DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
10/19/2026		6	ARK.	110812	25	107
10/23/2026		SUMMARY OF QUANTITIES AND REVISIONS				

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.10887
SCOTT P. THORNSBERRY
10-23-2026

SUMMARY OF QUANTITIES (BOX 1 OF 2)

ITEM NUMBER	ITEM	QUANTITY	UNIT
202	REMOVAL AND DISPOSAL OF CONCRETE PAVEMENT	32	SQ. YD.
202	REMOVAL AND DISPOSAL OF APPROACH SLAB AND GUTTERS	2	EACH
202	REMOVAL AND DISPOSAL OF GUARDRAIL	1604	LIN. FT.
202	REMOVAL AND DISPOSAL OF EXISTING CONDUIT AND CABLING	1.00	LUMP SUM
202	REMOVAL AND DISPOSAL OF EXISTING ITS EQUIPMENT	1.00	LUMP SUM
202	REMOVAL AND DISPOSAL OF EXISTING NAVIGATION LIGHTING SYSTEM	1.00	LUMP SUM
202	REMOVAL AND DISPOSAL OF EXISTING OBSTRUCTION LIGHTING SYSTEM	1.00	LUMP SUM
SP, SS, & 210	UNCLASSIFIED EXCAVATION	25	CU. YD.
SP & 210	COMPACTED EMBANKMENT	16	CU. YD.
SP & 215	TRENCHING AND SHOULDER PREPARATION	5	STATION
SP, SS, & 303	AGGREGATE BASE COURSE (CLASS 7)	83	TON
SP, SS, & 309	PORTLAND CEMENT CONCRETE BASE (10" UNIFORM THICKNESS)	117	SQ. YD.
SS & 401	TACK COAT	513	GAL.
SP, SS, & 407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2")	538	TON
SP, SS, & 407	ASPHALT BINDER (PG 76-22) IN ACHM SURFACE COURSE (1/2")	34	TON
SP & 412	COLD MILLING ASPHALT PAVEMENT	4930	SQ. YD.
SP, SS, & 414	ASPHALT CONCRETE PATCHING FOR MAINTENANCE OF TRAFFIC	5	TON
SP, SS, & 415	ACHM PATCHING OF EXISTING ROADWAY	25	TON
SP, SS, & 504	APPROACH SLABS	94.80	CU. YD.
SP, SS, & 504	APPROACH GUTTERS	18.84	CU. YD.
SP, SS, & 507	PORTLAND CEMENT CONCRETE PAVEMENT PATCHING (9" UNIFORM THICKNESS)	32.00	SQ. YD.
601	MOBILIZATION	1.00	LUMP SUM
SP & 602	FURNISHING FIELD OFFICE	1	EACH
SP, SS, & 603	MAINTENANCE OF TRAFFIC	1.00	LUMP SUM
SP & 603	TRAFFIC CONTROL SUPERVISOR	1.00	LUMP SUM
SS & 604	SIGNS	612	SQ. FT.
SP, SS, & 604	CONSTRUCTION PROJECT INFORMATION SIGN UPDATE	4	EACH
SS & 604	BARRICADES	80	LIN. FT.
SS & 604	TRAFFIC DRUMS	31	EACH
SS & 604	FURNISHING AND INSTALLING PRECAST CONCRETE BARRIER	5266	LIN. FT.
SS & 604	RELOCATING PRECAST CONCRETE BARRIER	8466	LIN. FT.
604	CONSTRUCTION PAVEMENT MARKINGS	25297	LIN. FT.
604	REMOVABLE CONSTRUCTION PAVEMENT MARKINGS	8822	LIN. FT.
604	REMOVAL OF PERMANENT PAVEMENT MARKINGS	800	LIN. FT.
SS & 604	VERTICAL PANELS	158	EACH
SP	MOTORIST ASSISTANCE PATROL	1.00	LUMP SUM
SP	WRECKER SERVICE	1.00	LUMP SUM
SP	PORTABLE CAMERA TRAILER	2	EACH
SP	DEVICE RELOCATION	4	EACH
SP	FURNISH AND INSTALL VARIABLE MESSAGE SIGN	4	EACH
SP	VMSS MOBILIZATION	1.00	LUMP SUM
SP	VMSS OPERATION	36	MNTH
SP, SS, & 604	WARNING SIGN ASSEMBLY WITH FLASHING BEACONS	6	EACH
SP, SS, & 604	FURNISHING AND INSTALLING PRECAST CONCRETE BARRIER (TYPE SPECIAL)	240	LIN. FT.
SP, SS, & 604	RELOCATING PRECAST CONCRETE BARRIER (TYPE SPECIAL)	240	LIN. FT.
SS & 617	GUARDRAIL (TYPE A)	1450	LIN. FT.
SS & 617	GUARDRAIL TERMINAL (TYPE 2)	2	EACH
SS & 617	THRIE BEAM GUARDRAIL TERMINAL	2	EACH
620	LIME	1	TON
620	SEEDING	0.50	ACRE
SS & 620	MULCH COVER	1.00	ACRE
620	WATER	61.2	M. GAL.
621	TEMPORARY SEEDING	0.50	ACRE
621	SEDIMENT REMOVAL AND DISPOSAL	12	CU. YD.
621	ROCK DITCH CHECKS	18	CU. YD.
SS & 621	FILTER SOCK (12")	1584	LIN. FT.
621	WATTLE (20")	54	LIN. FT.
623	SECOND SEEDING APPLICATION	0.50	ACRE
SP	EQUIPMENT CABINET, TYPE B	3	EACH
SP	PORTABLE TRAFFIC SIGNAL SYSTEM - ACTUATED	156	WEEK
SP	ETHERNET SWITCH, T100 HARDENED (8-PORT)	7	EACH
SP	E-NET CABLE (EXTERIOR CAT 6)	1340	LIN. FT.
SP	CELLULAR MODEM	7	EACH
SP	TRAFFIC TIMER UNIT - COUNTDOWN	156	WEEK
SP	ROAD WEATHER INFORMATION SYSTEM	2	EACH
SP	PTZ CAMERA SYSTEM	16	EACH
SP	ELECTRICAL CONDUCTORS IN CONDUIT (3C/8, A.W.G., E.G.C.)	8260	LIN. FT.
SP & 709	GALVANIZED STEEL CONDUIT (2")	8260	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING WHITE (6")	13015	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING YELLOW (6")	12282	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING (WORDS)	2	EACH
719	THERMOPLASTIC PAVEMENT MARKING (ARROWS)	4	EACH
721	RAISED PAVEMENT MARKERS (TYPE II)	98	EACH
SP	BRIDGE POST MOUNTED SIGN SUPPORT	2	EACH
SS & 725	GUIDE SIGN-ROADSIDE MOUNTED (DIRECT APPLIED LEGEND)	215	SQ. FT.
SP	BARRIER WALL DELINEATOR	2080	EACH
SS & 731	TEMPORARY IMPACT ATTENUATION BARRIER	8	EACH
SS & 731	TEMPORARY IMPACT ATTENUATION BARRIER (REPAIR)	16	EACH
SS & 731	TEMPORARY IMPACT ATTENUATION BARRIER (RELOCATION)	64	EACH
SP, SS, & 804	REINFORCING STEEL-ROADWAY (GRADE 60)	12536	POUND
SP	NAVIGATION LIGHTING SYSTEM	1.00	LUMP SUM
SP	OBSTRUCTION LIGHTING SYSTEM	1.00	LUMP SUM
SP	RADIO INTERCONNECT, BROADBAND, SHORT RANGE	13	EACH
SP	TERMINAL SERVER	1	EACH
SP	VIDEO MANAGEMENT SYSTEM INTEGRATION	1.00	LUMP SUM
SP	ITS ELECTRICAL JUNCTION BOX, METALLIC (24" X 24" X 8")	22	EACH
	STRUCTURES OVER 20' SPAN		
SP	TEMPORARY FALSEWORK (SITE NO. 1)	1.00	LUMP SUM
SP	BRIDGE JACKING (SITE NO. 1)	1.00	LUMP SUM
SP, SS, & 802	CLASS S CONCRETE-BRIDGE	11.8	CU. YD.
SP, SS, & 802	CLASS S(AE) CONCRETE-BRIDGE	2.5	CU. YD.
SP	LIGHTWEIGHT AGGREGATE CONCRETE (AE)	2552.2	CU. YD.
SP & 803	CLASS 2 PROTECTIVE SURFACE TREATMENT	2309.8	SQ. YD.
SP, SS, & 804	LCCR REINFORCING STEEL-BRIDGE (GRADE 100)	413880	POUND
SS & 804	EPOXY COATED REINFORCING STEEL (GRADE 60)	115180	POUND

SUMMARY OF QUANTITIES (BOX 2 OF 2)

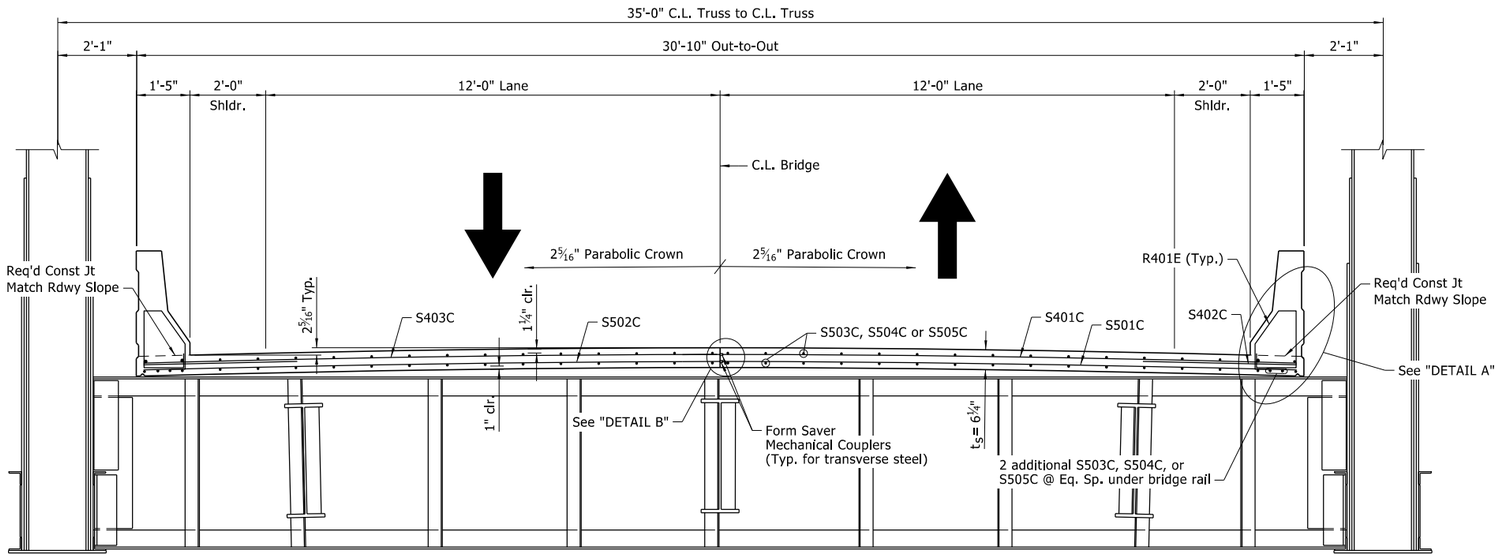
ITEM NUMBER	ITEM	QUANTITY	UNIT
SP, SS, & 807	STRUCTURAL STEEL IN PLATE GIRDER SPANS (A709, GR. 36)	33630	POUND
SP, SS, & 807	STRUCTURAL STEEL IN PLATE GIRDER SPANS (A709, GR. 50W)	3720	POUND
SP, SS, & 807	STRUCTURAL STEEL IN TRUSS SPANS (A709, GR. 36)	267350	POUND
SP, SS, & 807	STRUCTURAL STEEL IN TRUSS SPANS (A709, GR. 50W)	3870	POUND
SP	REPAIR TYPE A: FLOOR BEAM TOP FLANGE	1	EACH
SP	REPAIR TYPE B: FLOOR BEAM BOTTOM FLANGE	11	EACH
SP	REPAIR TYPE C: FLOOR BEAM WEB	10	EACH
SP	REPAIR TYPE D: FLOOR BEAM STIFFENER	48	EACH
SP	REPAIR TYPE E: STRINGER PIN AND HANGER	9	EACH
SP	REPAIR TYPE F: RIVET REPLACEMENTS	550	EACH
SP	REPAIR TYPE G: STRINGER CONNECTION ANGLE REPLACEMENT	2	EACH
SP	REPAIR TYPE H: CROSS BEAM REPLACEMENT	51	EACH
SP	CRACK ARREST HOLE	1	EACH
SS & 808	ELASTOMERIC BEARINGS	5722	CU. IN.
SP	PREFORMED SILICONE JOINT	596	LIN. FT.
SP & 820	CLEANING AND PAINTING EXISTING STRUCTURAL STEEL (TYPE II)	6484	TON
SP & 820	DISPOSAL OF HAZARDOUS WASTE (SITE NO. 1)	1.00	LUMP SUM
821	MODIFICATION OF EXISTING BRIDGE STRUCTURE (BRIDGE NO. 02899)	1.00	LUMP SUM
SP	SHORING (SITE NO. 1)	1.00	LUMP SUM
SP	SHORING TYPE 1: MAIN TRUSS SPANS FLOOR BEAM	1.00	LUMP SUM
SP	SHORING TYPE 2: MAIN TRUSS SPANS WIND LOCK	1.00	LUMP SUM
SP	SHORING TYPE 3: MAIN TRUSS SPANS STRINGER	1.00	LUMP SUM
SP	SHORING TYPE 4: APPROACH SPANS FLOOR BEAM	1.00	LUMP SUM
SP	SHORING TYPE 5: APPROACH SPANS WIND LOCK	1.00	LUMP SUM
SP	BRIDGE DECK REPAIR FOR POLYMER OVERLAYS	2923.9	SQ. FT.
SP	POLYMER OVERLAY	16167.0	SQ. YD.

REVISIONS

DATE	REVISION	SHEET NUMBER
10/19/2026	REVISED DETAILS FOR BACKFILL OF WEST APPROACH BACKWALL, KEYED NOTES ON LIGHTING LAYOUT OF BRIDGE, GALVANIZING STANDARD, NEW STIFFENER DETAILS FOR FLOOR BEAM REPAIRS, EPOXY COATED REINFORCING STEEL (GRADE 60) ITEM NUMBER, QUANTITY OF FURNISH AND INSTALL VARIABLE MESSAGE SIGN, SHORING SP, CONTRACTOR CERTIFICATION SP, COORDINATION OF WORK SP, NETWORKING EQUIPMENT SP, RADIO INTERCONNECT SYSTEM SP, ROAD WEATHER INFORMATION SYSTEM (RWIS) SP, ITS EQUIPMENT CABINETS SP, FLEXIBLE BEGINNING OF WORK - CALENDAR DAY CONTRACT SP, LIGHTWEIGHT AGGREGATE CONCRETE (AE) SP, MAINTENANCE OF TRAFFIC SP, REQUIREMENTS OF U.S. COAST GUARD PERMIT SP, WRECKER SERVICE SP, PRIME CONTRACTOR PERFORMANCE EVALUATION SP, PROSECUTION AND PROGRESS WITH BID SCHEDULE SP, PORTABLE CAMERA TRAILERS SP, AND 802-5 CONCRETE FOR STRUCTURES SS. ADDED STD. DWG. PU-1, COMPACTED EMBANKMENT SP, AND PAY ITEM E-NET CABLE (EXTERIOR CAT 6). REMOVED SIGN ML 49-W-AR-WB, STONE BACKFILL SP, LONGITUDINAL TINING SP, CONCRETE FOR STRUCTURES SP, CLASS C FLY ASH IN PORTLAND CEMENT CONCRETE PAVEMENT AND CLASS S(AE) CONCRETE SP, AND PAY ITEM E-NET CABLE (EXTERIOR CAT 5E).	2, 3, 11, 23, 24, 25, 28, 31, 34, 44, 45, 61, 74, 75, 93
10/23/2026	REVISED MOTORIST ASSISTANCE PATROL SP, WRECKER SERVICE SP, DETAILS FOR CROSS BEAM HAUNCH DIMENSIONS, AND PIER 10 JOINT ANNOTATION. ADDED PAYMENT NOTE FOR DECK DRAINS.	25, 52, 54, 61, 78

MeganLand 10/23/2026 9:47:24 AM
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REVISED DATE: $$REVDATE$$

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
⚠ 10/23/2026		6	ARK.	110812	52	107
		02899 - DECK REPLACEMENT - 69546				



COMPLETED CONSTRUCTION
(Looking Ahead)
½" = 1'-0"

Notes:
All reinforcing steel bars designated with an "E" suffix are to be AASHTO M 31 or M 322, Type A (fy = 60,000 psi) epoxy coated reinforcing steel.

All bars designated with a "C" suffix are to be AASHTO M334 M/ M 334, Type 1035 CS (fy = 100,000 psi) and conform to SP Job No. 110812 "LOW-CARBON CHROMIUM REINFORCING STEEL".

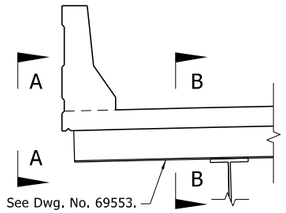
The cost of the Form Saver Mechanical Couplers shall not be measured for separate payment but shall be considered subsidiary to the item "LCCR REINFORCING STEEL-BRIDGE (GRADE 100)". Form Saver Mechanical Couplers shall develop at least 125% of the specified yield strength of the reinforcing steel.

All concrete shall conform to SP Job No. 110812 "LIGHTWEIGHT AGGREGATE CONCRETE (AE)" and shall be poured in the dry. All exposed corners to be chamfered ¾" unless otherwise noted.

The details shown are for use when removable deck forming is used and is the basis of measurement for "LIGHTWEIGHT AGGREGATE CONCRETE (AE)".

For concrete bridge rail details, see Dwg. No. 69552.

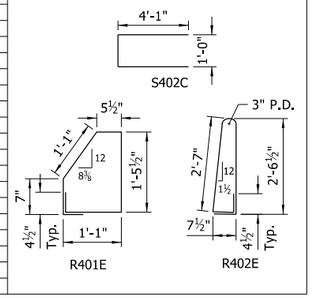
⚠ ① Haunch dimension shall be as required to maintain top of slab grade.



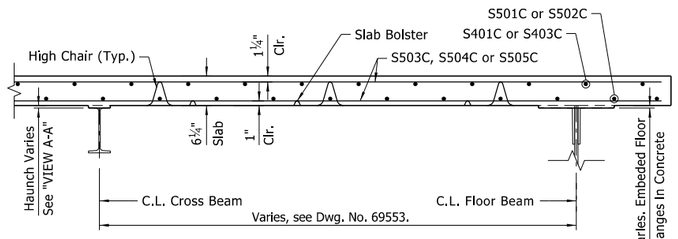
TYPICAL VIEW OF CROSS BEAMS AT OVERHANG ⚠

BAR LIST

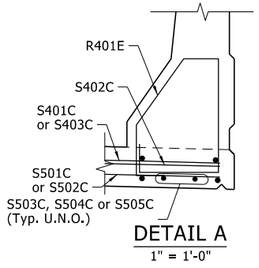
MARK	NO. REQ'D	LENGTH	PIN. DIA.	BENDING DIAGRAMS Dimensions are out-to-out of Bars.
S401C	3073	15'-1½"	Str.	
S402C	2922	9'-0"	3"	
S403C	3073	15'-3½"	Str.	
S501C	3049	15'-1½"	Str.	
S502C	3049	15'-4"	Str.	
S503C	272	44'-0"	Str.	
S504C	2856	45'-7"	Str.	
S505C	1428	59'-7"	Str.	
R401E	6640	5'-0"	2"	
R402E	6640	6'-4"	2"	
R403E	200	9'-0"	Str.	
R404E	168	6'-8"	Str.	
R405E	2592	8'-0"	Str.	
R601E	250	9'-0"	Str.	
R602E	210	6'-8"	Str.	
R603E	3240	8'-0"	Str.	



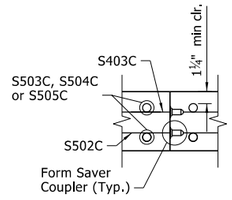
Notes:
All Bars designated with an "E" suffix are to be epoxy coated.
All Bars designated with an "C" suffix are to be AASHTO M334 M/ M 334, Type 1035 CS (fy = 100,000 psi) and conform to SP Job No. 110812 "LOW-CARBON CHROMIUM REINFORCING STEEL".
S401C, S403C, S501C and S502C bars to be threaded for Form Saver Mechanical Couplers.



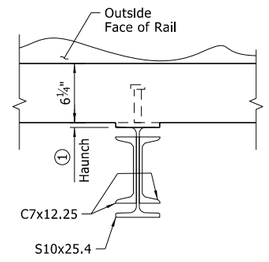
SECTION B-B ⚠
¾" = 1'-0"



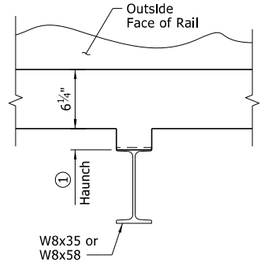
DETAIL A
1" = 1'-0"



DETAIL B
1½" = 1'-0"



(Existing Deck and Cross Beam orientation)



(New Deck and Cross Beam orientation)

VIEW A-A ⚠
3" = 1'-0"

⚠ Adjusted haunch dimensions.
By: MKL 10/23/2026
Checked by: SFH 10/23/2026

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.14501
STEPHEN F. HARPER
10/23/2026

BRIDGE ENGINEER
PRINT DATE: 10/23/2026

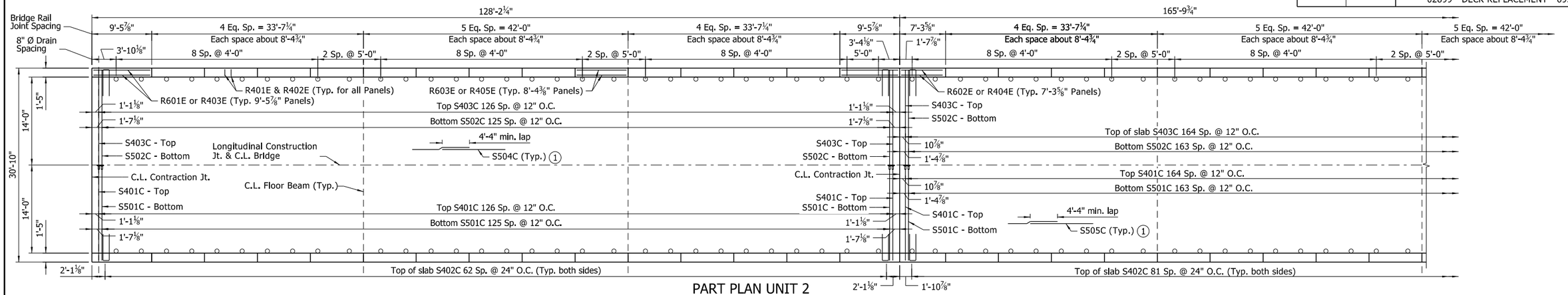
SHEET 3 OF 9
DETAILS OF DECK REPLACEMENT
ROUTE SECTION
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: DGL DATE: 03/2025 FILENAME: B110812_SX1.DGN
CHECKED BY: JSB/SFH DATE: 05/2026 SCALE: AS SHOWN
DESIGNED BY: MHA DATE: 03/2025

BRIDGE NO. 02899 DRAWING NO. 69546

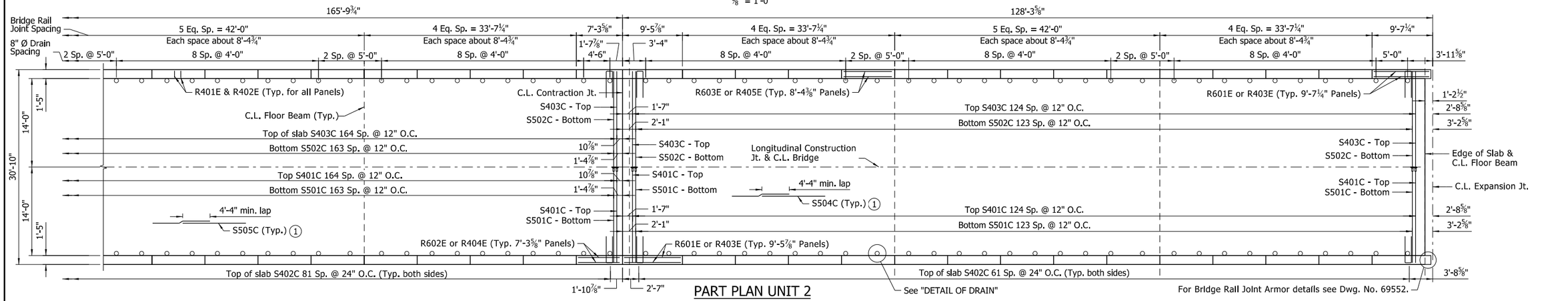
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REVISED DATE:

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
⚠ 10/23/2026		6	ARK.	110812	54	107
		02899 - DECK REPLACEMENT - 69548				



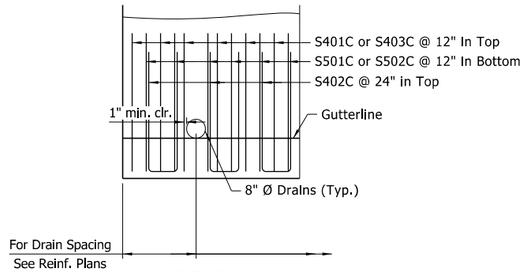
PART PLAN UNIT 2

⅛" = 1'-0"



PART PLAN UNIT 2

⅛" = 1'-0"

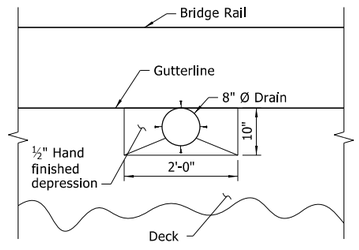


DETAIL A

No Scale

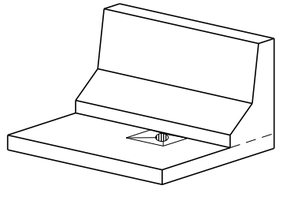
Rail spacing and joint depth shown are typical for both sides of roadway. For Reinforcing Details, see Dwg. No. 69552.

Adjust reinforcing steel as needed to provide 1" min. clearance to drain pipe.



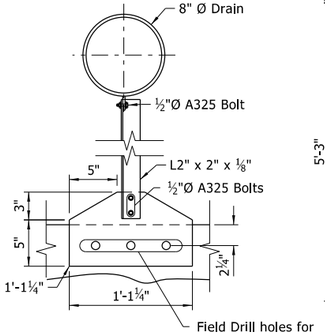
PLAN VIEW OF DRAIN

No Scale



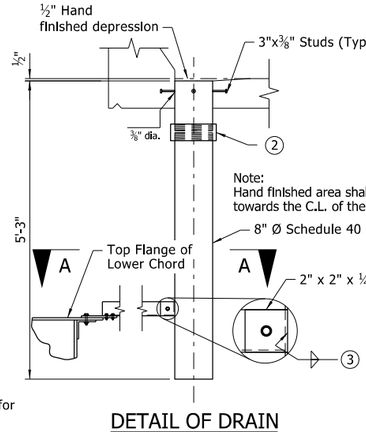
ISOMETRIC VIEW OF DRAIN

No Scale



VIEW A-A

No Scale



DETAIL OF DRAIN

No Scale

Notes:
The deck concrete shall be placed as a single pour from contraction joint to contraction joint.

Concrete in the bridge deck shall be placed, consolidated, and screeded off for the entire pour before any concrete has taken its initial set. This may require the use of a retarding agent.

A minimum of 72 hours shall elapse between the completion of the bridge deck and the start of the railing pour.

⚠ All Structural Steel required for drains shall be ASTM A709, Grade 36 unless noted otherwise, and shall be paid for as "STRUCTURAL STEEL IN TRUSS SPANS (A709, GR. 36)".

1 For exact placement of the reinforcing steel, see Dwg. No. 69546.

For Contraction Joint Details, see Dwg. No. 69554.

2 Optional Threaded Coupler

3 See "WELD TABLE" on Std. Dwg. No. 55007

⚠ Added payment note.
By: MKL 10/23/2026
Checked by: SFH 10/23/2026

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.14501
STEPHEN F. HARPER
10/23/2026

BRIDGE ENGINEER
PRINT DATE: 10/23/2026

SHEET 5 OF 9
DETAILS OF DECK REPLACEMENT
ROUTE SECTION

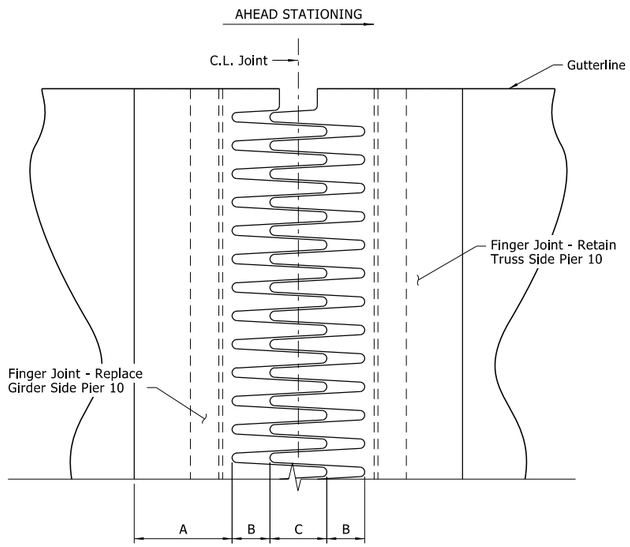
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

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CHECKED BY:	JSB/SFH	DATE:	05/2026	SCALE:	AS SHOWN
DESIGNED BY:	MHA	DATE:	03/2025		

BRIDGE NO. 02899 DRAWING NO. 69548

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REVISED DATE:

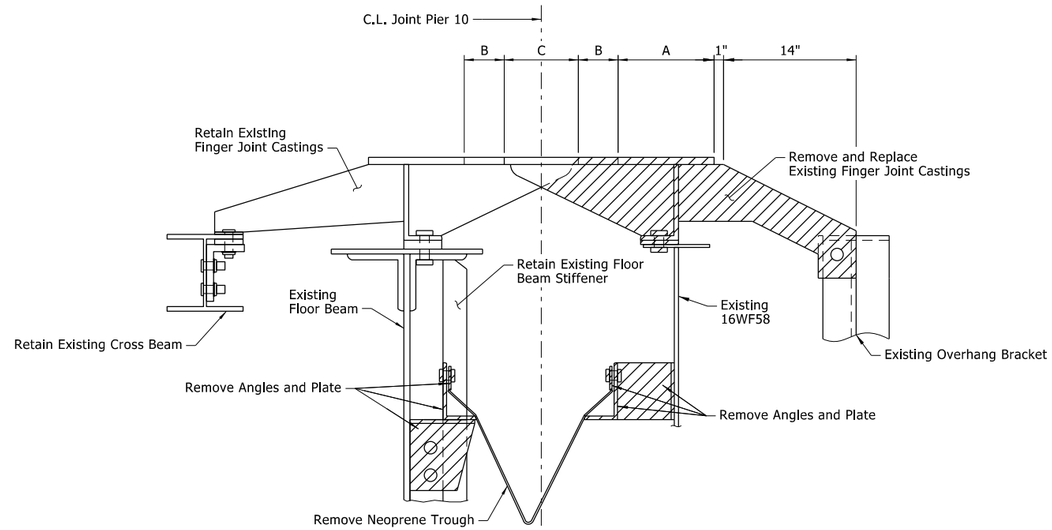
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
⚠1 10/19/2026		6	ARK.	110812	61	107
⚠2 10/23/2026						
		02899 - EXP. JOINT - 69555				



FINGER JOINT PLATE DETAILS

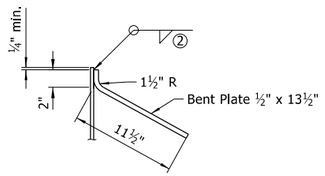
No Scale

LOCATION	A	"C Width Perpendicular to Joint at 24 Hour Average Temperature ① Of: 40°F	60°F	80°F
Pier 10	7¾"	4½"	4⅞"	5½"



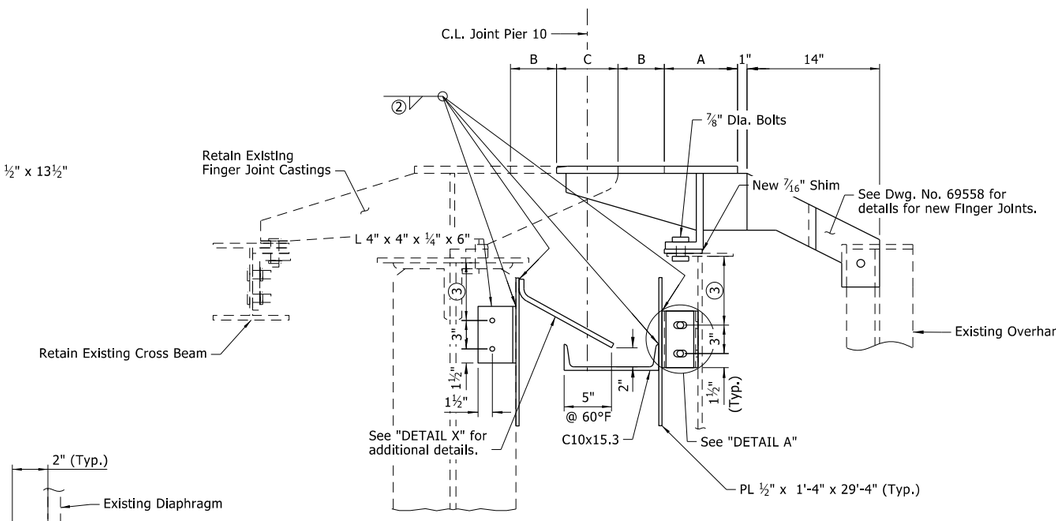
REMOVAL DETAILS OF JOINTS AT PIER 10

1½" = 1'-0"



DETAIL X

1½" = 1'-0"



CONSTRUCTION DETAILS OF JOINTS AT PIER 10

1½" = 1'-0"

Notes:
All repair dimensions and locations shall be field verified prior to performing the repair.

Top of Finger Joint shall conform to the profile grade of the roadway surfaces.

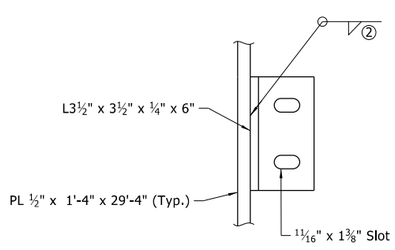
Drainage System is to be installed at a cross slope for proper water drainage out of the bridge.

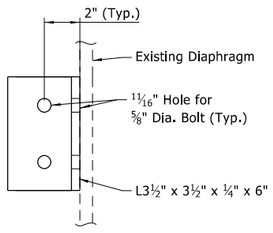
⚠1 All steel, unless noted otherwise, shall be ASTM A709, GR. 36. New Bent Plate and Channel (C10x15.3) shall be galvanized, AASHTO M111. Payment for all structural steel members in the truss spans shall be paid for as "STRUCTURAL STEEL IN TRUSS SPANS (A709, GR. 36)", and for all structural steel members in the approach spans shall be paid for as "STRUCTURAL STEEL IN PLATE GIRDER SPANS (A709, GR. 36)".

① The temperature used to set the joint opening shall be the approximate average air temperature during the 24 hour period immediately before the bolts are tightened. The engineer shall establish the temperature. Interpolation of the table may be necessary.

② See "WELD TABLE" on Std. Dwg. No. 55007.

③ Varies





DETAIL A

3" = 1'-0"

⚠1 Corrected galvanizing standard.
By: MKL 10/19/2026
Checked by: HSS 10/19/2026

⚠2 Corrected stationing direction.
By: MKL 10/23/2026
Checked by: HSS 10/23/2026

10/23/2026 Hussam Saleem

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.18919
HUSSAM S. SALEEM

BRIDGE ENGINEER
PRINT DATE: 10/23/2026

SHEET 1 OF 5
DETAILS OF MAIN TRUSS EXPANSION JOINTS AND DRAINAGE SYSTEMS

ROUTE SECTION

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: MHA DATE: 01/2025 FILENAME: B110812_JT.DGN
CHECKED BY: HSS DATE: 08/2025 SCALE: AS SHOWN
DESIGNED BY: MHA/LAC DATE: 08/2025

BRIDGE NO. 02899 DRAWING NO. 69555

Megan.Land 10/23/2026 9:42:43 AM
WORKSPACE: Personal
c:\users\public\mblpw\6\d022199\Bil082_JT.dgn
REVISED DATE:

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
⚠ 10/23/2026		6	ARK.	110812	78	107
		02899 - CROSS BEAMS - 69572				

⚠ Revised "SECTION A-A".
By: MKL 10/23/2026
Checked by: HSS 10/23/2026

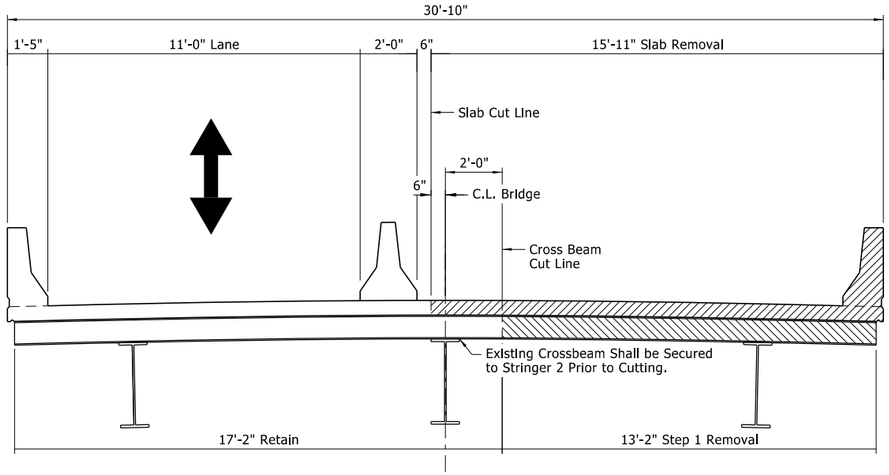
SEQUENCE OF CONSTRUCTION:

STEP 1. After removing the first section of the deck (Stage 1 Construction), secure the existing cross beam to Stringer 2, then cut the existing cross beam as shown in "STEP 1".

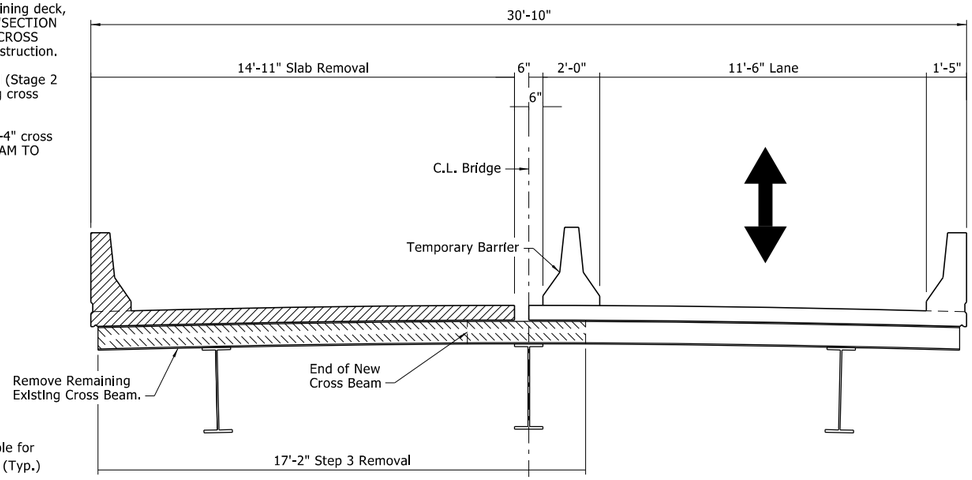
STEP 2. Slide the new 17'-4" cross beam beneath the remaining deck, parallel to the existing cross beam. Refer to "STEP 2" and "SECTION A-A" for details. Secure cross beam to stringers. Refer to "CROSS BEAM TO STRINGER CONNECTION". Complete Stage 1 Construction.

STEP 3. Once the remaining section of the deck is removed (Stage 2 Construction), remove the remaining portion of the existing cross beam.

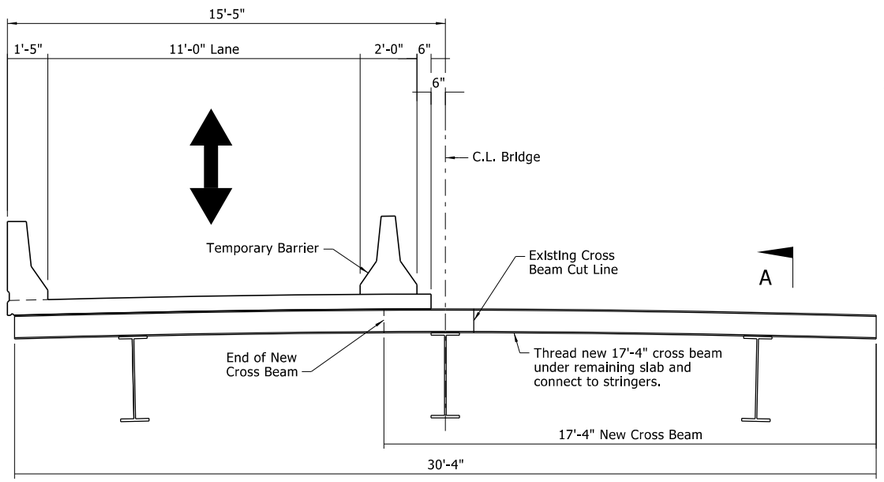
STEP 4. Field splice new 13'-0" cross beam to "STEP 2" 17'-4" cross beams. Secure cross beam to stringer. Refer to "CROSS BEAM TO STRINGER CONNECTION". Complete Stage 2 Construction.



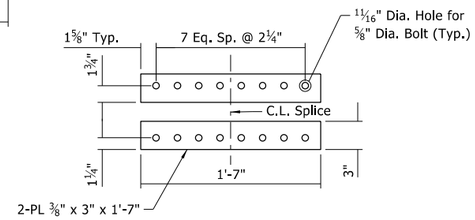
STEP 1



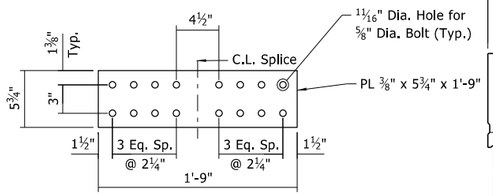
STEP 3



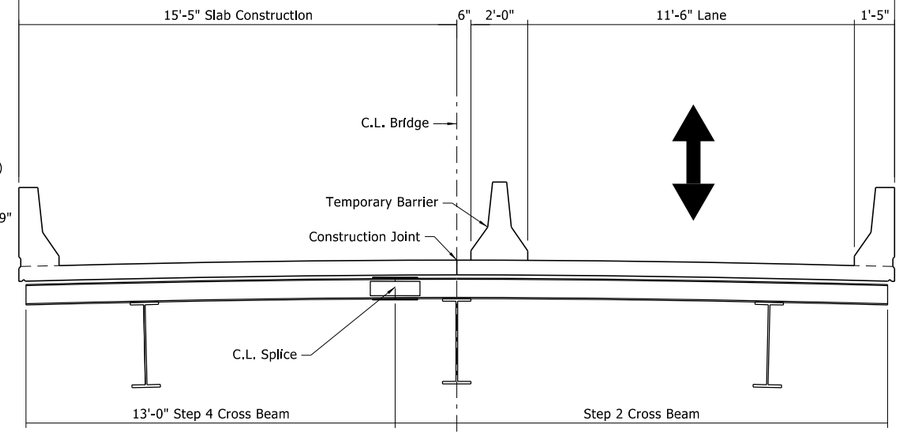
STEP 2



INNER & OUTER FLANGE SPLICE DETAIL
1½" = 1'-0"



WEB SPLICE DETAIL
1½" = 1'-0"



STEP 4

Notes:
Existing Cross Beam shall be bolted to Stringer 2 prior to cutting the existing Cross Beam as shown in "STEP 1".

New Cross Beams profile shall match the parabolic profile of the existing Cross Beams to ensure new Deck matches existing thickness and profile.

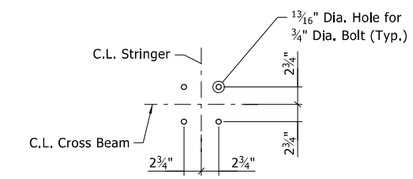
New Cross Beams shall be placed offset from the existing such that the maximum spacing of the Cross Beams does not exceed 4'-2", this may require an additional Cross Beam at select locations. Pour new slab after new cross beam is secured in place.

See Dwg. No. 69553 for locations of Cross Beam replacements.

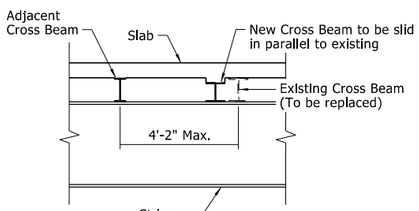
All work and materials required for this repair shall be paid for as "REPAIR TYPE H: CROSS BEAM REPLACEMENT". For additional information see SP Job No. 110812 "BRIDGE STRUCTURAL STEEL REPAIRS".

All Splice Plates shall use ⅝" dia. bolts, ASTM F3125, Grade A325.

This repair item is not intended for the replacement of ALL cross beams. If the Contractor damages the cross beams during concrete deck removal, replacement and payment shall be considered for approval by the Engineer but shall NOT be paid for as Repair Type H. The additional work shall be negotiated at a reduced unit price.



CROSS BEAM TO STRINGER CONNECTION
1" = 1'-0"



SECTION A-A ⚠
No Scale

REPAIR H

Cross Beam Type	New Shape	Number of Replacements
CB1	W8x35	32
CB2	W8x58	19

CB1 - Cross Beam Type 1 - Refers to existing 10 I 25.4.
CB2 - Cross Beam Type 2 - Refers to existing 10 WF 39.

10/23/2026
Hussam Saleem

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.18919
HUSSAM S. SALEEM

BRIDGE ENGINEER
PRINT DATE: 10/23/2026

DETAILS OF REPAIR TYPE H - CROSS BEAM REPLACEMENT

ROUTE SECTION

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: MKL DATE: 03/2025 FILENAME: B110812_CB1.DGN
CHECKED BY: HSS DATE: 10/2025 SCALE: ⅜" = 1'-0"
DESIGNED BY: MKL DATE: 03/2025

BRIDGE NO. 02899 DRAWING NO. 69572

10/23/2026 9:42:49 AM
MeganLand
WORKSPACE: Personal
c:\users\public\mblpw\6\d0222199\B10812_CB1.dgn
REVISED DATE: