

MaponLand 10/19/2026 12:34:45 PM
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REVISED DATE: \$*REVIDATE\$*

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
10/19/2026		6	ARK.	110812	2	107
		INDEX OF SHEETS AND STANDARD DRAWINGS				

INDEX OF SHEETS

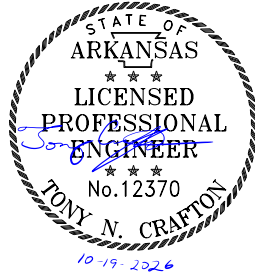
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107	DETAILS OF TYPE SPECIAL APPROACH GUTTER	02899	69601

BRIDGE STANDARD DRAWINGS

DRWG.NO.	TITLE	DATE
55006	STANDARD GENERAL NOTES FOR STEEL BRIDGE STRUCTURES	09-02-15
55007	STANDARD DETAILS FOR STEEL BRIDGE STRUCTURES	02-11-16
55040F1	STANDARD DETAILS FOR TYPE F APPROACH SLAB	09-07-23

ROADWAY STANDARD DRAWINGS

DRWG.NO.	TITLE	DATE
GR-6	GUARDRAIL DETAILS	05-19-22
GR-8	GUARDRAIL DETAILS	11-07-19
GR-9	GUARDRAIL DETAILS	11-07-19
GR-10	GUARDRAIL DETAILS	11-07-19
GR-11	GUARDRAIL DETAILS	11-07-19
GR-12	GUARDRAIL DETAILS	05-14-20
PM-1	PAVEMENT MARKING DETAILS	04-09-26
PU-1	DETAILS OF PIPE UNDERDRAIN	12-08-16
SD-6	HEAVY DUTY PULL BOX	02-13-24
SHS-3	DETAIL OF BREAKAWAY SIGN SUPPORTS FOR GUIDE SIGNS	05-19-22
SHS-4	DETAIL OF BREAKAWAY SIGN SUPPORTS FOR STANDARD SIGNS	09-12-13
TC-1	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	08-14-25
TC-1A	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	04-09-26
TC-2	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	08-14-25
TC-3	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	08-14-25
TC-4	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION-TEMPORARY PRECAST BARRIER	11-07-19
TC-5	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION-TEMPORARY PRECAST BARRIER	11-07-19
TC-6	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	04-09-26
TEC-1	TEMPORARY EROSION CONTROL DEVICES	11-16-17



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		GOVERNING SPECIFICATIONS & GENERAL NOTES				

GOVERNING SPECIFICATIONS

ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2014, AND THE FOLLOWING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS:

NUMBER	TITLE
ERRATA ____	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273 ____	REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273 ____	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS
FHWA-1273 ____	SUPPLEMENT - SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
FHWA-1273 ____	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - GOALS AND TIMETABLES
FHWA-1273 ____	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - FEDERAL STANDARDS
FHWA-1273 ____	SUPPLEMENT - POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
FHWA-1273 ____	SUPPLEMENT - WAGE RATE DETERMINATION
FHWA-1273 ____	SUPPLEMENT - TRAINING PROGRAM - JOB NUMBER 110812
100-3 ____	CONTRACTOR'S LICENSE
100-4 ____	DEPARTMENT NAME CHANGE
102-2 ____	ISSUANCE OF PROPOSALS
102-3 ____	PREQUALIFICATION OF BIDDERS
103-2 ____	CONTACT INFORMATION FOR MOTORIST DAMAGE CLAIMS
105-4 ____	MAINTENANCE DURING CONSTRUCTION
107-2 ____	RESTRAINING CONDITIONS
108-1 ____	LIQUIDATED DAMAGES
210-1 ____	UNCLASSIFIED EXCAVATION
303-1 ____	AGGREGATE BASE COURSE
306-1 ____	QUALITY CONTROL AND ACCEPTANCE
307-2 ____	CEMENT TREATED BASE COURSE
308-2 ____	CEMENT STABILIZED CRUSHED STONE BASE COURSE
400-1 ____	TACK COATS
400-4 ____	DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
400-5 ____	PERCENT AIR VOIDS FOR ACHM MIX DESIGNS
400-6 ____	LIQUID ANTI-STRIP ADDITIVE
400-7 ____	TRACKLESS TACK
404-3 ____	DESIGN OF ASPHALT MIXTURES
409-2 ____	ASPHALT LABORATORY FACILITY
410-1 ____	CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF ASPHALT CONCRETE PLANT MIX COURSES
410-2 ____	DEVICES FOR MEASURING DENSITY FOR ROLLING PATTERNS
410-4 ____	EVALUATION OF ACHM SUBLOT REPLACEMENT MATERIAL
416-1 ____	RECYCLED ASPHALT PAVEMENT
501-3 ____	PORTLAND CEMENT CONCRETE PAVEMENT
502-1 ____	WELDED WIRE REINFORCEMENT
600-2 ____	INCIDENTAL CONSTRUCTION
603-1 ____	LANE CLOSURE NOTIFICATION
604-1 ____	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
604-3 ____	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES (MASH)
617-1 ____	GUARDRAIL TERMINAL (TYPE 2)
617-2 ____	GUARDRAIL DELINEATORS
620-1 ____	MULCH COVER
621-1 ____	FILTER SOCKS
700-2 ____	TRAFFIC CONTROL FACILITIES
723-1 ____	GENERAL REQUIREMENTS FOR SIGNS
729-1 ____	CHANNEL POST SIGN SUPPORT
730-1 ____	BREAKAWAY SIGN SUPPORT
800-1 ____	STRUCTURES
802-3 ____	CONCRETE FOR STRUCTURES
802-5 ____	CONCRETE FOR STRUCTURES
804-2 ____	REINFORCING STEEL FOR STRUCTURES
807-2 ____	STEEL STRUCTURES
808-1 ____	INSTALLATION OF ELASTOMERIC BEARINGS
808-2 ____	ELASTOMERIC BEARINGS
JOB 110812 ____	AIRWAY OBSTRUCTION LIGHTING SYSTEM
JOB 110812 ____	ASPHALT MIXTURES WITH PG 76-22 BINDER
JOB 110812 ____	ASSESSMENT OF WORKING DAYS – MAINTENANCE OF TRAFFIC
JOB 110812 ____	BARRIER WALL DELINEATOR
JOB 110812 ____	BIDDING REQUIREMENTS AND CONDITIONS
JOB 110812 ____	BRIDGE DECK REPAIR FOR POLYMER OVERLAYS
JOB 110812 ____	BRIDGE JACKING AND TEMPORARY FALSEWORK FOR BEARING REPLACEMENTS
JOB 110812 ____	BRIDGE MOUNTED GALVANIZED STEEL CONDUIT SYSTEM
JOB 110812 ____	BRIDGE POST MOUNTED SIGN SUPPORT
JOB 110812 ____	BRIDGE STRUCTURAL STEEL REPAIRS
JOB 110812 ____	BROADBAND INTERNET SERVICE & FLOOD PLAIN REQUIREMENTS FOR FIELD OFFICE
JOB 110812 ____	BUY AMERICA - CONSTRUCTION MATERIALS
JOB 110812 ____	CARGO PREFERENCE ACT REQUIREMENTS
JOB 110812 ____	CLEANING AND PAINTING EXISTING STRUCTURAL STEEL
JOB 110812 ____	COLD MILLING – MILL & INLAY
JOB 110812 ____	COMPACTED EMBANKMENT
JOB 110812 ____	CONCRETE BRIDGE DECK CURING AND SURFACE TREATMENT RESTRICTIONS
JOB 110812 ____	CONSTRUCTION PROJECT INFORMATION SIGN
JOB 110812 ____	CONTAINMENT SYSTEM
JOB 110812 ____	CONTRACTOR CERTIFICATION
JOB 110812 ____	COORDINATION OF WORK
JOB 110812 ____	CRACK ARREST HOLES FOR BRIDGE STRUCTURAL STEEL
JOB 110812 ____	DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
JOB 110812 ____	DIRECT TENSION INDICATORS FOR HIGH STRENGTH BOLT ASSEMBLIES
JOB 110812 ____	DOCUMENTATION OF PAYMENTS MADE - PROMPT PAYMENT (SIGNET)
JOB 110812 ____	ELECTRICAL CONDUCTORS-IN-CONDUIT
JOB 110812 ____	FLEXIBLE BEGINNING OF WORK – CALENDAR DAY CONTRACT
JOB 110812 ____	INSPECTOR'S PERSONAL PROTECTION CLOTHING
JOB 110812 ____	ITS ELECTRICAL JUNCTION BOX, METALLIC
JOB 110812 ____	ITS EQUIPMENT CABINETS

GOVERNING SPECIFICATIONS (CONTINUED)

JOB 110812_ LIGHTWEIGHT AGGREGATE CONCRETE (AE)
JOB 110812_ LIQUIDATED DAMAGES PROCEDURE FOR BID LETTINGS
JOB 110812_ LOCAL WORK ZONE LAW ENFORCEMENT
JOB 110812_ LOW-CARBON CHROMIUM REINFORCING STEEL
JOB 110812_ MAINTENANCE OF TRAFFIC
JOB 110812_ MANDATORY ELECTRONIC CONTRACT
JOB 110812_ MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB 110812_ MOTORIST ASSISTANCE PATROL
JOB 110812_ NAVIGATION LIGHTING SYSTEM
JOB 110812_ NESTING SITES OF MIGRATORY BIRDS
JOB 110812_ NETWORKING EQUIPMENT
JOB 110812_ PAN-TILT-ZOOM CAMERA SYSTEM
JOB 110812_ PARTNERING REQUIREMENTS
JOB 110812_ POLYMER OVERLAY
JOB 110812_ PORTABLE CAMERA TRAILERS
JOB 110812_ PORTABLE TRAFFIC SIGNAL SYSTEM WITH TRAFFIC TIMER UNITS - COUNTDOWN
JOB 110812_ PRECAST CONCRETE BARRIER (TYPE SPECIAL)
JOB 110812_ PREFORMED SILICONE JOINT SEAL
JOB 110812_ PRICE ADJUSTMENT FOR ASPHALT BINDER
JOB 110812_ PRICE ADJUSTMENT FOR FUEL
JOB 110812_ PRIME CONTRACTOR PERFORMANCE EVALUATION
JOB 110812_ PROHIBITION OF CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT
JOB 110812_ PROSECUTION AND PROGRESS WITH BID SCHEDULE
JOB 110812_ RADIO INTERCONNECT SYSTEM
JOB 110812_ REQUIREMENTS OF U.S. COAST GUARD PERMIT
JOB 110812_ ROAD WEATHER INFORMATION SYSTEM (RWIS)
JOB 110812_ SEQUENCE OF CONSTRUCTION - ALTERNATE CONCEPTUAL PROPOSAL (ACP)
JOB 110812_ SHORING
JOB 110812_ SITE USE (A+C METHOD) – CALENDAR DAY CONTRACT
JOB 110812_ SPECIAL SAFETY REQUIREMENTS FOR BRIDGES
JOB 110812_ STEEL PLATE CONNECTION PREPARATION
JOB 110812_ STRUCTURAL STEEL SHORING
JOB 110812_ SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB 110812_ TRAFFIC CONTROL SUPERVISOR
JOB 110812_ TRENCHING AND SHOULDER PREPARATION FOR TEMPORARY WIDENING
JOB 110812_ UTILITY ADJUSTMENTS
JOB 110812_ VALUE ENGINEERING
JOB 110812_ VARIABLE MESSAGE SIGN SYSTEM
JOB 110812_ VENDOR REGISTRATION REQUIREMENT
JOB 110812_ WARM MIX ASPHALT
JOB 110812_ WATER POLLUTION CONTROL
JOB 110812_ WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
JOB 110812_ WRECKER SERVICE

GENERAL NOTES

- ALL PIPE LINES, POWER, TELEPHONE, AND TELEGRAPH LINES TO BE MOVED OR LOWERED BY THE RESPECTIVE OWNERS AS PER AGREEMENT WITH SUCH OWNERS.
- ANY EQUIPMENT OR APPURTENANCE THAT INTERFERES WITH THE PROPOSED CONSTRUCTION AND WHICH MAY BE THE PROPERTY OF UTILITY SERVICE ORGANIZATIONS SHALL BE MOVED BY THE OWNERS UNLESS OTHERWISE PROVIDED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING U. S. MAILBOXES WITHIN THE PROJECT LIMITS IN SUCH A MANNER THAT THE PUBLIC MAY RECEIVE CONTINUED MAIL SERVICE. PAYMENT WILL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE VARIOUS BID ITEMS.
- ALL LAND MONUMENTS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE STANDARD SPECIFICATIONS.
- ALL TREES THAT DO NOT DIRECTLY INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE SPARED AS DIRECTED BY THE ENGINEER. CARE AND DISCRETION SHALL BE USED TO ENSURE THAT ALL TREES NOT TO BE REMOVED SHALL BE HARMED AS LITTLE AS POSSIBLE DURING THE CONSTRUCTION OPERATIONS.
- THE SEQUENCE AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS IS A GENERAL OUTLINE FOR THE CONSTRUCTION OF THIS PROJECT, AND IN NO WAY IS IT INTENDED TO COVER EVERY ITEM IN THE PROJECT. ITEMS NOT CRITICAL TO THE CONSTRUCTION SEQUENCE MAY BE CONSTRUCTED IN ANY STAGE AS APPROVED BY THE RESIDENT ENGINEER.
- THE EXISTING ASPHALT PAVEMENT TO BE REMOVED FROM THE REMAINING PAVEMENT SHALL BE SEPARATED BY SAWING ALONG A NEAT LINE. AFTER SAWING, THE PAVEMENT TO BE REMOVED SHALL BE CAREFULLY REMOVED IN A MANNER THAT WILL NOT DAMAGE THE PAVEMENT THAT IS TO REMAIN. ANY DAMAGE OF THE ASPHALT PAVEMENT THAT IS TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.



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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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QUANTITIES						



LOG MILE	LOG MILE	LOCATION	LENGTH	TACK COAT				ACHM SURFACE COURSE (1/2")								
				(0.10 GAL. PER SQ. YD.)			TOTAL GALLONS	AVG. WID.	SQ.YD.	POUND / SQ.YD.	PG 76-22	AVG. WID.	SQ.YD.	POUND / SQ.YD.	PG 76-22	TOTAL PG 76-22
				TOTAL WID.	SQ.YD.	GALLON										
0.543	0.562	HWY. 49 MAIN LANES	100.00	31.67	351.89	35.19	35.19					31.67	351.89	220.00	38.71	38.71
1.562	1.686	HWY. 49 MAIN LANES	654.72	52.25	3801.01	380.10	380.10					52.25	3801.01	220.00	418.11	418.11
1.686	1.706	HWY. 49 MAIN LANES	105.60	69.50	815.47	81.55	81.55					69.50	815.47	220.00	89.70	89.70
ADDITIONAL FOR MAINTENANCE OF TRAFFIC																
0.543	0.568	HWY. 49 LT. OF MAIN LANES	132.00					2.00	29.33	220.00	3.23	2.00	29.33	220.00	3.23	6.46
0.543	0.568	HWY. 49 RT. OF MAIN LANES	132.00					2.00	29.33	220.00	3.23	2.00	29.33	220.00	3.23	6.46
1.554	1.579	HWY. 49 LT. OF MAIN LANES	132.00					2.00	29.33	220.00	3.23	2.00	29.33	220.00	3.23	6.46
1.554	1.579	HWY. 49 RT. OF MAIN LANES	132.00					2.00	29.33	220.00	3.23	2.00	29.33	220.00	3.23	6.46
TOTALS:					4968.37	496.84	496.84		117.32		12.92		5085.69		559.44	572.36

BASIS OF ESTIMATE:
ACHM SURFACE COURSE (1/2").....94.0% MIN. AGGR.....6.0% ASPHALT BINDER
TACK COAT QUANTITIES WERE CALCULATED USING THE EMULSIFIED ASPHALT RATES. REFER TO SS-400-1 FOR THE RESIDUAL ASPHALT APPLICATION RATES.
ADDITIONAL TACK COAT FOR MAINTENANCE OF TRAFFIC IS ACCOUNTED FOR WITH THE CONCRETE BASE

LOCATION	FURNISH AND INSTALL VARIABLE MESSAGE SIGN	*VMSS OPERATION	VMSS MOBILIZATION	*DEVICE RELOCATION
	EACH	MONTHS	LUMP SUM	EACH
NORTHBOUND HWY. 49 SOUTH OF HWY. 49 INTERSECTION	1			
SOUTHBOUND HWY. 49B NORTH OF HWY. 49 INTERSECTION	1			
NORTHBOUND HWY. 1 SOUTH OF HWY. 49 INTERSECTION	1			
WESTBOUND HWY. 49 EAST OF HWY. 1 INTERSECTION	1			
* ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER				
TOTALS:		4	36	1.00

* QUANTITY ESTIMATED.
SEE SECTION 104.03 OF THE STD. SPECS.

EROSION CONTROL														
STATION	STATION	LOCATION	PERMANENT EROSION CONTROL					TEMPORARY EROSION CONTROL						
			SEEDING	LIME	MULCH COVER	WATER	SECOND SEEDING APPLICATION	TEMPORARY SEEDING	MULCH COVER	WATER	WATTLE (20") DITCH CHECKS	FILTER SOCK ALONG SLOPE	ROCK DITCH CHECKS	*SEDIMENT REMOVAL & DISPOSAL
											(E-1) LIN. FT.	(E-3) LIN. FT.	(E-6) CU.YD.	CU. YD.
*ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.			0.50	1.00	0.50	51.0	0.50	0.50	10.2	54	1584	18	12	
TOTALS:			0.50	1.00	0.50	51.0	0.50	0.50	10.2	54	1584	18	12	

BASIS OF ESTIMATE:
LIME 2 TONS / ACRE OF SEEDING
WATER.....102.0 M.G. / ACRE OF SEEDING
WATER.....20.4 M.G. / ACRE OF TEMPORARY SEEDING
WATTLE DITCH CHECKS.....9 LIN. FT. / LOCATION
ROCK DITCH CHECKS.....3 CU.YD./LOCATION

NOTE: THE TEMPORARY EROSION CONTROL DEVICES SHOWN ABOVE AND ON THE PLANS SHALL BE INSTALLED IN SUCH A SEQUENCE AS TO DETER EROSION AND SEDIMENTATION ON U.S. WATERWAYS AS EXPLAINED BY THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT.

*QUANTITIES ESTIMATED.
SEE SECTION 104.03 OF THE STD. SPECS.

WRECKER SERVICE	
LOCATION / DESCRIPTION	WRECKER SERVICE
	LUMP SUM
ENTIRE JOB	1
TOTALS:	1

MOTORIST ASSISTANCE PATROL	
LOCATION / DESCRIPTION	MOTORIST ASSISTANCE PATROL
	LUMP SUM
ENTIRE JOB	1
TOTALS:	1

LOG MILE	LOCATION	9" U.T.
		SQ. YD.
0.561	HWY. 49 WEST APPROACH	16.00
1.561	HWY. 49 EAST APPROACH	16.00
TOTAL:		32.00

NOTE: QUANTITY ESTIMATED.
SEE SECTION 104.03 OF THE STD. SPECS.

LOG MILE	LOGMILE	LOCATION	CONCRETE PAVEMENT	GUARDRAIL	APPROACH GUTTERS AND SLABS
		C.L. HWY. 49	SQ. YD.	LIN. FT.	EACH
0.565	0.569	HWY. 49 WEST APPROACH			1
1.554	1.558	HWY. 49 EAST APPROACH			1
0.561	0.561	HWY. 49 WEST APPROACH	16		
1.561	1.561	HWY. 49 EAST APPROACH	16		
1.560	1.712	HWY. 49 RT.		801	
1.560	1.712	HWY. 49 LT.		803	
TOTALS:			32	1604	2

NOTE: THE QUANTITY SHOWN ABOVE FOR THE REMOVAL AND DISPOSAL OF GUARDRAIL SHALL INCLUDE THE REMOVAL AND DISPOSAL OF ALL GUARDRAIL TERMINALS AND TERMINAL ANCHOR POSTS.

LOG MILE	LOG MILE	LOCATION	BARRIER WALL DELINEATOR
			EACH
0.569	1.554	STAGE 1 LT. BRIDGE RAIL	1.040
0.569	1.554	STAGE 2 RT. BRIDGE RAIL	1.040
TOTAL:			2.080

LOG MILE	LOG MILE	LOCATION	APPROACH GUTTER (TYPE SPECIAL)	APPROACH SLABS (TYPE F)	REINFORCING STEEL-RDWY. (GR. 60)	AGGREGATE BASE CRS. (CLASS 7)
			CU.YD.	CU.YD.	POUND	TON
			9.42	47.40	6268	41.29
0.562	0.569	HWY. 49				
1.554	1.561	HWY. 49	9.42	47.40	6268	41.29
TOTALS:			18.84	94.80	12536	82.58

LOG MILE	LOG MILE	LOCATION	LENGTH	AVG. WIDTH	COLD MILLING ASPHALT PAVEMENT
			FEET	FEET	SQ. YD.
			94.00	30.00	313.33
0.543	0.561	MAIN LANES			
1.562	1.686	MAIN LANES	654.72	52.25	3801.01
1.686	1.706	MAIN LANES	105.60	69.50	815.47
TOTAL:					4929.81

NOTE: COORDINATE COLD MILLING STOCKPILE LOCATIONS WITH DISTRICT ENGINEER.
STOCKPILE LOCATIONS SHALL BE NO FARTHER THAN FIVE MILES FROM EACH SITE.

LOG MILE	LOG MILE	LOCATION	LENGTH	TACK COAT 0.05 GAL. PER SQ. YD.			PORTLAND CEMENT CONCRETE BASE	
				AVG. WID.	SQ. YD.	GAL.	AVG. WID.	10" U.T.
				FEET			FEET	SQ. YD.
				132.00	2.00	29.33	1.47	2.00
0.543	0.568	HWY. 49 LT. OF MAIN LANES						29.33
0.543	0.568	HWY. 49 RT. OF MAIN LANES	132.00	2.00	29.33	1.47	2.00	29.33
1.554	1.579	HWY. 49 LT. OF MAIN LANES	132.00	2.00	29.33	1.47	2.00	29.33
1.554	1.579	HWY. 49 RT. OF MAIN LANES	132.00	2.00	29.33	1.47	2.00	29.33
TOTALS:					117.32	5.88		117.32

BASIS OF ESTIMATE:
TACK COAT QUANTITIES WERE CALCULATED USING THE EMULSIFIED ASPHALT RATES. REFER TO SS-400-1 FOR THE RESIDUAL ASPHALT APPLICATION RATES.

LOG MILE	LOG MILE	LOCATION	GUARDRAIL (TYPE A)	THRIE BEAM GUARDRAIL TERMINAL	GUARDRAIL TERMINAL (TYPE 2)
		C.L. HWY. 49	LIN. FT.	EACH	
1.554	1.704	RT. OF C.L.	725.00	1	1
1.554	1.704	LT. OF C.L.	725.00	1	1
TOTALS:			1450	2	2

LOG MILE	LOCATION / DESCRIPTION	UNCLASSIFIED EXCAVATION	COMPACTED EMBANKMENT
		CU. YD.	
		25	16
0.543	HWY. 49 WEST ABUTMENT BACKWALL REPAIR		
TOTALS:		25	16

NOTE: EARTHWORK QUANTITIES SHALL BE PAID AS PLAN QUANTITY.

QUANTITIES

MeconLand 10/19/2026 12:35:21 PM
WORKSPACE: Personal
c:\user\s\public\mbipw\6\d022299\B110812_QX1.dgn
REVISED DATE:

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
10/19/2026		6	ARK.	110812	24	107
		02899 - QUANTITIES - 69536				

SCHEDULE OF BRIDGE QUANTITIES - JOB 110812

BRIDGE NUMBER	UNIT OF STRUCTURE	ITEM NUMBER	SP, SS, & 802	SP, SS, & 802	SP & 803	SP, SS, & 804	SS & 804	SP, SS, & 807	SP, SS, & 807	SP, SS, & 807	SP, SS, & 807	SS & 808	SP & 820	SP & 820	821	SP JOB 110812	SP JOB 110812	SP JOB 110812
		ITEM	CLASS S CONCRETE - BRIDGE	CLASS S(AE) CONCRETE - BRIDGE	CLASS 2 PROTECTIVE SURFACE TREATMENT	LCCR REINFORCING STEEL-BRIDGE (GRADE 100)	EPOXY COATED REINFORCING STEEL (GRADE 60)	STRUCTURAL STEEL IN PLATE GIRDER SPANS (A709, GR. 36)	STRUCTURAL STEEL IN PLATE GIRDER SPANS (A709, GR. 50W)	STRUCTURAL STEEL IN TRUSS SPANS (A709, GR 36)	STRUCTURAL STEEL IN TRUSS SPANS (A709, GR. 50W)	ELASTOMERIC BEARINGS	CLEANING AND PAINTING EXISTING STRUCTURAL STEEL (TYPE II)	DISPOSAL OF HAZARDOUS WASTE (SITE NO. 1)	MODIFICATION OF EXISTING BRIDGE STRUCTURE (BRIDGE NO. 02899)	BRIDGE DECK REPAIR FOR POLYMER OVERLAYS	BRIDGE JACKING (SITE NO. 1)	CRACK ARREST HOLE
		UNIT	CU. YD.	CU. YD.	SQ. YDS.	POUND	POUND	POUND	POUND	POUND	POUND	CU. IN.	TON	LUMP SUM	LUMP SUM	SQ. FT.	LUMP SUM	EA.
02899	WEST ABUTMENT		11.80		5.9		1,938	1,373									0.5	
	EAST ABUTMENT							1,389									0.5	
	WEST APPROACH SPANS			2.50	2.5		1,698 ①	19,227	2,480			2,448.0	521.7	0.3		1,680.7 ①		
	MAIN TRUSS SPANS				2,301.4	413,880	110,486		267,350	3,870			5,587.6	0.5				1
	EAST APPROACH SPANS						1,057 ①	11,633	1,240			3,274.0	374.7	0.2		1,243.2 ①		
TOTALS FOR JOB NO. 110812			11.80	2.50	2,309.8	413,880	115,180	33,630	3,720	267,350	3,870	5,722.0	6,484.0	1.0	1.0 ②	2,923.9 ①	1.0	1

BRIDGE NUMBER	UNIT OF STRUCTURE	ITEM NUMBER	SP JOB 110812	SP JOB 110812	SP JOB 110812	SP JOB 110812	SP JOB 110812	SP JOB 110812	SP JOB 110812	SP JOB 110812	SP JOB 110812	SP JOB 110812	SP JOB 110812	SP JOB 110812	SP JOB 110812	SP JOB 110812	SP JOB 110812	SP JOB 110812
		ITEM	LIGHTWEIGHT AGGREGATE CONCRETE (AE)	POLYMER OVERLAY	PREFORMED SILICONE JOINT	REPAIR TYPE A: FLOOR BEAM TOP FLANGE	REPAIR TYPE B: FLOOR BEAM BOTTOM FLANGE	REPAIR TYPE C: FLOOR BEAM WEB	REPAIR TYPE D: FLOOR BEAM STIFFENER	REPAIR TYPE E: STRINGER PIN AND HANGER	REPAIR TYPE F: RIVET REPLACEMENTS	REPAIR TYPE G: STRINGER CONNECTION ANGLE REPLACEMENT	REPAIR TYPE H: CROSS BEAM REPLACEMENT	SHORING (SITE NO. 1)	SHORING TYPE 1: MAIN TRUSS SPANS FLOOR BEAM	SHORING TYPE 2: MAIN TRUSS SPANS WIND LOCK	SHORING TYPE 3: MAIN TRUSS SPANS STRINGER	SHORING TYPE 4: APPROACH SPANS FLOOR BEAM
		UNIT	CU. YD.	SQ. YD.	LIN. FT.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM
02899	WEST ABUTMENT													1.0				
	EAST ABUTMENT																	
	WEST APPROACH SPANS			3,734.9														0.3
	MAIN TRUSS SPANS		2,552.20	9,669.4	596	1	11	10	48	9	550	2	51		1.0	1.0	1.0	
	EAST APPROACH SPANS			2,762.7														0.7
TOTALS FOR JOB NO. 110812			2,552.20	16,167.0	596	1	11	10	48	9	550 ①③	2	51	1.0	1.0	1.0	1.0	1.0

BRIDGE NUMBER	UNIT OF STRUCTURE	ITEM NUMBER	SP JOB 110812	SP JOB 110812
		ITEM	SHORING TYPE 5: APPROACH SPANS WIND LOCK	TEMPORARY FALSEWORK (SITE NO. 1)
		UNIT	LUMP SUM	LUMP SUM
02899	WEST ABUTMENT			0.5
	EAST ABUTMENT			0.5
	WEST APPROACH SPANS		1.0	
	MAIN TRUSS SPANS			
	EAST APPROACH SPANS			
TOTALS FOR JOB NO. 110812			1.0	1.0

- ① Quantity shown is for estimating and bidding purposes only. Actual quantity, if any, will be determined in field.
- ② "MODIFICATION OF EXISTING BRIDGE STRUCTURE (BRIDGE NO. 02899)" includes verification of the geometry of the existing bridge and its relationship to the proposed work, as well as, demolition work for the entire project, including but not limited to, existing concrete removal, saw cutting, cleaning existing reinforcing steel to remain, removal of existing portions of structural steel, rivet removal, and reaming as required. Repair Types A-H as described in SP Job No. 110812 "BRIDGE STRUCTURAL STEEL REPAIRS" are not included in this pay item.
- ③ If and Where Directed by the Engineer, as described in Section 104.03 of the Standard Specifications for Highway Construction (2014 Edition).

⚠ Revised SP reference.
By: MKL 10/19/2026
Checked by: SFH 10/19/2026

TABLE OF QUANTITIES FOR ONE
TYPE F APPROACH SLAB

FOR INFORMATION ONLY

Reinforcing Steel	Concrete
(Lbs.)	(Cu. Yds.)
5,782	47.40

TABLE OF QUANTITIES FOR ONE
TYPE SPECIAL APPROACH GUTTER

FOR INFORMATION ONLY

Reinforcing Steel	Concrete
(Lbs.)	(Cu. Yds.)
243	4.71

TABLE OF QUANTITIES FOR ONE
STRUCTURAL STEEL REPAIR

FOR INFORMATION ONLY

	Structural Steel
	(Lbs.)
Repair A	80
Repair B	2,880
Repair C	500
Repair D	170
Repair E	220
Repair F	1
Repair G	100
Repair H	1,860

10/19/2026

STATE OF
ARKANSAS
LICENSED
PROFESSIONAL
ENGINEER
No. 14501
STEPHEN F. HARPER

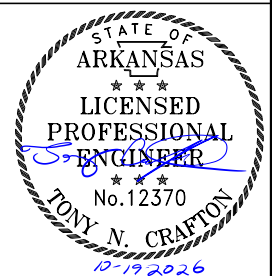
BRIDGE ENGINEER
PRINT DATE: 10/19/2026

SCHEDULE OF BRIDGE QUANTITIES
HWY. 49 MISSISSIPPI RIVER BRIDGE REHAB. (S)
PHILLIPS COUNTY
ROUTE 49 SECTION 11
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: MKL DATE: 06/2025 FILENAME: B110812_QX1.DGN
CHECKED BY: SFH DATE: 05/2026 SCALE: NO SCALE
DESIGNED BY: -- DATE: --

BRIDGE NO. 02899 DRAWING NO. 69536

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



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.

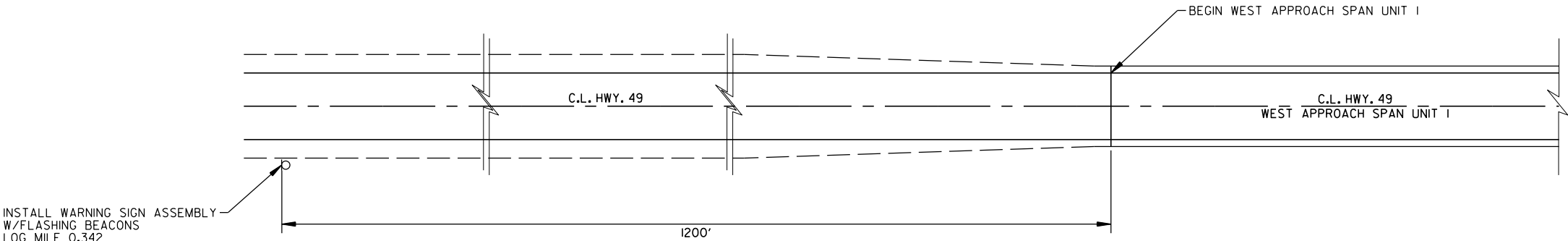
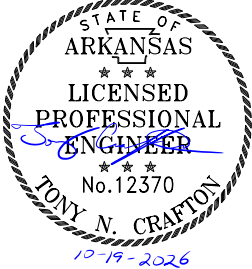
REVISIONS

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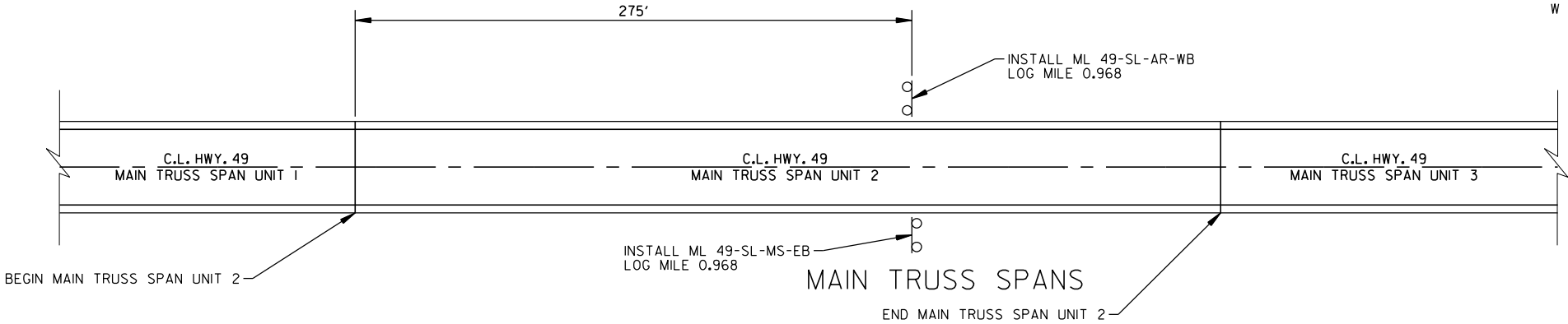
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REVISED DATE: \$\$\$REVDATE\$\$

SUMMARY OF QUANTITIES AND REVISIONS

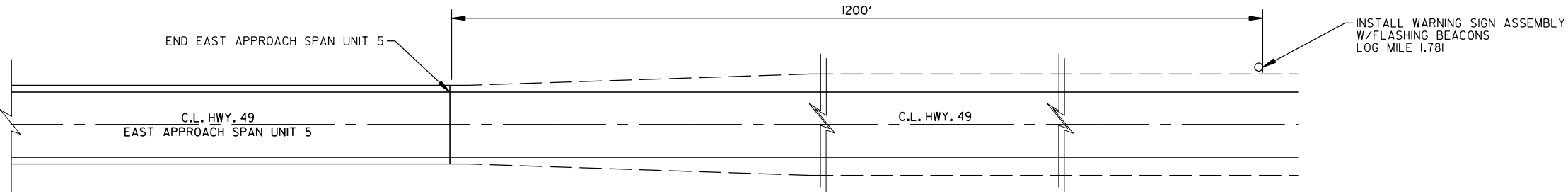
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
10/19/2026		6	ARK.	110812	28	107
PERMANENT SIGNING PLANS						



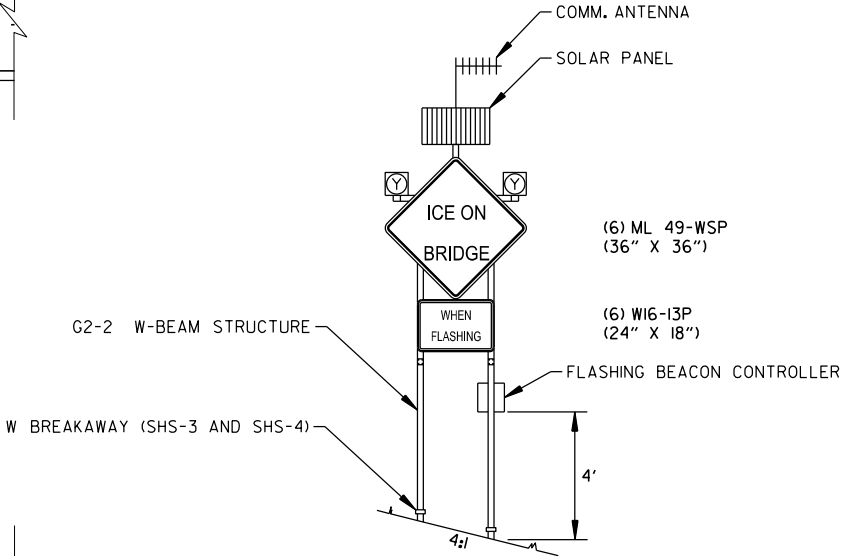
WEST END
(ARKANSAS END)



MAIN TRUSS SPANS



EAST END
(MISSISSIPPI END)



WARNING SIGN ASSEMBLY
WITH FLASHING BEACONS

MeconLand 10/19/2026 12:35:46 PM
WORKSPACE: Personal
c:\user's\public\mbipw\6\0222205\B110812_E1.dgn
REVISED DATE:

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
10/19/2026		6	ARK.	110812	31	107
		QUANTITIES				

SUMMARY OF QUANTITIES - ELECTRICAL		
PAY ITEM	UNIT	QUANTITY
NAVIGATIONAL LIGHTING SYSTEM	LS	1.00
OBSTRUCTION LIGHTING SYSTEM	LS	1.00
REMOVAL AND DISPOSAL OF EXISTING NAVIGATION LIGHTING SYSTEM	LS	1.00
REMOVAL AND DISPOSAL OF EXISTING OBSTRUCTION LIGHTING SYSTEM	LS	1.00
REMOVAL AND DISPOSAL OF EXISTING CONDUIT AND CABLING	LS	1.00
REMOVAL AND DISPOSAL OF EXISTING ITS EQUIPMENT	LS	1.00

FOR INFORMATION ONLY: SUMMARY OF QUANTITIES - INCLUDED IN NAVIGATIONAL LIGHTING SYSTEM AND OBSTRUCTION LIGHTING SYSTEM PAY ITEMS		
PAY ITEM	UNIT	QUANTITY
ELECTRIC CABLE, AERIAL SUPPORTED CONDUIT, XHHW, AWG #12, 3 CONDUCTOR	LF	1200
ELECTRIC CABLE, AERIAL SUPPORTED CONDUIT, XHHW, AWG #6, 3 CONDUCTOR	LF	4750
ELECTRIC CABLE, UNDERGROUND IN CONDUIT, XHHW, AWG #6, 3 CONDUCTOR	LF	100
LUMINAIRE FIXTURE, TYPE A	EA	4
LUMINAIRE FIXTURE, TYPE B	EA	4
LUMINAIRE FIXTURE, TYPE C	EA	10
LUMINAIRE FIXTURE, TYPE D	EA	6
LUMINAIRE FIXTURE, TYPE E	EA	2
LUMINAIRE FIXTURE, TYPE F	EA	20
NEMA 3R PANELBOARD W/ (1) 30A MAIN AND (4) 15A BRANCH BREAKERS	EA	8
PULLBOX, TYPE 2	EA	23
TRANSFORMER, 1.5KVA 600V TO 120/240V, NEMA 3R	EA	8
TRANSFORMER, 5KVA 120/240V TO 600V, NEMA 3R	EA	1

SUMMARY OF QUANTITIES - ITS EQUIPMENT		
PAY ITEM	UNIT	QUANTITY
RADIO INTERCONNECT, BROADBAND, SHORT RANGE	EA	13
PTZ CAMERA SYSTEM	EA	16
ETHERNET SWITCH, T100 HARDENED (8-PORT)	EA	7
EQUIPMENT CABINET, TYPE B	EA	3
TERMINAL SERVER	EA	1
ROAD WEATHER INFORMATION SYSTEM	EA	2
CELLULAR MODEM	EA	7
E-NET CABLE (EXTERIOR CAT 6)	LF	1340
ELECTRICAL CONDUCTORS-IN-CONDUIT (3C/8, AWG, EGC)	LF	8260
GALVANIZED STEEL CONDUIT (2")	LF	8260
ITS ELECTRICAL JUNCTION BOX, METALLIC (24" X 24" X 8")	EA	22
VIDEO MANAGEMENT SYSTEM INTEGRATION	LS	1

BROADBAND RADIO INTERCONNECT KIT PRECISION EQUIPMENT HPIRU02 OR COMPATIBLE INCLUDES:
INTEGRATED RADIO, ANTENNA, AND MOUNT
DIN MOUNT GIGABIT POWER INJECTOR
DIN MOUNT GAGABIT SURGE ARRESTOR
OUTDOOR MOUNT GIGABIT SURGE ARRESTOR
POLE MOUNT GIGABIT POE OUTDOOR SURGE ARRESTOR
UP TO 250 FEET OF CABLING
RJ45 MOD PLUGS FOR CABLING
GROUNDING STRAPS AND KITS
CABINET DIN RAIL AND SPRING NUTS
ALL STAINLESS STEEL HARDWARE

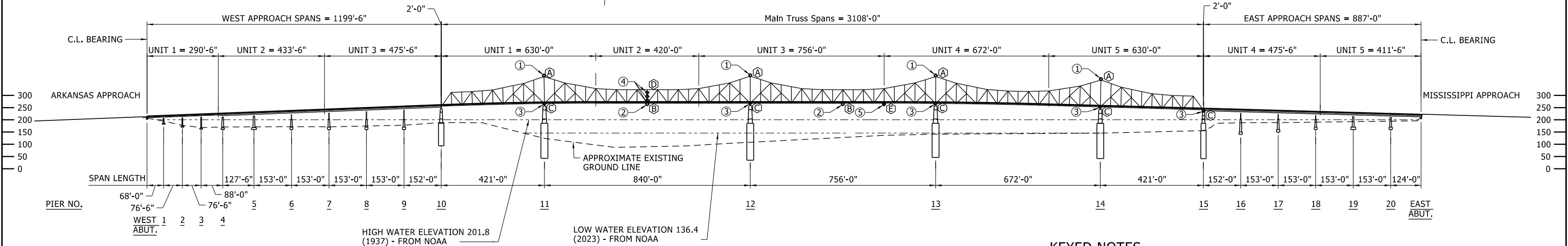
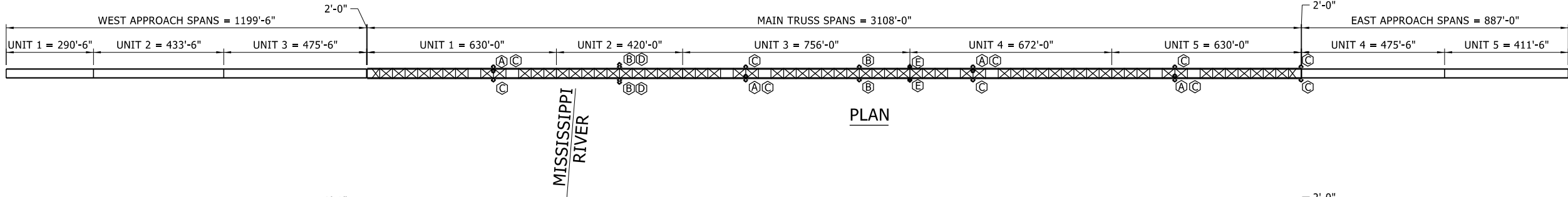
⚠️ Revised pay Item "E-NET CABLE (EXTERIOR CAT 6)"to align with Special Provlslons.
By: JJR 10/19/2026
Checked by: DIB 10/19/2026


10/19/26
ELECTRICAL ENGINEER
PRINT DATE: 10/19/2026

SUMMARY OF ILLUMINATION & ITS QUANTITIES
HWY. 49 OVER MISSISSIPPI RIVER
HWY. 49 MISSISSIPPI RIVER BRIDGE REHAB. (S)
PHILLIPS COUNTY
ROUTE 49 SECTION 11
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: JR DATE: 11/2025 FILENAME: B110812_E1.DGN
CHECKED BY: DM DATE: 11/2025 SCALE: NOT TO SCALE
DESIGNED BY: DB DATE: 11/2025
BRIDGE NO. 02899 DRAWING NO.

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WORKSPACE: Personal
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REVISED DATE:

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
10/19/2026		6	ARK.	110812	34	107
LAYOUT						



LIGHTING FIXTURE SCHEDULE				
TYPE	DESCRIPTION	LUMENS	VOLTAGE	MOUNTING HEIGHT
A	AERIAL HAZARD / OBSTRUCTION LIGHT	NA	120V	EXISTING
B	CHANNEL CENTER 360°, GREEN	NA	120V	EXISTING
C	180° RED PIER LIGHT	NA	120V	EXISTING
D	MAIN CHANNEL 180°, WHITE, 3 FIXTURES IN VERTICAL LINE	NA	120V	EXISTING
E	CHANNEL MARGIN - 180° RED	NA	120V	EXISTING
F	REMOTE LAMP OUT INDICATOR, BLUE	NA	120V	EXISTING

GENERAL NOTES

- ALL EXISTING LIGHTS, TRANSFORMERS, PANELS, WIRING, ETC. TO BE REMOVED AND REPLACED WITH NEW AT APPROXIMATELY THE SAME LOCATION.
- ALL LABOR AND MATERIAL TO CONFORM TO NEC CURRENT EDITION.
- NEW LIGHTING FIXTURES TO BE INSTALLED AT APPROXIMATELY THE SAME LOCATION AS THE EXISTING WHICH ARE TO BE REMOVED.

KEYED NOTES

- ① REMOVE AND REPLACE EXISTING AERIAL HAZARD WARNING BEACON / OBSTRUCTION LIGHTS (4 TOTAL) AND ALL ASSOCIATED CONDUIT, WIRING, TRANSFORMERS, RELAYS, DISCONNECTS, FUSES, REMOTE LAMP OUT INDICATORS, AND JUNCTION BOXES WITH NEW. REFER TO LIGHTING FIXTURE SCHEDULE AND GENERAL NOTES FOR ADDITIONAL INFORMATION. PAYMENT FOR ALL REMOVAL ITEMS WILL BE IN THE CONTRACT BID ITEM "REMOVAL AND DISPOSAL OF EXISTING OBSTRUCTION LIGHTING SYSTEM" AND "REMOVAL AND DISPOSAL OF EXISTING CONDUIT AND CABLING" BY THE LUMP SUM.
- ② REMOVE AND REPLACE EXISTING CHANNEL MARKER LIGHTS (4 TOTAL) AND ALL ASSOCIATED CONDUIT, WIRING, TRANSFORMERS, RELAYS, DISCONNECTS, FUSES, REMOTE LAMP OUT INDICATORS, AND JUNCTION BOXES WITH NEW. REFER TO LIGHTING FIXTURE SCHEDULE AND GENERAL NOTES FOR ADDITIONAL INFORMATION. PAYMENT FOR ALL REMOVAL ITEMS WILL BE IN THE CONTRACT BID ITEM "REMOVAL AND DISPOSAL OF EXISTING NAVIGATION LIGHTING SYSTEM" AND "REMOVAL AND DISPOSAL OF EXISTING CONDUIT AND CABLING" BY THE LUMP SUM.
- ③ REMOVE AND REPLACE EXISTING PIER LIGHTS (10 TOTAL) AND ALL ASSOCIATED CONDUIT, WIRING, TRANSFORMERS, RELAYS, DISCONNECTS, FUSES, REMOTE LAMP OUT INDICATORS, AND JUNCTION BOXES WITH NEW. REFER TO LIGHTING FIXTURE SCHEDULE AND GENERAL NOTES FOR ADDITIONAL INFORMATION. PAYMENT FOR ALL REMOVAL ITEMS WILL BE IN THE CONTRACT BID ITEM "REMOVAL AND DISPOSAL OF EXISTING NAVIGATION LIGHTING SYSTEM" AND "REMOVAL AND DISPOSAL OF EXISTING CONDUIT AND CABLING" BY THE LUMP SUM.
- ④ REMOVE AND REPLACE EXISTING MAIN CHANNEL LIGHTS (6 TOTAL) AND ALL ASSOCIATED CONDUIT, WIRING, TRANSFORMERS, RELAYS, DISCONNECTS, FUSES, REMOTE LAMP OUT INDICATORS, AND JUNCTION BOXES WITH NEW. REFER TO LIGHTING FIXTURE SCHEDULE AND GENERAL NOTES FOR ADDITIONAL INFORMATION. PAYMENT FOR ALL REMOVAL ITEMS WILL BE IN THE CONTRACT BID ITEM "REMOVAL AND DISPOSAL OF EXISTING NAVIGATION LIGHTING SYSTEM" AND "REMOVAL AND DISPOSAL OF EXISTING CONDUIT AND CABLING" BY THE LUMP SUM.
- ⑤ FURNISH AND INSTALL NEW CHANNEL MARGIN LINE AND ALL ASSOCIATED CONDUIT, WIRING, TRANSFORMERS, RELAYS, DISCONNECTS, FUSES, REMOTE LAMP OUT INDICATORS, AND JUNCTION BOXES. REFER TO LIGHTING SCHEDULE AND GENERAL NOTES FOR ADDITIONAL INFORMATION.

⚠ Revised Key Notes 1 through 4 to align with Summary of Quantities - Electrical table on sheet 31.
By: JJR 10/19/2026
Checked by: DIB 10/19/2026



ELECTRICAL ENGINEER
PRINT DATE: 10/19/2026

LIGHTING LAYOUT OF BRIDGE
HWY. 49 OVER MISSISSIPPI RIVER
HWY. 49 MISSISSIPPI RIVER BRIDGE REHAB. (S)
PHILLIPS COUNTY
ROUTE 49 SECTION 11
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: JR DATE: 11/2025 FILENAME: B110812_E4.DGN
CHECKED BY: DM DATE: 11/2025 SCALE: 1" = 200'
DESIGNED BY: DB DATE: 11/2025
BRIDGE NO. 02899 DRAWING NO.

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WORKSPACE: Personal
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REVISED DATE:

GENERAL NOTES

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction (2014 Edition) with applicable Supplemental Specifications and Special Provisions. Section and Subsection refer to the Standard Construction Specifications unless otherwise noted in the Plans.

DESIGN SPECIFICATIONS: AASHTO Standard Specifications for Highway Bridges, 17th Edition (2002)

DESIGN METHODS: LFD except for Pin and Hanger Assemblies which use ASD.

LIVE LOADING: HS 20-44

ADDITIONAL DEAD LOADING (Future Wearing Surface): 0 psf

MATERIALS AND STRENGTHS:
Class S(AE) Concrete (superstructure) f'c = 4,000 psi
Lightweight Aggregate Concrete (AE) (superstructure) f'c = 3,500 psi
(See SP Job No 110812 "LIGHTWEIGHT AGGREGATE CONCRETE (AE)")
Class S Concrete (substructure) f'c = 3,500 psi
Reinforcing Steel (AASHTO M 31 or M 322, Type A, Gr. 60) fy = 60,000 psi
Reinforcing Steel (AASHTO M 334 M/ M 334, Type 1035 CS) fy = 100,000 psi
Structural Steel (ASTM A709, Gr. 36) Fy = 36,000 psi
Structural Steel (ASTM A709, Gr. 50W) Fy = 50,000 psi
Structural Steel (ASTM A668 Class G) Fy = 50,000 psi

CONCRETE: See Std. Dwg. No. 55006 for additional concrete notes. Refer to SP Job No. 110812 "LIGHTWEIGHT AGGREGATE CONCRETE (AE)".

REINFORCING STEEL: See Std. Dwg. No. 55006 for additional reinforcing steel notes. Refer to SP Job No. 110812 "LOW-CARBON CHROMIUM REINFORCING STEEL".

In the concrete deck, mechanical couplers shall be used when splicing transverse reinforcing steel; lap splices shall only be allowed when splicing longitudinal reinforcing steel.

STRUCTURAL STEEL: See Std. Dwg. No. 55006 for additional structural steel notes.

All structural steel (excluding certain members of the abutment bearings, the pins and hangers in the pin and hanger assemblies, and certain windlock plates) shall be ASTM A709, Gr. 36. The external load plates and shear blocks of the bearing assemblies shall be ASTM A709, Gr. 50. The pins in the pin and hanger assemblies shall be ASTM A668 Class G. The hanger bars in the pin and hanger assemblies shall be ASTM A709, Gr. 50. The truss windlock Plates A14 and B4 and approach windlocks C4 and D5 shall be ASTM A709, Gr. 50W.

All bolts, unless noted otherwise, shall be ASTM F3125 Grade A325 Type 1, 7/8" Dia.

Unless noted otherwise, bolt tensioning requirements for all structural steel repairs shall meet the requirements in Subsection 807.06.

All new bolt holes, unless noted otherwise, shall be 1 5/16" dia. Where existing rivets are to be removed and replaced with bolts, existing rivet holes shall be reamed up to 1/2". The Contractor shall not exceed 1 1/16" dia. bolt holes. If larger bolt holes are formed, the Contractor shall contact the Engineer for further evaluation.

All oversized holes shall require the use of two washers, one below the head of the bolt and one below the nut.

The minimum edge distance on bolted connections shall meet the requirements in the Subsection 807.42.

SUBSTRUCTURE NOTES: See Std. Dwg. No. 55006 for additional substructure notes.

PAINTING: Blast clean the faying surfaces of splices and connections of all structural elements to a level SSPC-SP15 requiring a Commercial Grade Power Cleaning Tool. Unless noted otherwise on the plans, all existing steel within 12" of the working limits of each retrofit location shall be cleaned and capable of achieving a Class B Slip Resistant Coefficient. See SP Job No. 110812 "STEEL PLATE CONNECTION PREPARATION" for additional information. Blast clean all other surfaces of all structural elements to a level SSPC-SP10, see SP Job No. 110812 "CLEANING AND PAINTING EXISTING STRUCTURAL STEEL" for additional information.

The existing bridge structural members may contain lead paint and other toxic materials. All power tools shall be equipped with vacuum shrouds and tipped with HEPA-grade air filters at their air exhaust.

All structural steel, except galvanized members and surfaces in contact with concrete, shall be painted as specified in Subsection 807.75. The color of paint shall be Aluminum and shall match Federal Standard 595B, Color Chip No. 27200. Submit a sample of the proposed paint color to the Engineer for acceptance prior to ordering the finish coat material.

The intermediate coat(s) shall be white. Provide stripe coats of contrasting colors to accommodate coating inspection in the field.

BRIDGE DECK: The concrete bridge deck shall be given an artificial turf drag finish before the concrete has attained its initial set. The Mean Texture Depth (MTD) shall be no less than 0.04 in. per ASTM E 965. See SP Job No. 110812 "LIGHTWEIGHT AGGREGATE CONCRETE (AE)" for additional information.

PROTECTIVE SURFACE TREATMENT: Class 2 Protective Surface Treatment shall be applied to the roadway surface of the backwall and to the roadway face and top of the concrete bridge traffic rails in the Main Truss Spans in accordance with Section 803.

DETAIL DRAWING NO(S).

69539
69540-69543
69544-69552
69553
69554
69555-69559
69560-69563
69564
69565-69566
69567-69568
69569
69570
69571
69572
69573-69574
69575-69578
69579-69585
69586
69587-69590
69591-69592
69593
69594
69595-69600
69601

DETAIL DRAWINGS:
Details of West Abutment Backwall Repair
Details of Bearing Replacement
Details of Deck Replacement
Details of Main Truss Structural Steel Repairs
Details of Contraction Joints
Details of Main Truss Expansion Joints and Drainage Systems
Details of Floor Beam Repairs: L25, L43, and L59 Locations
Details of Floor Beam Repairs: Repair Type A - Top Flange Repair
Details of Floor Beam Repairs: Repair Type B - Bottom Flange Repair
Details of Floor Beam Repairs: Repair Type C - Web Repair
Details of Floor Beam Repairs: Repair Type D - Stiffener Replacement
Details of Repair Type E - Pin and Hanger Replacement
Details of Repair Types F and G
Details of Repair Type H - Cross Beam Replacement
Details of Upper Chord Repairs
Details of Lower Chord Repairs
Details of Main Truss Spans Wind Lock Replacement
Details of Access Platform Repair
Details of Approach Spans Expansion Joints and Drainage System
Details of Approach Spans Floor Beam Replacements
Details of Approach Spans Floor Beam Repairs
Details of East Abutment Stringer 2 Repair
Details of Approach Spans Wind Lock Replacement
Details of Type Special Approach Gutter

GENERAL NOTES (Cont'd)

EXISTING BRIDGE: Existing Bridge No. 02899 (Log Mile 0.569) is 30.8' wide (28.0' clear roadway) and 5198.5' long consists of three steel superstructure units in the West Approach Spans, five steel truss units in the Main Truss Spans, and two steel superstructure units in the East Approach Span; with a concrete substructure. Plans of the existing structure, if available, may be obtained upon request to the Construction Contract Development Section of the Program Management Division.

VERIFICATION: Except as noted, components of the existing bridge are to be retained and joined to the proposed work. Information and dimensions shown are based on the existing bridge plans. The Contractor is to adhere strictly to the requirements for verification of the geometry of the existing bridge and its relationship to the proposed work described in Subsection 821.02 and make necessary adjustments to fit the proposed work to the existing structure. Payment for this work shall be considered subsidiary to the pay item "MODIFICATION OF EXISTING BRIDGE STRUCTURE (BRIDGE NO. 02899)".

REMOVAL AND SALVAGE: Portions of existing Bridge No. 02899 shall carefully be removed by the Contractor during staged construction as detailed in the plans. All material removed from the existing bridge shall become property of the Contractor. Payment for this work shall be considered subsidiary to the pay item "MODIFICATION OF EXISTING BRIDGE STRUCTURE (BRIDGE NO. 02899)".

SHORING: Shoring for truss floor beam repairs, truss stinger repairs, approach floor beam replacements and repairs, and lower wind lock replacements shall conform to SP Job No. 110812 "STRUCTURAL STEEL SHORING". Shoring for west abutment backwall excavation shall conform to SP Job No. 110812 "SHORING".

The west abutment backwall is located on the Mississippi and White River Below Helena levee system. Care shall be taken so that the shoring for the backwall replacement shall not be detrimental to the levee integrity. All shoring details and plans for the backwall replacement must be submitted to USACE for review and approval prior to beginning construction. In the event of high water, an emergency action plan shall be required to protect the integrity of the levee system. See SP Job No. 110812 "SHORING" for additional information.

MAINTENANCE OF TRAFFIC: See Roadway Plans and SP Job No. 110812 "MAINTENANCE OF TRAFFIC"

WORKING PLATFORM: Stability of partial members and complete members is to be maintained by the Contractor during erection, until all members and final bracing are in place and all bolts are properly installed. Erection loads, including self-weight of the steel members, wind loading and construction live load effects are to be evaluated by the Contractor for stability, stresses and deflections on the steel members during any stage of erection in accordance with Subsection 105.14.

The Contractor is responsible for all construction loads on the bridge and shall conduct the work in a manner to avoid overstressing or damage of the existing structure. The Contractor shall consider provided inspection information in their construction approach.

The Contractor shall provide to the Engineer their proposed access systems for review and approval.

The Contractor is responsible for ensuring all construction loads acting on the structure and its components are within safe working limits. The Contractor shall provide to the Engineer their proposed paint tarping system and blast containment system for review and approval.

STEEL DETERIORATION LIMITS: The Contractor shall refer to the "Section Loss Limits" and "Remaining Section Limits" tables provided for allowable section loss by member. During blast cleaning and surface preparation, care shall be taken to avoid removal of material beyond the section loss values listed in the table. After cleaning, the Contractor shall perform thickness checks using approved methods to verify that remaining section dimensions meet or exceed the listed values. If upon inspection, it appears that cleaning of the structural members should exceed any of the listed section loss values, the Contractor shall consult the Engineer prior to cleaning for evaluation and determination of necessary repair. For additional information see SP Job No. 110812 "CLEANING AND PAINTING EXISTING STRUCTURAL STEEL".

BRIDGE REHABILITATION: Do not consider any of the data on the existing structure supplied in the original design drawings or made available to you by ARDOT or its authorized agents as positive representations of any of the conditions that you will encounter in the field.

The information shown on the plans for the existing bridge is not part of the plans, proposal, or contract and is not to be considered a basis for computation of the unit prices used for bidding purposes. There is no expressed or implied agreement that information is correctly shown. The bidder is not to rely on this information, but is to assume the possibility that conditions affecting the cost and/or quantities of work to be performed may differ from those indicated.

Use care when removing portions of the existing structure to prevent damage to the remaining portions. Repair or replace any remaining components damaged by removal operations at no additional cost to ARDOT to the satisfaction of the Engineer.

VERIFY ALL DIMENSIONS AND GEOMETRY OF THE EXISTING STRUCTURE IN THE FIELD AS NECESSARY FOR PROPER FIT TO PROPOSED CONSTRUCTION PRIOR TO FABRICATION. SUBMIT TO THE ENGINEER FOR APPROVAL ANY PROPOSED ADJUSTMENTS TO FACILITATE PROPER FIT TO THE EXISTING STRUCTURE.

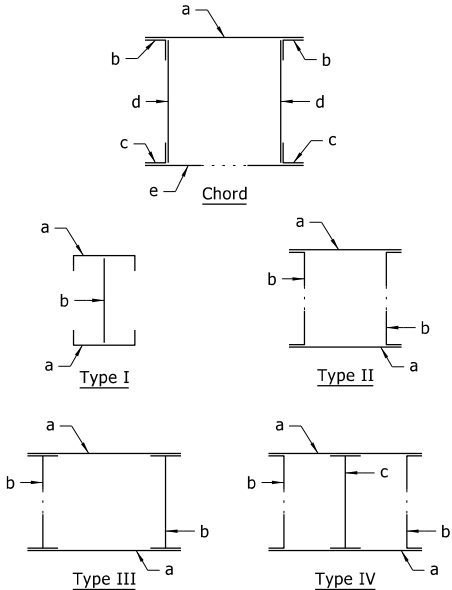
Final design inspection was not performed prior to developing the contract plans. Types of repairs and repair limits have been developed using inspection data provided by others. Every effort has been taken to accurately represent the types and extents of repairs required; however, repairs and their limits are subject to change in the field at the direction of the Engineer.

FIELD DRILLING OPTION: The Contractor may, subject to the Engineers approval, substitute field drilling for shop-drilled holes when attaching new plates or members to existing riveted/bolted connections. The Contractor is responsible for ensuring proper hole alignment and fit-up. Any misalignment requiring reaming or adjustment shall be performed at the Contractor's expense.

Revised backfill per USACE fill requirements.
By: MKL 10/19/2026
Checked by: SFH 10/19/2026

	DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
	10/19/2026		6	ARK.	110812	44	107
			02899 - GENERAL NOTES - 69538				

TRUSS MEMBER TYPES



SECTION LOSS LIMITS

Maximum Allowable Section Loss

TRUSS MEMBERS	
Chord	
Top Plate, a	0.5 sq. in.
Top Angles, b	0.25 sq. in.
Bottom Angles, c	0.25 sq. in.
Web Plate, d	1.0 sq. in.
Bottom Plate, e	0.5 sq. in.
Type I	
Channels, a	1.5 sq. in.
Web Plate, b	0.125 in.
Type II	
Plates, a	0.125 in.
Channels, b	2.52 sq. in.
Type III	
Plates, a	0.125 in.
I-Beams, b	1.0 sq. in.
Type IV	
Plates, a	0.125 in.
Channels, b	2.7 sq. in.
I-Beam, c	3.2 sq. in.

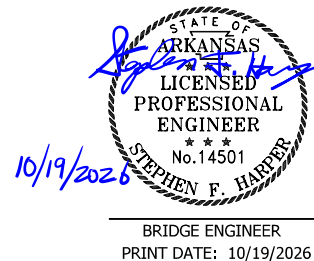
REMAINING SECTION LIMITS

Minimum Allowable Remaining Section

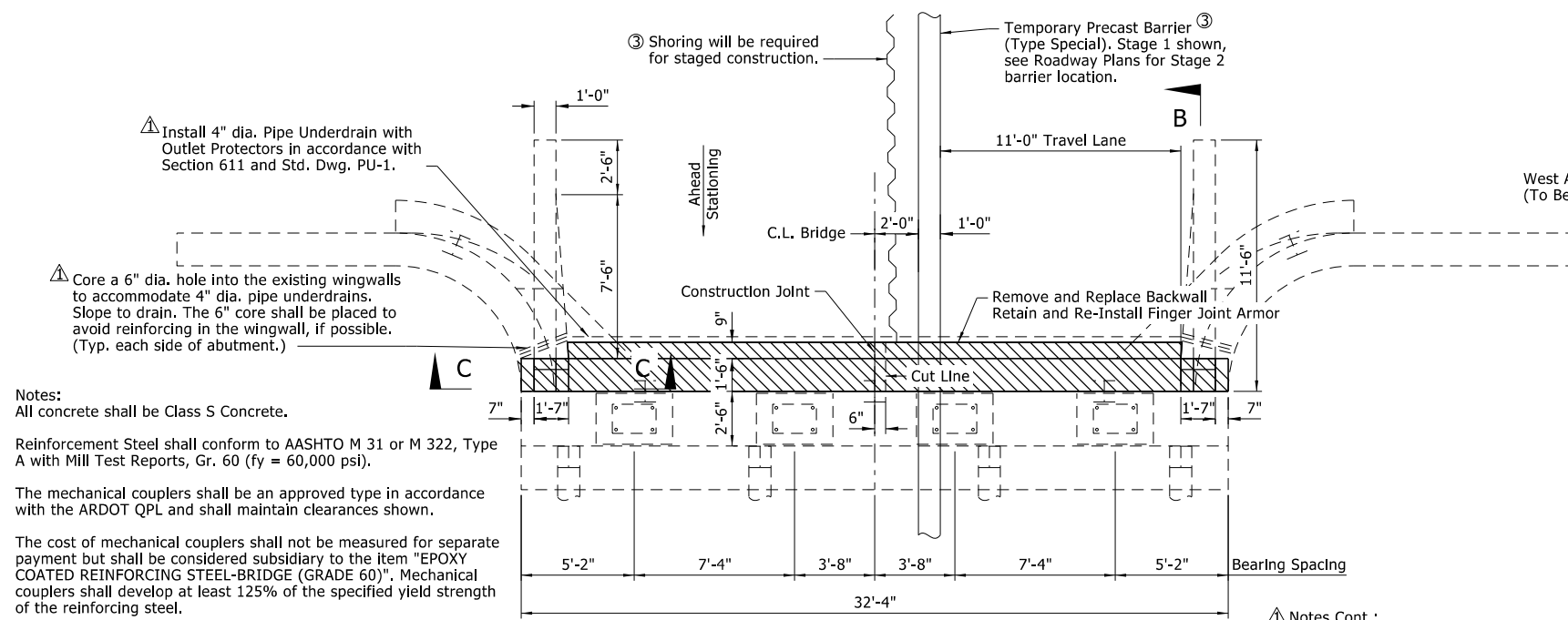
MAIN SPANS							
Member	Top Flange	Bottom Flange	Bottom Cover PL	Top Cover PL	Web Out Side Stingers	Web Between Stingers	Thickness
① Floor Beam Type FB1 & FB2	0.5"	0.5"	--	--	0.3125"	0.1875"x6"	--
② Floor Beam Type FB5	0.5"	0.5"	0.4"	0.4"	0.594"	0.594"	--
③ Floor Beam Type FB6	0.7"	0.7"	--	--	0.55"	0.55"	--
Stringers 1 and 3 (Ext. Stringer)	0.9375"	0.9375"	--	--	0.625"	0.625"	--
Stringer 2 (Int. Stringer)	1.125"	1.125"	--	--	0.6875"	0.6875"	--
Gusset Plate	--	--	--	--	--	--	0.5"
④ Pin & Hanger Bar (Ext. Stringer)	--	--	--	--	--	--	0.875"
④ Pin & Hanger Bar (Int. Stringer)	--	--	--	--	--	--	0.875"
APPROACH SPANS							
Member	Top Flange	Bottom Flange	Bottom Cover PL	Top Cover PL	Web Out Side Stingers	Web Between Stingers	Thickness
Exterior Girders - Unit 1	0.5"x3"	0.5"x3"	--	--	0.25"x12"	0.25"x12"	--
Interior Girders - Unit 1	0.5"x6"	0.5"x6"	0.25"x3"	0.25"x3"	0.25"x12"	0.25"x12"	--
Girders - Units 2 & 3	0.625"x3"	0.625"x3"	--	--	0.375"x12"	0.375"x12"	--
Girders - Units 4 & 5	0.625"	0.625"	--	--	0.375"	0.375"	--
⑤ Floor Beam - Unit 2	0.7875"x4"	0.7875"x4"	--	--	0.45"	0.45"	--
Floor Beam - Unit 3	0.725"x4"	0.725"x4"	--	--	0.45"	0.45"	--
Floor Beam - Unit 4	0.725"x4"	0.725"x4"	--	--	0.45"	0.45"	--
⑤ Floor Beam - Unit 5	0.7875"x4"	0.7875"x4"	--	--	0.45"	0.45"	--
Stringers - Units 2 thru 5	0.6875"	0.6875"	--	--	0.4375"	0.4375"	--

- ① FB1 are typical floor beams, FB2 are floor beams located at contraction joints.
- FB3 and FB4 are floor beams located at L25, L43, and L59 (not Included in this table); see Dwg. Nos. 69560-69563 for additional details.
- ② FB5 are floor beams at L0 and L74.
- ③ FB6 are floor beams located at L10, L30, L48, and L64.
- ④ Allowable reduction in the edge distance of hanger bar is 0.125 in. on each end.
- ⑤ Maximum section loss cannot be allowed in top and bottom flanges simultaneously at the same location.

GENERAL NOTES
HWY. 49 OVER MISSISSIPPI RIVER
HWY. 49 MISSISSIPPI RIVER BRIDGE REHAB. (S)
PHILLIPS COUNTY
ROUTE 49 SECTION 11
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: MKL DATE: 10/2025 FILENAME: B110812_GN1.DGN
CHECKED BY: SFH DATE: 05/2026 SCALE: NO SCALE
DESIGNED BY: HSS DATE: 04/2025
BRIDGE NO. 02899 DRAWING NO. 69538



	DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
⚠	10/19/2026		6	ARK.	110812	45	107
			02899 - BACKWALL REPAIR- 69539				



Notes:
All concrete shall be Class S Concrete.

Reinforcement Steel shall conform to AASHTO M 31 or M 322, Type A with Mill Test Reports, Gr. 60 ($f_y = 60,000$ psi).

The mechanical couplers shall be an approved type in accordance with the ARDOT QPL and shall maintain clearances shown.

The cost of mechanical couplers shall not be measured for separate payment but shall be considered subsidiary to the item "EPOXY COATED REINFORCING STEEL-BRIDGE (GRADE 60)". Mechanical couplers shall develop at least 125% of the specified yield strength of the reinforcing steel.

Remove all existing backwall reinforcing prior to installing new vertical reinforcing.

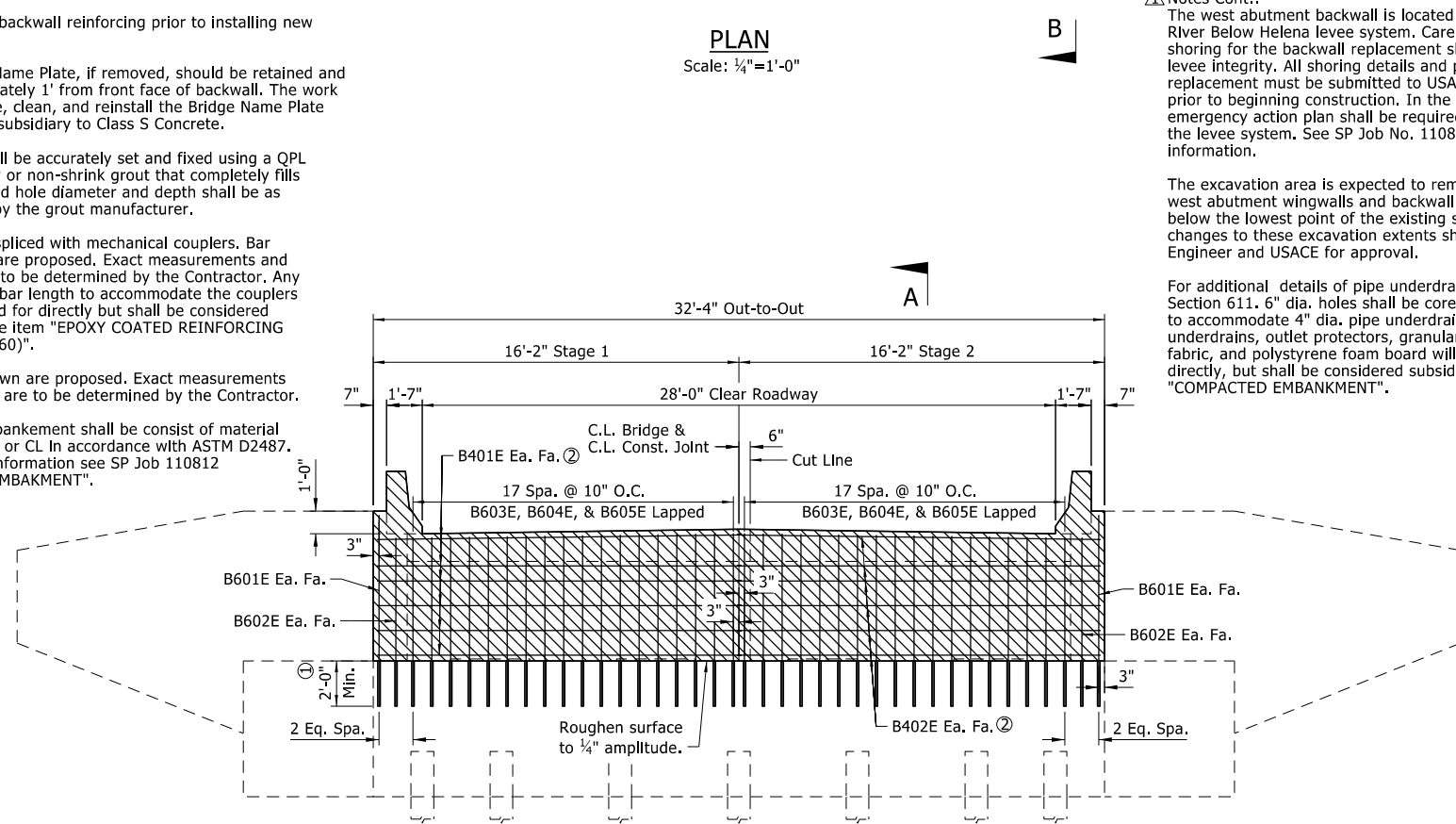
The Type C Bridge Name Plate, if removed, should be retained and reinstalled approximately 1' from front face of backwall. The work necessary to remove, clean, and reinstall the Bridge Name Plate shall be considered subsidiary to Class S Concrete.

① Bars placed shall be accurately set and fixed using a QPL approved epoxy or non-shrink grout that completely fills the holes. Drilled hole diameter and depth shall be as recommended by the grout manufacturer.

② Bars are to be spliced with mechanical couplers. Bar lengths shown are proposed. Exact measurements and dimensions are to be determined by the Contractor. Any changes to the bar length to accommodate the couplers shall not be paid for directly but shall be considered subsidiary to the item "EPOXY COATED REINFORCING STEEL (GRADE 60)".

①③ Dimensions shown are proposed. Exact measurements and dimensions are to be determined by the Contractor.

④ Compacted Embankment shall be consist of material classified as CH or CL In accordance with ASTM D2487. For additional information see SP Job 110812 "COMPACTED EMBAKMENT".



ELEVATION
(Looking Back)
Scale: $\frac{1}{4}" = 1'-0"$

BAR LIST			
MARK	NO. REQ'D	LENGTH	PIN DIA.
②B401E	14	16'-6"	Str.
②B402E	14	15'-6"	Str.
B403E	12	3'-7"	2"
B404E	4	3'-0"	2"
B405E	12	2'-10"	Str.
B601E	4	8'-7"	Str.
B602E	4	7'-7"	Str.
B603E	72	6'-3"	Str.
B604E	36	8'-8"	4½"
B605E	36	5'-6"	4½"
B606E	4	6'-9"	4½"

BENDING DIAGRAMS

Dimensions are out-to-out of bars.

All bars designated with "E" suffix are to be epoxy coated.

B403E

B404E

B604E

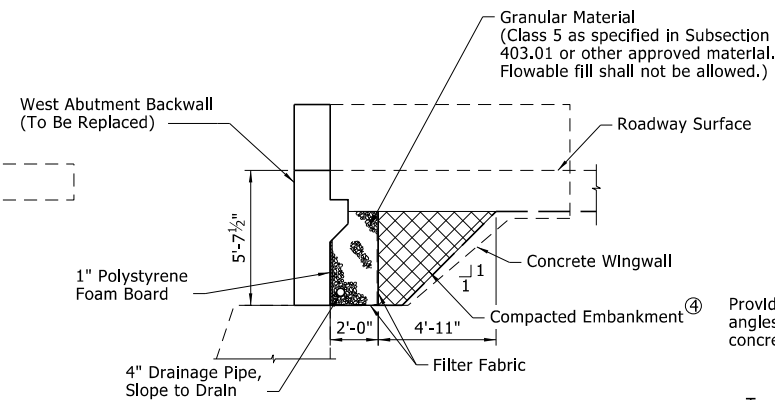
B605E

B606E

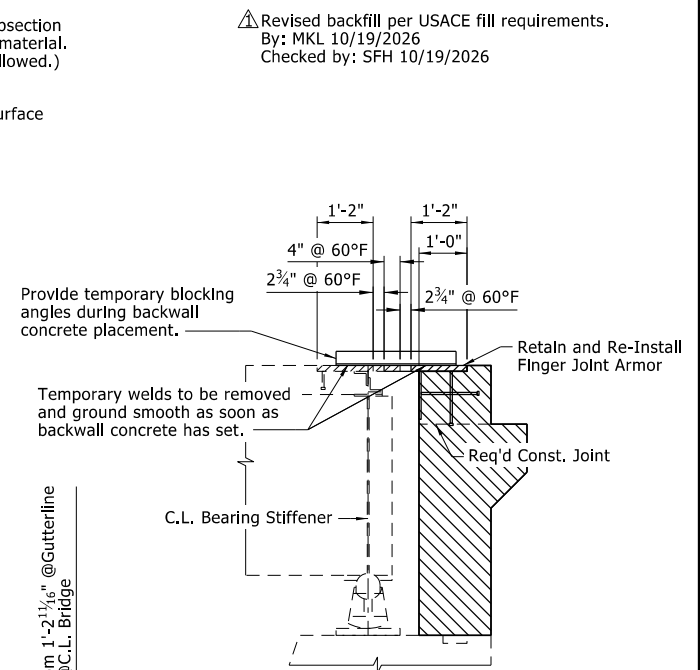
Notes Cont.:
The west abutment backwall is located on the Mississippi and White River Below Helena levee system. Care shall be taken so that the shoring for the backwall replacement shall not be detrimental to the levee integrity. All shoring details and plans for the backwall replacement must be submitted to USACE for review and approval prior to beginning construction. In the event of high water, an emergency action plan shall be required to protect the integrity of the levee system. See SP Job No. 110812 "SHORING" for additional information.

The excavation area is expected to remain within the limits of the west abutment wingwalls and backwall. No excavation shall extend below the lowest point of the existing structure or foundation. Any changes to these excavation extents shall be submitted to the Engineer and USACE for approval.

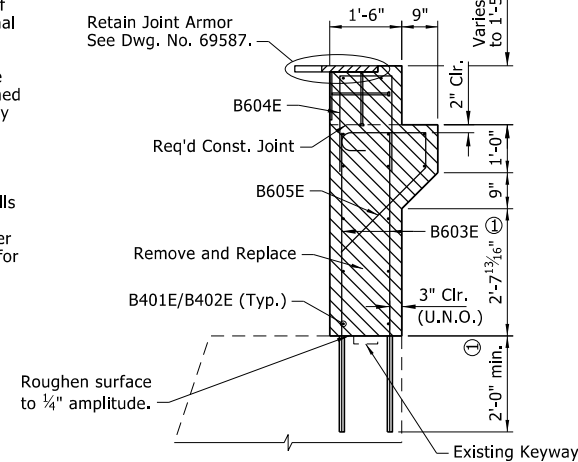
For additional details of pipe underdrain see Std. Dwg. PU-1 and Section 611. 6" dia. holes shall be cored into the existing wingwalls to accommodate 4" dia. pipe underdrains, slope to drain. Pipe underdrains, outlet protectors, granular materials, drain pipe, filter fabric, and polystyrene foam board will not be measured or paid for directly, but shall be considered subsidiary to the pay item "COMPACTED EMBANKMENT".



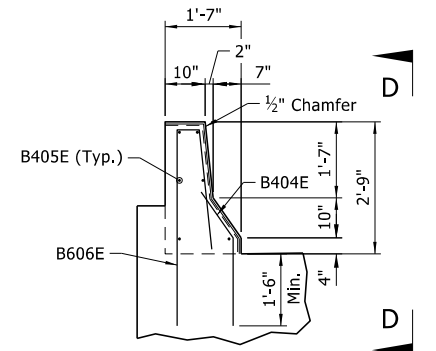
BACKFILL DETAIL ③ ①
Scale: 1/4"=1'-0"



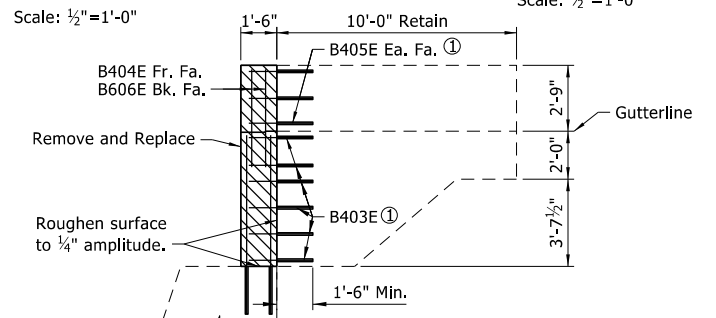
FINGER JOINT INSTALLATION



SECTION A-A
Scale: $\frac{1}{2}"=1'-0"$



SECTION C-C
Scale: $\frac{1}{2}"=1'-0"$



SECTION B-B
Scale: $\frac{1}{4}"=1'-0"$

DETAILS OF WEST ABUTMENT BACKWALL REPAIR ROUTE SECTION ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: <u>LAC</u>	DATE: <u>03/2025</u>	FILENAME: <u>B110812_BW1.DGN</u>
CHECKED BY: <u>SFH</u>	DATE: <u>05/2026</u>	SCALE: <u>AS NOTED</u>
DESIGNED BY: <u>LAC</u>	DATE: <u>03/2025</u>	

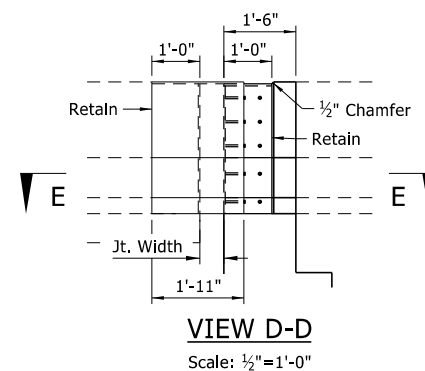
BRIDGE NO. 02899

DRAWING NO. 69539

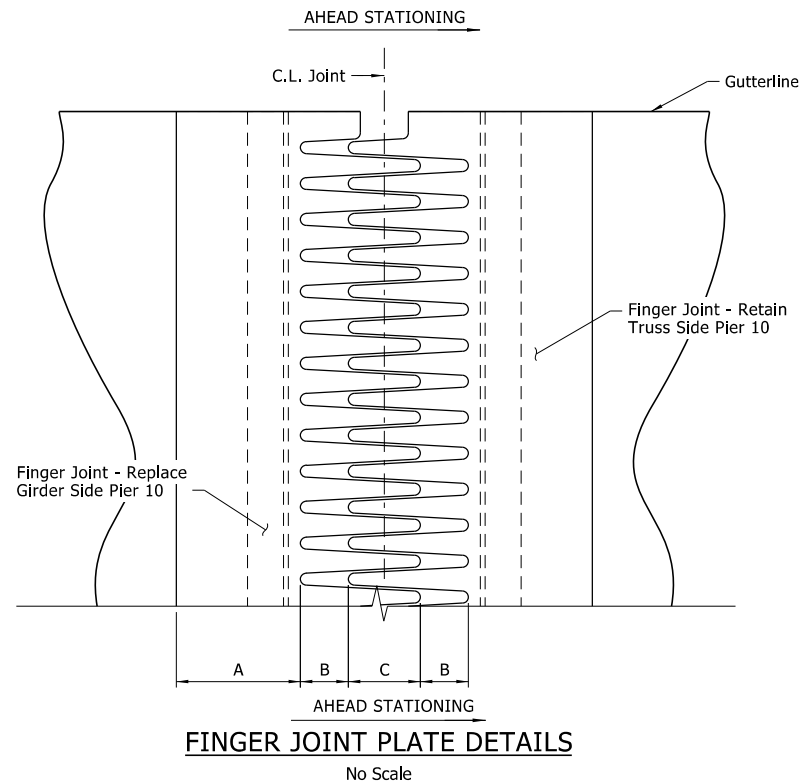


7/2026

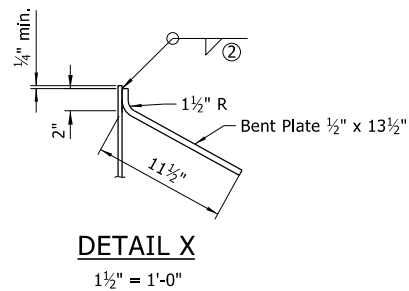
BRIDGE ENGINEER
PRINT DATE: 10/19/20



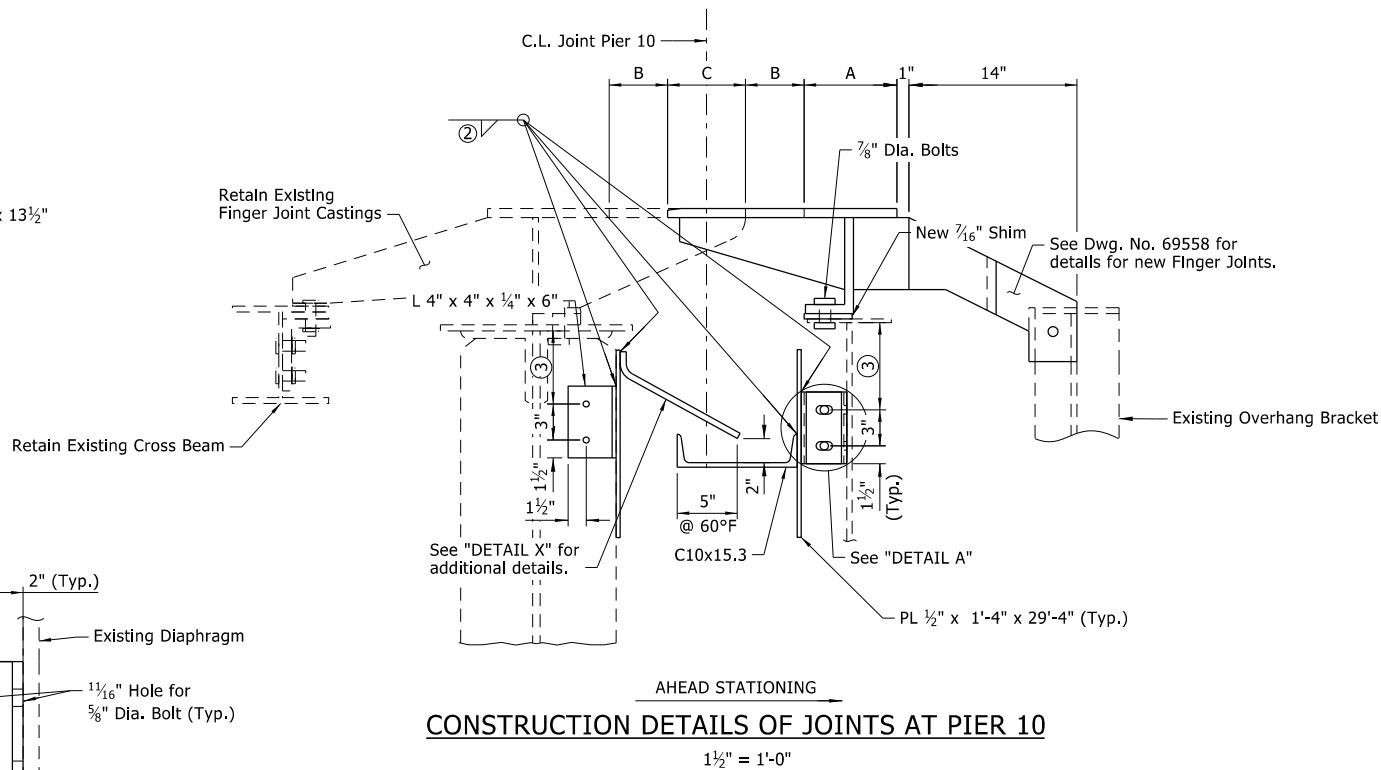
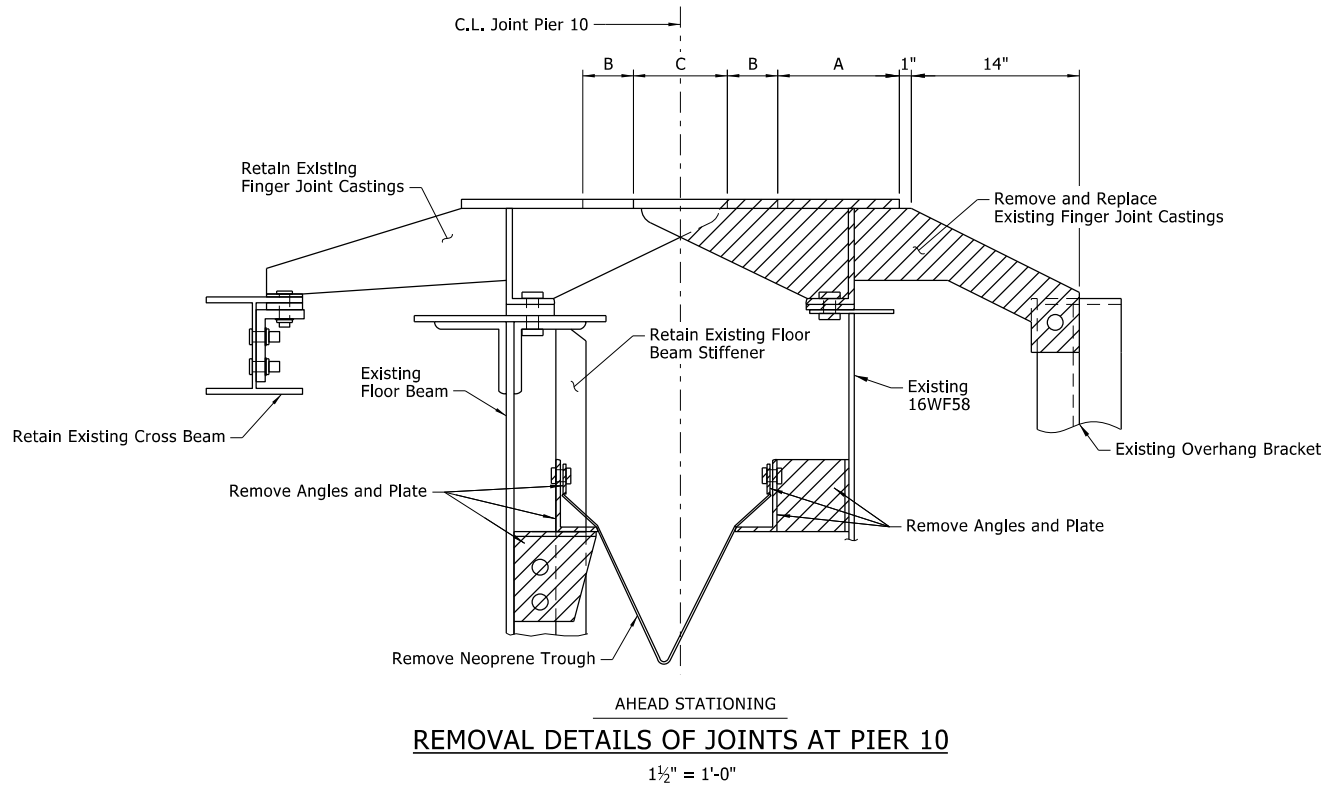
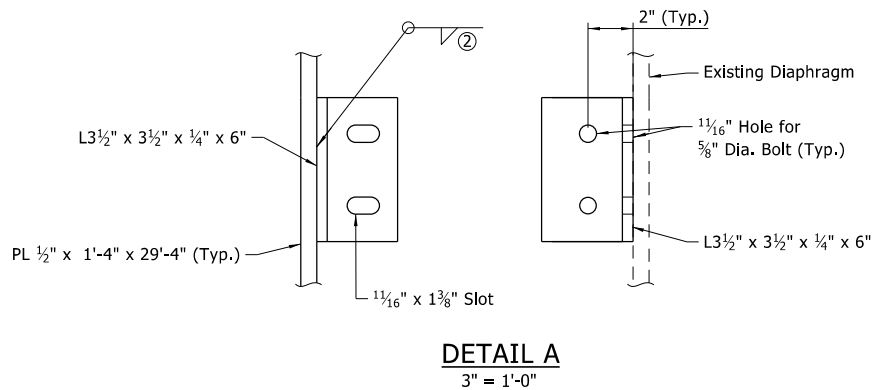
SECTION E-E
No Scale



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"

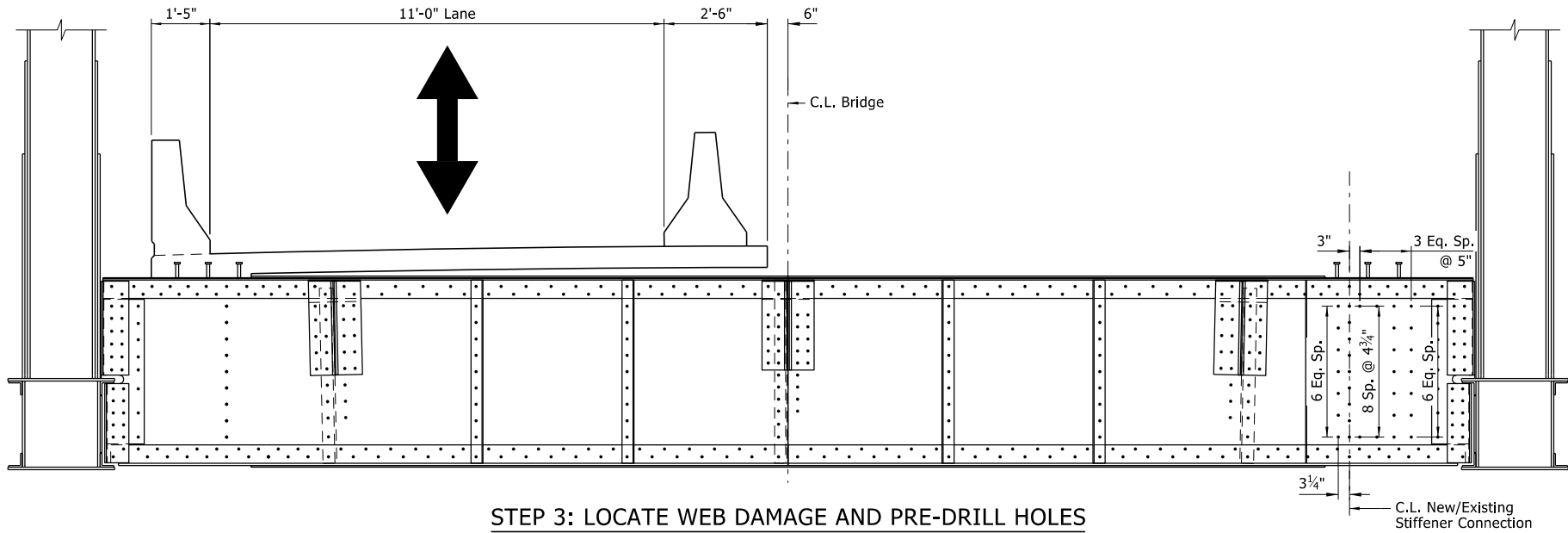


- Notes:
- All repair dimensions and locations shall be field verified prior to performing the repair.
- Top of Finger Joint shall conform to the profile grade of the roadway surfaces.
- Drainage System is to be installed at a cross slope for proper water drainage out of the bridge.
- ⚠ All steel, unless 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



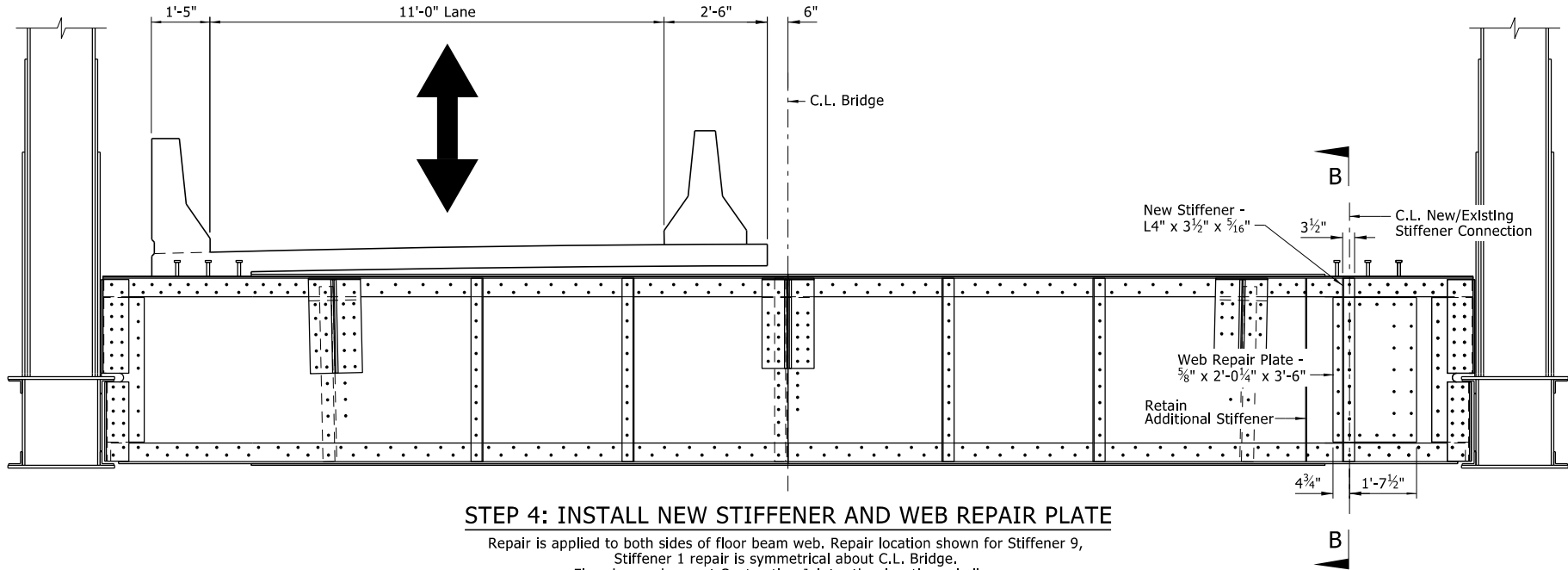
Revised to add clip for fit.
By: MKL 10/19/2026
Checked by: HSS 10/19/2026

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
10/19/2026		6	ARK.	110812	74	107
02899 - FLOOR BEAM REPAIRS - 69568						



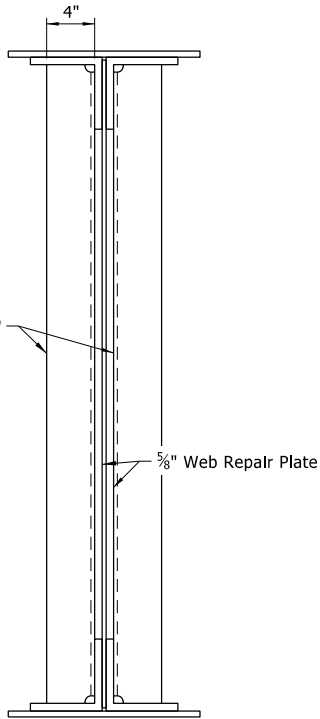
STEP 3: LOCATE WEB DAMAGE AND PRE-DRILL HOLES

Repair is applied to both sides of floor beam web. Repair location shown for Stiffener 9, Stiffener 1 repair is symmetrical about C.L. Bridge.
Floor beam shown at Contraction Joint, other locations similar.
 $\frac{1}{2}" = 1'-0"$



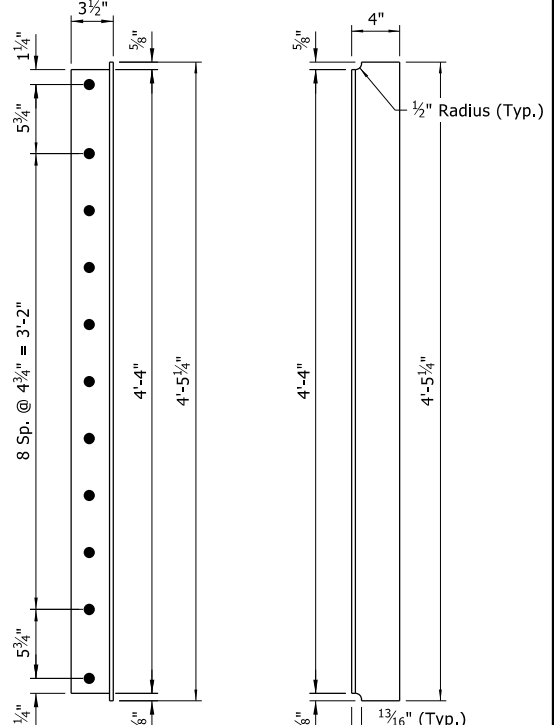
STEP 4: INSTALL NEW STIFFENER AND WEB REPAIR PLATE

Repair is applied to both sides of floor beam web. Repair location shown for Stiffener 9, Stiffener 1 repair is symmetrical about C.L. Bridge.
Floor beam shown at Contraction Joint, other locations similar.
 $\frac{1}{2}" = 1'-0"$



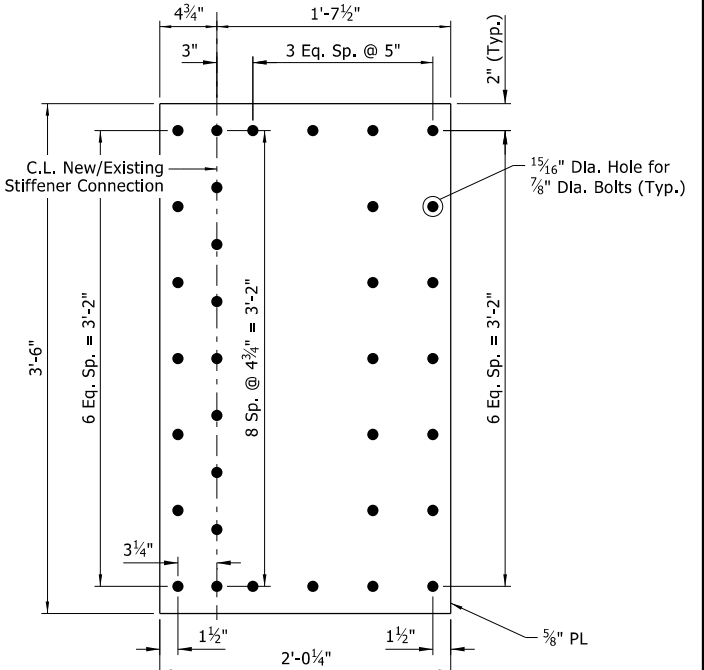
SECTION B-B

$1 \frac{1}{2}" = 1'-0"$



NEW STIFFENER

$1 \frac{1}{2}" = 1'-0"$



WEB REPAIR PLATE

$1 \frac{1}{2}" = 1'-0"$

**SHEET 2 OF 2
DETAILS OF FLOOR BEAM REPAIRS:
REPAIR TYPE C -
WEB REPAIR**

ROUTE SECTION
ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: LAC DATE: 07/2025 FILENAME: B110812_FB3.DGN

CHECKED BY: HSS DATE: 10/2025 SCALE: AS SHOWN

DESIGNED BY: MHA DATE: 07/2025

BRIDGE NO. 02899 DRAWING NO. 69568

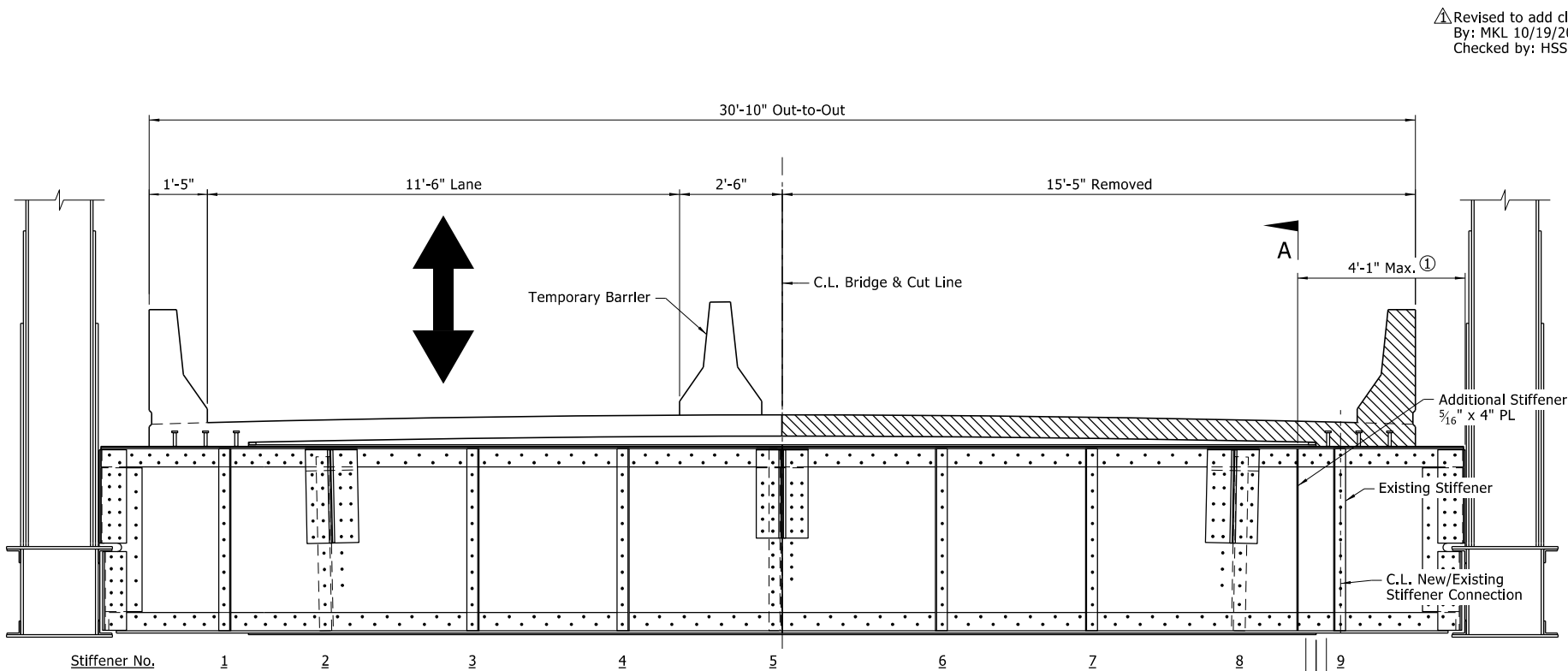
BRIDGE ENGINEER
PRINT DATE: 10/19/2026



Notes:
No web repairs may begin until both the lane load (half deck) above the web repair has been removed and the additional stiffener has been installed.
Contractor may taper additional stiffener to fit between existing angles.
The Contractor shall field verify all dimensions and locations including the bolt/rivet hole locations, spacings, and web damage extents. If any field measurement conflicts with the proposed information, notify the Engineer for further analysis.
All work and materials required for this repair shall be paid for as "REPAIR TYPE C: FLOOR BEAM WEB". For additional information see SP Job No. 110812 "BRIDGE STRUCTURAL STEEL REPAIRS".

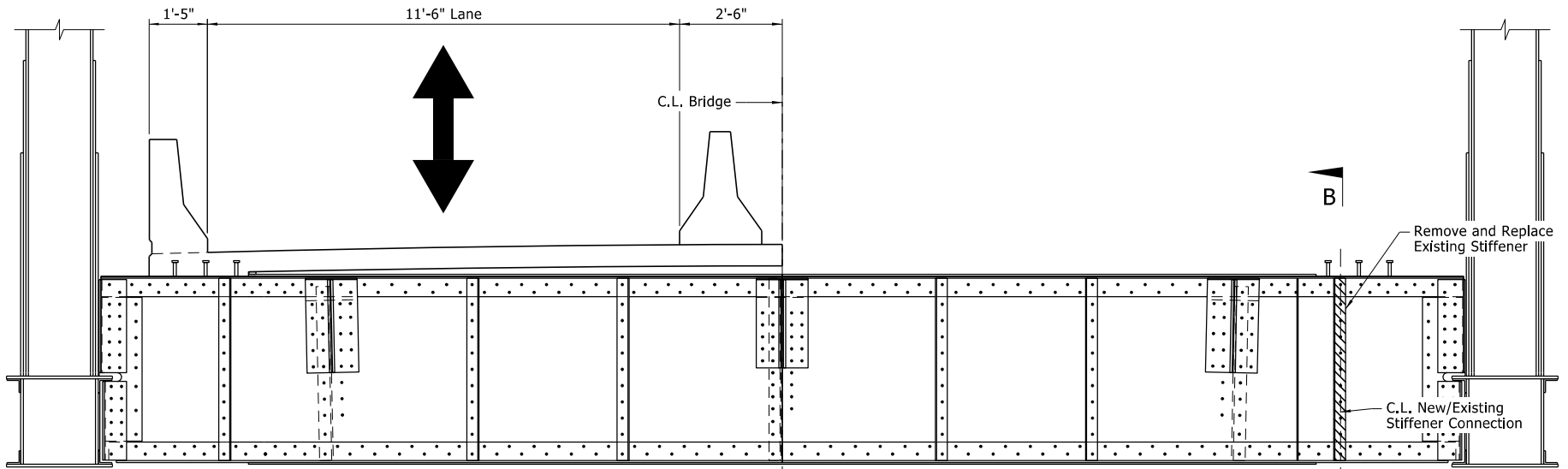
MeconLond 10/19/2026 12:36:40 PM
WORKSPACE: Personal
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REVISED DATE:

MeconLond 10/19/2026 12:36:49 PM
WORKSPACE: Personal
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REVISED DATE:



STEP 1: INSTALL ADDITIONAL STIFFENER

Repair is applied to both sides of floor beam web. Repair location shown for Stiffener 9, Stiffener 1 repair is symmetrical about C.L. Bridge. Floor beam shown at Contraction Joint, other locations similar.
1/2" = 1'-0"



STEP 2: REMOVE EXISTING STIFFENER

Repair is applied to both sides of floor beam web. Repair location shown for Stiffener 9, Stiffener 1 repair is symmetrical about C.L. Bridge. Floor beam shown at Contraction Joint, other locations similar.
1/2" = 1'-0"

Notes:
No web repairs may begin until both the lane load (half deck) above the web repair has been removed and the additional stiffener has been installed.

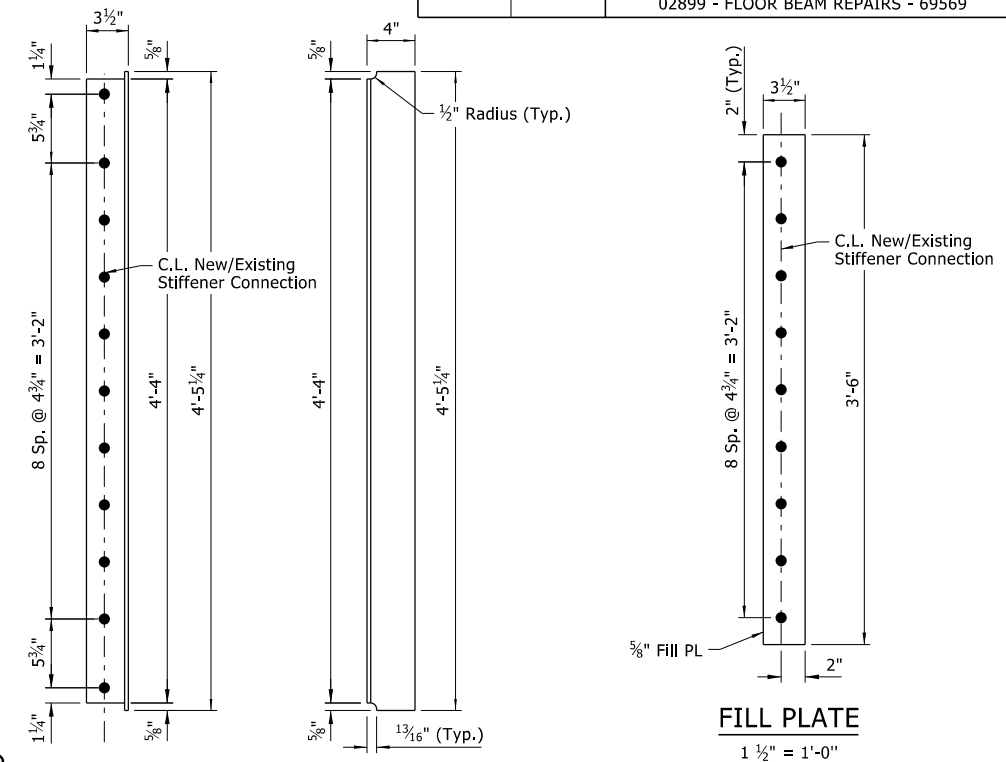
Contractor may taper additional stiffener to fit between existing angles.

The Contractor shall field verify all dimensions and locations including the bolt/rivet hole locations, spacings, and web damage extents. If any field measurement conflicts with the proposed information, notify the Engineer for further analysis.

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

Revised to add clip for fit.
By: MKL 10/19/2026
Checked by: HSS 10/19/2026

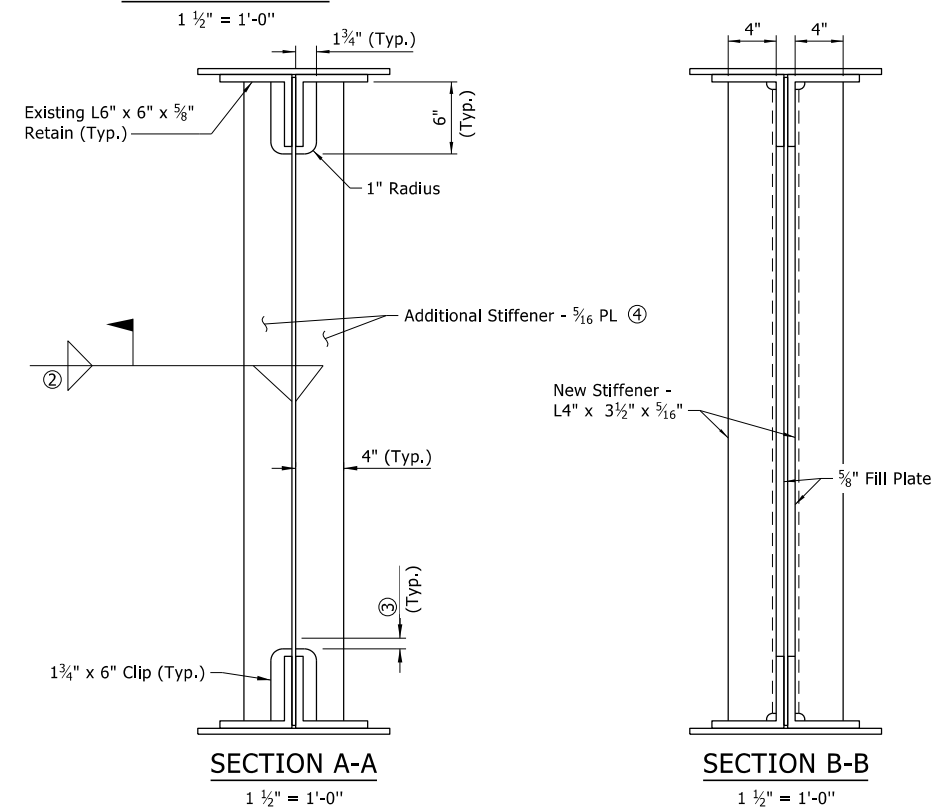
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
10/19/2026		6	ARK.	110812	75	107
02899 - FLOOR BEAM REPAIRS - 69569						



REPAIR D LOCATIONS:

Floor Beam	Stiffener
L4	1 & 9
L18	1 & 9
L36	9
L37	1 & 9
L38	1 & 9
L40	1 & 9
L41	1 & 9
L42	1 & 9
L44	9
L45	1 & 9
L46	1 & 9
L47	9
L48	1
L49	9
L50	1 & 9
L51	1 & 9
L52	1
L53	9
L54	1
L55	1 & 9
L60	9
L61	9
L62	1 & 9
L63	1 & 9
L64	9
L66	1 & 9
L67	1
L69	9
L70	9
L72	1
L73	9
L74	1 & 9

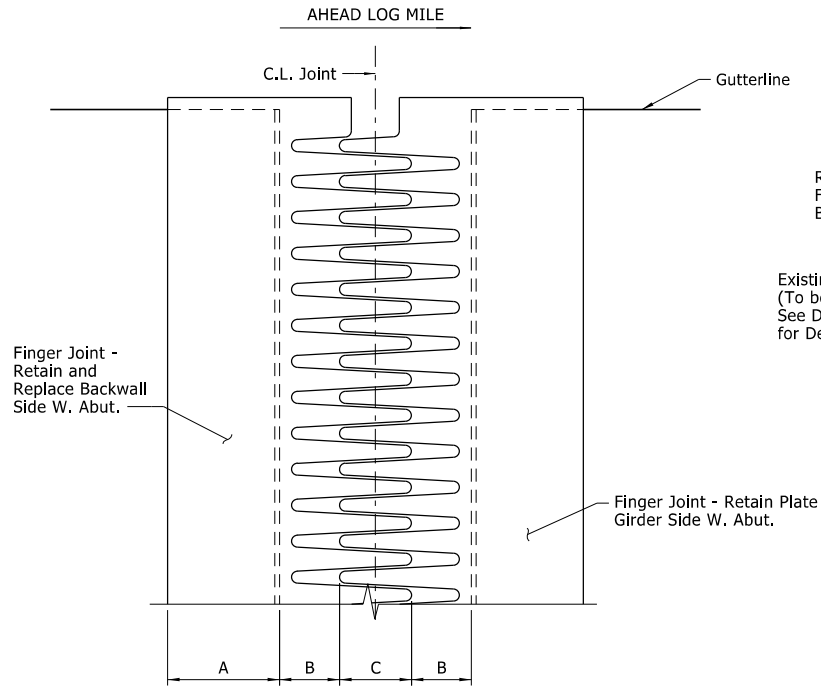
NEW STIFFENER



10-19-26
Hussam Saleem
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18919
HUSAM S. SALEEM
BRIDGE ENGINEER
PRINT DATE: 10/19/2026

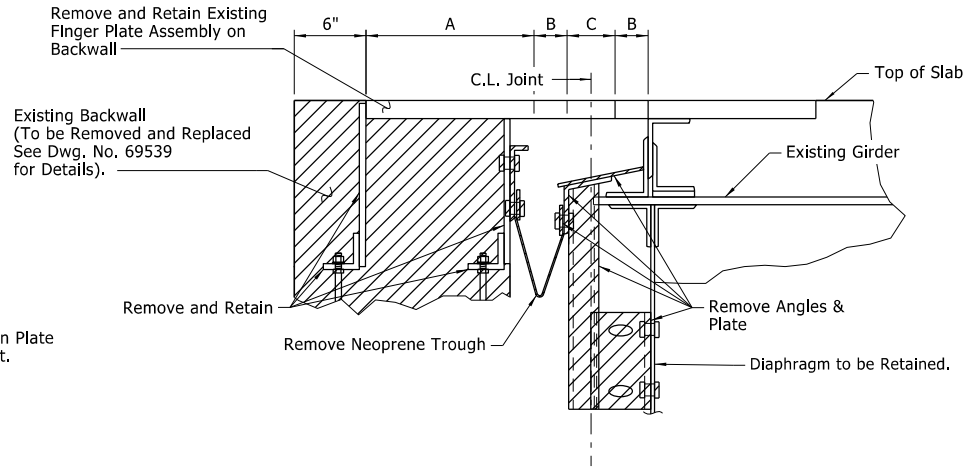
DETAILS OF FLOOR BEAM REPAIRS:
REPAIR TYPE D - STIFFENER REPLACEMENT
ROUTE SECTION
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: LAC DATE: 07/2025 FILENAME: B110812_FB4.DGN
CHECKED BY: HSS DATE: 07/2025 SCALE: AS SHOWN
DESIGNED BY: MHA DATE: 07/2025
BRIDGE NO. 02899 DRAWING NO. 69569

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
10/19/2026		6	ARK.	110812	93	107
02899 - EXP. JOINT - 69587						

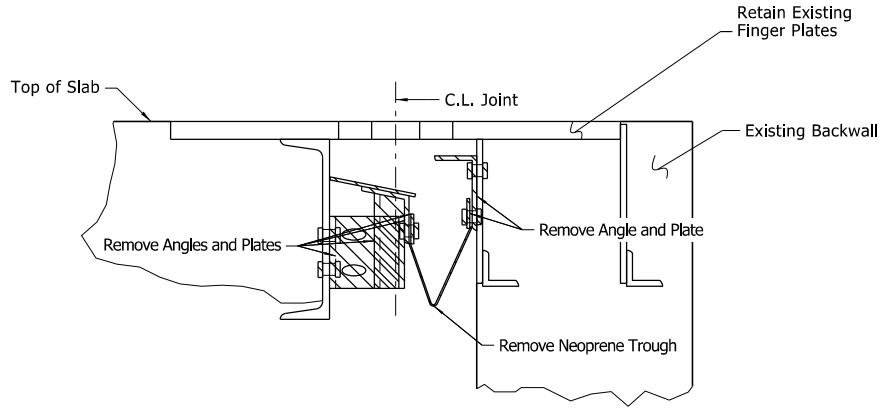


FINGER PLATE DETAILS
No Scale

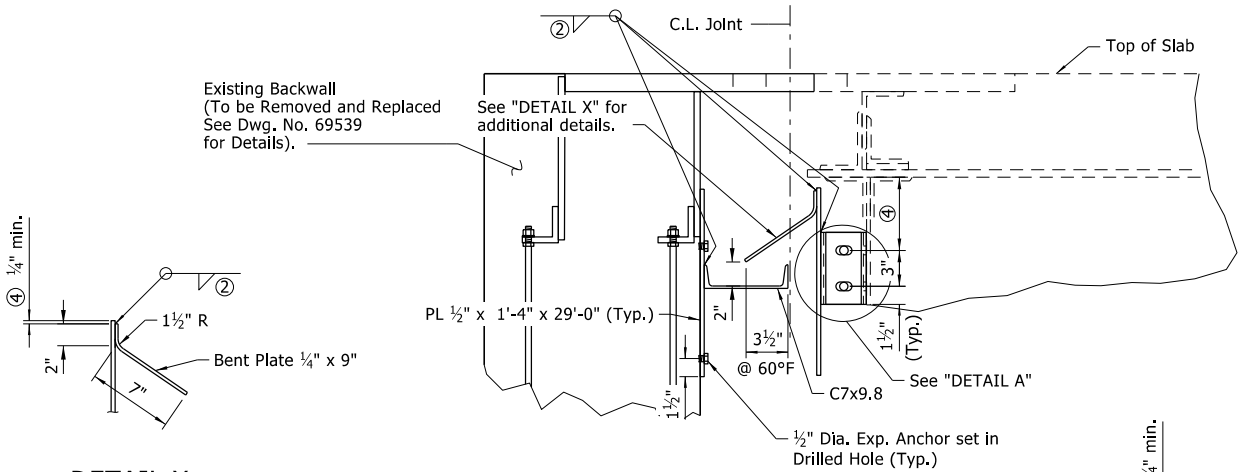
		"C" Width Perpendicular to Joint at 24 Hour Average Temperature ① Of:			
LOCATION	A	B	40°F	60°F	80°F
W. & E. Abutment	1'-2"	2¾"	3⅝"	4"	4⅜"



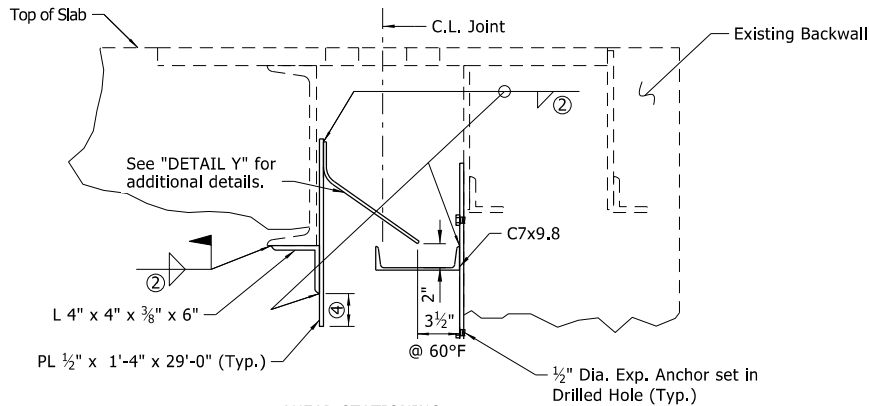
REMOVAL DETAILS OF JOINTS AT WEST ABUTMENTS
1½" = 1'-0"



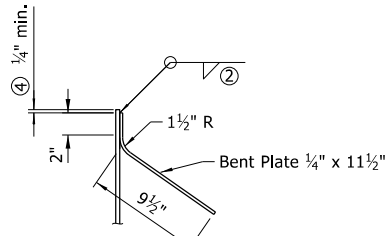
REMOVAL DETAILS OF JOINTS AT EAST ABUTMENTS
1½" = 1'-0"



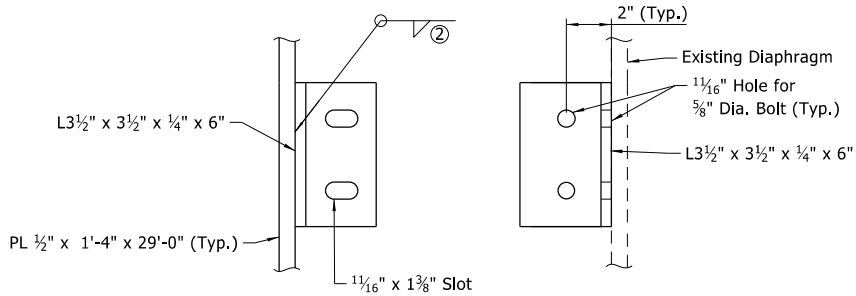
DETAIL X
1½" = 1'-0"



DETAILS OF JOINTS AT EAST ABUTMENTS
1½" = 1'-0"



DETAIL Y
1½" = 1'-0"



DETAIL A
3" = 1'-0"

Notes:
Drainage System is to be installed along slope to maintain proper water drainage.

⚠ All steel, unless noted otherwise, shall be ASTM A709, GR. 36. New Bent Plate and Channels (C7x9.8) and (C10x15.3) shall be galvanized, AASHTO M111, payment for these members 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 The existing channel is encased in concrete. The Contractor may remove concrete that interferes with the weld for new East Abutment Joint Assembly.

④ Varies

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

SHEET 1 OF 4
DETAILS OF APPROACH SPANS
EXPANSION JOINTS AND DRAINAGE SYSTEMS
ROUTE SECTION
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: MHA DATE: 01/2025 FILENAME: B110812_APJT.DGN
CHECKED BY: HSS DATE: 08/2025 SCALE: AS SHOWN
DESIGNED BY: MHA/LAC DATE: 08/2025
BRIDGE NO. 02899 DRAWING NO. 69587

10-19-2
Hussam Saleem
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18919
HUSAM S. SALEEM
BRIDGE ENGINEER
PRINT DATE: 10/19/2026