
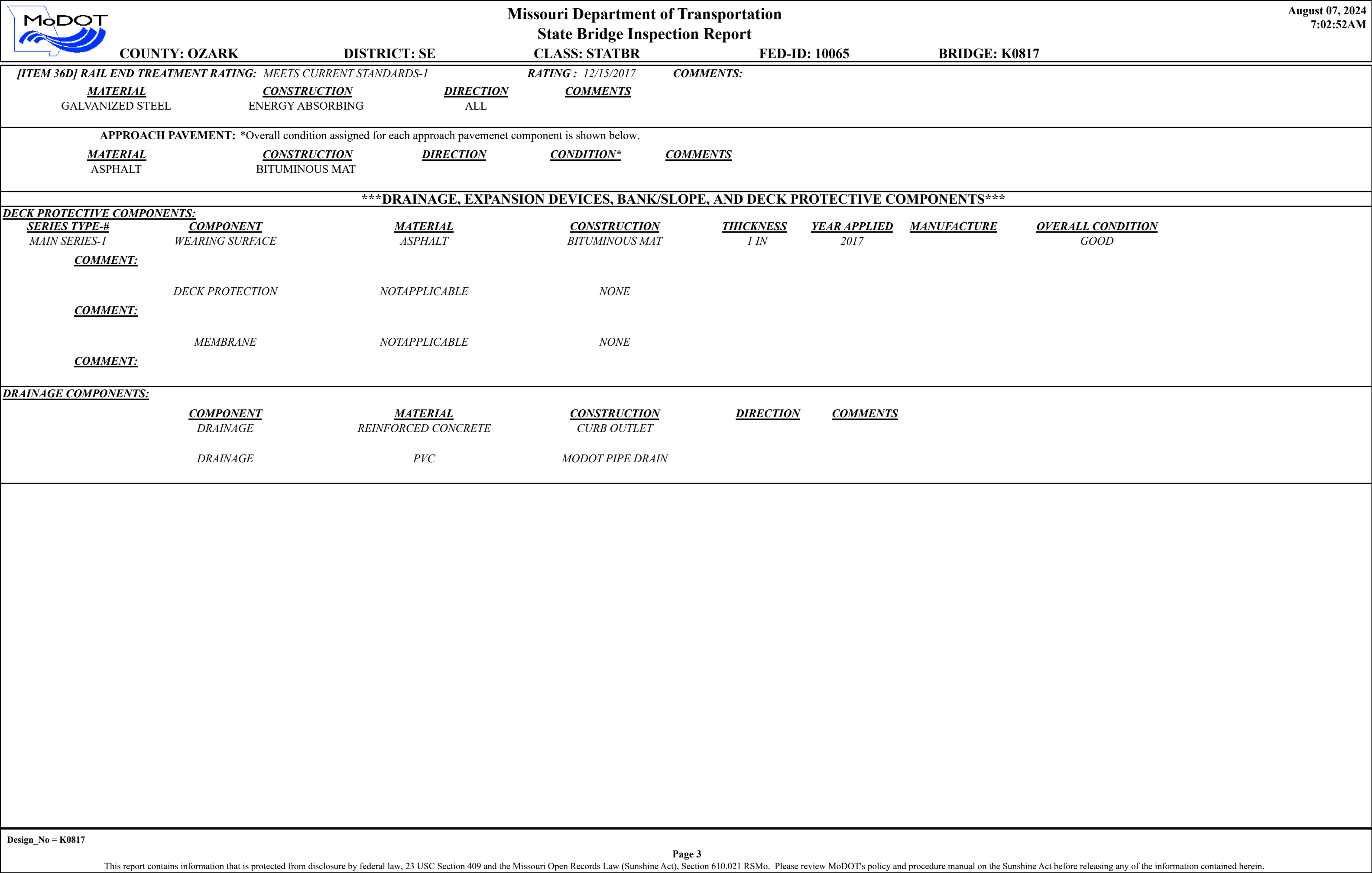
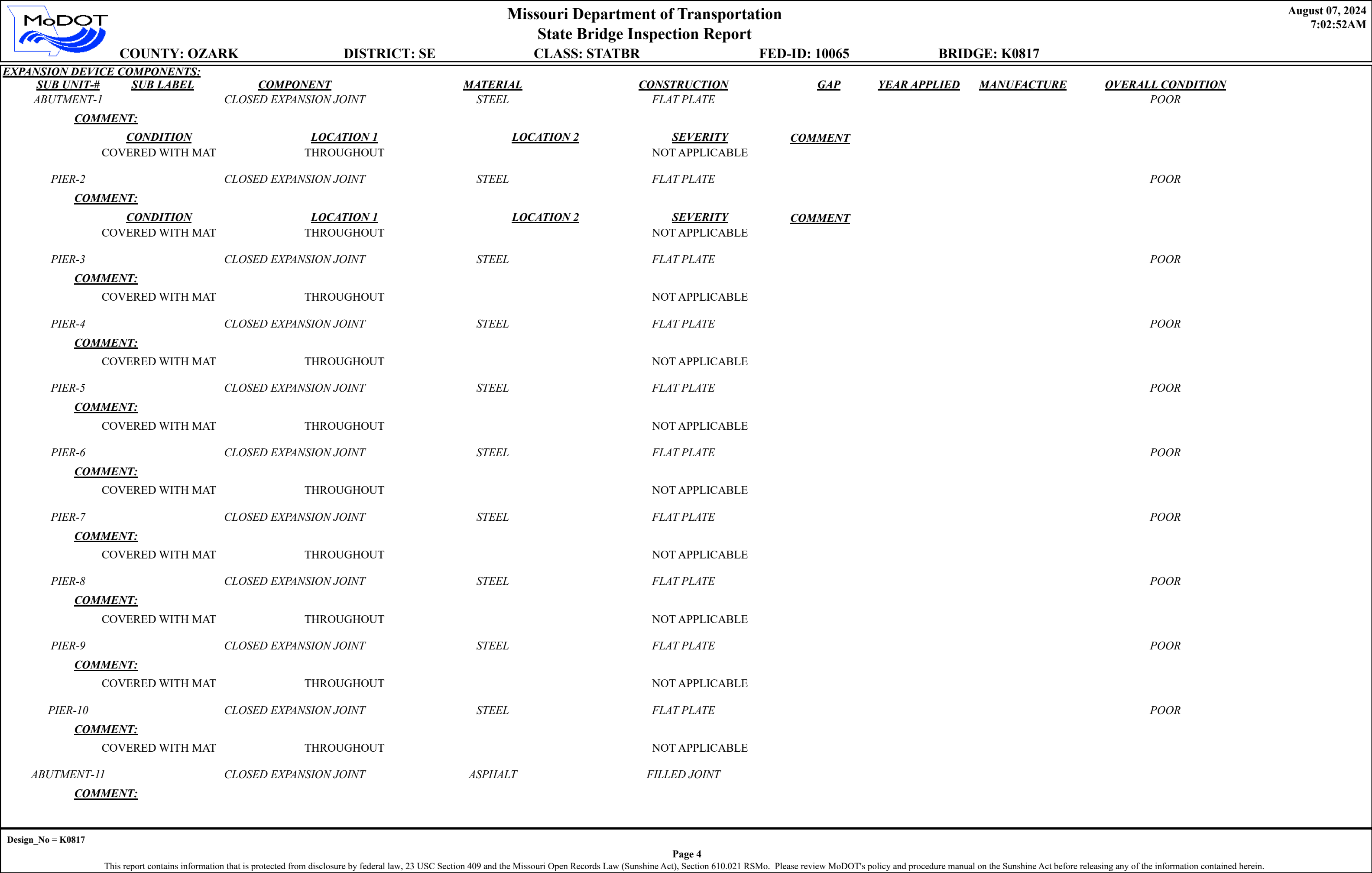
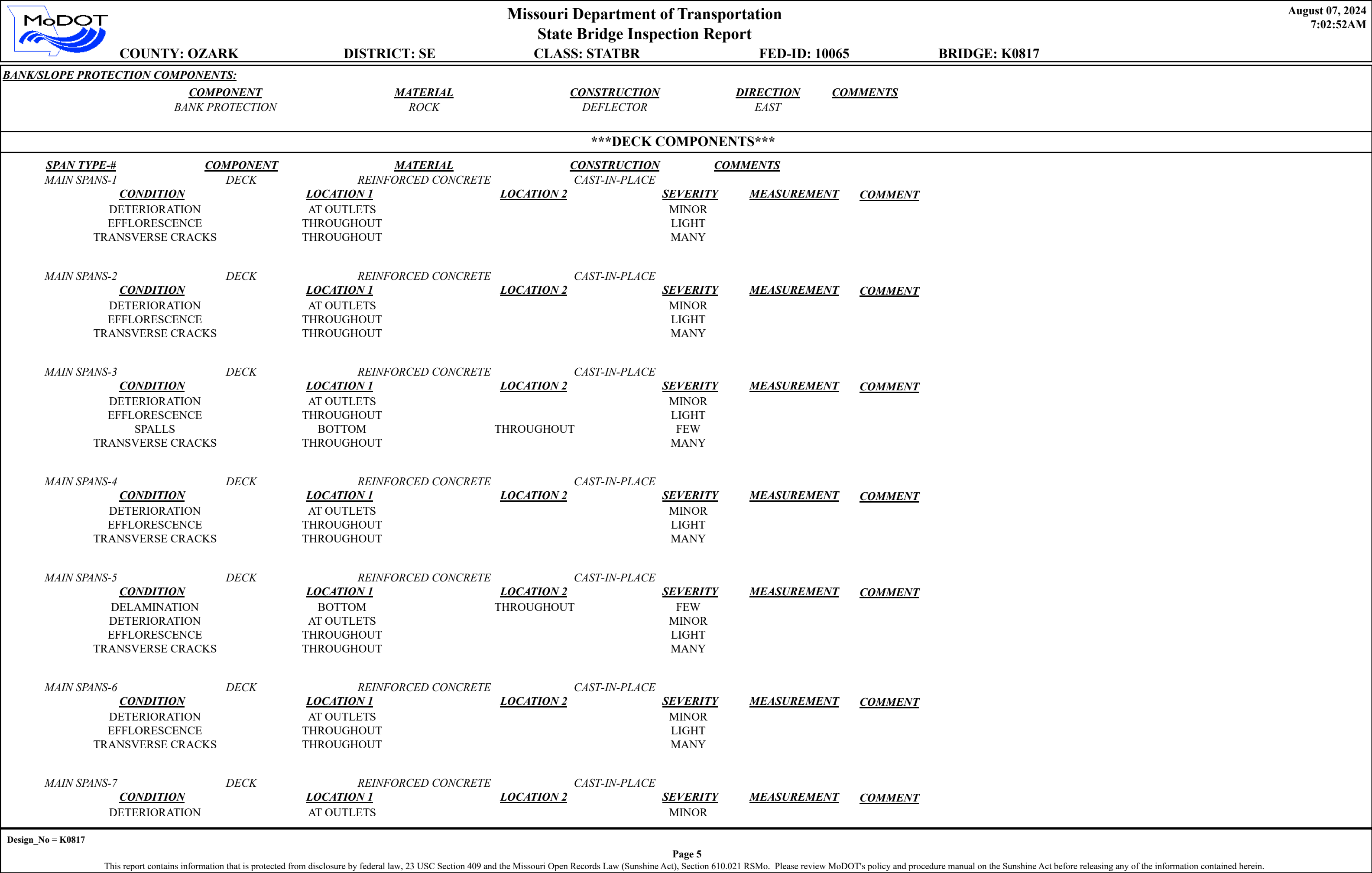
		Missouri Department of Transportation				August 07, 2024							
		State Bridge Inspection Report				7:02:52AM							
COUNTY: OZARK		DISTRICT: SE		CLASS: STATBR		FED-ID: 10065							
						BRIDGE: K0817							
GENERAL STRUCTURE INFORMATION						***BRIDGE INSPECTION INFORMATION***							
ROUTE: US160E FEATURE: BULL SHOALS LK STATUS: P-POSTLOAD LOG MILE: 179.894 DETOUR: 54.00 MILES NHS: NO BUILT: 1951 REHAB: LOCATION: S 19 T 22 R 15 W LATITUDE: 36 34 40.05 (DMS) LONGITUDE: 92 38 50.35 (DMS)		# SPANS: 10 LANES ON: 2 LANES UNDER: 0 COMPASS DIRECTION: WEST to EAST DIRECTION OF TRAFFIC: 2-WAY TRAF FUNCTIONAL CLASS: RL-MINOR ARTERIAL NBI OWNER: MODOT NBI MAINTAINED: MODOT MAINTENANCE DISTRICT: SE MAINTENANCE COUNTY: OZARK SUB AREA: 7H19		PLACE CODE: 36548 JASPER LENGTH: 1,817 FT 0 IN MAXIMUM SPAN: 181 FT 8 IN APPROACH ROADWAY: 24 FT 0 IN CURB TO CURB: 22 FT 0 IN OUT TO OUT: 24 FT 8 IN AADT: 1453 AADT YEAR: 2023 AADT TRUCK: 7.4% FUTURE AADT: 3051 FUTURE AADT YEAR: 2043		DATE: 10/24/2023 RESPONSIBILITY: BRIDGEDIV							
						FREQUENCY: 24 CALCULATED INTERVAL**: 24							
						TEAM LEADER: TERRY L SHUNAMON ELEMENT: NO							
						INSPECTOR 2: BRANDON SMITH (NTLQ) INSPECTOR 4:							
						INSPECTOR 3:							
						** When calculated interval exceeds the frequency, a justification comment per BIRM is required.							
FRACTURE CRITICAL INSPECTION INFORMATION						***INDEPTH INSPECTION INFORMATION***							
DATE: 10/24/2023 RESPONSIBILITY: BRIDGEDIV CATEGORY: THRU TRUSS				DATE: RESPONSIBILITY: CATEGORY:									
FREQUENCY: 24 CALCULATED INTERVAL**: 24 NBI: YES				FREQUENCY: CALCULATED INTERVAL**: NBI:									
TEAM LEADER: TERRY L SHUNAMON INSPECTOR 3:				TEAM LEADER: INSPECTOR 3:									
INSPECTOR 2: BRANDON SMITH (NTLQ) INSPECTOR 4:				INSPECTOR 2: INSPECTOR 4:									
** When calculated interval exceeds the frequency, a justification comment per BIRM is required.				** When calculated interval exceeds the frequency, a justification comment per BIRM is required.									
FRACTURE CRITICAL INSPECTION COMMENTS				INDEPTH INSPECTION COMMENTS									
SPECIAL INSPECTION INFORMATION						***UNDERWATER INSPECTION INFORMATION***							
DATE: 08/09/2022 RESPONSIBILITY: DIVETEAM CATEGORY: CHANNEL CROSS SEC				DATE: 08/09/2022 RESPONSIBILITY: DIVETEAM CATEGORY: DIVE									
FREQUENCY: 120 CALCULATED INTERVAL**: 109 NBI: NO				FREQUENCY: 60 CALCULATED INTERVAL**: 49 NBI: YES									
TEAM LEADER: JESSE ELSEMAN INSPECTOR 3: TERRY L SHUNAMON METHOD: EMD				TEAM LEADER: JESSE ELSEMAN INSPECTOR 3: TERRY L SHUNAMON METHOD: SCUBA									
INSPECTOR 2: ADAM ZENTZ INSPECTOR 4:				INSPECTOR 2: ADAM ZENTZ INSPECTOR 4:									
** When calculated interval exceeds the frequency, a justification comment per BIRM is required.				** When calculated interval exceeds the frequency, a justification comment per BIRM is required.									
SPECIAL INSPECTION COMMENTS				UNDERWATER INSPECTION COMMENTS									
(ELSEMJ, 08/11/2022)--SEE UNDERWATER WORKSHEET FOR CHANNEL CROSS SECTIONS													
OTHER SPECIAL INSPECTIONS				OTHER UNDERWATER INSPECTIONS									
DATE	FREQUENCY	CATEGORY	NBI	CALCULATED INTERVAL	RESPONSIBILITY	METHOD	DATE	FREQUENCY	CATEGORY	NBI	CALCULATED INTERVAL	RESPONSIBILITY	METHOD
05/15/2013	999	DAMAGE POST INCIDENT	NO		DISTRICT								
12/20/2011	999	GUSSET PLATES	NO		BRIDGEDIV	CLIMBER, OTHER							
Design_No = K0817													
Page 1													
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COUNTY: OZARK		DISTRICT: SE		CLASS: STATBR													
		FED-ID: 10065		BRIDGE: K0817													
STRUCTURE POSTING																	
APPROVED CATEGORY: S-9 6 AXLE TRUCKS OVER 33 TONS 15 MPH ON BRIDGE.																	
Ton 1: 33 Ton 2: Ton 3:																	
COMMENTS: (LYCZAG1, 02/08/2018)--EMAIL CORRESPONDENCE, 2/2/2018, MODOT																	
FIELD CATEGORY: S-9 6 AXLE TRUCKS OVER 33 TONS 15 MPH ON BRIDGE.																	
Ton 1: 33 Ton 2: Ton 3: PROBLEM: PROBLEM DIRECTION:																	
COMMENTS:																	
GENERAL COMMENTS/MAJOR RATED ITEMS																	
GENERAL COMMENTS: (MADSEJ, 11/15/2019)--10 @ (181') THRU TRUSS SMP SPANS																	
[ITEM 58] DECK: 4-POOR CONDITION COMMENTS: (MADSEJ, 12/15/2017)--MINOR TO MODERATE DECK EDGE DETERIORATION AT THE CURB OUTLETS.																	
RATING : 10/21/2021 (LISTED1, 10/21/2021)--RATING CHANGE DUE TO MANY MAPS CRACKS THROUGHOUT SPANS 4-10 W/ HEAVY DECK EDGE AND CURB OUTLET DETERIORATION																	
[ITEM 59] SUPER: 4-POOR CONDITION COMMENTS: (MADSEJ, 11/15/2019)--MODERATE TO ADVANCED SECTION LOSS AT THE BOTTOM OF THE WEB, BOTTOM FLANGE, AND TOP FLANGE THROUGHOUT																	
RATING : 12/15/2017 MOST OF THE END FLOORBEAMS.																	
[ITEM 60] SUB: 6-SATISFACTORY CONDITION COMMENTS: (STEGEC, 08/06/2018)--MINOR TO MODERATE CRACKING AND SPALLING THROUGHOUT A FEW OF THE PIER BEAMCAPS. TOP OF FOOTING EXPOSED																	
RATING : 05/18/2001 (2 FT.) ON ROCK AT PIER 5 PER DIVETEAM 2018																	
[ITEM 61] BANK/CHANNEL: 8-PROTECTED DEVICES STBLE COMMENTS: (STEGEC, 08/06/2018)--THE STRUCTURE IS OVER BULL SHOALS LAKE. WEST ABUTMENT FILL SLOPES ARE WELL PROTECTED WITH ROCK AND EAST																	
RATING : 05/18/2001 ABUTMENT SETS ON ROCK BLUFF AND BOTH ARE IN GOOD CONDITION.																	
[ITEM 113] SCOUR: 8-STABLE FOR CALCULATED COMMENTS: (ELSEMJ, 08/11/2022)--NO SCOUR OBSERVED																	
RATING : 05/18/2001																	
EVALUATION TYPE :																	
[ITEM 71] WATERWAY ADEQUACY: DECK ABOVE FLOOD ELEV COMMENTS:																	
RATING : 05/18/2001																	
[ITEM 72] APPRRDWY ALIGNMENT: 6-SATISFACTORY COMMENTS: (HULBES1, 11/01/2023)--MINOR SPEED REDUCTION REQUIRED ON EAST END																	
RATING : 05/18/2001																	
RAILING AND APPROACH PAVEMENT COMPONENTS AND RATINGS																	
[ITEM 36A] BRIDGE RAILING RATING: NOT PROVIDED-0 RATING : 05/18/2001 COMMENTS:																	
<table><tr><td><u>MATERIAL</u></td><td><u>CONSTRUCTION</u></td><td><u>DIRECTION</u></td><td><u>COMMENTS</u></td></tr><tr><td>REINFORCED CONCRETE</td><td>CURB</td><td>BOTH</td><td></td></tr><tr><td>STEEL</td><td>CHANNEL-DOUBLE</td><td>BOTH</td><td></td></tr></table>						<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>	REINFORCED CONCRETE	CURB	BOTH		STEEL	CHANNEL-DOUBLE	BOTH	
<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>														
REINFORCED CONCRETE	CURB	BOTH															
STEEL	CHANNEL-DOUBLE	BOTH															
[ITEM 36B] TRANSITION RAILING RATING: MEETS CURRENT STANDARDS-1 RATING : 12/15/2017 COMMENTS:																	
<table><tr><td><u>MATERIAL</u></td><td><u>CONSTRUCTION</u></td><td><u>DIRECTION</u></td><td><u>COMMENTS</u></td></tr><tr><td>GALVANIZED STEEL</td><td>THRIE BEAM TO W-BEAM</td><td>ALL</td><td></td></tr></table>						<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>	GALVANIZED STEEL	THRIE BEAM TO W-BEAM	ALL					
<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>														
GALVANIZED STEEL	THRIE BEAM TO W-BEAM	ALL															
[ITEM 36C] APPROACH RAILING RATING: MEETS CURRENT STANDARDS-1 RATING : 12/15/2017 COMMENTS:																	
<table><tr><td><u>MATERIAL</u></td><td><u>CONSTRUCTION</u></td><td><u>DIRECTION</u></td><td><u>COMMENTS</u></td></tr><tr><td>GALVANIZED STEEL</td><td>W-BEAM</td><td>ALL</td><td></td></tr></table>						<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>	GALVANIZED STEEL	W-BEAM	ALL					
<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>														
GALVANIZED STEEL	W-BEAM	ALL															
Design_No = K0817																	
Page 2																	
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Missouri Department of Transportation State Bridge Inspection Report

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COUNTY: OZARK

DISTRICT: SE

CLASS: STATBR

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BRIDGE: K0817

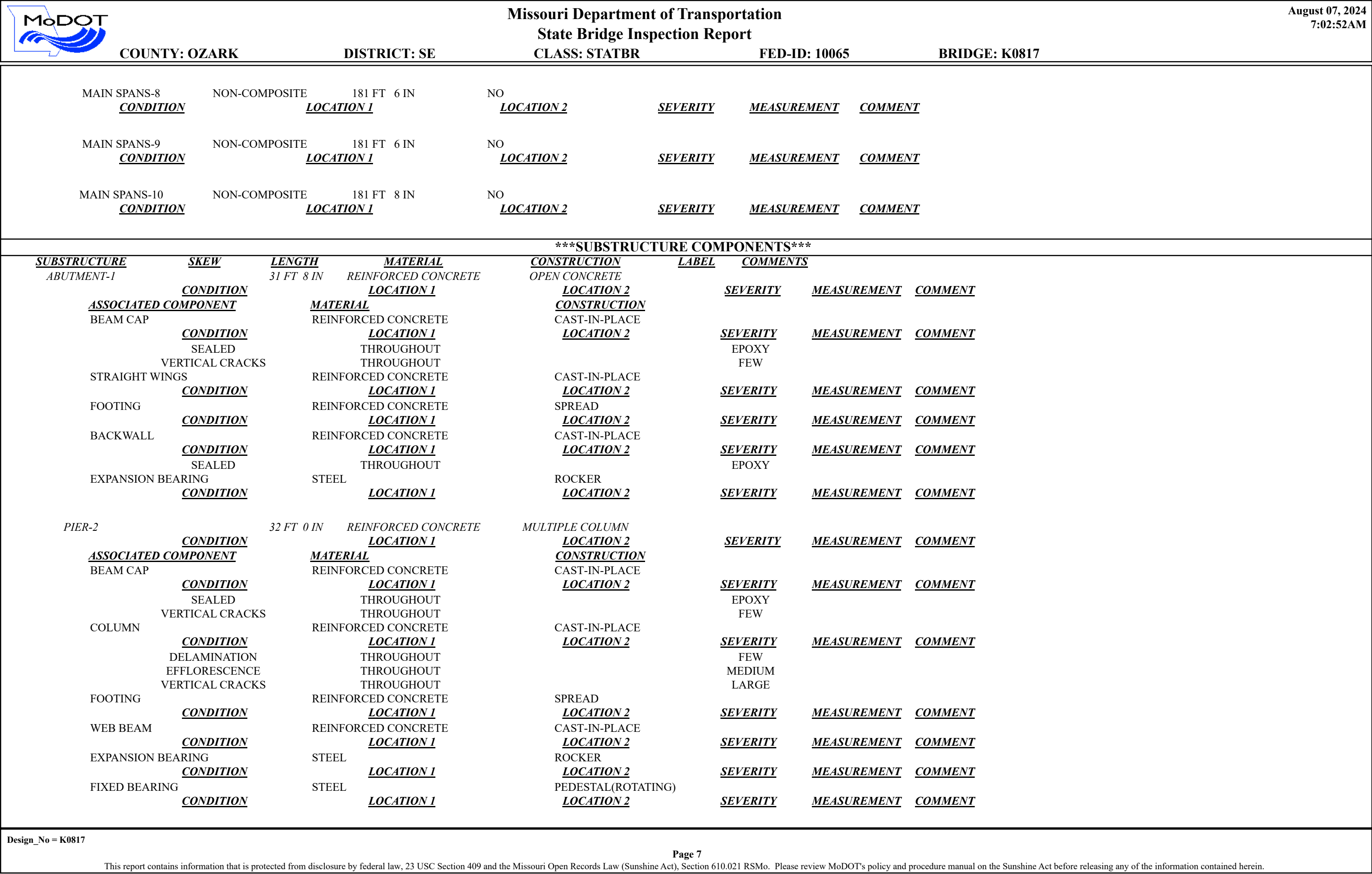
EFFLORESCENCE		THROUGHOUT	LIGHT	
TRANSVERSE CRACKS		THROUGHOUT	MANY	
MAIN SPANS-8	DECK	REINFORCED CONCRETE	CAST-IN-PLACE	
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>
DETERIORATION		AT OUTLETS		MINOR
EFFLORESCENCE		THROUGHOUT		LIGHT
TRANSVERSE CRACKS		THROUGHOUT		MANY
MAIN SPANS-9	DECK	REINFORCED CONCRETE	CAST-IN-PLACE	
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>
DETERIORATION		AT OUTLETS		MINOR
EFFLORESCENCE		THROUGHOUT		LIGHT
SPALLS		BOTTOM	THROUGHOUT	FEW
TRANSVERSE CRACKS		THROUGHOUT		MANY
MAIN SPANS-10	DECK	REINFORCED CONCRETE	CAST-IN-PLACE	
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>
DETERIORATION		AT OUTLETS		MINOR
EFFLORESCENCE		THROUGHOUT		LIGHT
TRANSVERSE CRACKS		THROUGHOUT		MANY

SUPERSTRUCTURE COMPONENTS

<u>SERIES TYPE-#</u>	<u>SPAN TYPE</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>LABEL</u>	<u>COMMENTS</u>
MAIN SERIES-1	SIMPLE SPAN	STEEL	THRU TRUSS		(MADSEJ, 11/15/2019)--SEE THE FRACTURE CRITICAL ELEMENT TABLE FOR DETAILED ACCOUNTING OF ALL TRUSS MEMBER CONDITIONS.
<u>SPAN</u>	<u>COMPOSITE INDICATOR</u>	<u>LENGTH</u>	<u>WEATHERING STEEL</u>	<u>COMMENTS</u>	
MAIN SPANS-1	NON-COMPOSITE	181 FT 8 IN	NO		
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u> <u>COMMENT</u>
MAIN SPANS-2	NON-COMPOSITE	181 FT 6 IN	NO		
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u> <u>COMMENT</u>
MAIN SPANS-3	NON-COMPOSITE	181 FT 6 IN	NO		
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u> <u>COMMENT</u>
MAIN SPANS-4	NON-COMPOSITE	181 FT 6 IN	NO		
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u> <u>COMMENT</u>
MAIN SPANS-5	NON-COMPOSITE	181 FT 6 IN	NO		
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u> <u>COMMENT</u>
MAIN SPANS-6	NON-COMPOSITE	181 FT 6 IN	NO		
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u> <u>COMMENT</u>
MAIN SPANS-7	NON-COMPOSITE	181 FT 6 IN	NO		
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u> <u>COMMENT</u>

Design_No = K0817

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Missouri Department of Transportation State Bridge Inspection Report

August 07, 2024
7:02:52AM

COUNTY: OZARK


DISTRICT: SE


CLASS: STATBR

FED-ID: 10065

BRIDGE: K0817

PIER-3		32 FT 0 IN	REINFORCED CONCRETE	MULTIPLE COLUMN				
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	<u>ASSOCIATED COMPONENT</u>		<u>MATERIAL</u>	<u>CONSTRUCTION</u>				
	BEAM CAP		REINFORCED CONCRETE	CAST-IN-PLACE				
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	SEALED		THROUGHOUT		EPOXY			
	VERTICAL CRACKS		THROUGHOUT		FEW			
	COLUMN		REINFORCED CONCRETE	CAST-IN-PLACE				
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	FOOTING		REINFORCED CONCRETE	SPREAD				
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	WEB BEAM		REINFORCED CONCRETE	CAST-IN-PLACE				
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	FIXED BEARING		STEEL	PEDESTAL(ROTATING)				
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	EXPANSION BEARING		STEEL	ROCKER				
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	PIER-4		32 FT 0 IN	REINFORCED CONCRETE	MULTIPLE COLUMN			
		<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
<u>ASSOCIATED COMPONENT</u>			<u>MATERIAL</u>	<u>CONSTRUCTION</u>				
BEAM CAP			REINFORCED CONCRETE	CAST-IN-PLACE				
<u>CONDITION</u>			<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
SEALED			THROUGHOUT		EPOXY			
VERTICAL CRACKS			THROUGHOUT		FEW			
COLUMN			REINFORCED CONCRETE	CAST-IN-PLACE				
<u>CONDITION</u>			<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
FOOTING			REINFORCED CONCRETE	SPREAD				
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	WEB BEAM		REINFORCED CONCRETE	CAST-IN-PLACE				
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	SPALLS		COLLISION WALL		FEW			
	VERTICAL CRACKS		COLLISION WALL		OPEN			
	FIXED BEARING		STEEL	PEDESTAL(ROTATING)				
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	EXPANSION BEARING		STEEL	ROCKER				
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
PIER-5		32 FT 0 IN	REINFORCED CONCRETE	MULTIPLE COLUMN				
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	<u>ASSOCIATED COMPONENT</u>		<u>MATERIAL</u>	<u>CONSTRUCTION</u>				
	BEAM CAP		REINFORCED CONCRETE	CAST-IN-PLACE				
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	SEALED		THROUGHOUT		EPOXY			
	VERTICAL CRACKS		THROUGHOUT		FEW			
	COLUMN		REINFORCED CONCRETE	CAST-IN-PLACE				
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	FOOTING		REINFORCED CONCRETE	SPREAD				
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	EXPOSED		TOP		MODERATE			
	WEB BEAM		REINFORCED CONCRETE	CAST-IN-PLACE				
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	


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COUNTY: OZARK		DISTRICT: SE		CLASS: STATBR		FED-ID: 10065		BRIDGE: K0817
DIAGONAL CRACKS VERTICAL CRACKS FIXED BEARING EXPANSION BEARING		WALL AT WALL STEEL STEEL		PEDESTAL(ROTATING) ROCKER PEDESTAL(ROTATING) ROCKER		FEW FEW FEW FEW		
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
PIER-6		32 FT 0 IN	REINFORCED CONCRETE	MULTIPLE COLUMN				
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
<u>ASSOCIATED COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>				
BEAM CAP		REINFORCED CONCRETE		CAST-IN-PLACE				
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
SEALED		THROUGHOUT				EPOXY		
VERTICAL CRACKS		THROUGHOUT				FEW		
COLUMN		REINFORCED CONCRETE		CAST-IN-PLACE				
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
FOOTING		REINFORCED CONCRETE		SPREAD				
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
WEB BEAM		REINFORCED CONCRETE		CAST-IN-PLACE				
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
FIXED BEARING		STEEL		PEDESTAL(ROTATING)				
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
EXPANSION BEARING		STEEL		ROCKER				
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
PIER-7		32 FT 0 IN	REINFORCED CONCRETE	MULTIPLE COLUMN				
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
<u>ASSOCIATED COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>				
BEAM CAP		REINFORCED CONCRETE		CAST-IN-PLACE				
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
SEALED		THROUGHOUT				EPOXY		
VERTICAL CRACKS		THROUGHOUT				LARGE		
COLUMN		REINFORCED CONCRETE		CAST-IN-PLACE				
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
FOOTING		REINFORCED CONCRETE		SPREAD				
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
WEB BEAM		REINFORCED CONCRETE		CAST-IN-PLACE				
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
FIXED BEARING		STEEL		PEDESTAL(ROTATING)				
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
EXPANSION BEARING		STEEL		ROCKER				
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
PIER-8		32 FT 0 IN	REINFORCED CONCRETE	MULTIPLE COLUMN				
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
<u>ASSOCIATED COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>				
BEAM CAP		REINFORCED CONCRETE		CAST-IN-PLACE				
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
SEALED		THROUGHOUT				EPOXY		
VERTICAL CRACKS		THROUGHOUT				LARGE		
COLUMN		REINFORCED CONCRETE		CAST-IN-PLACE				


		Missouri Department of Transportation				August 07, 2024	
		State Bridge Inspection Report				7:02:52AM	
COUNTY: OZARK		DISTRICT: SE		CLASS: STATBR	FED-ID: 10065	BRIDGE: K0817	
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
FOOTING		REINFORCED CONCRETE		SPREAD			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
WEB BEAM		REINFORCED CONCRETE		CAST-IN-PLACE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
FIXED BEARING		STEEL		PEDESTAL(ROTATING)			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
EXPANSION BEARING		STEEL		ROCKER			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
PIER-9		32 FT 0 IN	REINFORCED CONCRETE	MULTIPLE COLUMN			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
<u>ASSOCIATED COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>			
BEAM CAP		REINFORCED CONCRETE		CAST-IN-PLACE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	SEALED	THROUGHOUT			EPOXY		
	VERTICAL CRACKS	THROUGHOUT			LARGE		
COLUMN		REINFORCED CONCRETE		CAST-IN-PLACE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
FOOTING		REINFORCED CONCRETE		SPREAD			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
WEB BEAM		REINFORCED CONCRETE		CAST-IN-PLACE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
FIXED BEARING		STEEL		PEDESTAL(ROTATING)			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
EXPANSION BEARING		STEEL		ROCKER			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
PIER-10		32 FT 0 IN	REINFORCED CONCRETE	MULTIPLE COLUMN			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
<u>ASSOCIATED COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>			
BEAM CAP		REINFORCED CONCRETE		CAST-IN-PLACE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	SEALED	THROUGHOUT			EPOXY		
	VERTICAL CRACKS	THROUGHOUT			LARGE		
COLUMN		REINFORCED CONCRETE		CAST-IN-PLACE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
FOOTING		REINFORCED CONCRETE		SPREAD			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
WEB BEAM		REINFORCED CONCRETE		CAST-IN-PLACE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
EXPANSION BEARING		STEEL		ROCKER			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
FIXED BEARING		STEEL		PEDESTAL(ROTATING)			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
ABUTMENT-11		29 FT 2 IN	REINFORCED CONCRETE	NON-INTEGRAL			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
<u>ASSOCIATED COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>			
BEAM CAP		REINFORCED CONCRETE		CAST-IN-PLACE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>

Design_No = K0817

Page 10

This report contains information that is protected from disclosure by federal law, 23 USC Section 409 and the Missouri Open Records Law (Sunshine Act), Section 610.021 RSMo. Please review MoDOT's policy and procedure manual on the Sunshine Act before releasing any of the information contained herein.

		Missouri Department of Transportation				August 07, 2024	
		State Bridge Inspection Report				7:02:52AM	
COUNTY: OZARK		DISTRICT: SE		CLASS: STATBR		FED-ID: 10065	
						BRIDGE: K0817	
VERTICAL CRACKS		THROUGHOUT		FEW			
STRAIGHT WINGS		REINFORCED CONCRETE		CAST-IN-PLACE			
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u> <u>MEASUREMENT</u> <u>COMMENT</u>	
BACKWALL		REINFORCED CONCRETE		CAST-IN-PLACE			
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u> <u>MEASUREMENT</u> <u>COMMENT</u>	
FIXED BEARING		STEEL		PEDESTAL(ROTATING)			
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u> <u>MEASUREMENT</u> <u>COMMENT</u>	
OVER/UNDER ROUTES CLEARANCE INFORMATION							
<u>CLEARANCES OVER DECK</u>		**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.					
<u>VERTICAL CLEARANCE TYPE**</u>		<u>VALUE</u>		<u>DIRECTION</u>		<u>DATE</u> <u>COMMENT</u>	
ACTUAL		15 FT 4 IN				06/27/2017	
<u>CLEARANCES UNDER BRIDGE</u>		**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.					
<u>RECORD #</u>		<u>ROUTE</u>		<u># LANES</u>		<u>DIRECTION OF TRAFFIC</u>	
<u>VERTICAL CLEARANCE TYPE**</u>		<u>VALUE</u>		<u>DIRECTION</u>		<u>DATE</u> <u>COMMENT</u>	
STRUCTURE PAINT INFORMATION							
CONDITION:		VERY GOOD		RUST AMOUNT : 9=.03% OF SURFACE RUSTED		STEEL TONS : 1,122	
<u>ORIGINAL PAINT</u>				<u>CONTRACT REPAINT</u>		<u>DEPARTMENT REPAINT</u>	
PAINT TYPE :				PAINT TYPE : G SYSTEM		PAINT TYPE :	
NAME :				NAME : ZINC/EPOXY/ACRYLIC		NAME :	
PAINT COLOR :				PAINT COLOR : BROWN		PAINT COLOR :	
PAINT YEAR :				PAINT YEAR : 2016		PAINT YEAR :	
MILS :				MILS : 12		MILS :	
REQUESTED WORK ITEMS							
GENERAL WORK COMMENTS:							
Design_No = K0817							
Page 11							
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		Missouri Department of Transportation				August 07, 2024	
		State Bridge Inspection Report				7:02:52AM	
COUNTY: OZARK		DISTRICT: SE		CLASS: STATBR		FED-ID: 10065	
						BRIDGE: K0817	
RESPONSIBILITY		LOCATION		ITEM		CATEGORY	
DISTRICT SPECIAL		ROADWAY SURFACE		REPAIR CONCRETE > 50 SF		DECK	
DISTRICT SPECIAL		SEE COMMENT		REPLACE JOINTS		DECK	
REGIONAL		SUPER-TRUSS		REPAIR SECT LOSS IN MEMBR		SUPERSTRUCTURE	
						PRIORITY	
						2	
						2	
						2	
						DATE	
						10/14/2015	
						12/15/2017	
						12/15/2017	
						WORK ITEM COMMENT	
						(HAGEMD1, 10/30/2015)--REPLACE JOINTS OVER ALL PIERS TO PROTECT FLOOR BEAMS AND PIER CAPS	
						(HAGEMD1, 10/30/2015)--REPAIR SECTION LOSS IN FLOOR BEAMS (WEBS AND/OR FLANGES) AT PIERS 2, 4, 6, 7, 8 & 9 UNDER JOINTS.	
UTILITY ATTACHMENTS							
UTILITY		OWNER		METHOD		MEASUREMENT TYPE	
ELECTRIC				HANGER		VALUE	
TELEPHONE				HANGER		NUMBER	
						4	
						1	
						UTILITY ATTACHMENT COMMENT	
						(PRINCH, 09/25/2002)--ON SOUTH SIDE	
						(BOWDEJ1, 10/15/2003)--PHONE LINE ATTACHED TO NORTH SIDE & POWER LINES ATTACHED TO SOUTH SIDE	
PROGRAM NOTES INFORMATION							
YEAR		PROJECT #		MONTH LET		YEAR LET	
2025		9P3728		1		2025	
2016		9P3024		0		0	
						ITEMS	
						OTHER	
						REPAINT, SUPERSTRUCTURE REPAIR, WEARING SURFACE	
						COMMENT	
						(BRAWLK1, 03/10/2022)--BRIDGE WASHING	
COMPUTER GENERATED RATINGS AND DEFICIENCY ITEMS						***ADVANCED SIGN INFORMATION***	
NOTE: The items listed in this section are updated whenever computer edits are ran on a structure after the inspection updates have been entered in to TMS.						SIGN #	
						1	
Rated Item						SIGN TYPE	
[Item 67] Structure Evaluation Rating:						4-MEETS MINIMUM TOLERABLE	
[Item 68] Deck Geometry Rating:						2-BASICALLY INTOLRBLE REQ	
[Item 69] Underclearance:						N-NOT APPLICABLE	
Sufficiency Rating:						17.9%	
Deficiency:						STRUCTURAL	
Funding Eligibility:						FULL	
Estimated New Structure Length:						49 FT.	
Estimated Structure Cost:						\$17,570,970	
Estimated Total Project Cost:						\$26,356,455	
Year of Cost Estimate:						2024	
NOTE: The above structure length and cost estimates are computer generated using algorithms in the TMS system. These algorithms are generalized to use NBI items to come up with a new structure length and width to calculate a new area which is taken times a representative cost per square foot. The actual structure size and cost may vary significantly from these numbers once site specific engineering is done.						***OUTFALL INSPECTION INFORMATION***	
						# OUTFALLS:	
						INSPECTOR:	
						STATUS:	
						DATE:	
						NOTES:	



Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

August 7, 2024
7:04:26am

COUNTY : OZARK BRIDGE : K0817 2 REVIEW STATUS : APPROVED NBI STATUS : T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 3/15/2024 SUBMITTAL YEAR : 2024

GENERAL STRUCTURE INFORMATION			ROUTE DESIGNATION INFORMATION		
1	State	MISSOURI	5A	Record Type	ROUTE CARRIED 'ON' STRUCT
2	District	SE	5B	Route Signing Prefix	US
3	County	OZARK	5C	Designated Level of Service	MAINLINE
8	Federal ID No.	10065	5D	Route Number	00160
27	Year Built	1951	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	0	7	Facility Carried	US 160 E
42A	Type of Service On	HIGHWAY	12	Base Hwy. Network	YES
21	Structure Maintenance	STATE HIGHWAY AGENCY	13A	LRS Inventory Route No.	0000007806
22	Structure Owner	STATE HIGHWAY AGENCY	13B	Subroute No.	00
33	Br. Median Code	NO MEDIAN	20	Toll Status	ON FREE ROAD
37	Historical Significance	ELIGIBLE FOR NR OF HP	26	Functional Classification	06-RURAL MINOR ARTERIAL
101	Parallel Struc Desg	NONE EXISTS	28A	Lanes on Structure	02
103	Temporary Structure	NOT TEMPORARY	100	STRAHNET Designation	RTE NOT A DEFENSE HWY
112	NBIS Bridge Length	YES	104	National Highway System	NOT ON NHS
			105	Federal Lands Highway	NOT APPLICABLE
			110	Designated Nat. Network	NO
STRUCTURE LOCATION INFORMATION			STRUCTURE TRAFFIC INFORMATION		
4	Place	JASPER	29	AADT	1453
	Code	36548	30	AADT Year	2023
9	Location	S 19 T 22 N R 15 W	102	Direction of Traffic	2-WAY TRAFFIC
11	Milepoint	180.95 miles	109	AADT Truck Percent	7%
16	Latitude	36 D 34 M 40 S	114	Future AADT	3051
17	Longitude	92 D 38 M 50 S	115	Future AADT Year	2043
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	BULL SHOALS LK	10	Inventory Rte. Vert. Clear	13 Ft. 6 In.
42B	Type of Service Under	WATERWAY	19	By pass Detour Length	54.38 miles
28B	Lanes Under Structure	00	32	Approach Roadway Width	23 Ft. 11 In.
54A	Vert. Clearance Ref.	N/A	34	Skew	0.00 Degrees
54B	Vert. Clearance	0 Ft. 0 In.	35	Struct. Flared	NO
55A	Rt. Lat Clear Ref.	N/A	47	Total Horiz. Clear	21 Ft. 12 In.
55B	Rt. Lat Clearance	0 Ft. 0 In.	48	Maximum Span Length	181 Ft. 9 In.
56	Left Lat Clearance	0 Ft. 0 In.	49	Structure Length	1,816 Ft. 11 In.
38	Navigation Control	PERMIT NOT REQ	50A	Left Curb/Sidewalk Width	0 Ft. 0 In.
39	Nav Vertical Clear	0 Ft. 0 In.	50B	Right Curb/Sidewalk Width	0 Ft. 0 In.
40	Nav Horizontal Clear	0 Ft. 0 In.	51	Curb to Curb Br. Width	21 Ft. 12 In.
111	Nav. Pier Protection		52	Deck Width (Out-Out)	24 Ft. 7 In.
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	13 Ft. 6 In.

Design_No = K0817 and Inventory_Appraisal_Submittal_Year = 2024



Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

August 7, 2024
7:04:26am

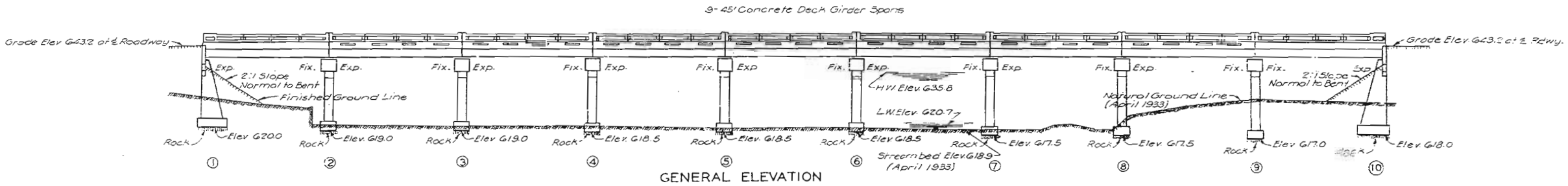
COUNTY : OZARK BRIDGE : K0817 2 REVIEW STATUS : APPROVED NBI STATUS : T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 3/15/2024 SUBMITTAL YEAR : 2024

LOAD RATING AND POSTING INFORMATION			MATERIAL/CONSTRUCTION INFORMATION		
31	Design Load	H 15	43A	Main Struc. Mat type	STEEL
41	Structure Status	POSTED FOR LOAD	43B	Main struc Constr. Type	TRUSS - THRU
63	Oper. Rating Meth.	LOAD FACTOR	45	# of Main Spans	10
64	Operating Rating	35 Tons.	44A	Appr Struc. Mat type	000
65	Inventory Rating Meth	LOAD FACTOR	44B	Appr Struc. Cnstr. type	000
66	Inventory Rating	21 Tons.	46	# of Approach Span	0
70	Bridge Posting Code	0.1-9.9% BELOW	107	Deck Mat/Constr.	1 CONCRETE CIP
PROPOSED IMPROVEMENT INFORMATION			108A	Wear Surf Mat/Constr.	6 BITUMINOUS
Sufficiency Rating 17.9 Percent			108B	Membrane Mat/Constr.	0 NONE
Deficiency Rating STRUCTURAL			108C	Deck Protect Mat/Constr.	0 NONE
Funding Eligibility FULL			CONDITION RATING INFORMATION		
75A	Proposed Work	REPLACEMENT SUBSTND LOAD	58	Deck Cond. Rating	4
75B	Work Done By	Contract	59	Superstructure Cond. Rating	4
76	New Struc Length	1,817 Ft. 7 In.	60	Substructure Cond. Rating	6
94	Struc Improve Cost	\$ 17,571,000	61	Channel /Channel Protection Cond. Rating	8
95	Roadway Improve Cost	\$ 1,757,000	62	Culvert Cond. Rating	N
96	Total Project Cost	\$ 26,356,000	INSPECTION INFORMATION		
97	Year of Cost Estimates	2024	90	Gen. Insp Date	10 / 23
APPRAISAL RATING INFORMATION			91	Gen. Insp. Frequency	24 Months
36A	Br. Rail App. Rating	DOES NOT MEET ACCEPT STND	92A	Frac. Critical Inspection	Y Months 24
36B	Transition Rail App. Rating	MEETS ACCEPTBLE STND	93A	Frac. Critical Insp. Date	10 / 23
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND	92B	Underwater Inspection	Y Months 60
36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND	93B	Underwater Insp. Date	8 / 22
67	Struc Eval App. Rating	4	92C	Special Inspection	N Months
68	Deck Geometry App. Rating	2	93C	Special Inspection Date	
69	Underclearance App. Rating	N	BORDER BRIDGE INFORMATION		
71	Waterway Adeq. App. Rating	8	98	Neighboring State Code	
72	Approach Road App. Rating	6	98B	Neighboring State % Respon	
113	Scour Assess App. Rating	8	99	Neighboring State Struc. No.	
APPROVED POSTING INFORMATION			FIELD POSTING INFORMATION		
Approved Posting Category S-9			Field Posting Category S-9		
Ton1 Ton2 Ton3			Ton1 Ton2 Ton3		
Tonnage Values for Posting Sign 33			Tonnage Values for Posting Sign 33		
General Text for Posting Sign			General Text for Posting Sign		
6 AXLE TRUCKS OVER 33 TONS 15 MPH ON BRIDGE.			6 AXLE TRUCKS OVER 33 TONS 15 MPH ON BRIDGE.		

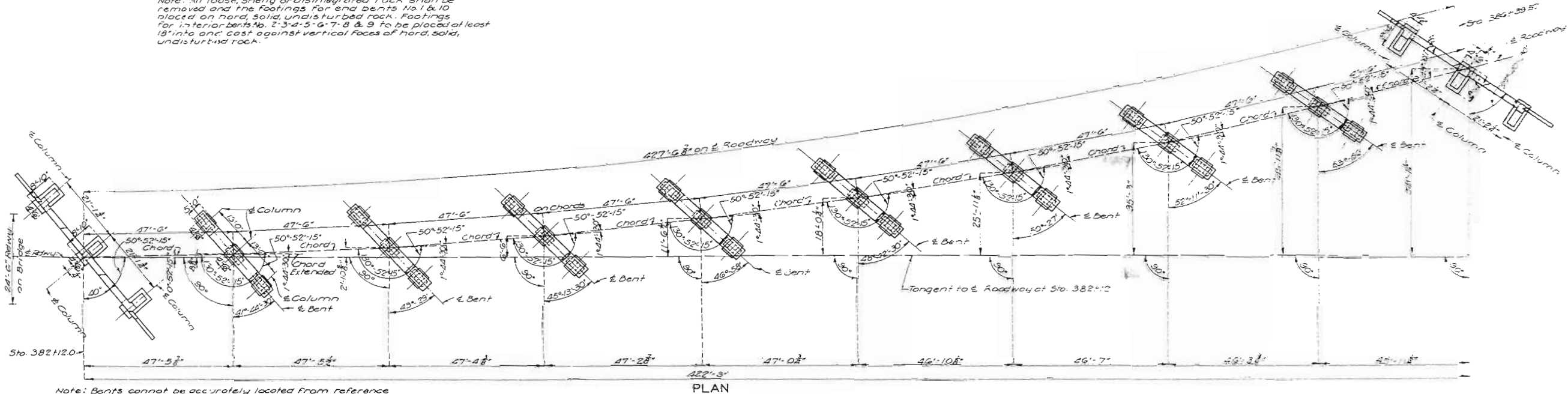
Design_No = K0817 and Inventory_Appraisal_Submittal_Year = 2024

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	277	1933	18	



Note: All loose, shelly or disintegrated rock shall be removed and the footings for end bents No. 1 & 10 placed on hard, solid, undisturbed rock. Footings for interior bents No. 2-9 to be placed at least 18" into and cast against vertical faces of hard, solid, undisturbed rock.



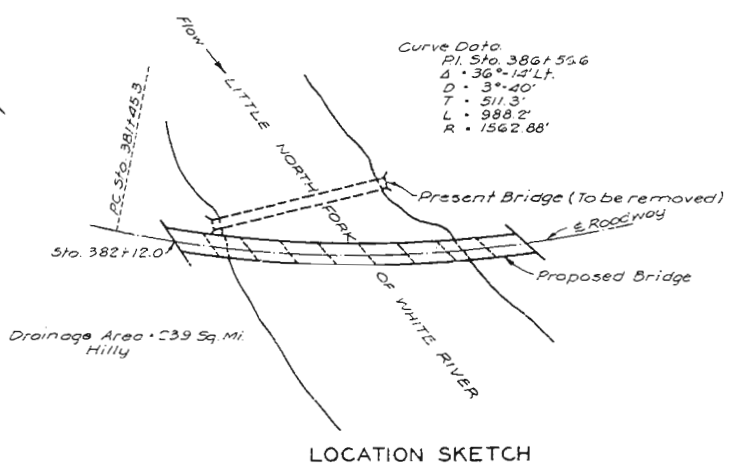
Note: Bents cannot be accurately located from reference point on the tangent by the conventional survey methods based on 100' chords.

GENERAL NOTES:-

Design Spec. Provisions 44.5 H.O.
Loading N.E. 44.5 H.O.
Reinforcing Steel 5-ess 18000 psi
Class B Concrete 9000 psi
All concrete shall be Class B.

Replaced With K-871R

NOTE "A" - THIS BRIDGE TO BE REMOVED UNDER PROJECT RT. SC (80) SEC. 3-A.



ESTIMATED QUANTITIES			
Item	Superstructure	Substructure	Total
Class 1 Excavation for Struct. Cu Yds		200	200
Class 2 Excavation for Struct. Cu Yds		127	127
Class B Concrete (Handrail) Cu Yds	490		490
Class B Concrete Cu Yds	625.3	308.9	1027.2
Reinforcing Steel Lbs.	203,400	32,680	235,820
Gray Iron Alloy Castings Lbs.	7810		7810

Note: Excavation for bridge made above Elev G210 will be paid for as Class 1 Excavation for Structures.
Excavation for bridge made below Elev G210 will be paid for as Class 2 Excavation for Structures.

BRIDGE OVER LITTLE N. FORK OF WHITE RIVER

STATE ROAD FROM THEODOSIA TO GAINSVILLE
ABOUT 57 MILES WEST OF WEST PLAINS
PROJECT NO. FAS 425-C(1) (S.C.) STA. 382+12.0

OZARK COUNTY

SUBMITTED BY: M.R. Sack DATE: 8/29/31
APPROVED BY: C.W. Brown DATE: 8/29/31

STD C-10 R2
K-817

180

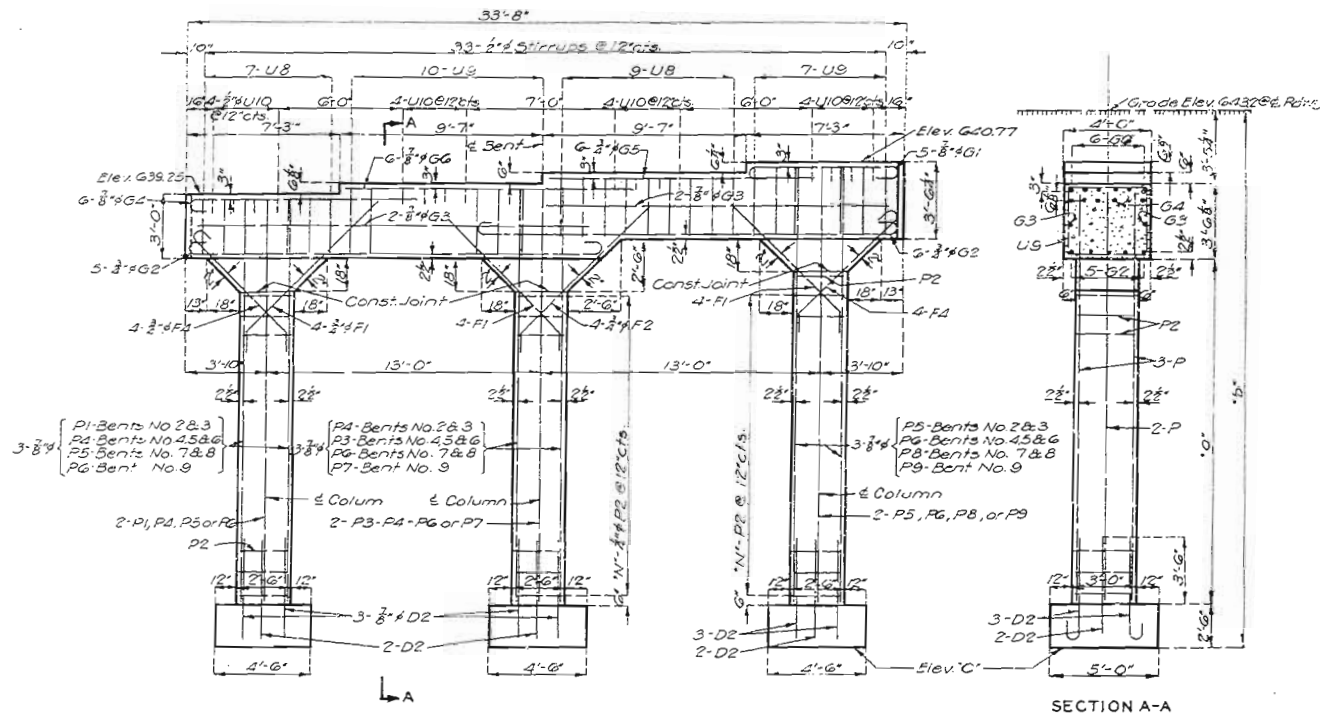
Drawn June 1941 by J.G.
Traced June 1941 by C.S.
Checked Aug. 1941 by R.A.S.

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

Sheet No. 1 of 6.

MISSOURI STATE HIGHWAY DEPARTMENT

PROJ. NO.	STATE	FED. AID	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
212-252	MO	212-252	15	1	1



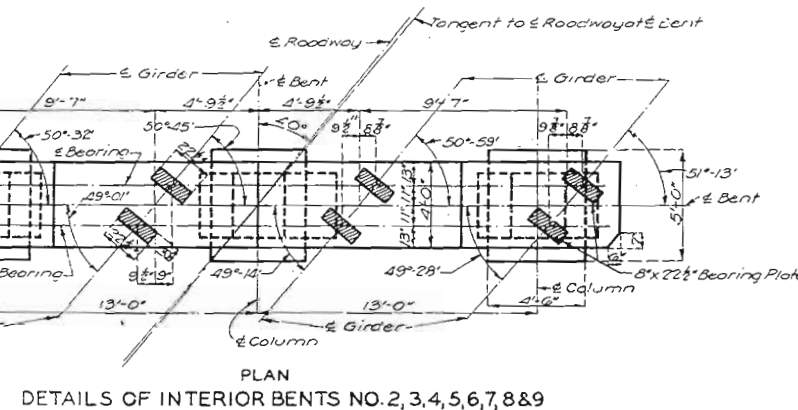
COMPLETE BILL OF REINFORCING STEEL

No.	Size	Length	Mark	Location	No.	Size	Length	Mark	Location	No.	Size	Length	Mark	Location
SUPER STRUCTURE					SUPER STR. (Cont'd)					END BENTS NO. 1 & 10 (Cont'd)				
4	2"	12'-6"	R1	Rail	28	3"	9'-6"	W5	Web	11	3"	31'-0"	U4	Column
41G	2"	9'	R2	Rail	8	3"	15'-0"	W6	Web	6	3"	30'-6"	U5	Column
252	2"	7'-3"	R3	Sub Post	9	3"	2'-6"	W9	Web	13	3"	32'-0"	U6	Column
184	2"	3'-9"	R4	Post	9	3"	3'-0"	W10	Web	7	3"	31'-6"	U7	Column
300	2"	18'	R5	Bolsters	1152	2"	7'-6"	B1	Girder	6	3"	8'-6"	V8	Column
4	2"	11'-3"	R6	Rail	90	1 1/2"	49'-3"	B2	Girder	6	3"	10'-6"	V9	Column
6	3"	10'-3"	R7	Rail	106	1 1/2"	50'-0"	B3	Girder	6	3"	11'-0"	V10	Column
8	3"	8'-9"	R8	Rail	72	1 1/2"	45'-6"	B4	Girder	6	3"	12'-6"	V11	Column
4	2"	11'-6"	R9	Rail	108	1 1/2"	40'-0"	B5	Girder	60	3"	6'-3"	D1	Footings
4	2"	9'-9"	R10	Rail	90	1 1/2"	49'-9"	B6	Girder	INTERIOR BENTS NO. 2, 3, 4, 5, 6, 7, 8, 9				
56	3"	12'-0"	R11	Rail	END BENTS NO. 1 & 10					40	3"	8'-9"	G1	Beam
56	3"	10'-9"	R12	Rail	16	3"	13'-0"	H1	Wing	32	3"	21'-6"	G2	Beam
56	3"	11'-0"	R13	Rail	2	3"	33'-9"	H2	Wing	48	3"	10'-9"	G4	Beam
4	3"	9'-6"	R15	Rail	20	1"	25'-9"	H3	Beam	48	3"	12'-6"	G5	Beam
4	3"	11'-6"	R16	Rail	8	3"	23'-9"	H4	Beam	48	3"	13'-6"	G6	Beam
8	3"	10'-6"	R17	Rail	16	3"	23'-9"	H5	Beam	36	3"	9'-3"	F1	Haunch
4	3"	10'-9"	R18	Rail	10	3"	28'-3"	H6	Beam	32	3"	10'-6"	F2	Haunch
4	3"	12'-9"	R19	Rail	12	1"	12'-0"	H7	Beam	64	3"	8'-6"	F2	Haunch
12	3"	6'-9"	R21	End Post	3	3"	33'-0"	H8	Wing	16	3"	17'-6"	P1	Column
12	3"	6'-0"	R22	End Post	10	3"	16'-6"	V2	Col. Bt. #1	347	3"	10'-9"	P2	Column
6	3"	26'-3"	C1	Curb	10	3"	17'-6"	V3	Col. Bt. #1	40	3"	18'-0"	P4	Column
504	3"	3'-9"	C2	Curb	10	3"	18'-0"	V4	Col. Bt. #1	32	3"	19'-0"	P5	Column
28	3"	4'-0"	C3	Curb	10	3"	18'-6"	V5	Col. Bt. #10	48	3"	19'-6"	P6	Column
8	3"	23'-3"	C4	Curb	10	3"	19'-6"	V6	Col. Bt. #10	8	3"	20'-0"	P7	Column
84	3"	25'-3"	C5	Curb	10	3"	20'-0"	V7	Col. Bt. #10	16	3"	20'-0"	P8	Column
6	3"	22'-6"	C6	Curb	16	3"	9'-3"	F1	Haunch	8	3"	21'-0"	P9	Column
6	3"	26'-3"	C7	Curb	4	3"	10'-6"	F2	Haunch	128	3"	15'-5"	U8	Beam
496	3"	27'-6"	S1	Slab	2	3"	11'-0"	F3	Haunch	136	3"	14'-9"	U9	Beam
846	3"	25'-0"	S2	Slab	6	3"	16'-6"	T1	Wing	128	3"	6'-9"	U10	Beam
241	3"	29'-9"	S3	Slab	4	3"	17'-6"	T2	Wing	192	3"	6'-9"	D2	Footings
39	3"	34'-9"	S4	Slab	4	3"	16'-6"	T3	Wing	BENDING SKETCHES AND CUTTING DIAGRAMS (Continued)				
288	3"	32'-6"	S5	Slab	4	3"	15'-9"	T4	Wing	BENDING SKETCHES AND CUTTING DIAGRAMS (Continued)				
304	3"	32'-0"	S6	Slab	4	3"	15'-0"	T5	Beam	BENDING SKETCHES AND CUTTING DIAGRAMS (Continued)				
40	3"	34'-3"	S7	Slab	6	3"	10'-0"	T6	Beam	BENDING SKETCHES AND CUTTING DIAGRAMS (Continued)				
52	3"	7'-6"	S12	Slab	6	3"	12'-6"	T7	Beam	BENDING SKETCHES AND CUTTING DIAGRAMS (Continued)				
96	3"	6'-6"	S13	Slab	3	3"	13'-0"	T8	Beam	BENDING SKETCHES AND CUTTING DIAGRAMS (Continued)				
96	3"	13'-6"	W1	Web	3	3"	14'-9"	T9	Beam	BENDING SKETCHES AND CUTTING DIAGRAMS (Continued)				
36	3"	18'-0"	W2	Web	32	3"	12'-9"	U1	Beam	BENDING SKETCHES AND CUTTING DIAGRAMS (Continued)				
4	3"	11'-6"	W3	Web	22	3"	13'-9"	U2	Beam	BENDING SKETCHES AND CUTTING DIAGRAMS (Continued)				
4	3"	20'-3"	W4	Web	24	3"	2'-9"	U3	Beam	BENDING SKETCHES AND CUTTING DIAGRAMS (Continued)				
9	3"	5'-0"	W7	Web	BENDING SKETCHES AND CUTTING DIAGRAMS (Continued)				BENDING SKETCHES AND CUTTING DIAGRAMS (Continued)					
9	3"	5'-9"	W8	Web	BENDING SKETCHES AND CUTTING DIAGRAMS (Continued)				BENDING SKETCHES AND CUTTING DIAGRAMS (Continued)					

BENDING SKETCHES AND CUTTING DIAGRAMS.

1-4: R3, S5-S7, S9 & S11, 3'-4'-8", 28'-6"-7", 6'-10'-6", 3'-9"-3", 32'-9", S4-S6-S8 & S10, 39'-34'-55 CUT 39 & BEND EACH AS SHOWN, 25'-9"-6'-2", 25'-9"-6'-2", 4'-7"-27'-10", 2'-27'-27'-9", 32'-6", 32'-6", 36'-56-S7 CUT 288 35'-58-S9 CUT 304 & BEND EACH AS SHOWN, 19'-6", 27'-

DATA FOR INTERIOR BENTS				
Bent No.	Dimension "a"	Dimension "b"	No. of Bars	Elevation "c"
2	14'-9 1/2"	24'-2 1/2"	15	G/9.0
3	14'-9 1/2"	24'-2 1/2"	15	G/9.0
4	15'-3 1/2"	24'-8 1/2"	14	G/8.5
5	15'-3 1/2"	24'-8 1/2"	14	G/8.5
6	15'-3 1/2"	24'-8 1/2"	14	G/8.5
7	16'-3 1/2"	25'-8 1/2"	15	G/7.5
8	16'-3 1/2"	25'-8 1/2"	15	G/7.5
9	16'-3 1/2"	26'-2 1/2"	15	G/7.0



DETAILS OF INTERIOR BENTS NO. 2, 3, 4, 5, 6, 7, 8 & 9

SEE NOTE "A" ON SHEET NO. 1.

BRIDGE OVER LITTLE N. FORK OF WHITE RIVER

STATE ROAD FROM THEODOSIA TO GAINSVILLE
ABOUT 57 MILES WEST OF WEST PLAINS
PROJECT NO. FAS 425-C(1)(S.C) STA. 382+12.0

OZARK COUNTY

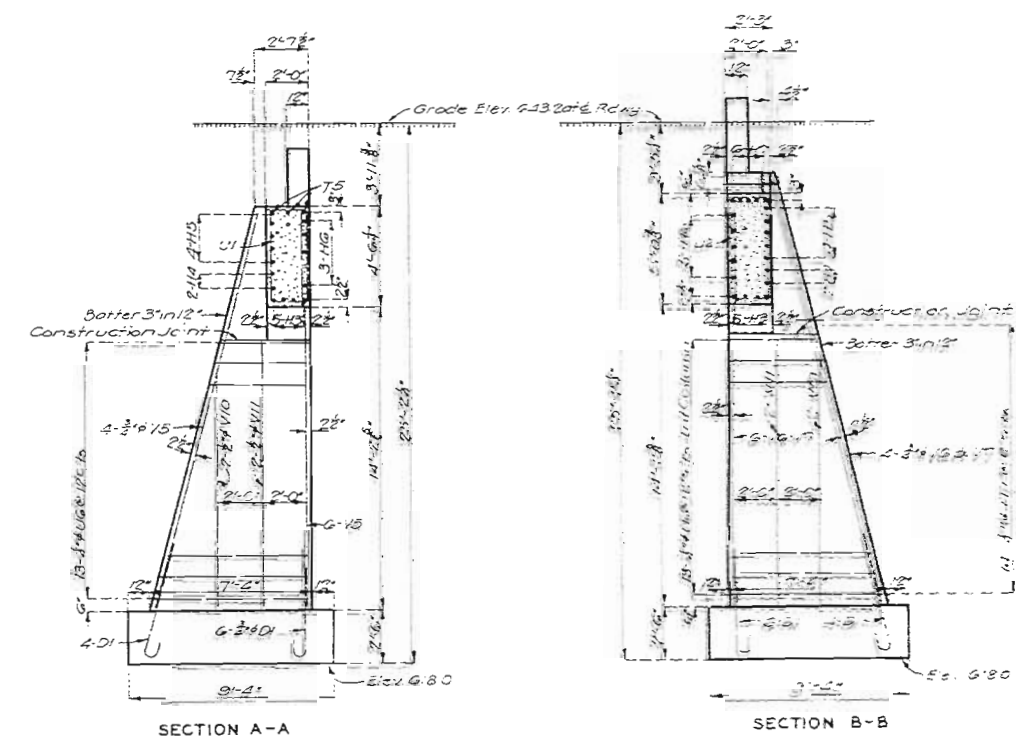
K-817

Drawn June 1941 by J.G.
Checked June 1941 by C.S.
Checked Aug. 1941 by RAB

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

Sheet 1 of 3 of 3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	MO	27-22	19		



ELEVATION



SEE NOTE "A" ON SHEET NO. 1.

STATE ROAD FROM THEODOSIA TO GAINSVILLE
ABOUT 57 MILES WEST OF WEST PLAINS
PROJECT NO. FAS 425-C(1) (S.C.) STA. 382+120

COUNTY

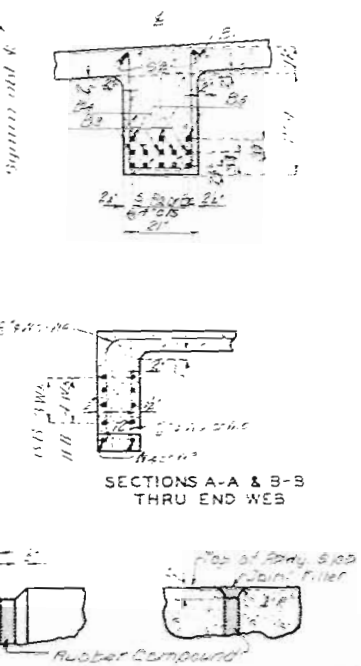
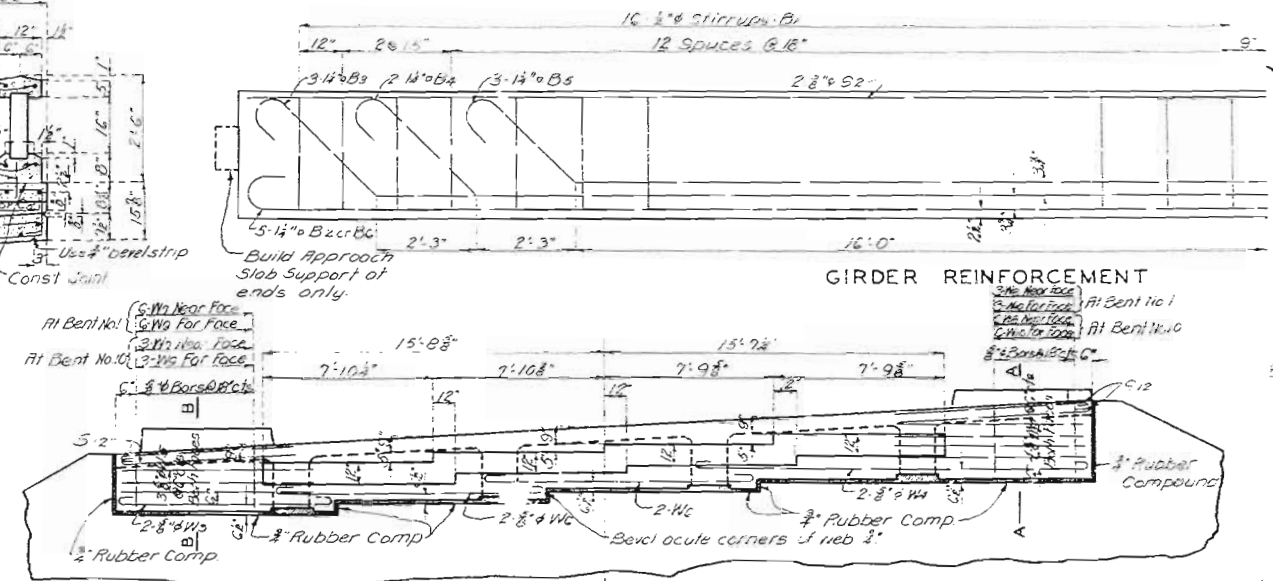
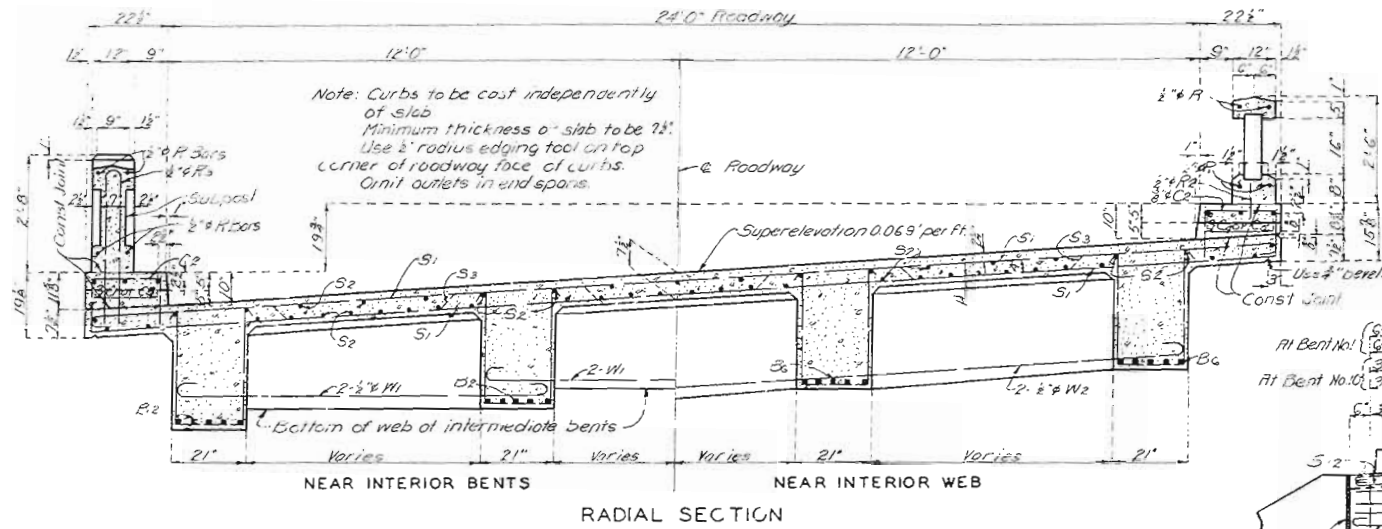
Drawn June 1941 by J.G.
Traced June 1941 by C.S.
Checked Aug. 1941 by RAB

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

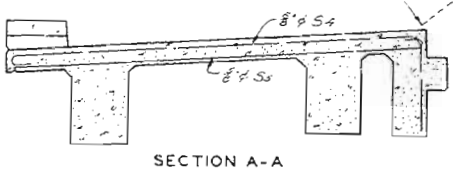
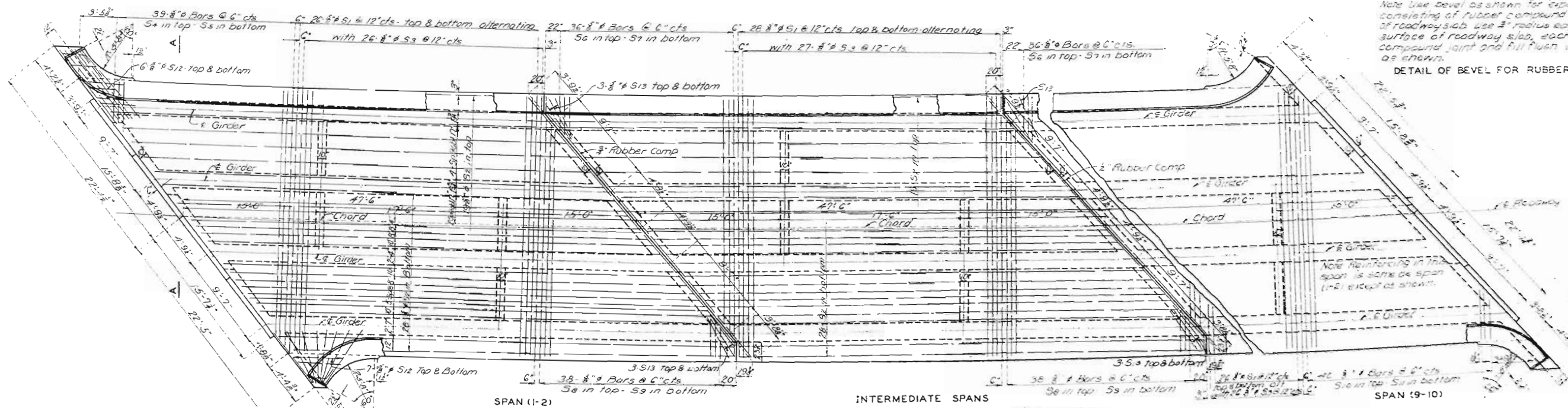
Sheet No. 2 of 6.

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	273	1952	16	

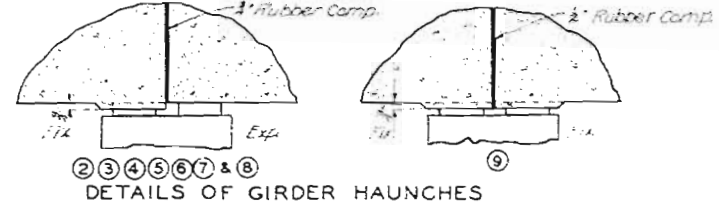


ELEVATION AT END BENT NO. 1
Elevation at End Bent No. 10 is similar.
Note: Space between the top of end bents and bottom of end webs and girders shall be filled with rubber compound except space in front of wearing plates which may be left open to depth of plates.



SEE NOTE "A" ON SHEET NO. 1

DETAILS OF SUPERSTRUCTURE



BRIDGE OVER L.N. FORK WHITE RIVER
STATE ROAD FROM THEODOSIA TO GAINVILLE
ABOUT 57 MILES WEST OF WEST PLAINS
PROJECT NO. FAS 425-C(1)(S.C.) STA 382+12.0
OZARK COUNTY

K-817

Drawn May 1941 by J.G.
Traced May 1941 by H.M.S.
Checked Aug 1941 by RAB

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

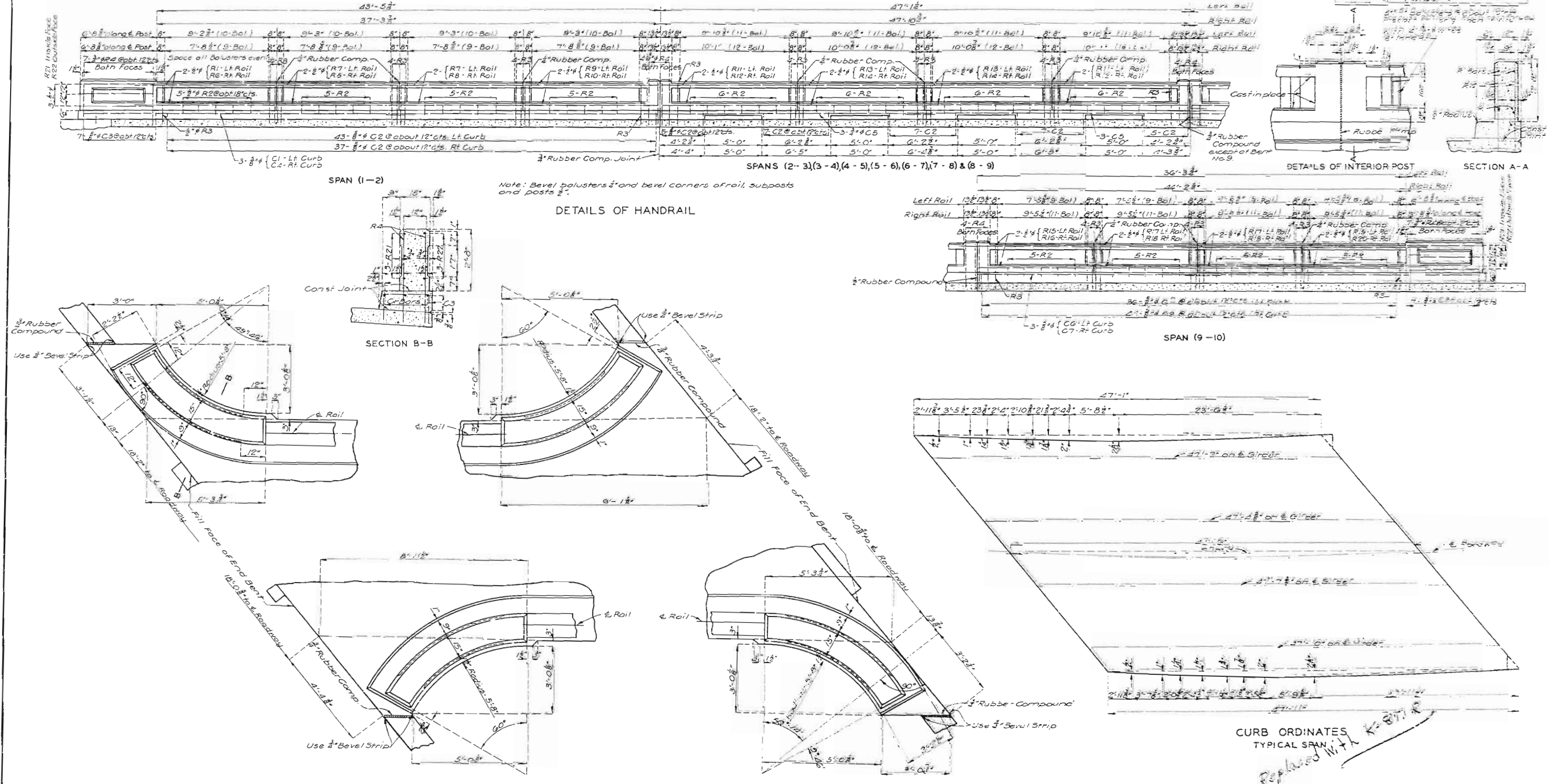
1/2" = 1'-0"

Replaced with K-817

184

MISSOURI STATE HIGHWAY DEPARTMENT

PROJ. NO.	STATE	PROJ. NO.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
425-CL	MO	232	232	14	



DETAILS OF FLARED END POSTS

SEE NOTE "A" ON SHEET NO. 1.

BRIDGE OVER LITTLE N. FORK OF WHITE RIVER

STATE ROAD FROM THEODOSSIA TO GAINSVILLE
ABOUT 57 MILES WEST OF WEST PLAINS
PROJECT NO. FAS 425-CL (S.C.) STA 382+12.0

OZARK COUNTY

K-817

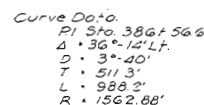
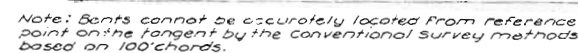
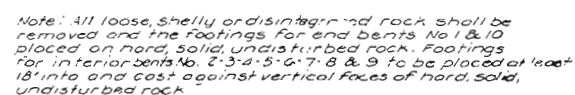
Note: This drawing is not to scale. Follow dimensions.

See No. 1 of G.

Drawn June 1941 by J.G.
Traced June 1941 by C.S.
Checked Aug. 1941 by RAB

185

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SPRINT NO.	1ST SHEET
6	MA	100-100-100	19		



Drainage Area - 239 Sq. Mi.
Hilly

Note: Excavation for bridge made above elev. 671.0 will be paid for as
Excavation for Structures.
Excavation for bridge made below Elev. 671.0 will be paid for as
Class 2 Excavation for Structures.

Design Specifications for 170
Logging 715 1457.0
Reference Price \$754.19
Cost of Concrete 1900.00
All concrete work on Class 3

Replaced with K-81712

12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045

(Name) *N. R. Lopez* sex *male* DOB *10/29/44*
 (Last Name) *C. W. Brown* sex *male* DOB *8/27/41*

FINAL PLANS K-817

Drown June 1941 by JG
Towed June 1941 by CS
checked Aug 1941 by PAA

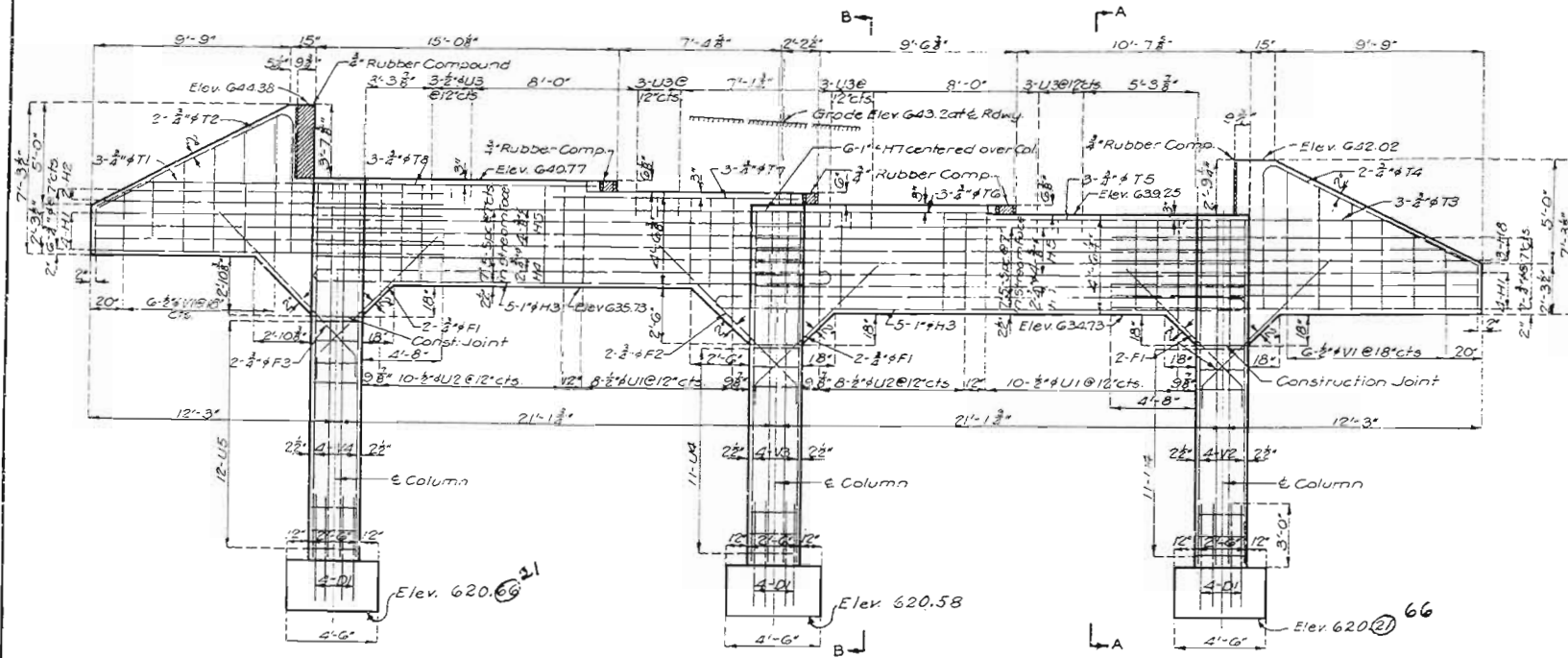
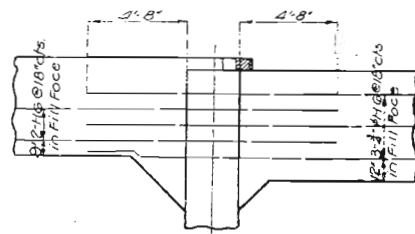
Note: This drawing is not to scale. Follow dimensions

Sheep Vol. 1 of 4

001

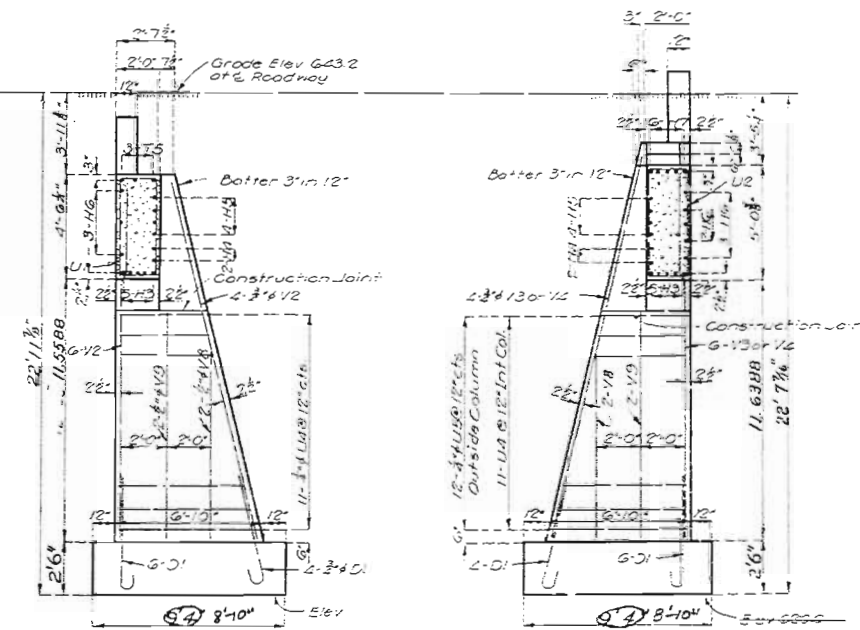
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	425-C(1)(S.C)	1941	19	20



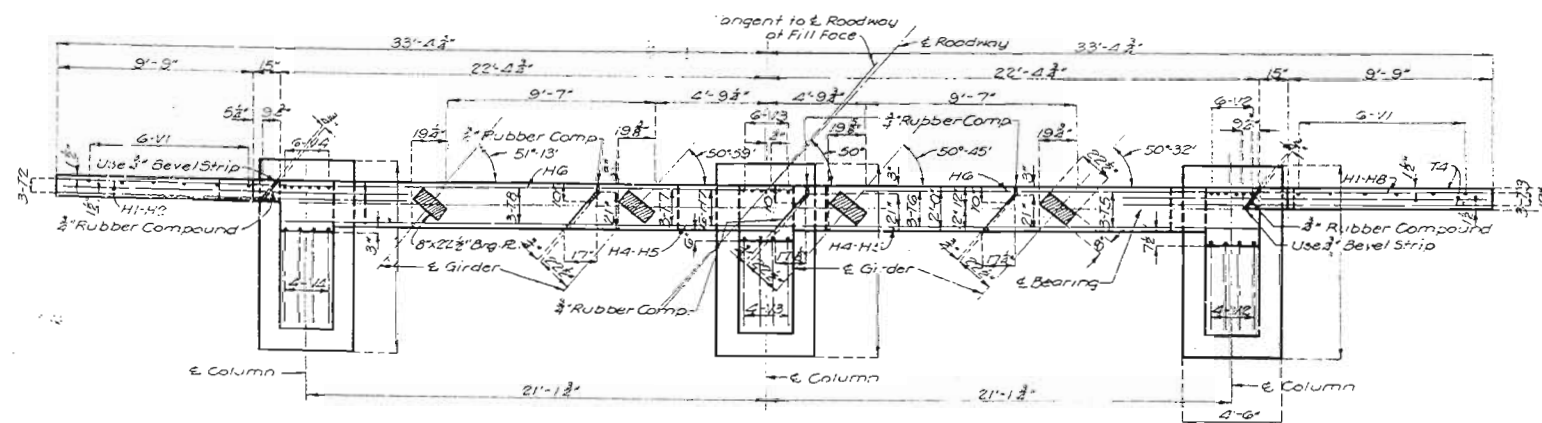
ELEVATION

Note: Fill at End Bent No. 1 shall not be carried above bottom of beam and wings until superstructure span (1-2) is in place.

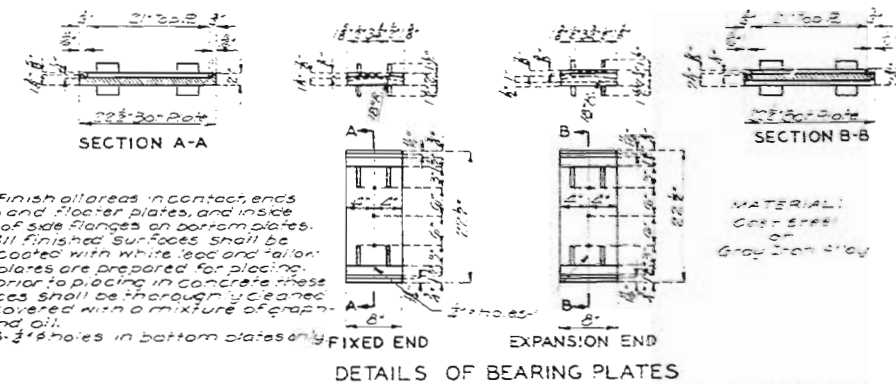


SECTION A-A

SECTION B-B



PLAN



DETAILS OF BEARING PLATES

Note: Finish all areas in contact, ends of top and floor plates, and inside faces of side flanges on bottom plates. All finished surfaces shall be kept coated with white lead and talcum until plates are prepared for placing. Just prior to placing in concrete these surfaces shall be thoroughly cleaned and covered with a mixture of graphite and oil.

Note: 36 sets of 3 plates each required, each set consisting of top plate, and bottom plate for fixed end and top plate, floor plate, and bottom plate for expansion end.

DETAILS OF END BENT NO. 1

BRIDGE OVER LITTLE N. FORK OF WHITE RIVER

STATE ROAD FROM THEODOSIA TO GAINESVILLE
ABOUT 57 MILES WEST OF WEST PLAINS
PROJECT NO. FAS 425-C(1)(S.C) STA. 382+120

OZARK

COUNTY

FINAL PLANS

K-817

Drawn June 1941 by J.C.
Traced June 1941 by C.S.
Checked Aug. 1941 by R.W.D.

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

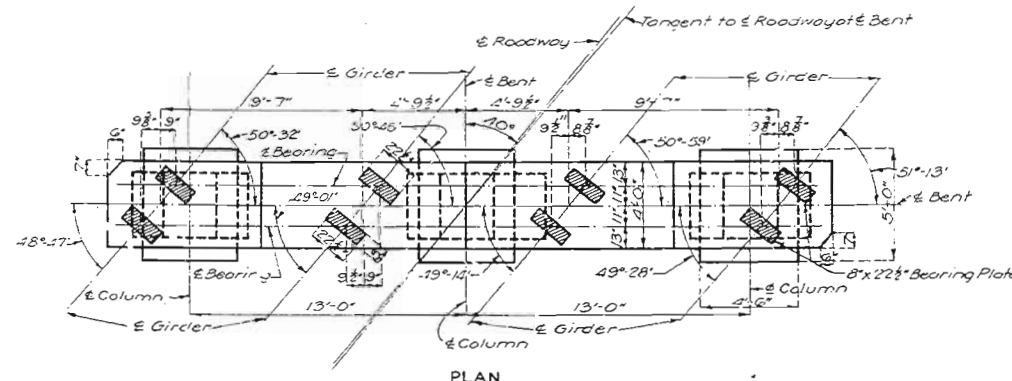
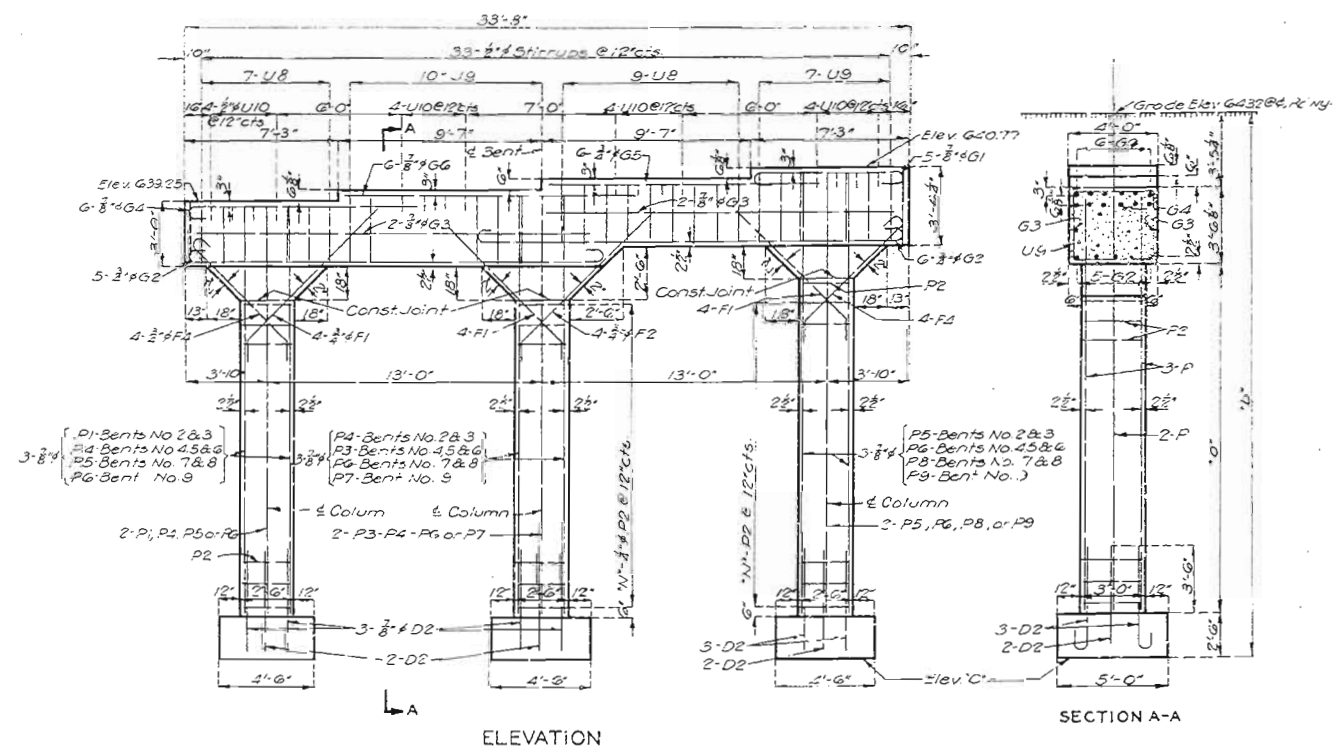
Sheet No. 2 of 4

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Replaced with K-817R

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	DATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
10	Mo.	677	1941	10	10



DETAILS OF INTERIOR BENTS NO. 2, 3, 4, 5, 6, 7, 8 & 9

COMPLETE BILL OF REINFORCING STEEL											
No.	Size	Length	Work Location	No.	Size	Length	Work Location	No.	Size	Length	Work Location
SUPERSTRUCTURE				SUPERSTR. (Cont'd)				END BENTS NO. 1 & 10 (Cont'd)			
4	3/4"	12'-6"	R1 Rail	28	3/4"	9'-6"	W5 Web	11	3/4"	31'-0"	U4 Column
416	3/4"	9'	R2 Rail	8	3/4"	15'-0"	W6 Web	6	3/4"	30'-6"	U5 Column
252	3/4"	7'-9"	R3 Rail	9	3/4"	2'-6"	W9 Web	13	3/4"	32'-0"	U6 Column
184	3/4"	3'-9"	R4 Rail	9	3/4"	3'-0"	W10 Web	7	3/4"	31'-6"	U7 Column
3200	3/4"	18'	R5 Bolsters	1152	3/4"	7'-6"	B1 Girder	6	3/4"	8'-6"	V8 Column
4	3/4"	11'-3"	R6 Rail	90	1/2"	29'-3"	B2 Girder	6	3/4"	10'-6"	V9 Column
8	3/4"	10'-3"	R7 Rail	108	1/2"	50'-0"	B3 Girder	6	3/4"	11'-6"	V10 Column
8	3/4"	8'-5"	R8 Rail	72	1/2"	45'-6"	B4 Girder	6	3/4"	12'-6"	V11 Column
4	3/4"	11'-6"	R9 Rail	108	1/2"	40'-0"	B5 Girder	60	3/4"	6'-3"	D1 Footing
4	3/4"	9'-9"	R10 Rail	90	1/2"	49'-9"	B6 Girder	INTERIOR BENTS NO. 2, 3, 4, 5, 6, 7, 8 & 9			
56	3/4"	15'-0"	R11 Rail					40	3/4"	8'-9"	G1 Beam
16	3/4"	12'-3"	R12 Rail					88	3/4"	2'-6"	G2 Beam
56	3/4"	10'-9"	R13 Rail					32	3/4"	18'-7"	G3 Beam
56	3/4"	11'-0"	R14 Rail	16	3/4"	18'-0"	H1 Wing	48	3/4"	10'-9"	G4 Beam
4	3/4"	9'-6"	R15 Rail	2	3/4"	33'-9"	H2 Wing	48	3/4"	12'-3"	G5 Beam
4	3/4"	11'-6"	R16 Rail	20	1"	26'-9"	H3 Beam	48	3/4"	13'-6"	G6 Beam
8	3/4"	8'-6"	R17 Rail	8	3/4"	23'-9"	H4 Beam	48	3/4"	9'-3"	F1 Haunch
8	3/4"	10'-6"	R18 Rail	16	3/4"	23'-6"	H5 Beam	32	3/4"	15'-6"	F2 Haunch
4	3/4"	10'-9"	R19 Rail	10	3/4"	28'-3"	H6 Beam	64	3/4"	8'-6"	F3 Haunch
4	3/4"	12'-3"	R20 Rail	12	1"	12'-0"	H7 Beam	16	3/4"	17'-6"	P1 Column
12	3/4"	6'-9"	R21 End Post	3	3/4"	33'-0"	H8 Wing	24	3/4"	18'-6"	P2 Column
12	3/4"	6'-0"	R22 End Post	10	3/4"	15'-6"	V2 Col. B-1	32	3/4"	18'-0"	P3 Column
				10	3/4"	17'-0"	V3 Col. B-2	48	3/4"	19'-6"	P4 Column
				10	3/4"	18'-0"	V4 Col. B-3	48	3/4"	20'-0"	P5 Column
				10	3/4"	18'-6"	V5 Col. B-4	16	3/4"	20'-6"	P6 Column
				10	3/4"	19'-6"	V6 Col. B-5	6	3/4"	21'-0"	P7 Column
				16	3/4"	9'-3"	F1 Haunch	128	3/4"	13'-9"	U8 Beam
				4	3/4"	11'-0"	F3 Haunch	128	3/4"	14'-9"	U9 Beam
				4	3/4"	11'-0"	F3 Haunch	128	3/4"	4'-9"	U10 Beam
456	3/4"	27'-6"	S1 Slob	6	3/4"	16'-6"	T1 Wing	192	3/4"	0'-9"	D2 Footing
846	3/4"	25'-0"	S2 Slob	4	3/4"	17'-6"	T2 Wing				
201	3/4"	29'-9"	S3 Slob	4	3/4"	17'-6"	T3 Wing				
39	3/4"	32'-9"	S4 Slob	6	3/4"	16'-6"	T4 Wing				
288	3/4"	32'-6"	S5 Slob	4	3/4"	15'-9"	T5 Wing				
304	3/4"	32'-0"	S6 Slob	6	3/4"	15'-0"	T6 Beam				
20	3/4"	30'-3"	S7 Slob	6	3/4"	10'-0"	T6 Beam				
52	3/4"	7'-6"	S12 Slob	6	3/4"	12'-6"	T7 Beam				
96	3/4"	6'-6"	S13 Slob	3	3/4"	13'-0"	T8 Beam				
96	3/4"	13'-6"	W1 Web	3	3/4"	14'-9"	T9 Beam				
36	3/4"	18'-0"	W2 Web	32	3/4"	12'-9"	U1 Beam				
4	3/4"	11'-6"	W3 Web	42	3/4"	13'-9"	U2 Beam				
4	3/4"	20'-3"	W4 Web	20	3/4"	2'-9"	U3 Beam				
9	3/4"	5'-0"	W7 Web								
9	3/4"	5'-9"	W8 Web								

DATA FOR INTERIOR BENTS				
Bent No.	Dimension "a"	Dimension "b"	No. P2 Bars	Elevation "C"
2	13'-0"	13'-0"	15	13'-0"
3	13'-0"	13'-0"	15	13'-0"
4	13'-0"	13'-0"	15	13'-0"
5	13'-0"	13'-0"	15	13'-0"
6	13'-0"	13'-0"	15	13'-0"
7	13'-0"	13'-0"	15	13'-0"
8	13'-0"	13'-0"	15	13'-0"
9	13'-0"	13'-0"	15	13'-0"

BRIDGE OVER LITTLE N. FORK OF WHITE RIVER
 STATE ROAD FROM THEODOSIA TO GAINSVILLE
 ABOUT 57 MILES WEST OF WEST PLAINS
 PROJECT NO. FAS 425-C(11)(S.C.) STA. 362+12.0
 OZARK COUNTY
 FINAL PLANS K-817

Drawn June 1941 by J.G.
 Traced June 1941 by C.S.
 Checked Aug. 1941 by R.A.G.

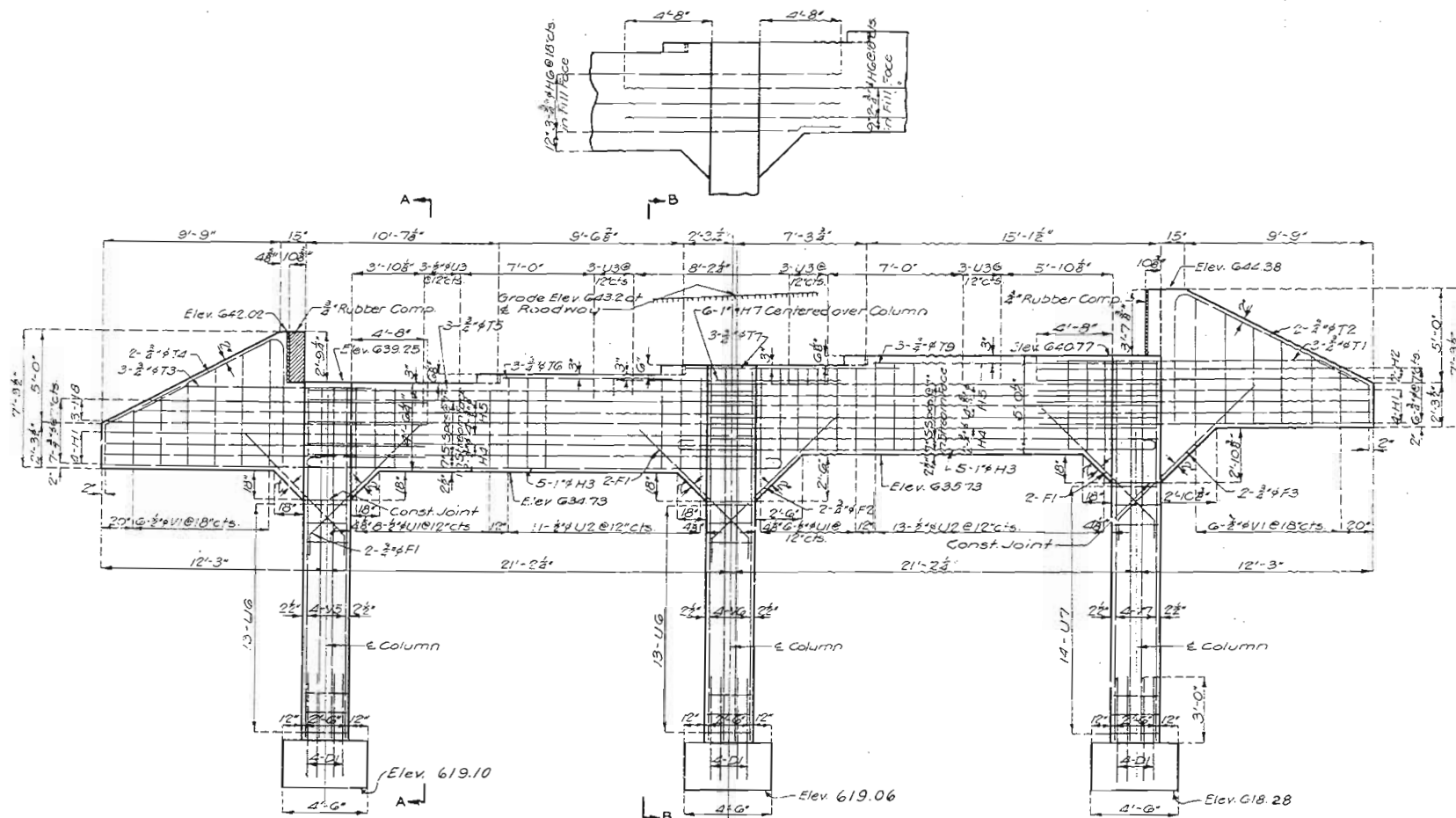
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 10 of 10

MISSOURI STATE HIGHWAY DEPARTMENT

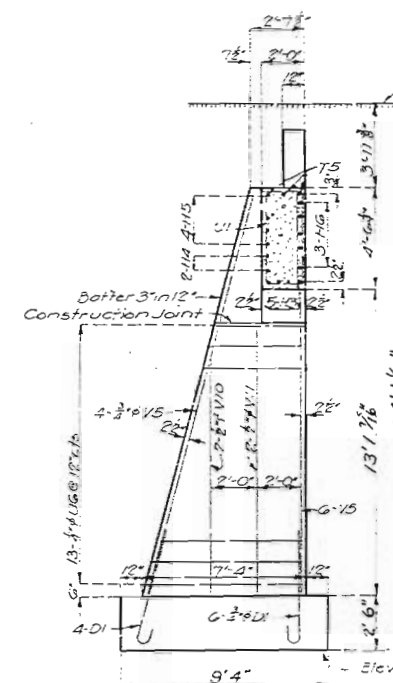
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	425-C(1)	1931	16	16

FINAL PLANS

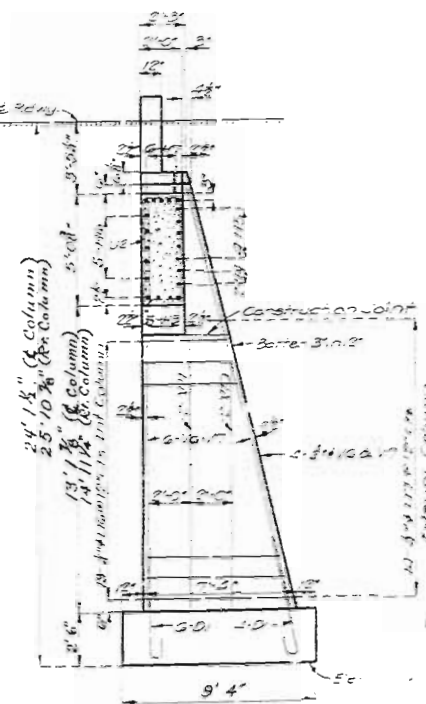


ELEVATION

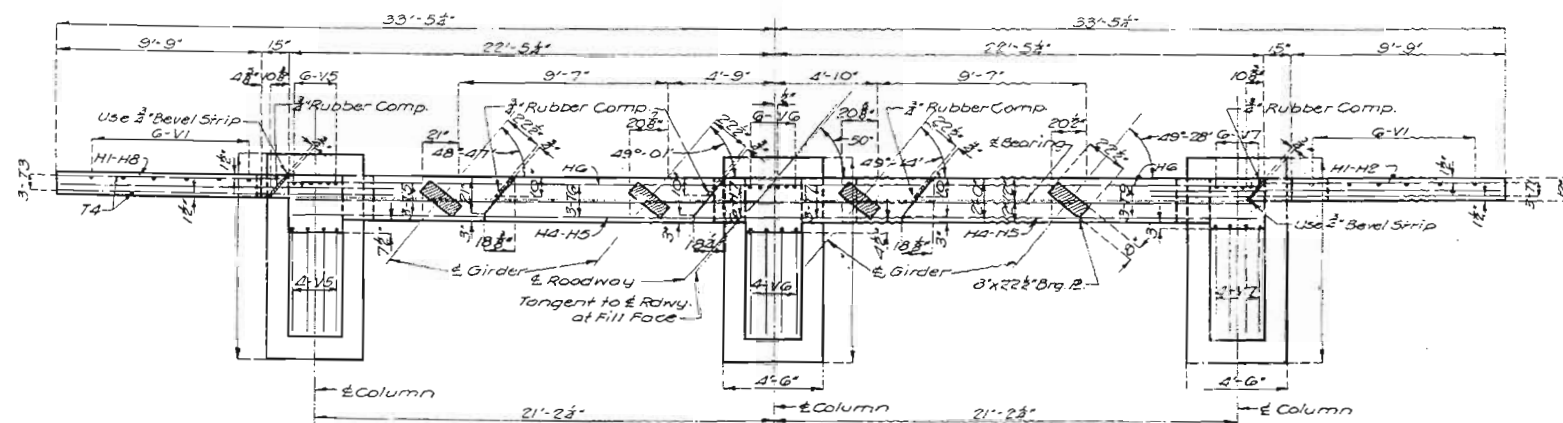
Note: Fill at End Bent No. 10 shall not be carried above bottom of beam and wings until superstructure span (9-10) is in place.



SECTION A-A



SECTION B-B



PLAN

DETAILS OF ABUTMENT NO. 10

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

Replaced with K-817R
BRIDGE OVER LITTLE N. FORK OF WHITE RIVER

STATE ROAD FROM THEODOSIA TO GAINSVILLE
ABOUT 57 MILES WEST OF WEST PLAINS
PROJECT NO. FAS 425-C(1) (S.C.) STA. 382+120

OZARK

COUNTY

FINAL PLANS

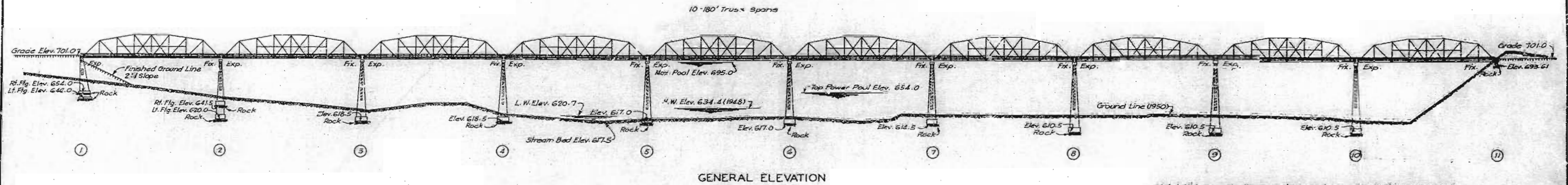
K-817

Drawn June 1931 by J.G.
Traced June 1931 by C.S.
Checked Aug. 1931 by RAB.

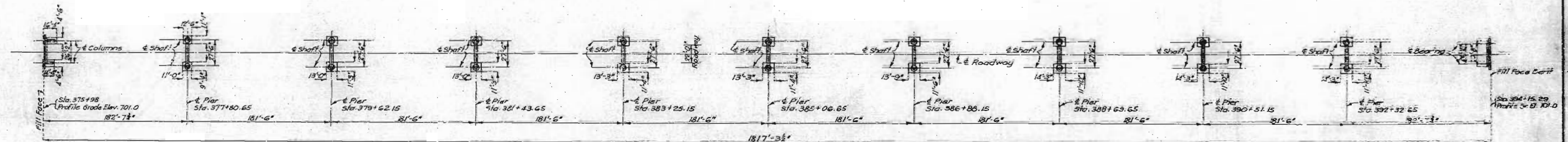
Sheet No. 16 of 16

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	71-2201	53		



Note: All loose, shelly or disintegrated rock shall be removed and footings placed on hard, solid, undisturbed rock. If soft rock or shale is encountered, the footings shall be carried at least 18" into and cast against vertical faces of same. In no case shall footings of Piers No. 2, 5 and 6 and Bent No. 11 be placed higher than elevations shown.

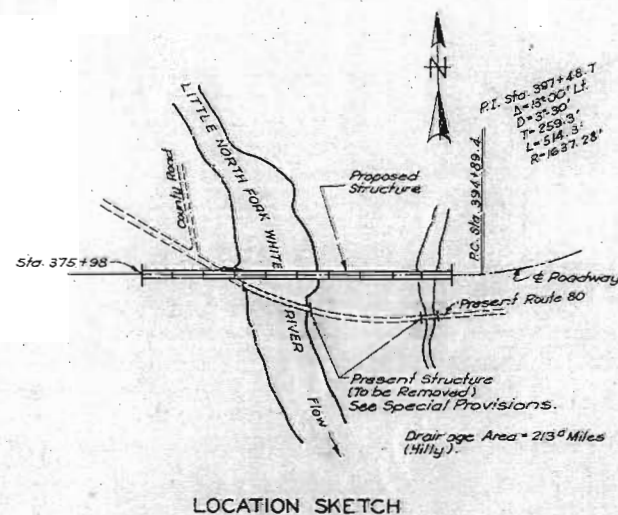


ESTIMATED QUANTITIES			
Item	Substr.	Superstr.	Total
Class 1 Excavation for Structures	Cu Yds	1040	1040
Class 2 Excavation for Structures	Cu Yds	1212	1212
Class 3 Concrete	Cu Yds	3,029.6	4,108.2
Fabricated Structural Steel	Lbs	2,228,340	2,228,340
Steel Castings	Lbs	15,950	15,950
Reinforcing Steel	Lbs	109,270	257,550
		109,270	367,270

Excavation for bridge made above Elev. 625.0 will be paid for as Class 1 Excavation for Structures.
Excavation for bridge made below Elev. 625.0 will be paid for as Class 2 Excavation for Structures.

GENERAL NOTES:

Design Specifications A.A.S.H.O. 1949.
Loading H15-44.
Structural Steel Stress 18,000 psi.
Reinforcing Steel Stress 18,000 psi.
Class 3 Concrete Stress 1,000 psi.
All Concrete shall be Class 3 (Air Entrained).
Rivets 3/4" diameter where otherwise noted.
Paint: Six coats: Field, contact surfaces of bolted field connections one coat of red lead and surfaces inaccessible after erection three coats of red lead. All other exposed surfaces one coat red lead, second coat of brown, and final coat Aluminum. Payment for cleaning and painting such surfaces shall be included in the price bid for Fabricated Structural Steel.
Where joint filler is specified it shall conform with the requirements for Prepacked Material for Filler as given in Section 38-15.14 of the Standard Specifications.



BM #4 - Elev. 640.10 "on top of North Wing - West End of Bridge 25' Rt. of Sta. 351+93 (Saw Level Datum).

BRIDGE OVER LITTLE NORTH FORK WHITE RIVER

STATE ROAD FROM THEODOSSIA TO GAINSVILLE
ABOUT 57 MILES W. OF WEST PLAINS
PROJECT NO. RT 50 (80) SEC. 3-A STA. 375+98

OZARK COUNTY

DESIGNED BY: V.W. Enlow 2/17/1951
CHECKED BY: C.W. Brown 2/17/1951

Drawn Aug. 1950 By C.R.P.
Traced Aug. 1950 By J.T.F.
Checked Aug. 1950 By R.H.L.

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

Sheet No. 1 of 10

STD. C-1083
K-817R

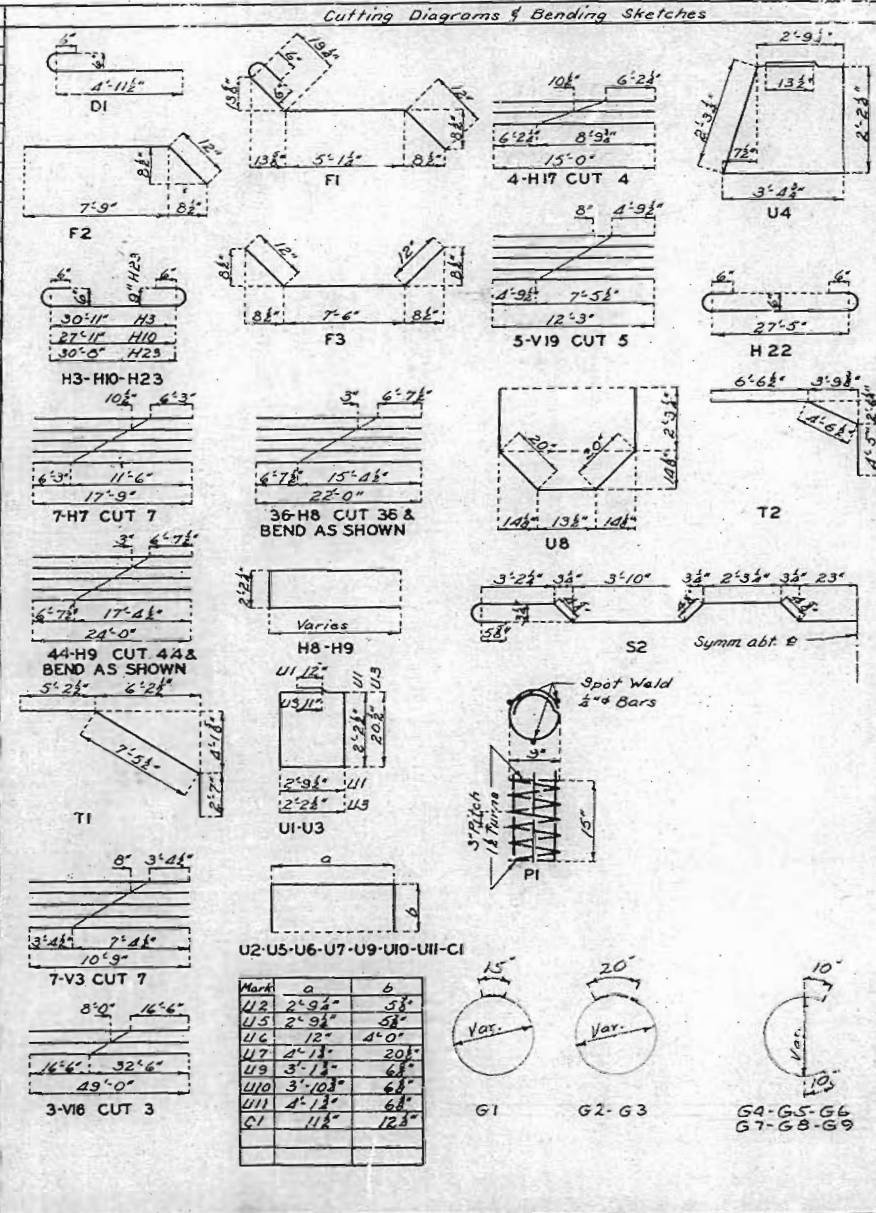
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	AP-40(100) Sec. 3-9	19		

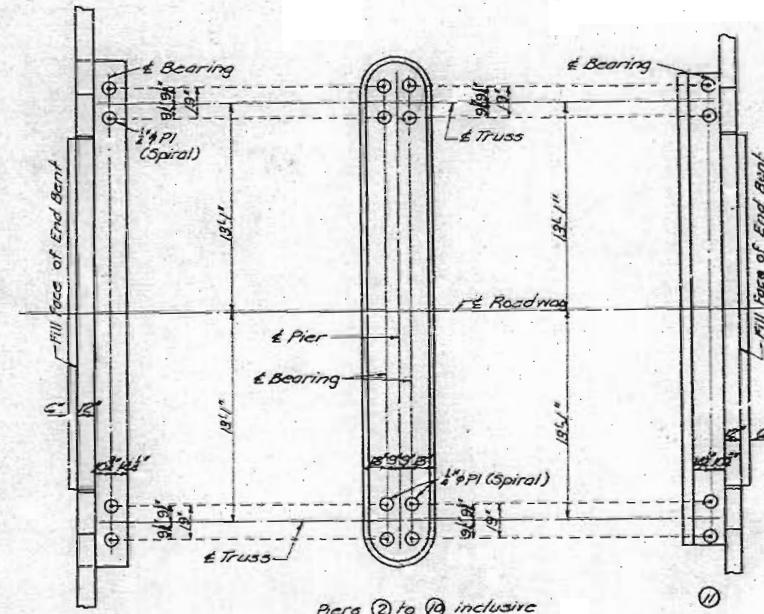
COMPLETE BILL OF REINFORCING STEEL

Cutting Diagrams & Bending Sketches

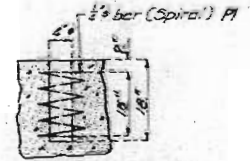
No.	Size	Length	Mark	Location
End Bent No. I				
20	1"	4'3"	D1	Footings
8	1"	9'0"	F1	Beam Haunch
8	1"	8'9"	F2	"
16	1"	9'6"	F3	Tie
2	1"	24'3"	H1	Backwall
4	1"	24'3"	H2	"
4	1"	33'6"	H3	Beam
2	1"	31'3"	H4	"
4	1"	5'6"	H5	"
10	1"	11'6"	H6	Wing
7	1"	17'9"	H7	"
36	1"	22'0"	H8	Column
44	1"	24'0"	H9	"
14	1"	30'11"	H10	Tie Beam
9	1"	34'0"	H23	Beam
4	1"	15'3"	T1	Wing
32	1"	11'0"	U1	Beam
6	1"	5'9"	U2	"
21	1"	8'9"	U3	Tie
End Bent No. II				
2	1"	24'3"	H1	Backwall
6	1"	24'3"	H2	"
8	1"	29'3"	H13	Beam
2	1"	29'3"	H14	"
4	1"	5'0"	H15	"
16	1"	9'3"	H16	Wing
4	1"	15'0"	H17	"
30	1"	11'9"	U4	Beam
6	1"	3'9"	U5	"
44	1"	7'0"	V1	Backwall
6	1"	7'9"	V2	"
5	1"	12'3"	V19	"
4	1"	15'6"	T2	Wing
4	1"	23'0"	P1	Beam



No.	Size	Length	Mark	Location
Piers No. 2, 3, 4, 5, 6, 7, 8, 9 & 10				
247	1"	7'6"	D2	Footings
108	1"	4'6"	H18	Beam
18	1"	3'1'3"	H19	"
72	1"	7'8'0"	H20	"
524	1"	28'6"	H21	Web Wall
36	1"	30'0"	H22	"
72	1"	23'0"	P1	Beam
15	1"	29'3"	P2	Col. Pier #2
24	1"	43'6"	P3	"
12	1"	8'6"	P4	"
24	1"	23'6"	P5	Web Wall Pier #2
24	1"	21'6"	P6	"
24	1"	29'6"	P7	Col. Pier #3
24	1"	33'6"	P8	"
30	1"	44'9"	P9	"
30	1"	40'3"	P10	"
24	1"	29'6"	P11	Web Wall Pier #3
24	1"	27'9"	P12	"
24	1"	33'6"	P13	"
24	1"	31'9"	P14	"
144	1"	34'0"	P15	"
144	1"	32'9"	P16	"
60	1"	40'3"	P17	Col. Pier #5 & 6
144	1"	34'6"	P18	Col. Pier #5 & 6, 7, 8, 9 & 10
30	1"	43'3"	P19	Col. Pier #7
180	1"	25'6"	P20	Col. Pier #8, 9 & 10
234	1"	9'0"	U6	Web Wall
252	1"	7'6"	U7	Beam
252	1"	9'0"	U8	"
18	1"	4'3"	U9	"
54	1"	5'3"	U11	"
18	1"	5'0"	U10	"
Superstructure				
2424	1"	3'0"	C1	Curb
114	1"	22'9"	C2	"
360	1"	22'3"	C3	"
6	1"	24'0"	C4	"
3422	1"	24'3"	S1	Slab
1810	1"	24'6"	S2	"
2646	1"	27'9"	S3	"
1120	1"	6'0"	S4	"
294	1"	28'0"	S5	"
Piers No. 2, 3, 4, 5, 6, 7, 8, 9 & 10				
117	1"	30'0"	G1	Shaft
10	1"	43'0"	G2	"
104	1"	44'6"	G3	"
22	1"	29'6"	G4	"
12	1"	28'6"	G5	"
28	1"	28'9"	G6	"
26	1"	30'0"	G7	"
90	1"	30'3"	G8	"
14	1"	28'6"	G9	"



ANCHOR BOLT PLAN
Note: 4" Anchor bolt wells shall be provided for truss anchor bolts.



Note: Wells for all anchor bolts shall be formed in substructure by placing and setting with templates & wells of depth shown. Grout for anchor bolt wells shall be Iron Oxide Cement (Embossed) or an approved equivalent.
DETAIL OF ANCHOR BOLT WELLS

BRIDGE OVER LITTLE NORTH FORK WHITE RIVER
STATE ROAD FROM THEODOSIA TO GAINSVILLE
ABOUT 37 MILES W. OF WEST PLAINS
PROJECT NO. RT. SC (80) SEC. 3A STA. 375+98
OZARK COUNTY

Drawn Aug. 1950 by R.P.P.
Traced Aug. 1950 by J.V.K.
Checked Aug. 1950 by C.J.A.

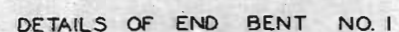
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 2 of 10.

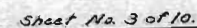
K-817 R

9

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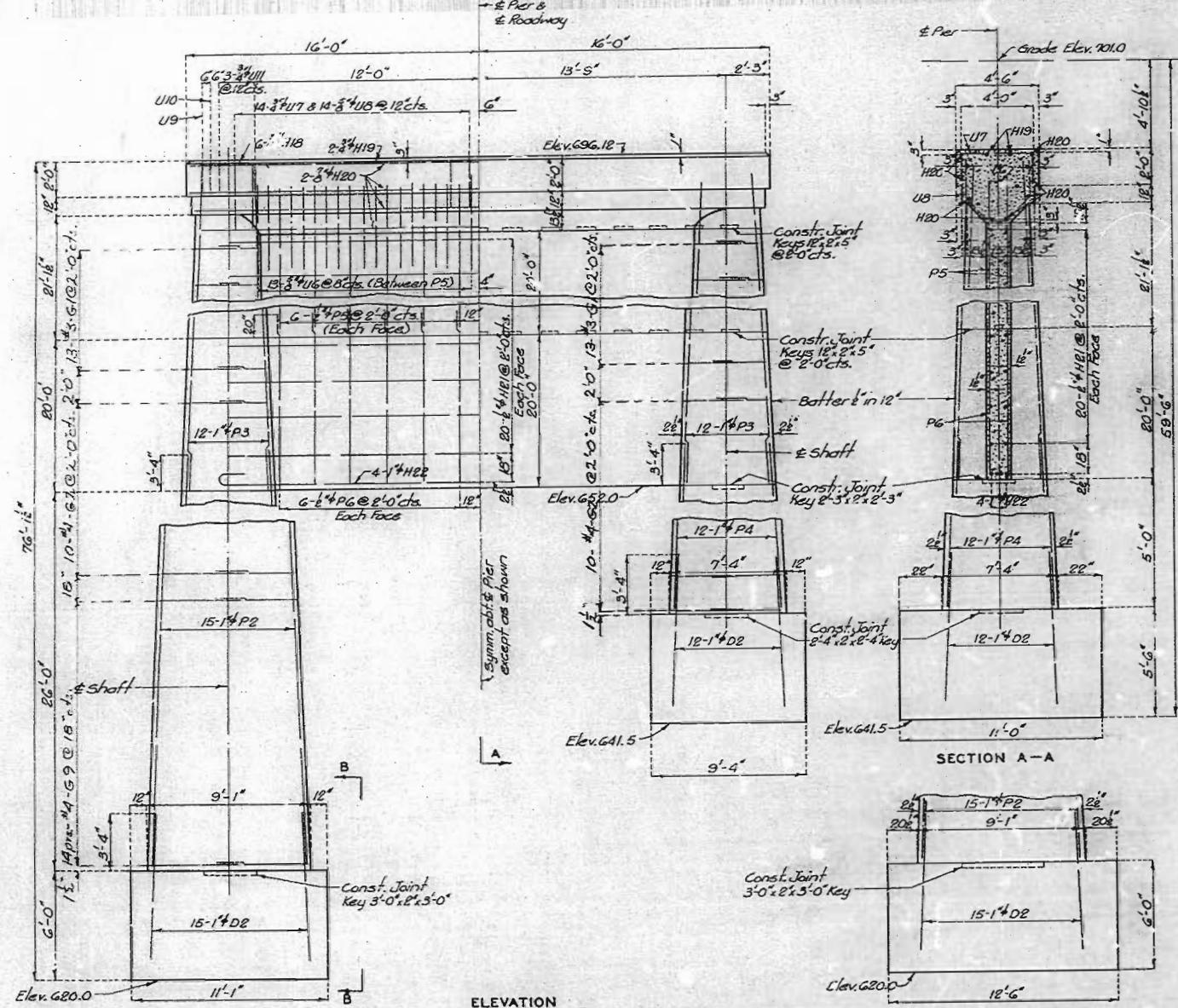
Note: This drawing is not to scale. Follow dimensions.



K-817 R

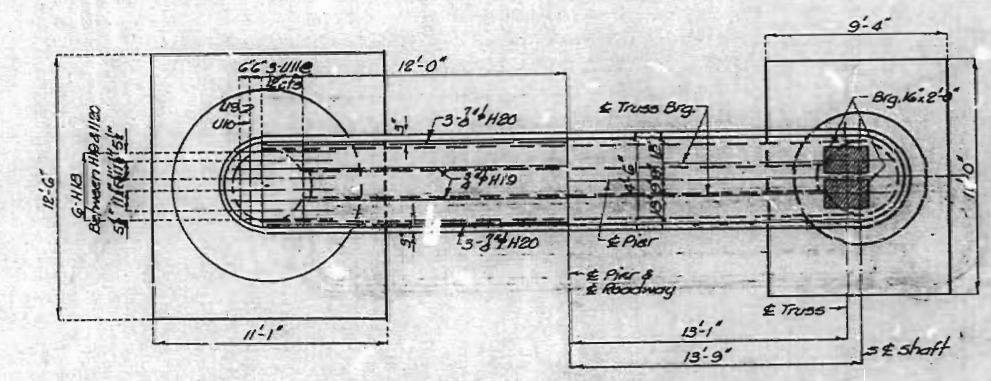
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	Rt. 3C(80) Sec. 3-A	19		



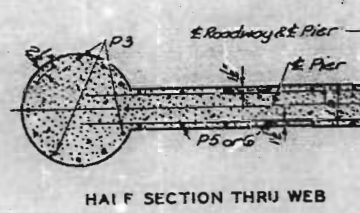
ELEVATION

SECTION B-B

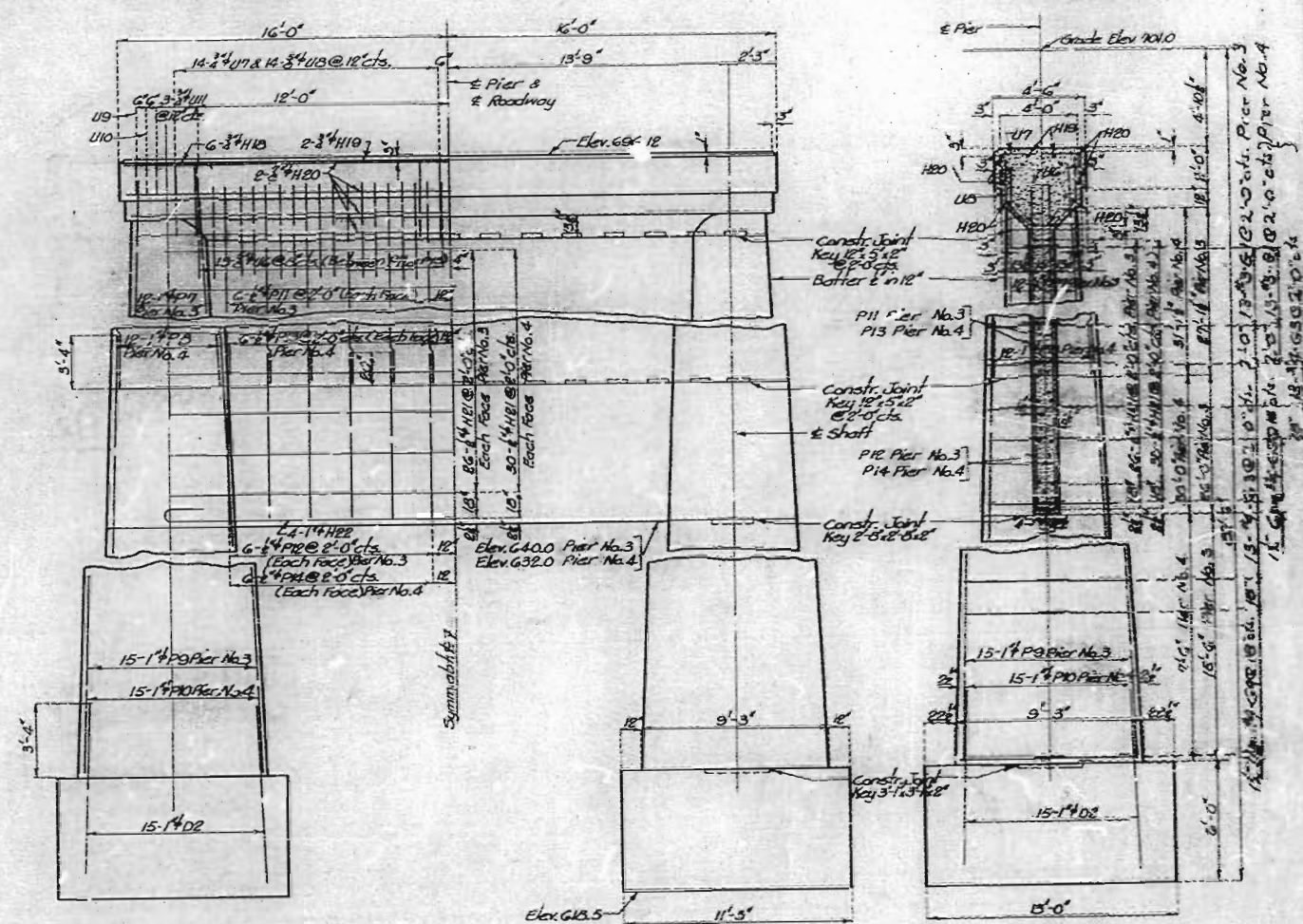


PLAN

DETAILS OF PIER NO. 2

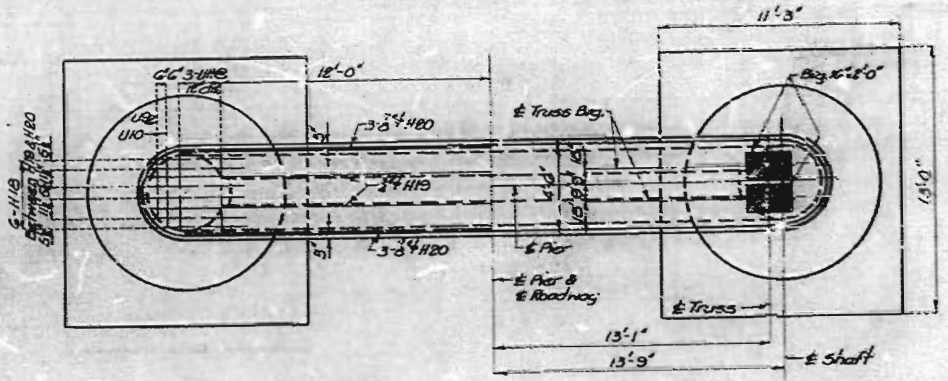


HALF SECTION THRU WEB



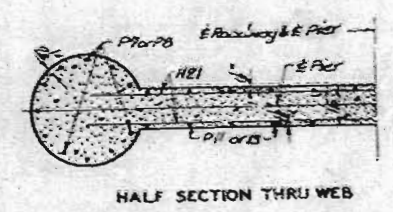
ELEVATION

SECTION AT C



PLAN

DETAILS OF PIERS NO. 3 & 4



HALF SECTION THRU WEB

BRIDGE OVER LITTLE N. FORK OF WHITE RIVER

STATE ROAD FROM THEODOSIA TO GAINSVILLE
ABOUT 57 MILES W. OF WEST PLAINS
PROJECT NO. RT. 3C(80) SEC. 3-A STA. 375+90
OZARK COUNTY

K-817R

Drawn Aug. 1950 by R.P.P.
Traced Aug. 1950 by B.R.G.
Checked Aug. 1950 by C.S.G.

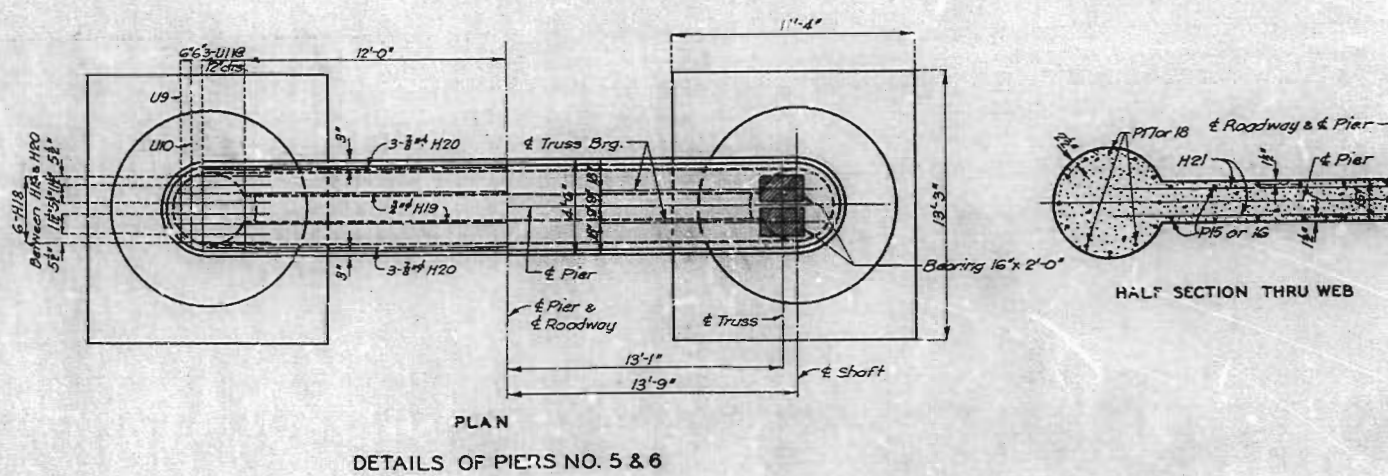
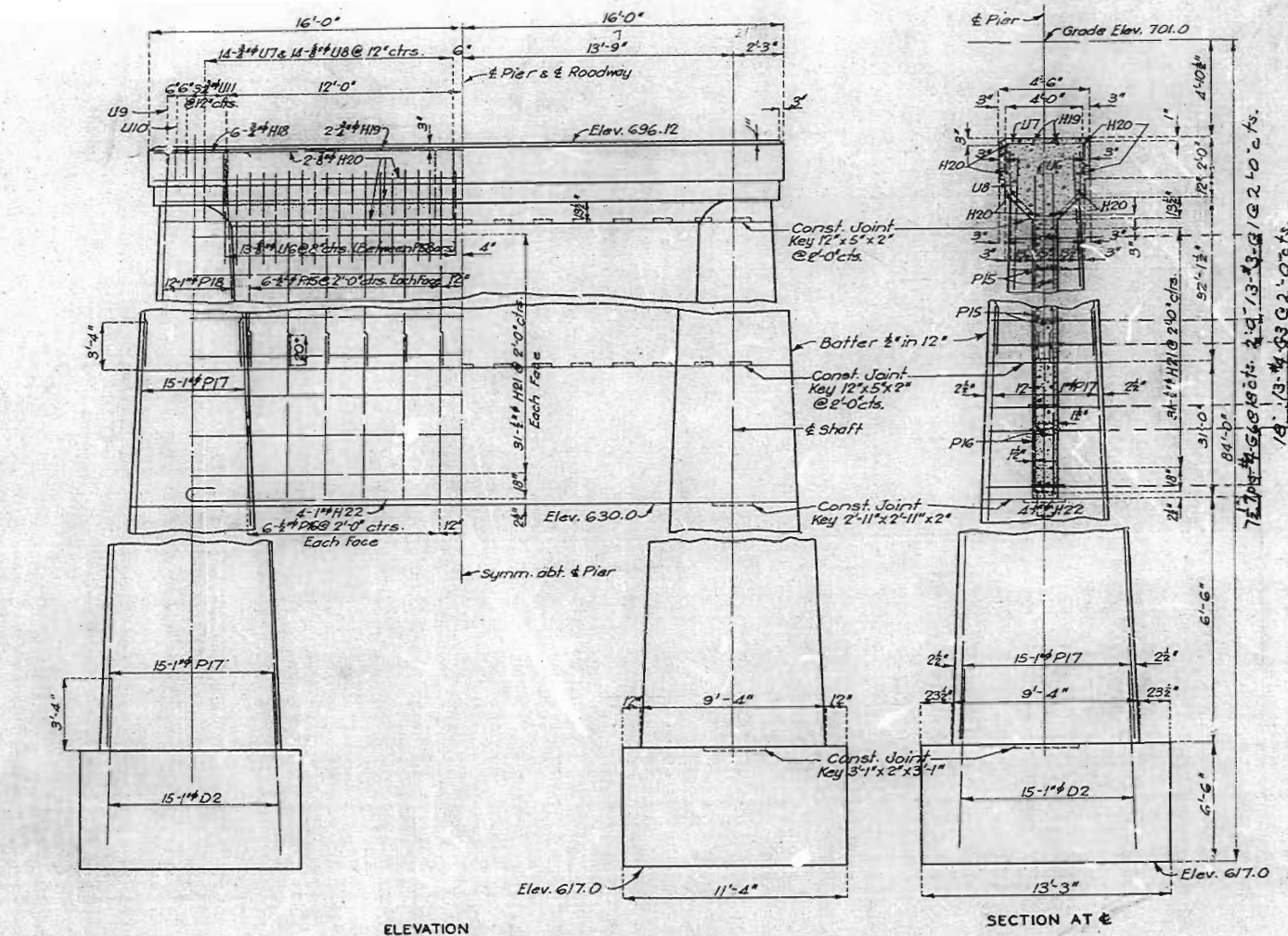
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 10

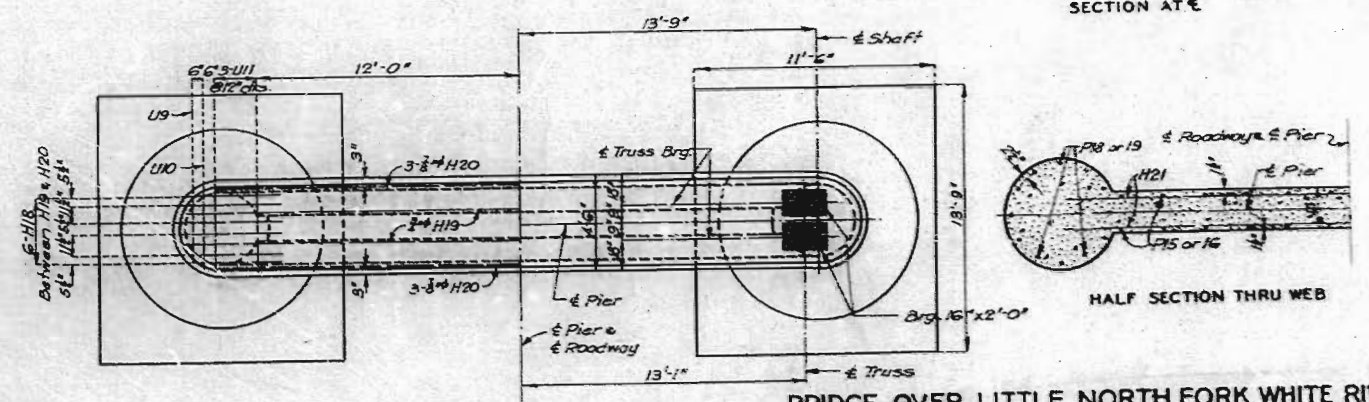
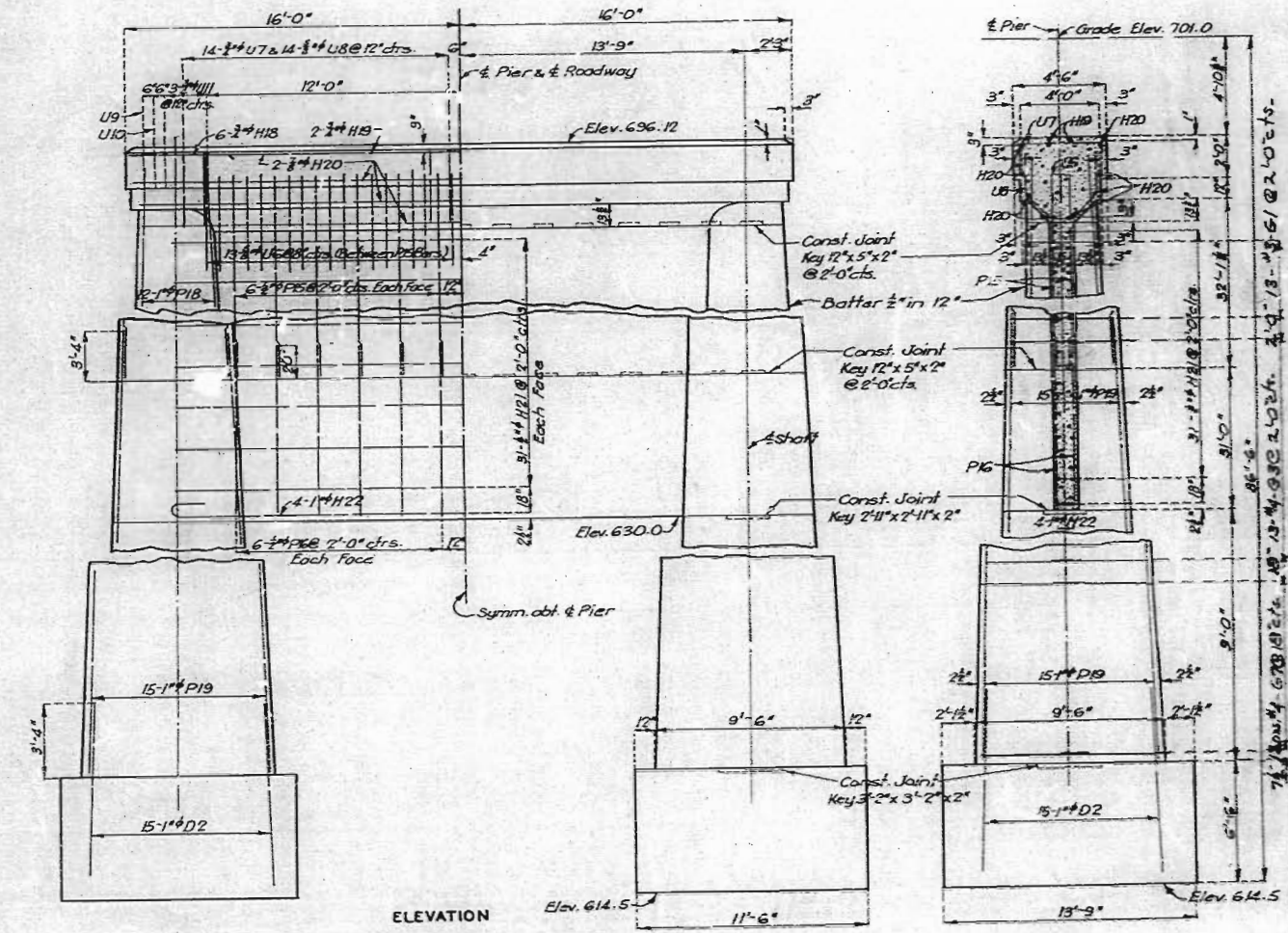
Rev. 4-27-51

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	47, SEC. 3A	19		



DETAILS OF PIERS NO. 5 & 6



DETAILS OF PIER NO. 7

BRIDGE OVER LITTLE NORTH FORK WHITE RIVER

STATE ROAD FROM THEODOSSIA TO GAINESVILLE
ABOUT 57 MILES W. OF WEST PLAINS
PROJECT NO. RT. SC (80) SEC. 3A STA. 375+98
OZARK COUNTY

Drawn Aug. 1950 By R.P.P.
Traced Aug. 1950 By B.G. & J.T.F.
Checked Aug. 1950 by C.S.A.

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

Sheet No. 5 of 10.

Rev. 9-27-51

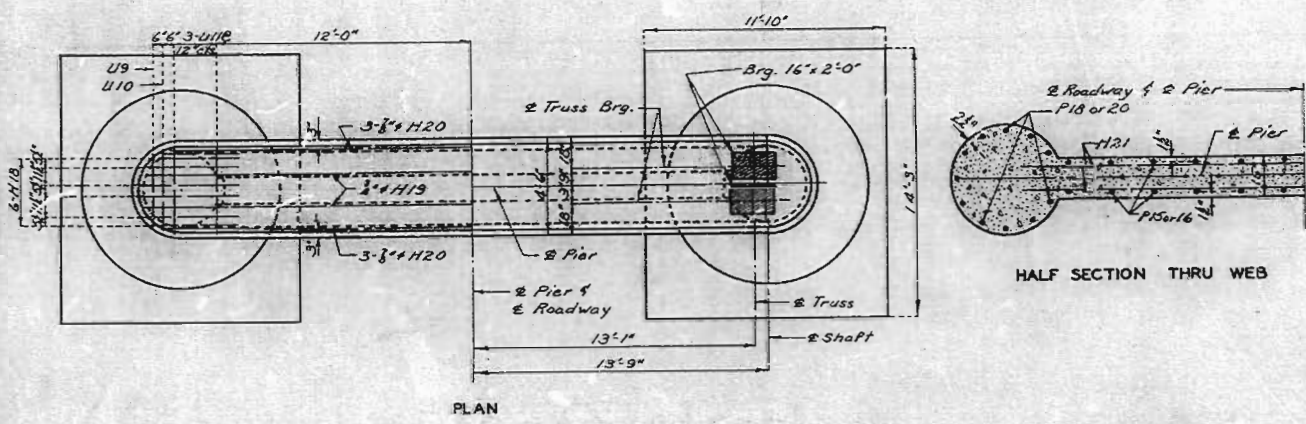
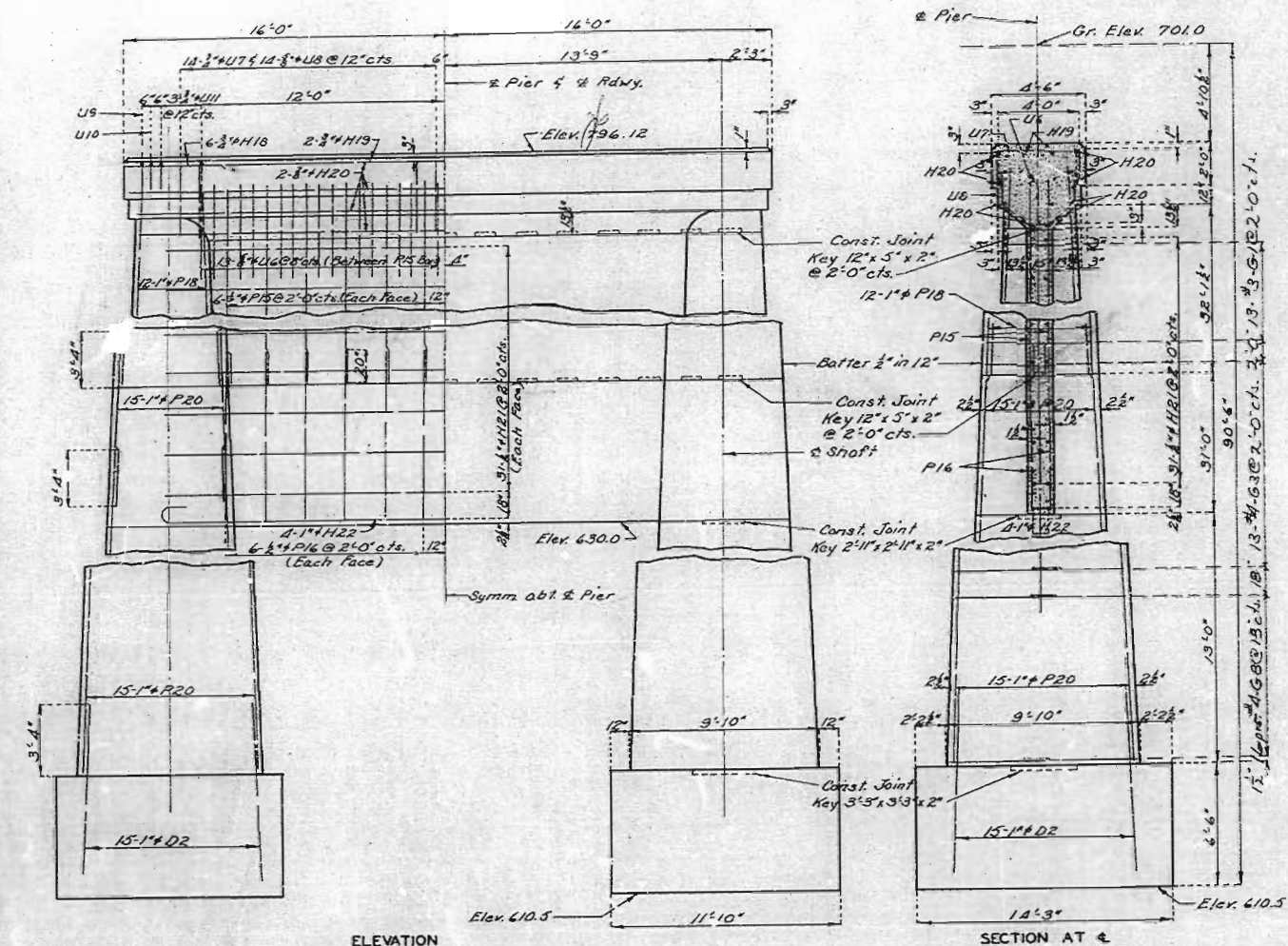
K-847 R

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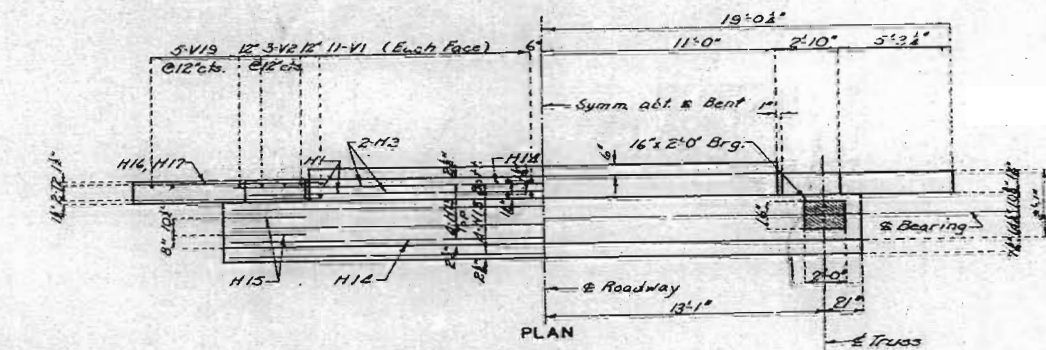
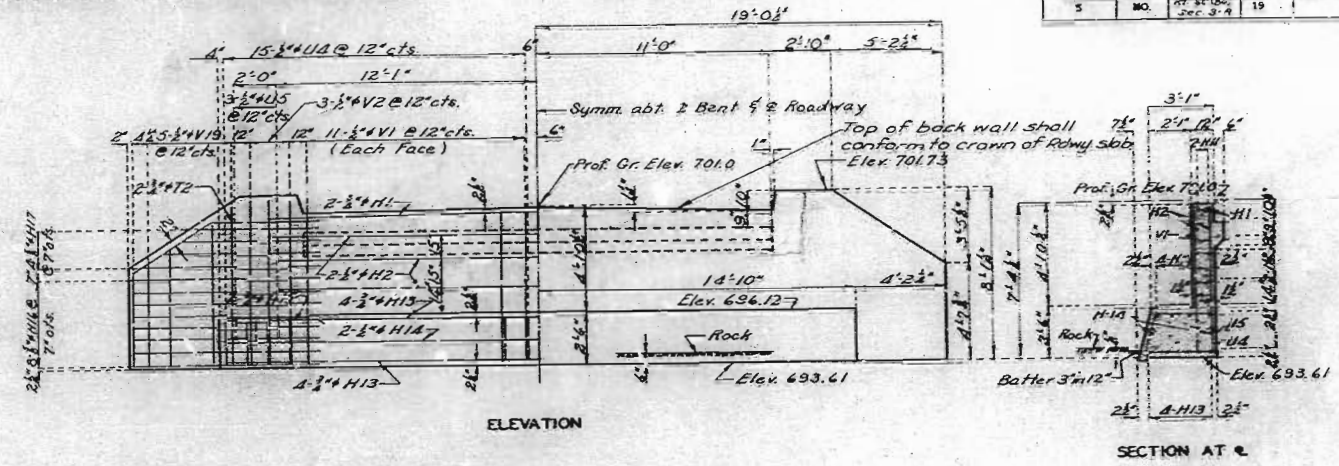
12

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	RT. SC(100) Sec. 3-A	19		



DETAILS OF PIERS NO. 8, 9, & 10



DETAILS OF END BENT NO. 11

BRIDGE OVER LITTLE N FORK WHITE RIVER
STATE ROAD FROM THEODOSSIA TO GAINSVILLE
ABOUT 57 MILES W. OF WEST PLAINS
PROJECT NO. RT. SC(100) SEC. 3-A STA. 375+9.8
OZARK COUNTY

Drawn Aug. 1950 by H.J.K. & R.P.P.
Traced Aug. 1950 by A.J.K.
Checked Aug. 1950 by C.S.A.

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

Sheet No. 6 of 10.

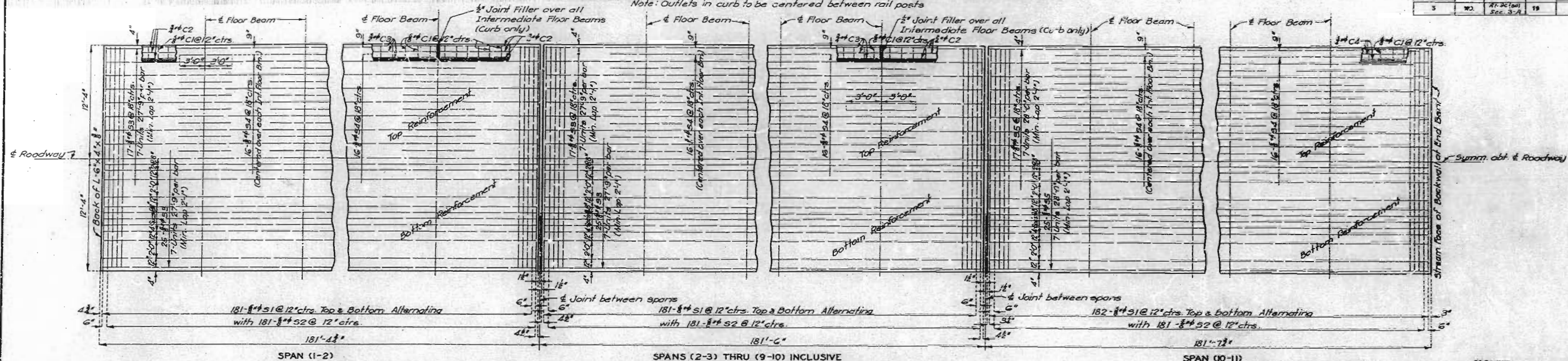
Revised 8-27-51

K-817 R

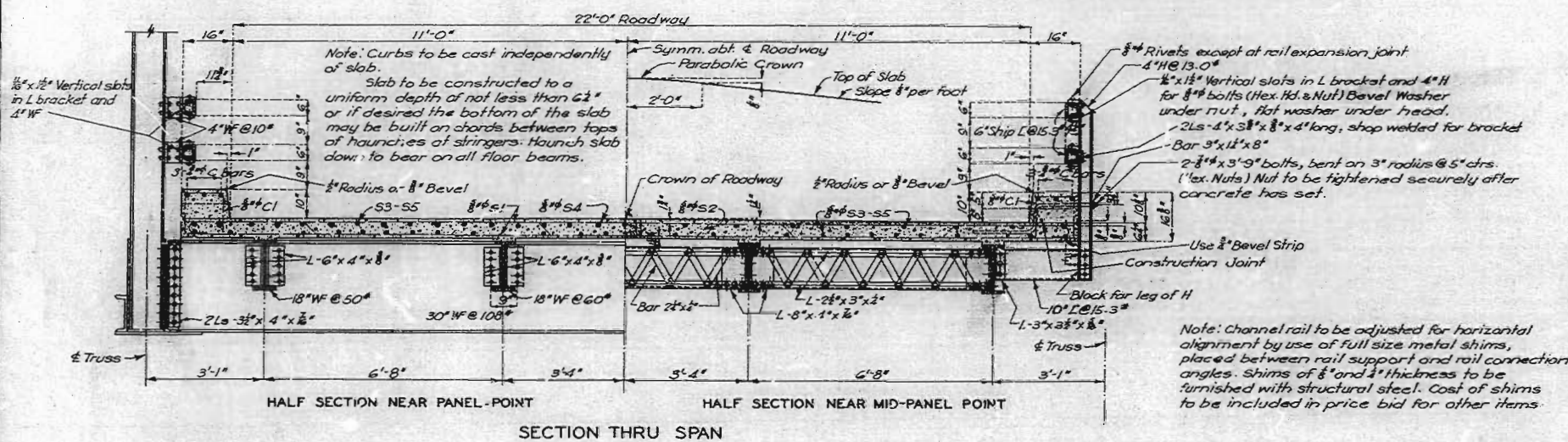
MISSOURI STATE HIGHWAY DEPARTMENT

Note: Outlets in curb to be centered between rail posts

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	RT-2C(101) Sec. 3-A	19		



PART PLAN OF SLAB SHOWING REINFORCING

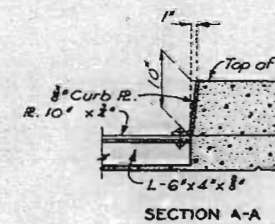


SECTION THRU SPAN

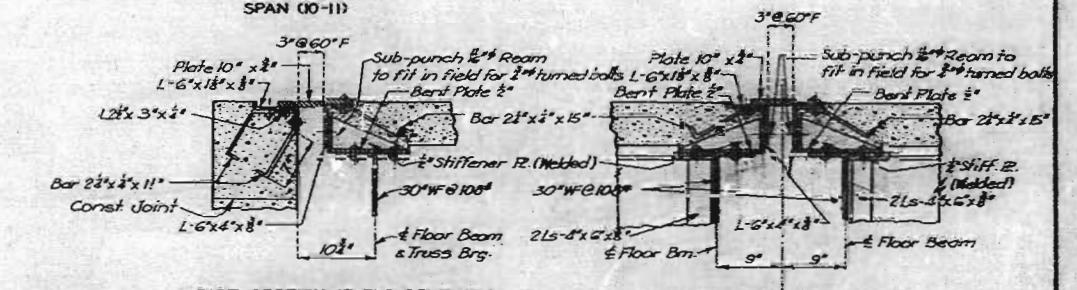


Note: Use bevel as shown for exposed faces of all filled joints except at top surface of roadway slab. Use edging tool with 3/4\" radius at top surface of roadway slab each side of joint and fill flush with joint seal as shown.

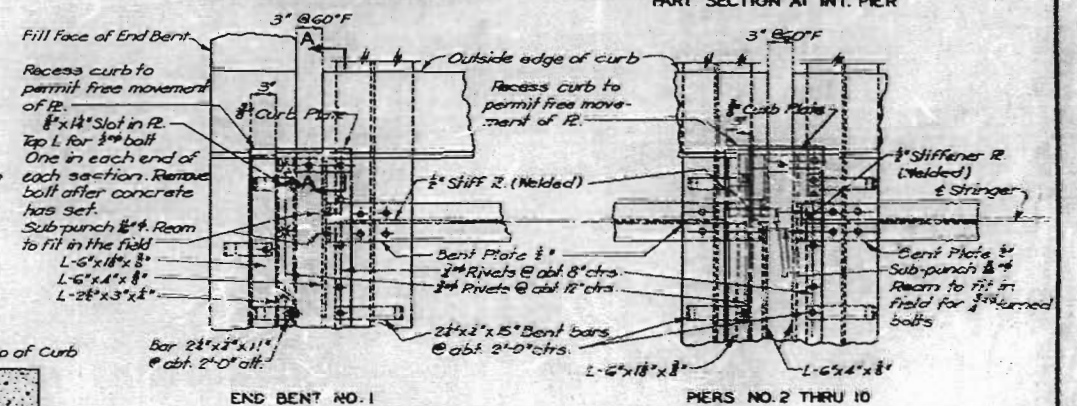
DETAILS OF BEVEL FOR FILLED JOINTS



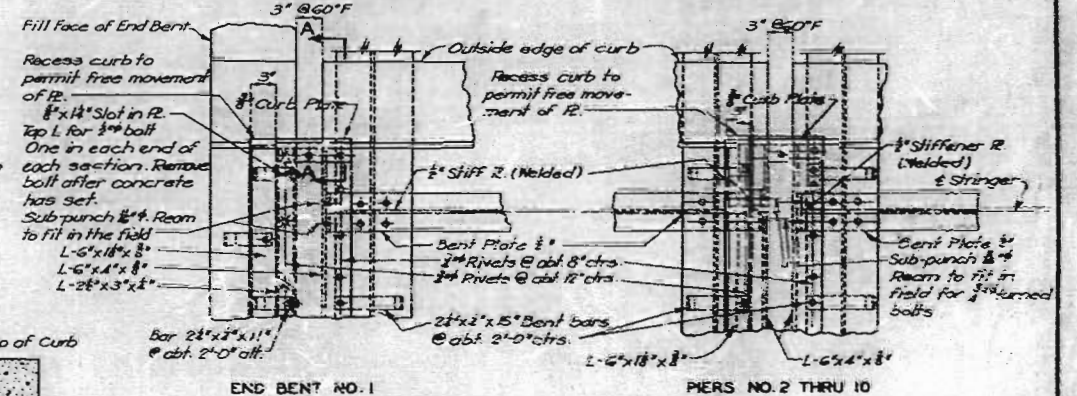
SECTION A-A



PART SECTION AT END BENT NO. 1



PART SECTION AT INT. PIER



PART PLAN OF EXPANSION DEVICE

Note: Expansion device shall be fabricated in three sections to splice at 3/4\" Bent Plate at intermediate stringers, and shall be bent to conform to crown of roadway. Joints in material making up expansion device shall be staggered at least 6\".

BRIDGE OVER LITTLE NORTH FORK WHITE RIVER

STATE ROAD FROM THEODOSIA TO GAINSVILLE
ABOUT 57 MILES W. OF WEST PLAINS
PROJECT NO. RT SC (80) SEC. 3-A STA. 375 + 98

OZARK COUNTY

K-817R

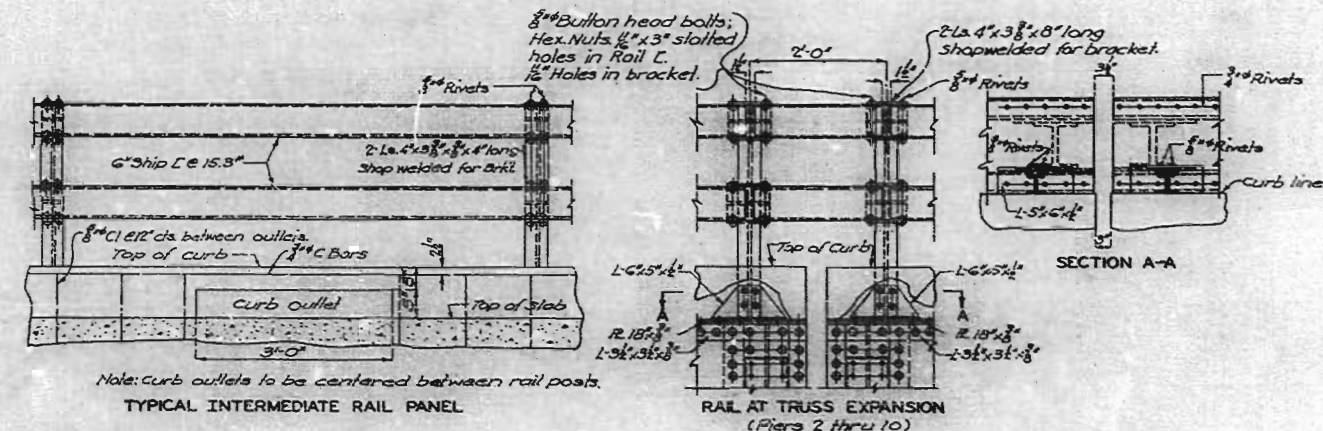
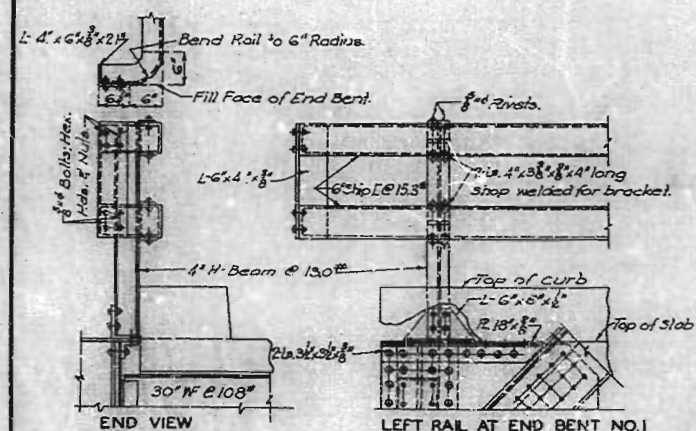
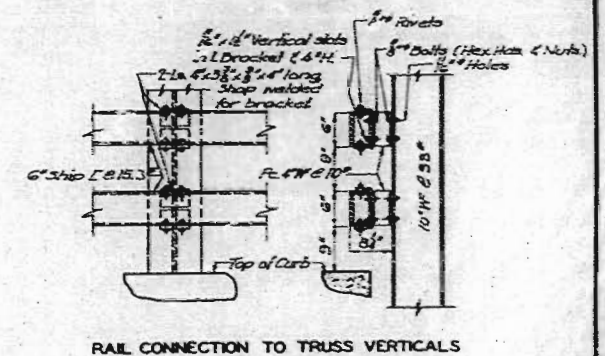
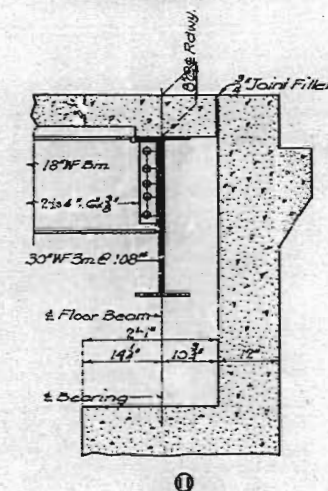
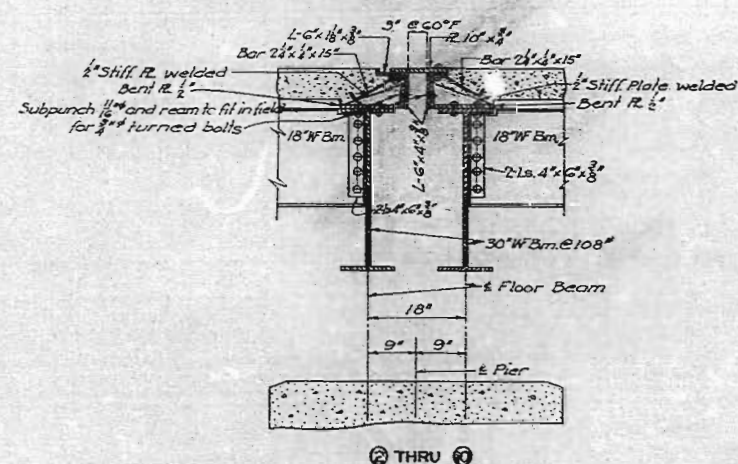
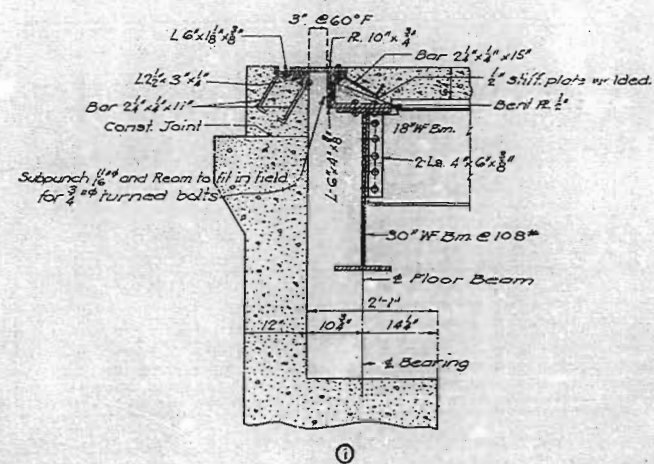
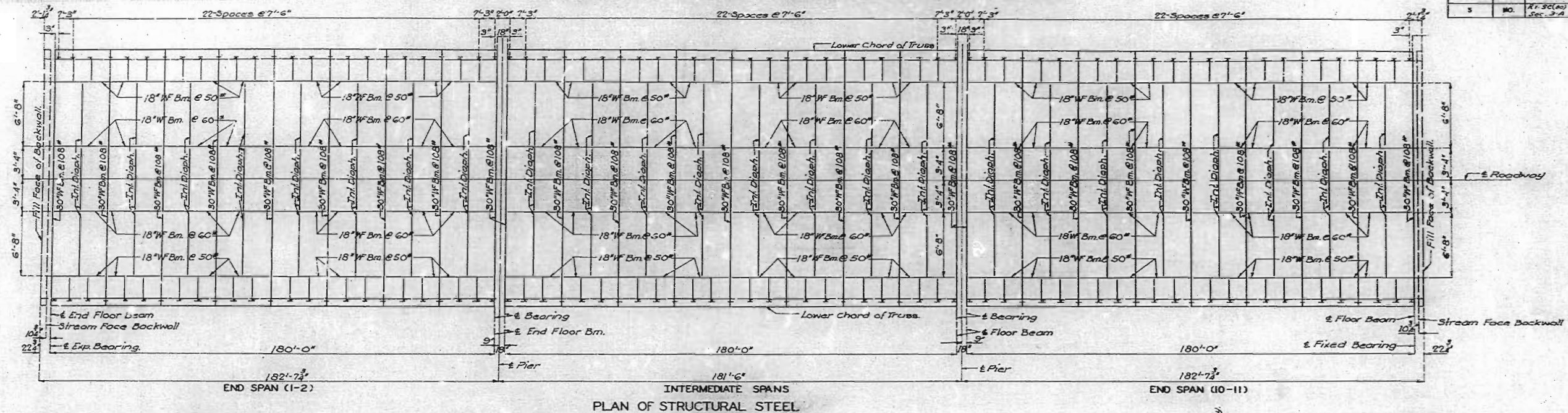
Designed July 1950 by C.R.P.
Drawn July 1950 by A.A.B.
Traced July 1950 by J.T.F.
Checked Aug 1950 by R.H.L.

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

Sheet No. 7 of 10

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	RT SC(80) Sec. 3-A	19		



Designed July 1950 by C.R.P.
Drawn July 1950 by C.R.P.
Traced Aug. 1950 by K.R.W.
Checked Aug. 1950 by R.L.L.

DETAILS OF HANDRAIL

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

Sheet No. 8 of 10

BRIDGE OVER LITTLE NORTH FORK WHITE RIVER

STATE ROAD FROM THEODOSIA TO GAINSVILLE
ABOUT 57 MILES W OF WEST PLAINS
PROJECT NO. RT SC(80) SEC. 3-A STA. 375 + 98

OZARK

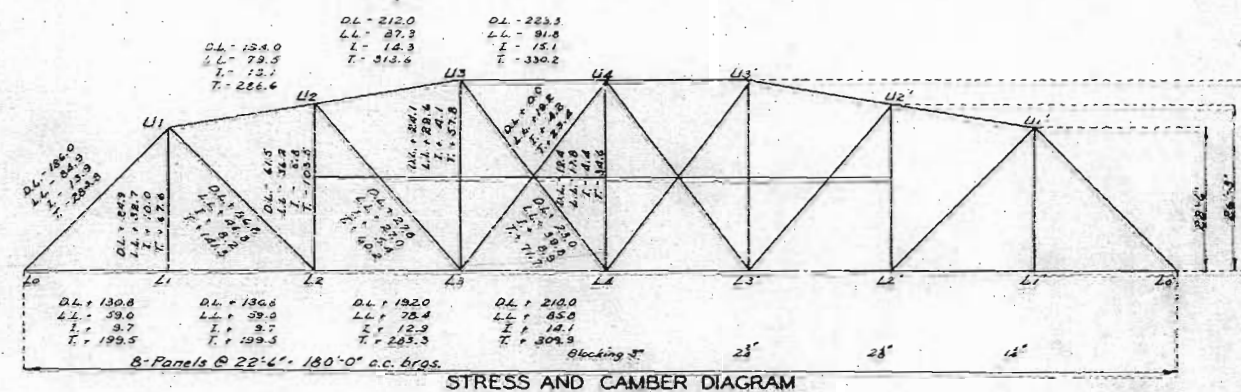
COUNTY

K-817 R

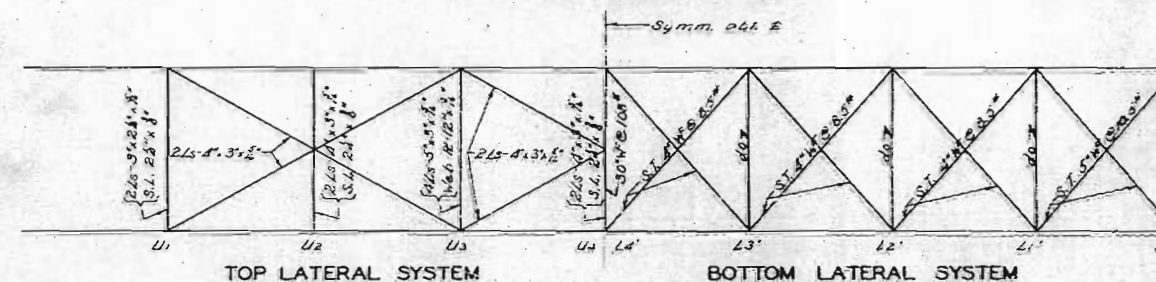


205 12-5-51

K-817R

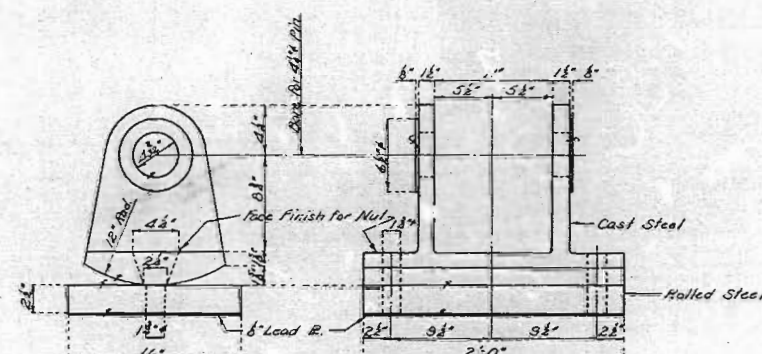


STRESS AND CAMBER DIAGRAM



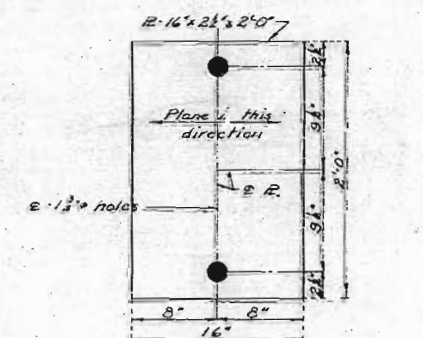
TOP LATERAL SYSTEM

BOTTOM LATERAL SYSTEM

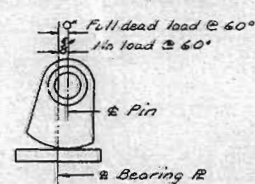


INTERMEDIATE FLOOR BEAM CONNECTION

DETAILS OF EXPANSION ROCKERS
(20 Required)

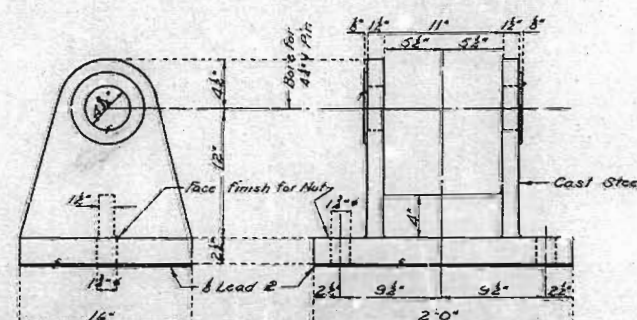


PLAN OF ROLLED STEEL PLATE

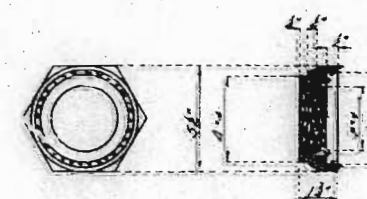


SHOE SETTING DIAGRAM

Note: Expansion shoes shall be set as shown above to counteract lengthening of lower chord under dead load. After false work has been removed and slab poured, shoes shall be checked for dimensions shown. For temperatures of steel different from 60°, add or subtract $\frac{1}{8}$ " for each 11° temperature difference.



DETAILS OF FIXED PEDESTALS
(20 Required)



CAST STEEL NUT

(30 Required)
40-44# Rolled Steel Pins Required

BRIDGE OVER LITTLE N.FORK OF WHITE RIVER

STATE ROAD FROM THEODOSSIA TO GAINSVILLE
ABOUT 57 MILES W OF WEST PLAINS
PROJECT NO. RT. SC(80) SEC. 3-A STA. 375+98

OZARK COUNTY

Drawn July 1950 by A.A.B.
Traced July 1950 by A.J.H.
Checked Aug. 1950 by R.H.L.

Note: All fillets $\frac{1}{2}$ " radius.
All anchor bolts to be 12" ϕ swaged bolts; Hex. nut; and are to be set 15" into concrete. Supply one 42" - old steel pin with 143" grip and Cast Steel nuts per shoe.

Note: This drawing is not to scale. Follow dimensions

Sheet No. 10 of 10

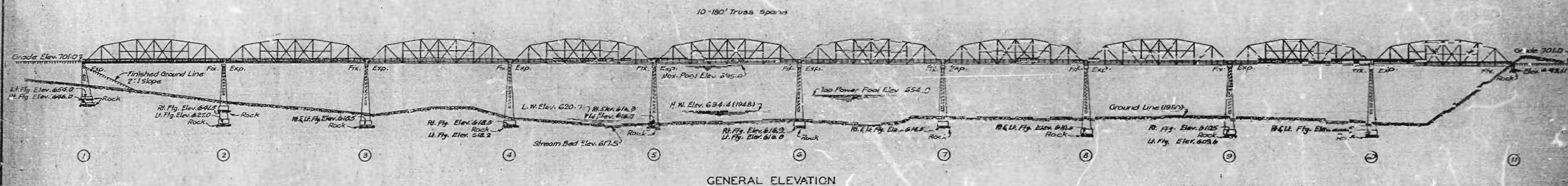
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K-817

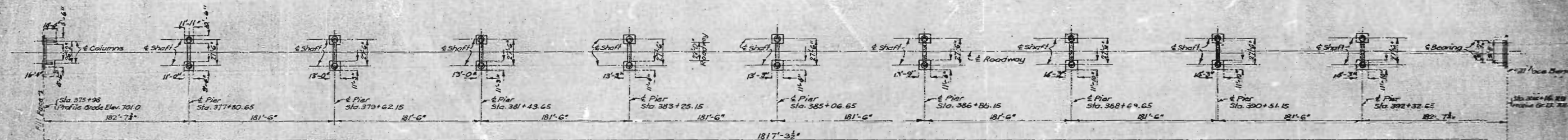
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	RT 304	1950	15	15

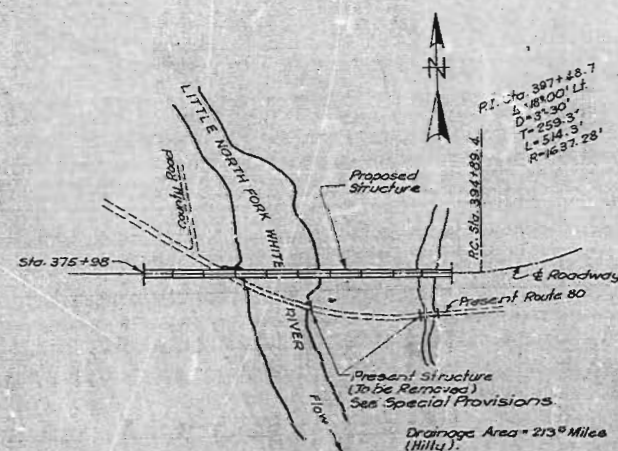
FINAL PLANS



GENERAL ELEVATION



PLAN



LOCATION SKETCH

GENERAL NOTES:

Design Specifications A.A.S.H.O. 1949.
Loading H15-44.
Structural Steel Stress 18,000 psi.
Reinforcing Steel Stress 18,000 psi.
Class "B" Concrete Stress 1,000 psi.
All Concrete shall be Class "B" (Air Entrained).
Rivets 3/4" except where otherwise noted.
Paint: Shop prime; field, contact surfaces of bolted field connections one coat of red lead and surfaces inaccessible after erection three coats of red lead. All other exposed surfaces one coat red lead, second coat of brown, and final coat Aluminum. Payment for cleaning and painting such surfaces shall be included in the price bid for Fabricated Structural Steel.
Where joint filler is specified it shall conform with the requirements for Premolded Material for Filler as given in Section 38-19.40 of the Standard Specifications.

FINAL QUANTITIES

Item	Quantity	Unit	Amount
Class 1 Excavation for Structures	11,103	Cu Yds	1053
Class 2 Excavation for Structures	11,925	Cu Yds	1135
Class "B" Concrete	3088.8	Cu Yds	1026.0
Fabricated Structural Steel	224,180	Lbs	224,180
Steel Coatings	11,300	Sq Yds	1,330.0
Reinforcing Steel	117,600	Lbs	257,350
Test Holes	136	No.	136

Excavation for bridge made above Elev. 625.0 will be paid for as Class 1 Excavation for Structures.
Excavation for bridge made below Elev. 625.0 will be paid for as Class 2 Excavation for Structures.

BL 14 - Elev. 640.10 7'01" top of North wing - end of Bridge 50' Rt. of Sta. 381+93 (See Level Datum).

BRIDGE OVER LITTLE NORTH FORK WHITE RIVER

STATE ROAD FROM THEDOSIA TO GAINESVILLE
ABOUT 57 MILES W. OF WEST PLAINS
PROJECT NO. RT 304 (60) SEC. 3A STA. 375+98

OZARK COUNTY

DESIGNED BY V.W. Enslaw 2/17/1951
APPROVED BY C.W. Brown 2/17/1951

FINISHED

STD. C-1025

K-817R

Sheet No. 1A of 5

FINAL PLANS

Rev. 9-21-51

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

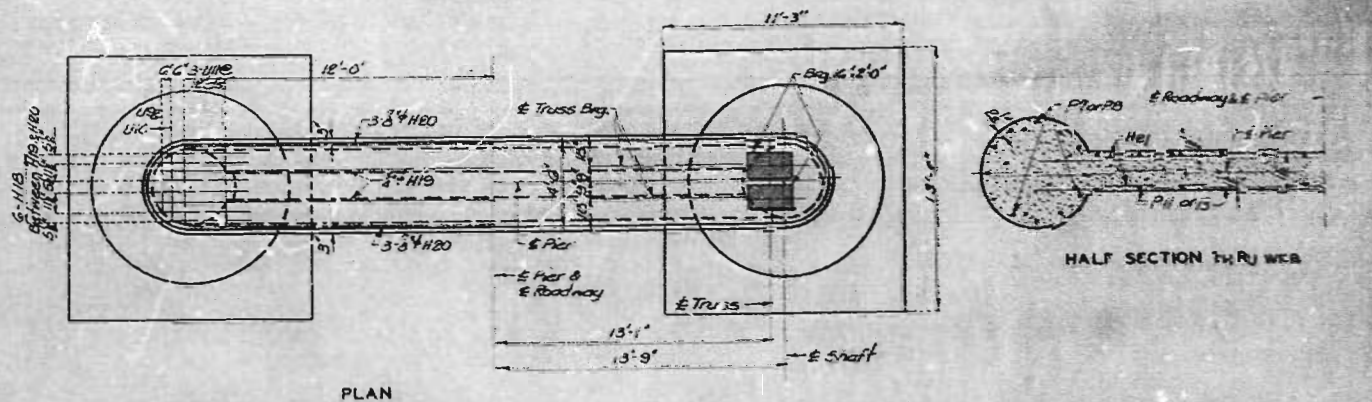
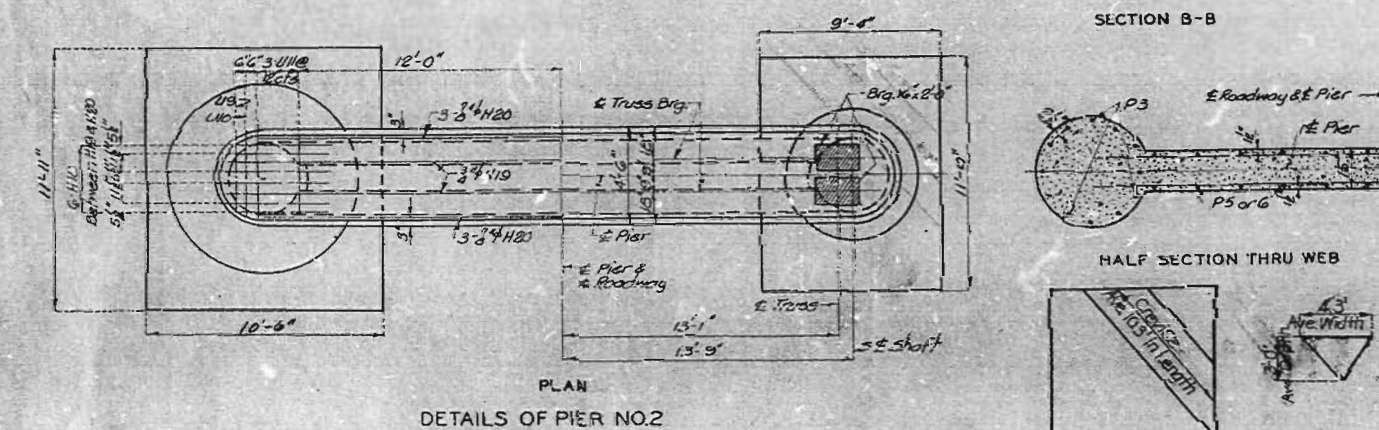
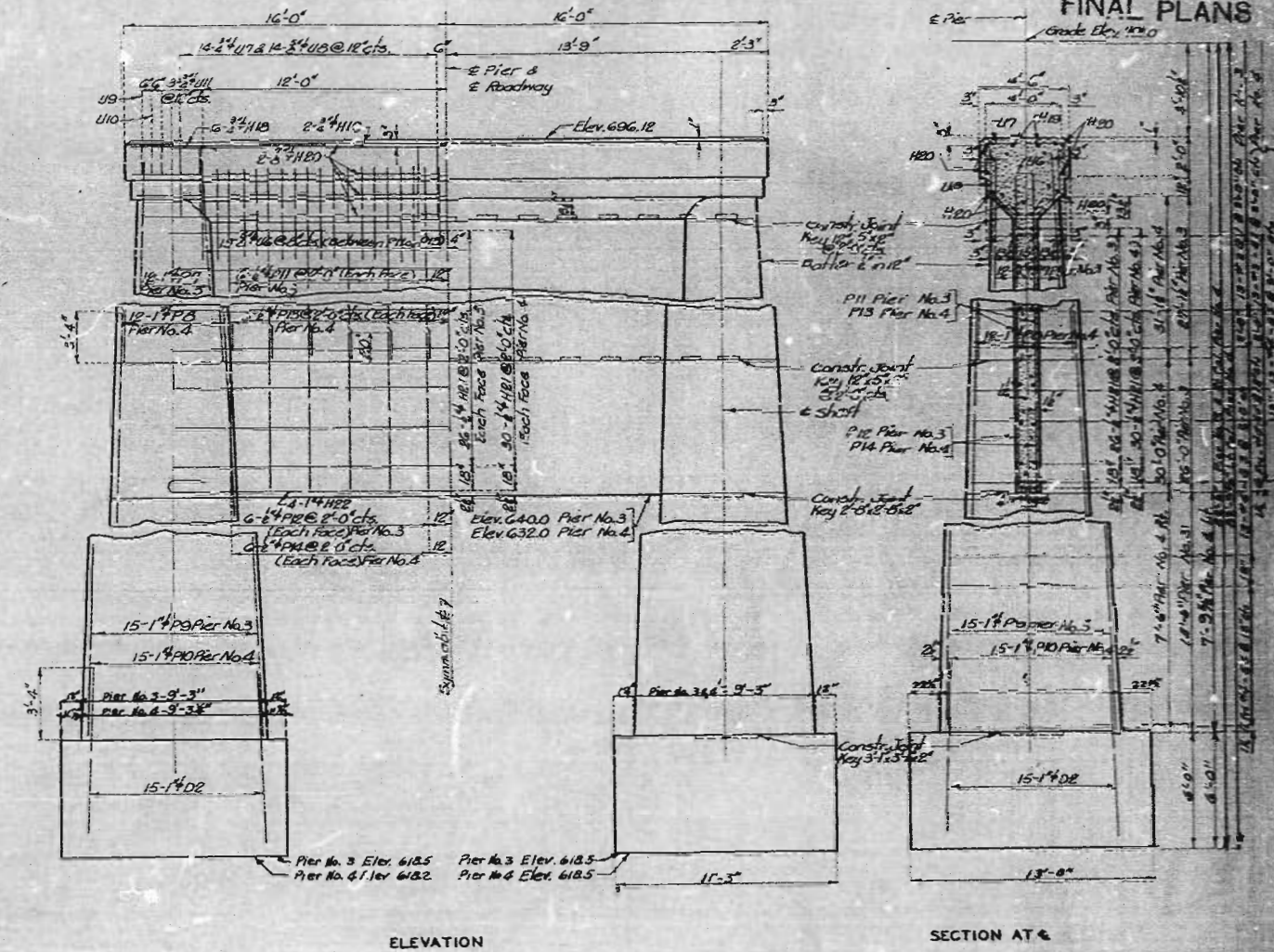
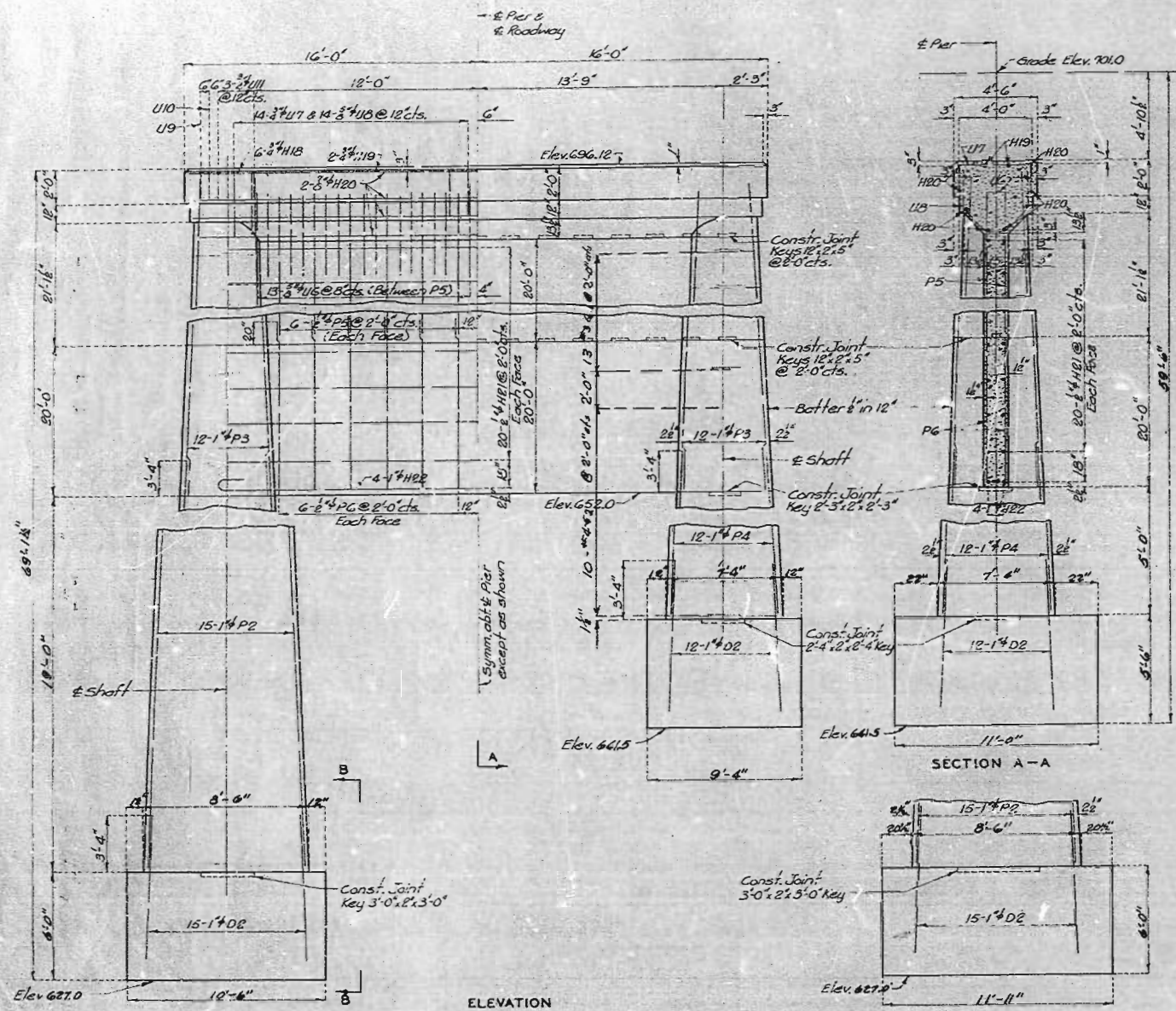
Drawn Aug. 1950 by C.R.P.
Traced Aug. 1950 by J.T.F.
Checked Aug. 1950 by R.H.L.

285

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	47-0140	19	1	1

FINAL PLANS



BRIDGE OVER LITTLE N FORK OF WHITE RIVER

STATE ROAD FROM THEODOSIA TO GAINESVILLE
ABOUT 57 MILES W. OF WEST PLAINS
PROJECT NO. RT. SC(80) SEC. 3-A STA. 375+98

OZARK COUNTY

Drawn Aug. 1950 by R.P.P.
Traced Aug. 1950 by B.R.G.
Checked Aug. 1950 by C.S.A.

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

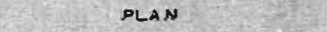
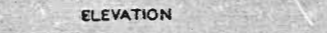
Sheet No. 1A of 5.

FINAL PLANS

K-817R

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FINAL PLANS



K-517R

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

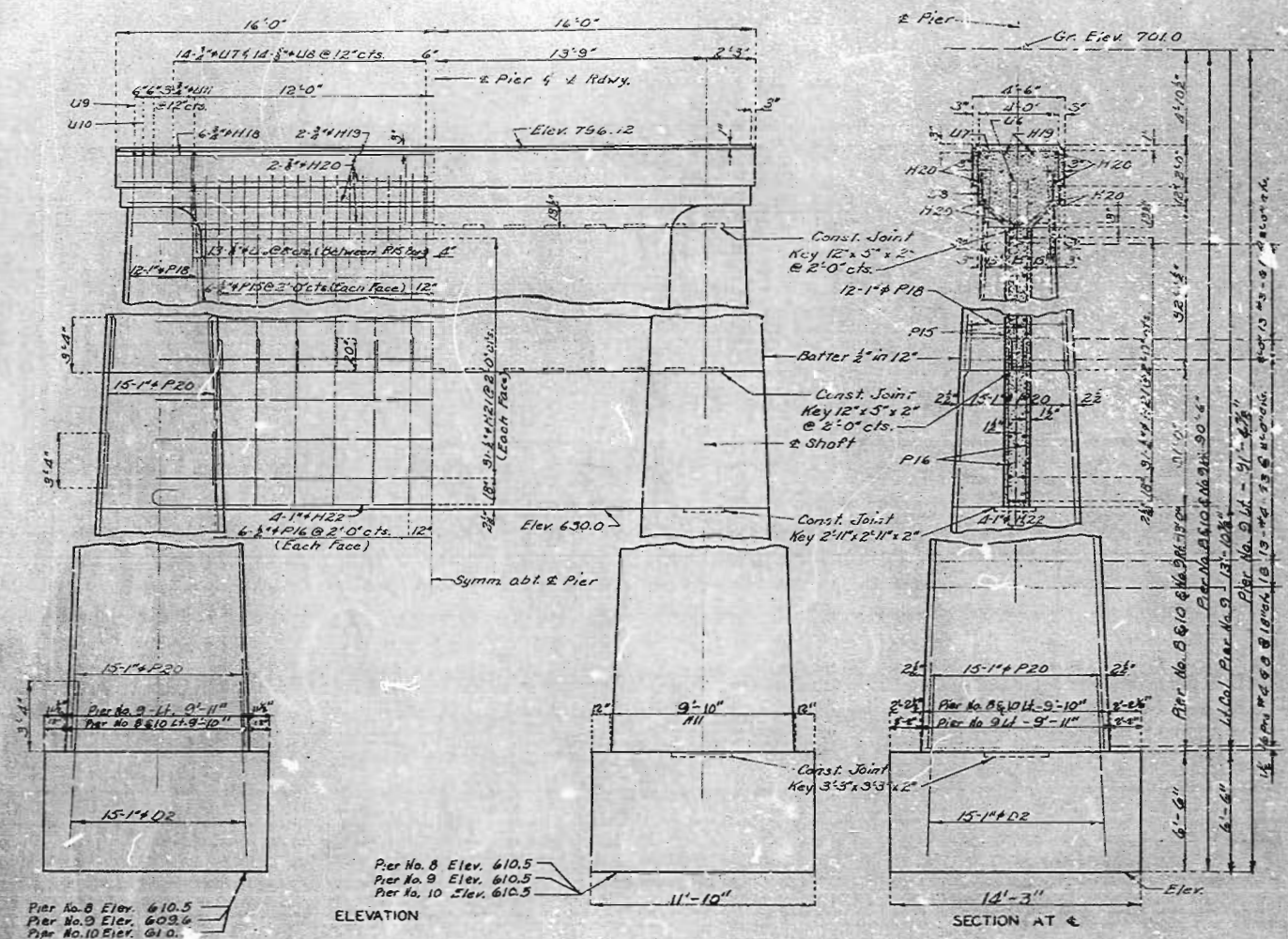
FINAL PLANS

4-27-51

MISSOURI STATE HIGHWAY DEPARTMENT

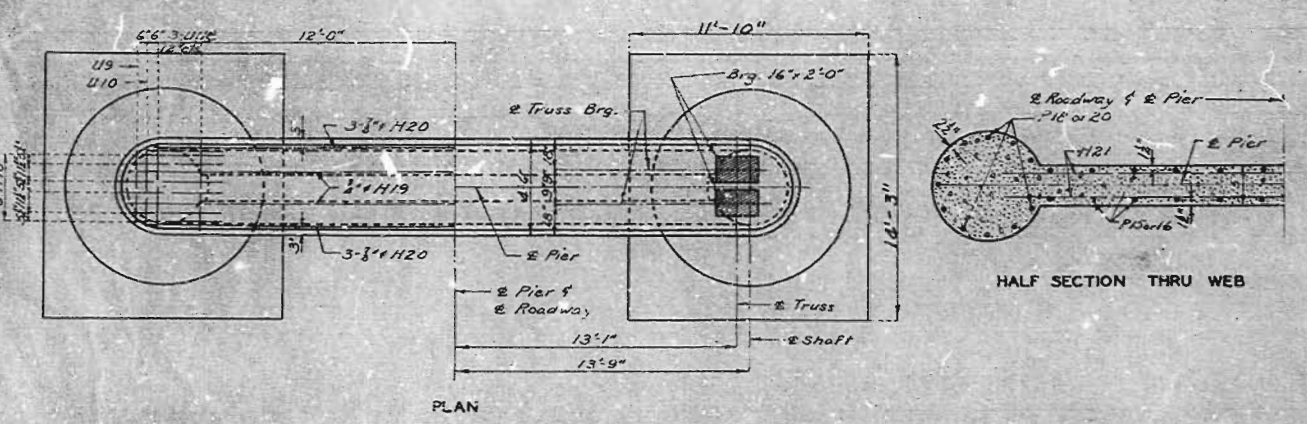
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FINAL PLANS



ELEVATION

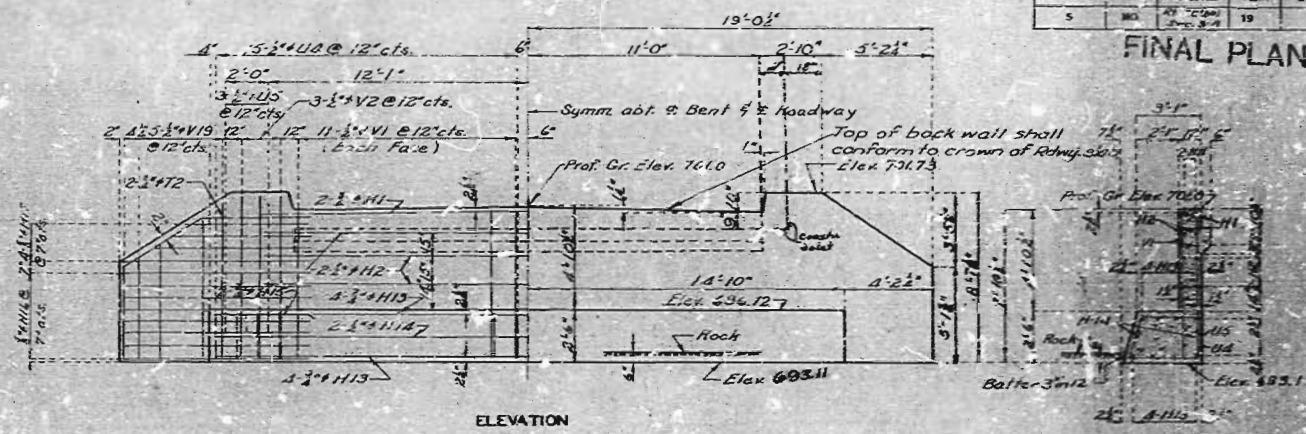
SECTION AT C



PLAN

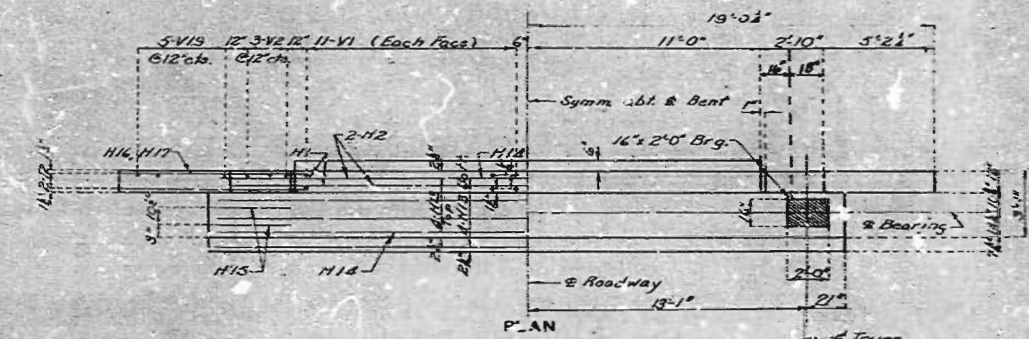
DETAILS OF PIERS NO. 8, 9, & 10

HALF SECTION THRU WEB



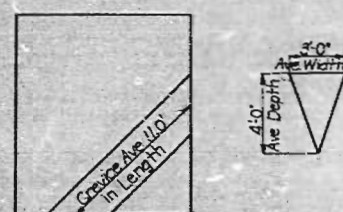
ELEVATION

SECTION AT E



PLAN

DETAILS OF END BENT NO. 11



LEFT FOOTING-PIER NO. 10

BRIDGE OVER LITTLE FORK WHITE RIVER
STATE ROAD FROM THEODOSIA TO GAINESVILLE
ABOUT 57 MILES W. OF WEST PLAINS
PROJECT NO. RT. SC(89) SEC. 3A STA. 372+98
OZARK COUNTY

K-817 R

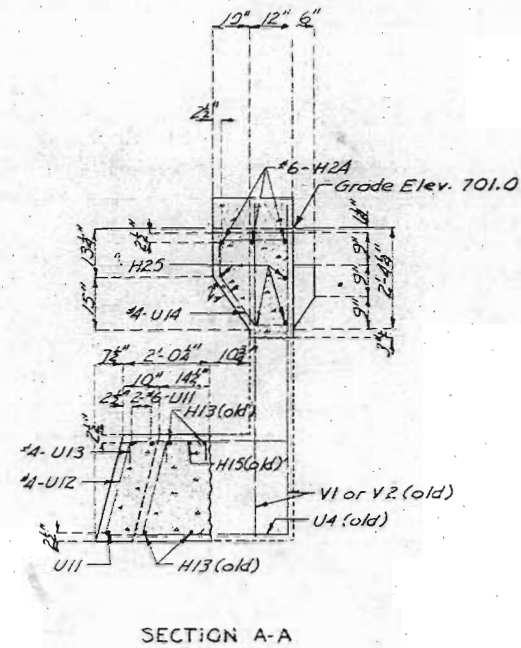
Drawn Aug. 1930 by H.J.K. & R.P.P.
Traced Aug. 1930 by A.C.A.
Checked Aug. 1930 by C.S.A.

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

Sheet No. 6A of 5.

FINAL PLANS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	RFB 50 (100) SFD 2-R	19		

[illegible]

DETAILS OF REVISED END BENT NO. 11

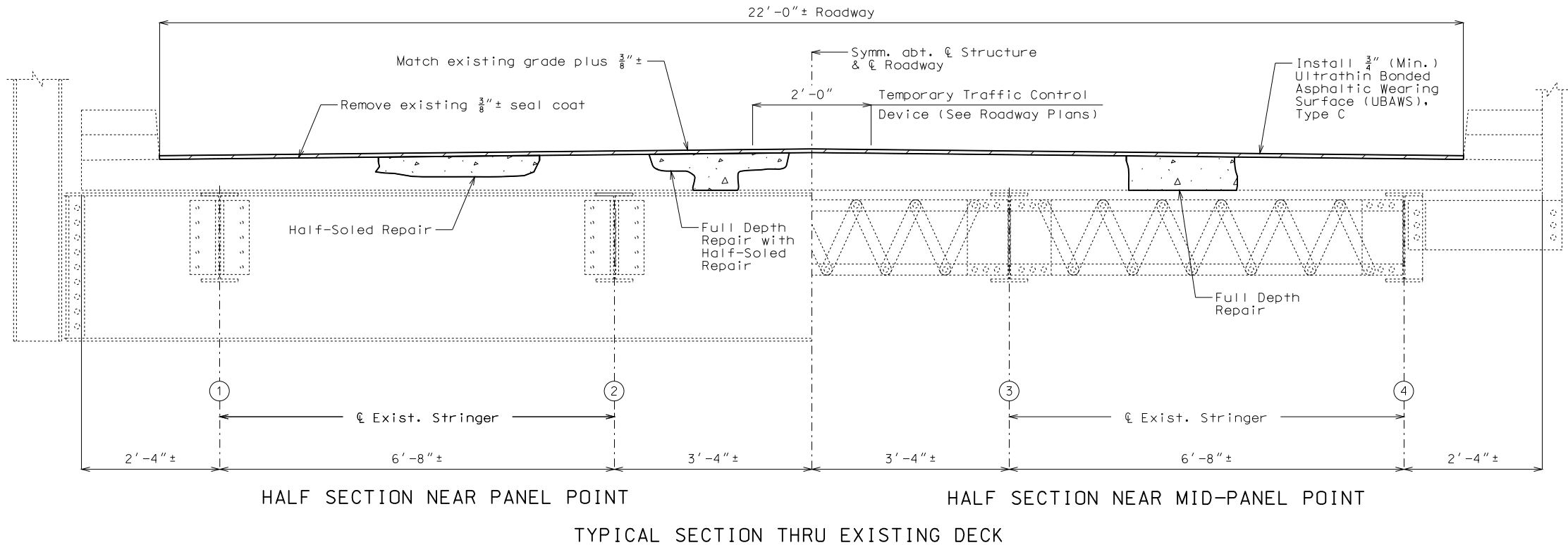
STATE ROAD
ABOUT
PROJECT NO. STA.
OZARK COUNTY

SUBMITTED BY _____ DATE _____
APPROVED BY _____ DATE _____

Sheet No. 6 A of 10

U.I.P. AND REHABILITATE EXISTING 10 @ (180') SIMPLE THRU TRUSS SPANS

SEC/SUR 19 TWP 22N RGE 15W



GENERAL NOTES:

- Design Specifications:**
- 2002 AASHTO LFD (17th Ed.) Standard Specifications
Bridge Deck Rating = 6
- Design Unit Stresses:**
- Structural Low Alloy Steel (ASTM A709 Grade 50) fy = 50,000 psi
- Concrete Protective Coatings:**
- Protective coating for concrete bents and piers (Epoxy) shall be applied as shown on the bridge plans and in accordance with Sec 711.
- Miscellaneous:**
- Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.
- Contractor shall verify all dimensions in field before ordering new material.
- High strength bolts, nuts and washers will be sampled for quality assurance as specified in Sec 106.
- Fabricated structural steel shall be ASTM A709 Grade 50, except as noted.
- Field connections shall be made with 3/4" diameter high strength bolts and 1/8" diameter holes, except as noted.
- Shop-drilled holes in new steel and existing holes in existing steel may be used as a template for field drilling new holes at connection joints with the installation of replacement end portals and sway frames.
- Removal and replacement of the end portals and sway frames, as shown in the plans, and any incidental work, complete in place, will be considered completely covered by the contract lump sum price for "Remove and Replace Portals and Sway Frames".
- All removed rivets in rehab structure shall be replaced with high strength bolts with flat washer under bolt head and nut (See Special Provisions).
- Roadway surfacing adjacent to the bridge ends shall match new bridge wearing surface (Roadway Item).

- Traffic Handling:**
- Traffic to be maintained on structure during construction except structure to be closed during heat straightening and removal and replacement of portals and sway frames. See roadway plans for traffic control.

Estimated Quantities		
Item		Total
Removal of Seal Coat	sq. foot	39,981
Ultrathin Bonded Wearing Surface, Type C	sq. yard	4,442
Substructure Repair (Unformed)	sq. foot	70
Repairing Concrete Deck (Half-Soling)	sq. foot	6,000
Full Depth Repair	sq. foot	400
Clean and Epoxy Seal	sq. foot	8,954
Protective Coating-Concrete Bents and Piers (Epoxy)	lump sum	1
Surface Preparation for Recoating Structural Steel	lump sum	1
Field Application of Inorganic Zinc Primer	lump sum	1
Intermediate Field Coat (System G)	lump sum	1
Finish Field Coat (System G)	lump sum	1
Remove and Replace Portals and Sway Frames	lump sum	1
Heat Straightening	lump sum	1

The State estimates there is approximately 98,000 pounds of new steel in the pay item "Remove and Replace Portals and Sway Frames" and that weight is used in preparing the cost estimate for the pay item. Variation may be encountered in the estimated weight but the variation cannot be used for an adjustment in the contract lump sum price.

- Structural Steel Protective Coatings:**
- Protective Coating: System G in accordance with Sec 1081.
- Coating Limits: All existing structural steel of the truss bridge, including curb rails.
- Surface Preparation: Surface preparation of the existing steel shall be in accordance with Sec 1081 for "Recoating of Structural Steel (System G, H or I)". The cost of surface preparation will be considered completely covered by the contract lump sum price for "Surface Preparation for Recoating Structural Steel".
- Prime Coat (Exist. Steel): The cost of the prime coat for existing steel will be considered completely covered by the contract lump sum price for "Field Application of Inorganic Zinc Primer". Tint of the prime coat for System G shall be similar to the color of the field coat to be used.
- Prime Coat (New Steel): The cost of the prime coat for new steel will be considered completely covered by the contract lump sum price for "Remove and Replace Portals and Sway Frames". Tint of the prime coat for System G shall be similar to the color of the field coat to be used.
- At the option of the contractor, the intermediate field coat and finish field coat may be applied in the shop. The contractor shall exercise extreme care during all phases of loading, hauling, handling and erection to minimize damage and shall be fully responsible for all repairs and cleaning of the coating systems as required by the engineer.
- Field Coats: The color of the field coats shall be Brown (Federal Standard #30045). The cost of the intermediate field coat will be considered completely covered by the contract lump sum price for "Intermediate Field Coat (System G)". The cost of the finish field coat will be considered completely covered by the contract lump sum price for "Finish Field Coat (System G)".
- The surfaces of existing steel that will become faying surfaces for new connections of replacement end portals and sway frames shall be cleaned according to the manufacturer's recommendation and with a minimum of SSPC-SP-3 surface preparation and coated with one prime coat of Gray Epoxy-Mastic Primer (non-aluminum) in accordance with Sec 1081.
- For the duration of cleaning and recoating the truss spans, the truss span superstructure in any span shall not be draped with an impermeable surface subject to wind loads for a length any longer than 1/4 the span length at any one time regardless of height of coverage. Simultaneous work in adjacent spans is permissible using the specified limits in each span.

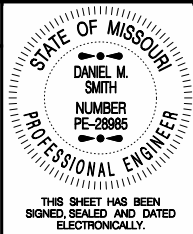
REPAIRS TO BRIDGE: ROUTE 160 OVER BULL SHOALS LAKE
ROUTE 160 FROM ROUTE 5 TO ROUTE 95
ABOUT 2.9 MILES EAST OF ROUTE 95
BEGINNING STATION 375+98.00± (Match Existing)

Detailed Apr. 2015
Checked June 2015

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

Sheet No. 1 of 7

STD. 616.10



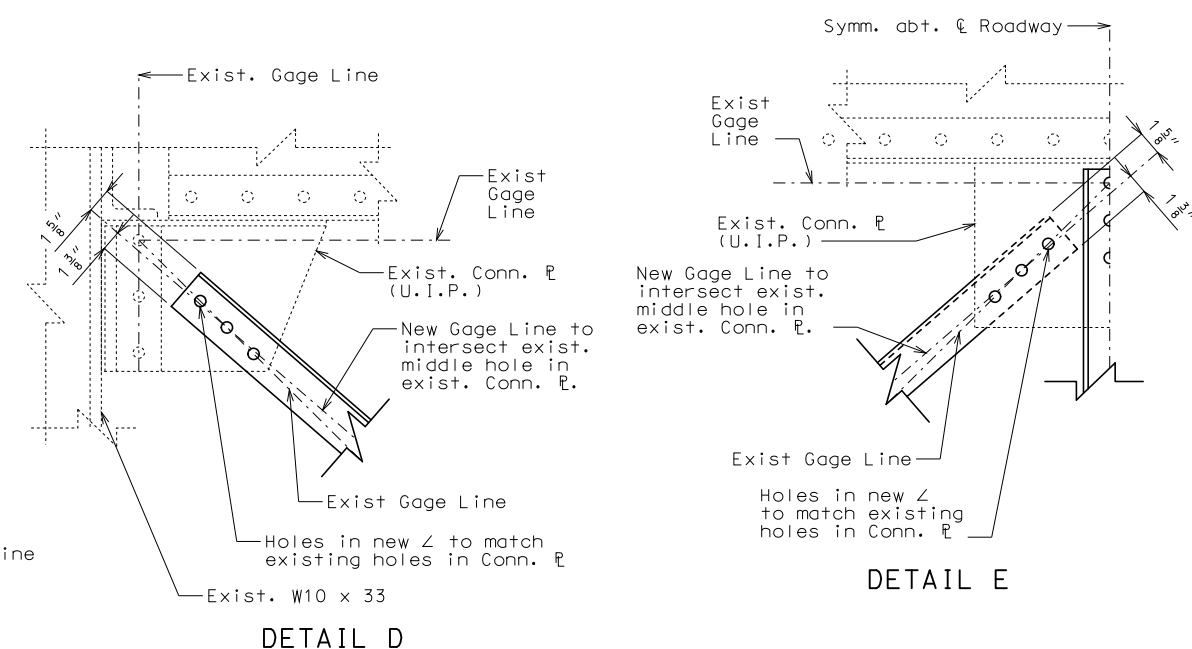
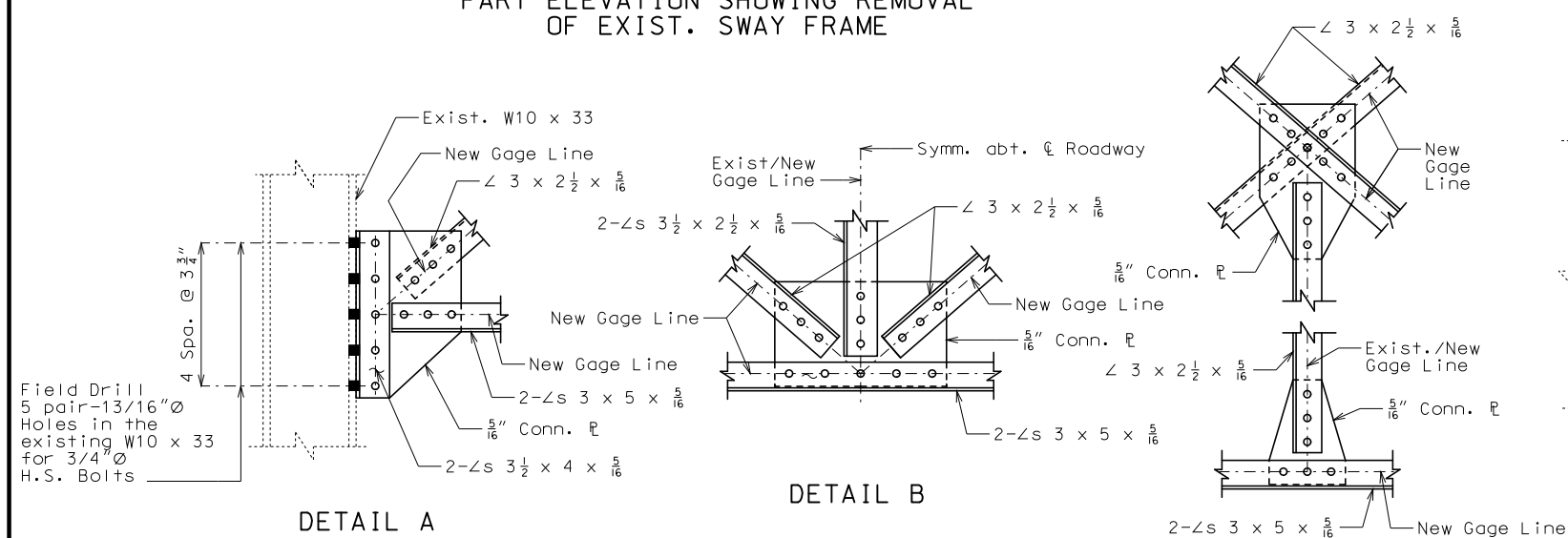
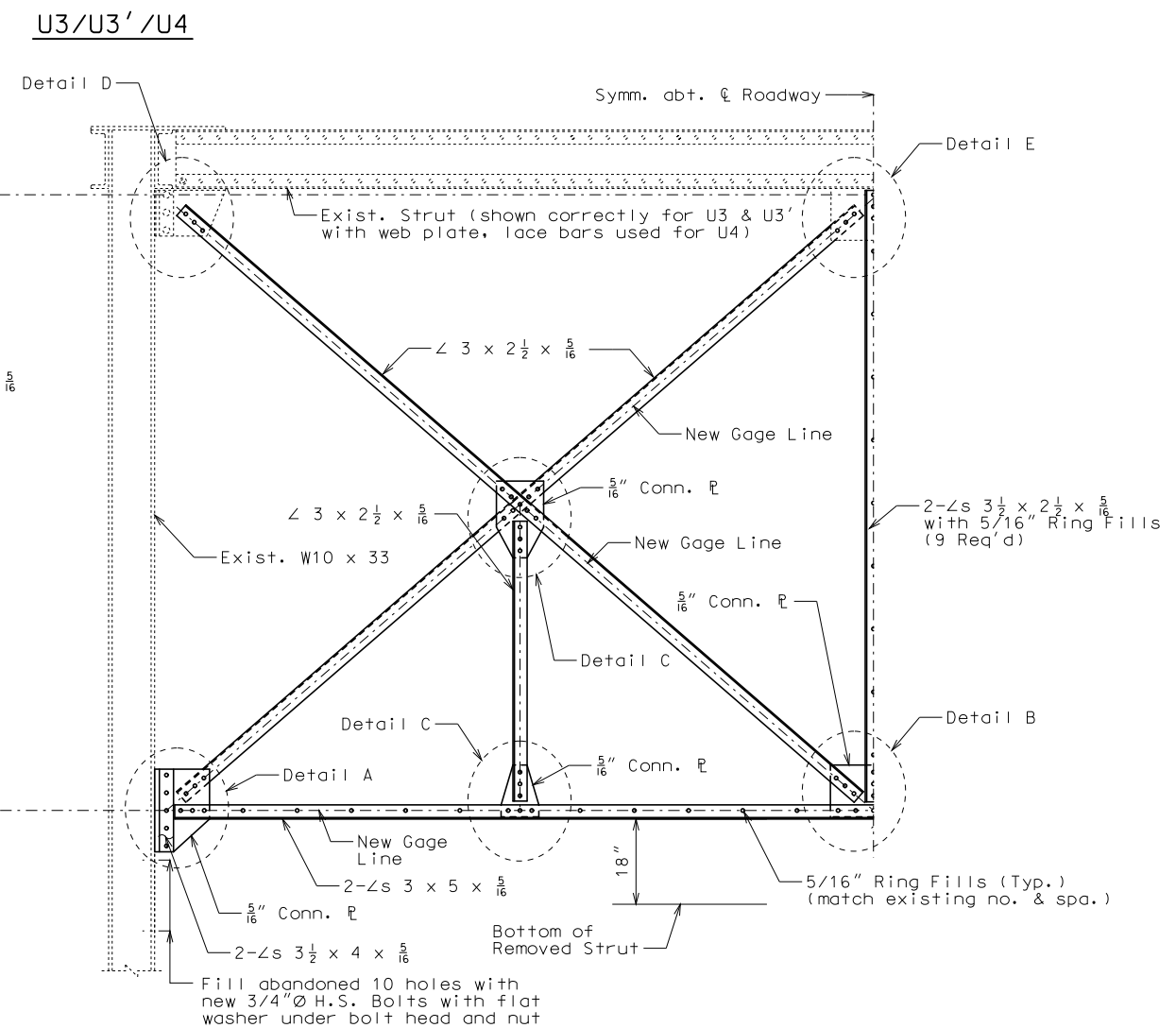
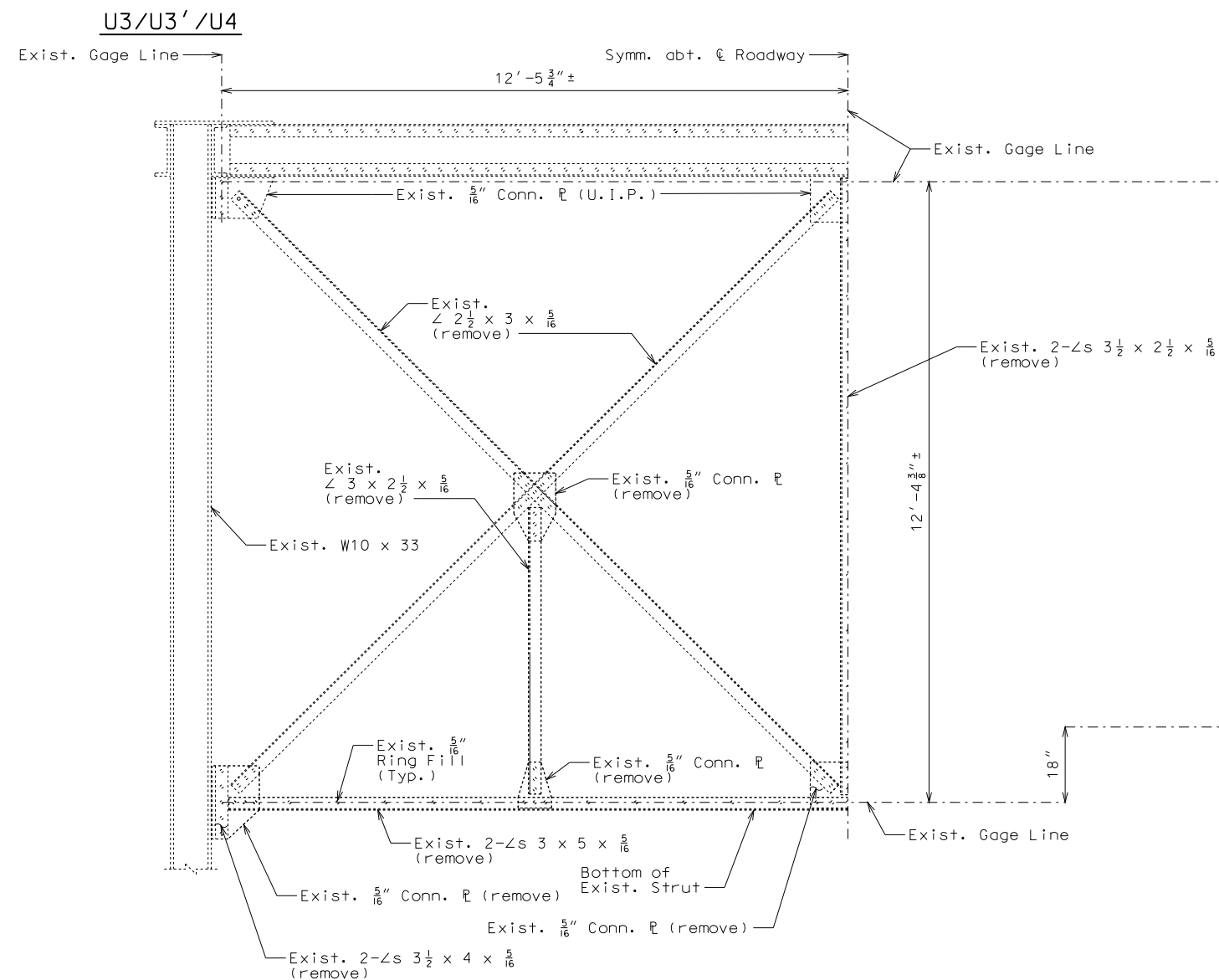
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ROUTE 160	STATE MO
DISTRICT BR	SHEET NO. 1
COUNTY OZARK	
JOB NO. J9P3024	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. K08172	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	105 WEST CAPITAL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

Detailed Apr. 2015
Checked June 2015

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

Sheet No. 3 of 7



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
9/3/2015

ROUTE 160	STATE MO
--------------	-------------

DISTRICT BR	SHEET NO. 3
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
COUNTY
OZARK

JOB NO.
J9P3024

CONTRACT ID.

PROJECT NO.

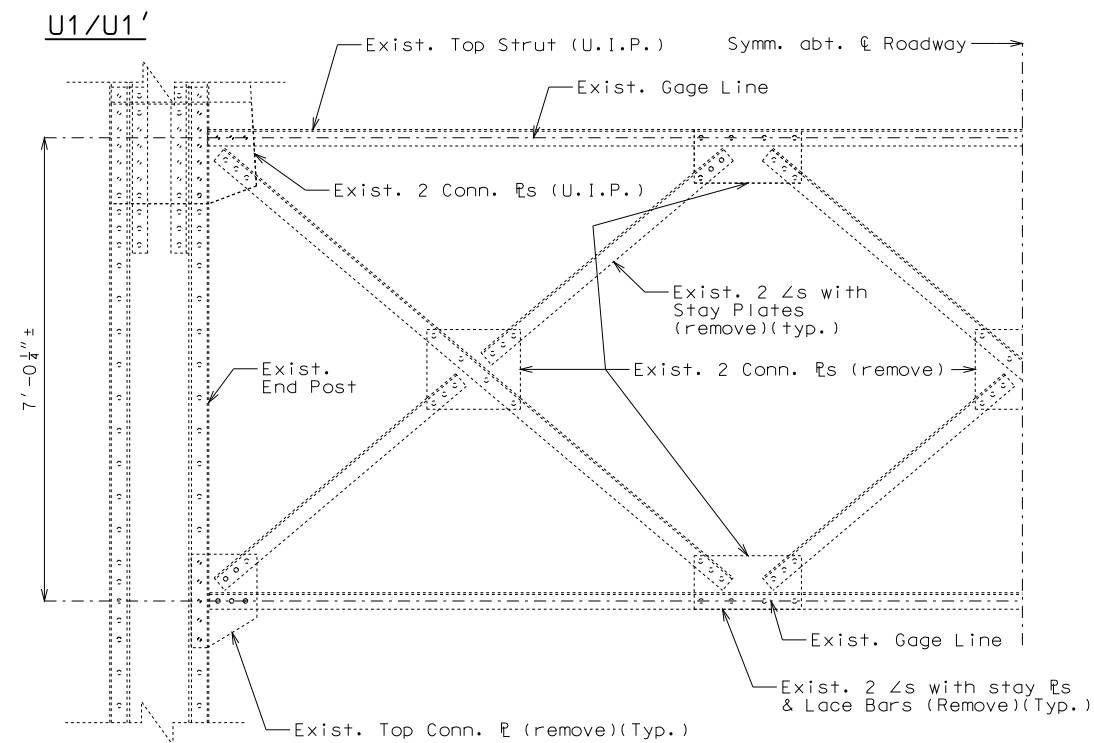
BRIDGE NO.	K08172
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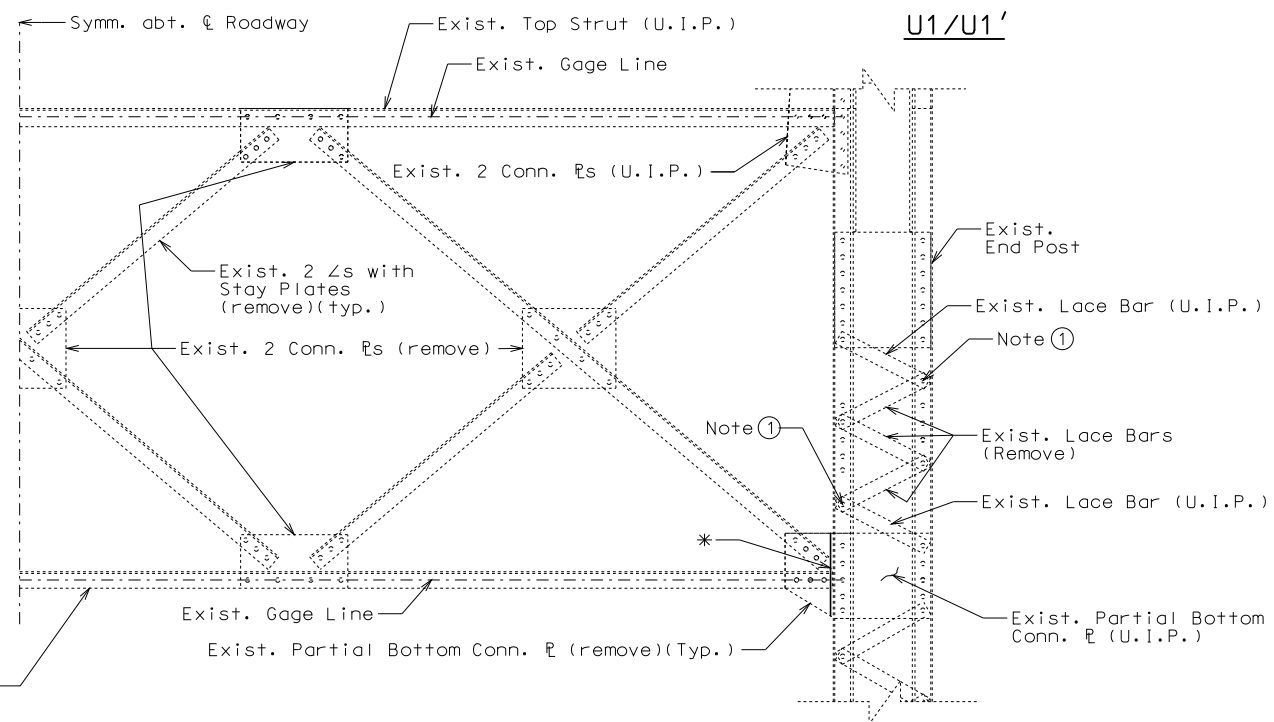
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

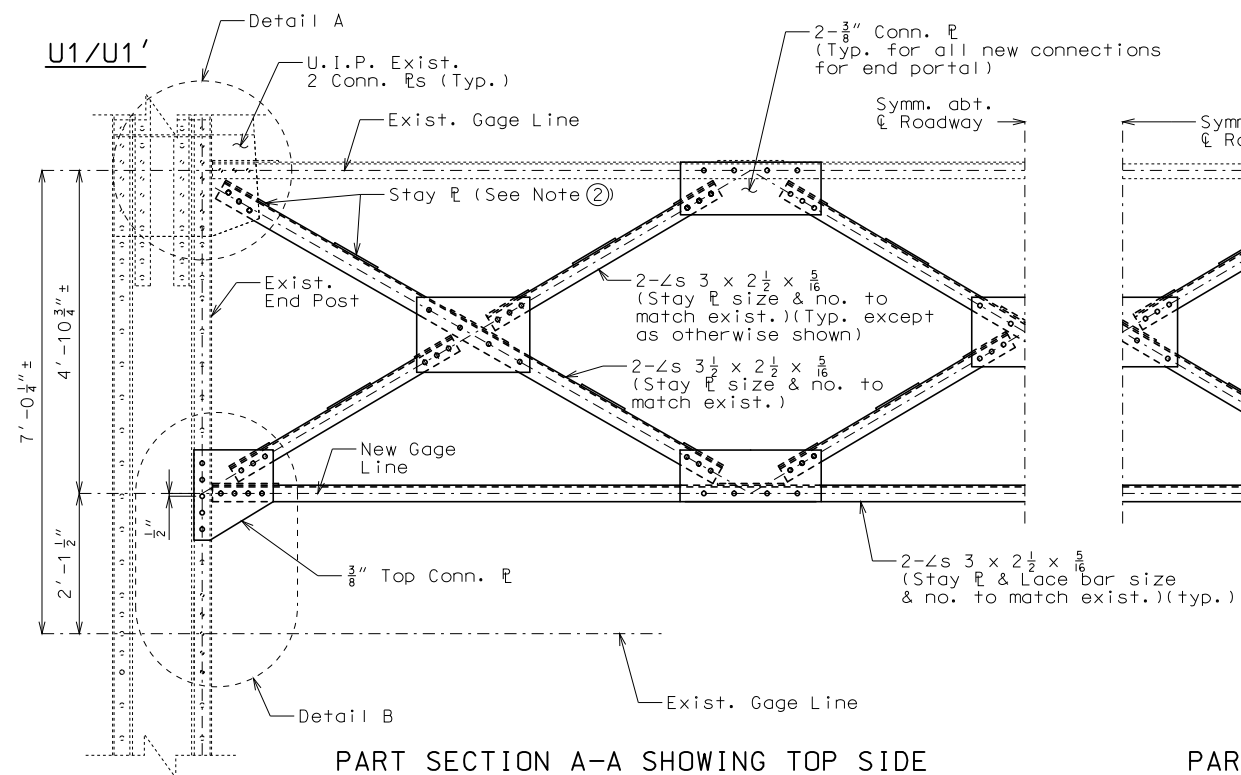
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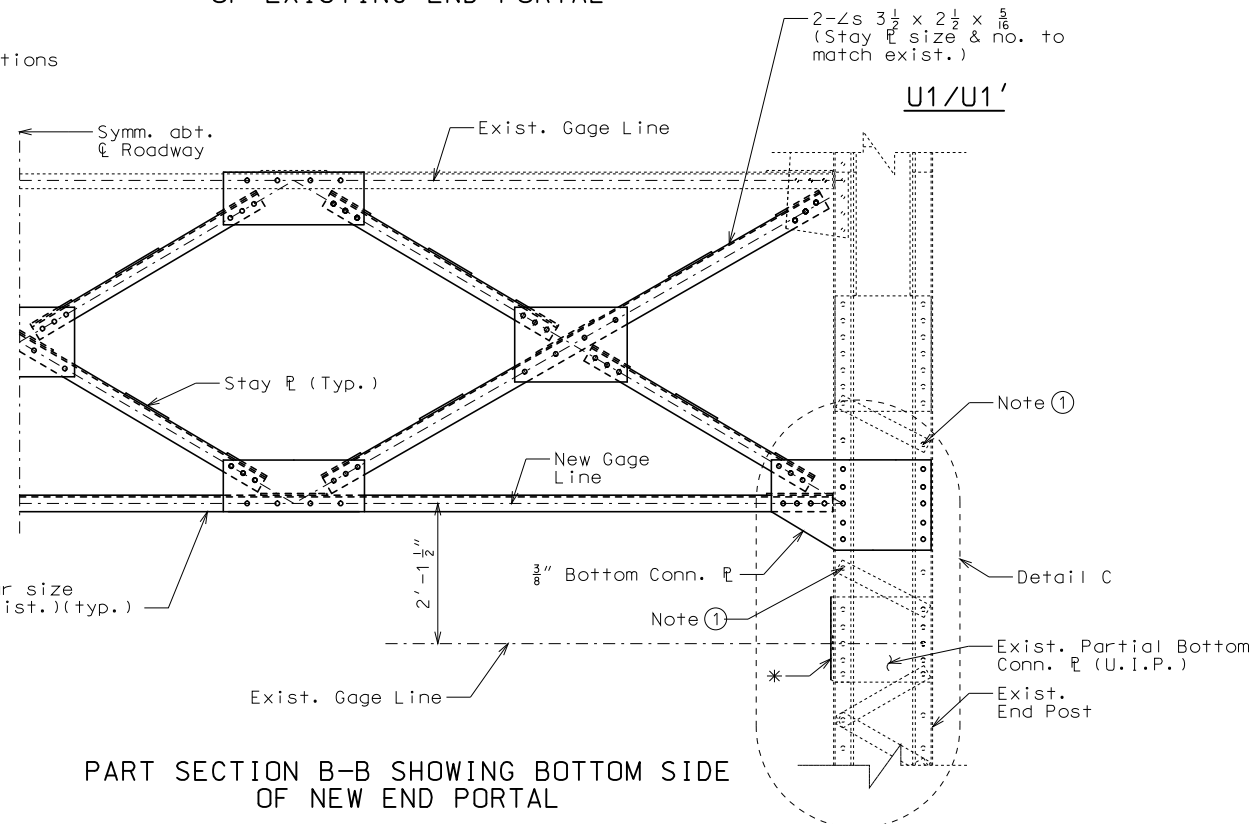
PART SECTION A-A SHOWING REMOVAL
OF EXISTING END PORTAL



PART SECTION B-B SHOWING REMOVAL
OF EXISTING END PORTAL



PART SECTION A-A SHOWING TOP SIDE
OF NEW END PORTAL



PART SECTION B-B SHOWING BOTTOM SIDE
OF NEW END PORTAL

Notes:

- ① Remove rivet & replace with new $\frac{3}{4}" \varnothing$ H.S. bolt.
- ② Stay \bar{r} @ Jt. U1/U1' may be installed after installation of end portal between existing connection plates.

For Details A, B & C, see Sheet No. 6.

For location of Part Sections A-A & B-B, see Sheet No. 6.

* Cut Line for bottom Conn. $\frac{1}{2}$ " from inside edge of end post)
(grind cut edge smooth).

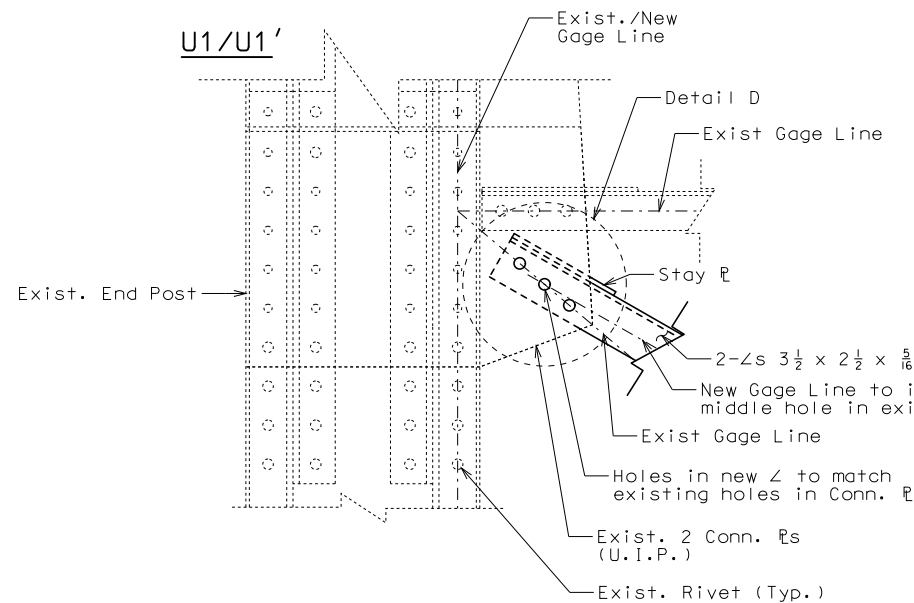
STATE OF MISSOURI
DANIEL M. SMITH
NUMBER
PE-28985
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

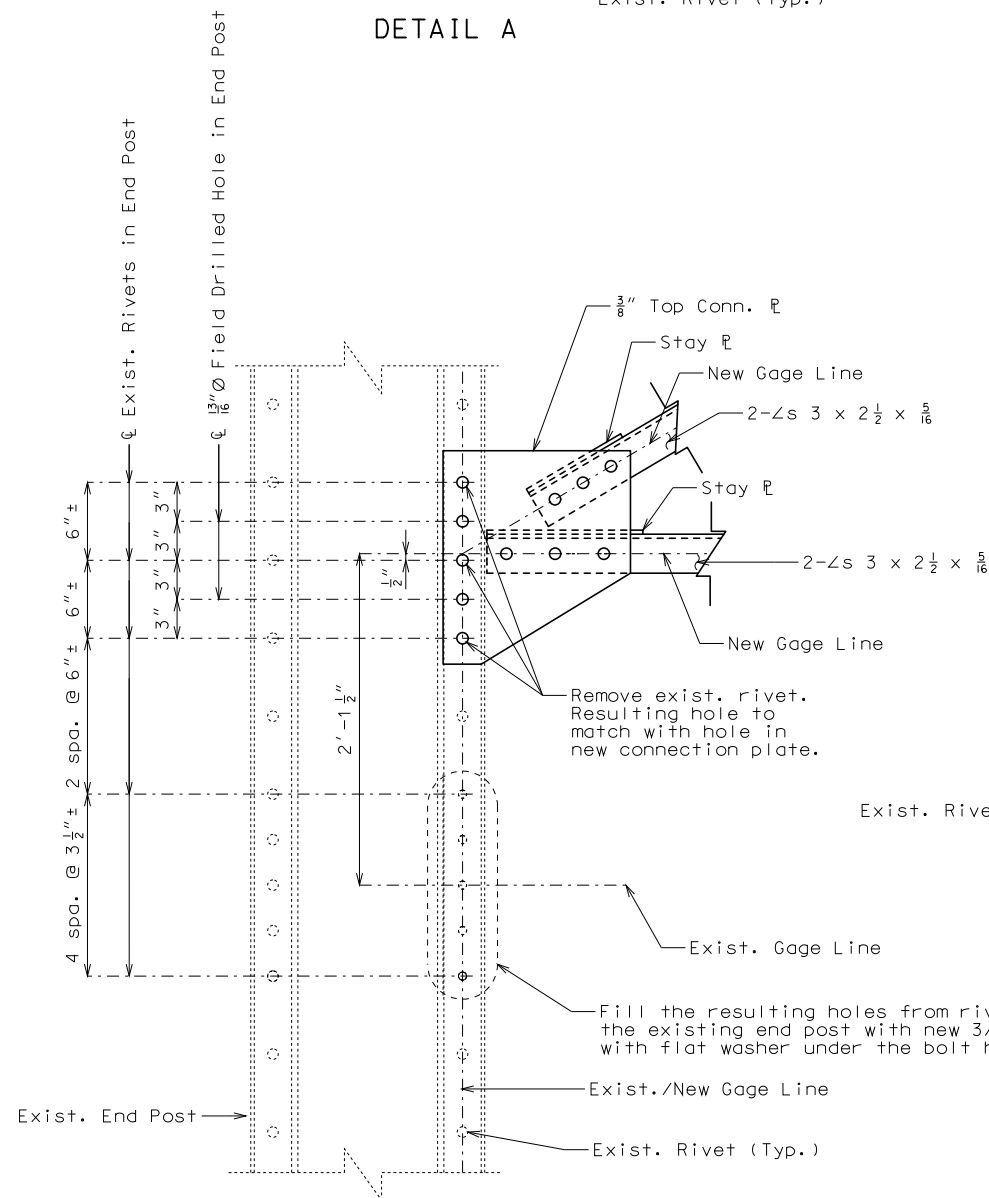
DATE PREPARED 9/3/2015	
ROUTE 160	STATE MO
DISTRICT BR	SHEET NO. 5
COUNTY OZARK	
JOB NO. J9P3024	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. K08172	

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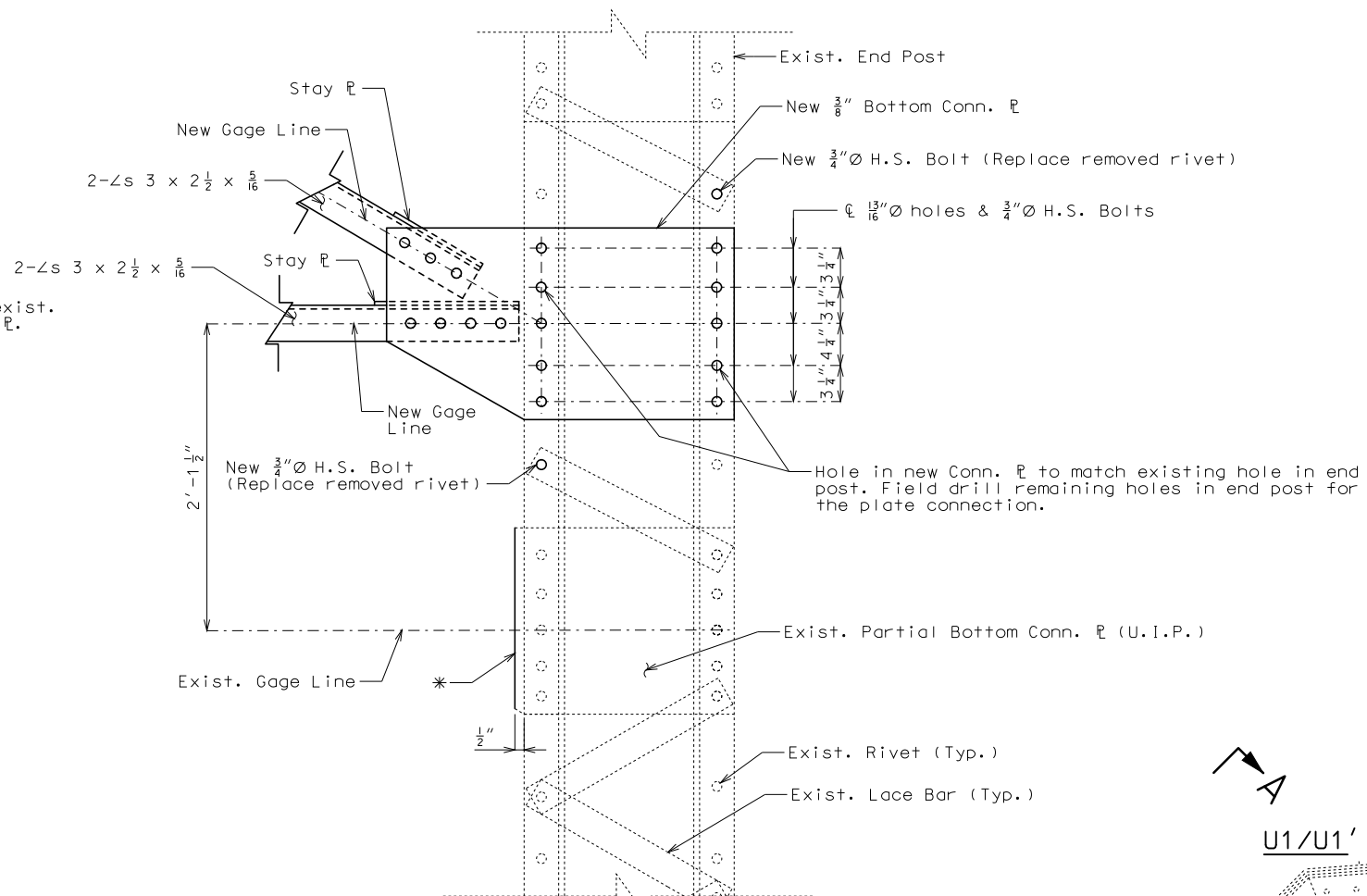
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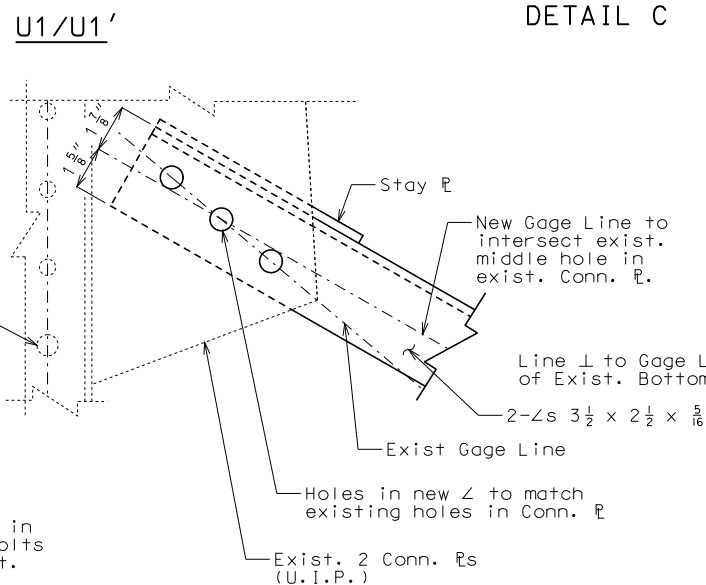
DETAIL A



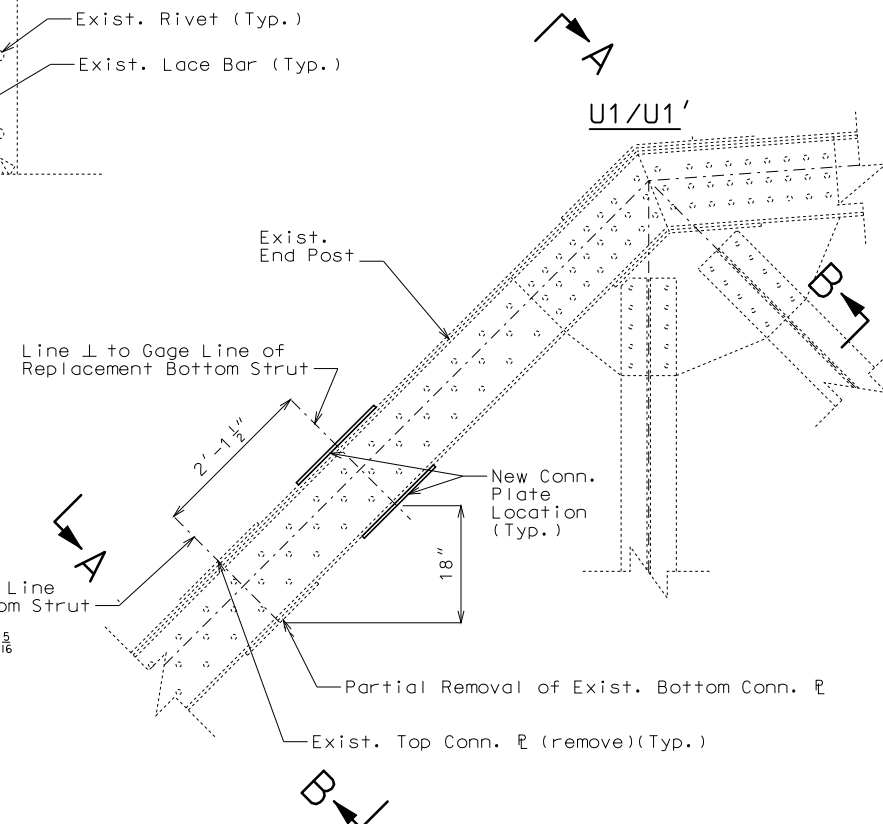
DETAIL B



DETAIL C



DETAIL D



PART ELEVATION OF END POST AT PORTAL LOCATION

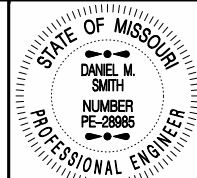
DETAILS OF END PORTAL @ U1 & U1'

Detailed Apr. 2015
Checked June 2015

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

Sheet No. 6 of 7

Notes:
For location of Details A, B & C, see Sheet No. 5.
For Part Sections A-A & B-B, see Sheet No. 5.
* Cut line for bottom Conn. Pl (1/2" from inside edge of end post) (grind cut edge smooth).



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
9/3/2015

ROUTE 160 STATE MO

DISTRICT BR SHEET NO. 6

COUNTY OZARK

JOB NO. J9P3024

CONTRACT ID.

PROJECT NO.

BRIDGE NO. K08172

DESCRIPTION

DATE

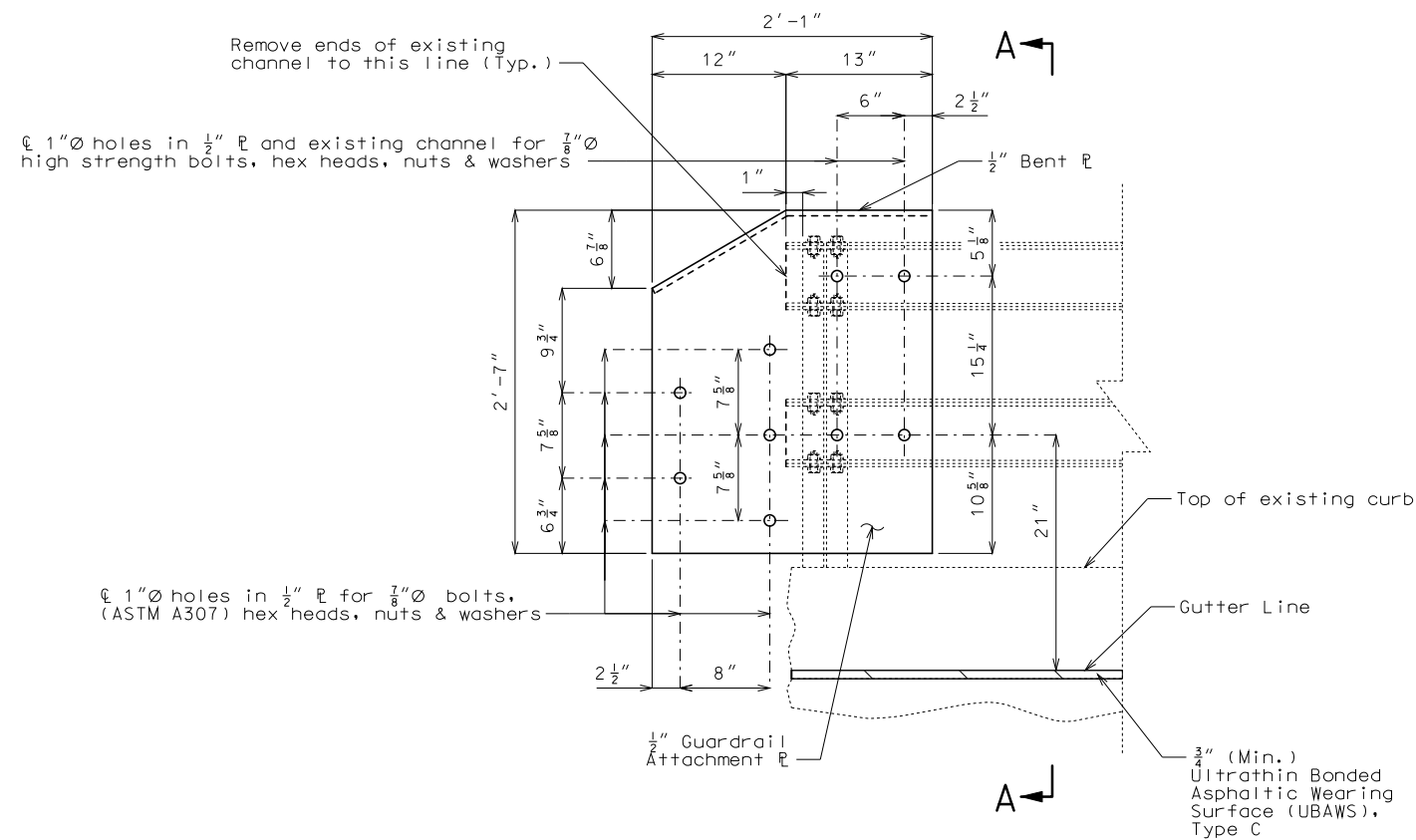
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



PART ELEVATION
OF GUARDRAIL ATTACHMENT

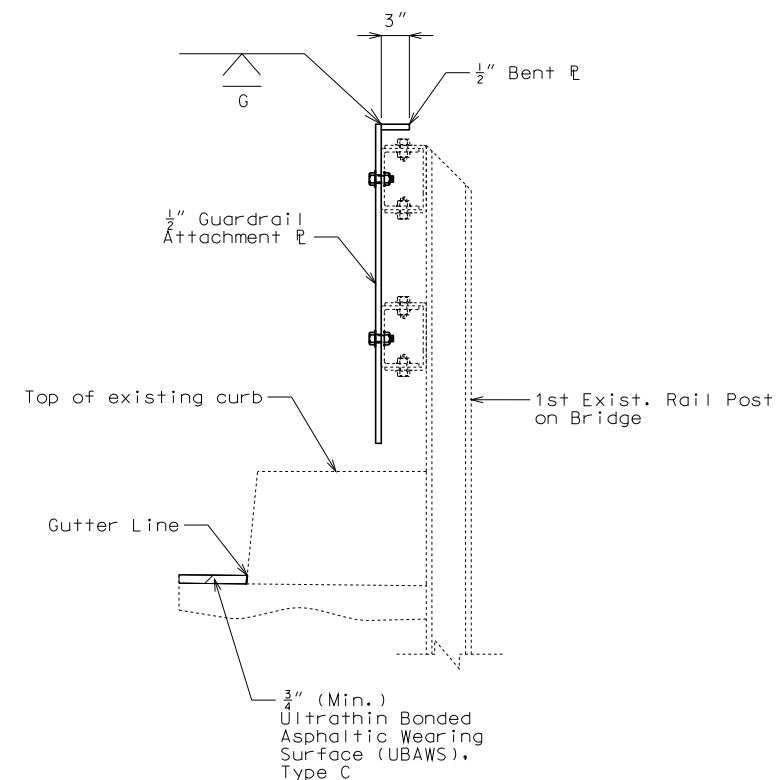
End of left rail near End Bent No. 1 shown. Left rail near End Bent No. 11 opposite. End of right rail at End Bent No. 1 similar. No guardrail attachment required for right rail near End Bent No. 11.

Notes:

No direct payment will be made for furnishing and installing guardrail attachment plate.

All plates shall be ASTM A709 Grade 50 and galvanized.

All bolts, nuts and washers shall be galvanized.



SECTION A-A

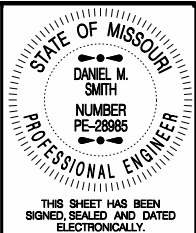
GUARDRAIL ATTACHMENT DETAILS AT END BENTS

(No. Req'd = 3)

Detailed Sep. 2015
Checked Sep. 2015

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

Sheet No. 7 of 7



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
9/3/2015

ROUTE 160 STATE MO
DISTRICT BR SHEET NO. 7

COUNTY
OZARK

JOB NO.
J9P3024

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
K08172

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

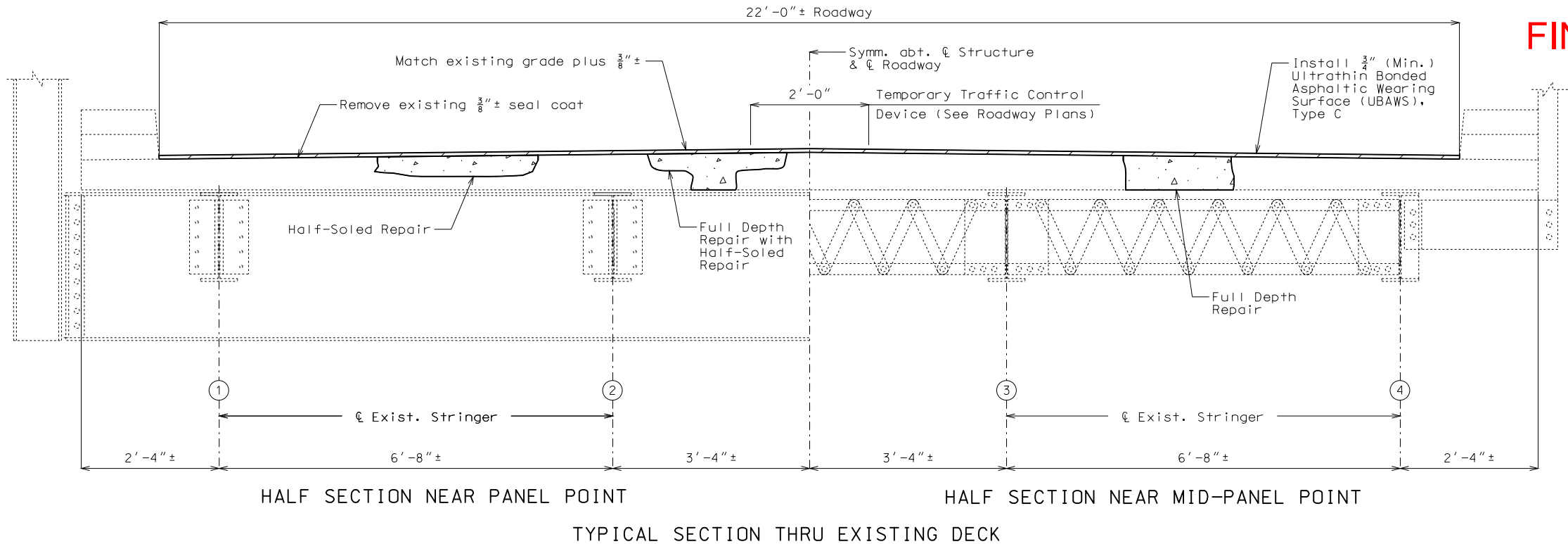
MoDOT

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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

U.I.P. AND REHABILITATE EXISTING 10 @ (180') SIMPLE THRU TRUSS SPANS

SEC/SUR 19 TWP 22N RGE 15W



FINAL PLANS

GENERAL NOTES:

- Design Specifications:**
- 2002 AASHTO LFD (17th Ed.) Standard Specifications
Bridge Deck Rating = 6
- Design Unit Stresses:**
- Structural Low Alloy Steel (ASTM A709 Grade 50) $f_y = 50,000$ psi
- Concrete Protective Coatings:**
- Protective coating for concrete bents and piers (Epoxy) shall be applied as shown on the bridge plans and in accordance with Sec 711.
- Miscellaneous:**
- Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.
- Contractor shall verify all dimensions in field before ordering new material.
- High strength bolts, nuts and washers will be sampled for quality assurance as specified in Sec 106.
- Fabricated structural steel shall be ASTM A709 Grade 50, except as noted.
- Field connections shall be made with $\frac{3}{4}$ " diameter high strength bolts and $\frac{13}{16}$ " diameter holes, except as noted.
- Shop-drilled holes in new steel and existing holes in existing steel may be used as a template for field drilling new holes at connection joints with the installation of replacement end portals and sway frames.
- Removal and replacement of the end portals and sway frames, as shown in the plans, and any incidental work, complete in place, will be considered completely covered by the contract lump sum price for "Remove and Replace Portals and Sway Frames".
- All removed rivets in rehab structure shall be replaced with high strength bolts with flat washer under bolt head and nut (See Special Provisions).
- Roadway surfacing adjacent to the bridge ends shall match new bridge wearing surface (Roadway Item).

- Traffic Handling:**
- Traffic to be maintained on structure during construction except structure to be closed during heat straightening and removal and replacement of portals and sway frames. See roadway plans for traffic control.

Final Estimated Quantities		
Item		Total
Removal of Seal Coat	sq. foot	39,981
Ultrathin Bonded Wearing Surface, Type C	sq. yard	4,686
Substructure Repair (Unformed)	sq. foot	23
Repairing Concrete Deck (Half-Soling)	sq. foot	10,083
Full Depth Repair	sq. foot	29
Clean and Epoxy Seal	sq. foot	8,954
Protective Coating-Concrete Bents and Piers (Epoxy)	lump sum	1
Surface Preparation for Recoating Structural Steel	lump sum	1
Field Application of Inorganic Zinc Primer	lump sum	1
Intermediate Field Coat (System G)	lump sum	1
Finish Field Coat (System G)	lump sum	1
Remove and Replace Portals and Sway Frames	lump sum	1
Heat Straightening	lump sum	1
Misc. Structural Steel Construction	lump sum	1

The State estimates there is approximately 98,000 pounds of new steel in the pay item "Remove and Replace Portals and Sway Frames" and that weight is used in preparing the cost estimate for the pay item. Variation may be encountered in the estimated weight but the variation cannot be used for an adjustment in the contract lump sum price.

- Structural Steel Protective Coatings:**
- Protective Coating: System G in accordance with Sec 1081.
- Coating Limits: All existing structural steel of the truss bridge, including curb rails.
- Surface Preparation: Surface preparation of the existing steel shall be in accordance with Sec 1081 for "Recoating of Structural Steel (System G, H or I)". The cost of surface preparation will be considered completely covered by the contract lump sum price for "Surface Preparation for Recoating Structural Steel".
- Prime Coat (Exist. Steel): The cost of the prime coat for existing steel will be considered completely covered by the contract lump sum price for "Field Application of Inorganic Zinc Primer". Tint of the prime coat for System G shall be similar to the color of the field coat to be used.
- Prime Coat (New Steel): The cost of the prime coat for new steel will be considered completely covered by the contract lump sum price for "Remove and Replace Portals and Sway Frames". Tint of the prime coat for System G shall be similar to the color of the field coat to be used.
- At the option of the contractor, the intermediate field coat and finish field coat may be applied in the shop. The contractor shall exercise extreme care during all phases of loading, hauling, handling and erection to minimize damage and shall be fully responsible for all repairs and cleaning of the coating systems as required by the engineer.
- Field Coats: The color of the field coats shall be Brown (Federal Standard #30045). The cost of the intermediate field coat will be considered completely covered by the contract lump sum price for "Intermediate Field Coat (System G)". The cost of the finish field coat will be considered completely covered by the contract lump sum price for "Finish Field Coat (System G)".
- The surfaces of existing steel that will become faying surfaces for new connections of replacement end portals and sway frames shall be cleaned according to the manufacturer's recommendation and with a minimum of SSPC-SP-3 surface preparation and coated with one prime coat of Gray Epoxy-Mastic Primer (non-aluminum) in accordance with Sec 1081.
- For the duration of cleaning and recoating the truss spans, the truss span superstructure in any span shall not be draped with an impermeable surface subject to wind loads for a length any longer than 1/4 the span length at any one time regardless of height of coverage. Simultaneous work in adjacent spans is permissible using the specified limits in each span.

REPAIRS TO BRIDGE: ROUTE 160 OVER BULL SHOALS LAKE
ROUTE 160 FROM ROUTE 5 TO ROUTE 95
ABOUT 2.9 MILES EAST OF ROUTE 95
BEGINNING STATION 375+98.00± (Match Existing)

Detailed Apr. 2015
Checked June 2015

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

Sheet No. 1 of 7

STD. 616.10

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DATE PREPARED
9/3/2015

ROUTE 160 STATE MO
DISTRICT BR SHEET NO. 1

COUNTY
OZARK

JOB NO.
J9P3024

CONTRACT ID.
151120-H01

PROJECT NO.
FAF-160-3(16)

BRIDGE NO.
K08172

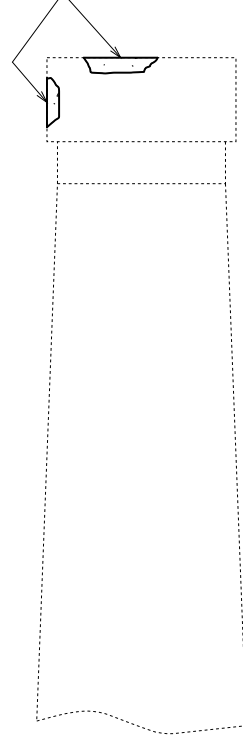
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

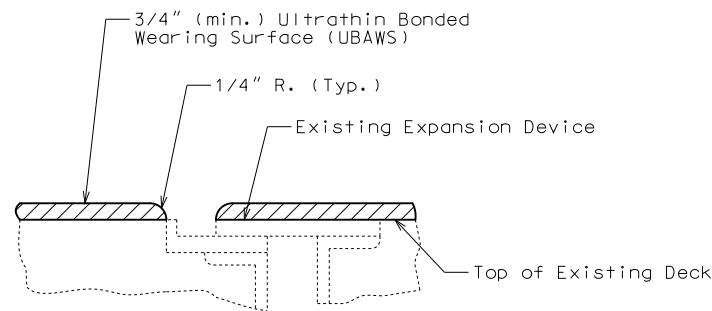
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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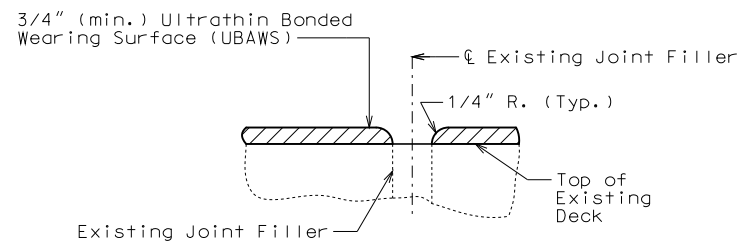
Substructure Repair
(Unformed) (See Sec 704)



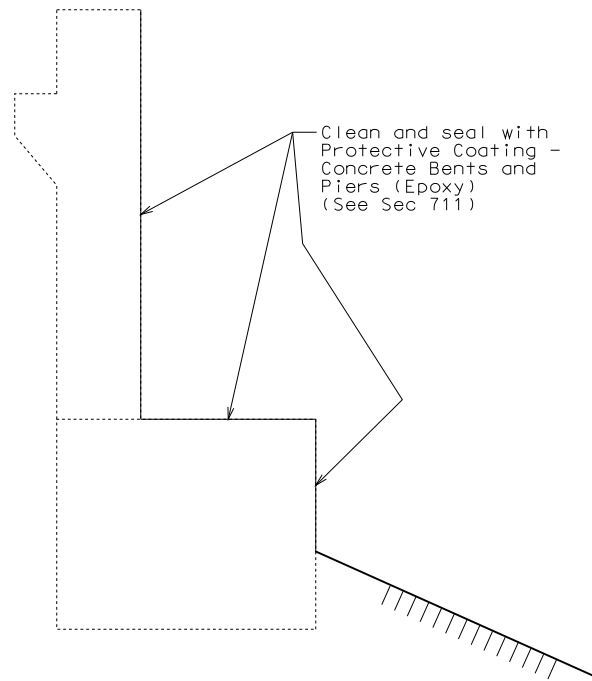
PART ELEVATION OF PIERS NO. 2 & 5
SHOWING SUBSTRUCTURE REPAIR (UNFORMED)



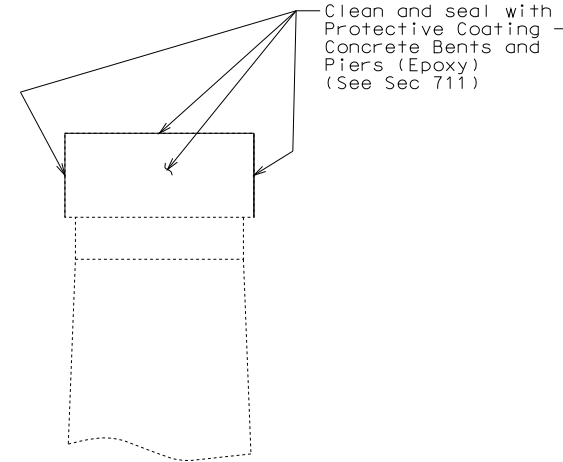
SECTION THRU JOINT
AT END BENT NO. 1 AND
PIERS NO. 2 THRU 10



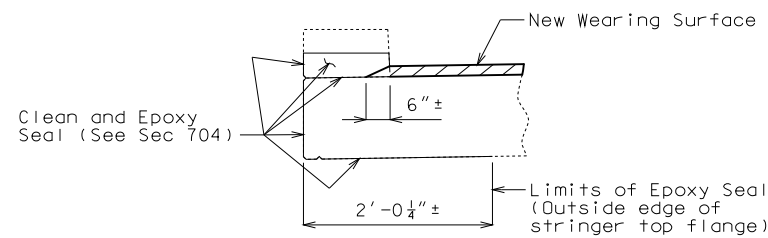
SECTION THRU JOINT
AT END BENT NO. 11



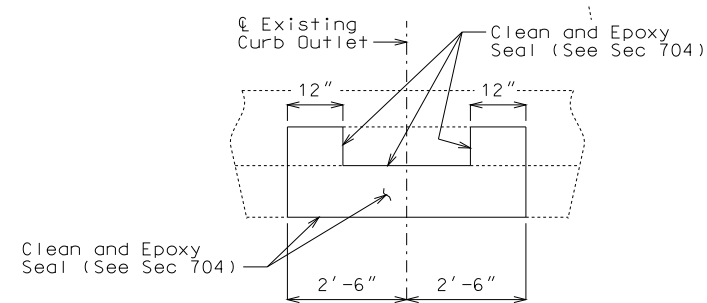
TYPICAL SECTION THRU
END BENTS NO. 1 & 11 SHOWING
PROTECTIVE COATING



PART ELEVATION OF
PIERS NO. 2 THRU 10
SHOWING PROTECTIVE COATING



TYPICAL SECTION OF EXISTING CURB
OUTLET SHOWING LIMITS OF EPOXY SEAL

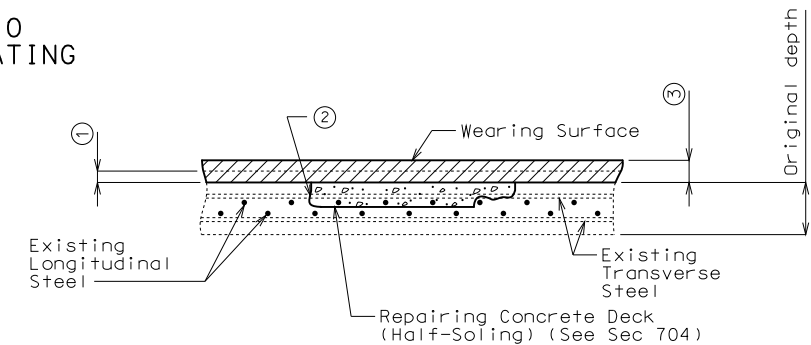


TYPICAL ELEVATION OF EXISTING CURB
OUTLET SHOWING LIMITS OF EPOXY SEAL

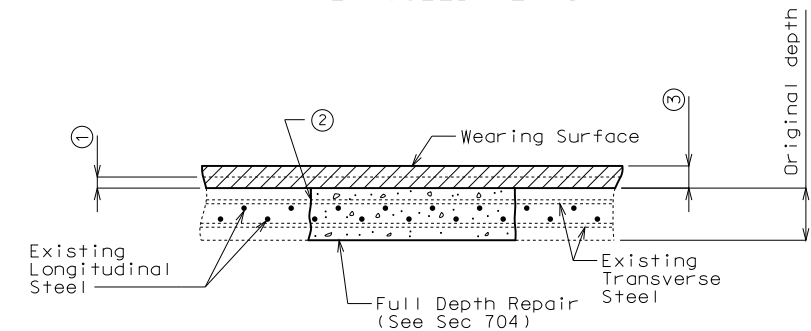
(Wearing surface not shown for clarity)

Note:
All reinforcing steel in slab that is loose and exposed shall be removed as directed by the engineer. Removal of reinforcing steel and loose concrete will be considered completely covered by the contract unit price for Clean and Epoxy Seal.

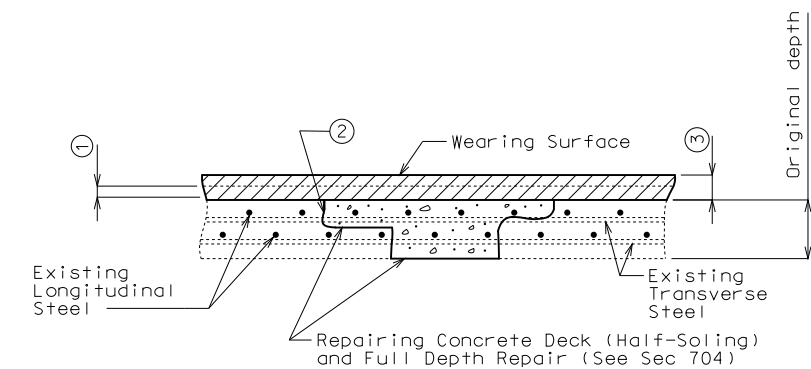
FINAL PLANS



HALF-SOLED REPAIR



FULL DEPTH REPAIR



FULL DEPTH REPAIR
WITH HALF-SOLED REPAIR

- ① Remove existing seal coat.
- ② One inch vertical side shall be established outside the deteriorated area. See Sec 704.
- ③ 3/4" (min.) Ultrathin Bonded Asphaltic Wearing Surface (UBAWS), Type C.

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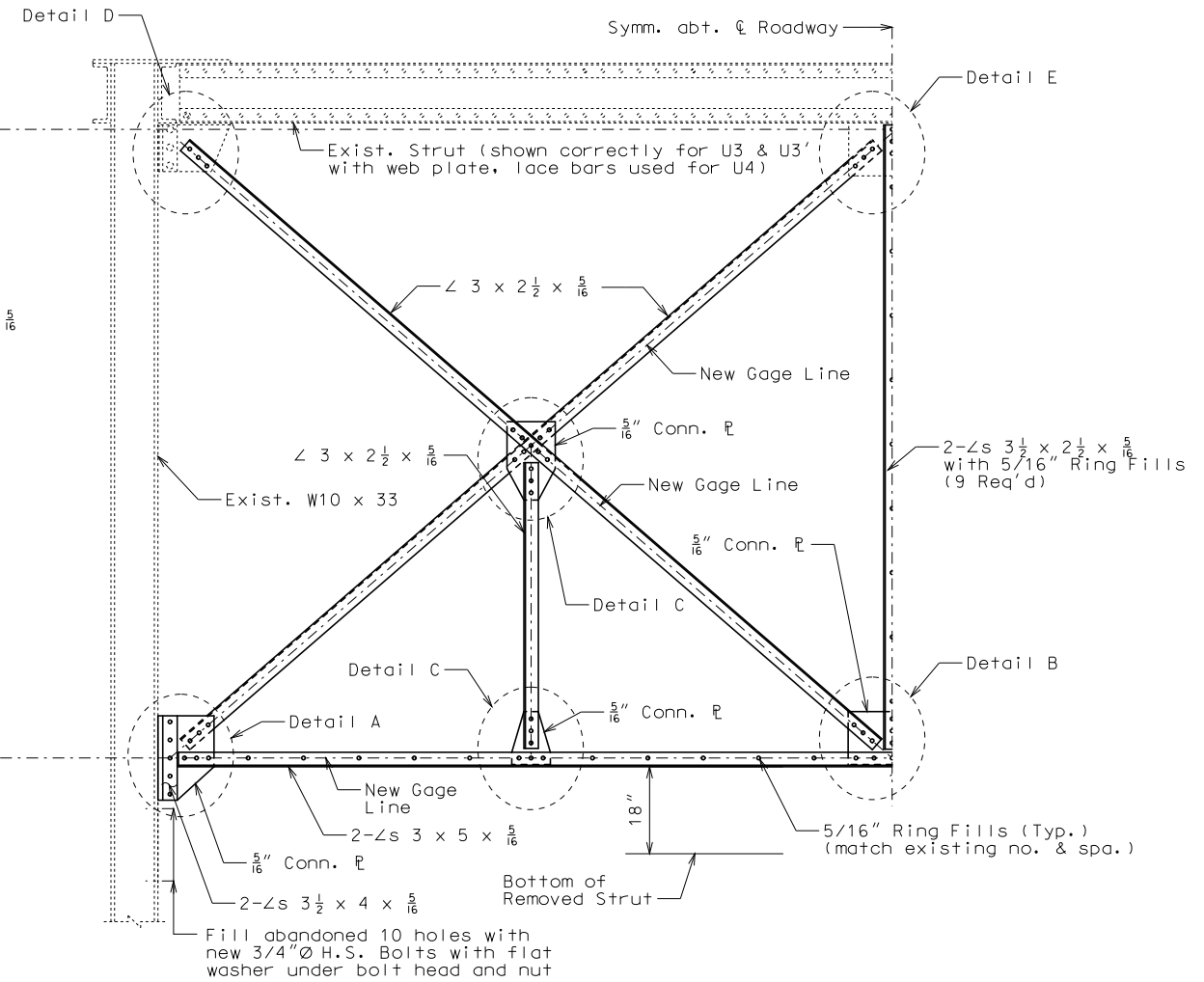
DATE PREPARED 9/3/2015	
ROUTE 160	STATE MO
DISTRICT BR	SHEET NO. 2
COUNTY OZARK	
JOB NO. J9P3024	
CONTRACT ID. 151120-H01	
PROJECT NO. FAF-160-3(16)	
BRIDGE NO. K08172	

DESCRIPTION	DATE

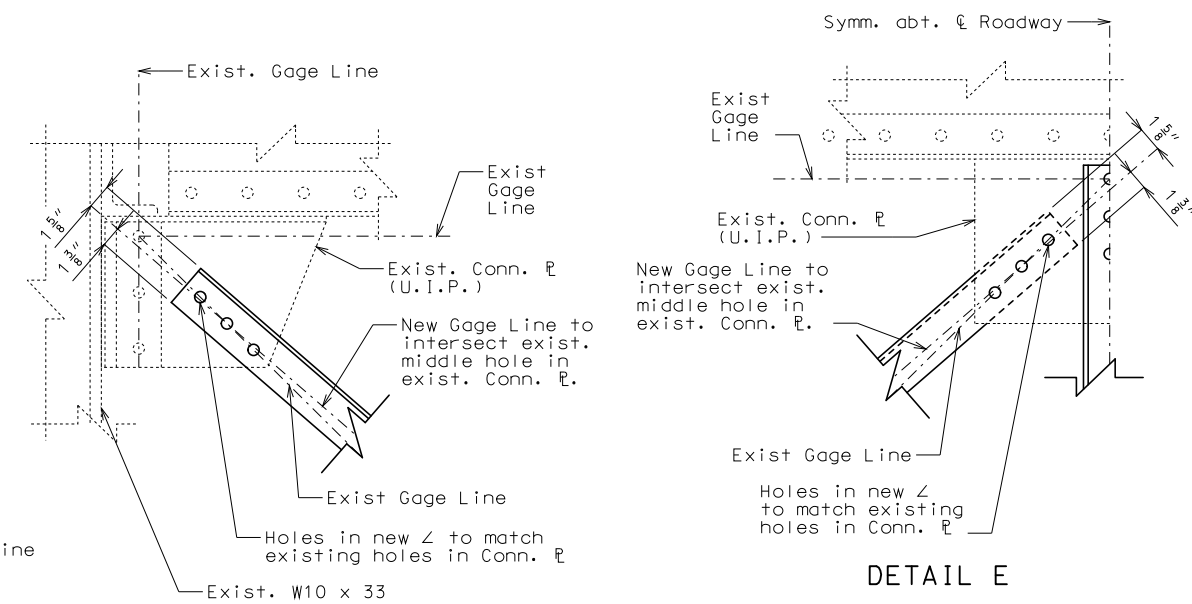
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	105 WEST CAPITAL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)
--	--



FINAL PLANS



PART ELEVATION SHOWING NEW SWAY FRAME

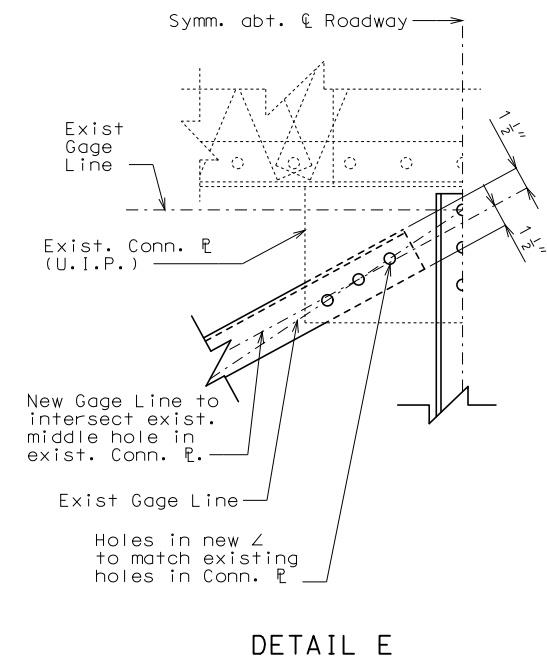


DETAIL D

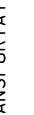
Sheet No. 3 of 7

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

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DATE PREPARED	
9/3/2015	
ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
BR	4
COUNTY	
OZARK	
JOB NO.	
J9P3024	
CONTRACT ID.	
151120-H01	
PROJECT NO.	
FAF-160-3(16)	
BRIDGE NO.	
K08172	

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COMMISSION

105 WEST CAPITOL
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1-888-ASK-MODOT (1-888-275-6836)

Detailed Apr. 2015
Checked June 2015

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

Sheet No. 4 of 7

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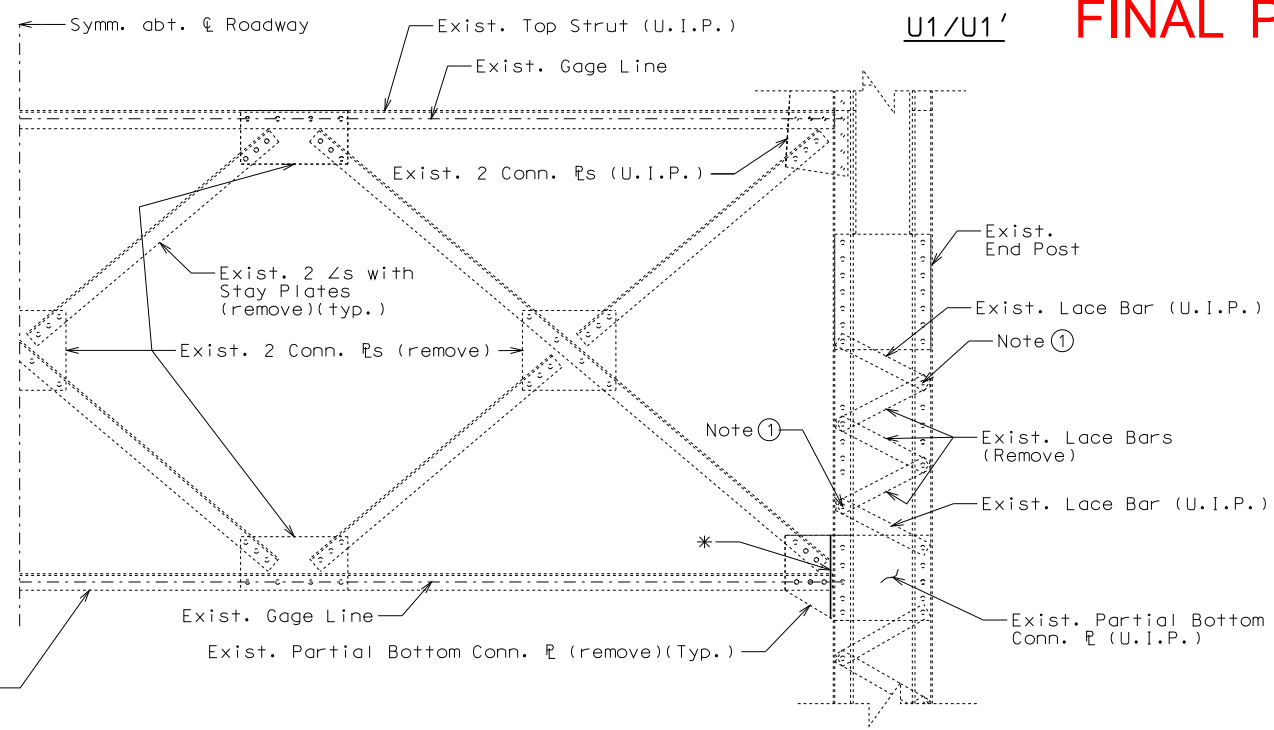
$$\underline{U1/U1'}$$

DATE PREPARED	
9/3/2015	
ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
BR	5
COUNTY	
OZARK	
JOB NO.	
J9P3024	
CONTRACT ID.	
151120-H01	
PROJECT NO.	
FAF-160-3(16)	
BRIDGE NO.	
K08172	

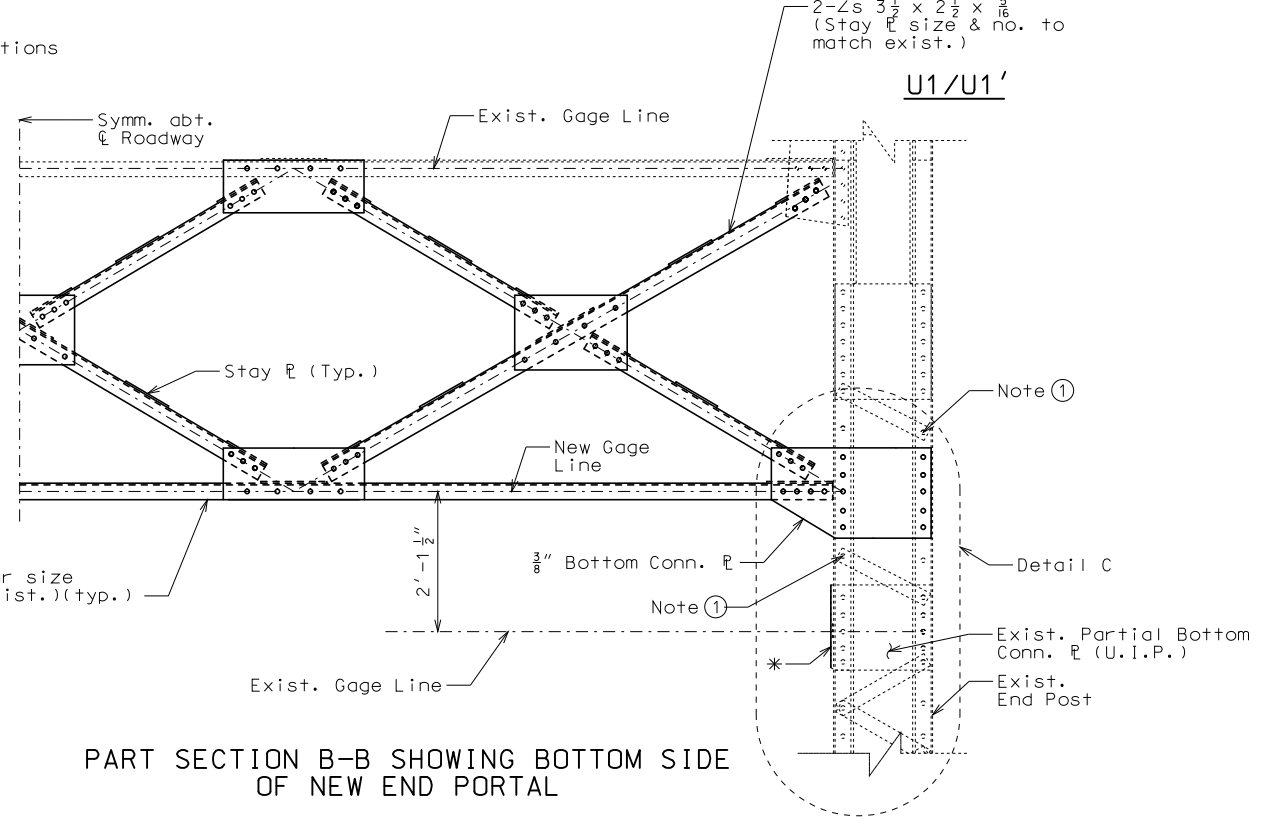


MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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



PART SECTION B-B SHOWING REMOVAL
OF EXISTING END PORTAL



PART SECTION B-B SHOWING BOTTOM SIDE
OF NEW END PORTAL

DETAILS OF END PORTAL @ U1 & U1'

(20 Removals & Replacements Required)

FINAL PLANS

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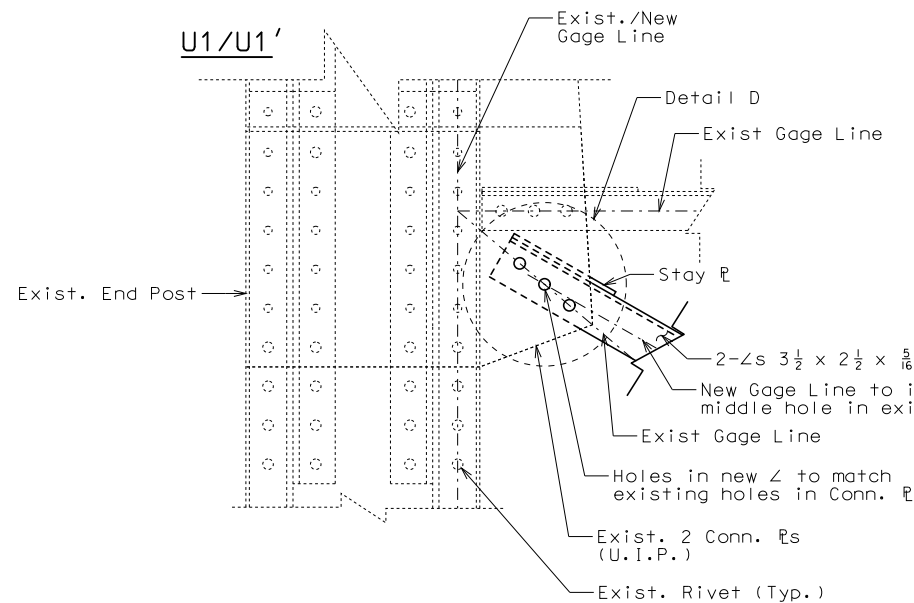
DATE PREPARED 9/3/2015	
ROUTE 160	STATE MO
DISTRICT BR	SHEET NO. 6
COUNTY OZARK	
JOB NO. J9P3024	
CONTRACT ID. 151120-H01	
PROJECT NO. FAF-160-3(16)	
BRIDGE NO. K08172	

DATE	DESCRIPTION

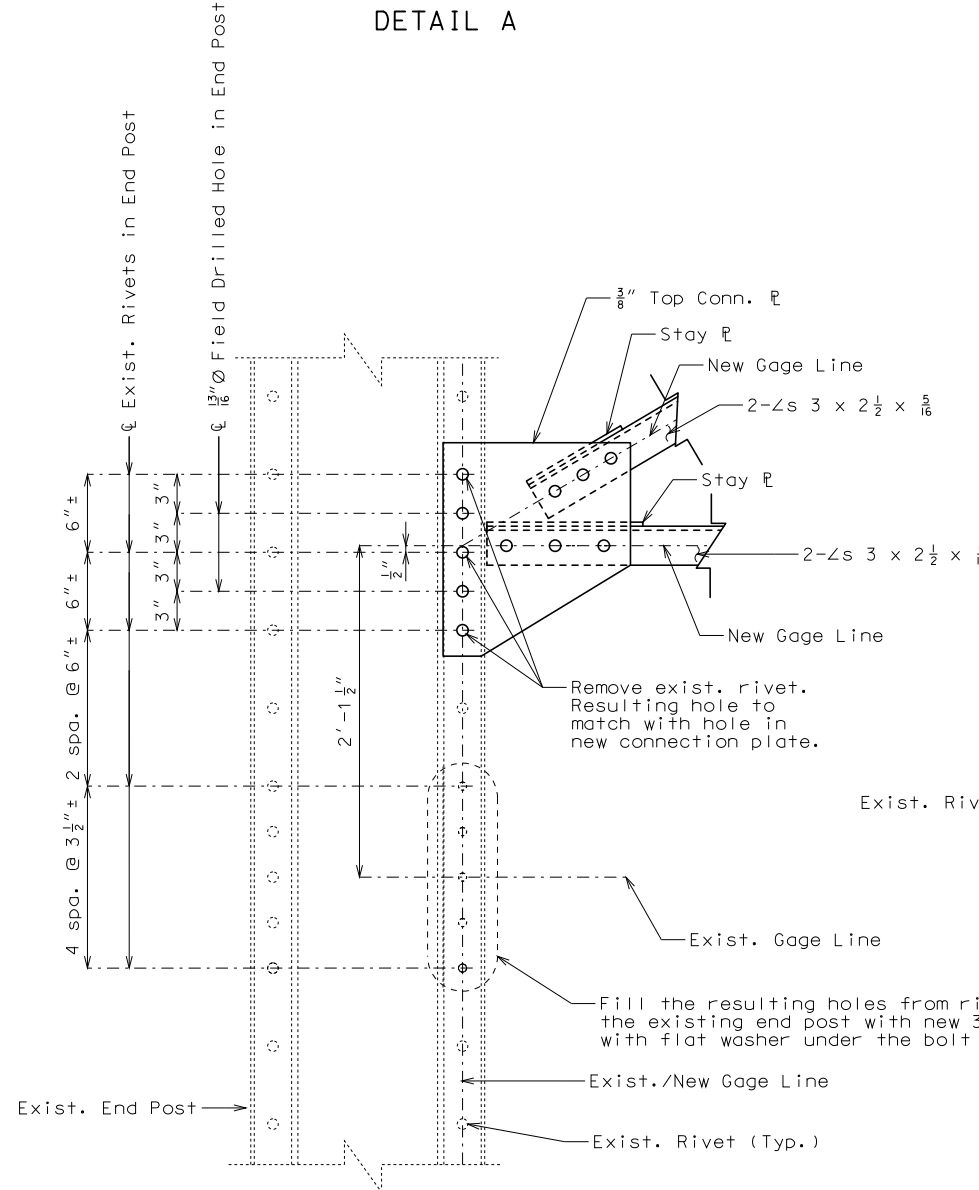
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

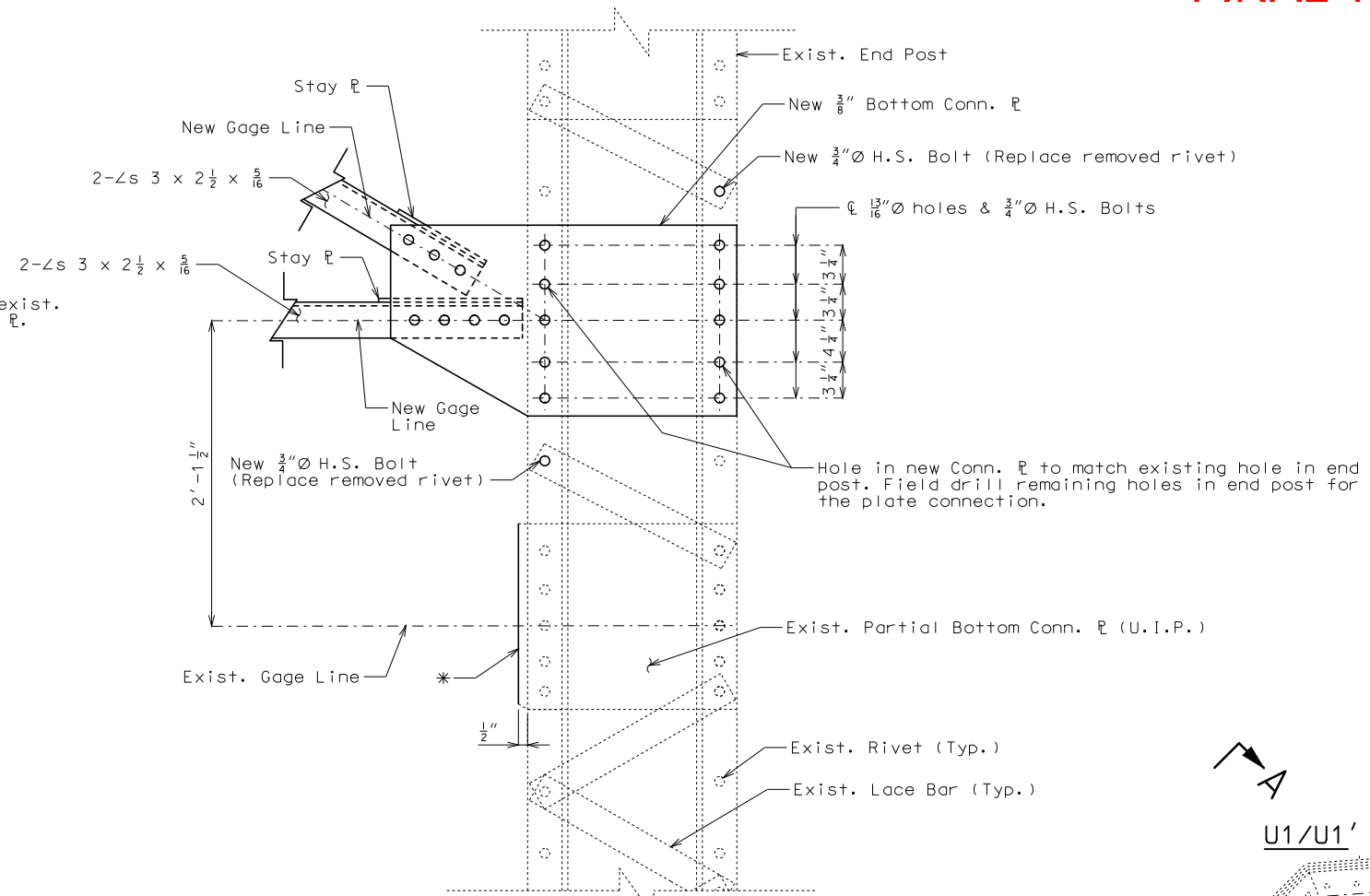
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



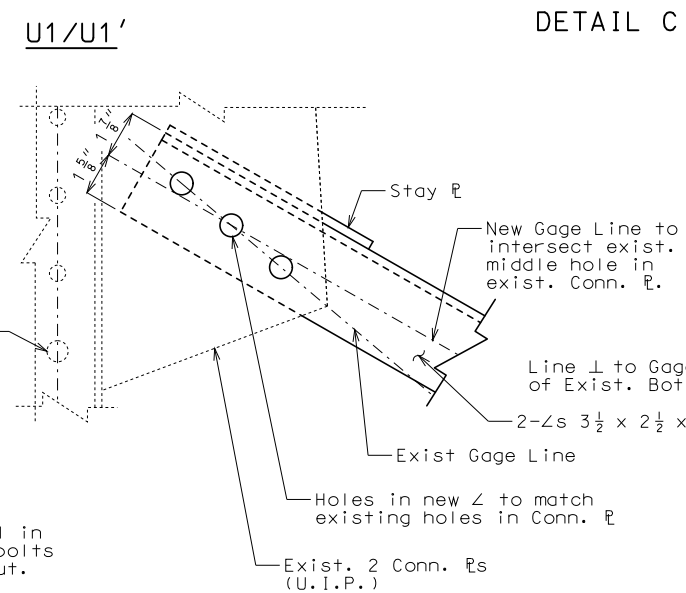
DETAIL A



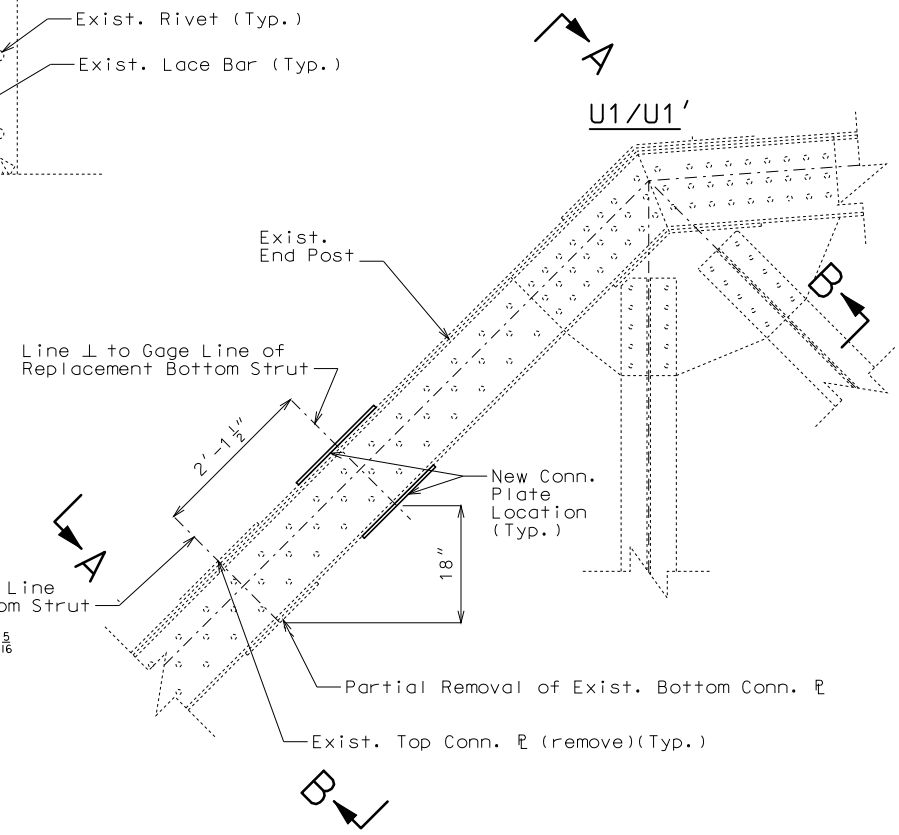
DETAIL B



DETAIL C



DETAIL D



PART ELEVATION OF END POST AT PORTAL LOCATION

Notes:

For location of Details A, B & C, see Sheet No. 5.

For Part Sections A-A & B-B, see Sheet No. 5.

* Cut line for bottom Conn. P (1/2" from inside edge of end post) (grind cut edge smooth).

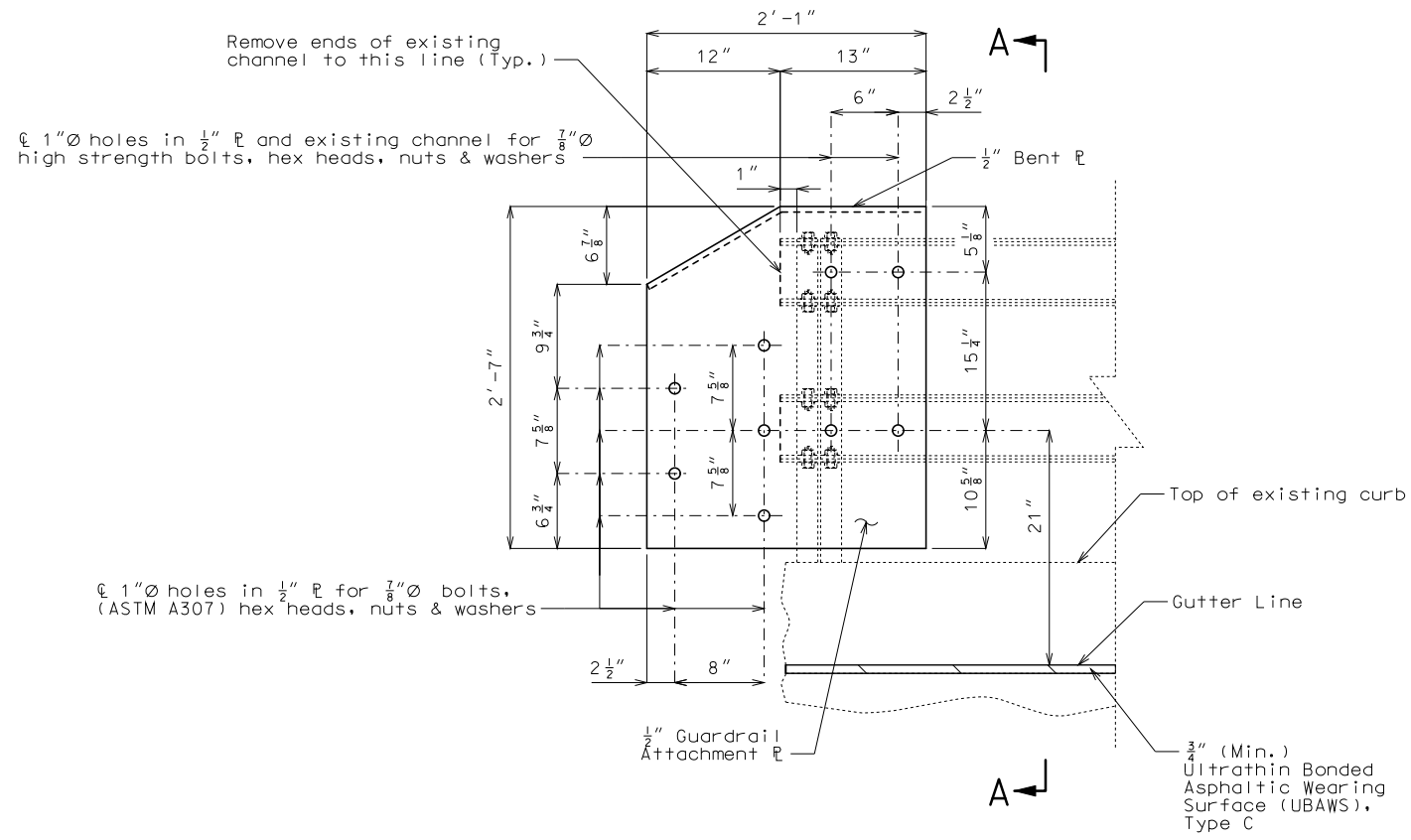
DETAILS OF END PORTAL @ U1 & U1'

Detailed Apr. 2015
Checked June 2015

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

Sheet No. 6 of 7

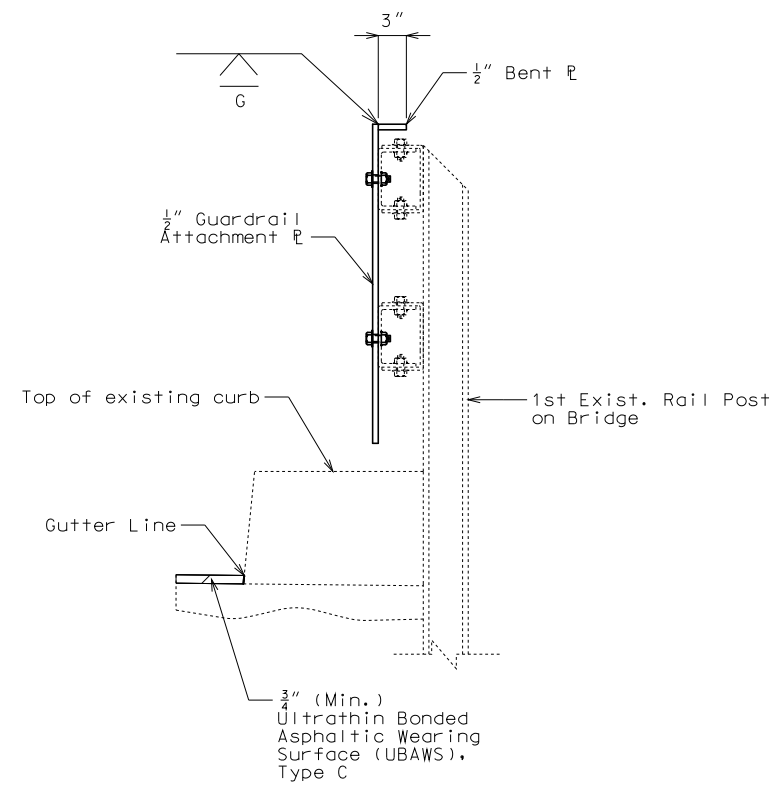
FINAL PLANS



PART ELEVATION OF GUARDRAIL ATTACHMENT

End of left rail near End Bent No. 1 shown. Left rail near End Bent No. 11 opposite. End of right rail at End Bent No. 1 similar. No guardrail attachment required for right rail near End Bent No. 11.

- Notes:
- No direct payment will be made for furnishing and installing guardrail attachment plate.
 - All plates shall be ASTM A709 Grade 50 and galvanized.
 - All bolts, nuts and washers shall be galvanized.



SECTION A-A

GUARDRAIL ATTACHMENT DETAILS AT END BENTS

(No. Req'd = 3)

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DATE PREPARED 9/3/2015	
ROUTE 160	STATE MO
DISTRICT BR	SHEET NO. 7
COUNTY OZARK	
JOB NO. J9P3024	
CONTRACT ID. 151120-H01	
PROJECT NO. FAF-160-3(16)	
BRIDGE NO. K08172	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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