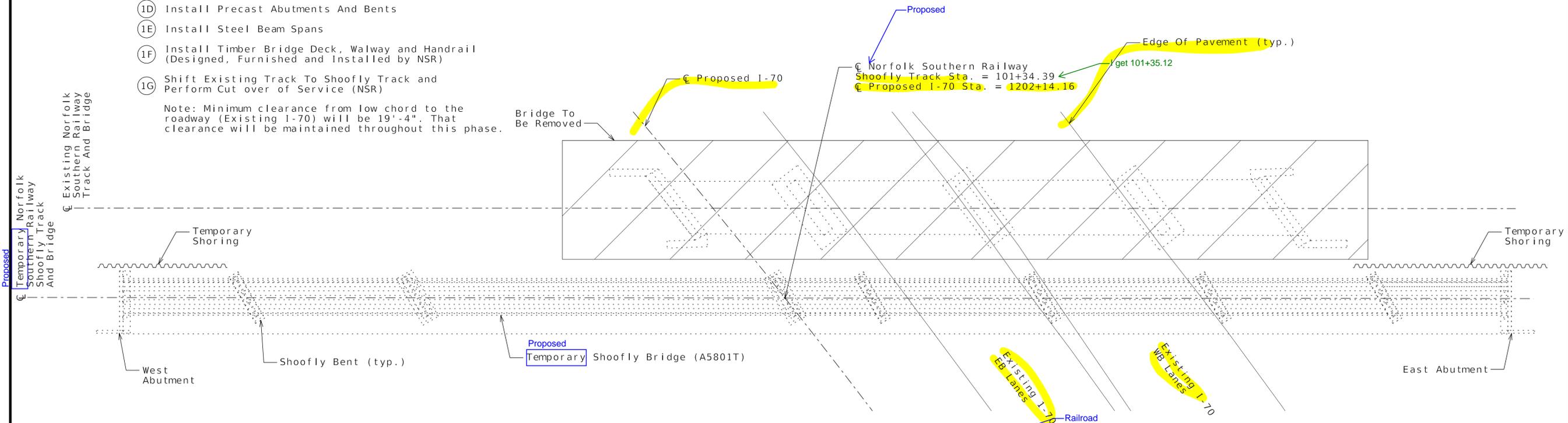


**Phase 1: Construct Shoofly Bridge (Offline) (NSRR And Roadway (I-70) To Match Existing)**

- 1A Drill/Drive Steel HP Piles Per Foundation Plan
- 1B Install Temporary Shoring To Support Existing Mainline Track During Shoofly Construction.
- 1C Install Drilled Shafts, Concrete Columns, And Concrete Cap
- 1D Install Precast Abutments And Bents
- 1E Install Steel Beam Spans
- 1F Install Timber Bridge Deck, Walway and Handrail (Designed, Furnished and Installed by NSR)
- 1G Shift Existing Track To Shoofly Track and Perform Cut over of Service (NSR)

Note: Minimum clearance from low chord to the roadway (Existing I-70) will be 19'-4". That clearance will be maintained throughout this phase.



**Phase 2: Remove Existing Norfolk Southern Structure**

- 2A Coordinate With Roadway Plans On Sequence Of Lane Closures For Removing Existing Mainline Track & Bridge

Note: Minimum clearance from low chord to the roadway (Existing I-70) will be 19'-4". That clearance will be maintained throughout this phase.

DATE PREPARED 7/22/2025	
ROUTE I-70	STATE MO
DISTRICT BR	SHEET NO. A5801T-5
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A5801T	

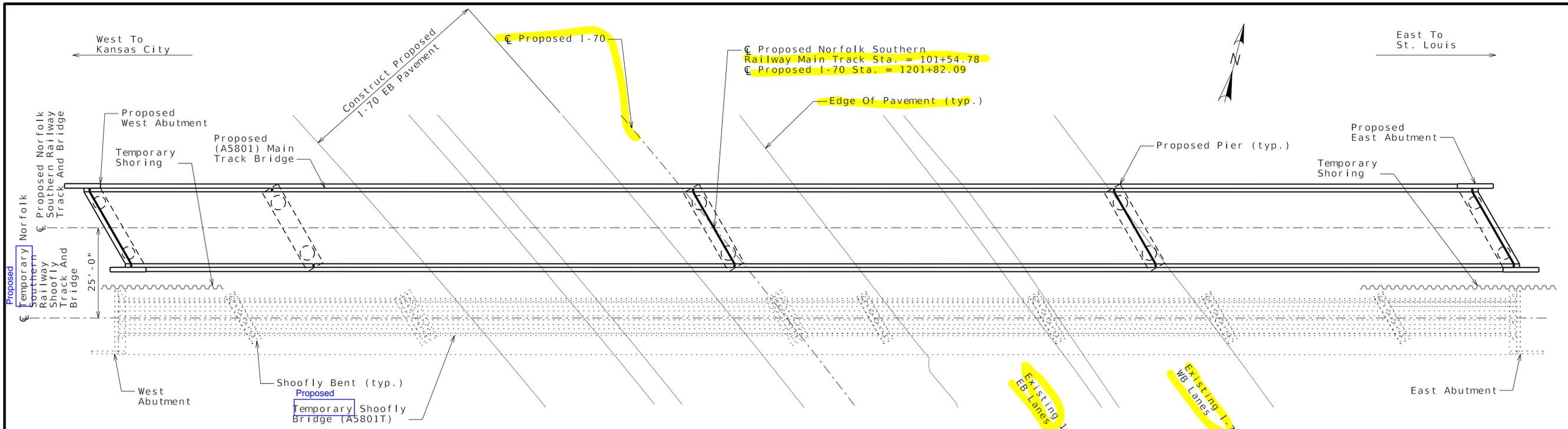
DESCRIPTION	DATE

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

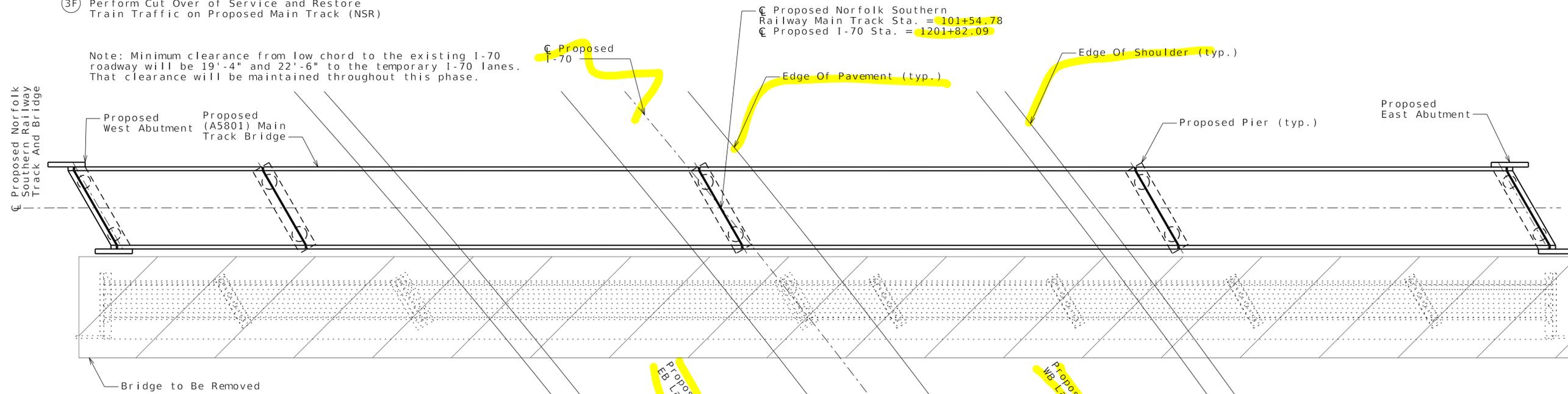
Bartlett & West  
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PHONE 872-630-3161  
FAX 872-630-3162  
WWW.BARTLETTWEST.COM



**PHASE 3: CONSTRUCT PROPOSED MAIN TRACK NORFOLK SOUTHERN BRIDGE**

- 3A Install Drilled Shafts
- 3B Construct Concrete Abutments And Caps
- 3C Install Steel Girders For Superstructure
- 3D Construct CIP Concrete Deck
- 3E Construct Proposed Maintrack (NSR)
- 3F Perform Cut Over of Service and Restore Train Traffic on Proposed Main Track (NSR)

Note: Minimum clearance from low chord to the existing I-70 roadway will be 19'-4" and 22'-6" to the temporary I-70 lanes. That clearance will be maintained throughout this phase.



**Phase 4: Remove Shoofly Bridge**

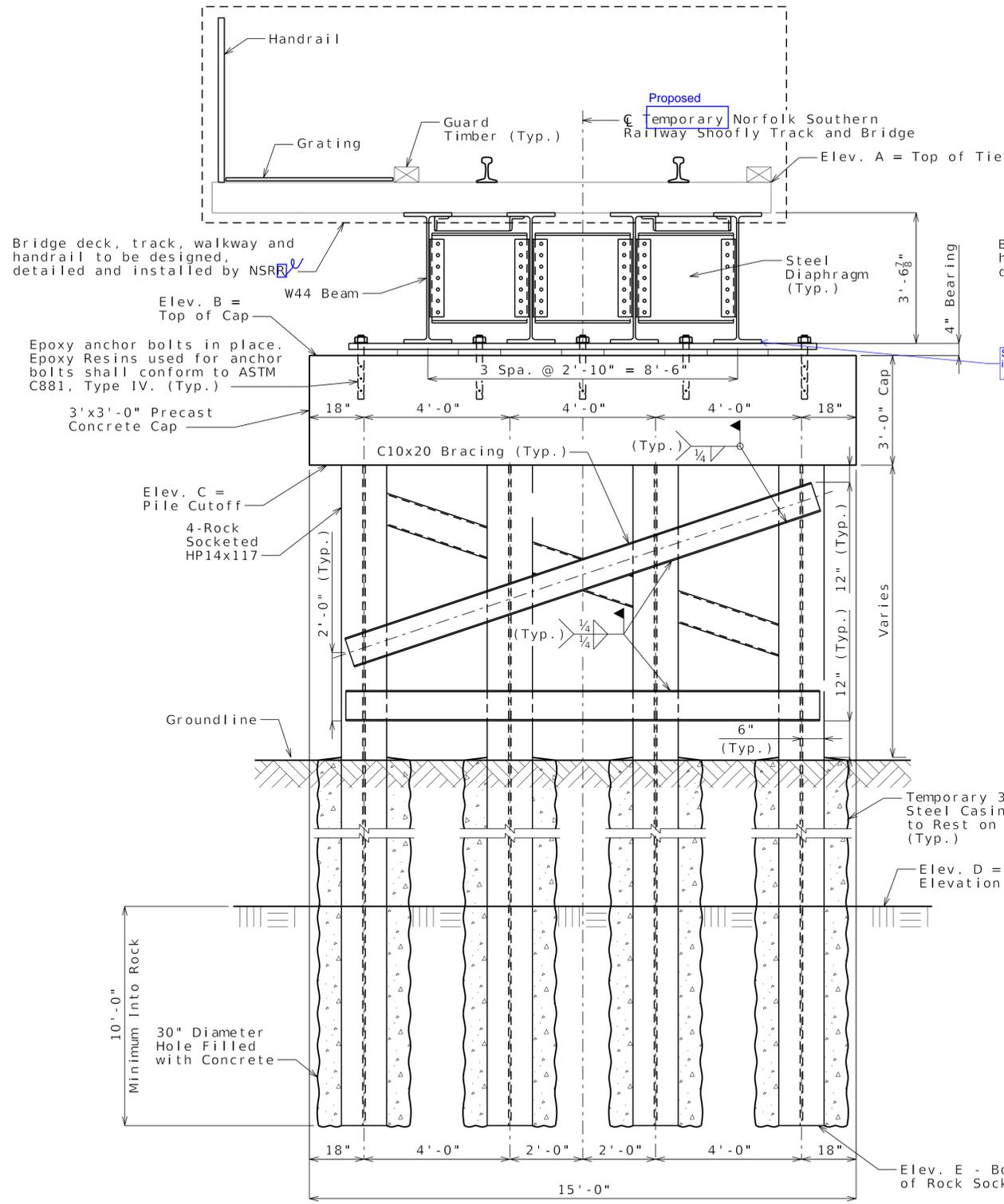
- 4A Remove Temporary Shoofly Bridge

Note: Minimum clearance from low chord to the proposed I-70 EB will be 22'-4". That clearance will be maintained throughout this phase. No vehicle traffic will be on proposed I-70 WB during this phase.

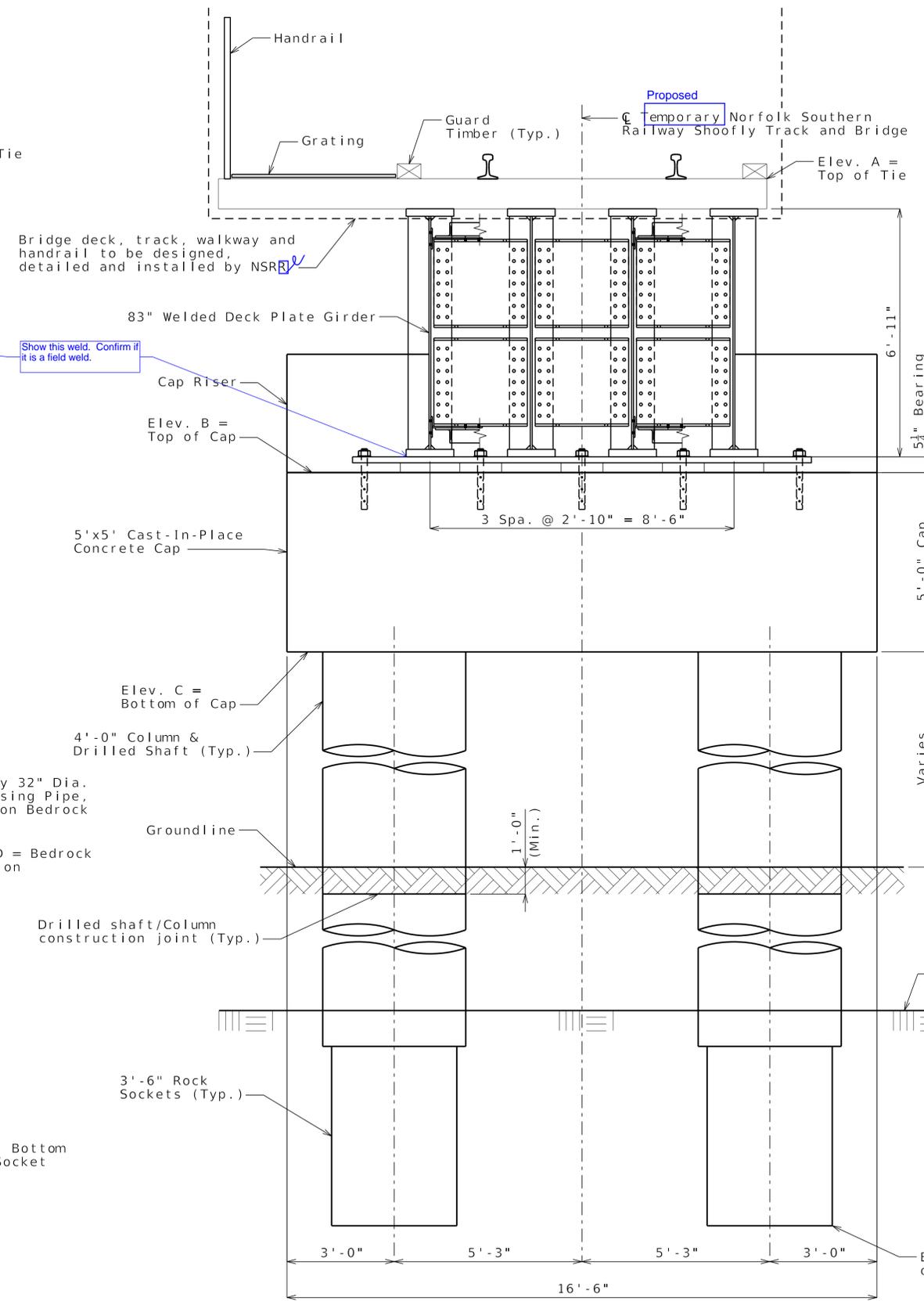
**Not For Construction**

DESCRIPTION	DATE PREPARED	7/22/2025
	ROUTE	I-70
	STATE	MO
	DISTRICT	BR
	SHEET NO.	A5801T-6
	COUNTY	ST. CHARLES
	JOB NO.	JST0020
	CONTRACT ID.	
	PROJECT NO.	
	BRIDGE NO.	A5801T
DATE		
DATE		
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	601 HONDOS ST., SUITE 201 - JEFFERSON CITY, MO 65101 PHONE 872-630-3181 CERTIFICATE OF AUTHORITY NO. 001270	





SECTION A-A



SECTION B-B

NOTES:

For location of Section A-A and B-B, see Sheet No. A5801T-7

For substructure elevations and Socketed Pile Detail, see Sheet No. A5801T-10

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

Sheet 8 of 27

Not For Construction  
TYPICAL SECTION (1 OF 2)

DATE PREPARED 7/22/2025	
ROUTE I-70	STATE MO
DISTRICT BR	SHEET NO. A5801T-8

COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	

PROJECT NO.	
BRIDGE NO. A5801T	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

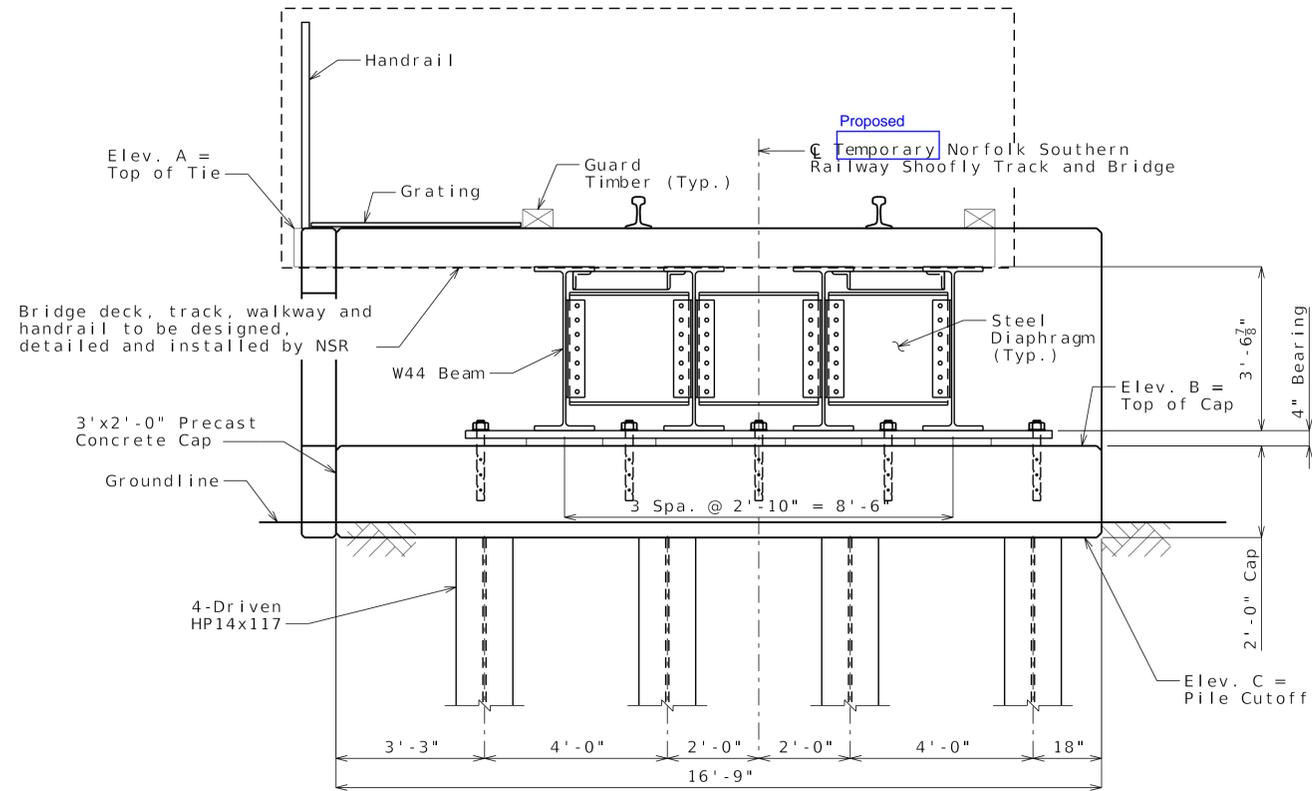
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

IMPROVE 70 ALLIANCE

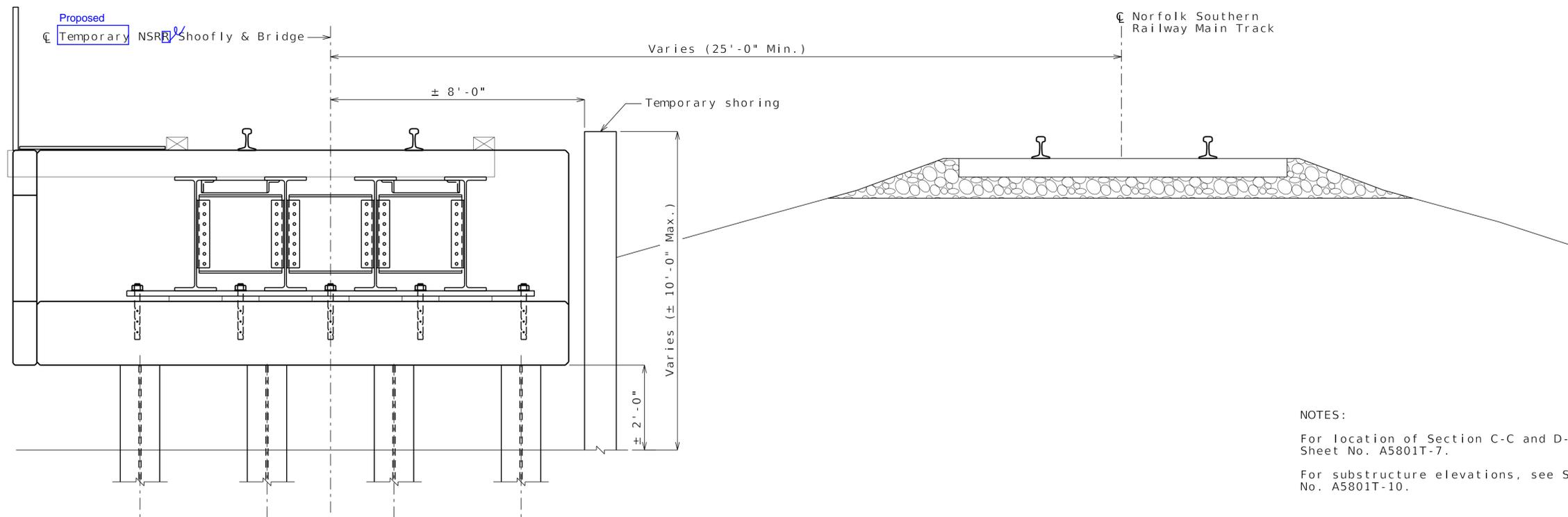
715 KIRK DRIVE  
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CERTIFICATE OF AUTHORITY  
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SECTION C-C



SECTION D-D

NOTES:

For location of Section C-C and D-D, see Sheet No. A5801T-7.

For substructure elevations, see Sheet No. A5801T-10.

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

Sheet 9 of 27

DATE PREPARED 7/22/2025	
ROUTE I - 70	STATE MO
DISTRICT BR	SHEET NO. A5801T-9
COUNTY ST. CHARLES	
JOB NO. JST0021	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A5801T	

DATE	DESCRIPTION

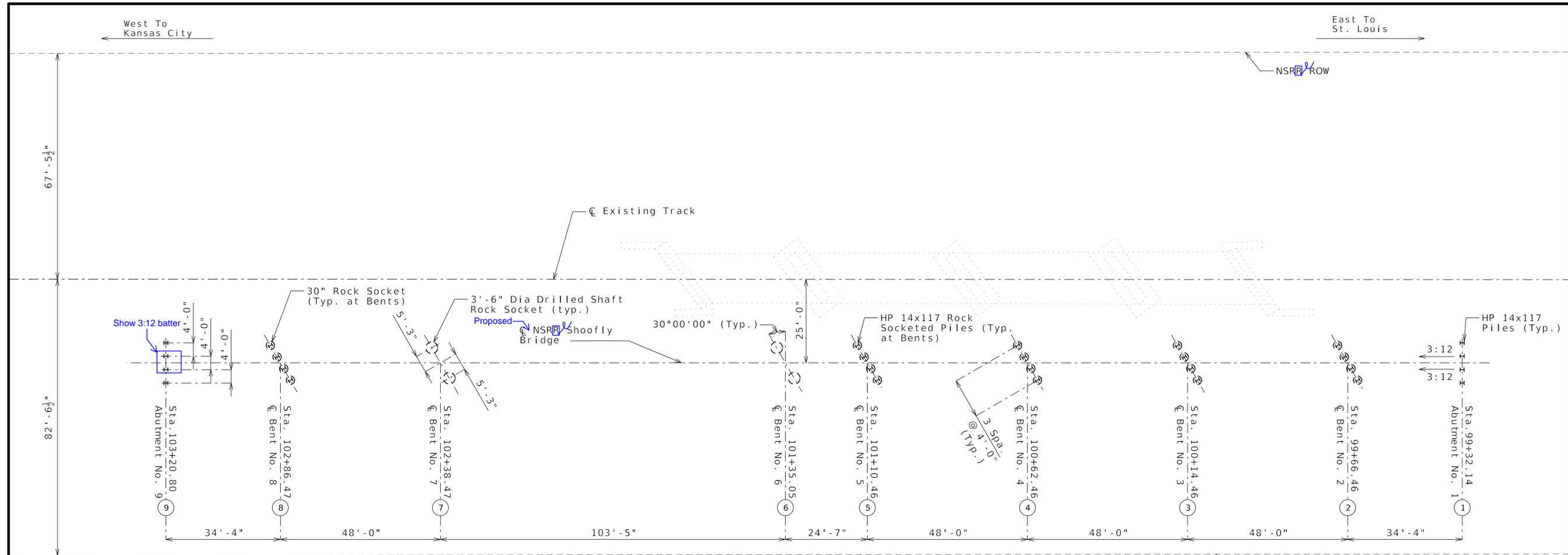
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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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

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DATE PREPARED 7/22/2025	
ROUTE I-70	STATE MO
DISTRICT BR	SHEET NO. A5801T-10
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A5801T	
DESCRIPTION	
DATE	

**Driven Pile Notes:**  
insert table:

Bent Number	Axial Design Load per Pile (kips)	Required Ultimate Bearing Capacity per Pile (kips), FS=2.25	Estimated Pile Tip Elevation
Abutment 1			
Abutment 2			

insert notes...a version of the examples provided to the left.

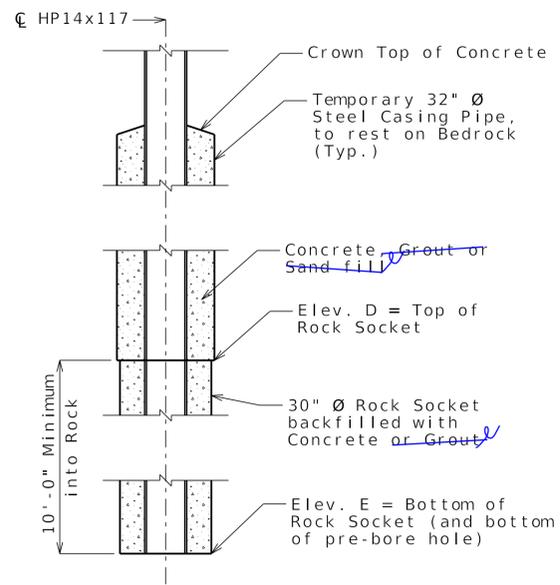
**FOUNDATION PLAN**

CONTRACTOR SHALL SUBMIT... MUST BE APPROVED BY... SUBSTRUCTURE SHALL BE... THE EXISTING SUBSTRUCTURE IS...  
 MATED PILE TIP, CONTRACTOR...  
 ING OF APF HARD-BITE  
 APACITY WITHOUT DAMAGE. PILES...  
 PILE, FINAL PILE TIP ELEVATION...  
 NG ON TEST PILES AT EACH  
 00-02 FOR ADDITIONAL PILING  
 R AND ABUTMENT TO CONFIRM...  
 OR PRODUCTION PILES. PRODUCTION...  
 E FINAL...  
 THE INITIAL ADVANCEMENT OF THE

**Pile Socket Notes:**

- The Socket Concrete Shall be class 40 With a Slump of 6" to 9". F'c = 4,000 at 28 Days.
- The Concrete Shall be Prevented From Hitting the Sides of the Hole or the Steel Pile by Directing the Pour Through a Hopper or Using the Tremie Method.
- No Concrete Shall be Placed by Freefall Methods in Standing Water Greater Than 3" Depth.
- The Concrete Shall be Pumped or Placed with a Tremie if Ground Water Cannot be Adequately Controlled, or if Concrete Cannot be Directed Vertically Down the Shaft. The Bottom of the Tremie Shall be kept Initially as Near as Possible to the Bottom of the Shaft and Always at least 5' Below the Top of the Column of Concrete.
- Crown the Top of Socket Concrete to Provide 1" Wash Away from Steel H-Pile. *present in*
- Any Loose Material Which Seeps into the Drilled Sockets Must be Removed Prior to Placement of Piles and Concrete such that no more than 1/2" Remains. The H-Piles must be Clean and Free of Dirt and Loose Rust.
- The Drilled Socket Shall be Filled with Concrete Within 4 Hours of Completing the Socket Excavation.
- Symbol X:12 Denotes direction and amount of Pile batter.

Verify bottom of socket is in sound limestone.  
 Seat pile using a 5-foot drop.



**SOCKETED PILE DETAIL**

**TABLE OF ELEVATIONS**

Bent No.	Station	T/R	Elevations					Rock Socket Length (ft)
			A	B	C	D	E	
1	99+32.14	645.65	644.99	640.25	638.25	605.50	-	
2	99+66.47	645.69	645.02	640.28	637.28	604.60	594.60	
3	100+14.47	645.74	645.08	640.34	637.67	604.60	594.60	
4	100+62.47	645.80	645.13	640.39	637.39	605.80	595.80	
5	101+10.47	645.85	645.18	640.44	637.44	606.60	596.60	
6	101+35.05	645.88	645.21	637.02	632.02	607.80	587.80	
7	102+38.47	645.99	645.32	637.13	632.13	606.90	586.90	
8	102+86.47	646.04	645.38	640.64	637.97	606.00	596.00	
9	103+20.80	646.08	645.41	640.67	638.67	605.00	-	

**Drilled Shaft Notes:**

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

- Verify that socket extends through and terminates in sound limestone. *project Drilled Shaft Construction AAS*
- ROCK SOCKET CLEANOUT SHALL BE VERIFIED USING A VIDEO SHAFT INSPECTION DEVICE SUPPLIED AND OPERATED BY THE CONTRACTOR. SEE PROJECT MANUAL FOR DETAILS. *MODOT Std Specs??*
- PROVIDE SONIC NON-DESTRUCTIVE INTEGRITY TESTING, CONSISTING OF CROSS-HOLE SONIC LOGGING (CSL) MEASUREMENTS, FOR EACH COMPLETED DRILLED SHAFT AND ROCK SOCKET, FOR ALL ACCESS TUBE COMBINATIONS. SEE PROJECT MANUAL FOR ACCESS TUBE AND TESTING REQUIREMENTS. *MODOT Std Specs??*

Not For Construction FOUNDATION PLAN

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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MoDOT

IMF

KIRK DRIVE  
 SAS CITY, MO 64105-1310  
 CERTIFICATE OF AUTHORITY  
 001270

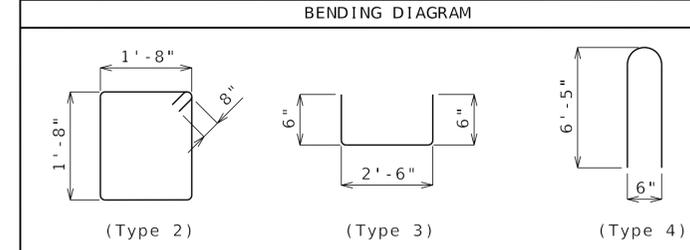
West

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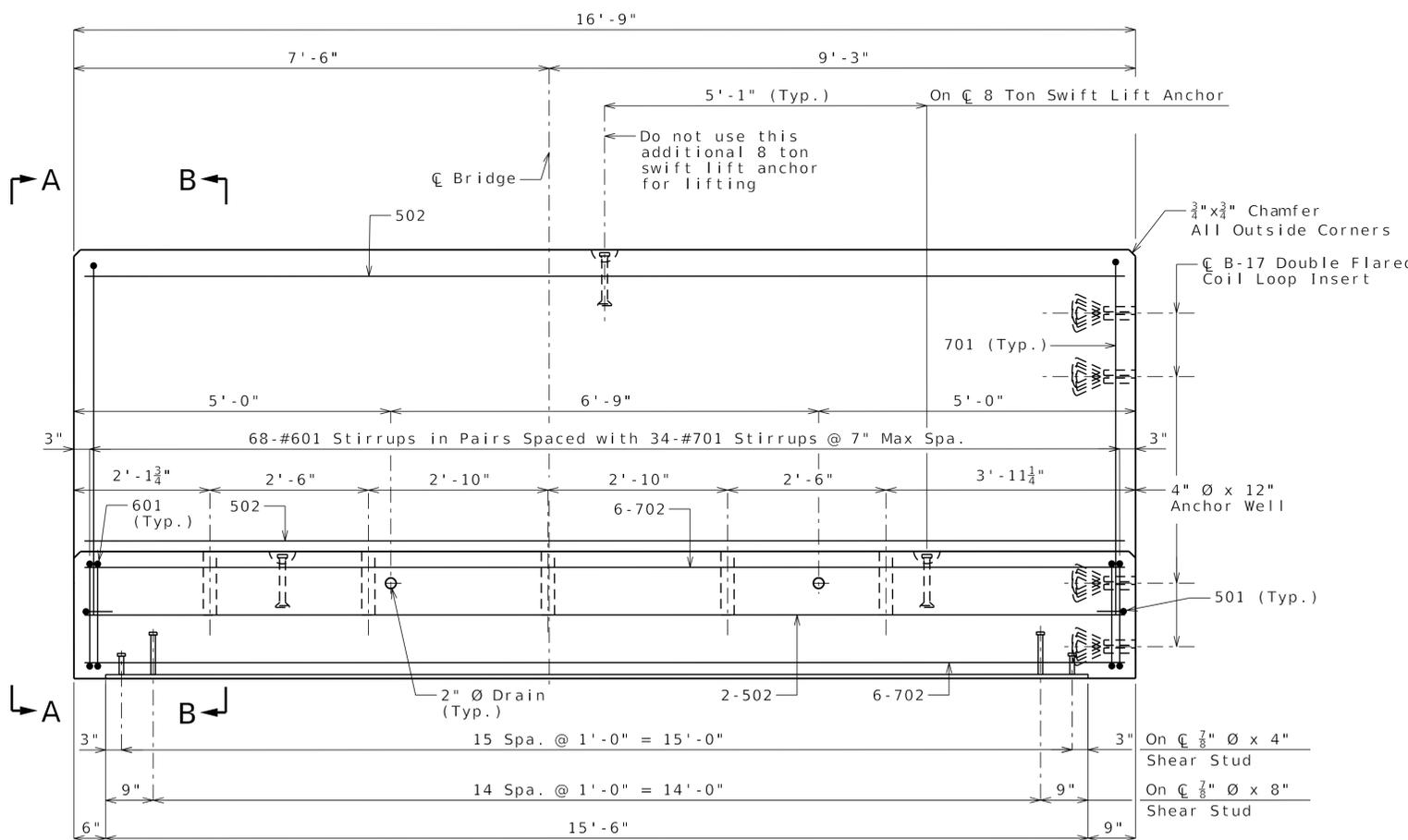
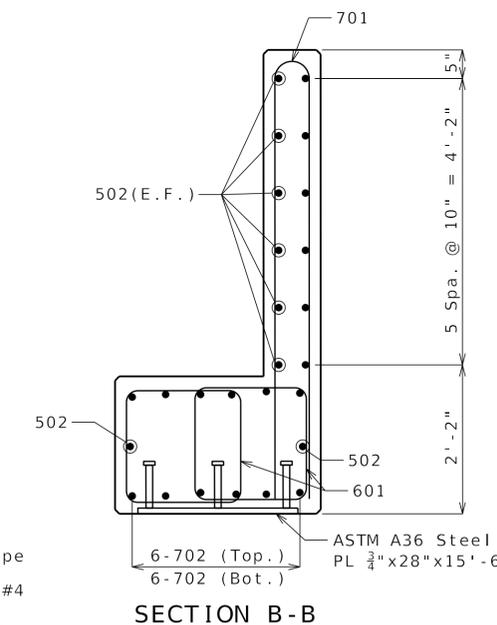
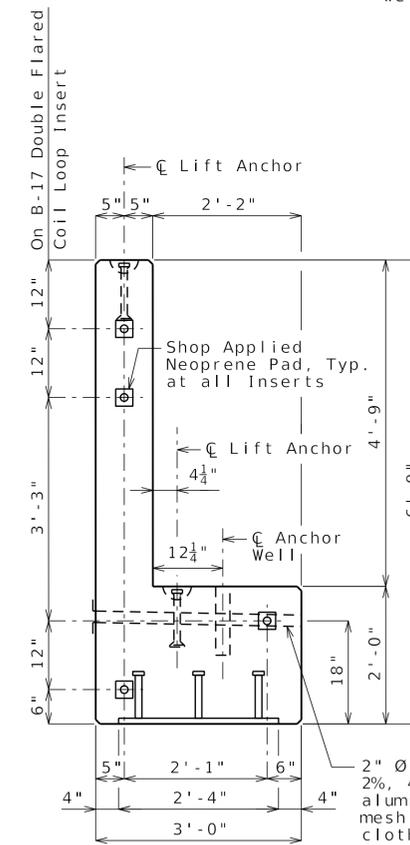
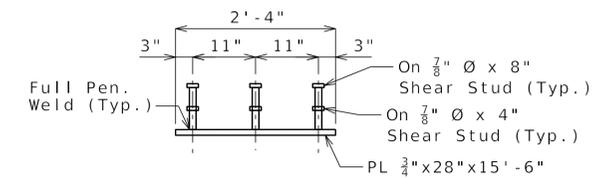
HNT

Bartlett

REINFORCING STEEL SCHEDULE PRECAST ABUTMENT CAP							
MARK	BAR NO.	NO. REQ.	LENGTH		TYPE	LOCATION	WEIGHT (LBS.)
			FT	IN.			
501	5	2	3	8	3	End Bar	8
502	5	14	16	5	STR.	Horizontal	240
601	6	68	8	0	2	Shear Stirrups	818
701	7	34	13	4	4	Vertical	927
702	7	12	16	5	STR.	Horizontal	403



\* Quantities are per abutment cap (2 total required)



**PRECAST ABUTMENT CAP**  
 (Abutment 1 shown, Abutment 9 opposite hand)  
 All bars not shown for clarity.

Note:  
 For swift lift anchor details see Sheet A5801T-12.

Not For Construction  
 ABUTMENT CAP DETAIL

DATE PREPARED 7/22/2025	
ROUTE I-70	STATE MO
DISTRICT BR	SHEET NO. A5801T-11
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	

PROJECT NO.	
BRIDGE NO. A5801T	

DESCRIPTION	DATE

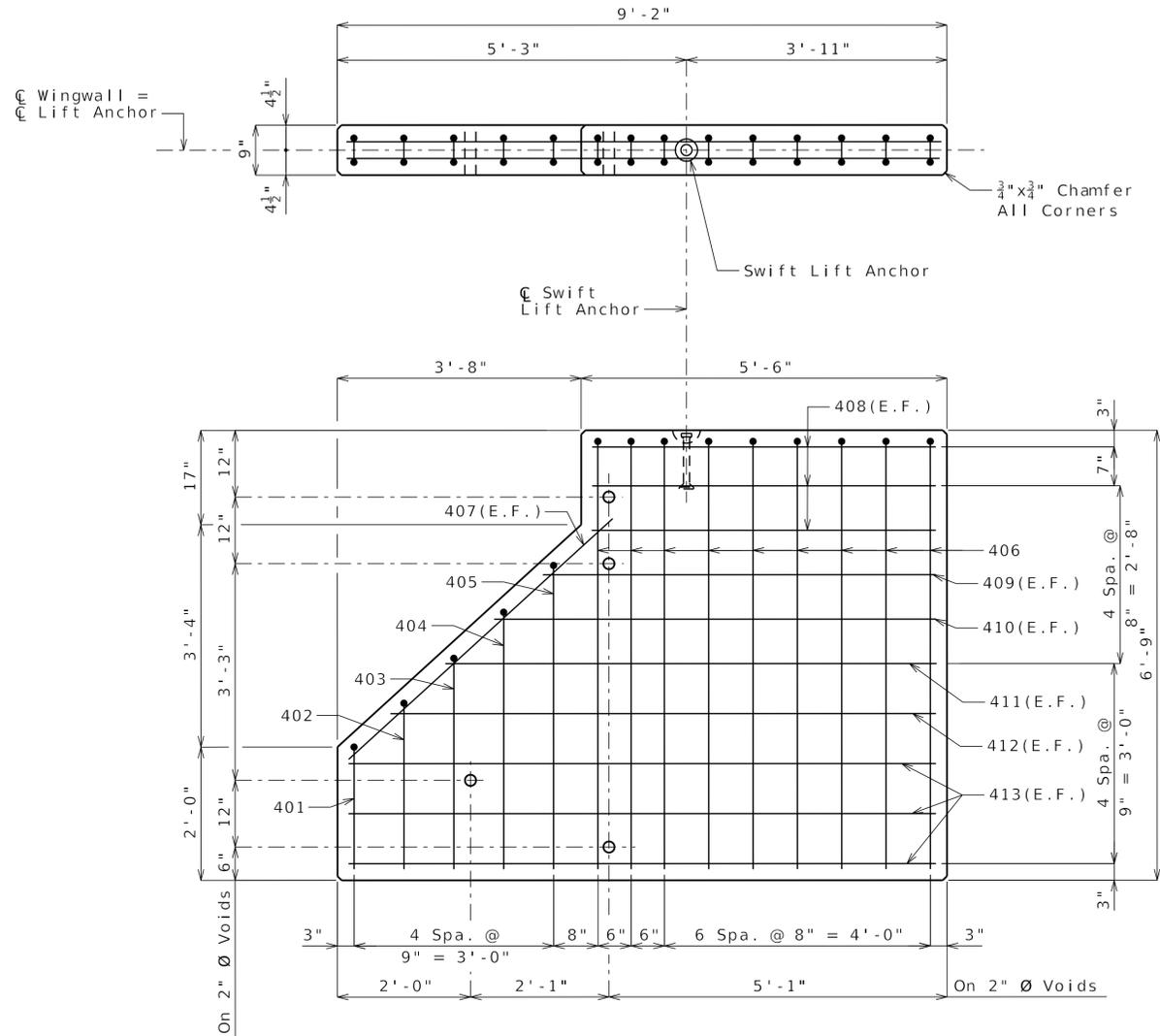
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
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IMPROVE 70 ALLIANCE

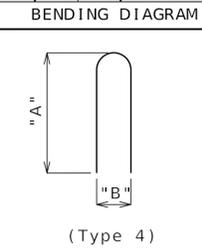
HNTB  
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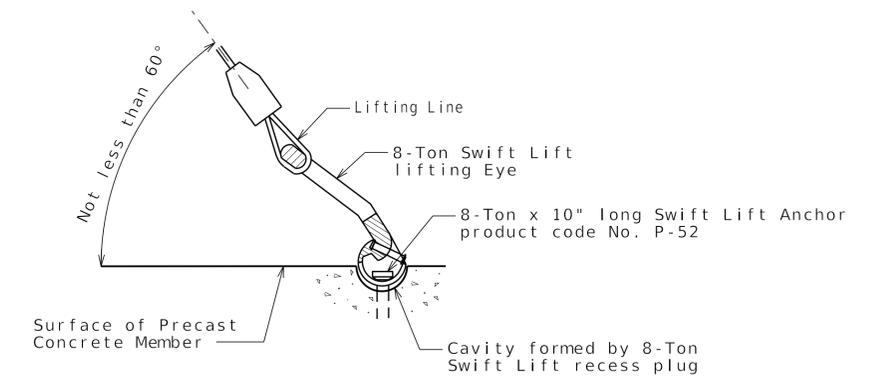


PRECAST WINGWALL  
(2 Required)

REINFORCING STEEL SCHEDULE PRECAST WINGWALL									
MARK	BAR NO.	NO. REQ.	A (IN)	B (IN)	LENGTH FT	IN.	TYPE	LOCATION	WEIGHT (LBS.)
401	4	1	22	5	4	1	4	Vertical	3
402	4	1	30	5	5	5	4	Vertical	4
403	4	1	38	5	6	9	4	Vertical	5
404	4	1	46	5	8	1	4	Vertical	5
405	4	1	54	5	9	5	4	Vertical	6
406	4	9	77	5	13	3	4	Vertical	80
407	4	2	-	-	5	2	STR.	Diagonal	7
408	4	6	-	-	5	2	STR.	Horizontal	21
409	4	2	-	-	5	11	STR.	Horizontal	8
410	4	2	-	-	6	8	STR.	Horizontal	9
411	4	2	-	-	7	4	STR.	Horizontal	10
412	4	2	-	-	8	2	STR.	Horizontal	11
413	4	6	-	-	8	10	STR.	Horizontal	35



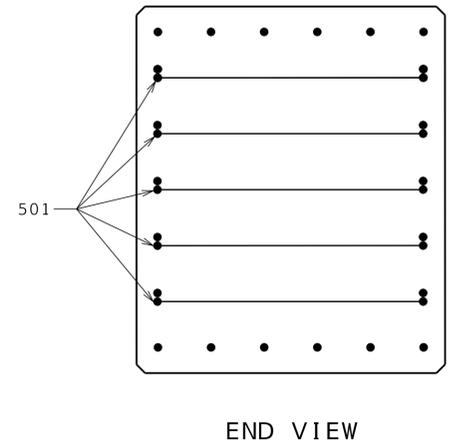
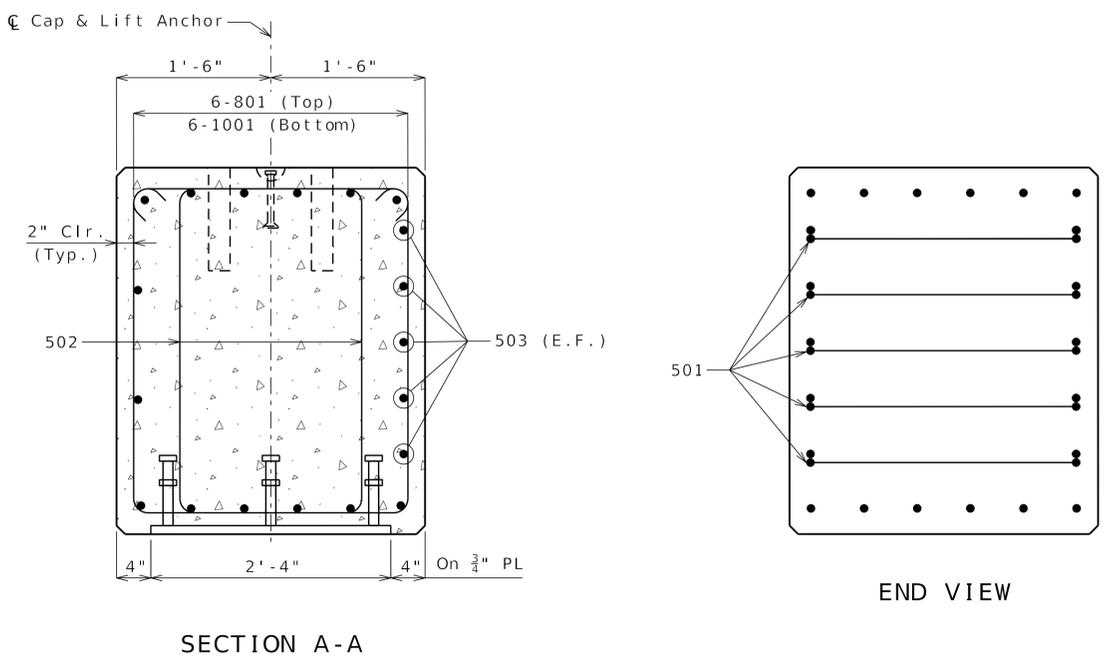
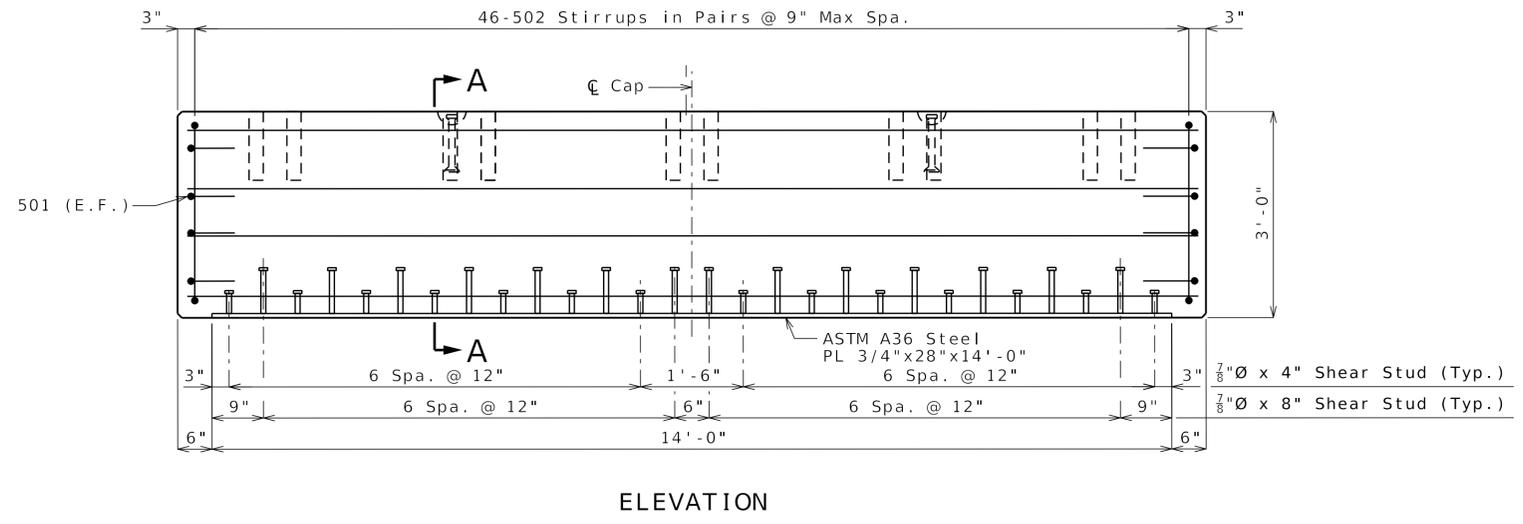
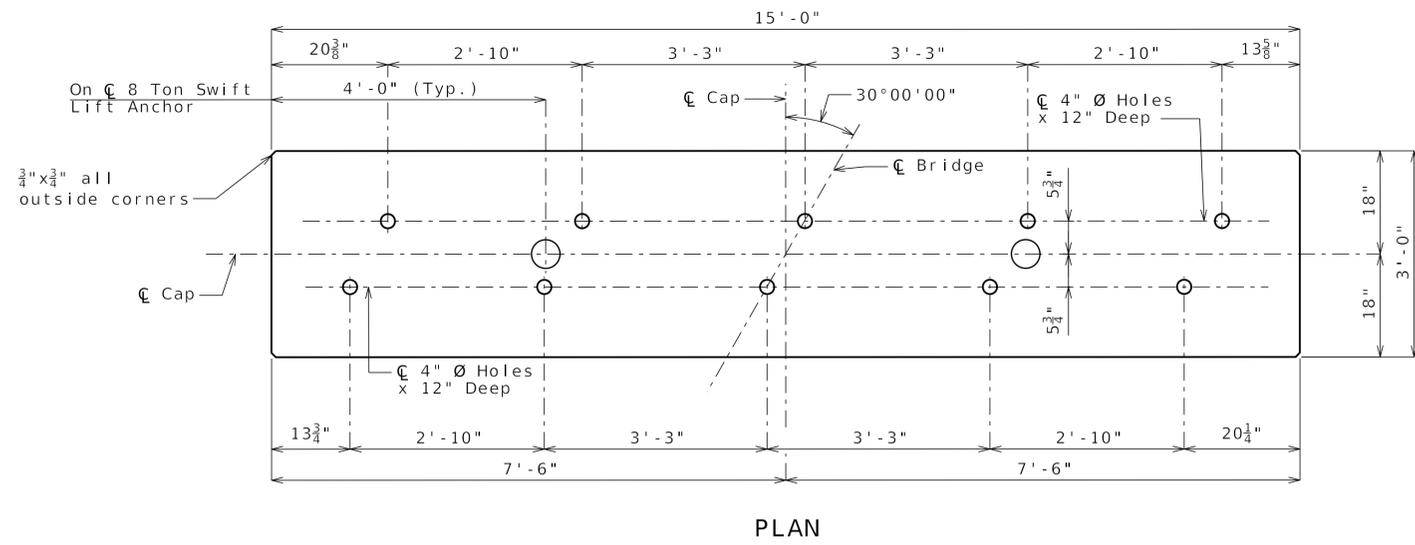
\* Quantities Per One Wingwall (2 Total Required).



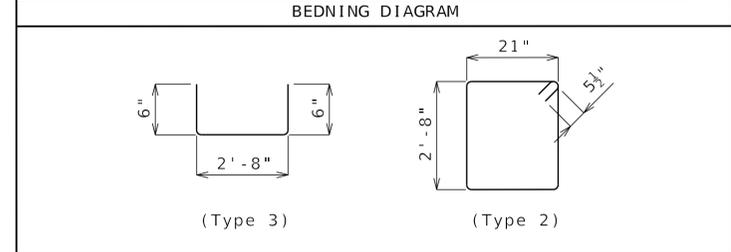
SWIFT LIFT DETAIL

8-Ton swift lift recess plugs, anchors and lifting. Eyes are available from Dayton Superior, 721 Richard St. Miamisburg, Ohio 45342, telephone (937) 866-0711.  
 Note: One (1) swift lift anchor required per wingwall.  
 Two (2) swift lift anchors required per pile bent cap.  
 Three (3) swift lift anchors required per abutment.

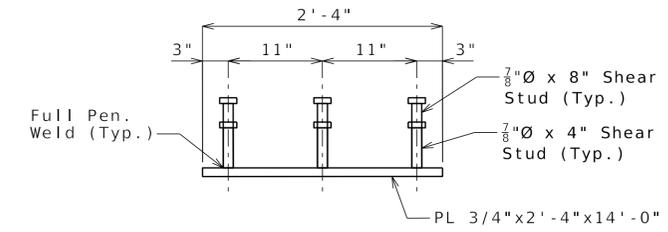
DATE PREPARED <b>7/22/2025</b>	
ROUTE <b>I - 70</b>	STATE <b>MO</b>
DISTRICT <b>BR</b>	SHEET NO. <b>A5801T-12</b>
COUNTY <b>ST. CHARLES</b>	
JOB NO. <b>JST0020</b>	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. <b>A5801T</b>	
DESCRIPTION	DATE
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	<p>105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)</p>
	<p>715 KIRK DRIVE KANSAS CITY, MO 64105-1310 CERTIFICATE OF AUTHORITY NO. 001270</p>
<p>601 MONROE ST., SUITE 201 - JEFFERSON CITY, MO 65101 PHONE 872-633181 WWW.BARTLETTWEST.COM</p>	<p>ENGINEERING CERTIFICATE OF AUTHORITY</p>



REINFORCING STEEL SCHEDULE PRECAST SINGLE BENT CAP							
MARK	BAR NO.	NO. REQ.	LENGTH		TYPE	LOCATION	WEIGHT (LBS.)
			FT	IN.			
501	5	10	3	8	3	End Bar	38
502	5	46	9	9	2	Shear Stirrups	468
503	5	10	14	8	STR.	Horizontal Side	153
801	8	10	14	8	STR.	Horizontal Top	235
1001	10	6	14	8	STR.	Horizontal Bottom	379



\* Quantities are per Intermediate bent cap (5 total required)



Notes:  
For swift lift anchor details see Sheet A5801T-012.

DATE PREPARED 7/22/2025	
ROUTE I-70	STATE MO
DISTRICT BR	SHEET NO. A5801T-13
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A5801T	

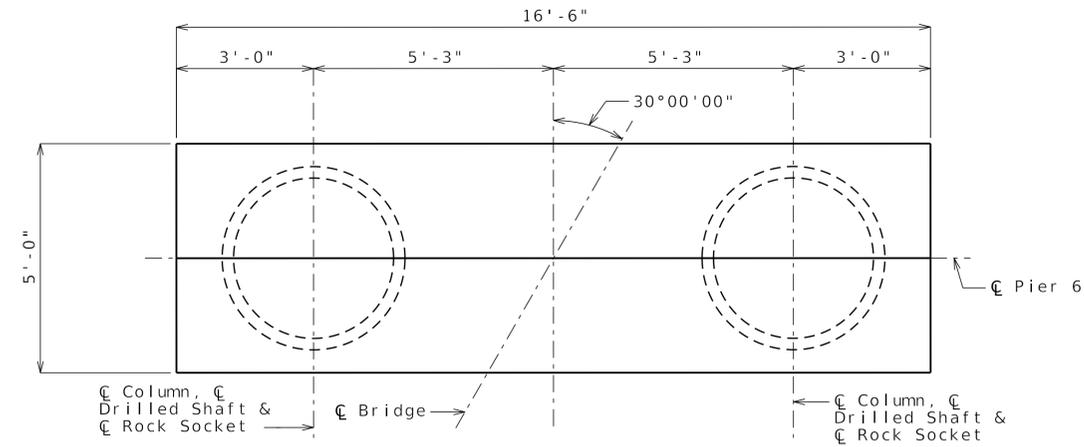
DATE	DESCRIPTION

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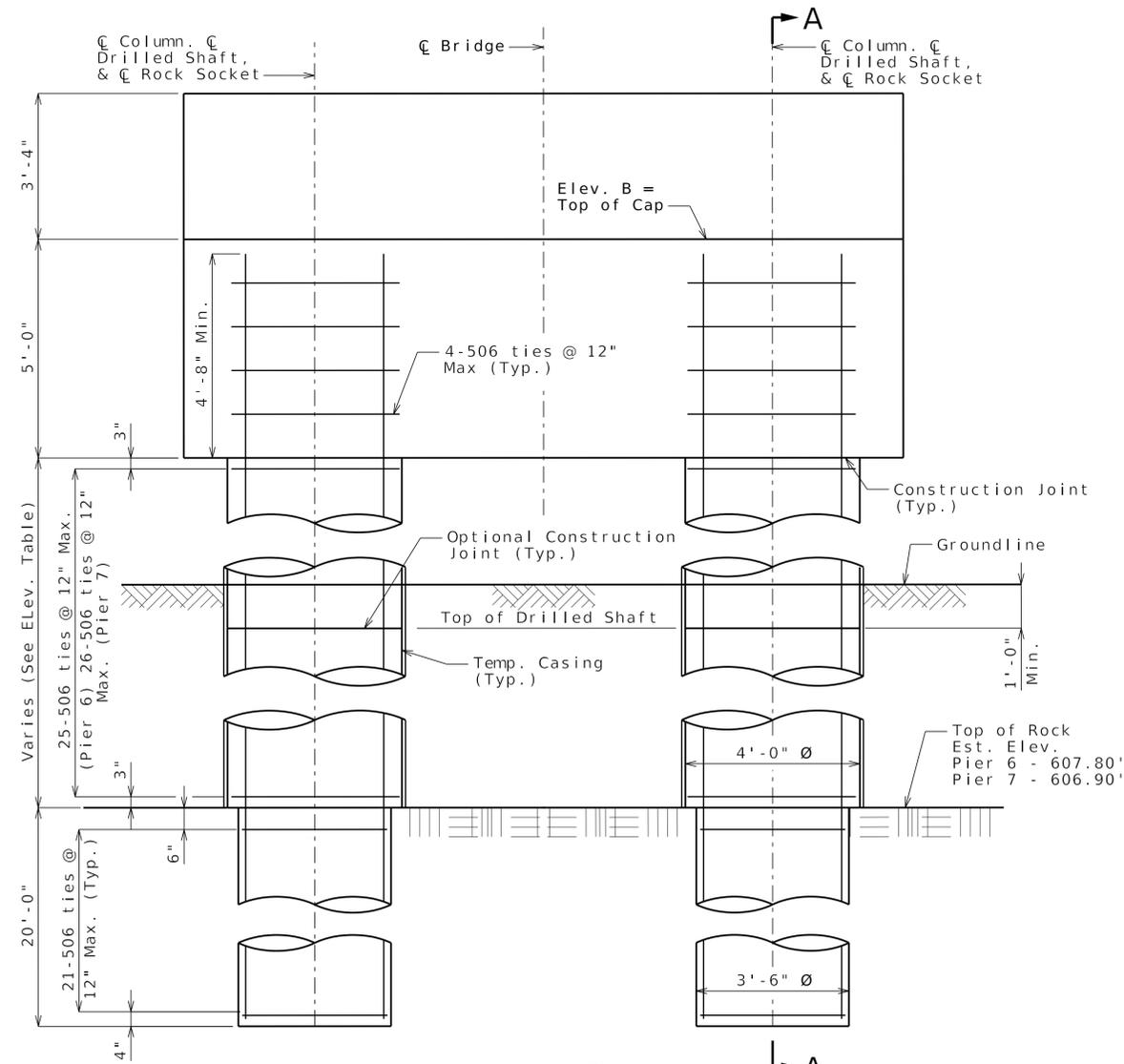
105 WEST CAPITOL JEFFERSON CITY, MO 65102  
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KANSAS CITY, MO 64105-1310  
CERTIFICATE OF AUTHORITY  
NO. 001270

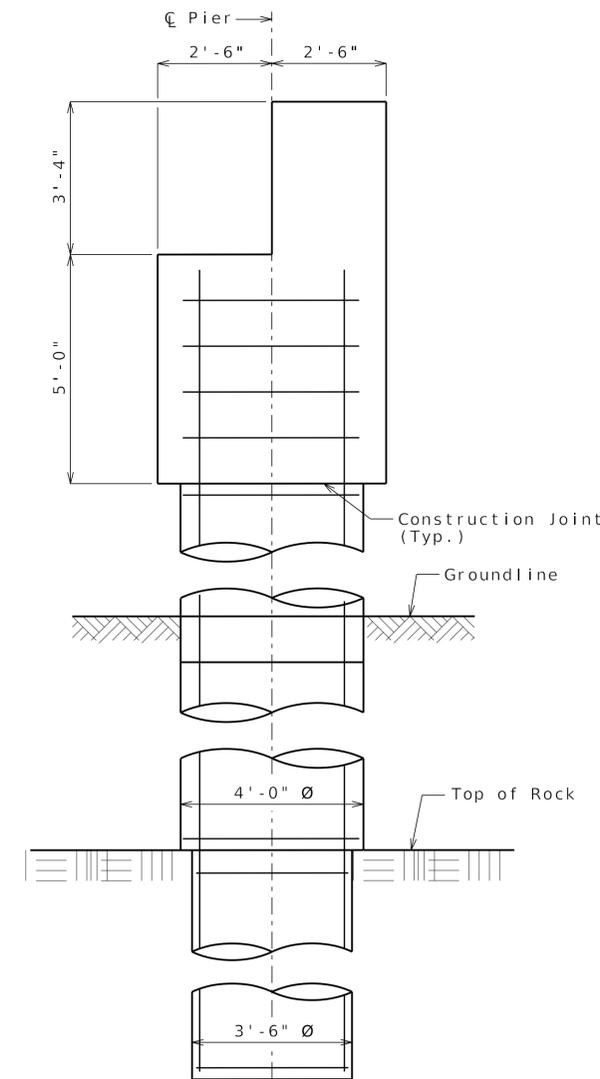
715 W. KIRK DRIVE  
KANSAS CITY, MO 64105-1310  
PHONE 877-443-3181  
FAX 877-443-3182  
WWW.BARTLETTWEST.COM



PLAN  
(Pier 6 shown, Pier 7 similar)



ELEVATION  
(Pier 6 shown, Pier 7 similar)



SECTION A-A

Notes:

Cover: 2" Chamfer all edges:  $\frac{3}{4}'' \times \frac{3}{4}''$ .

For column and drilled shaft sections, see Sheet No. A5801T-15

unless noted otherwise

DATE PREPARED 7/22/2025	
ROUTE I - 70	STATE MO
DISTRICT BR	SHEET NO. A5801T-14
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A5801T	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

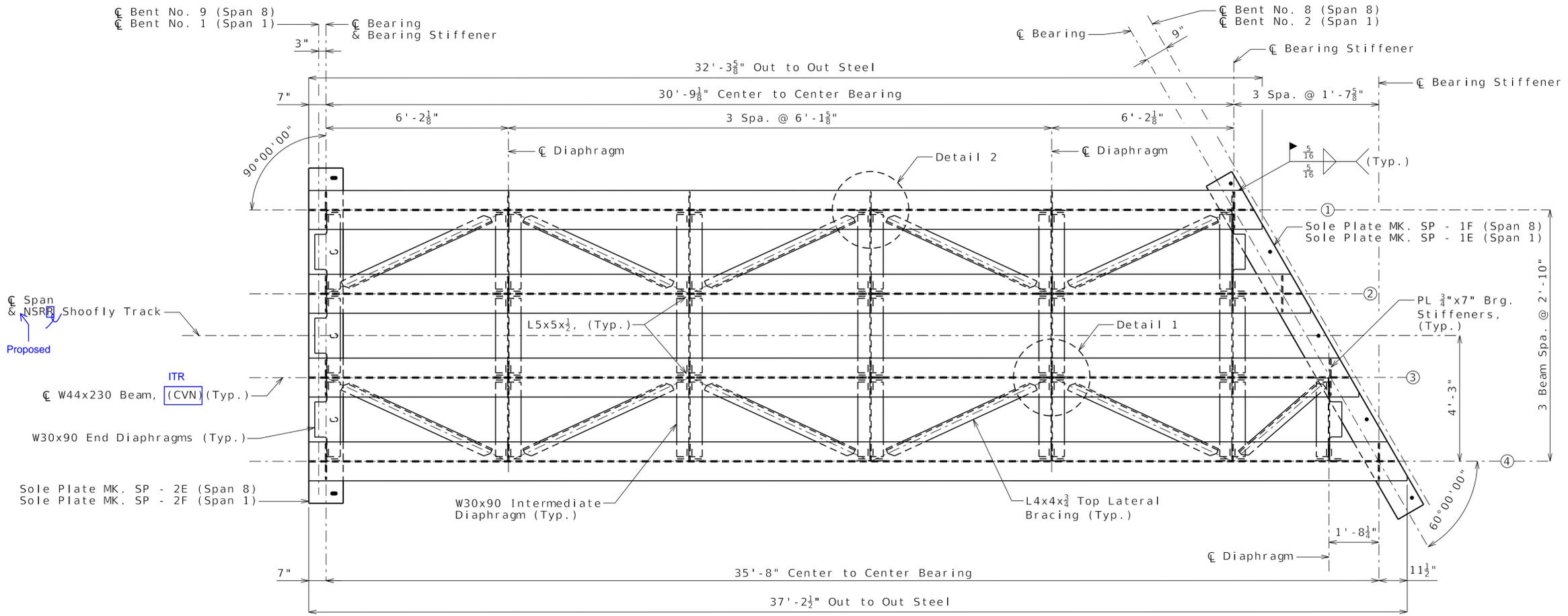
105 WEST CAPITOL  
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715 KIRK DRIVE  
KANSAS CITY, MO 64105-1310  
CERTIFICATE OF AUTHORITY  
NO. 001270

**HNTB**

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CERTIFICATE OF AUTHORITY  
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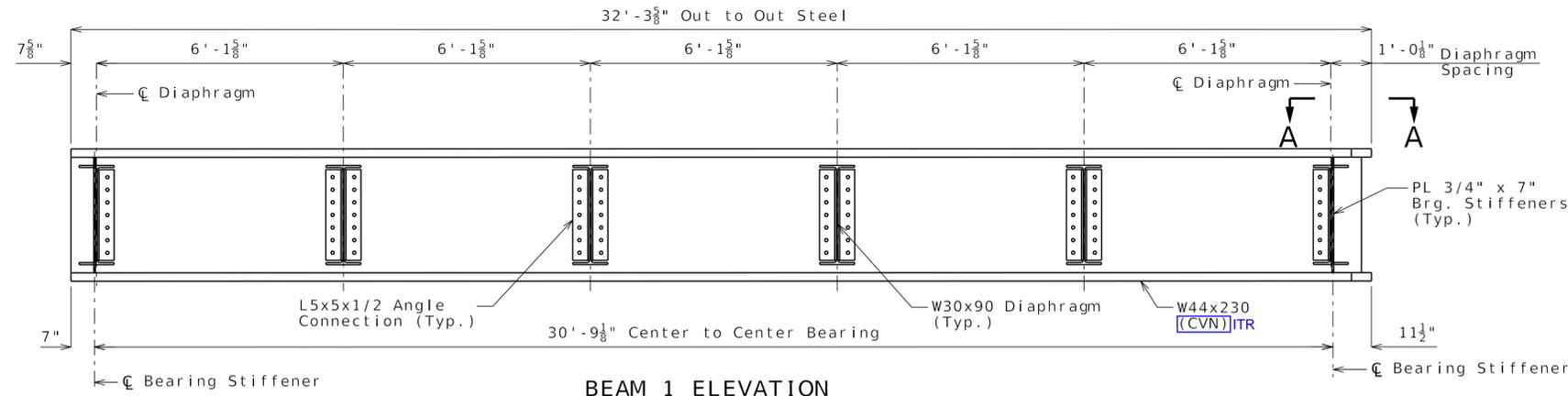
FRAMING PLAN - SPAN 8  
Span 1 similar

Notes:  
For additional notes, see Sheet No. A5801T-3.  
For Beam Elevations, see Sheet No. A5801T-17.  
For Details 1 and 2, see Sheet No. A5801T-21.  
For Superstructure Details, see Sheet No. A5801T-21.

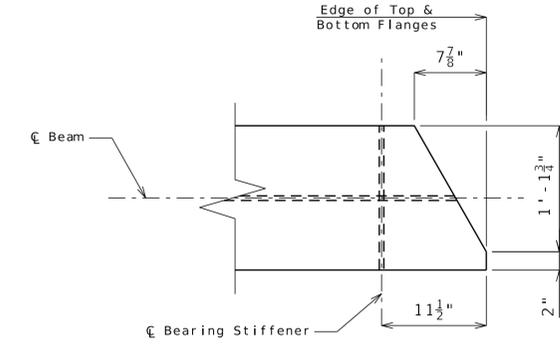
Not For Construction

FRAMING PLAN - SPANS 1 & 8

DATE PREPARED 7/22/2025	
ROUTE I-70	STATE MO
DISTRICT BR	SHEET NO. A5801T-16
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A5801T	
DESCRIPTION	
DATE	
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	
105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
715 N. W. DRIVE KANSAS CITY, MO 64105-1310 CERTIFICATE OF AUTHORITY NO. 001270	
601 HENDON ST., JEFFERSON CITY, MO 65101 PHONE 872-6303181 CERTIFICATE OF AUTHORITY NO. 001270	

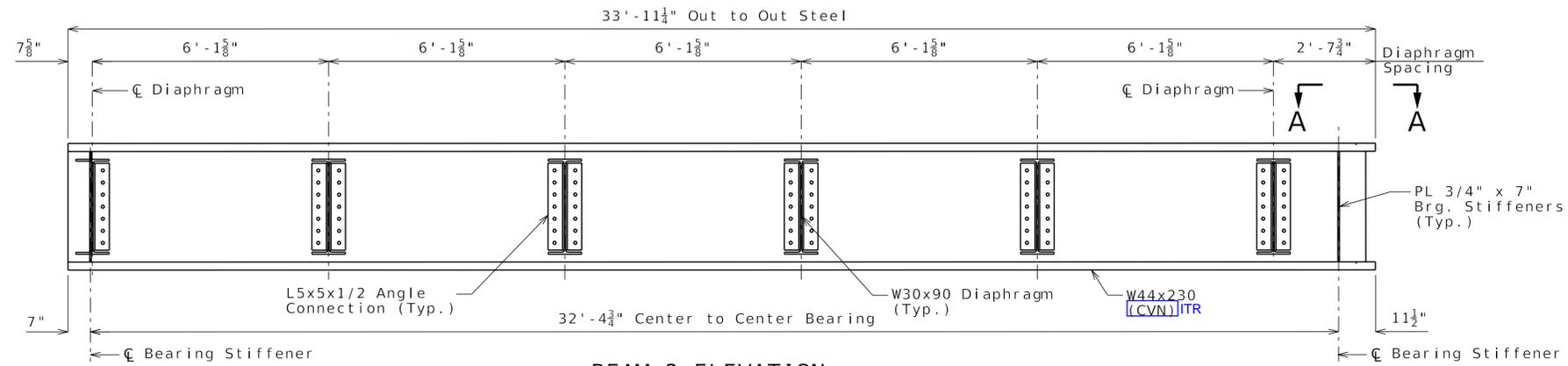


BEAM 1 ELEVATION

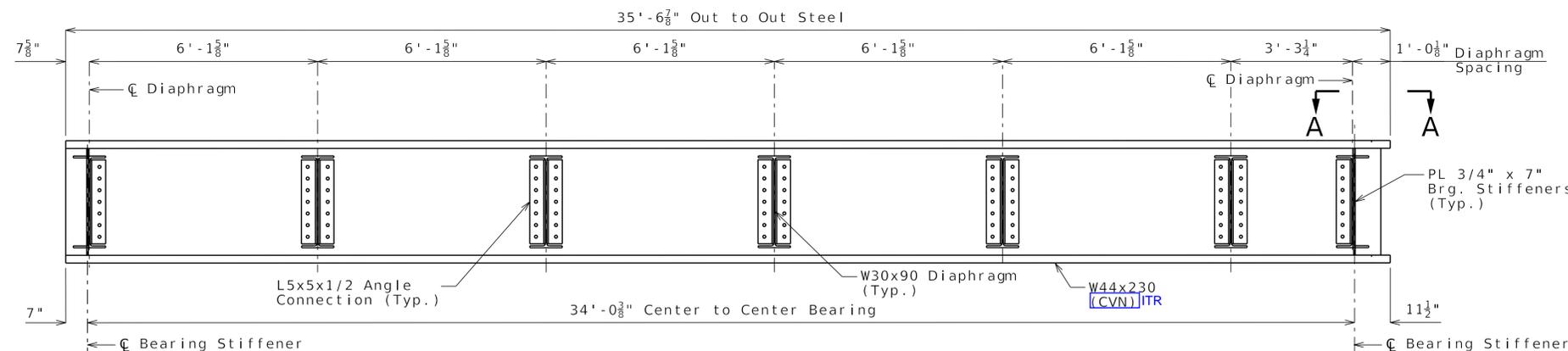


DETAIL A-A

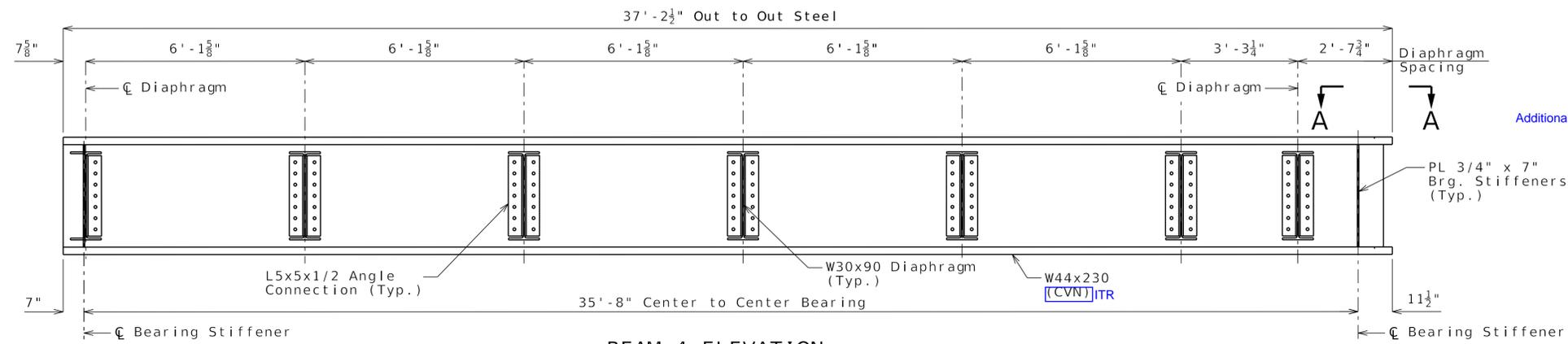
View



BEAM 2 ELEVATION



BEAM 3 ELEVATION



BEAM 4 ELEVATION

Notes:  
 (CVN) Denotes a Charpy V-notch test is required. Furnish Material that meets the minimum notch toughness requirements as specified in AREMA 15-1.14.5

Additional Notes:  
 For Notes, see Sheet No. A5801T-3.  
 For Framing Plan, Spans 1 and 8, see Sheet No. A5801T-16.  
 For Superstructure Details, see Sheet Nos. A5801T-21.

Not For Construction

BEAM ELEVATION - SPANS 1 & 8

Detailed JULY 2025  
 Checked JULY 2025

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

Sheet 17 of 27

DATE PREPARED 7/22/2025	
ROUTE I-70	STATE MO
DISTRICT BR	SHEET NO. A5801T-17
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A5801T	

DATE	DESCRIPTION

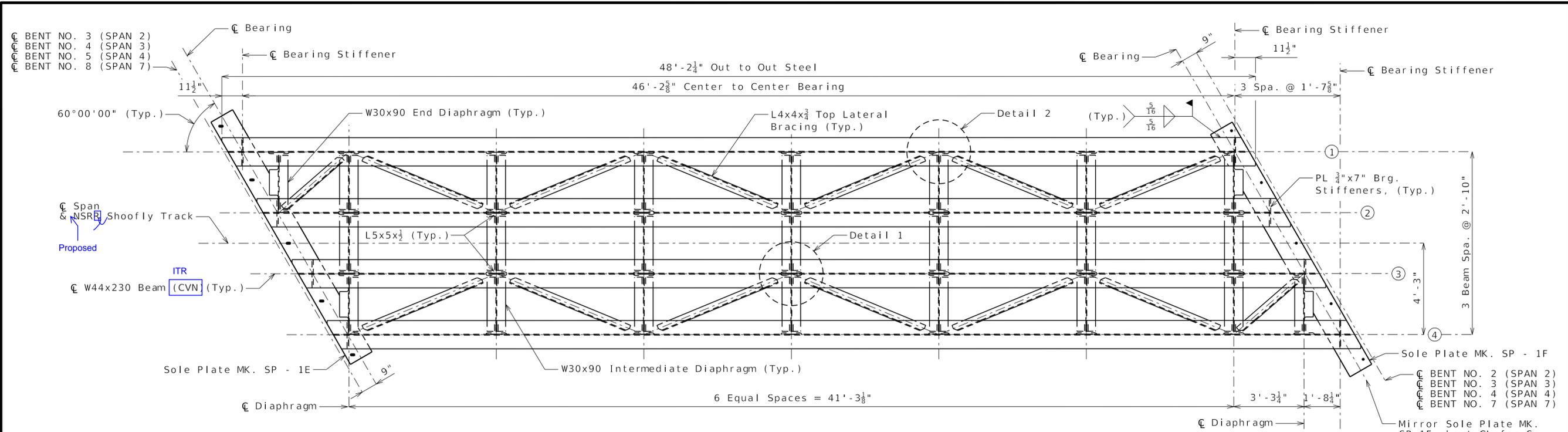
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

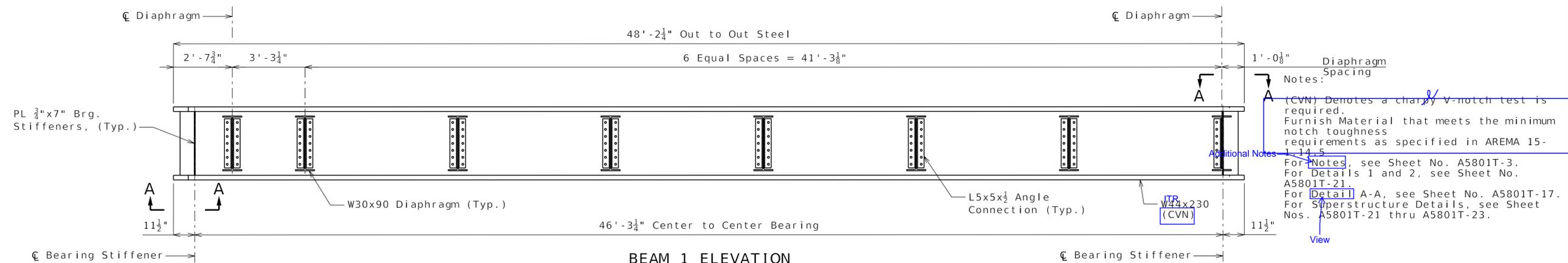
IMPROVE 70 ALLIANCE

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

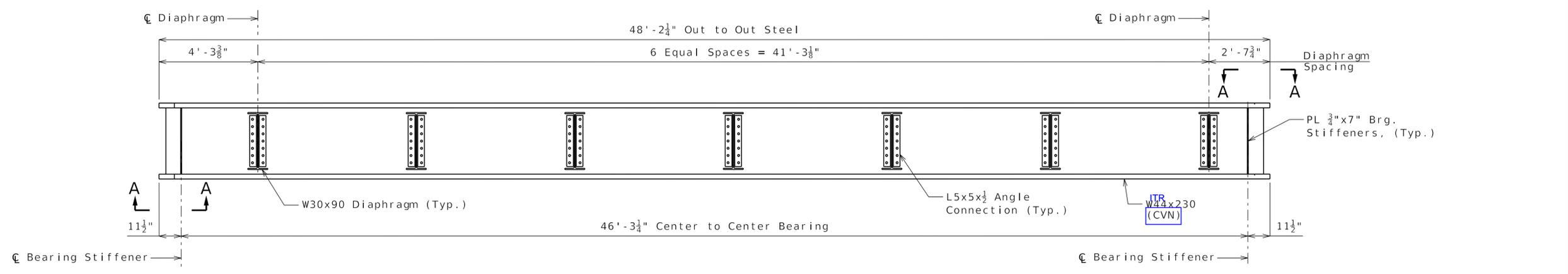
Bartlett & West  
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 PHONE 872-630-3161  
 CERTIFICATE OF AUTHORITY  
 NO. 001270



FRAMING PLAN - SPAN 2, 3, 4, 7



BEAM 1 ELEVATION  
(Beam 1 shown. Beam 4 opposite hand)



BEAM 2 ELEVATION  
(Beam 2 shown. Beam 3 opposite hand)

Detailed JULY 2025  
Checked JULY 2025

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

Sheet 18 of 27

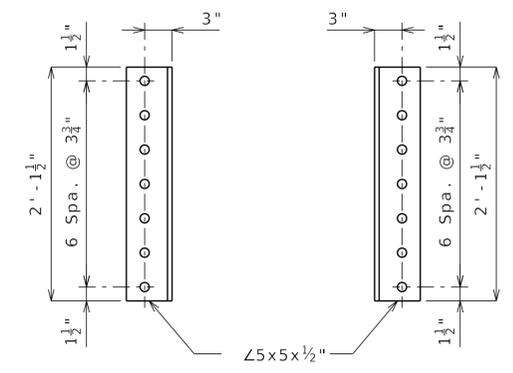
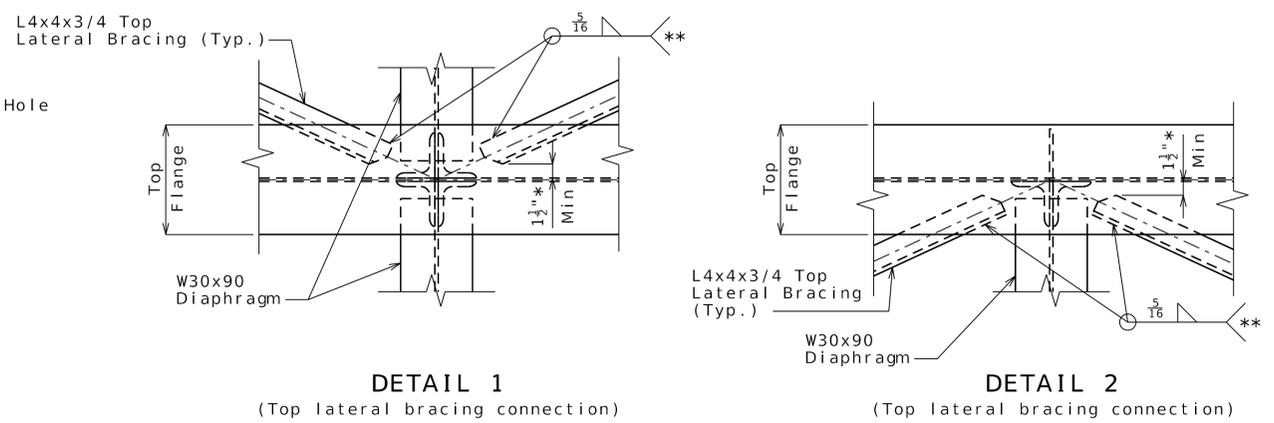
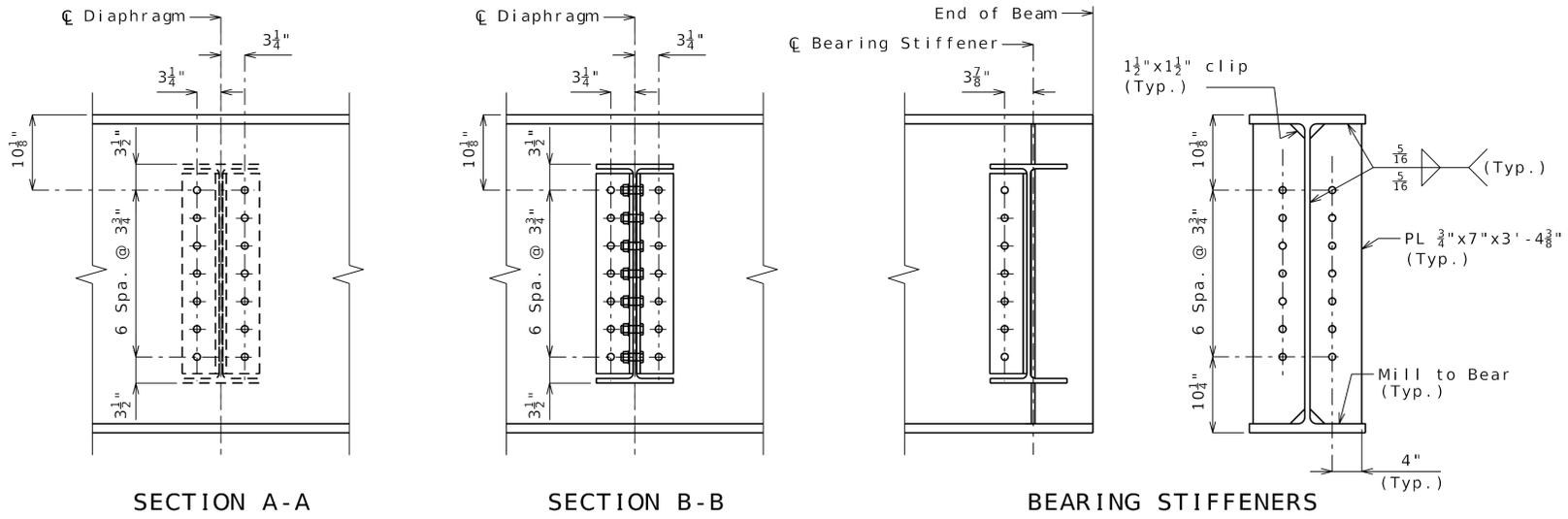
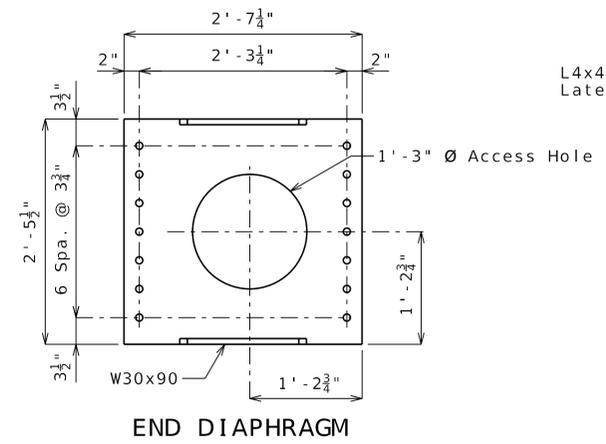
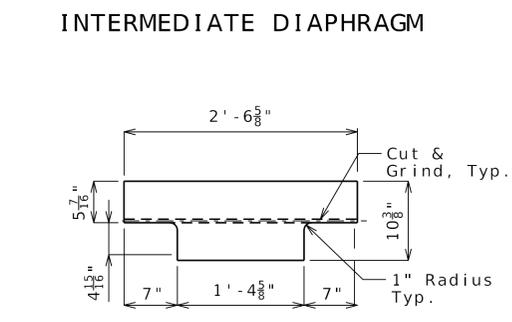
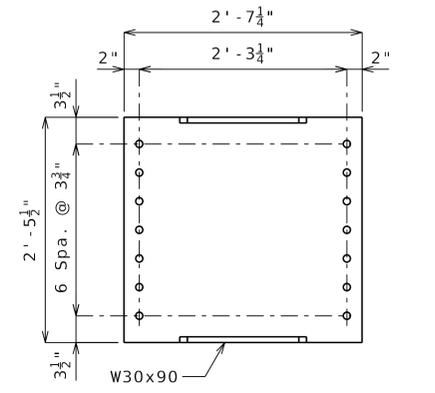
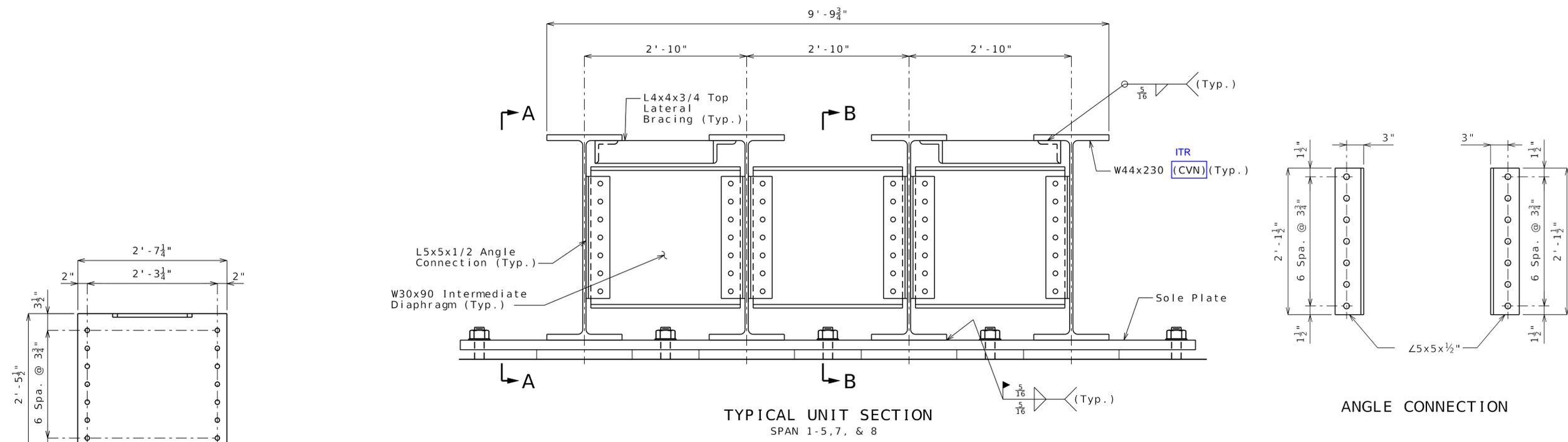
FRAMING PLAN AND BEAM ELEVATIONS - SPANS 2, 3, 4, & 7

Not For Construction

DATE PREPARED 7/22/2025	
ROUTE I-70	STATE MO
DISTRICT BR	SHEET NO. A5801T-18
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A5801T	
DESCRIPTION	DATE
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	
	105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)
HNTB 715 W. KIRK DRIVE KANSAS CITY, MO 64105-1310 CERTIFICATE OF AUTHORITY NO. 001270	Bartlett & West 601 HONORE ST., SUITE 201 - JEFFERSON CITY, MO 65101 PHONE 872-630-3181 CERTIFICATE OF AUTHORITY NO. 001270







Notes:  
 For additional notes, see Sheet No. A5801T-3.  
 For Bearing Details, see sheet No. A5801T-25.  
 \* Dimension is from toe of web-flange to toe of flange-top lateral bracing weld.  
 \*\* Terminate top lateral bracing welds 1/4" +/- 1/8" from the beam top flange edge.

DATE PREPARED 7/22/2025	
ROUTE I - 70	STATE MO
DISTRICT BR	SHEET NO. A5801T-21
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A5801T	

DATE	DESCRIPTION

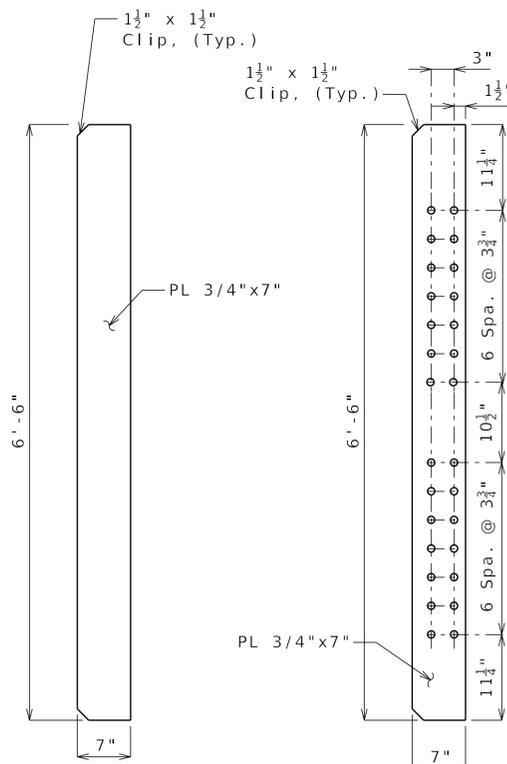
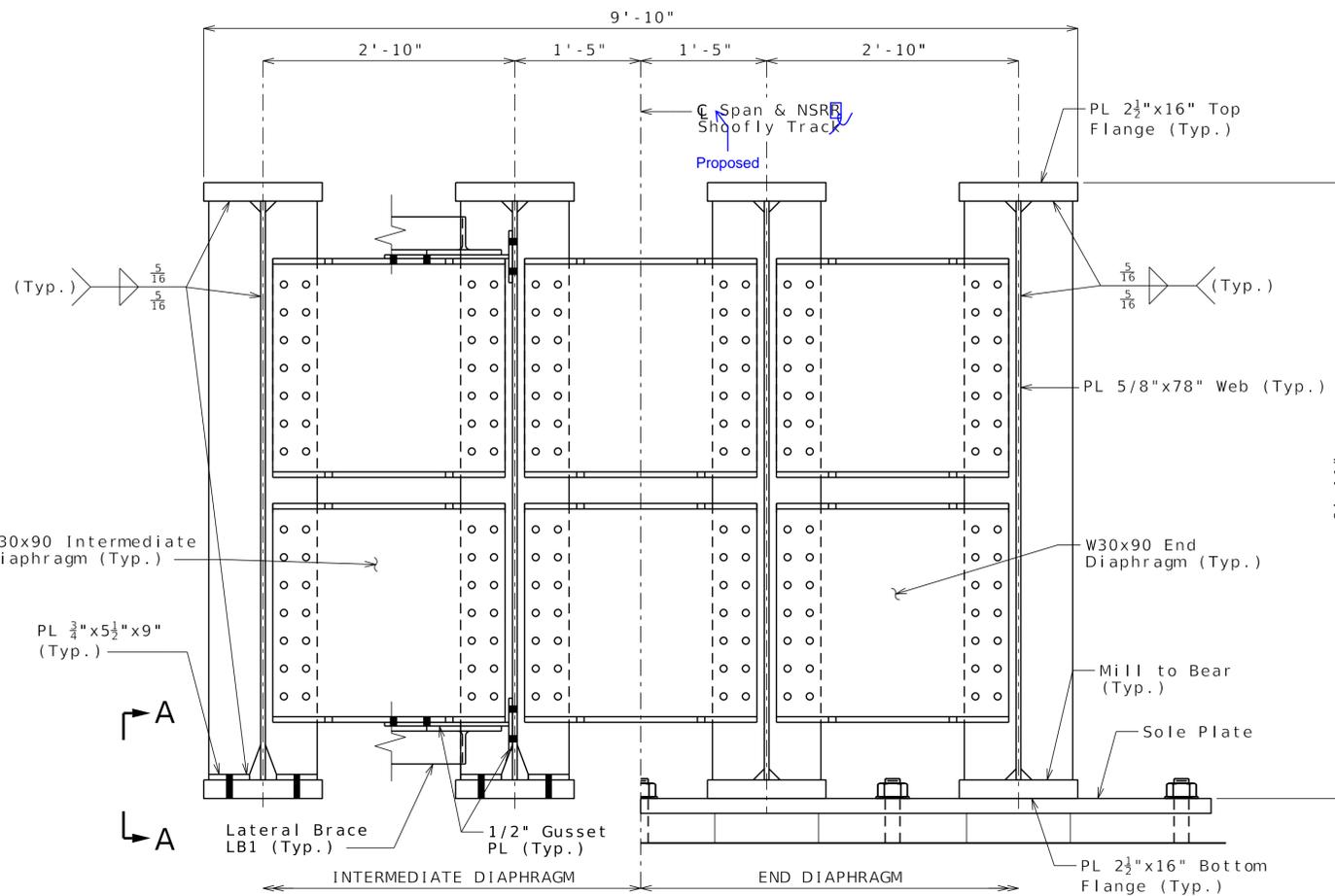
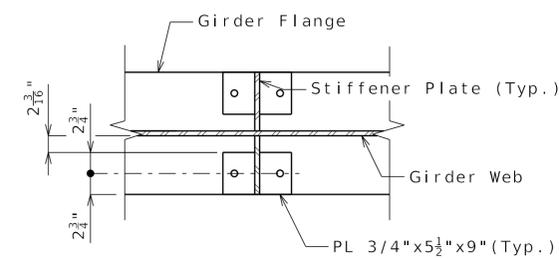
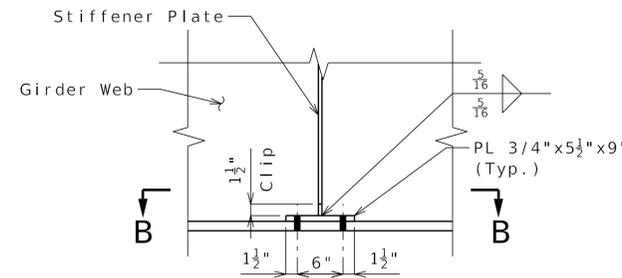
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

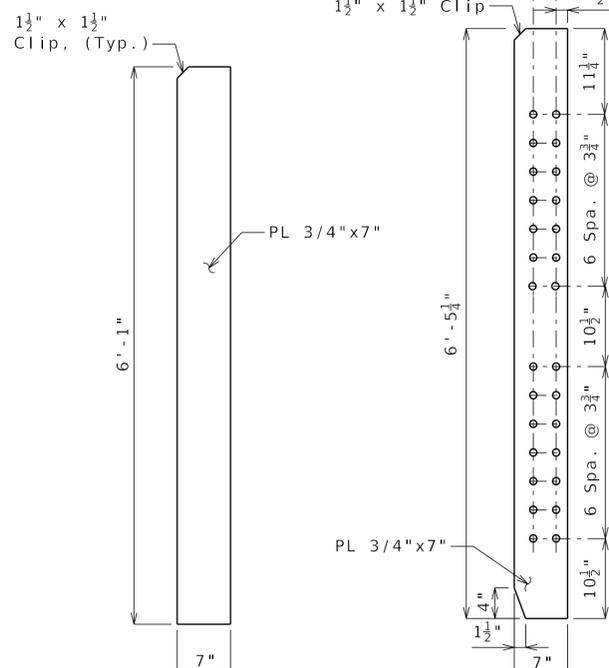
IMPROVE 70 ALLIANCE

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

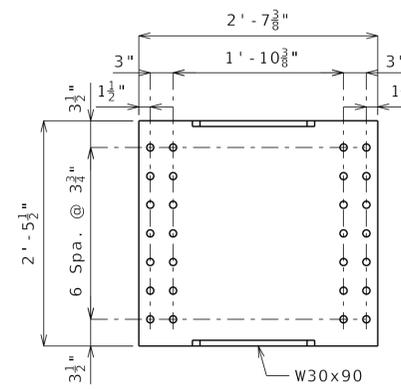
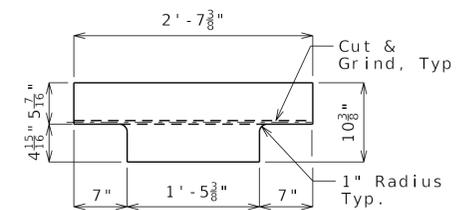
Bartlett & West  
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 PHONE 872-630-3161  
 CERTIFICATE OF AUTHORITY  
 NO. 001270



BEARING STIFFENER WITH DIAPHRAGM CONNECTION



INTERMEDIATE STIFFENER WITH DIAPHRAGM CONNECTION



TYPICAL DIAPHRAGM

Notes:  
 For **General Notes**, see Sheet No. A5801T-3  
 For **Lateral Bracing and Connection Details**, see Sheet No. A5801T-23  
 For **Bearing Details**, see Sheet No. A5801T-25

Additional Notes

DATE PREPARED 7/22/2025	
ROUTE I-70	STATE MO
DISTRICT BR	SHEET NO. A5801T-22
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A5801T	

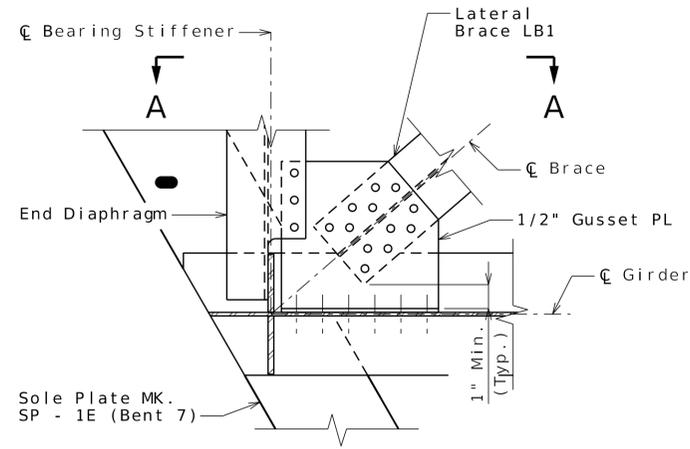
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

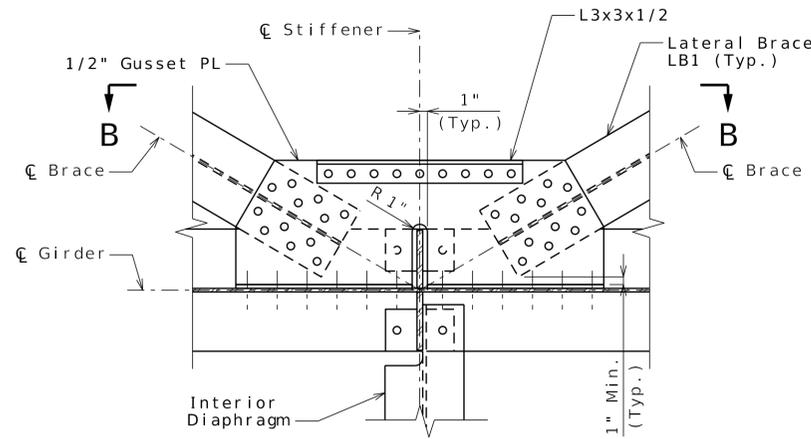
105 WEST CAPITOL  
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KANSAS CITY, MO 64105-1310  
CERTIFICATE OF AUTHORITY  
NO. 001270

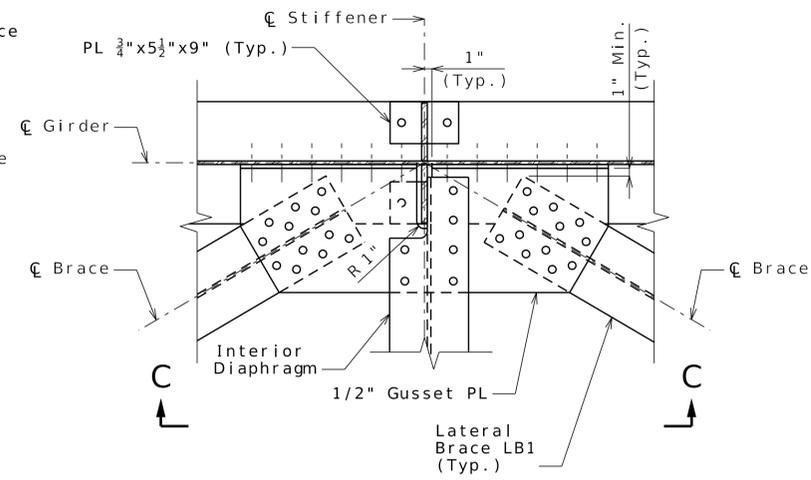
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PHONE 872-600-3161  
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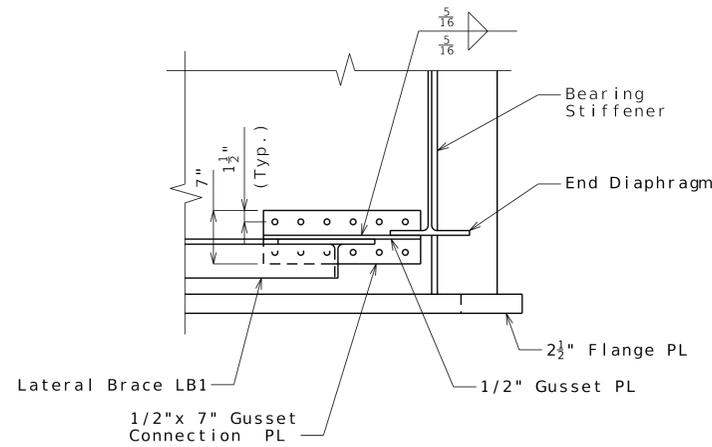
**DETAIL 1**  
(Bottom lateral bracing shown,  
top lateral bracing similar)



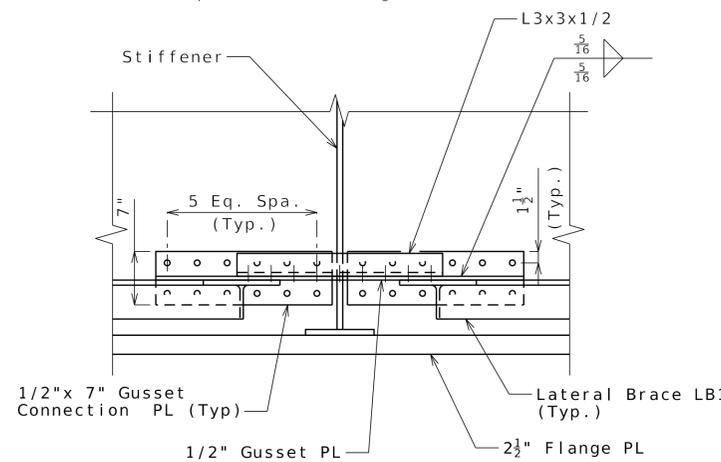
**DETAIL 2**  
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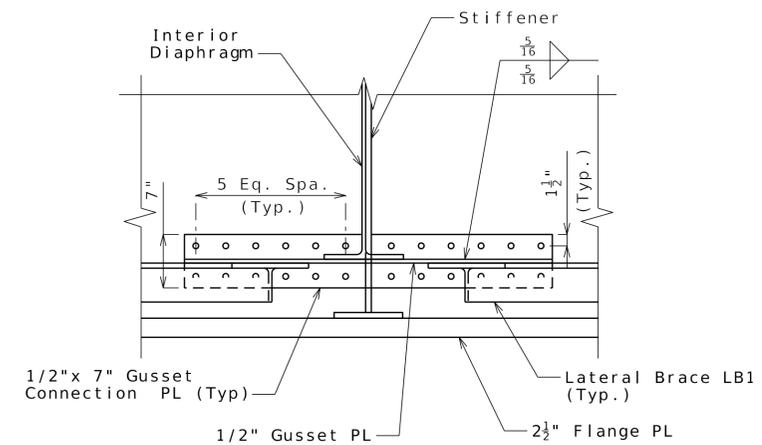
**DETAIL 3**  
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top lateral bracing similar)



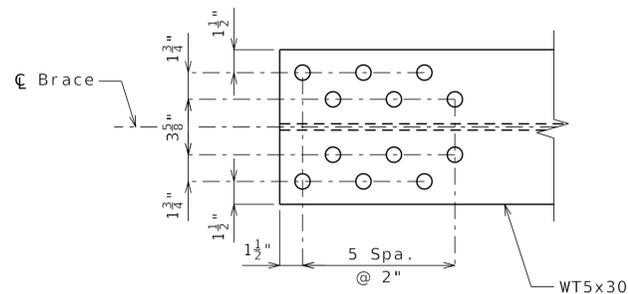
Section A-A



Section B-B



Section C-C



LATERAL BRACE LB1

Note:  
Bolt spacing and edge distances shall meet AREMA  
Chapter 15 requirements.

DATE PREPARED 7/22/2025	
ROUTE I-70	STATE MO
DISTRICT BR	SHEET NO. A5801T-23
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A5801T	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

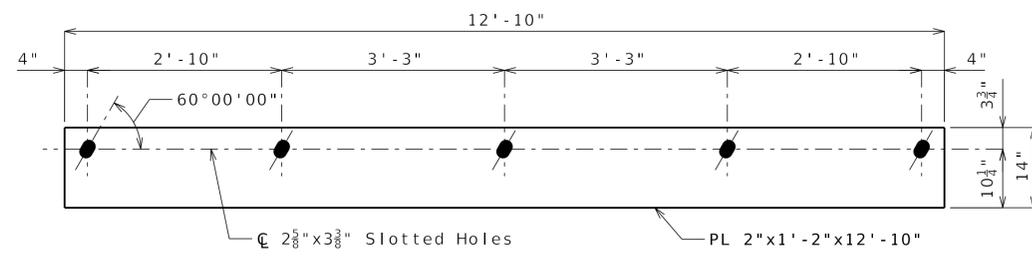
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

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

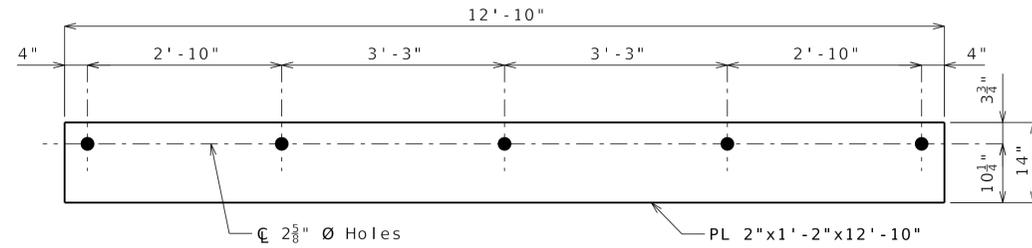
**HNTB**

**Bartlett & West**  
601 MONROE ST., SUITE 201 - JEFFERSON CITY, MO 65101  
PHONE 872-630-3161  
FAX 872-630-3161  
WWW.BARTLETTWEST.COM

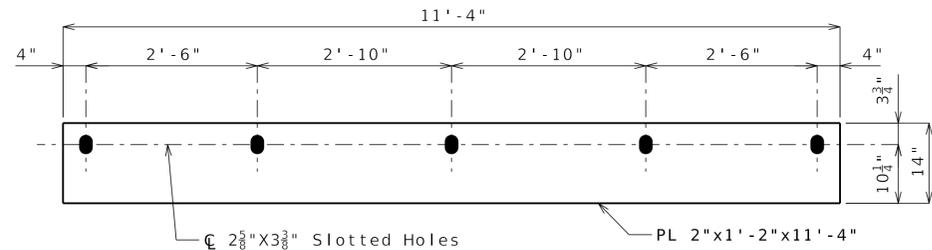




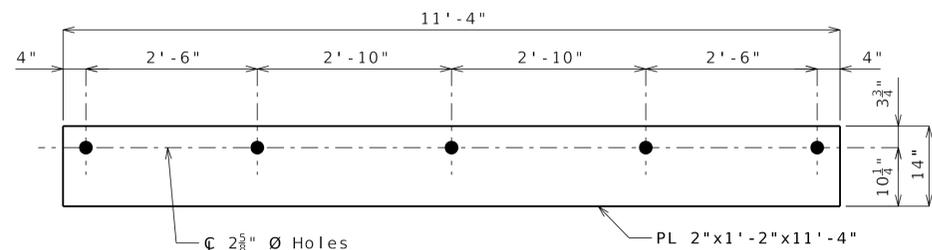
**SOLE PLATE MK. SP-1E**  
(Est. Wt. = 1225 Lbs Each)



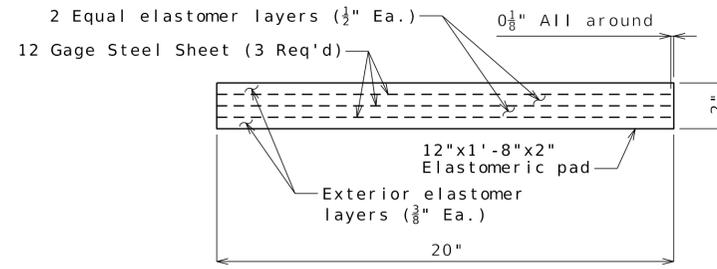
**SOLE PLATE MK. SP-1F**  
(Est. Wt. = 1225 Lbs Each)



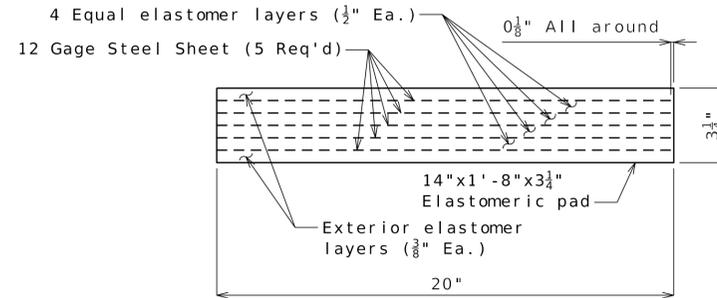
**SOLE PLATE MK. SP-2E**  
(Est. Wt. = 1080 Lbs Each)



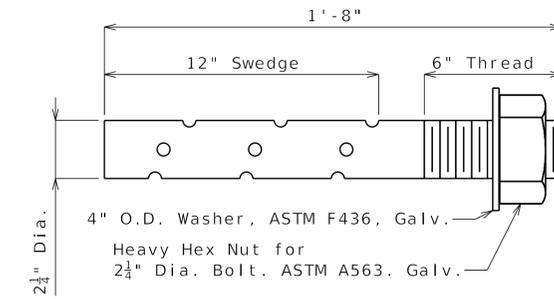
**SOLE PLATE MK. SP-2F**  
(Est. Wt. = 1080 Lbs Each)



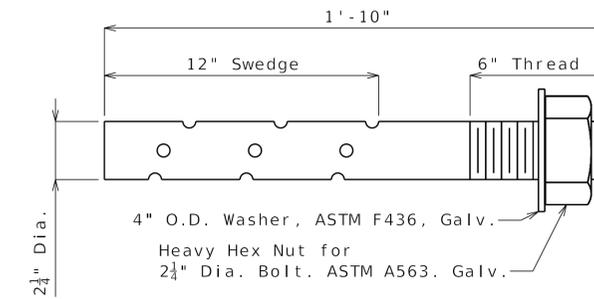
**Bearing Pad MK. BP1**



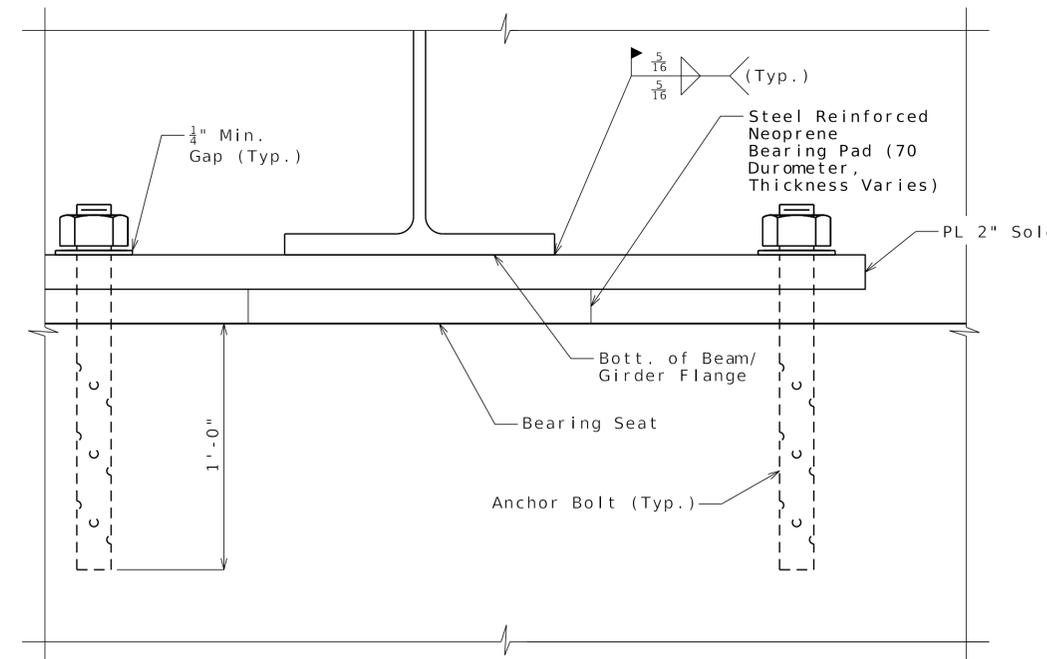
**Bearing Pad MK. BP2**



**ANCHOR BOLT AB1**  
ASTM F1554 Grade 105, Galv.  
AB1 Spans 1,2,3,4,5,7 & 8



**ANCHOR BOLT AB2**  
ASTM F1554 Grade 105, Galv.  
AB2 for Span 6



**TYPICAL BEARING ASSEMBLY ELEVATION**

Notes:  
Laminated, steel reinforced neoprene bearing pads shall conform to the requirements of AREMA Manual for Railway Engineering, Chapter 15, Table 15-5-7 for 70 durometer hardness.  
Sole plates shall be ASTM A709, Grade 50W.

DATE PREPARED 7/22/2025	
ROUTE I-70	STATE MO
DISTRICT BR	SHEET NO. A5801T-25
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A5801T	

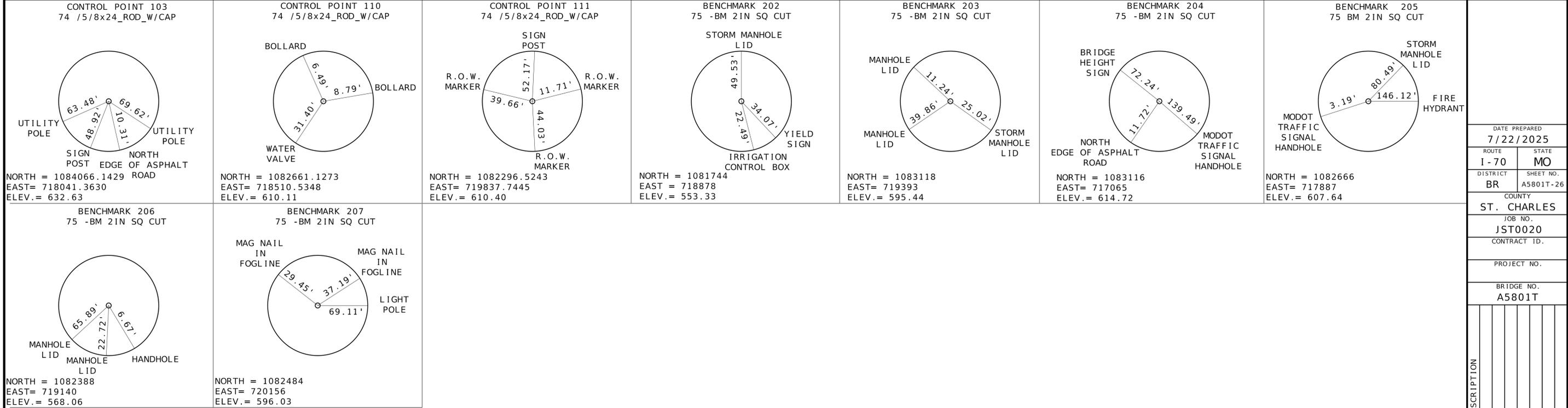
DATE	DESCRIPTION

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  
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PHONE 872-653181  
FAX 872-653182  
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ROUTE I - 70	STATE MO
DISTRICT BR	SHEET NO. A5801T-26
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A5801T	

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

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PHONE 872-653181  
FAX 872-653181  
WWW.BARTLETTWEST.COM  
ENGINEERING

Detailed JUL 2025  
Checked JUL 2025

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

Sheet 26 of 27

Not For Construction  
SURVEY CONTROL POINTS

