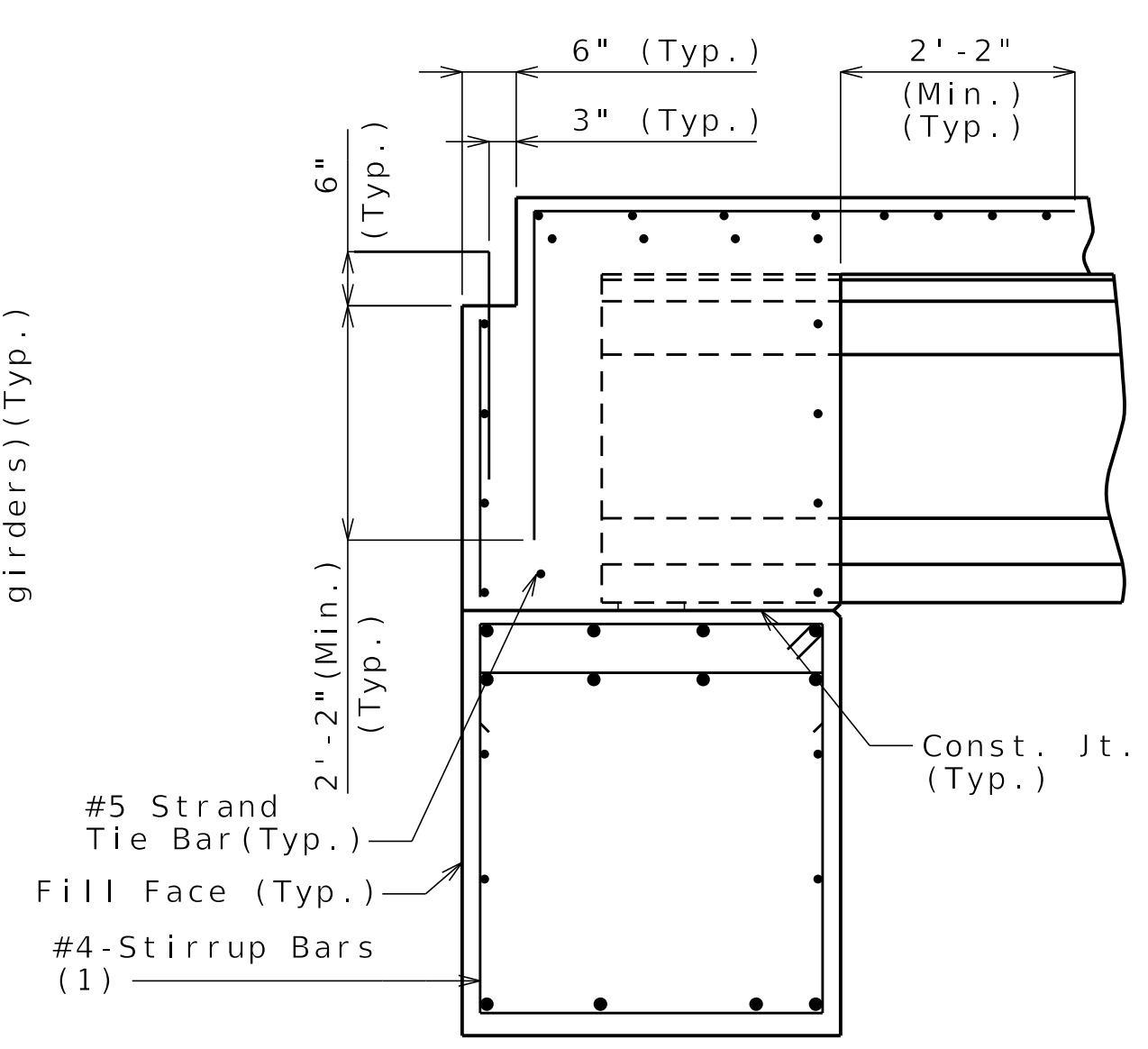


**SECTION A-A**

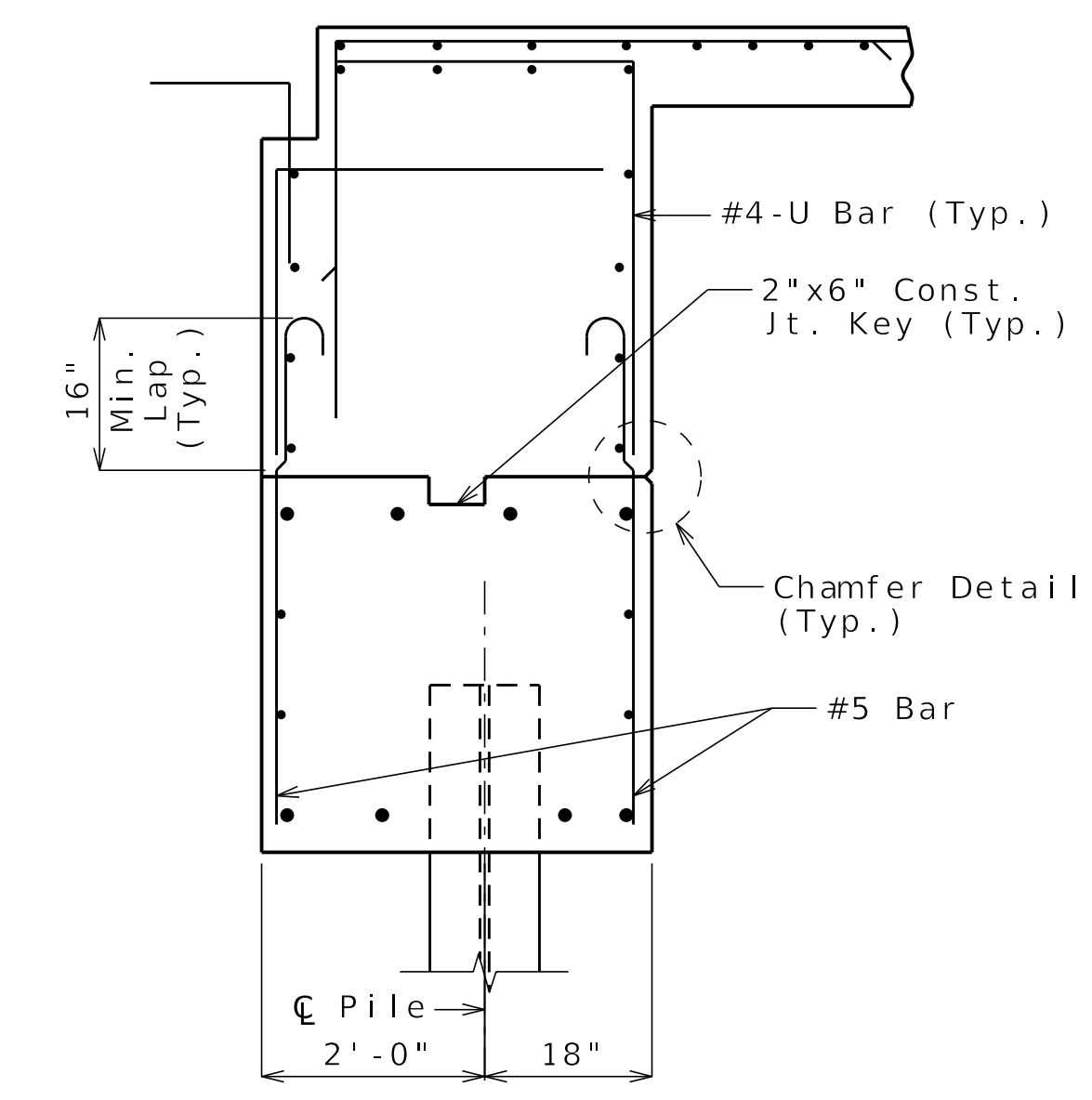
- (1) U3 & #4 stirrup bar vertical leg = 2'-10"
- (2) Bars shall be placed normal to  $\phi$  Bent and parallel to beam step.



**SECTION B-B**



**SECTION C-C**



**SECTION D-D**

General Notes:  
 Work this sheet with Sheets No. B11-11 and B11-12.  
 For location of Sections A-A, B-B, C-C, D-D and Elevation E-E, see Sheet No. B11-12.  
 For reinforcement of the Type D Barrier, see Sheet No. B11-25.

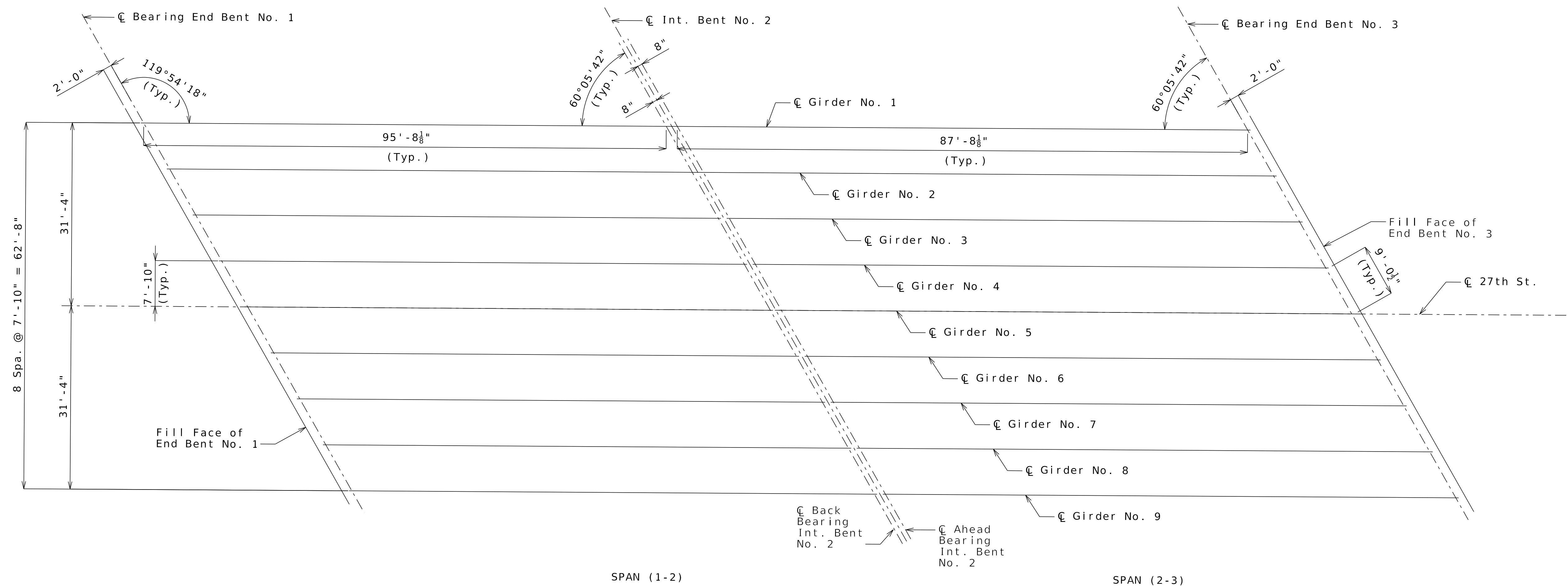
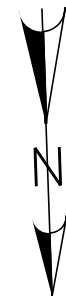
**DETAILS OF END BENT NO. 3**

**Released For Construction**  
 Not to Scale  
 Revision: 0.0  
 Date: 07/07/2025  
 Package: BRD-11-27th St.

Detailed MAR 2025  
 Checked APR 2025

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

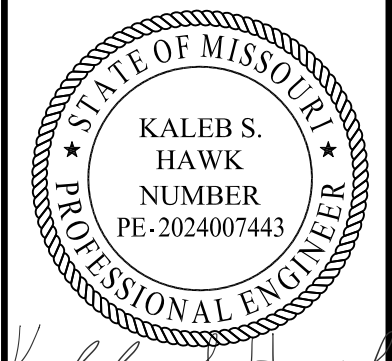
Sheet No. B11-13 of B11-35



SPAN (1-2)

SPAN (2-3)

FRAMING PLAN



Kaleb S. Hawk  
7-2-2025

DATE PREPARED 06/25/2025	
ROUTE I-70	STATE MO
DISTRICT BR	SHEET NO. B11-14
COUNTY JACKSON	
JOB NO. J411486D	
CONTRACT ID. 240807-C01	
PROJECT NO.	

BRIDGE NO.  
A9631

DATE	DESCRIPTION
06/25/25	REV 0 - RFC SUBMITTAL

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

CLARKSON RADMACHER JOINT VENTURE

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

**Released For Construction**  
Not to Scale  
Revision: 0.0  
Date: 07/07/2025  
Package: BRD-11-27th St.

Notes:  
All dimensions are horizontal.  
All bents are parallel.

FRAMING PLAN

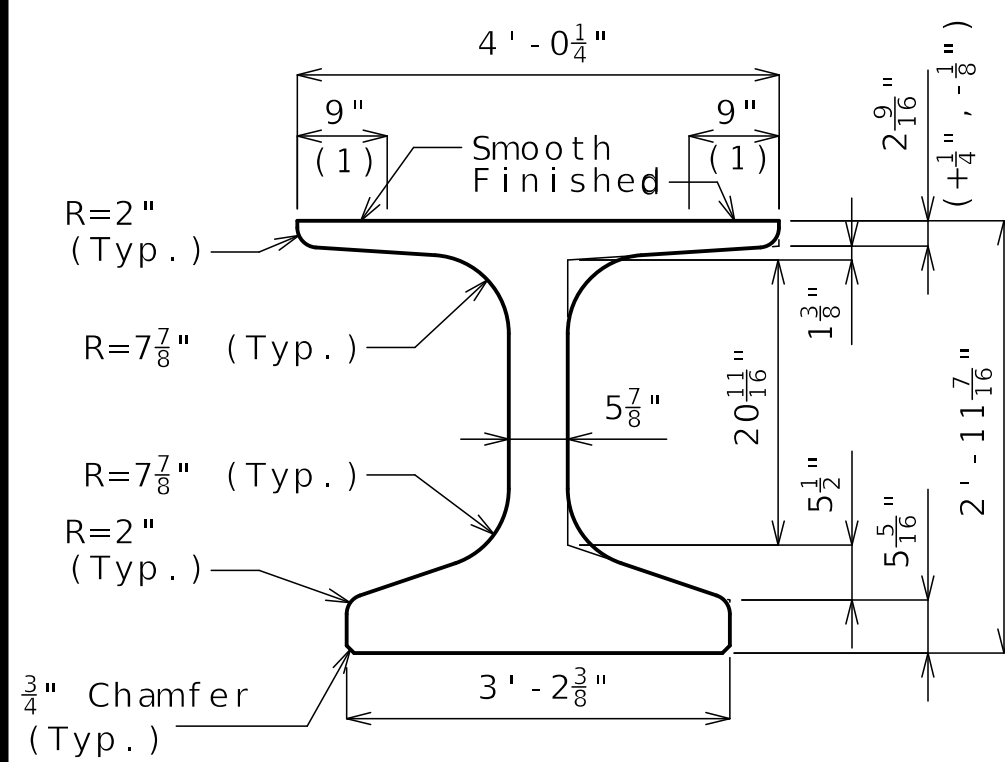
Detailed MAR 2025  
Checked APR 2025

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

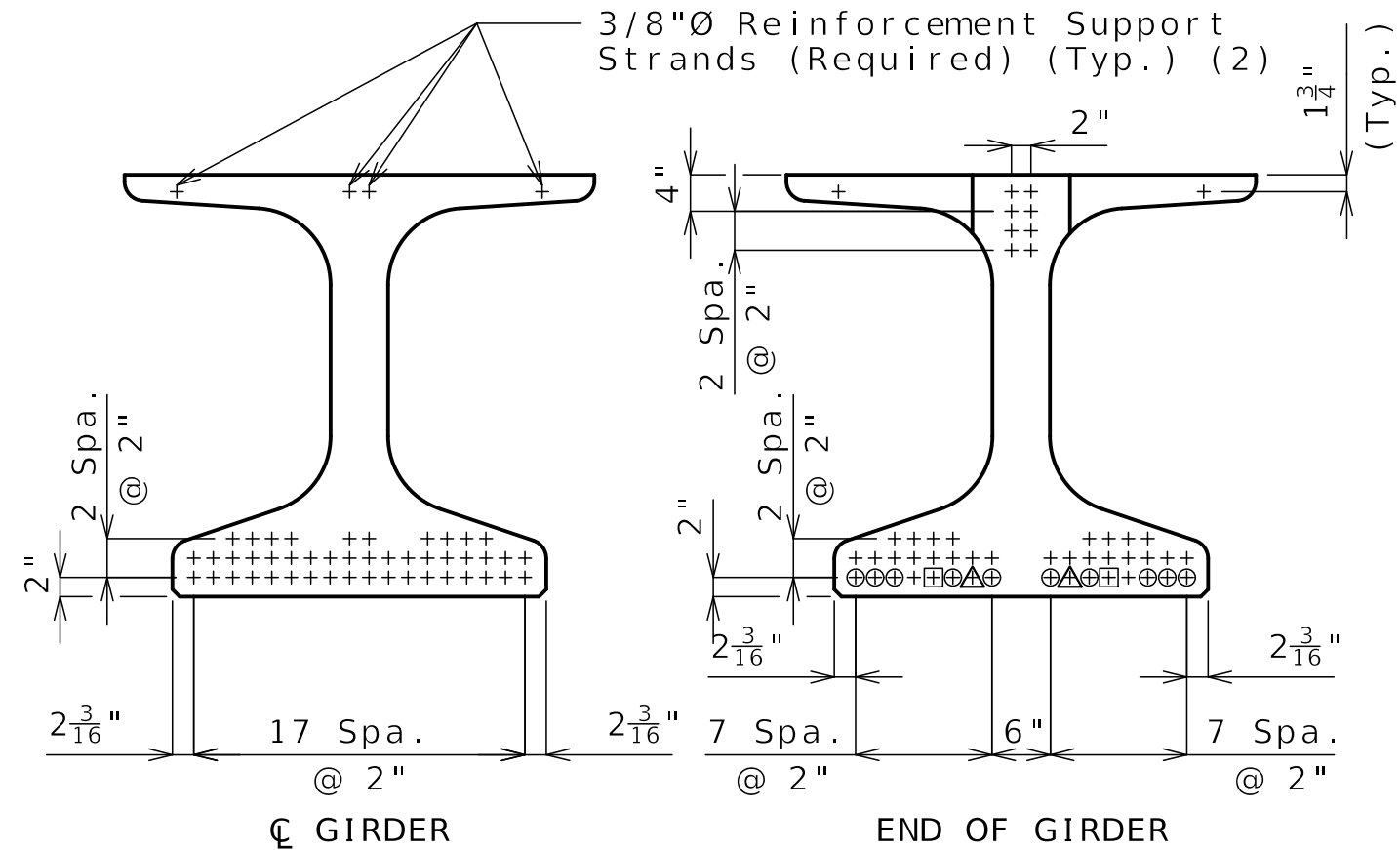
Sheet No. B11-14 of B11-35

(1) Fabricator shall apply a bond breaker to this region.

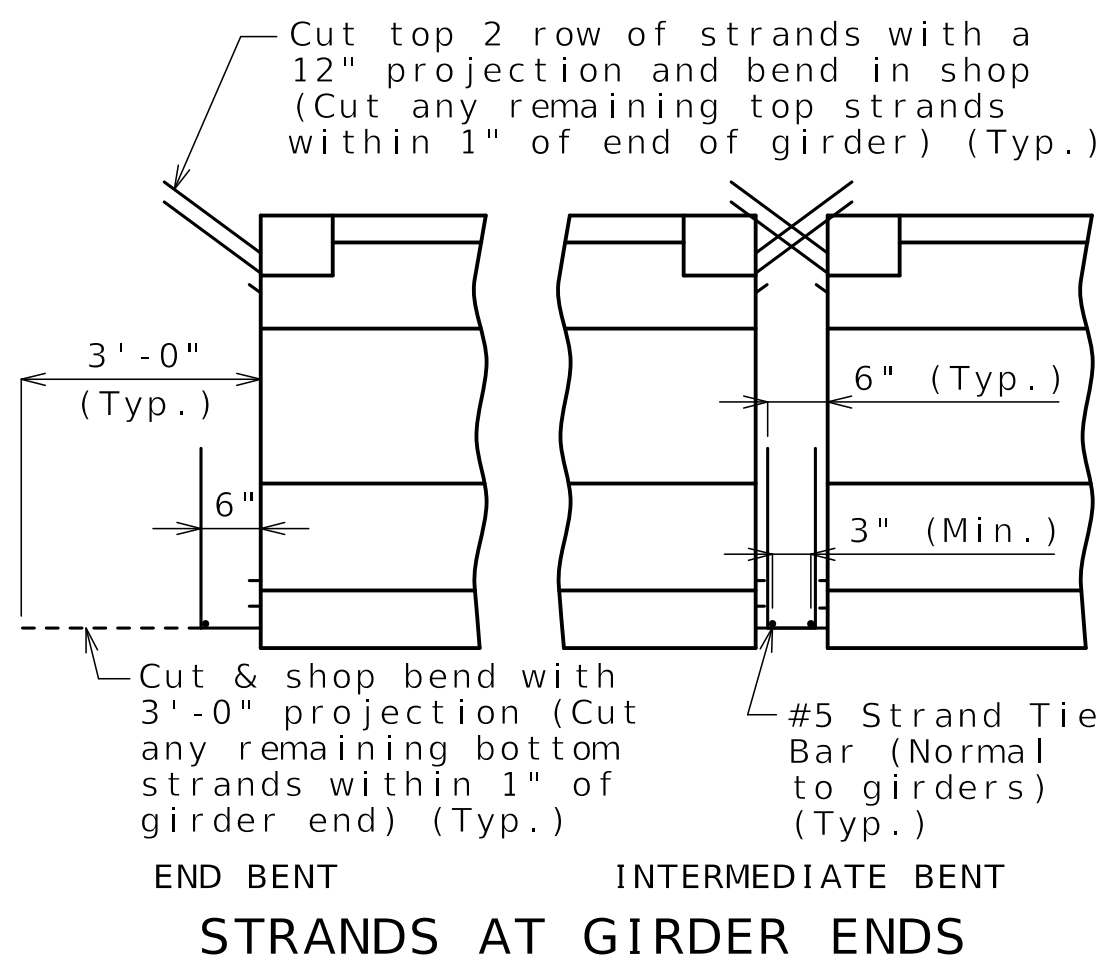
(2) Outer strands tensioned to 2.02 kips/strand and inner strands to 8 kips/strand. Placed symmetrical about  $\bar{C}$  Girder. May be moved laterally in pairs.



DIMENSIONS

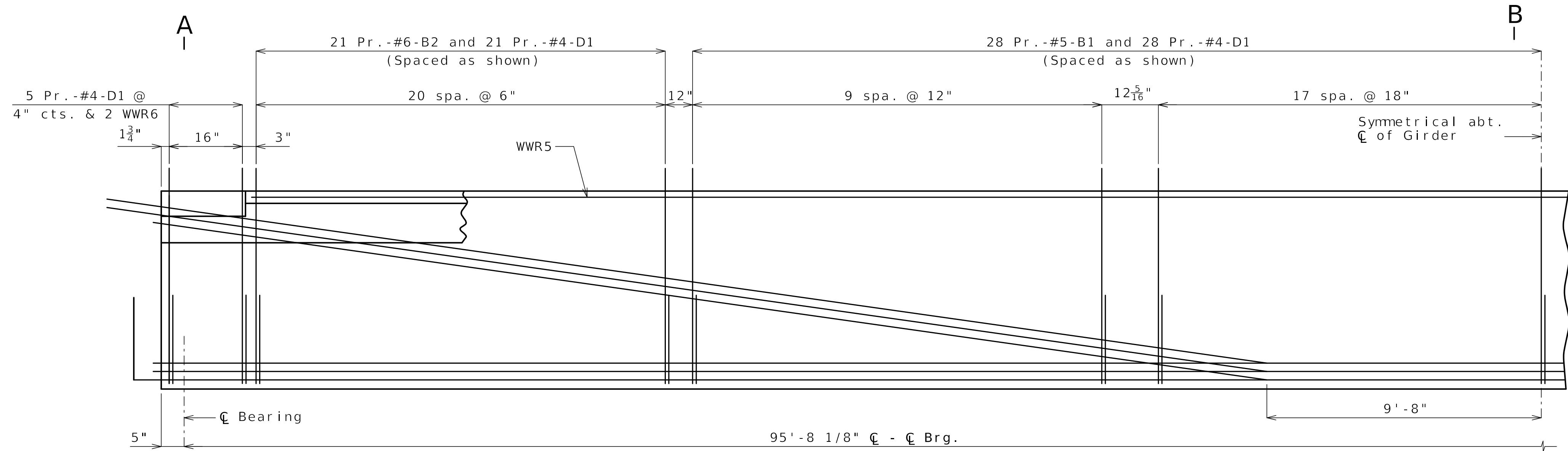


STRAND ARRANGEMENT



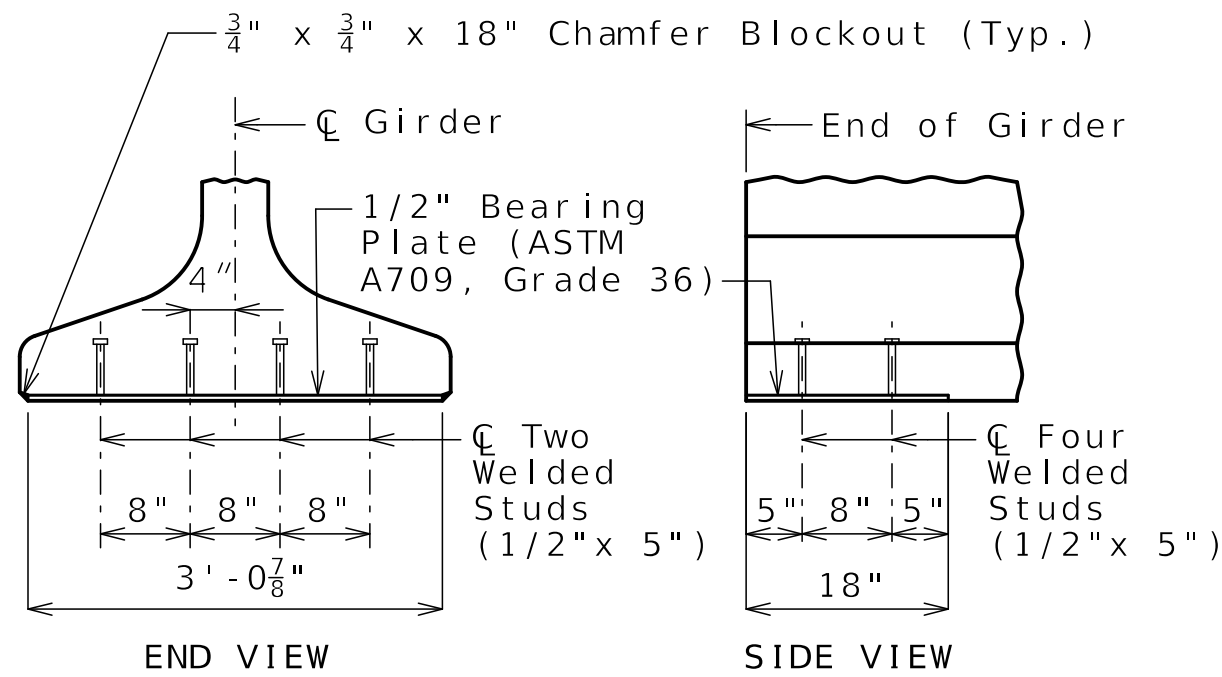
STRANDS AT GIRDER ENDS

+ Indicates prestressing strand.  
 @ Indicates cut & shop bend with 3'-0" projection.  
 △ Indicates strands debonded 5'-0" from each end of girder.  
 □ Indicates strands debonded 10'-0" from each end of girder.

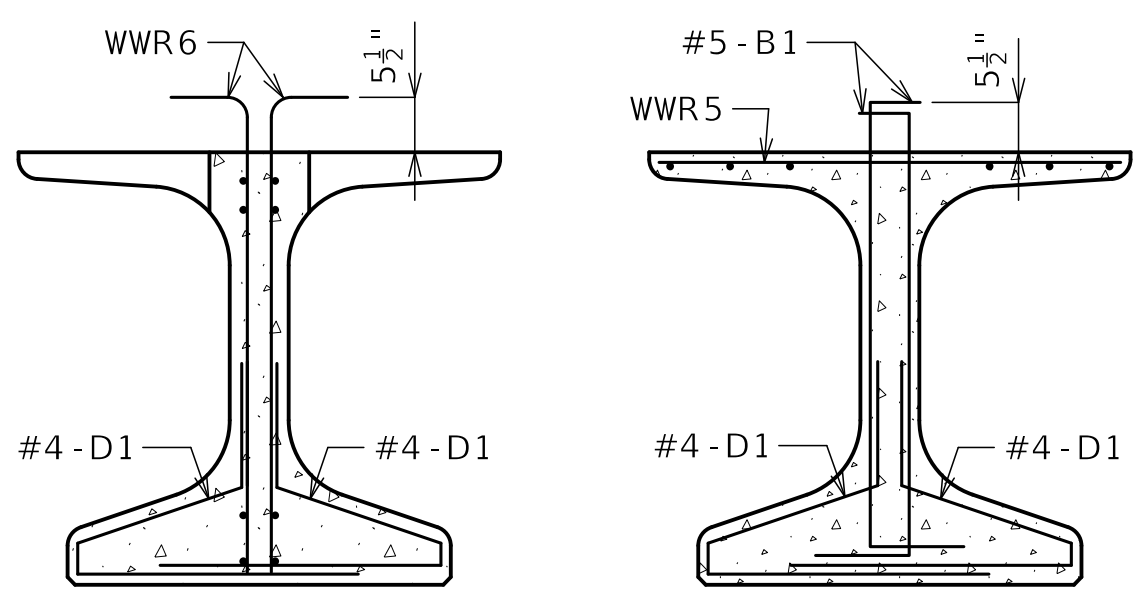


HALF ELEVATION

Reinforcement support strands not shown for clarity.



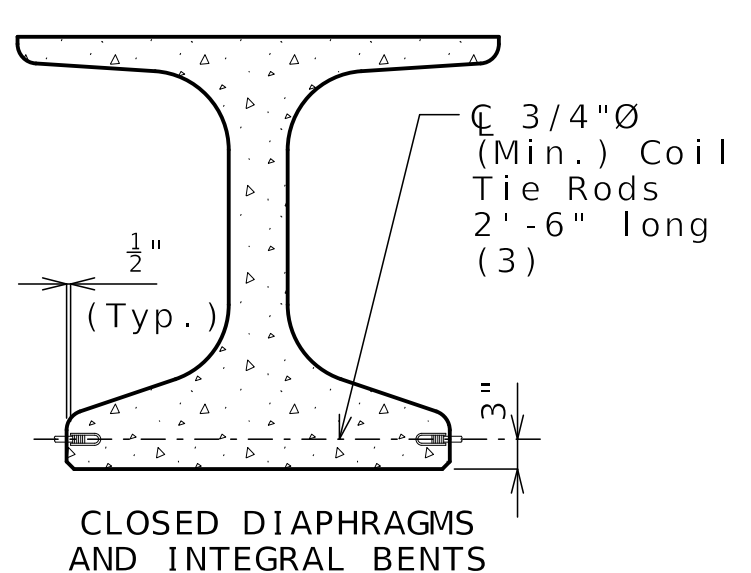
BEARING PLATE



SECTION A-A

SECTION B-B

Strands not shown for clarity.



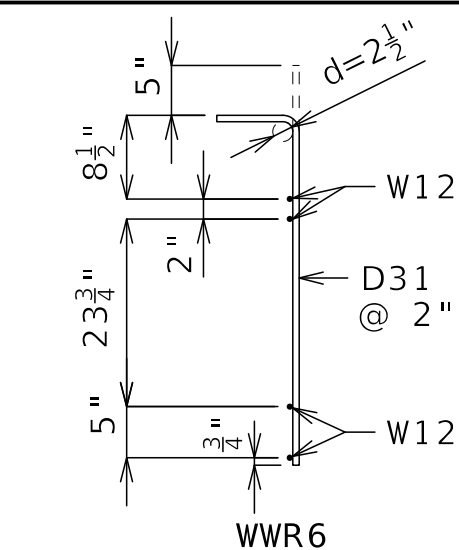
COIL TIES

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

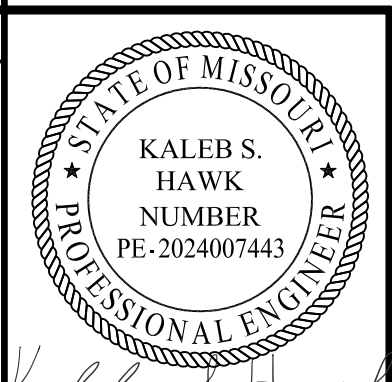
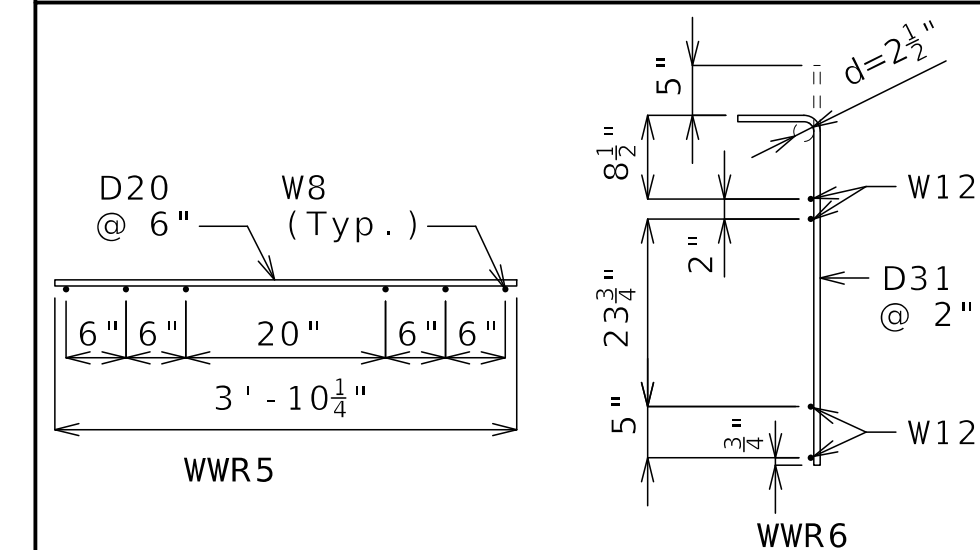
(3) 12" at exterior face of exterior girders at end bents

Bill of Reinforcing Steel - Each Girder			
No.	Size/Mark	Length	Shape
110	5 B1	4'-4"	11S
84	6 B2	4'-3"	11S
214	4 D1	4'-0"	9S

Bending Diagrams



Welded Wire Reinforcement - Each Girder



7-2-2025

DATE PREPARED	06/25/2025
ROUTE	1-70
STATE	MO
DISTRICT	BR
SHEET NO.	B11-15
COUNTY	JACKSON
JOB NO.	J411486D
CONTRACT ID.	240807-C01
PROJECT NO.	
BRIDGE NO.	A9631

All dimensions are out to out.

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

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

Minimum clearance to reinforcing shall be one inch.

All bar reinforcement shall be Grade 60.

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

All B1 and B2 bars shall be epoxy coated.

General Notes:

Concrete for prestressed girders shall be Class A-1 with  $f'c = 10000$  psi and  $f'ci = 7500$  psi.

Use 46 strands, 0.6"Ø Grade 270, with an initial prestress force of 2,021 kips.

Pretensioned members shall be in accordance with Sec 1029.

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

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

Exterior and interior girders are the same except: coil ties, top flange blockout, application of bond breaker.

For Girder Camber Diagram, see Sheet No. B11-19.

For location of coil ties at concrete diaphragms and integral bents, see Sheets No. B11-06 and B11-18.

For additional NU Girder Details, see Sheet No. B11-17.

Released For Construction  
 Not to Scale  
 Revision: 0.0  
 Date: 07/07/2025  
 Package: BRD-11-27th St.

NU-GIRDERS - SPAN (1-2)

DATE	DESCRIPTION
06/25/25 <td>REV 0 - RFC SUBMITTAL </td>	REV 0 - RFC SUBMITTAL

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

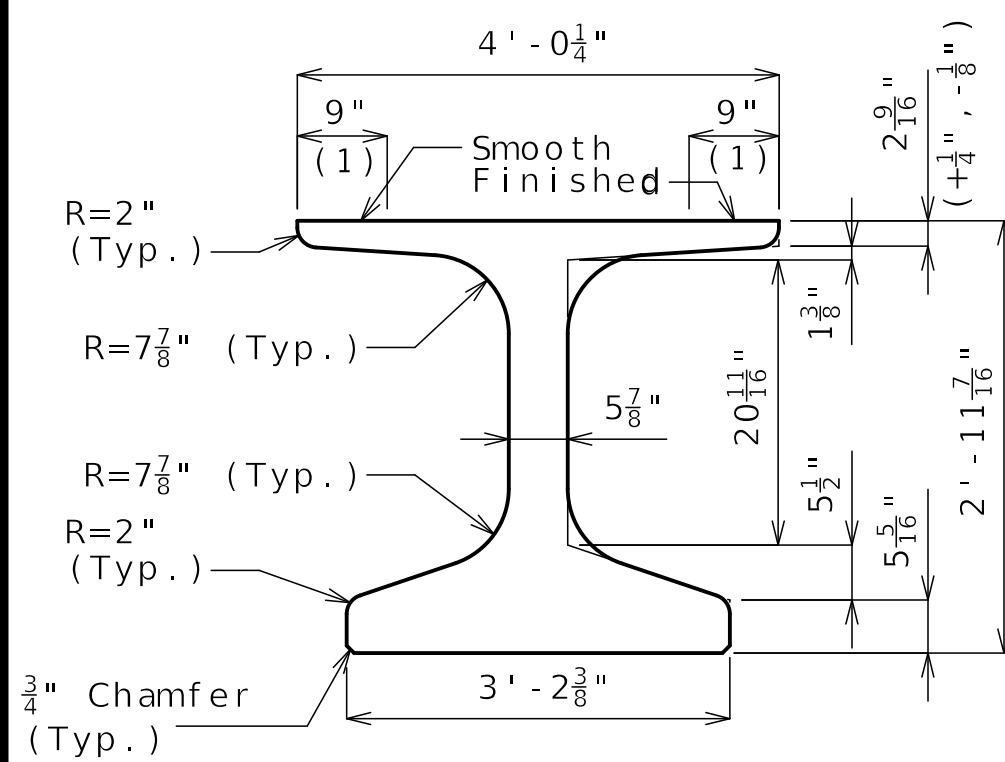
105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)

CLARKSON RADMACHER JOINT VENTURE

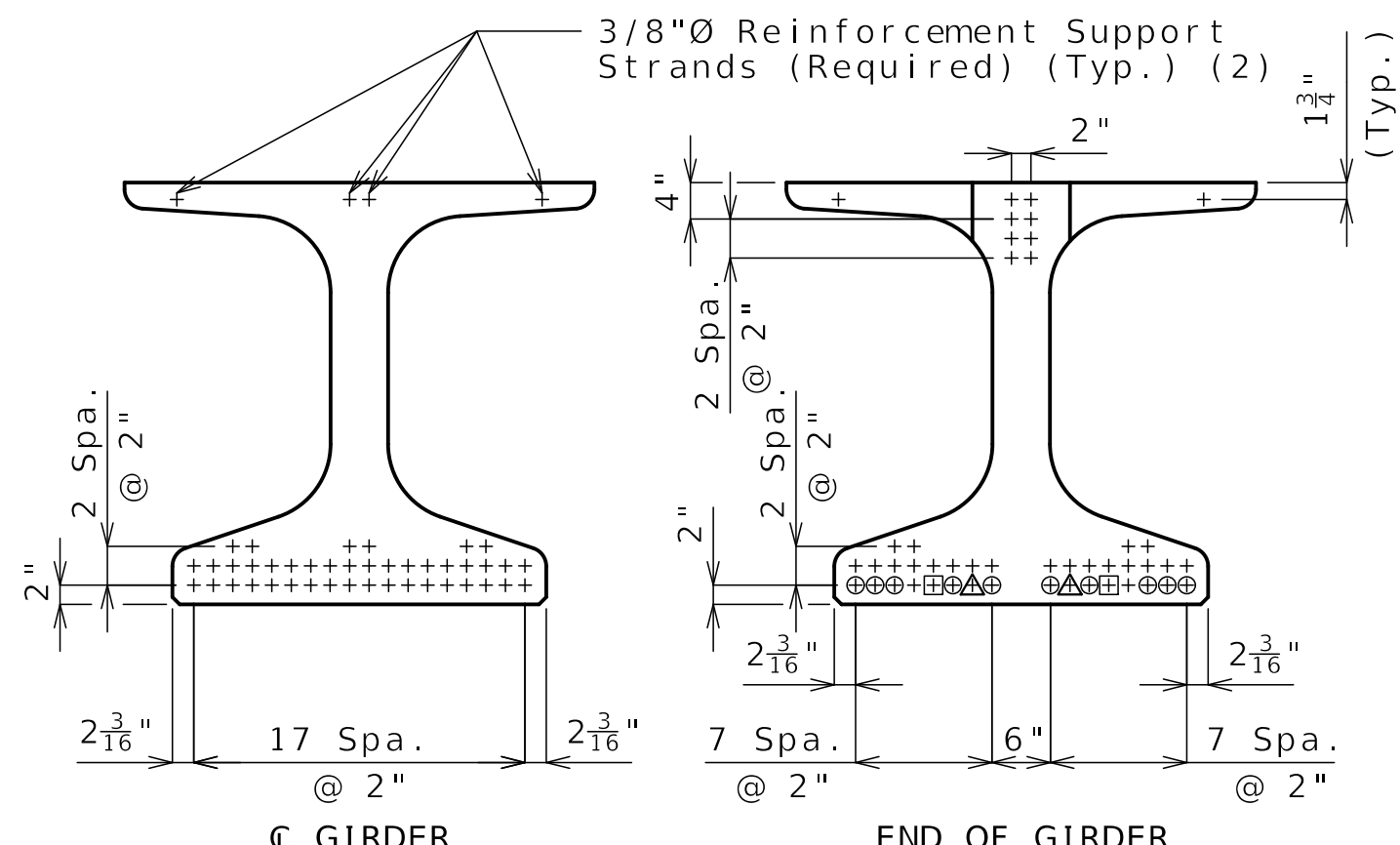
715 KIRK DRIVE  
 KANSAS CITY, MO 64105-1310  
 CERTIFICATE OF AUTHORITY  
 NO. 001270

(1) Fabricator shall apply a bond breaker to this region.

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

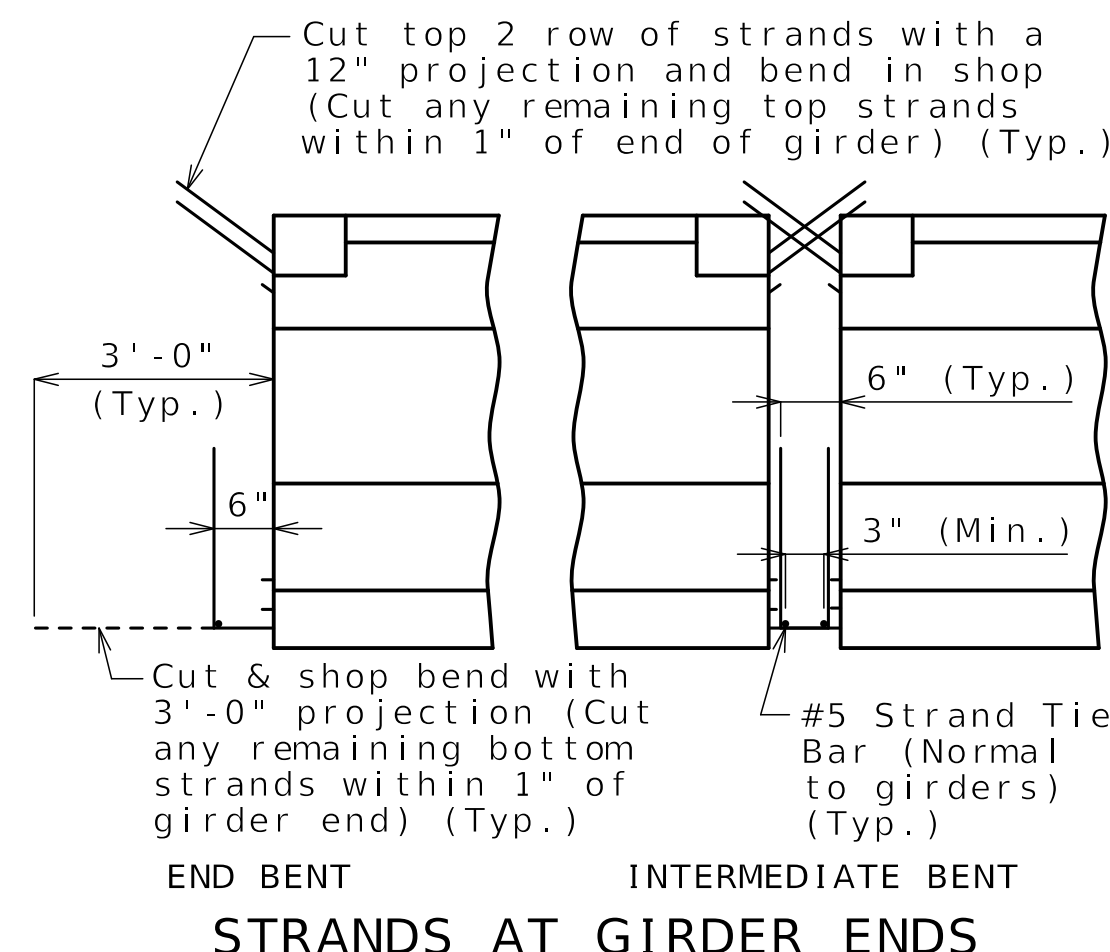


DIMENSIONS



STRAND ARRANGEMENT

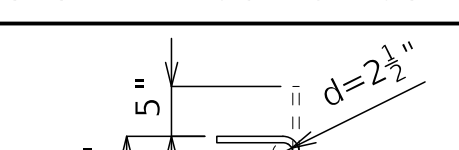
+ Indicates prestressing strand.  
 @ Indicates cut & shop bend with 3'-0" projection.  
 △ Indicates strands debonded 5'-0" from each end of girder.  
 □ Indicates strands debonded 10'-0" from each end of girder.



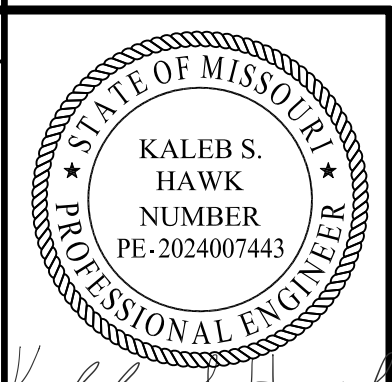
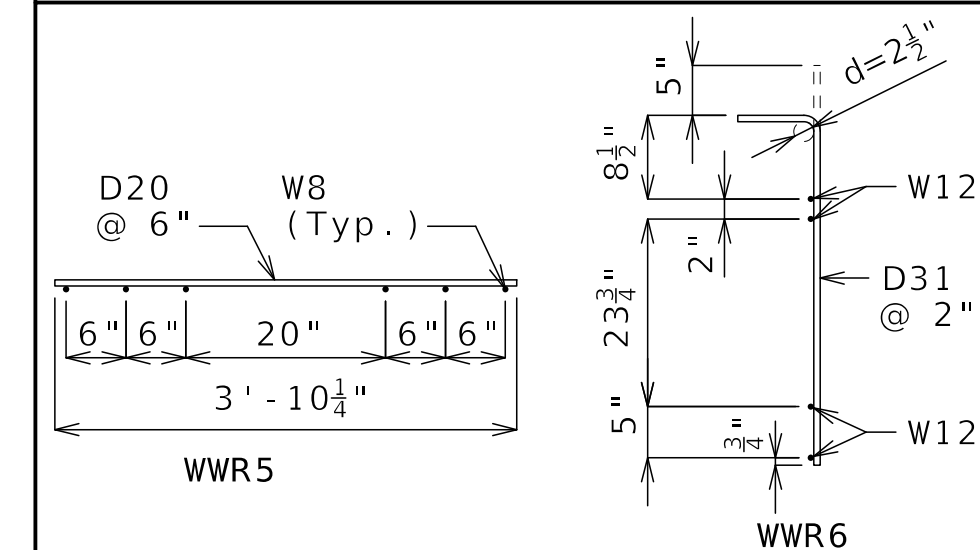
STRANDS AT GIRDER ENDS

Bill of Reinforcing Steel - Each Girder			
No.	Size/Mark	Length	Shape
100	5 B1	4'-4"	11S
84	6 B2	4'-3"	11S
204	4 D1	4'-0"	9S

Bending Diagrams

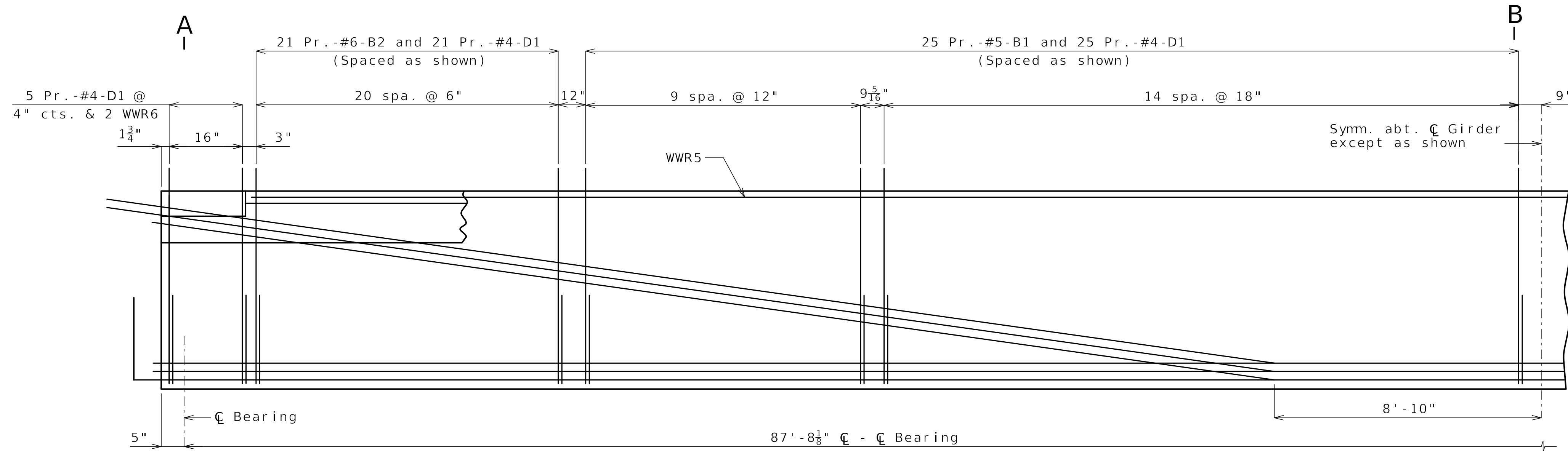


Welded Wire Reinforcement - Each Girder



7-2-2025

DATE PREPARED 06/25/2025	
ROUTE I-70	STATE MO
DISTRICT BR	SHEET NO. B11-16
COUNTY JACKSON	
JOB NO. J411486D	
CONTRACT ID. 240807-C01	
PROJECT NO.	
BRIDGE NO. A9631	



HALF ELEVATION

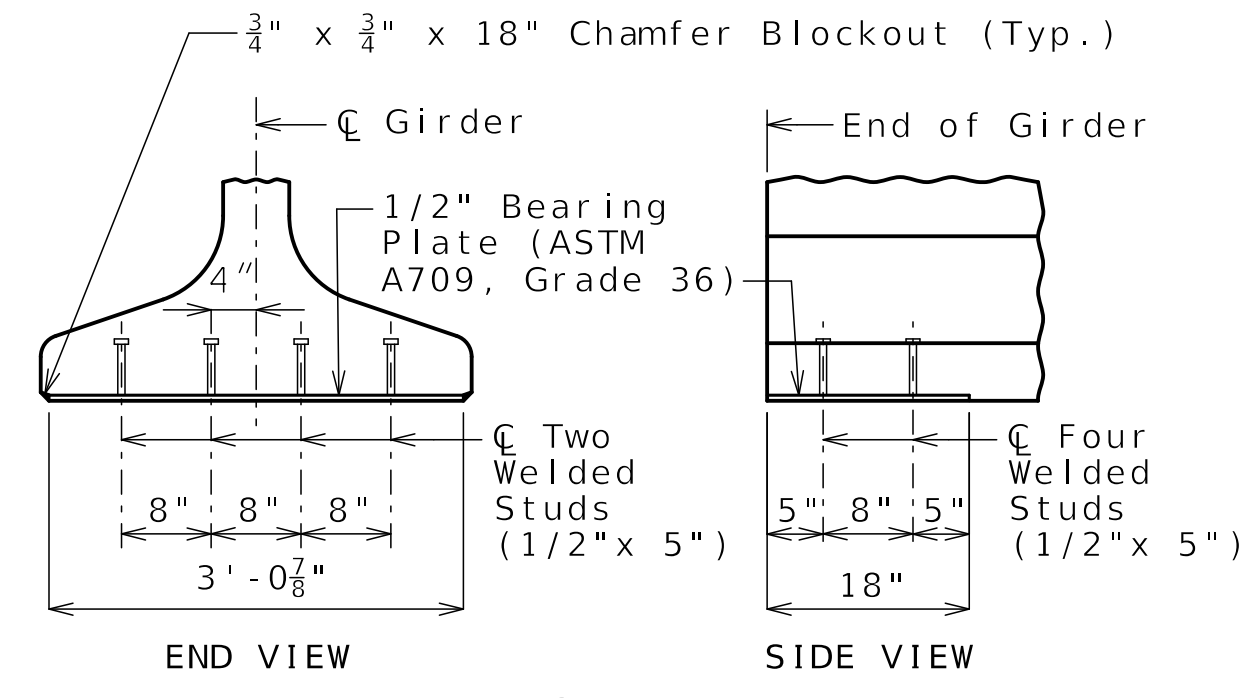
Reinforcement support strands not shown for clarity.

All dimensions are out to out.  
 Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.  
 Actual bar lengths are measured along centerline of bar to the nearest inch.  
 Minimum clearance to reinforcing shall be one inch.  
 All bar reinforcement shall be Grade 60  
 The two D1 bars may be furnished as one bar at the fabricator's option.  
 All B1 and B2 bars shall be epoxy coated.

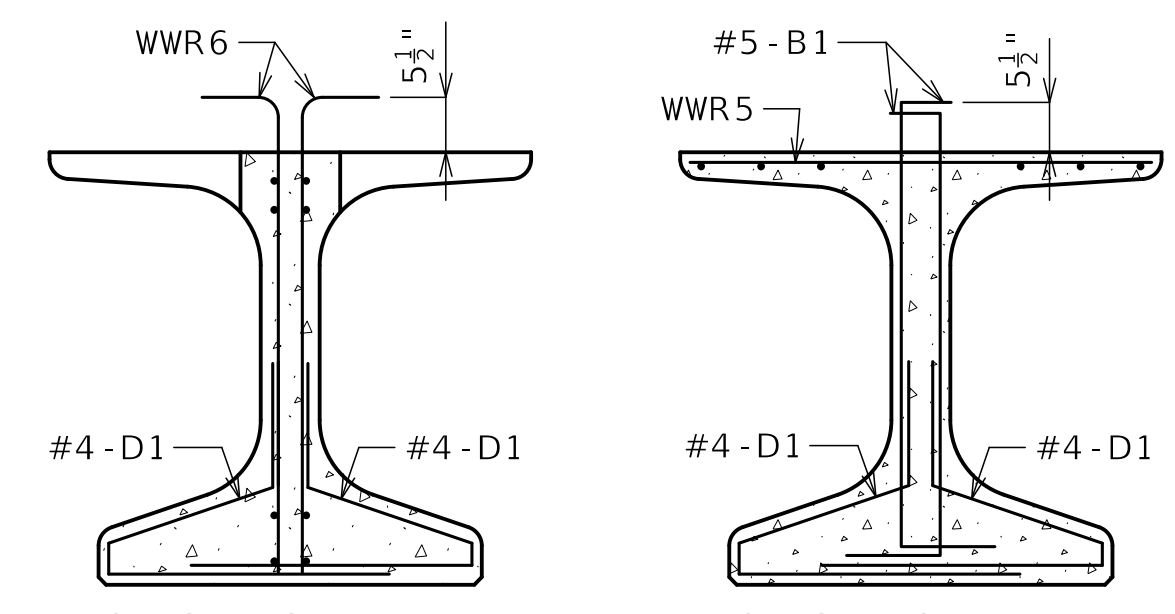
General Notes:

Concrete for prestressed girders shall be Class A-1 with  $f'c = 10000$  psi and  $f'ci = 7500$  psi.  
 Use 42 strands, 0.6"Ø Grade 270, with an initial prestress force of 1,846 kips.  
 Pretensioned members shall be in accordance with Sec 1029.  
 Fabricator shall be responsible for location and design of lifting devices.  
 The contractor shall provide bracing necessary for lateral and torsional stability of the girders during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength.  
 Contractor shall not drill holes in the girders.

Exterior and interior girders are the same except: coil ties, top flange blockout, application of bond breaker.  
 For Girder Camber Diagram, see Sheet No. B11-19.  
 For location of coil ties at concrete diaphragms and integral bents, see Sheets No. B11-12 and B11-18.  
 For additional NU Girder Details, see Sheet No. B11-17.



BEARING PLATE

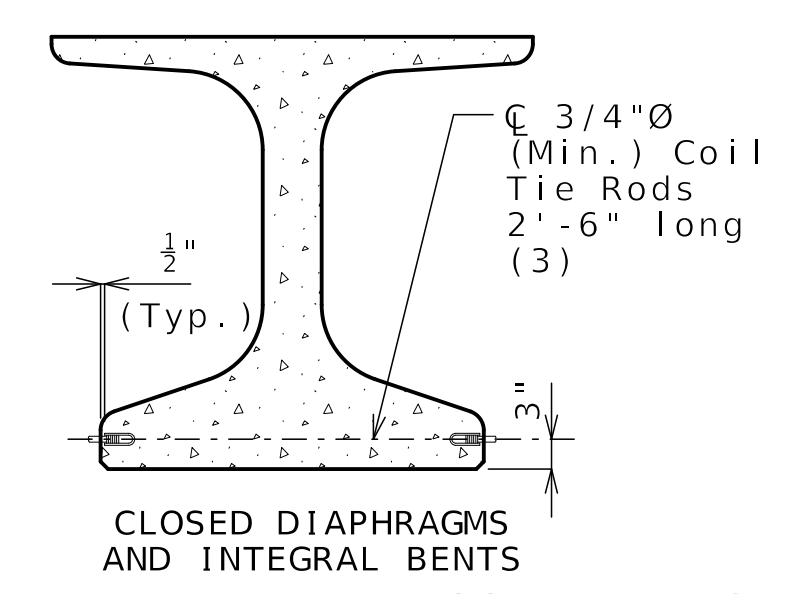


SECTION A-A

Strands not shown for clarity.

SECTION B-B

Strands not shown for clarity.



COIL TIES

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

(3) 12" at exterior face of exterior girders at end bents

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 Not to Scale  
 Revision: 0.0  
 Date: 07/07/2025  
 Package: BRD-11-27th St.

NU-GIRDERS - SPAN (2-3)

DESCRIPTION  
 REV 0 - RFC SUBMITTAL

DATE  
 06/25/25

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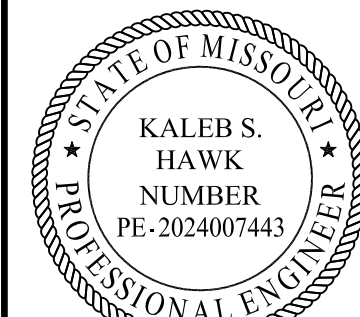
MoDOT

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

CLARKSON RADMACHER JOINT VENTURE

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

HNTB



*Kaleb S. Hawk*  
7-2-2025

DATE PREPARED  
06/25/2025  
ROUTE 1-70 STATE MO  
DISTRICT BR SHEET NO. B11-17  
COUNTY JACKSON  
JOB NO. J411486D  
CONTRACT ID. 240807-C01  
PROJECT NO.

BRIDGE NO. A9631

DATE	DESCRIPTION
06/25/25 <td>REV 0 - RFC SUBMITTAL</td>	REV 0 - RFC SUBMITTAL

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

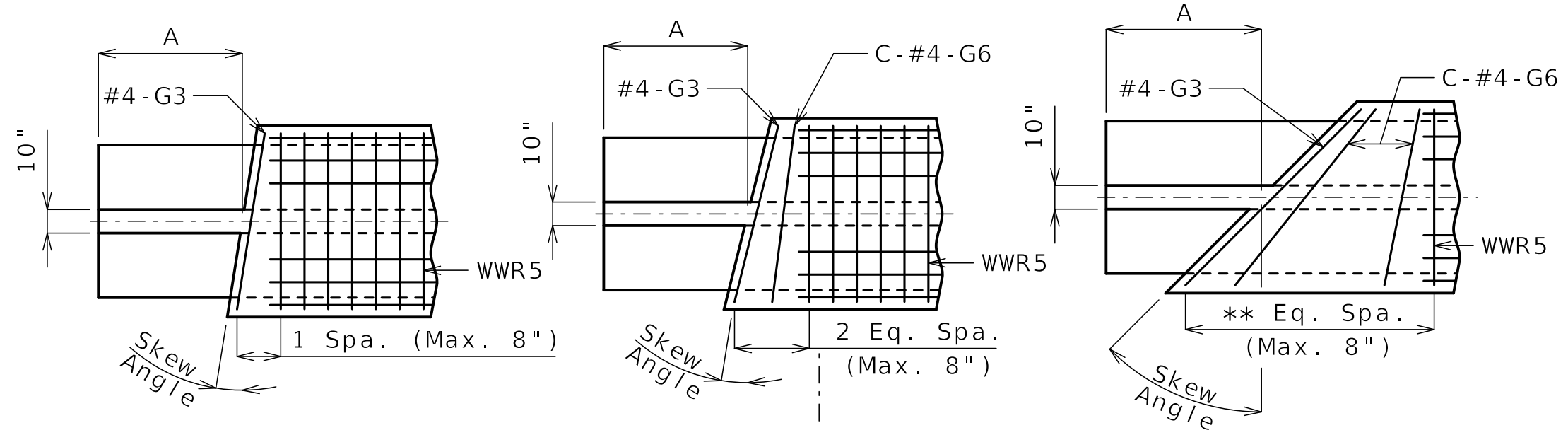
TABLE OF VARIABLES

Span No.	Girder No.	Bent No.	Detail	A	B	C	D	E	F
1-2	1-9	1	3	2'-3 <sup>1</sup> / <sub>4</sub> "	---	4	4'-6"	---	Varies
1-2	1	2	4	16 <sup>1</sup> / <sub>2</sub> "	5 <sup>3</sup> / <sub>4</sub> "	---	---	3'-2"	---
1-2	2-8	2	3	16 <sup>5</sup> / <sub>8</sub> "	---	4	4'-6"	---	Varies
1-2	9	2	4	16 <sup>3</sup> / <sub>4</sub> "	6"	---	---	3'-2"	---
2-3	1	2	4	20 <sup>5</sup> / <sub>8</sub> "	9 <sup>7</sup> / <sub>8</sub> "	---	---	3'-2"	---
2-3	2-8	2	3	20 <sup>1</sup> / <sub>2</sub> "	---	4	4'-6"	---	Varies
2-3	9	2	4	20 <sup>3</sup> / <sub>8</sub> "	9 <sup>5</sup> / <sub>8</sub> "	---	---	3'-2"	---
2-3	1-9	3	3	23 <sup>1</sup> / <sub>4</sub> "	---	4	4'-6"	---	Varies

BILL OF REINFORCING STEEL - EACH GIRDER				BENDING DIAGRAMS
NO.	SIZE & MARK	ACTUAL LENGTH	SHAPE	
2	4 G3	D	20	SHAPE 20
2	4 G4	2'-3"	20	
2	4 G5	E	20	
*	4 G6	F	20	

\* Total for each girder is the total value of the two "C" variables per span provided in the Table of Variables

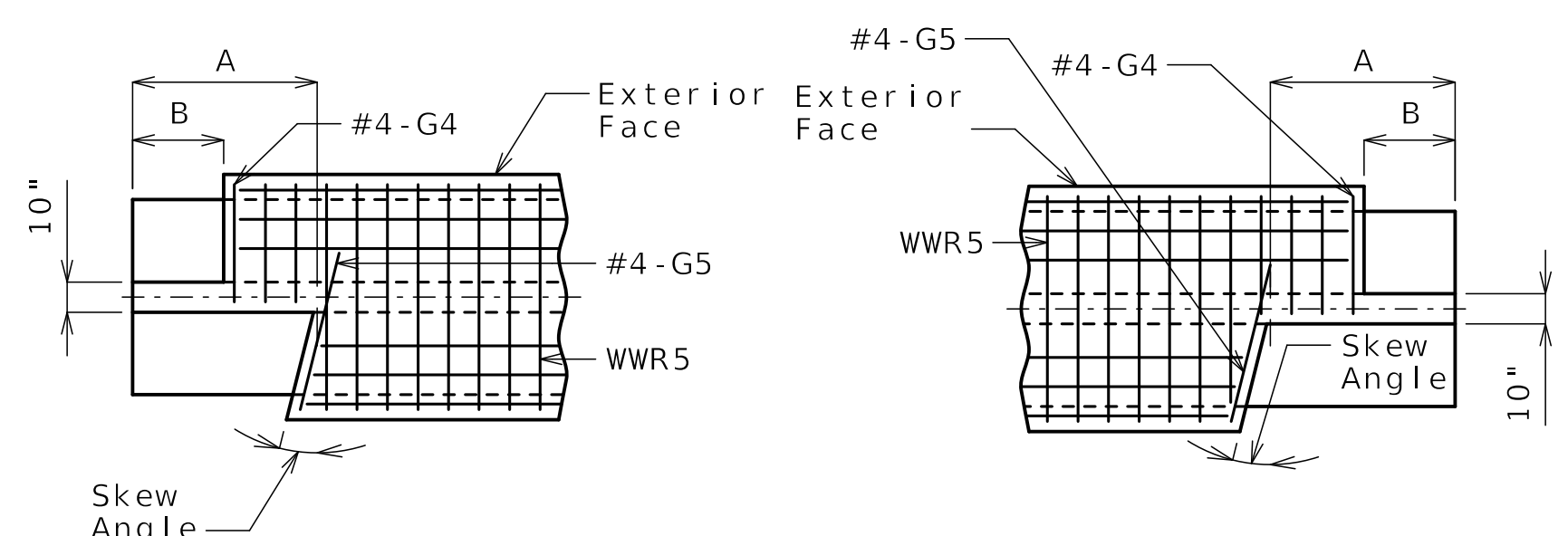
Note: 'C' = zero for Detail 1



DETAIL 1  
(0° to 7° Skew)

DETAIL 2  
(>7° to 14° Skew)

DETAIL 3  
(>14° Skew)



DETAIL 4

(Left exterior girder shown, rotate 180° for right exterior girder)

TOP FLANGE BLOCKOUT DETAILS

(See Table of Variables for detail assignment to specific girders)  
(Left advance skew shown, mirror for right advance skew)

**Released For Construction**  
Not to Scale  
Revision: 0.0  
Date: 07/07/2025  
Package: BRD-11-27th St.

Notes:  
For additional Girder notes, see Sheets No. B11-15 thru B11-16.

NU-GIRDER DETAILS





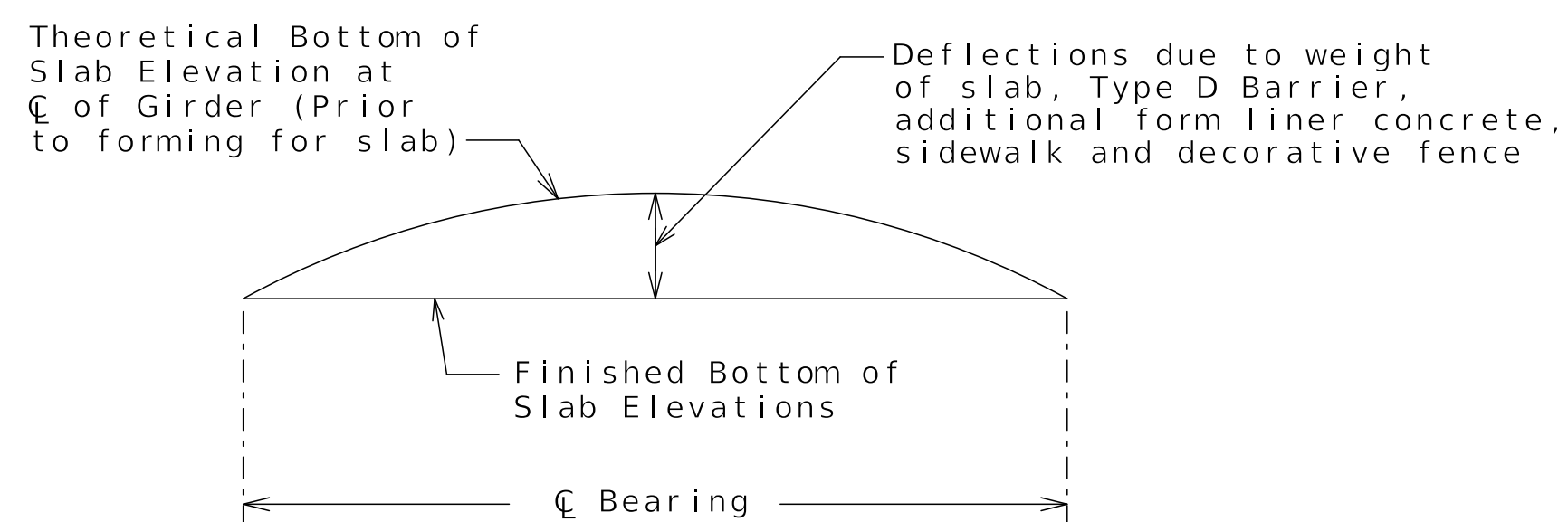
Theoretical Bottom of Slab Elevations at Centerline of Girder  
(Prior to forming for slab)(Estimated at 90 days)\*\*

Girder Number	Span (1-2) (95'-8 1/8" C Brg. - C Brg.)										
	C Brg.	.10	.20	.30	.40	.50	.60	.70	.80	.90	C Brg.
1	924.74	925.54	926.32	927.07	927.77	928.44	929.07	929.65	930.20	930.72	931.21
2	925.24	926.05	926.82	927.56	928.26	928.92	929.54	930.11	930.65	931.15	931.62
3	925.74	926.54	927.30	928.04	928.73	929.38	929.99	930.55	931.08	931.57	932.03
4	926.24	927.02	927.78	928.50	929.19	929.83	930.43	930.98	931.50	931.98	932.44
5	926.71	927.49	928.23	928.95	929.62	930.25	930.84	931.39	931.90	932.37	932.82
6	926.90	927.67	928.41	929.12	929.78	930.40	930.98	931.52	932.02	932.49	932.92
7	927.07	927.83	928.56	929.26	929.91	930.53	931.10	931.63	932.12	932.57	933.00
8	927.24	927.99	928.71	929.40	930.04	930.65	931.21	931.73	932.21	932.66	933.08
9	927.40	928.13	928.84	929.51	930.15	930.74	931.30	931.81	932.29	932.73	933.15

Girder Number	Span (2-3) (87'-8 1/8" C Brg. - C Brg.)										
	C Brg.	.10	.20	.30	.40	.50	.60	.70	.80	.90	C Brg.
1	931.30	931.84	932.36	932.86	933.33	933.77	934.17	934.55	934.89	935.21	935.51
2	931.71	932.25	932.77	933.26	933.72	934.15	934.55	934.91	935.25	935.56	935.84
3	932.12	932.65	933.16	933.64	934.10	934.52	934.91	935.27	935.59	935.89	936.17
4	932.52	933.05	933.55	934.02	934.47	934.88	935.26	935.61	935.93	936.22	936.49
5	932.90	933.42	933.91	934.38	934.82	935.22	935.59	935.93	936.24	936.53	936.79
6	933.00	933.51	934.00	934.46	934.89	935.28	935.65	935.98	936.28	936.55	936.81
7	933.08	933.58	934.06	934.51	934.93	935.32	935.67	936.00	936.29	936.56	936.80
8	933.16	933.65	934.12	934.56	934.97	935.35	935.70	936.01	936.30	936.56	936.79
9	933.22	933.70	934.16	934.59	934.99	935.36	935.70	936.01	936.29	936.55	936.78

\*\*Elevations are based on a constant slab thickness of 8 1/2" and include allowance for theoretical dead load deflections due to weight of slab (including Type D Barrier, additional form liner concrete, sidewalk and decorative pedestrian fence).



TYPICAL SLAB ELEVATIONS DIAGRAM

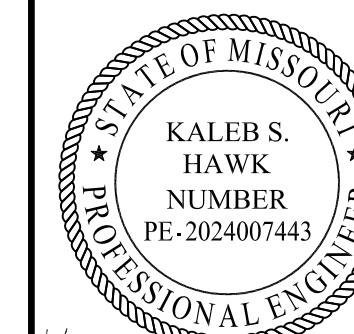
**Released For Construction**  
Not to Scale  
Revision: 0.0  
Date: 07/07/2025  
Package: BRD-11-27th St.

THEORETICAL BOTTOM OF SLAB ELEVATIONS

Detailed MAR 2025  
Checked APR 2025

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

Sheet No. B11-20 of B11-35



*Kaleb S. Hawk*  
7-2-2025

DATE PREPARED  
06/25/2025

ROUTE 1-70 STATE MO

DISTRICT BR SHEET NO. B11-20

COUNTY JACKSON

JOB NO. J411486D

CONTRACT ID. 240807-C01

PROJECT NO.

BRIDGE NO. A9631

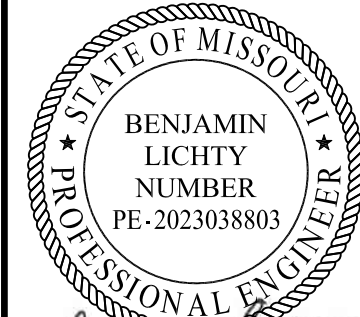
DATE	DESCRIPTION
06/25/25	REV 0 - RFC SUBMITTAL

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

**CLARKSON RADMACHER**  
JOINT VENTURE

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



Benjamin Lichty  
07-02-2025

DATE PREPARED  
06/25/2025

ROUTE STATE  
I-70 MO

DISTRICT SHEET NO.  
BR B11-21

COUNTY  
JACKSON

JOB NO.  
J411486D

CONTRACT ID.  
240807-C01

PROJECT NO.

BRIDGE NO.  
A9631

DESCRIPTION  
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DATE  
06/25/25

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

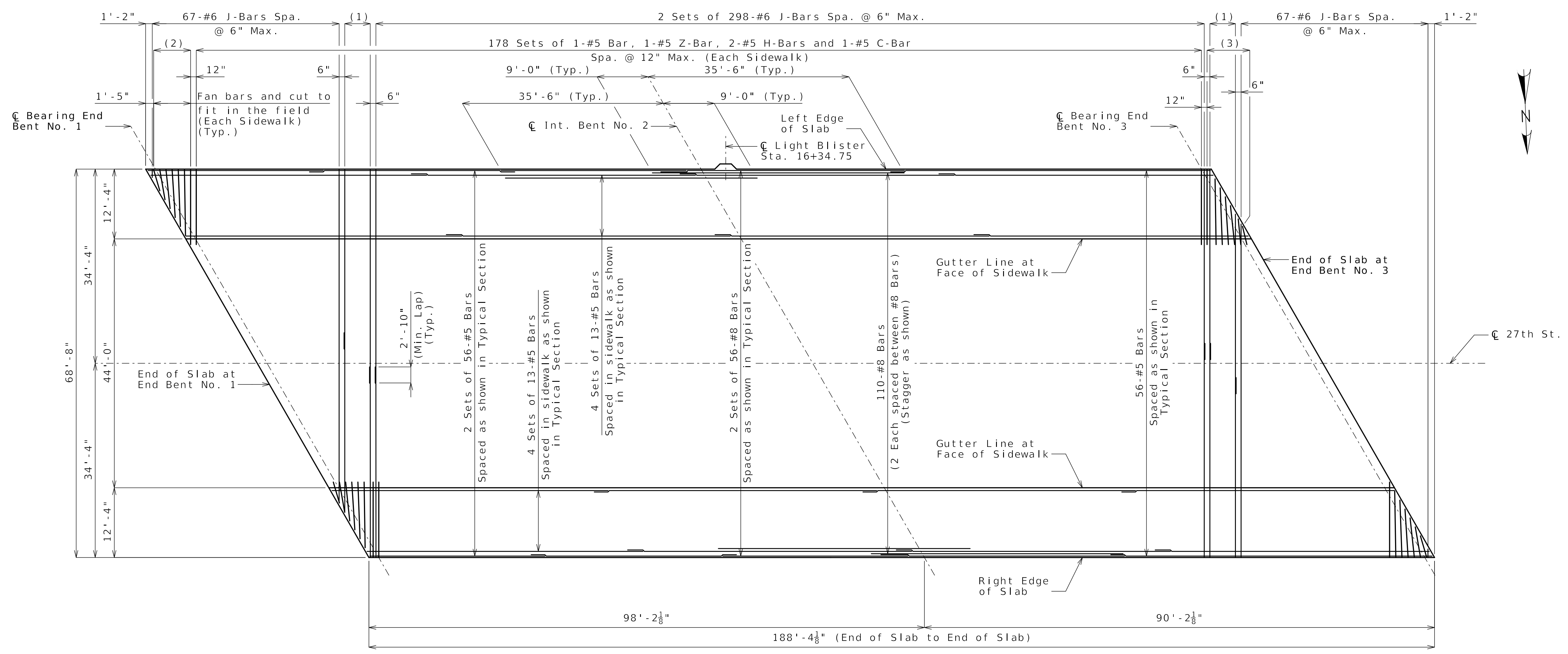
MoDOT

CLARKSON RADMACHER JOINT VENTURE

715 KIRK DRIVE KANSAS CITY, MO 64105-1310

CERTIFICATE OF AUTHORITY NO. 001270

HNTB



SPAN (1-2) SPAN (2-3)  
TOP REINFORCEMENT

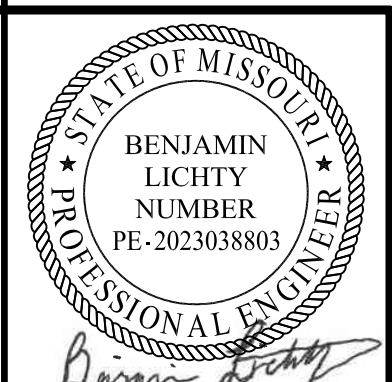
- (1) 10-#6 J-Bars @ 6" Max. spaced with 10-#6 Bars
- (2) 7-#5 Bars, 1-#5 Z-Bar, 10-#5 H-Bars and 7-#5 C-Bars Spa. @ 12" Max. (Each Sidewalk)
- (3) 7-#5 Bars, 7-#5 Z-Bars, 10-#5 H-Bars and 1-#5 C-Bar Spa. @ 12" Max. (Each Sidewalk)

Minimum Lap Splices:  
Longitudinal  
#8 = 4'-9"  
#5 = 2'-5"

Notes:  
Work this sheet with Sheet No. B11-22.  
For Typical Section, see Sheet No. B11-23.  
For Slab Pouring Sequence, see Sheet No. B11-22.  
For Details and Reinforcement of Type D Barrier, see Sheet No. B11-24.  
For Camber Diagram and Theoretical Slab Haunching Diagram, see Sheet No. B11-19.  
For Theoretical Bottom of Slab Elevations, see Sheet No. B11-20.  
Longitudinal slab dimensions are measured horizontally.  
For Light Blister Reinforcing and Details, see Sheet No. B11-26.

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Not to Scale  
Revision: 0.0  
Date: 07/07/2025  
Package: BRD-11-27th St.

SLAB PLAN SHOWING TOP REINFORCEMENT



Benjamin Lichty  
07-02-2025

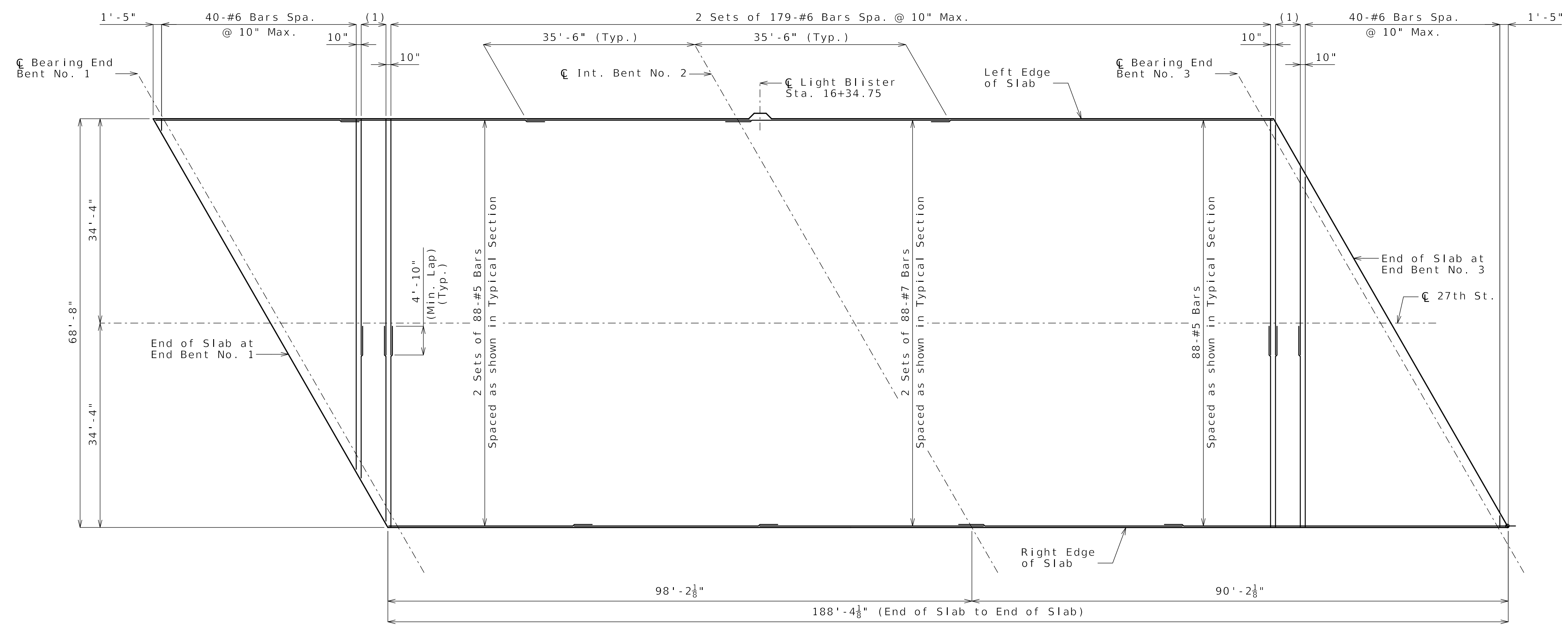
DATE PREPARED 06/25/2025	
ROUTE I-70	STATE MO
DISTRICT BR	SHEET NO. B11-22
COUNTY JACKSON	
JOB NO. J411486D	
CONTRACT ID. 240807-C01	
PROJECT NO.	

BRIDGE NO.  
A9631

DATE	DESCRIPTION
06/25/25	REV 0 - RFC SUBMITTAL

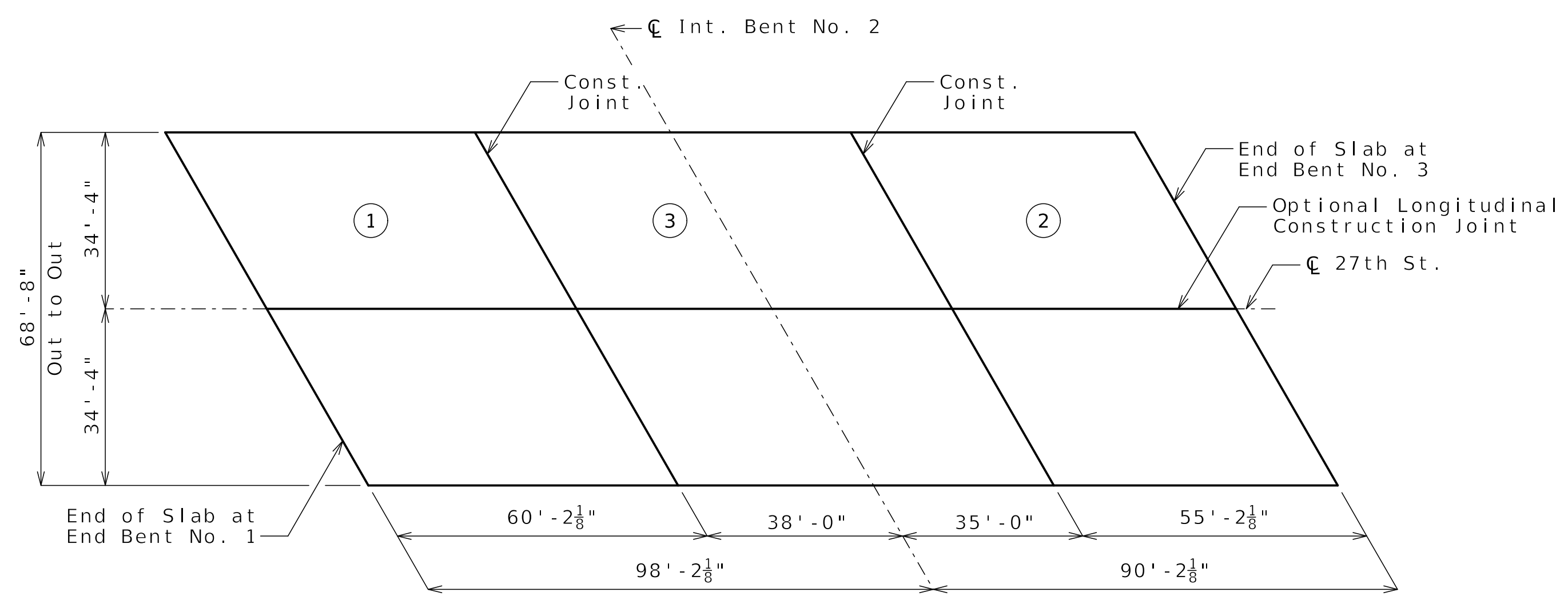
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
 105 WEST CAPITOL JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)

**CLARKSON RADMACHER** JOINT VENTURE  
 715 KIRK DRIVE KANSAS CITY, MO 64105-1310  
 CERTIFICATE OF AUTHORITY NO. 001270  
**HNTB**



(1) 6-#6 Bars @ 10" Max. spaced with 6-#6 Bars  
 SPAN (1-2)  
 SPAN (2-3)  
 Minimum Lap Splices:  
 Longitudinal  
 #7 = 4'-2"  
 #5 = 3'-0"

**BOTTOM REINFORCEMENT**



	Sequence of Pours			Min. Rate of Pour Cu. Yds./Hr.
	Direction			
Basic Sequence	1	3	2	25*
	End to 3	1 to 2	3 to End	
Alternate pours to the basic skip sequence are subject to the approval of the engineer in accordance with Sec 703.				
Alternate A Pours	1	3 + 2		65*
	End to 3	1 to End		
Alternate B Pours	1 + 3 + 2			65*
	End to End			

The contractor shall furnish an approved retarder to retard the set of the concrete to 2.5 hours, and shall pour and satisfactorily finish the slab pours at the rate given.

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

\*A minimum finishing rate of 20 LF/HR shall be maintained, otherwise the optional longitudinal construction joint shall be required.

**SLAB POURING SEQUENCE**

**Released For Construction**  
 Not to Scale  
 Revision: 0.0  
 Date: 07/07/2025  
 Package: BRD-11-27th St.

Notes:  
 Work this sheet with Sheet No. B11-21.

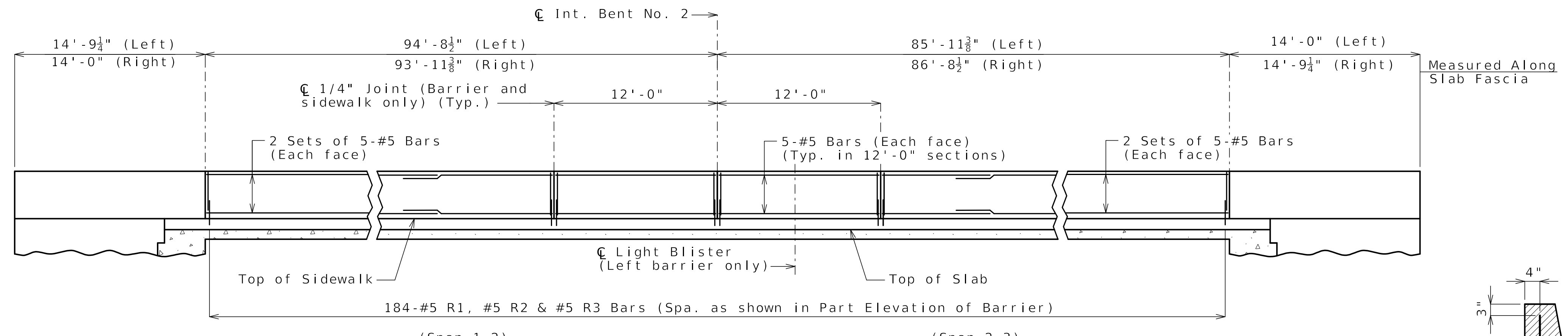
**SLAB PLAN SHOWING BOTTOM REINFORCEMENT**

Detailed MAR 2025  
 Checked APR 2025

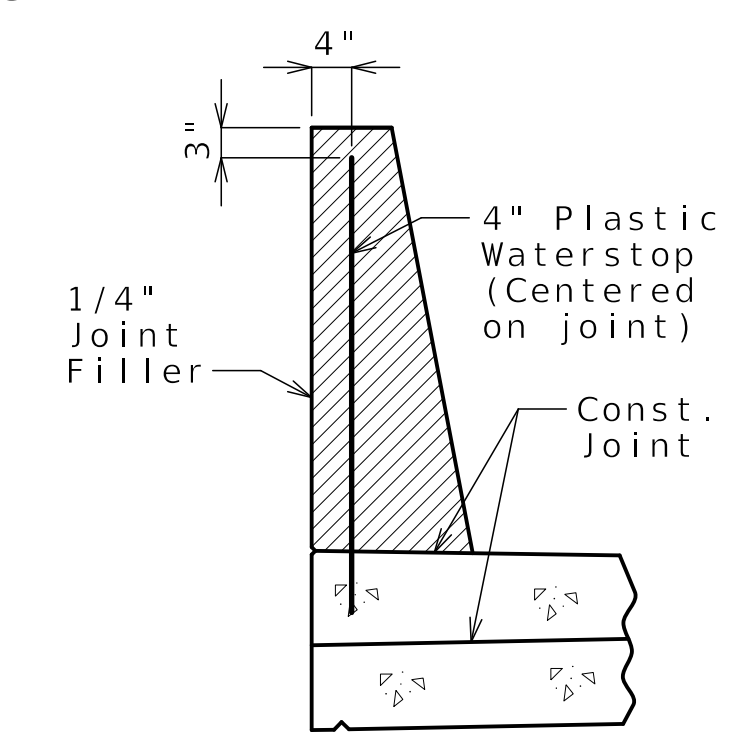
Note: This drawing is not to scale. Follow dimensions.

Sheet No. B11-22 of B11-35





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



**WATERSTOP DETAIL**

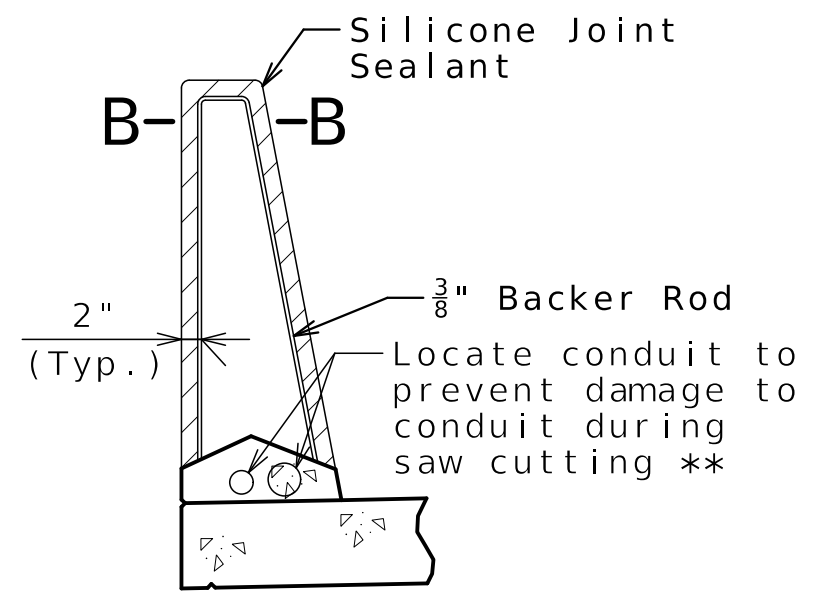
Plastic waterstop shall be placed in all formed joints.

**General Notes:**

- \*\* 1-2"Ø and 1-3"Ø PVC Conduit in left barrier.
- For Details of Conduit System on Structure, see Sheet No. B11-29.
- Conventional forming shall be used. Saw cut joints may be used with conventional forming.
- Top of barrier shall be built parallel to grade and barrier joints (except at end bents) normal to grade.
- All exposed edges of barrier shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.
- Concrete in barrier shall be Class B-1.
- 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.

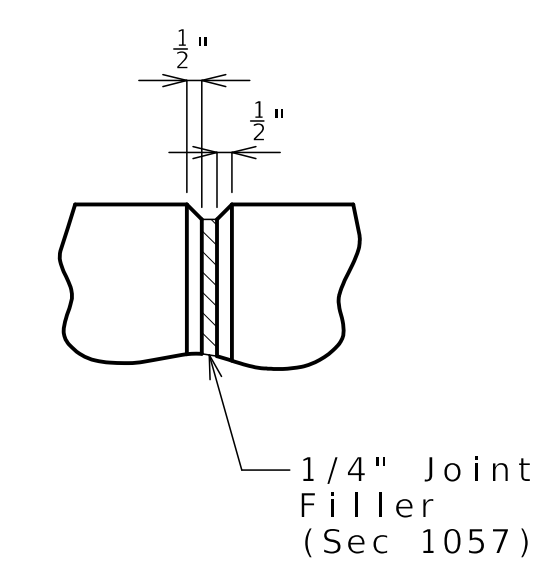
- Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.
- Plastic waterstop shall not be used with saw cut joints.
- For Form Liner and Aesthetic Stain details of barrier not shown, see Sheet No. B11-28.
- For Decorative Pedestrian Fence Details, see Sheet No. B11-27
- Reinforcing steel shall be shifted in the field to clear resin anchors for decorative fence.
- For Light Blister details, see Sheet No. B11-26.

**TYPE D BARRIER**

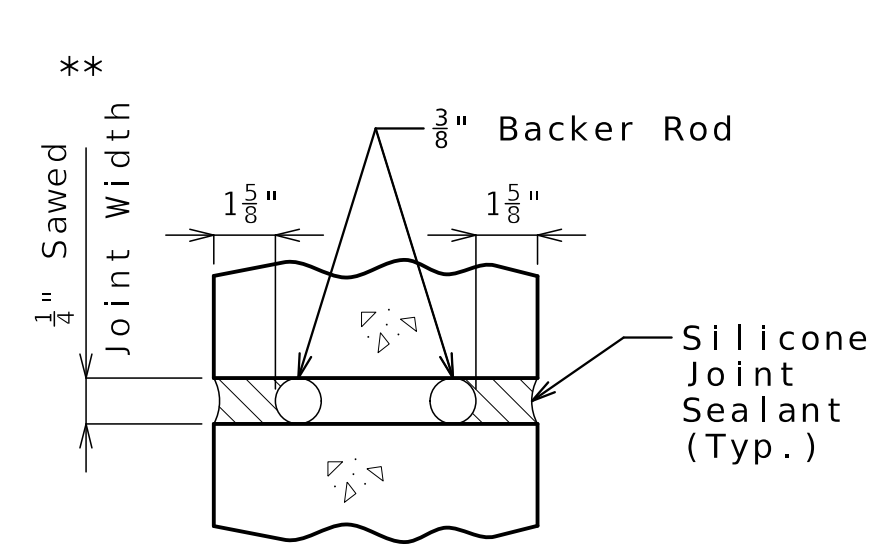


**SECTION THRU SAW CUT JOINT**

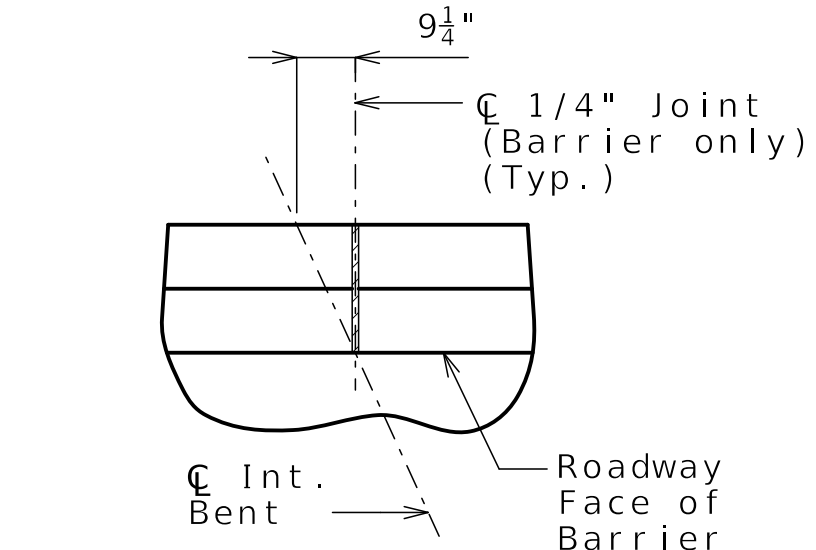
(Form liner and aesthetic details not shown.)



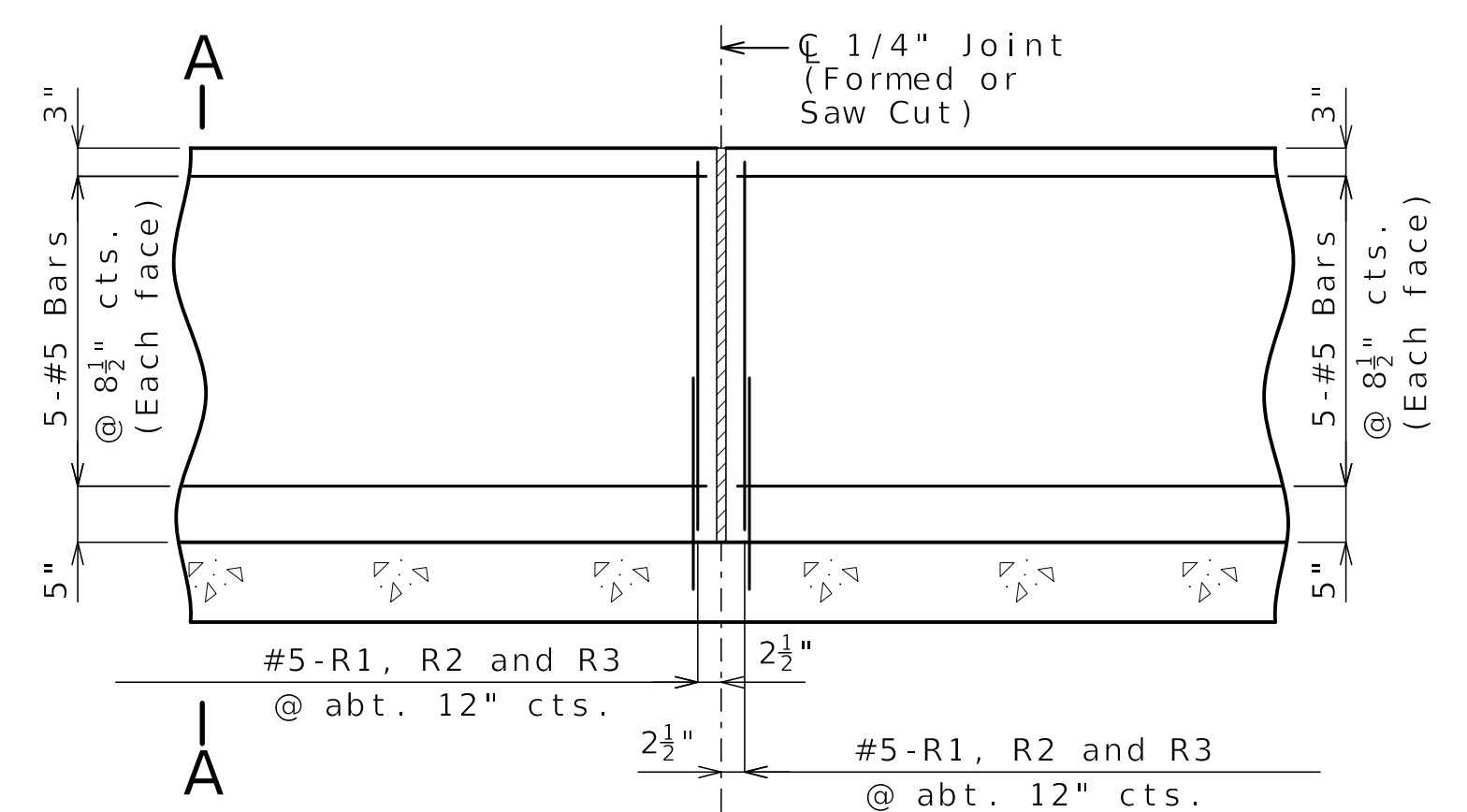
**PART ELEVATION AT FORMED JOINT**



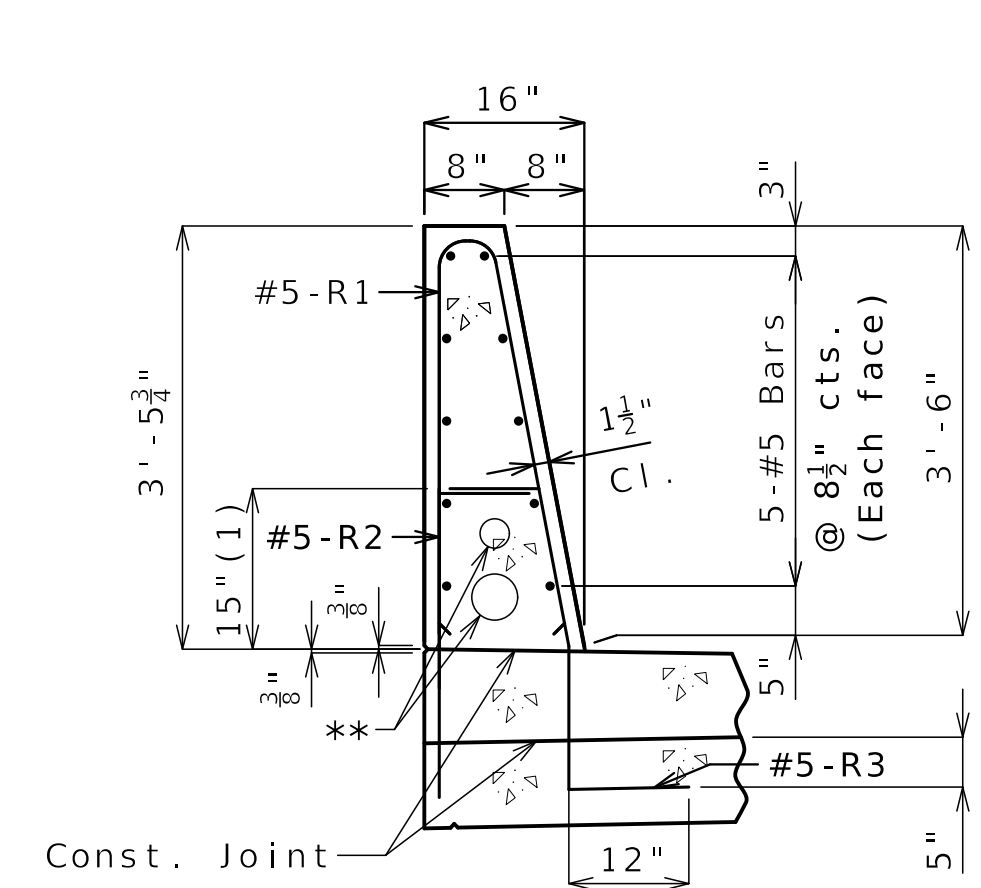
**SECTION B-B**



**PART PLAN SHOWING JOINT LOCATION**



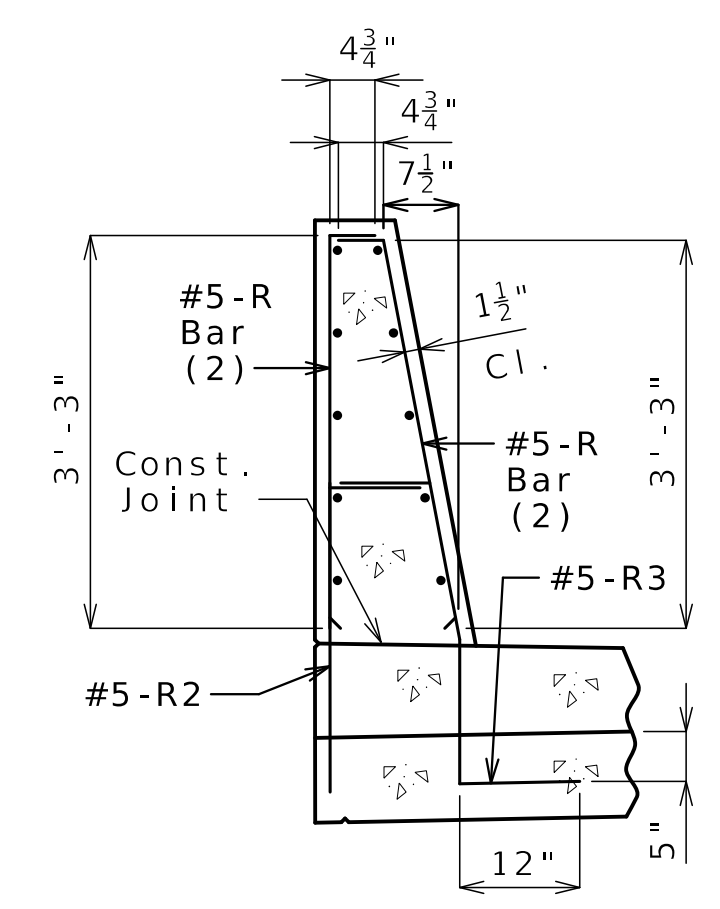
**PART ELEVATION OF BARRIER**



**SECTION A-A**

(Form liner aesthetic details not shown.)

Use a minimum lap of 3'-1" for #5 horizontal barrier bars.  
 (1) To top of bar



**R-BAR PERMISSIBLE ALTERNATE SHAPE**

(Form liner aesthetic details not shown.)

(2) 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.)

**Released For Construction**  
 Not to Scale  
 Revision: 0.0  
 Date: 07/07/2025  
 Package: BRD-11-27th St.

**BENJAMIN LICHTY**  
 NUMBER PE-2023038803  
 STATE OF MISSOURI  
 PROFESSIONAL ENGINEER

*Benjamin Lichty*  
 07-02-2025

DATE PREPARED <b>06/25/2025</b>	
ROUTE <b>I-70</b>	STATE <b>MO</b>
DISTRICT <b>BR</b>	SHEET NO. <b>B11-24</b>
COUNTY <b>JACKSON</b>	
JOB NO. <b>J411486D</b>	
CONTRACT ID. <b>240807-C01</b>	
PROJECT NO.	
BRIDGE NO. <b>A9631</b>	
DESCRIPTION REV 0 - RFC SUBMITTAL	DATE 06/25/25

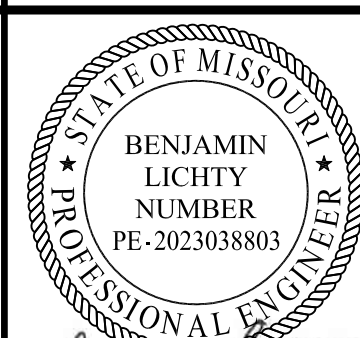
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

**CLARKSON RADMACHER**  
 JOINT VENTURE

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





*Benjamin Lichty*  
07-02-2025

DATE PREPARED  
06/25/2025

ROUTE STATE  
1-70 MO

DISTRICT SHEET NO.  
BR B11-26

COUNTY  
JACKSON

JOB NO.  
J411486D

CONTRACT ID.  
240807-C01

PROJECT NO.

BRIDGE NO.  
A9631

DESCRIPTION  
REV 0 - RFC SUBMITTAL

DATE  
06/25/25

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

105 WEST CAPITOL  
JEFFERSON CITY, MO 65102

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

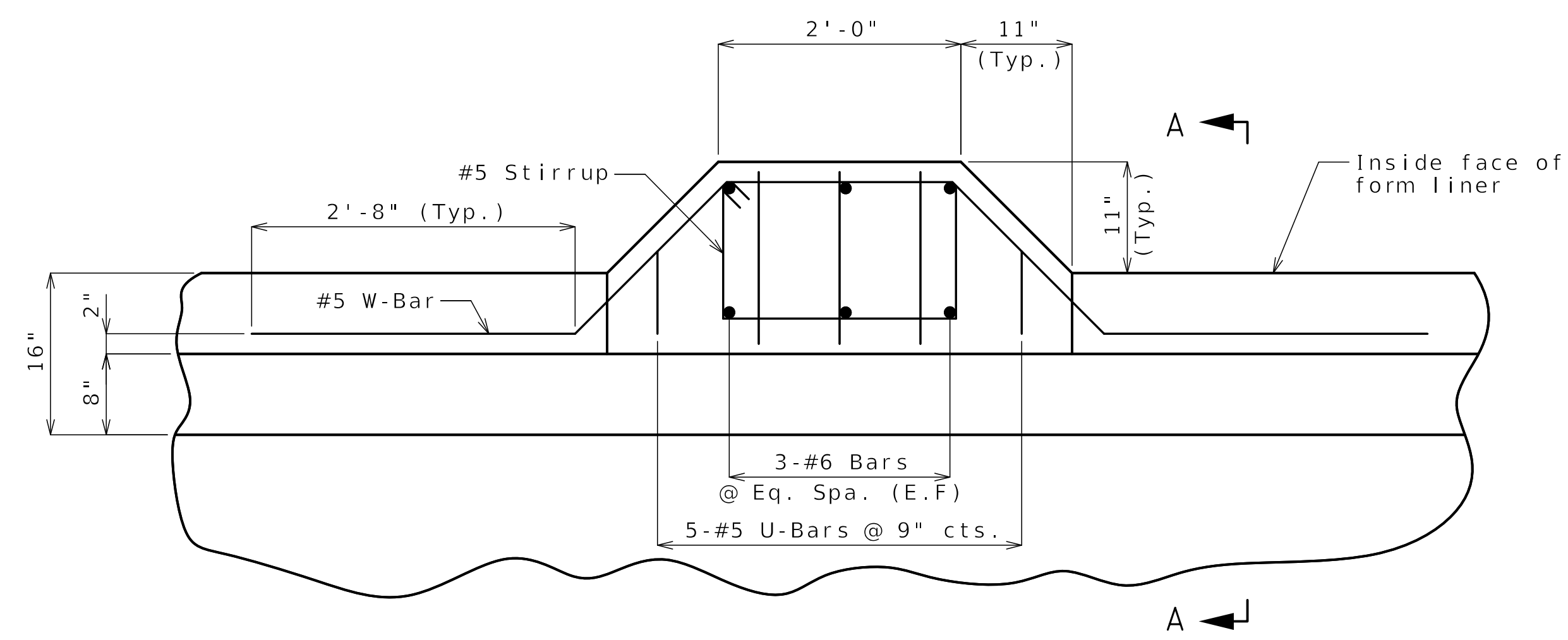
MoDOT

CLARKSON  
RADMACHER  
JOINT VENTURE

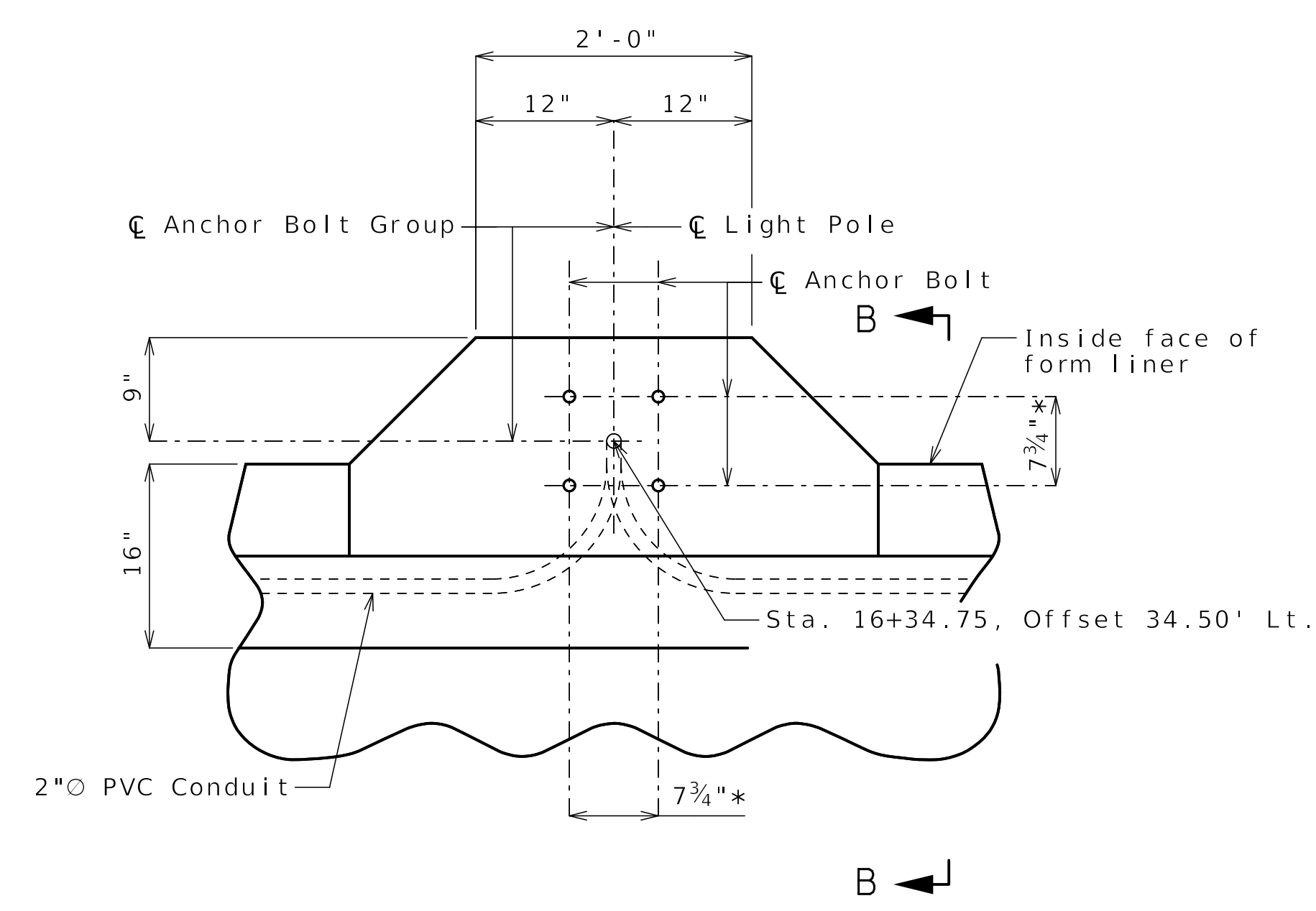
715 KIRK DRIVE  
KANSAS CITY, MO 64105-1310

CERTIFICATE OF AUTHORITY  
NO. 001270

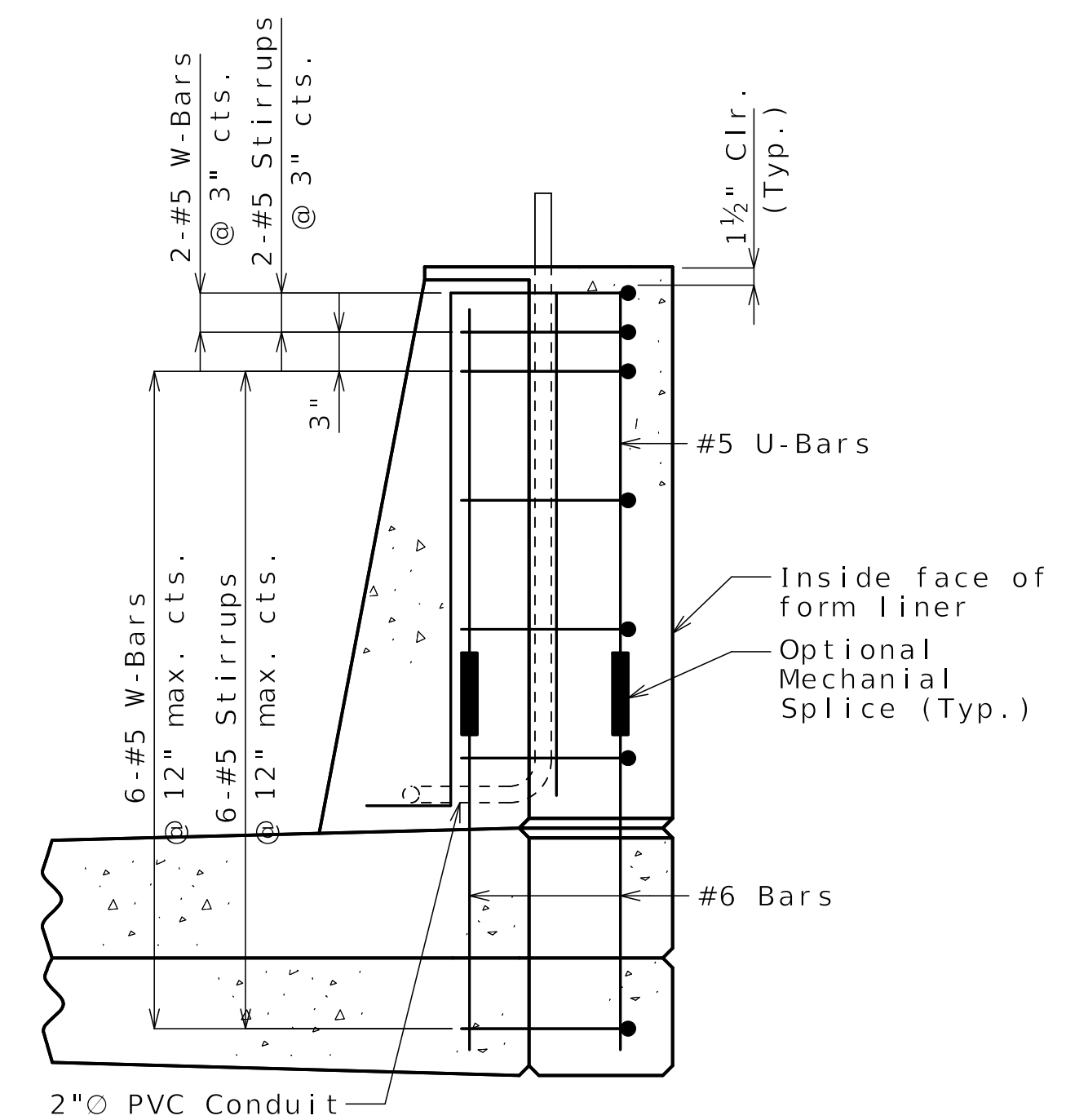
HNTB



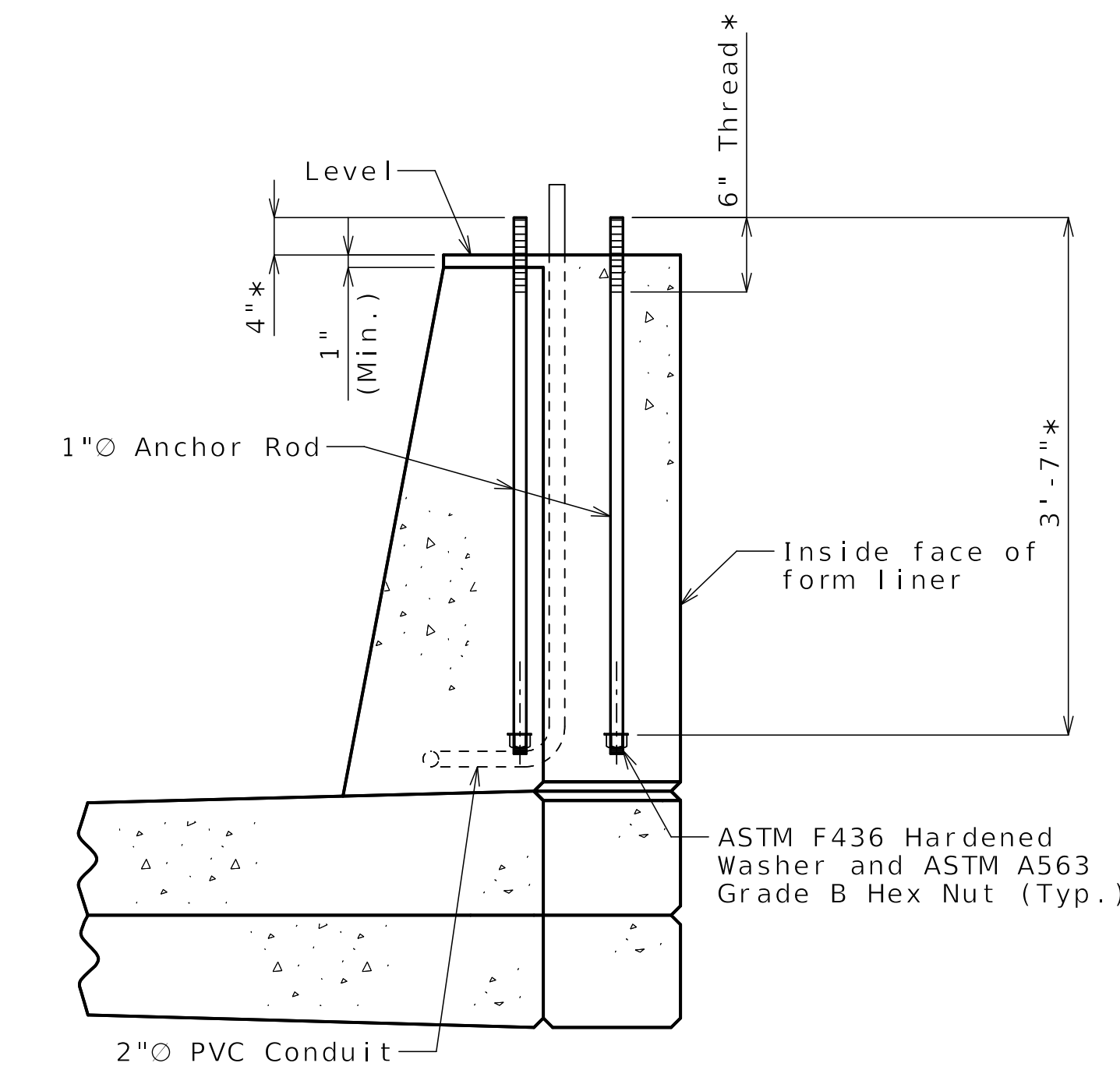
LIGHT POLE MOUNTING PLAN SHOWING REINFORCEMENT



LIGHT POLE MOUNTING PLAN



SECTION A-A



SECTION B-B

Notes:  
 \* Contractor shall confirm dimension with light pole manufacturer before setting anchor bolts.  
 Anchor bolts and nuts shall be ASTM F1554 Grade 55.  
 Anchor bolts, nuts and washers shall be galvanized in accordance with AASHTO M 232 (ASTM A153), Class C or ASTM B695, Class 55.  
 Top of light standard supports shall be made horizontal; anchor rods shall be placed vertically.  
 Contractor has the option to splice vertical bars with mechanical bar splices. Mechanical bar splices shall be in accordance with Sec 710.  
 For locations of light blister, see Sheets No. B11-21 and B11-22.  
 For Form Liner and Aesthetic Stain Details not shown, see Sheet No. B11-28.

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 Revision: 0.0  
 Date: 07/07/2025  
 Package: BRD-11-27th St.

LIGHT BLISTER DETAILS

Notes:

These details are a general representation of a Decorative Pedestrian Fence. The actual fence components and component positions may be different than what is shown.

Fence shall have a gloss back finish (Federal Standard #17038). See special provisions.

Base plate shall be ASTM A709, Grade 50.

All base plates, resin anchors, hex nuts and washers shall be galvanized in accordance with ASTM A123 and Sec 1081.

All fence posts shall be vertical.

Grout shall be placed under the post base plates in accordance with Sec 1066.

Decorative pedestrian fencing shall be in accordance with 2020-AASHTO LRFD Bridge Design Specifications (9th Ed.), except that a uniform load of 50lb/ft and a concentrated load of 200 lb need not be applied simultaneously.

Shop drawings and structural calculations will not be required for the decorative pedestrian fences on the Bridge Pre-qualified Products List.

All materials used in fabrication and construction of the decorative pedestrian fencing shall be in accordance with the manufacturer's specifications, except as modified in the contract documents.

Decorative pedestrian fencing system shall be supplied by only one manufacturer. Decorative pedestrian fencing system shall include all components except resin anchors and hardware. The assembly of the pickets to the rails and the rails to the posts shall be the same as the style mentioned for the manufacturer.

See Bridge Pre-qualified Products List (BPPL) for a list of approved manufacturers.

For details of Type D Barrier, see Sheet No. B11-24.

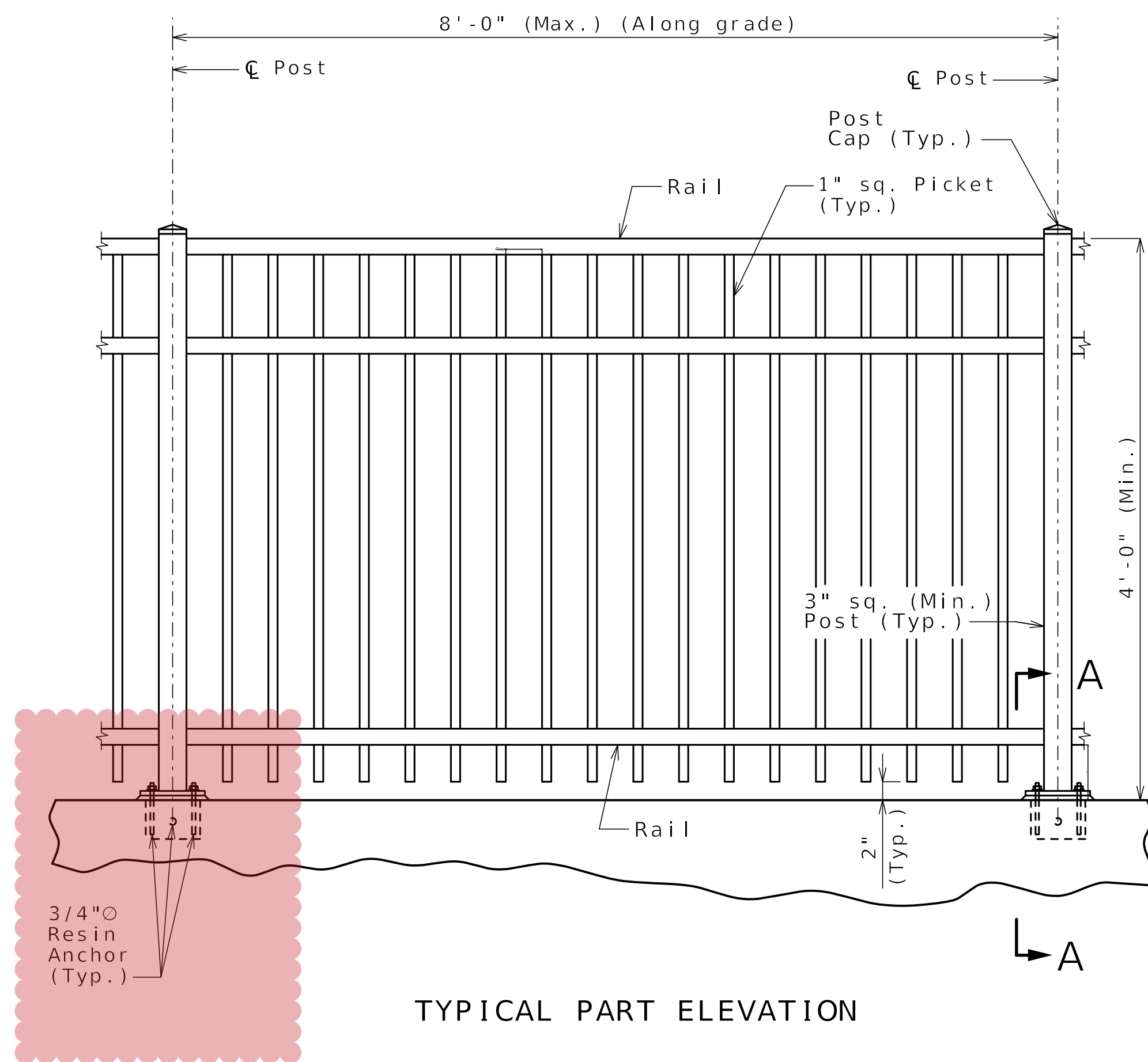
Longitudinal dimensions of fence are horizontal.

Resin Anchor Notes:

Resin anchors shall be ASTM F1554 Grade 36.

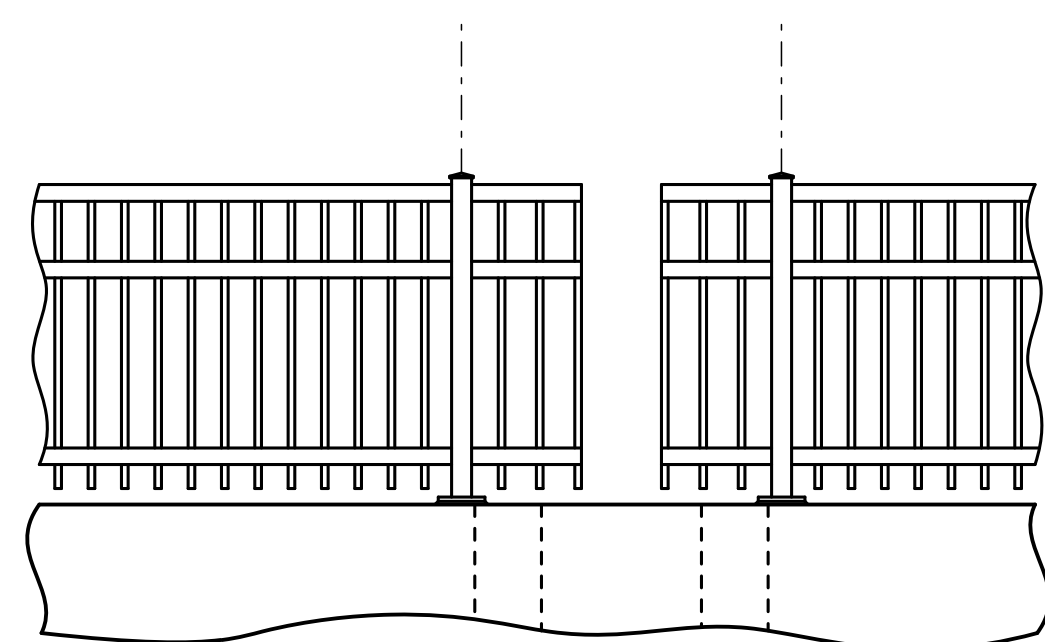
The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

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 7/8 inches.



TYPICAL PART ELEVATION

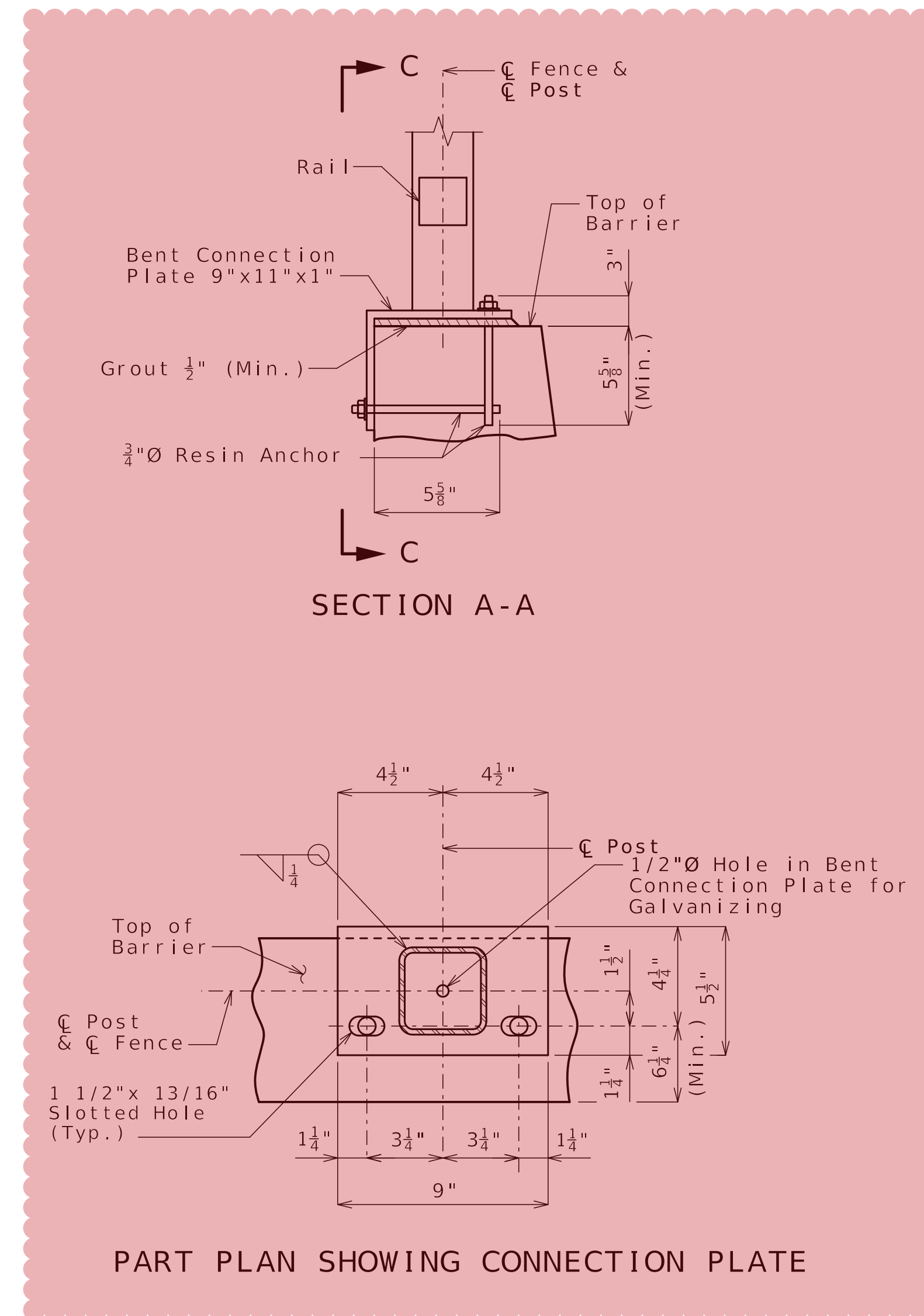
RFI 39 FOR U-BOLT BARRIER STEEL CONFLICT SOLUTION



TYPICAL DETAIL OF FENCE AT LIGHT STANDARDS

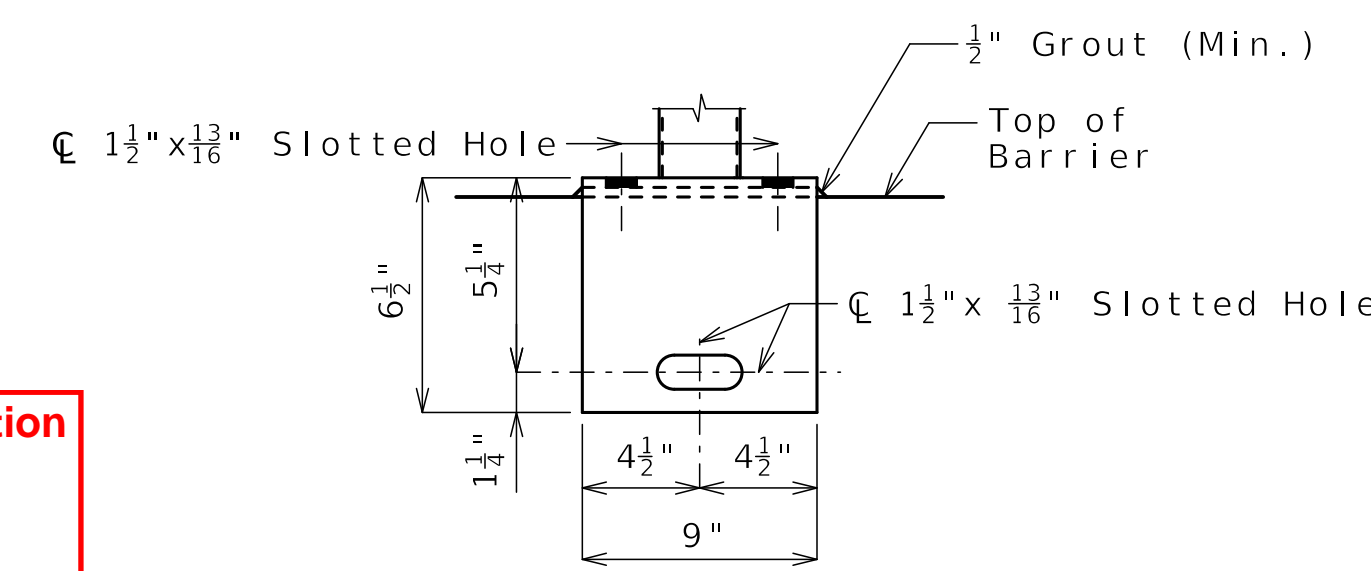
(1) Dimensions can be reduced and cantilevered fence section can be reduced or eliminated at Contractor's option so long as 4" max. gap is maintained between decorative pedestrian fence elements and light pole.

**Released For Construction**  
Not to Scale  
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Date: 07/07/2025  
Package: BRD-11-27th St.



SECTION A-A

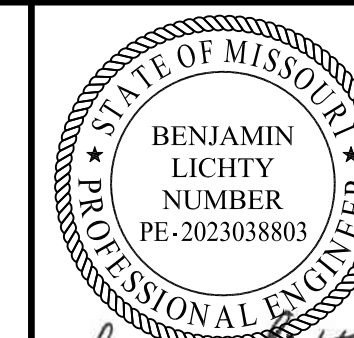
PART PLAN SHOWING CONNECTION PLATE



ELEVATION C-C

1/2-inch diameter hole in bent connection plate not shown for clarity.

DECORATIVE PEDESTRIAN FENCE DETAILS



Benjamin Lichty  
07-02-2025

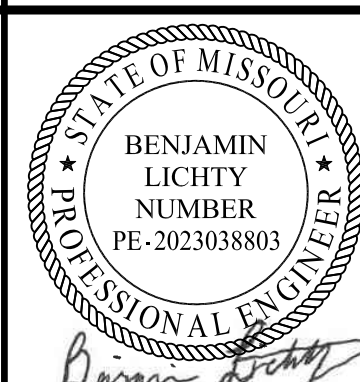
DATE PREPARED 06/25/2025	
ROUTE I-70	STATE MO
DISTRICT BR	SHEET NO. B11-27
COUNTY JACKSON	
JOB NO. J411486D	
CONTRACT ID. 240807-C01	
PROJECT NO.	

BRIDGE NO.  
A9631

DATE	DESCRIPTION
06/25/25	REV 0 - RFC SUBMITTAL

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

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



Benjamin Lichty  
07-02-2025

DATE PREPARED  
06/25/2025

ROUTE STATE  
I-70 MO

DISTRICT SHEET NO.  
BR B11-28

COUNTY  
JACKSON

JOB NO.  
J411486D

CONTRACT ID.  
240807-C01

PROJECT NO.

BRIDGE NO.  
A9631

DESCRIPTION  
REV 0 - RFC SUBMITTAL

DATE  
06/25/25

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

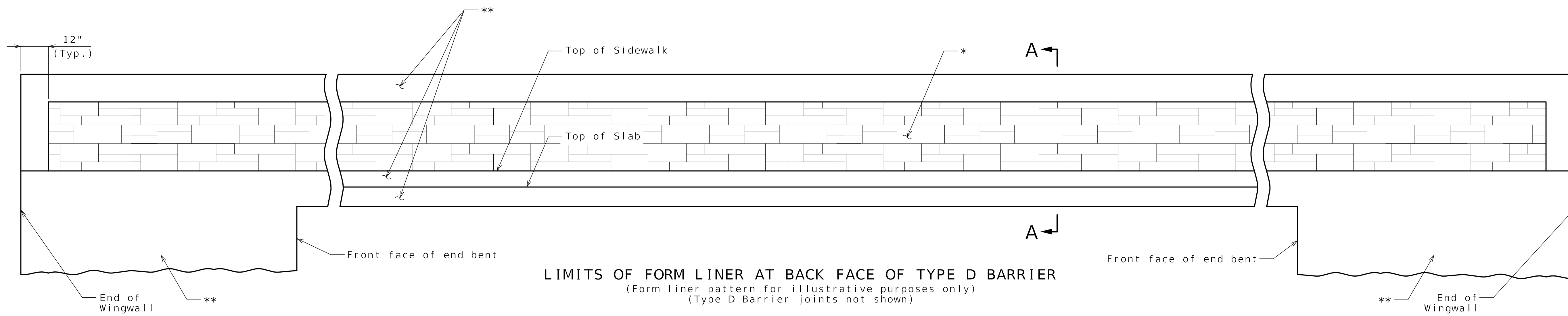
MoDOT

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

CLARKSON  
RADMACHER  
JOINT VENTURE

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

HNTB



**LIMITS OF FORM LINER AT BACK FACE OF TYPE D BARRIER**  
(Form liner pattern for illustrative purposes only)  
(Type D Barrier joints not shown)

Form Liner and Aesthetic Concrete Stain for bridges are not a part of the base contract and are not yet contracted for this Project with MoDOT.

**General Notes:**

\*\*Concrete and masonry protective coating and sacrificial graffiti protective coating shall be applied in accordance with Sec 711 to surfaces to receive form liner treatment and as noted in details on this sheet.

Protective coatings shall be compatible with Aesthetic Concrete Stain.

**Concrete Form Liner Notes:**

Form liner shall be constructed in accordance with Special Provisions.

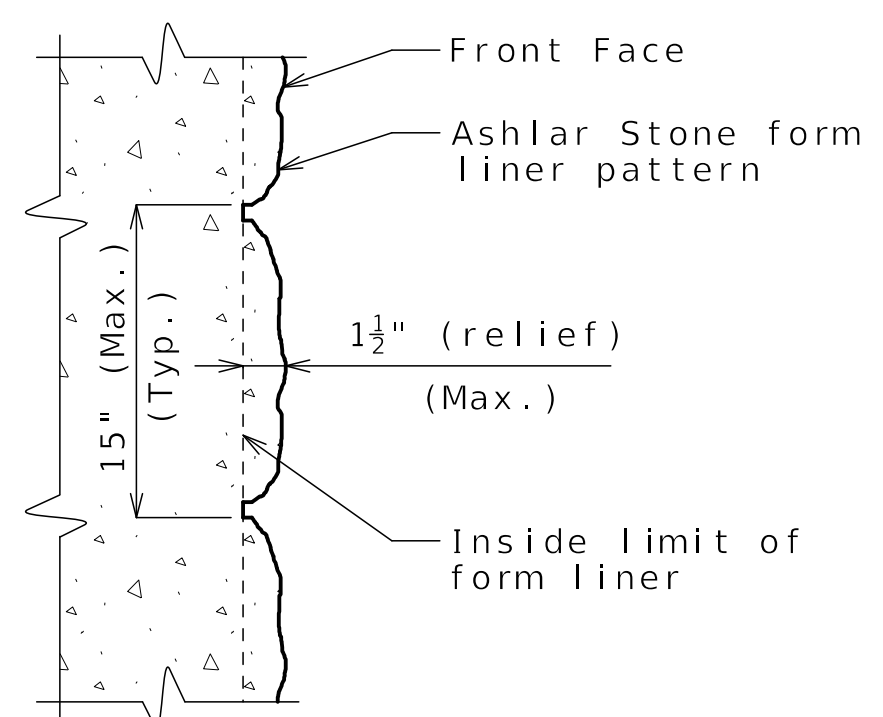
The following is a list of form liner manufacturers and types which may be used. Depth of relief for all form liner patterns shall vary up to 1 1/2". The height of any single "stone" shall be 15" maximum.

- Scott System, Inc.: Form liner pattern #167 "Ashlar Stone"
- Fitzgerald Formliners: Form liner pattern #16986 "Ashlar Stone"
- Greenstreak: Form liner pattern #330 "Ashlar Stone"
- Spec Formliners: Form liner pattern #1515 "Ashlar Stone"
- Customrock: Form liner pattern #12020 "Tollway Ashlar"
- An approved equal

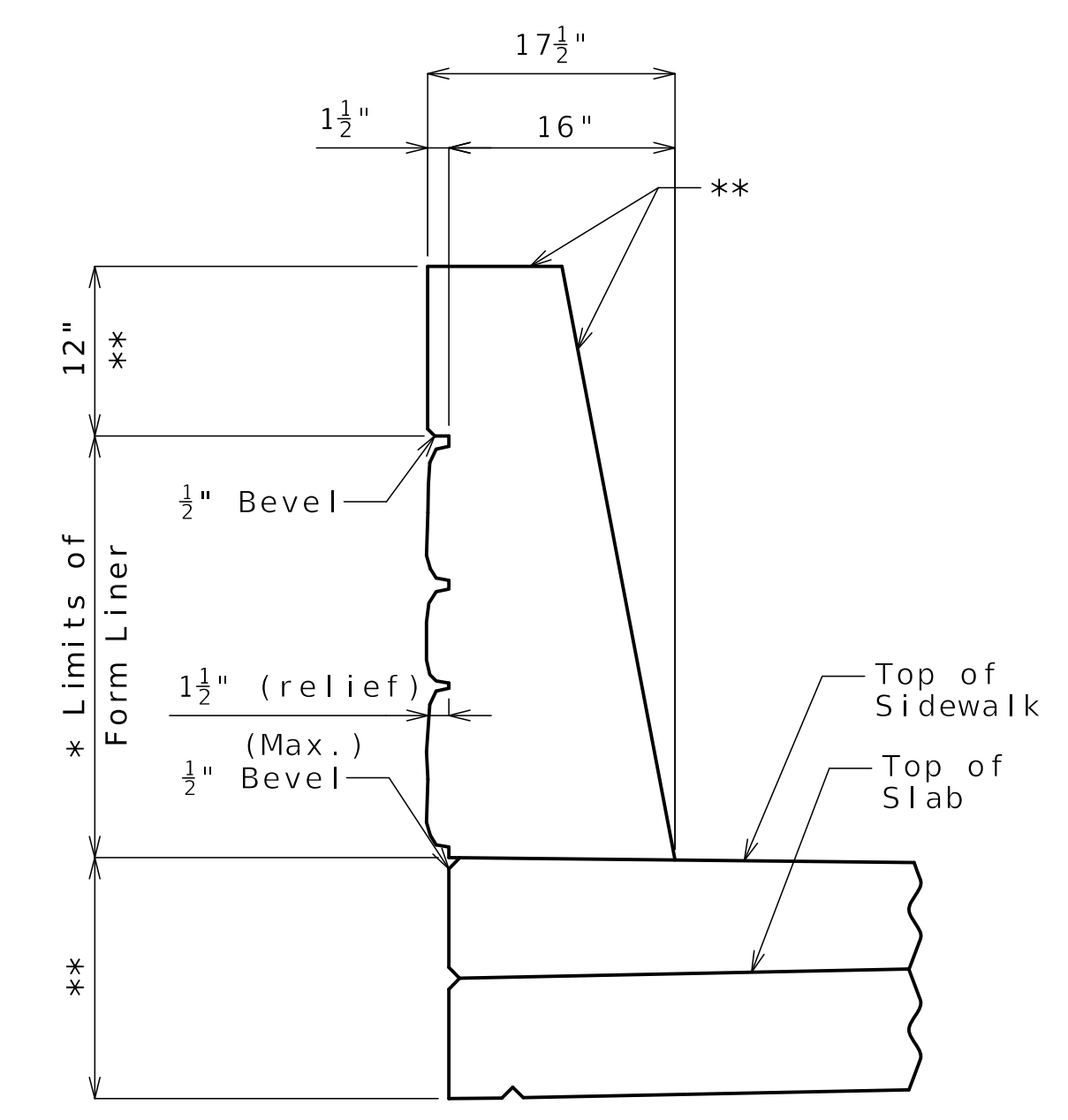
**Aesthetic Concrete Stain Notes:**

\* Surface to receive Aesthetic Concrete Stain. The color shall be Federal Standard #37150.

Aesthetic Concrete Stain shall be applied in accordance with Sec 711 as shown in the plans.



**FORM LINER DETAIL**

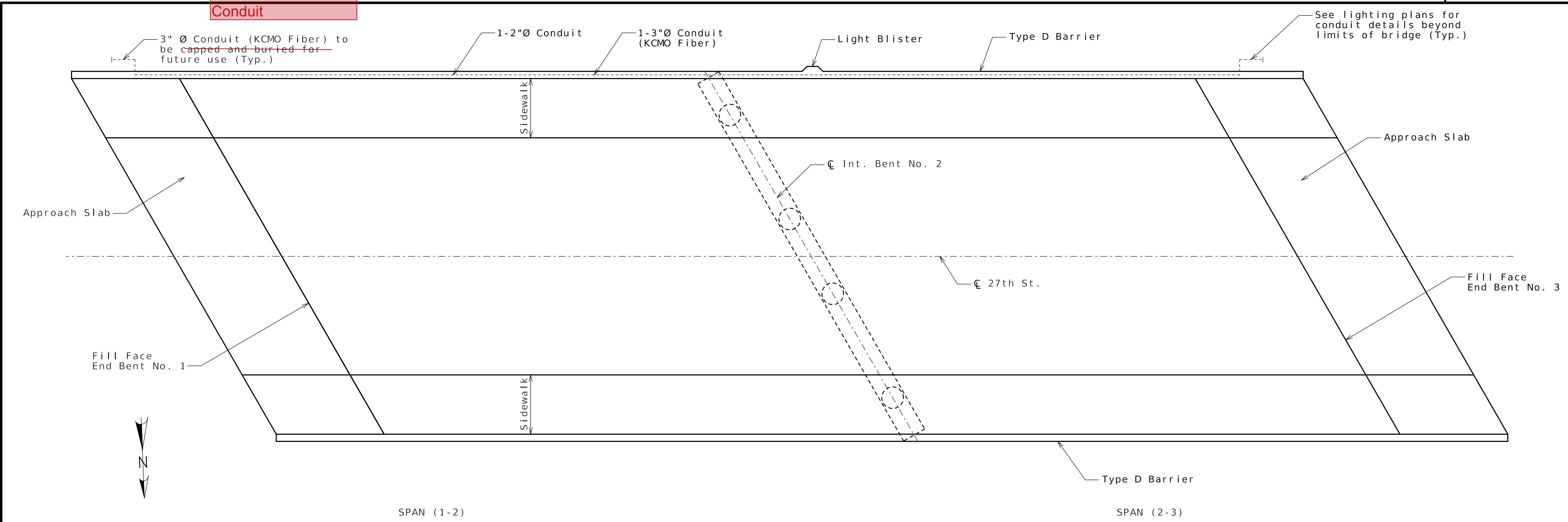


**SECTION A-A**

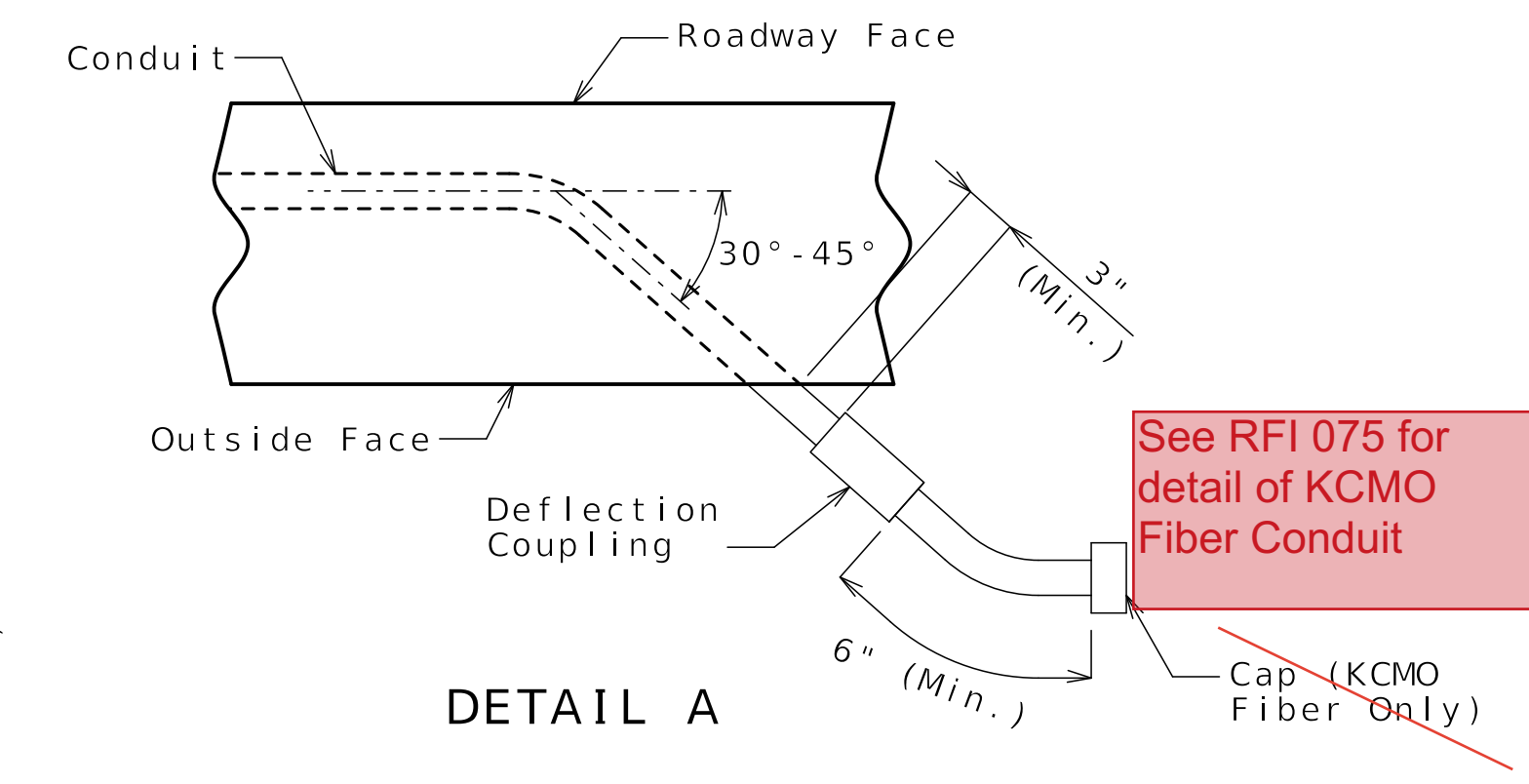
**Released For Construction**  
Not to Scale  
Revision: 0.0  
Date: 07/07/2025  
Package: BRD-11-27th St.

**FORM LINER AND AESTHETIC STAIN DETAILS**

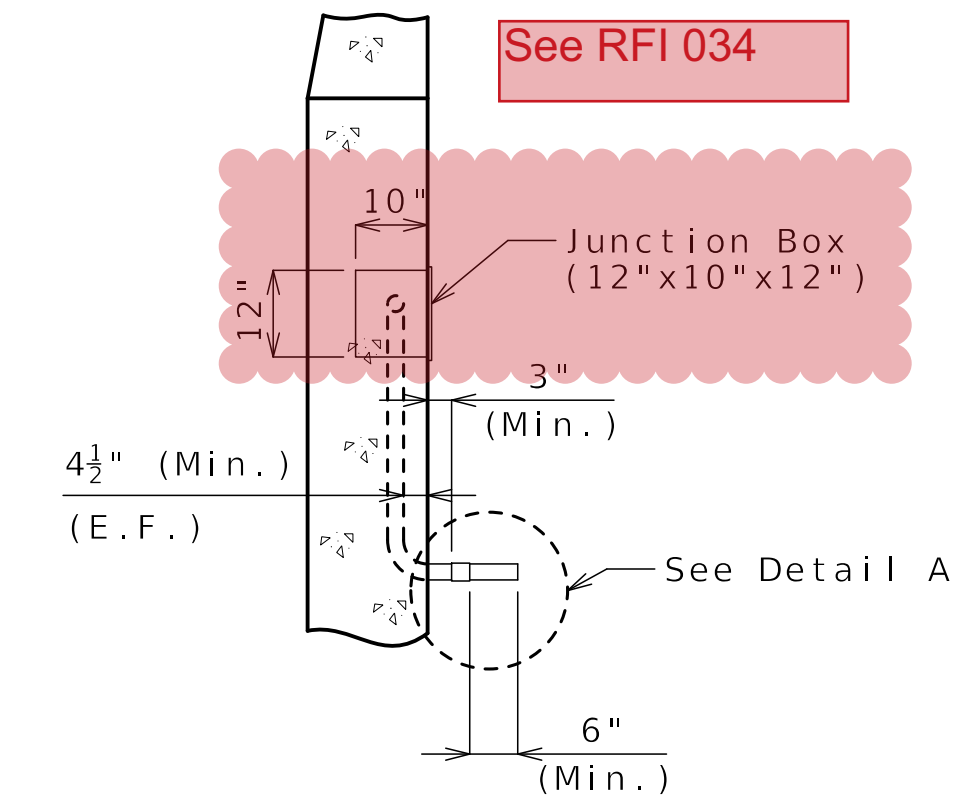
See RFI 075 for detail of KCMO Fiber Conduit



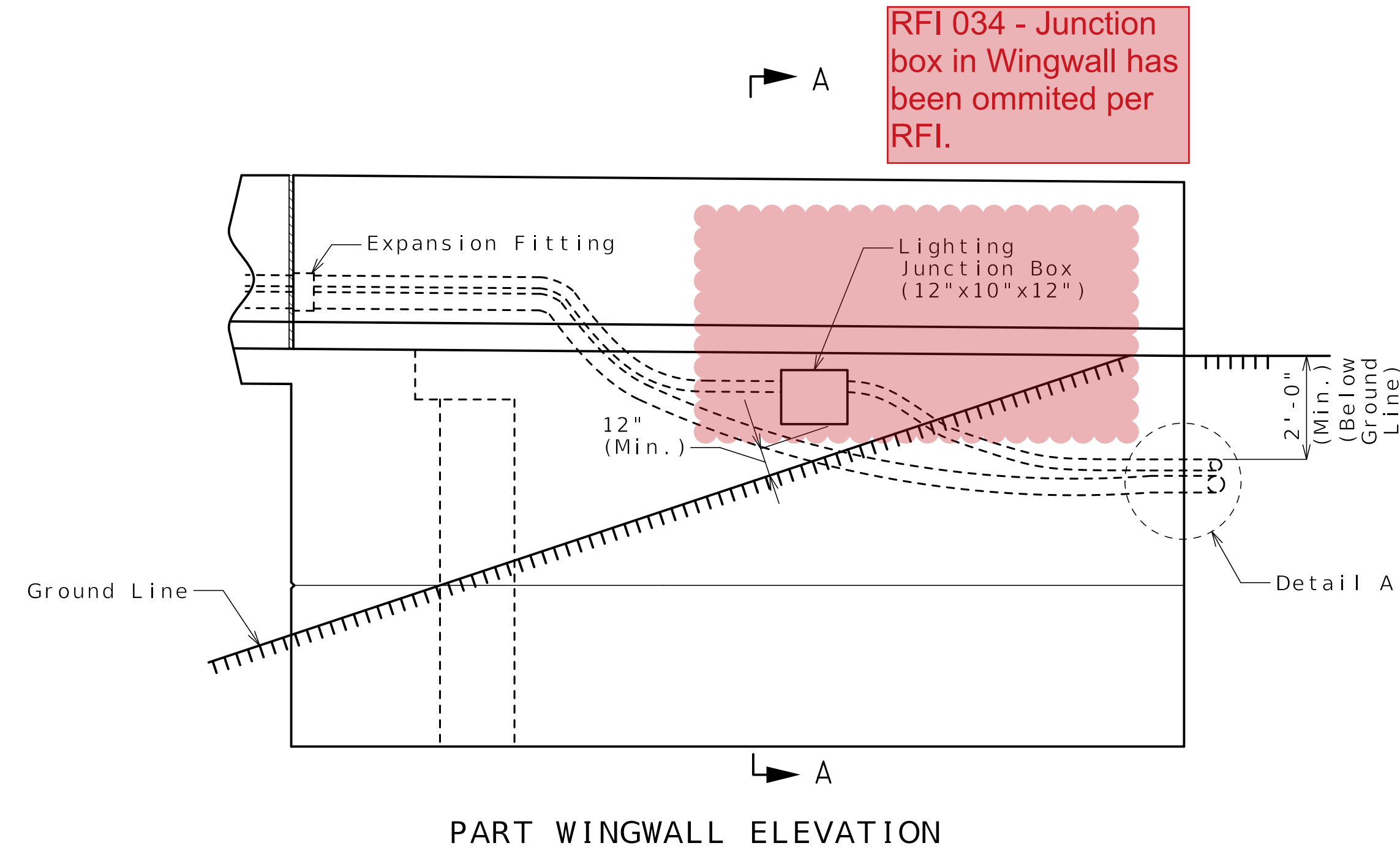
PLAN OF CONDUIT SYSTEM



DETAIL A



PART SECTION A-A



PART WINGWALL ELEVATION

**Notes:**  
 All conduit shall be rigid non-metallic schedule 40 heavy wall PVC (polyvinyl chloride plastic) with 3 1/2" minimum cover in barrier and 4 1/2" minimum cover in wingwall. Each section of conduit shall bear the Underwriters laboratories (UL) label.  
 Shift reinforcing steel in field where necessary to clear conduit and junction boxes.  
 Expansion fittings shall be placed as shown and set in accordance with the manufacturer's requirements and based on the air temperature at the time of setting given an estimated total movement of 1 inch at filled joints using a maximum temperature range of 120°F and a maximum temperature of 110°F.  
 Minimum clearance preferred between conduits placed in barrier shall be 1".  
 All end bent junction boxes shall be PVC molded in accordance with Sec. 1062 and designed for flush mounting. The conduit terminations shall be permanent or separable. The terminations and covers shall be of watertight construction and shall meet requirements for NEMA 4X enclosure.  
 Drainage shall be provided at low points or other critical locations of all conduits and all junction boxes in accordance with Sec 707. All conduits shall be sloped to drain where possible.  
 For additional form liner details not shown, see Sheet No. B11-28.  
 Conduit for future fiber installation shall have minimum bend radius of 18".

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 Not to Scale  
 Revision: 0.0  
 Date: 07/07/2025  
 Package: BRD-11-27th St.

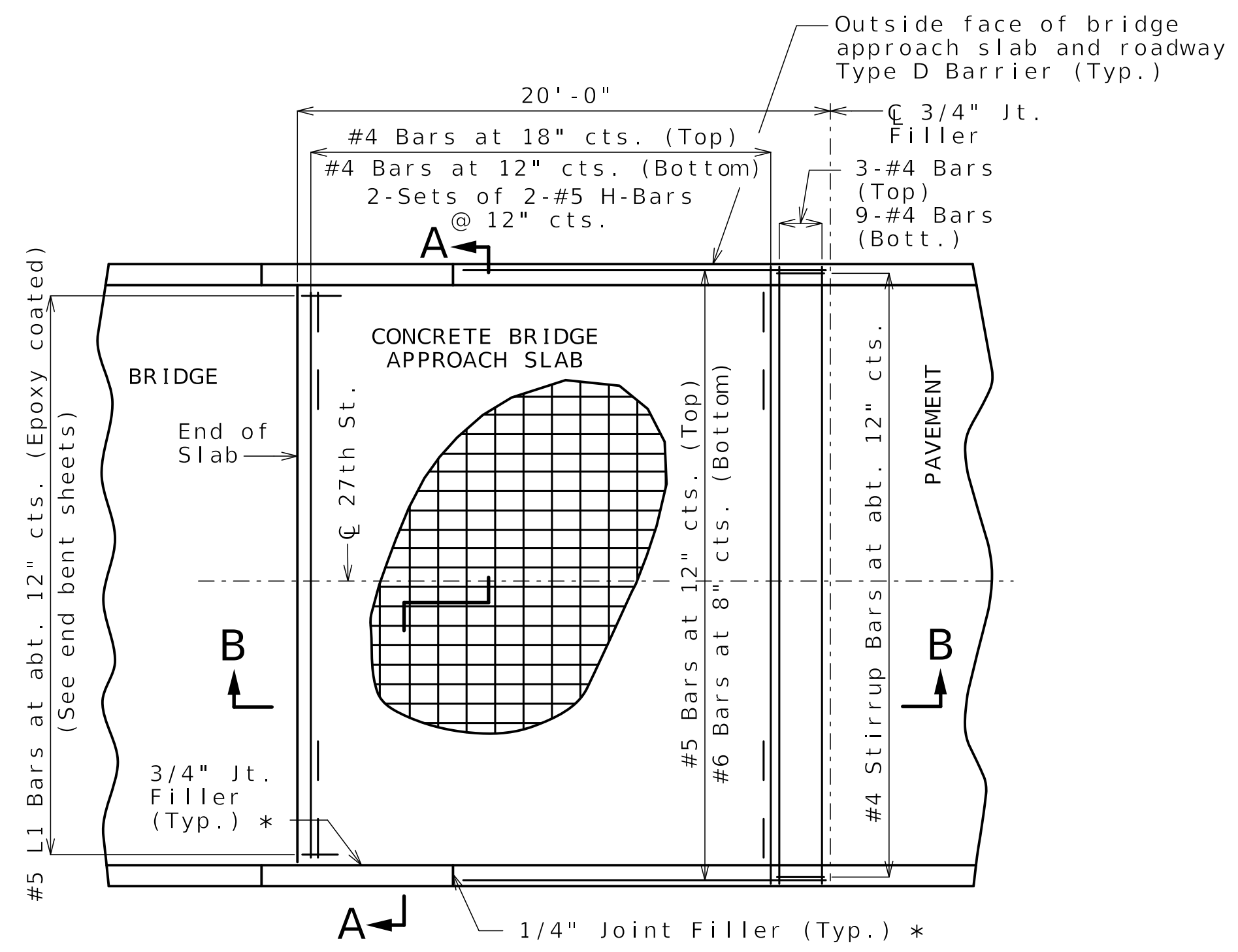
DETAILS OF CONDUIT SYSTEM ON STRUCTURE

**STATE OF MISSOURI**  
 BENJAMIN LICHTY  
 NUMBER PE-2023038803  
 PROFESSIONAL ENGINEER  
 07-02-2025  
 DATE PREPARED  
 06/25/2025  
 ROUTE 1-70 STATE MO  
 DISTRICT BR SHEET NO. B11-29  
 COUNTY JACKSON  
 JOB NO. J411486D  
 CONTRACT ID. 240807-C01  
 PROJECT NO.  
 BRIDGE NO. A9631

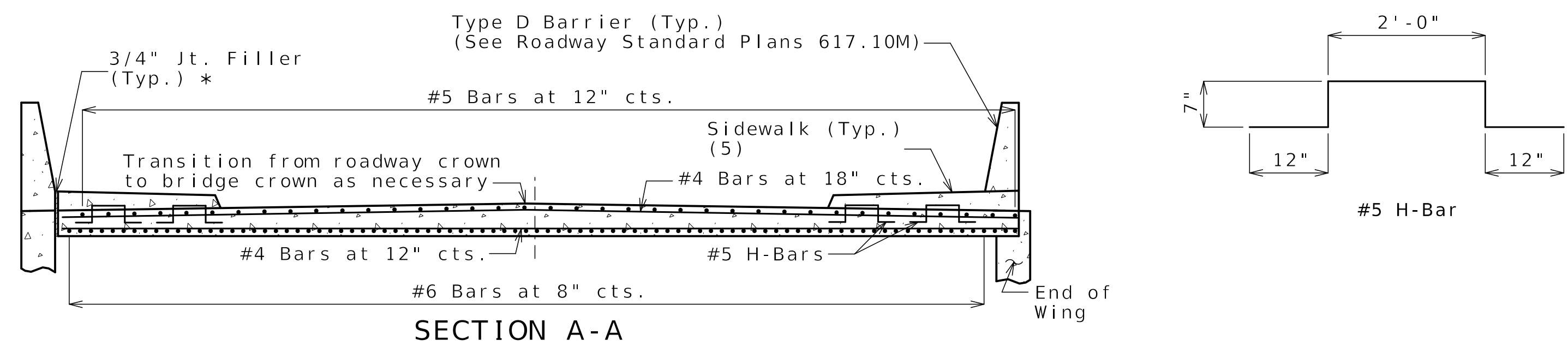
DATE	DESCRIPTION
06/25/25	REV 0 - RFC SUBMITTAL

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

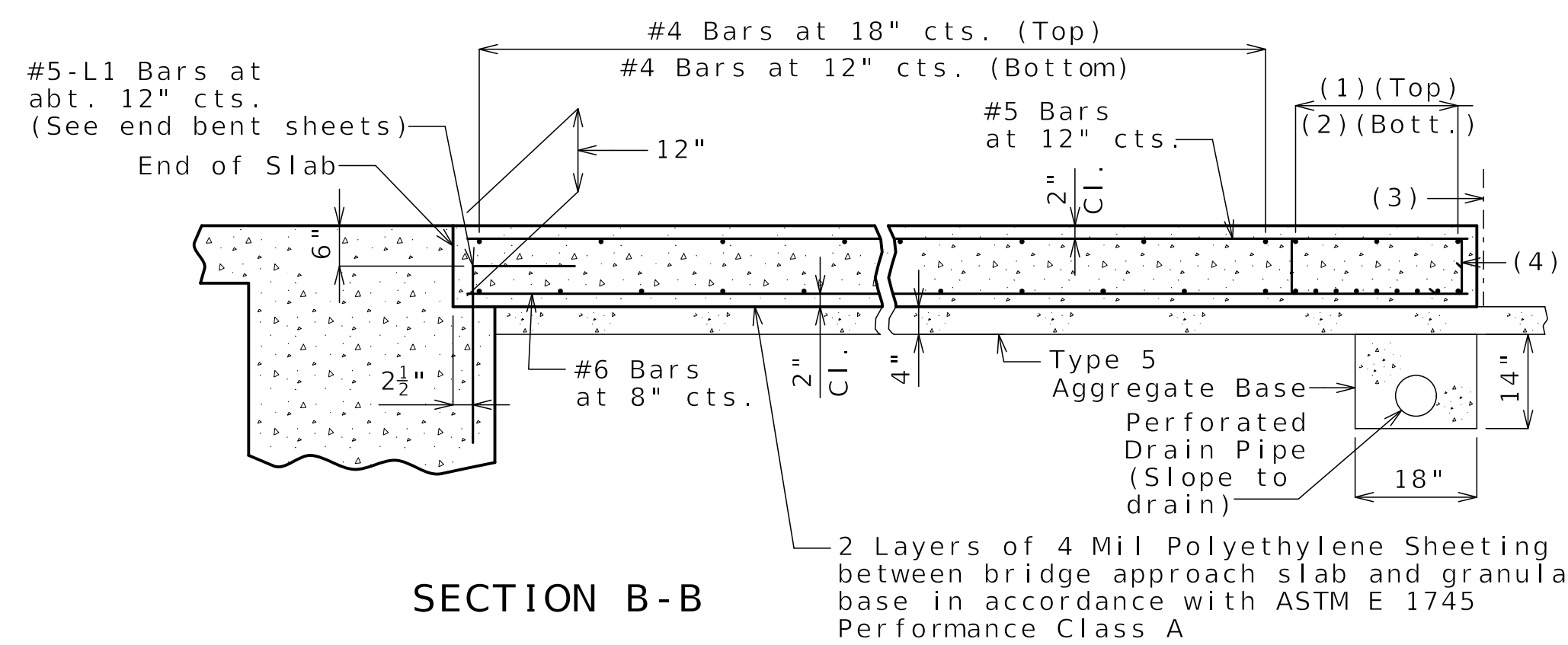
**CLARKSON RADMACHER** JOINT VENTURE  
 715 KIRK DRIVE KANSAS CITY, MO 64105-1310  
 CERTIFICATE OF AUTHORITY NO. 001270  
**HNTB**



**PART PLAN OF SQUARED STRUCTURE**  
(Skewed structure similar)  
(Sidewalk not shown)

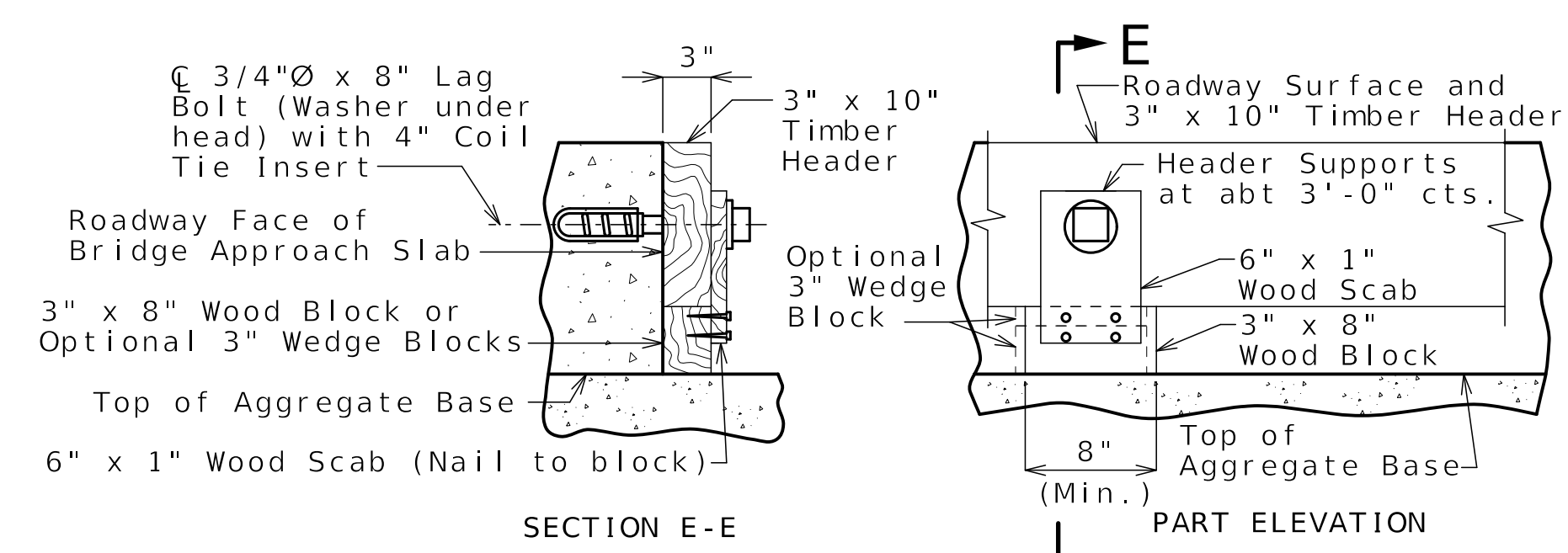


**SECTION A-A**



**SECTION B-B**

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



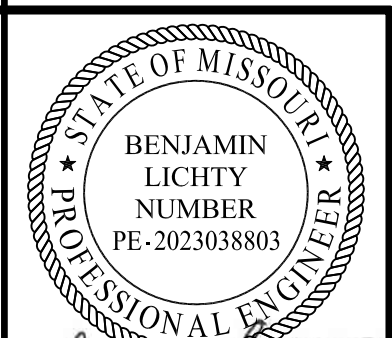
**DETAILS OF TIMBER HEADER**  
Remove timber header when concrete pavement is placed.

**Notes:**

- 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.
- Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.
- The reinforcing steel in the bridge approach slab shall be continuous. The transverse reinforcing steel may be made continuous by providing a minimum lap splice of 23 inches for #4 bars, or by mechanical bar splice.
- All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.
- 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.

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Revision: 0.0  
Date: 07/07/2025  
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**BRIDGE APPROACH SLAB (MINOR)**



Benjamin Lichty  
07-02-2025

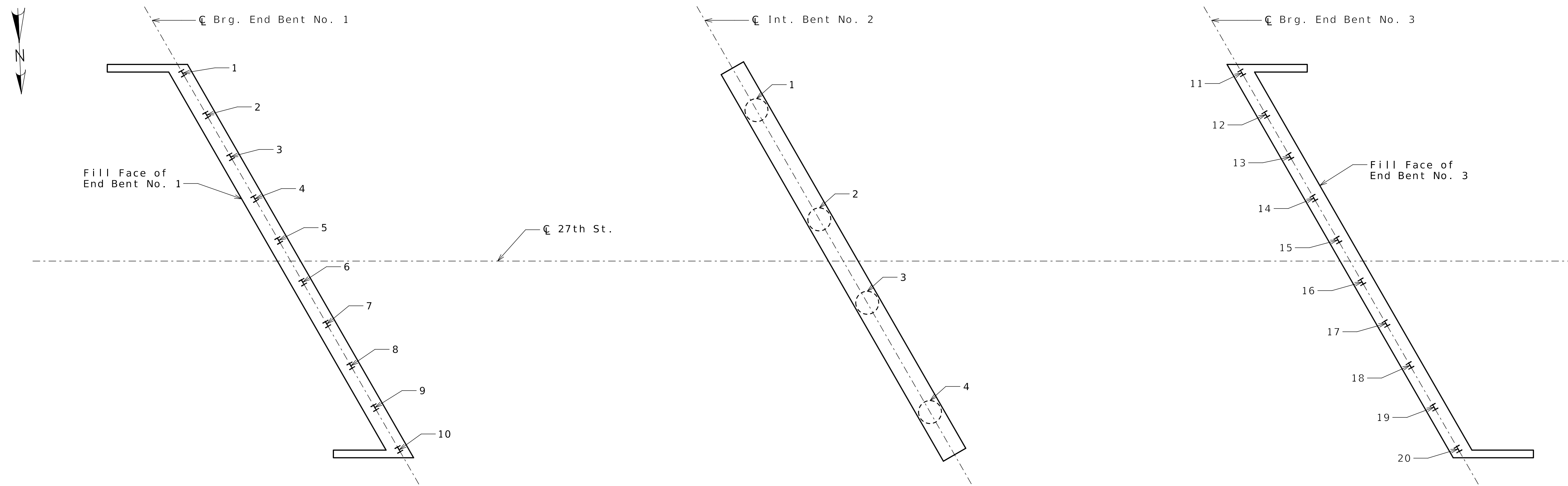
DATE PREPARED 06/25/2025	
ROUTE 1-70	STATE MO
DISTRICT BR	SHEET NO. B11-30
COUNTY JACKSON	
JOB NO. J411486D	
CONTRACT ID. 240807-C01	
PROJECT NO.	

BRIDGE NO.  
A9631

DATE	DESCRIPTION
06/25/25 <td>REV 0 - RFC SUBMITTAL</td>	REV 0 - RFC SUBMITTAL

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

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



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

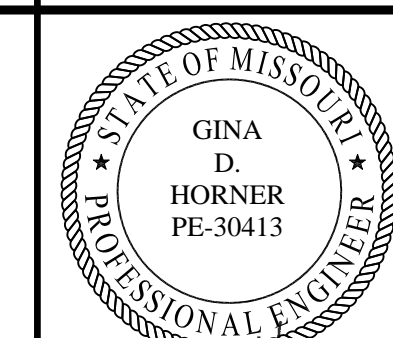
As-Built Pile Data			
Pile No.	Length in Place (ft)	Computed Nominal Axial Compressive Resistance (kips)	Remarks
			End Bent No. 1
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
			End Bent No. 3
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

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				

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

Note:  
This sheet to be completed by Design Builder.

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Not to Scale  
Revision: 0.0  
Date: 07/07/2025  
Package: BRD-11-27th St.



Gina D. Horner  
07/02/25

DATE PREPARED  
06/25/2025  
ROUTE 1-70 STATE MO  
DISTRICT BR SHEET NO. B11-31  
COUNTY JACKSON  
JOB NO. J411486D  
CONTRACT ID. 240807-C01  
PROJECT NO.

BRIDGE NO. A9631

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

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









**SOIL BORING NUMBER: 27St\_B3\_2**

Page 2 of 2

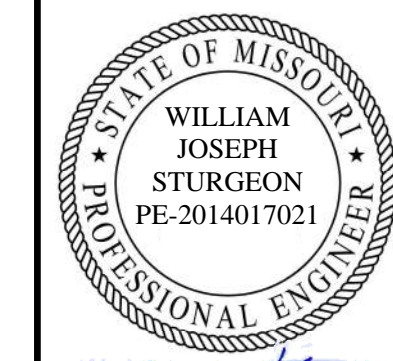
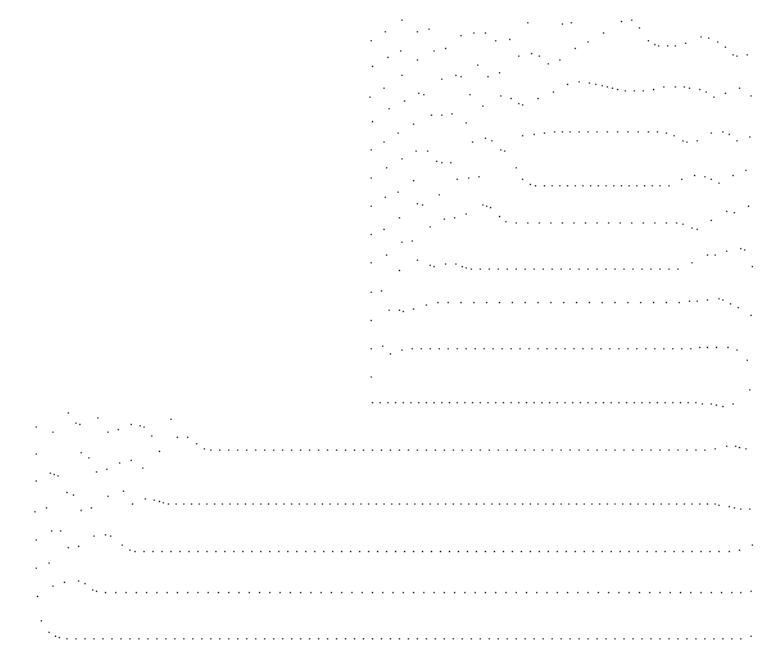
PROJECT Improve I 70 KC Design Build      NORTHING/EASTING 1059628.2 / 2778630.2  
 DRILLING FIRM PPI      DRILLER Ray A.      DATE STARTED 01/28/2025  
 LOGGED BY Cameron Dupont      DATE COMPLETED 01/28/2025  
 SURFACE ELEVATION 920.2'      RIG TYPE CME-55LC  
 METHOD Auger, Water Rotary, NQ Core      TOOLING 3-3/4" Tricone, 1-1/2" AWJ

Depth (ft)	Depth of Sample	Sample Type	Sample ID	Recovery Length (in)	Blow Counts (N-Value)	% Recovery	RQD (%)	Pocket Pen (tsf)	Graphic Log	Groundwater Data		Lab			
										During Drilling (ft):	N/A	Atterberg Limits (LL-PL-Pi)	Moisture Content (%)	Dry Density (PCF)	UCS (tsf)
40			C-6	60		100							7.3	139.5	50
40.4											879.8				
45															
50															
55															
60															
65															
70															

Shale, thinly bedded, weathered, dark gray, hard

Bottom of Boring at 40.4'

Boring backfilled with cuttings 1/28/2025



*W. Joseph Sturgeon*  
7/2/2025

DATE PREPARED 06/25/2025	
ROUTE 1-70	STATE MO
DISTRICT BR	SHEET NO. B11-35
COUNTY JACKSON	
JOB NO. J411486D	
CONTRACT ID. 240807-C01	
PROJECT NO.	

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

CLARKSON RADMACHER JOINT VENTURE

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



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Revision: 0.0  
Date: 07/07/2025  
Package: BRD-11-27th St.

Notes:  
For locations of borings, see Sheet No. B11-02 and Geotechnical Report.

**BORING LOGS**