

September 09, 2022 7:30:02AM

COUNTY: HOLT DISTRICT: NW CLASS: STATBR FED-ID: 7272 BRIDGE: N0811

GENERAL STRUCTURE INFORMATION ***BRIDGE INSPECTION INFORMATION*** **ROUTE: RTTE** # **SPANS**: 3 PLACE CODE: 41798 LEWIS **DATE:** 11/09/2021 **RESPONSIBILITY: DISTRICT** LANES ON: 2 FEATURE: MILL CR LENGTH: 174 FT 0 IN FREQUENCY: 24 **CALCULATED INTERVAL**: 24** LANES UNDER: 0 STATUS: A-OPEN MAXIMUM SPAN: 70 FT 0 IN **TEAM LEADER: SCOTT STEPHENS ELEMENT: NO LOG MILE: 2.296 COMPASS DIRECTION: NORTH to SOUTH** APPROACH ROADWAY: 20 FT 0 IN **INSPECTOR 2: INSPECTOR 4: DETOUR: 20.00 MILES DIRECTION OF TRAFFIC: 2-WAY TRAF** CURB TO CURB: 20 FT 0 IN **INSPECTOR 3:** OUT TO OUT: 22 FT 4 IN NHS: NO FUNCTIONAL CLASS: RL-MAJOR COLLECTOR ** When calculated interval exceeds the frequency, a justification comment per BIRM is required. **BUILT:** 1962 **NBI OWNER: MODOT AADT:** 102 **GENERAL INSPECTION COMMENTS** REHAB: **NBI MAINTAINED: MODOT AADT YEAR: 2021** MAINTENANCE DISTRICT: NW LOCATION: S 4 T 59 R 38 W **AADT TRUCK: 9.8% LATITUDE:** 39 57 12.33 (DMS) MAINTENANCE COUNTY: HOLT **FUTURE AADT: 133 LONGITUDE:** 95 10 4.35 (DMS) SUB AREA: 7A20 **FUTURE AADT YEAR: 2041** ***INDEPTH INSPECTION INFORMATION*** ***FRACTURE CRITICAL INSPECTION INFORMATION*** DATE: RESPONSIBILITY: **CATEGORY: CATEGORY:** DATE: **RESPONSIBILITY: FREQUENCY: CALCULATED INTERVAL**: NBI**: **FREQUENCY: CALCULATED INTERVAL**: NBI**: **TEAM LEADER: INSPECTOR 3: METHOD: TEAM LEADER: INSPECTOR 3: METHOD: INSPECTOR 2: 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:** 11/09/2021 **CATEGORY: DECK DATE:** 11/09/2021 **CATEGORY: DRY RESPONSIBILITY: DISTRICT RESPONSIBILITY: DISTRICT** FREOUENCY: 60 NBI: NO FREOUENCY: 12 CALCULATED INTERVAL**: 11 **NBI:** NO CALCULATED INTERVAL**: 24 **TEAM LEADER: SCOTT STEPHENS** TEAM LEADER: SCOTT STEPHENS **INSPECTOR 3: METHOD:** VISUAL **INSPECTOR 3: METHOD:** VISUAL **INSPECTOR 2: 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. SPECIAL INSPECTION COMMENTS **UNDERWATER INSPECTION COMMENTS** OTHER SPECIAL INSPECTIONS OTHER UNDERWATER INSPECTIONS DATE **FREQUENCY CATEGORY** CALCULATED INTERVAL RESPONSIBILITY **METHOD** DATE **FREQUENCY CATEGORY** NBI CALCULATED INTERVAL RESPONSIBILITY **METHOD** NO WT TAPE 06/30/2014 CHANNEL CROSS DISTRICT 120 **SECTIONS**

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FED-ID: 7272

CLASS: STATBR COUNTY: HOLT DISTRICT: NW BRIDGE: N0811 ***STRUCTURE POSTING*** APPROVED CATEGORY: S-1 NO POSTING REQUIRED **Ton 1: Ton 2: Ton 3: COMMENTS:** NO POSTING REQUIRED FIELD CATEGORY: S-1 **PROBLEM:** PROBLEM DIRECTION: **Ton 1: Ton 2: Ton 3: COMMENTS:** ***GENERAL COMMENTS/MAJOR RATED ITEMS*** GENERAL COMMENTS: (BOWDEJ1, 12/31/2009)--(51'-70'-51') CONT WF GDR SPANS [ITEM 58] DECK: 3-SERIOUS CONDITION COMMENTS: (STEPHS2, 11/29/2016)--60% DELAMS TOP DECK AND SATURATION **RATING:** 12/29/2010 [ITEM 59] SUPER: 6-SATISFACTORY CONDITION COMMENTS: (STEPHS2, 01/09/2018)--RUST ON GIRDERS **RATING:** 01/09/2018 [ITEM 60] SUB: 6-SATISFACTORY CONDITION COMMENTS: (STEPHS2, 11/18/2013)--UNDERMINING AT BENT 3 **RATING:** 11/18/2013 [ITEM 61] BANK/CHANNEL: 6-WIDESPREAD MINOR DAMAGE COMMENTS: (BOWDEJ1, 04/09/2004)--BOTH BANKS ERODING **RATING:** 05/18/2001 [ITEM 113] SCOUR: 8-STABLE FOR CALCULATED **COMMENTS: RATING:** 05/18/2001 **EVALUATION TYPE:** [ITEM 71] WATERWAY ADEQUACY: DECK ABOVE FLOOD ELEV **COMMENTS: RATING:** 05/18/2001 **COMMENTS:** [ITEM 72] APPRRDWY ALIGNMENT: 8-VERYGOOD **RATING:** 05/18/2001 ***RAILING AND APPROACH PAVEMENT COMPONENTS AND RATINGS*** [ITEM 36A] BRIDGE RAILING RATING: DOESNT MEET CURRNT STND-0 **RATING:** 01/05/2007 **COMMENTS: DIRECTION MATERIAL CONSTRUCTION COMMENTS** REINFORCED CONCRETE **CURB BOTH** STEEL **BOTH** CHANNEL-12" [ITEM 36B] TRANSITION RAILING RATING: NOT PROVIDED-0 **COMMENTS: RATING:** 05/18/2001 [ITEM 36C] APPROACH RAILING RATING: NOT PROVIDED-0 **RATING:** 05/18/2001 **COMMENTS:** [ITEM 36D] RAIL END TREATMENT RATING: NOT PROVIDED-0 **RATING:** 05/18/2001 **COMMENTS:**

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COUNTY: HOLT DISTRICT: NW CLASS: STATBR FED-ID: 7272 BRIDGE: N0811

APPROACH PAVEMENT: *Overall condition assigned for each approach pavemenet component is shown below. **MATERIAL CONSTRUCTION DIRECTION CONDITION* COMMENTS ASPHALT BITUMINOUS MAT BOTH FAIR** ***DRAINAGE, EXPANSION DEVICES, BANK/SLOPE, AND DECK PROTECTIVE COMPONENTS*** **DECK PROTECTIVE COMPONENTS:** SERIES TYPE-# **COMPONENT MATERIAL CONSTRUCTION THICKNESS** YEAR APPLIED MANUFACTURE **OVERALL CONDITION** MAIN SERIES-1 WEARING SURFACE **ASPHALT** CINDER SEAL 2013 **COMMENT:** 2012 DECK PROTECTION LIQUID SEALANT INTERNALLY SEALED PAVON INDECK **COMMENT:** NONE *MEMBRANE NOTAPPLICABLE* **COMMENT: DRAINAGE COMPONENTS: COMPONENT MATERIAL CONSTRUCTION DIRECTION COMMENTS** DRAINAGE CURB OUTLET REINFORCED CONCRETE **EXPANSION DEVICE COMPONENTS: COMPONENT CONSTRUCTION** SUB UNIT-# SUB LABEL **MATERIAL** GAPYEAR APPLIED **MANUFACTURE OVERALL CONDITION COMMENT: BANK/SLOPE PROTECTION COMPONENTS: MATERIAL COMPONENT CONSTRUCTION DIRECTION COMMENTS** ***DECK COMPONENTS*** SPAN TYPE-# **COMPONENT CONSTRUCTION MATERIAL COMMENTS** MAIN SPANS-1 DECKREINFORCED CONCRETE CAST-IN-PLACE **CONDITION LOCATION 1** LOCATION 2 **SEVERITY MEASUREMENT COMMENT DELAMINATION RANDOM** MANY 60 % **THROUGHOUT MODERATE** DELAMINATION **MINOR DETERIORATION EDGE** LONGITUDINAL CRACKS THROUGHOUT **FEW** 60 % SATURATION RANDOM **MODERATE** 40 % SPALLS RANDOM MANY MANY SPALLS THROUGHOUT TRANSVERSE CRACKS THROUGHOUT MANY MAIN SPANS-2 DECKREINFORCED CONCRETE CAST-IN-PLACE **CONDITION** LOCATION 1 LOCATION 2 SEVERITY **MEASUREMENT COMMENT DELAMINATION RANDOM** MANY 40 % **MODERATE DELAMINATION THROUGHOUT**

COUNTY: HOLT DISTRICT: NW CLASS: STATBR FED-ID: 7272 BRIDGE: N0811

EDGE MINOR DETERIORATION **FEW** LONGITUDINAL CRACKS THROUGHOUT SATURATION **RANDOM MODERATE** 60 % 40 % **SPALLS RANDOM** MANY THROUGHOUT MANY SPALLS TRANSVERSE CRACKS **THROUGHOUT** MANY MAIN SPANS-3 DECK CAST-IN-PLACE REINFORCED CONCRETE **CONDITION** LOCATION 1 **LOCATION 2** SEVERITY **MEASUREMENT COMMENT DELAMINATION** RANDOM MANY 40 % **THROUGHOUT MODERATE DELAMINATION DETERIORATION EDGE** MINOR LONGITUDINAL CRACKS **THROUGHOUT FEW** SATURATION RANDOM MODERATE 60 % 40 % **SPALLS** RANDOM MANY **SPALLS THROUGHOUT** MANY TRANSVERSE CRACKS THROUGHOUT MANY ***SUPERSTRUCTURE COMPONENTS*** SERIES TYPE-# SPAN TYPE MATERIAL CONSTRUCTION **COMMENTS** LABEL MAIN SERIES-1 CONTINUOUS SPAN STEEL WIDE FLANGE GIRDERS **WEATHERING STEEL SPAN COMPOSITE INDICATOR LENGTH COMMENTS** MAIN SPANS-1 51 FT 9 IN NO NON-COMPOSITE **CONDITION** LOCATION 1 **SEVERITY MEASUREMENT COMMENT** LOCATION 2 RUSTING **TOP FLANGE MEDIUM** MAIN SPANS-2 NON-COMPOSITE 70 FT 0 IN NO **CONDITION LOCATION 1** LOCATION 2 **SEVERITY MEASUREMENT COMMENT TOP FLANGE RUSTING MEDIUM** MAIN SPANS-3 NON-COMPOSITE 51 FT 9 IN NO **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY MEASUREMENT COMMENT** RUSTING **TOP FLANGE MEDIUM** ***SUBSTRUCTURE COMPONENTS*** SUBSTRUCTURE **SKEW LENGTH** MATERIAL CONSTRUCTION LABEL **COMMENTS** RA-20 DEGREES ABUTMENT-1 25 FT 8 IN REINFORCED CONCRETE NON-INTEGRAL **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY** MEASUREMENT COMMENT ASSOCIATED COMPONENT **MATERIAL CONSTRUCTION** BEAM CAP REINFORCED CONCRETE CAST-IN-PLACE **CONDITION LOCATION 1** LOCATION 2 **SEVERITY** MEASUREMENT **COMMENT** SEALED ASPHALTICBASE BEAM CAP **PILING** REINFORCED CONCRETE CAST-IN-PLACE **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY** *MEASUREMENT* **COMMENT** STRAIGHT WINGS REINFORCED CONCRETE **CAST-IN-PLACE CONDITION** LOCATION 1 LOCATION 2 **SEVERITY** MEASUREMENT **COMMENT** BACKWALL REINFORCED CONCRETE CAST-IN-PLACE LOCATION 2 **CONDITION** LOCATION 1 **SEVERITY** MEASUREMENT COMMENT **EXPANSION BEARING** STEEL **ROCKER** DistrictAbbr = NW and Design No = n0811 and County = HOLT

MODOT

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COUNTY: HOLT	DISTRICT: NW	CLASS: STATBR	FED-ID): 7272	BRIDGE: N0811
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
RUSTING	THROUGHOUT		MEDIUM		
BENT-2 RA-20 DEGREES	22 FT 0 IN REINFORCED CONCRETE	PILE CAP			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
ASSOCIATED COMPONENT	<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>
PILING	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>
RUSTING	GROUND LINE		LIGHT		
FIXED BEARING	STEEL	PEDESTAL(ROTATING)	CELEBIEN	ME AGUNELAENT	COMMENT
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT
BENT-3 RA-20 DEGREES	22 FT 0 IN REINFORCED CONCRETE	PILE CAP			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
ASSOCIATED COMPONENT	<u>MATERIAL</u>	<u>CONSTRUCTION</u>			
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE	CELEBIEN	ME AGUNELAENT	COMMENT
<u>CONDITION</u>	<u>LOCATION 1</u>	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
PILING	REINFORCED CONCRETE	CAST-IN-PLACE	CELEDITY	MEACUDEMENT	COMMENT
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
RUSTING EXPANSION BEARING	GROUND LINE STEEL	ROCKER	LIGHT		
EAPANSION BEARING CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
CONDITION	<u>LOCATION I</u>	<u>LOCATION 2</u>	SL / LRITI	MLASCKLMLNI	COMMENT
ADMITTACENTE A DECEMBER	AS ET A DE DEDUCADED CONCRETE	DIEECD II			
ABUTMENT-4 RA-20 DEGREES	25 FT 8 IN REINFORCED CONCRETE	INTEGRAL	CEVEDITY	MEACHDEMENT	COMMENT
<u>CONDITION</u> ASSOCIATED COMPONENT	<u>LOCATION 1</u> <u>MATERIAL</u>	<u>LOCATION 2</u> <u>CONSTRUCTION</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
ASSOCIATED COMPONENT BEAM CAP	MATERIAL REINFORCED CONCRETE	CAST-IN-PLACE			
DEAM CAP <u>CONDITION</u>	REINFORCED CONCRETE <u>LOCATION 1</u>	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT
SEALED	BEAM CAP	DOCATION 2	ASPHALTICBASE	MENIGOREMENT	COMMENT.
PILING	REINFORCED CONCRETE	CAST-IN-PLACE	ASITALITODASE		
<u>CONDITION</u>	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT
STRAIGHT WINGS	REINFORCED CONCRETE	CAST-IN-PLACE	<u> </u>		
CONDITION	<u>LOCATION 1</u>	LOCATION 2	<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>
EXPANSION BEARING	STEEL	ROCKER			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	MEASUREMENT	<u>COMMENT</u>
RUSTING	THROUGHOUT		MEDIUM		

OVER/UNDER ROUTES CLEARANCE INFORMATION

**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.

<u>CLEARANCES OVER DECK</u> <u>VERTICAL CLEARANCE TYPE**</u>

VALUE

DIRECTION

DATE

COMMENT

September 09, 2022 Missouri Department of Transportation 7:30:02AM

State Bridge Inspection Report

COUNTY: HOLT

MODOT

CLEARANCES UNDER BRIDGE

DISTRICT: NW

**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.

CLASS: STATBR

FED-ID: 7272

BRIDGE: N0811

RECORD # **ROUTE DIRECTION OF TRAFFIC** RIGHT LATERAL CLEARANCE LEFT LATERAL CLEARANCE **UR-ID** # LANES **VERTICAL CLEARANCE TYPE** VALUE DIRECTION DATE COMMENT** ***STRUCTURE PAINT INFORMATION*** **CONDITION:** GOOD **RUST AMOUNT:** 7 = .2% OF SURFACE RUSTED STEEL TONS: 41 **ORIGINAL PAINT CONTRACT REPAINT** DEPARTMENT REPAINT **PAINT TYPE:** A SYSTEM **PAINT TYPE: PAINT TYPE: MANUFACTURE: NAME:** RED LEAD NAME: NAME: **SURFACE PREP: PAINT COLOR: ALUMINUM PAINT COLOR: PAINT COLOR:** PAINT YEAR: 1963 **PAINT YEAR: PAINT YEAR:** MILS: 5MILS: MILS: ***REQUESTED WORK ITEMS*** **GENERAL WORK COMMENTS: ITEM** RESPONSIBILITY **LOCATION CATEGORY PRIORITY** DATE **WORK ITEM COMMENT** ***UTILITY ATTACHMENTS*** **UTILITY OWNER METHOD MEASUREMENT TYPE** UTILITY ATTACHMENT COMMENT **VALUE NUMBER** ***PROGRAM NOTES INFORMATION*** PROJECT# **MONTH LET** YEAR LET ITEMS **COMMENT YEAR**



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COUNTY: HOLT DISTRICT: NW CLASS: STATBR FED-ID: 7272 BRIDGE: N0811

L COUNTY: NO	LI DISTRICT: NW	CLASS: STATER	FED-ID: /2/2	DKIDGE: NUOII			
COM	PUTER GENERATED RATINGS AND I	DEFICIENCY ITEMS	***ADVANCED SIGN INFORMATION***				
NOTE: The items listed in this section are	e updated whenever computer edits are ran on a struc	ture after the inspection updates have been entered in to TMS.	SIGN#	SIGN TYPE	PROBLEM	PROBLEM DIRECTION	
Rated Item	<u>Rating</u>	Rating Date	1				
[Item 67] Structure Evaluation Rating:	5-BETTER THAN MINIMUM	12/28/2011					
[Item 68] Deck Geometry Rating:	4-MEETS MINIMUM TOLERABLE	3/8/2022					
[Item 69] Underclearance:	N-NOT APPLICABLE	5/18/2001					
Sufficiency Rating:	54.0%	3/8/2022					
Deficiency:	STRUCTURAL	1/5/2010					
Funding Eligibility:				***OUTFALL INSP	ECTION INFORMATIO	N***	
Estimated New Structure Length:			# OXEDATE 6	TO 1/2	CDE CEOD		
Estimated Structure Cost:			# OUTFALLS:	INS	SPECTOR:		
Estimated Total Project Cost:			STATUS:		DATE:		
Year of Cost Estimate:			NOTES:				
NOTE: The above structure length and cost estimates are computer generated using algorithims 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.							



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COUNTY: HOLT DISTRICT: NW CLASS: STATBR FED-ID: 7272

BRIDGE: N0811

MoDOT

Missouri Department of Transportation State Bridge Inspection Report

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COUNTY: ATCHISON DISTRICT: NW CLASS: STATBR FED-ID: 8235 BRIDGE: R0274

GENERAL STRUCTURE INFORMATION ***BRIDGE INSPECTION INFORMATION*** **ROUTE: RTFS** # **SPANS**: 3 PLACE CODE: 58700 POLK **DATE:** 09/21/2021 **RESPONSIBILITY: DISTRICT** LANES ON: 1 FEATURE: ROCK CR LENGTH: 154 FT 0 IN FREQUENCY: 24 **CALCULATED INTERVAL**: 24** LANES UNDER: 0 **STATUS:** P-POSTLOAD MAXIMUM SPAN: 60 FT 0 IN **TEAM LEADER: SCOTT STEPHENS ELEMENT: NO LOG MILE: 2.462 COMPASS DIRECTION: NORTH to SOUTH** APPROACH ROADWAY: 20 FT 0 IN **INSPECTOR 2: INSPECTOR 4: DETOUR: 99.00 MILES DIRECTION OF TRAFFIC: 1-LN/2-WAY** CURB TO CURB: 20 FT 0 IN **INSPECTOR 3: OUT TO OUT: 22 FT 4 IN** NHS: NO **FUNCTIONAL CLASS: RL-MINOR COLLECTOR** ** When calculated interval exceeds the frequency, a justification comment per BIRM is required. **BUILT:** 1962 **NBI OWNER: MODOT AADT:** 82 **GENERAL INSPECTION COMMENTS** REHAB: **NBI MAINTAINED: MODOT** AADT YEAR: 2021 MAINTENANCE DISTRICT: NW LOCATION: S 9 T 66 R 40 W **AADT TRUCK: 12.5% LATITUDE:** 40 32 43.65 (DMS) **MAINTENANCE COUNTY: ATCHISON FUTURE AADT: 107 LONGITUDE:** 95 27 .19 (DMS) SUB AREA: 7A33 **FUTURE AADT YEAR: 2041** ***INDEPTH INSPECTION INFORMATION*** ***FRACTURE CRITICAL INSPECTION INFORMATION*** DATE: RESPONSIBILITY: **CATEGORY: CATEGORY:** DATE: **RESPONSIBILITY: FREQUENCY: CALCULATED INTERVAL**: NBI**: **FREQUENCY: CALCULATED INTERVAL**: NBI**: **TEAM LEADER: INSPECTOR 3: METHOD: TEAM LEADER: INSPECTOR 3: METHOD: INSPECTOR 2: 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:** 12/23/2019 CATEGORY: CHANNEL CROSS SECT **CATEGORY: DRY RESPONSIBILITY: DISTRICT DATE:** 09/21/2021 **RESPONSIBILITY: DISTRICT** FREOUENCY: 72 **NBI:** NO NBI: NO CALCULATED INTERVAL**: 66 FREOUENCY: 60 CALCULATED INTERVAL**: 24 **TEAM LEADER: SCOTT STEPHENS METHOD:** VISUAL **TEAM LEADER: INSPECTOR 3: METHOD:** WT TAPE **INSPECTOR 3: INSPECTOR 2:** CHANNEL CROSS SECTIONINSPECTOR 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. SPECIAL INSPECTION COMMENTS **UNDERWATER INSPECTION COMMENTS** OTHER SPECIAL INSPECTIONS OTHER UNDERWATER INSPECTIONS **DATE FREQUENCY CATEGORY** NBI CALCULATED INTERVAL RESPONSIBILITY **METHOD** DATE **FREQUENCY CATEGORY** NBI CALCULATED INTERVAL RESPONSIBILITY **METHOD**

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COUNTY: ATCHISON

DISTRICT: NW

CLASS: STATBR

FED-ID: 8235

BRIDGE: R0274

STRUCTURE POSTING **APPROVED CATEGORY: S-4** CENTERLINE OF BRIDGE. **Ton 1: Ton 2: Ton 3: COMMENTS:** FIELD CATEGORY: S-4 CENTERLINE OF BRIDGE. **PROBLEM:** PROBLEM DIRECTION: **Ton 1: Ton 2: Ton 3: COMMENTS:** ***GENERAL COMMENTS/MAJOR RATED ITEMS*** GENERAL COMMENTS: (BOWDEJ1, 10/13/2009)--(47'-60'-47') CONT COMP WF GDR SPANS [ITEM 58] DECK: 4-POOR CONDITION COMMENTS: (STEPHS2, 09/30/2019)--DECK SATURATION **RATING:** 09/30/2019 [ITEM 59] SUPER: 6-SATISFACTORY CONDITION COMMENTS: (STEPHS2, 09/11/2015)--RUSTING TOP FLANGE **RATING:** 09/11/2015 [ITEM 60] SUB: 5-FAIR CONDITION COMMENTS: (STEPHS2, 09/25/2013)--LOWERED BECAUSED OF EXPOSED PILE LENGTH **RATING:** 09/25/2013 [ITEM 61] BANK/CHANNEL: 5-MAJOR DAMAGE COMMENTS: (BOWDEJ1, 02/10/2004)--CHANNEL DEEPENING - SE DITCH ERODING **RATING:** 09/11/2015 [ITEM 113] SCOUR: 5-FOUNDATION STABLE COMMENTS: (STEPHS2, 09/25/2013)--SCOUR OCCURING AT BENT 2. 18FT OF SHELL PILE EXPOSED. **RATING:** 09/25/2013 **EVALUATION TYPE:** [ITEM 71] WATERWAY ADEQUACY: DECK/APPRCH OVERTOP SLIGT **COMMENTS: RATING:** 05/18/2001 [ITEM 72] APPRRDWY ALIGNMENT: 8-VERYGOOD **COMMENTS: RATING:** 05/18/2001 ***RAILING AND APPROACH PAVEMENT COMPONENTS AND RATINGS*** **RATING:** 10/13/2009 [ITEM 36A] BRIDGE RAILING RATING: DOESNT MEET CURRNT STND-0 **COMMENTS: DIRECTION MATERIAL CONSTRUCTION COMMENTS** REINFORCED CONCRETE **CURB BOTH** STEEL **BOTH** CHANNEL-12" [ITEM 36B] TRANSITION RAILING RATING: NOT PROVIDED-0 **COMMENTS: RATING:** 05/18/2001 [ITEM 36C] APPROACH RAILING RATING: NOT PROVIDED-0 **COMMENTS: RATING:** 05/18/2001 [ITEM 36D] RAIL END TREATMENT RATING: NOT PROVIDED-0 **RATING:** 05/18/2001 **COMMENTS:**

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APPROAC	CH PAVEMENT: *Overall	condition assigned for each app	proach pavemenet comp	onent is shown below.									
<u>MATERIAL</u>			DIRECTION	CONDITION*	<u>COMMENTS</u>	,							
ASPHALT	· · · · · · · · · · · · · · · · · · ·	MINOUS MAT	ВОТН	GOOD	001,21,221, 22	•							
		AAADD A INI	CE EVELNOIO	TIPETHONG DA	TITLE OPE AN	TO DECLY DD			~				
CK PROTECTIVE COMPO	NENTS.	***DRAIN	AGE, EXPANSIO	N DEVICES, BA	NK/SLOPE, AN	D DECK PRO	OTECTIVE (COMPONENTS	<u>S***</u>				
<u>SERIES TYPE-#</u>	<u>COMPONENT</u>	<u>MATE</u>	RIAL	<u>CONSTRUCT</u>	ION T	HICKNESS	YEAR APPLIEL	<u>MANUFACTU</u>	J RE	OVERALL C	ONDITION		
MAIN SERIES-1	WEARING SURFACE	PLAIN CO		MONOLITH					<u></u>				
COMMENT:													
	DECK PROTECTION	NOTAPPL	CICABLE	NONE									
COMMENT:													
	MEMBRANE	NOTAPPL	CICABLE	NONE									
COMMENT:													
AINAGE COMPONENTS:													
	<u>COMPONENT</u>	<u>MATE</u>		<u>CONSTRUCT</u>		<u>DIRECTION</u>	<u>COMMENT</u>	<u>S</u>					
	DRAINAGE	REINFORCED) CONCRETE	CURB OUTL	ET								
ANGION DELVICE COMP	ONENTO.												
ANSION DEVICE COMPO SUB UNIT-# SUB													
30/13 0//311-# 30/13	LABEL COM	PONENT	MATERIAL		CONSTRUCTION		GAP YE	EAR APPLIED	MANUFAC	TURE	OVERALL CO	NDITION	
<u> 30B UNII-#</u> <u> </u>	<u>LABEL</u> <u>COM</u>	<u>PONENT</u>	<u>MATERIAL</u>		<u>CONSTRUCTION</u>		<u>GAP</u> <u>YE</u>	EAR APPLIED	<u>MANUFAC</u>	TURE	OVERALL CO	<u>NDITION</u>	
	<u>LABEL</u> <u>COM</u>	<u>IPONENT</u>	<u>MATERIAL</u>		<u>CONSTRUCTION</u>		<u>GAP</u> <u>YE</u>	EAR APPLIED 1	<u>MANUFAC</u>	TURE	OVERALL CO	<u>NDITION</u>	
<u>COMMENT:</u>	<u>LABEL</u> <u>COM</u>	<u>IPONENT</u>	<u>MATERIAL</u>		<u>CONSTRUCTION</u>		<u>GAP</u> <u>YE</u>	EAR APPLIED 1	<u>MANUFAC</u>	TURE	OVERALL COL	<u>NDITION</u>	
<u>COMMENT:</u>		<u>IPONENT</u>	<u>MATERIAL</u>		CONSTRUCTION		<u>GAP</u> <u>YE</u>	EAR APPLIED 1	MANUFAC	TURE	OVERALL CO	<u>NDITION</u>	
<u>COMMENT:</u>	COMPONENTS:					DIRECTION			<u>MANUFAC</u>	TURE	OVERALL CO	<u>NDITION</u>	
<u>COMMENT:</u>		<u>MATE</u> EARTH	<u>CRIAL</u>	<u>CONSTRUCT</u> NOT APPLICA	<u>ION</u>	DIRECTION BOTH	GAP YE		<u>MANUFAC</u>	TURE	OVERALL CO	<u>NDITION</u>	
<u>COMMENT:</u>	COMPONENTS: COMPONENT	<u>MATE</u>	<u>CRIAL</u>	<u>CONSTRUCT</u>	<u>ION</u>				<u>MANUFAC</u>	TURE	OVERALL CO	<u>NDITION</u>	
<u>COMMENT:</u>	COMPONENTS: COMPONENT	<u>MATE</u>	<u>CRIAL</u>	<u>CONSTRUCT</u> NOT APPLICA	<u>ION</u>	ВОТН			MANUFAC	TURE	OVERALL CO	<u>NDITION</u>	
<u>COMMENT:</u> NK/SLOPE PROTECTION	COMPONENTS: COMPONENT BANK PROTECTION	<u>MATE</u> EARTH	E <u>RIAL</u> H FILL	<u>CONSTRUCT</u> NOT APPLICA	<u>ION</u> BLE SK COMPONEN	BOTH NTS***			MANUFAC	TURE	OVERALL CO	NDITION	
<u>COMMENT:</u>	COMPONENTS: COMPONENT	<u>MATE</u>	ERIAL H FILL ERIAL	CONSTRUCT NOT APPLICA *** DE C	ION BLE CK COMPONEN ION CO.	ВОТН			MANUFAC	TURE	OVERALL CO	NDITION	
COMMENT: NK/SLOPE PROTECTION OF SPAN TYPE-# MAIN SPANS-1 CONDI	COMPONENTS: COMPONENT BANK PROTECTION COMPONENT DECK	<u>MATE</u> EARTH <u>MATE</u> REINFORCED <u>LOCATION 1</u>	ERIAL H FILL ERIAL	CONSTRUCT NOT APPLICA ***DEC CONSTRUCT CAST-IN-PLA	ION BLE CK COMPONED ION CO. ICE SEVERITY	BOTH NTS***	<u>COMMENT</u>	<u>s</u>	MANUFAC	TURE	OVERALL CO	NDITION	
COMMENT: NK/SLOPE PROTECTION OF SPAN TYPE-# MAIN SPANS-1 CONDI	COMPONENTS: COMPONENT BANK PROTECTION COMPONENT DECK ITION INATION	MATE EARTH MATE REINFORCED LOCATION 1 RANDOM	ERIAL H FILL ERIAL D CONCRETE	CONSTRUCT NOT APPLICA ***DEC CONSTRUCT CAST-IN-PLA	ION BLE CK COMPONENT ION CO. ICE SEVERITY MANY	NTS*** MMENTS	<u>COMMENT</u>	<u>s</u>	MANUFAC	TURE	OVERALL CO	NDITION	
COMMENT: NK/SLOPE PROTECTION OF SPAN TYPE-# MAIN SPANS-1 CONDITION OF THE SPANS DELAMIN DETERIC	COMPONENTS: COMPONENT BANK PROTECTION COMPONENT DECK TION INATION DRATION DRATION	MATE EARTH MATE REINFORCED LOCATION 1 RANDOM EDGE	ERIAL H FILL ERIAL D CONCRETE	CONSTRUCT NOT APPLICA ***DEC CONSTRUCT CAST-IN-PLA	ION BLE CK COMPONEN ION CO. CE SEVERITY MANY MINOR	NTS*** MMENTS	<u>COMMENT</u>	<u>s</u>	MANUFAC	TURE	OVERALL CO	NDITION	
COMMENT: NK/SLOPE PROTECTION OF SPAN TYPE-# MAIN SPANS-1 CONDICTED OF THE SPANS	COMPONENTS: COMPONENT BANK PROTECTION COMPONENT DECK ITION INATION ORATION H PATCHES	MATE EARTH MATE REINFORCED LOCATION 1 RANDOM EDGE RANDOM	ERIAL H FILL ERIAL D CONCRETE	CONSTRUCT NOT APPLICA ***DEC CONSTRUCT CAST-IN-PLA	ION BLE CK COMPONES ION CO. ICE SEVERITY MANY MINOR FEW	BOTH NTS*** MMENTS MEASUREM	<u>COMMENT</u>	<u>s</u>	MANUFAC	TURE	OVERALL CO	NDITION	
COMMENT: NK/SLOPE PROTECTION OF SPAN TYPE-# MAIN SPANS-1 CONDITION OF THE SPANS DELAMIN DETERIC	COMPONENTS: COMPONENT BANK PROTECTION COMPONENT DECK ITION INATION ORATION ORATION ORATCHES H PATCHES	MATE EARTH MATE REINFORCED LOCATION 1 RANDOM EDGE	ERIAL H FILL ERIAL D CONCRETE	CONSTRUCT NOT APPLICA ***DEC CONSTRUCT CAST-IN-PLA	ION BLE CK COMPONEN ION CO. CE SEVERITY MANY MINOR	NTS*** MMENTS	<u>COMMENT</u>	<u>s</u>	MANUFAC	TURE	OVERALL CO	NDITION	
COMMENT: NK/SLOPE PROTECTION OF SPAN TYPE-# MAIN SPANS-1 DELAMI DETERIC FULL DEPT FULL DEPT POP-C SATUR	COMPONENTS: COMPONENT BANK PROTECTION COMPONENT DECK TION INATION ORATION ORATION H PATCHES H PATCHES OUTS ATION	MATE EARTH MATE REINFORCED LOCATION 1 RANDOM EDGE RANDOM THROUGHOUT THROUGHOUT THROUGHOUT	ERIAL H FILL ERIAL D CONCRETE	CONSTRUCT NOT APPLICA ***DEC CONSTRUCT CAST-IN-PLA	ION BLE CK COMPONED ION CO CE SEVERITY MANY MINOR FEW MANY FEW MINOR	BOTH NTS*** MMENTS MEASUREM	<u>COMMENT</u>	<u>s</u>	MANUFAC	TURE	OVERALL CO	NDITION	
COMMENT: NK/SLOPE PROTECTION OF SPAN TYPE-# MAIN SPANS-1 CONDITION DELAMI DETERIO FULL DEPT FULL DEPT POP-O SATUR SPA	COMPONENTS: COMPONENT BANK PROTECTION COMPONENT DECK TION INATION ORATION H PATCHES OUTS ATION LLS	MATE EARTH MATE REINFORCED LOCATION 1 RANDOM EDGE RANDOM THROUGHOUT THROUGHOUT THROUGHOUT RANDOM	ERIAL H FILL ERIAL D CONCRETE	CONSTRUCT NOT APPLICA ***DEC CONSTRUCT CAST-IN-PLA	EK COMPONED ONE ONE ONE ONE ONE ONE ONE	BOTH NTS*** MMENTS MEASUREM 10 %	<u>COMMENT</u>	<u>s</u>	MANUFAC	TURE	OVERALL CO	NDITION	
COMMENT: NK/SLOPE PROTECTION OF SPAN TYPE-# MAIN SPANS-1 DELAMI DETERIC FULL DEPT FULL DEPT POP-C SATUR	COMPONENTS: COMPONENT BANK PROTECTION COMPONENT DECK TION INATION ORATION H PATCHES OUTS ATION LLS	MATE EARTH MATE REINFORCED LOCATION 1 RANDOM EDGE RANDOM THROUGHOUT THROUGHOUT THROUGHOUT	ERIAL H FILL ERIAL D CONCRETE	CONSTRUCT NOT APPLICA ***DEC CONSTRUCT CAST-IN-PLA	ION BLE CK COMPONED ION CO CE SEVERITY MANY MINOR FEW MANY FEW MINOR	BOTH NTS*** MMENTS MEASUREM 10 %	<u>COMMENT</u>	<u>s</u>	MANUFAC	TURE	OVERALL CO	NDITION	
COMMENT: NK/SLOPE PROTECTION OF SPAN TYPE# MAIN SPANS-1 DELAMIN DETERIOR FULL DEPT FULL DEPT POP-OP-OP-OP-OP-OP-OP-OP-OP-OP-OP-OP-OP-	COMPONENTS: COMPONENT BANK PROTECTION COMPONENT DECK TION INATION ORATION OF PATCHES OUTS ATION LLS SE CRACKS	MATE EARTH MATE REINFORCED LOCATION 1 RANDOM EDGE RANDOM THROUGHOUT THROUGHOUT THROUGHOUT RANDOM DRIVING SURFACE	ERIAL H FILL ERIAL D CONCRETE LOCAT	CONSTRUCT NOT APPLICA ***DEC CONSTRUCT CAST-IN-PLA	EK COMPONENT CO. ICE SEVERITY MANY MINOR FEW MANY FEW MINOR FEW MINOR FEW MINOR FEW MINOR FEW MINOR FEW FEW FEW	BOTH NTS*** MMENTS MEASUREM 10 %	<u>COMMENT</u>	<u>s</u>	MANUFAC	TURE	OVERALL CO	NDITION	
COMMENT: NK/SLOPE PROTECTION OF SPAN TYPE-# MAIN SPANS-1 DELAMI DETERIO FULL DEPT FULL DEPT POP-O SATUR SPA TRANSVER	COMPONENTS: COMPONENT BANK PROTECTION COMPONENT DECK INATION CH PATCHES H PATCHES ATION LLS SE CRACKS DECK	MATE EARTH MATE REINFORCED LOCATION 1 RANDOM EDGE RANDOM THROUGHOUT THROUGHOUT THROUGHOUT RANDOM DRIVING SURFACE	ERIAL H FILL ERIAL D CONCRETE LOCAT	CAST-IN-PLA	ION BLE CK COMPONEN ION CO CE SEVERITY MANY MINOR FEW MANY FEW MINOR FEW MINOR FEW FEW FEW FEW	BOTH NTS*** MMENTS MEASUREM 10 % 40 %	COMMENT MENT COMM	<u>MENT</u>	MANUFAC	TURE	OVERALL CO	NDITION	
COMMENT: NK/SLOPE PROTECTION OF SPAN TYPE-# MAIN SPANS-1 DELAMIN DETERIOR FULL DEPT FULL DEPT POP-OP-OP-OP-OP-OP-OP-OP-OP-OP-OP-OP-OP-	COMPONENTS: COMPONENT BANK PROTECTION COMPONENT DECK TION NATION DRATION H PATCHES H PATCHES OUTS ATION LLS SE CRACKS DECK	MATE EARTH MATE REINFORCED LOCATION 1 RANDOM EDGE RANDOM THROUGHOUT THROUGHOUT THROUGHOUT RANDOM DRIVING SURFACE	ERIAL H FILL ERIAL D CONCRETE LOCAT	CAST-IN-PLA	EK COMPONENT CO. ICE SEVERITY MANY MINOR FEW MANY FEW MINOR FEW MINOR FEW MINOR FEW MINOR FEW MINOR FEW FEW FEW	BOTH NTS*** MMENTS MEASUREM 10 %	COMMENT MENT COMM	<u>MENT</u>	MANUFAC	TURE	OVERALL CO	NDITION	

COUNTY: ATCHISON DISTRICT: NW CLASS: STATBR FED-ID: 8235 BRIDGE: R0274 THROUGHOUT FULL DEPTH PATCHES MANY **FEW** POP-OUTS THROUGHOUT SATURATION THROUGHOUT **MINOR** 20 % TRANSVERSE CRACKS **DRIVING SURFACE FEW** MAIN SPANS-3 DECKREINFORCED CONCRETE CAST-IN-PLACE **CONDITION** LOCATION 1 LOCATION 2 SEVERITY **MEASUREMENT COMMENT RANDOM** DELAMINATION MANY **EDGE** MINOR DETERIORATION **EFFLORESCENCE** THROUGHOUT MINOR **THROUGHOUT** MANY 10 % **FULL DEPTH PATCHES** MAP CRACKS **THROUGHOUT FEW** THROUGHOUT **FEW** POP-OUTS SATURATION THROUGHOUT **MINOR** 50 % **SPALLS** RANDOM LARGE **FEW** TRANSVERSE CRACKS DRIVING SURFACE ***SUPERSTRUCTURE COMPONENTS*** SERIES TYPE-# SPAN TYPE MATERIAL CONSTRUCTION LABEL **COMMENTS** WIDE FLANGE GIRDERS MAIN SERIES-1 CONTINUOUS SPAN STEEL **COMPOSITE INDICATOR WEATHERING STEEL COMMENTS SPAN LENGTH** MAIN SPANS-1 47 FT 2 IN COMPOSITE NO LOCATION 1 **CONDITION SEVERITY MEASUREMENT** LOCATION 2 **COMMENT EXTERIOR GIRDERS RUSTING MINOR** (STEPHS2, 09/30/2019)--BOTTOM FLANGE **RUSTING TOP FLANGE MINOR** MAIN SPANS-2 COMPOSITE 60 FT 0 IN NO **CONDITION LOCATION 1** LOCATION 2 **SEVERITY MEASUREMENT COMMENT EXTERIOR GIRDERS RUSTING MINOR** (STEPHS2, 09/30/2019)--BOTTOM FLANGE **RUSTING TOP FLANGE MINOR** MAIN SPANS-3 COMPOSITE 47 FT 2 IN NO SEVERITY **CONDITION** LOCATION 1 LOCATION 2 **MEASUREMENT COMMENT RUSTING EXTERIOR GIRDERS MINOR** (STEPHS2, 09/30/2019)--BOTTOM FLANGE **RUSTING TOP FLANGE MINOR** ***SUBSTRUCTURE COMPONENTS*** CONSTRUCTION **SUBSTRUCTURE SKEW LENGTH** MATERIAL LABEL **COMMENTS** ABUTMENT-1 RA-40 DEGREES 31 FT 7 IN REINFORCED CONCRETE NON-INTEGRAL **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY** MEASUREMENT COMMENT ASSOCIATED COMPONENT **CONSTRUCTION MATERIAL** BEAM CAP REINFORCED CONCRETE **CAST-IN-PLACE** LOCATION 1 LOCATION 2 **SEVERITY CONDITION MEASUREMENT COMMENT** PILING REINFORCED CONCRETE **CAST-IN-PLACE CONDITION LOCATION 1** LOCATION 2 **SEVERITY** MEASUREMENT **COMMENT** STRAIGHT WINGS REINFORCED CONCRETE **CAST-IN-PLACE CONDITION LOCATION 1** LOCATION 2 SEVERITY MEASUREMENT **COMMENT** BACKWALL REINFORCED CONCRETE CAST-IN-PLACE **CONDITION** LOCATION 2 **SEVERITY LOCATION 1** MEASUREMENT COMMENT STEEL CURVED PLATE(ROTATING FIXED BEARING

MODOT

COUNTY: ATCHISON	DISTRICT: NW	CLASS: STATBR	FED-II	D: 8235	BRIDGE: R0274
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
BENT-2 RA-40 DEGREES	26 FT 3 IN REINFORCED CONCRETE	PILE CAP			
<u>CONDITION</u>	<u>LOCATION 1</u>	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
ASSOCIATED COMPONENT	MATERIAL DEDUCACION CONCRETE	CONSTRUCTION			
BEAM CAP <i>CONDITION</i>	REINFORCED CONCRETE <i>LOCATION 1</i>	CAST-IN-PLACE <u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT
PILING	STEEL STEEL	PIPE	<u>SEVERITI</u>	MEASUREMENT	COMMENT
CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
LOCAL SCOUR	GROUND LINE	<u>========</u>	PILE EXPOSED		(STEPHS2, 09/30/2019)PAINTED 2018
RUSTING	GROUND LINE		MODERATE		
FIXED BEARING	STEEL	CURVED PLATE(ROTATING)			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
BENT-3 RA-40 DEGREES	26 FT 3 IN REINFORCED CONCRETE	PILE CAP			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
ASSOCIATED COMPONENT	MATERIAL	<u>CONSTRUCTION</u>			
BEAM CAP <i>CONDITION</i>	REINFORCED CONCRETE LOCATION 1	CAST-IN-PLACE <i>LOCATION 2</i>	<u>SEVERITY</u>	MEASUREMENT	COMMENT
PILING	STEEL	PIPE	<u>SEVERIII</u>	MEASUREMENT	COMMENT
CONDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT
LOCAL SCOUR	GROUND LINE	<u> </u>	PILE EXPOSED	MENIOCKEMIE (1	COMMENT
RUSTING	GROUND LINE		MODERATE		
FIXED BEARING	STEEL	CURVED PLATE(ROTATING			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
ABUTMENT-4 RA-40 DEGREES	31 FT 7 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>
ASSOCIATED COMPONENT	MATERIAL	<u>CONSTRUCTION</u>			
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE	CELEDITY	ME ACUDEMENT	COMMENT
<u>CONDITION</u> EROSION	<u>LOCATION 1</u> GROUND LINE	<u>LOCATION 2</u>	<u>SEVERITY</u> Minor	<u>MEASUREMENT</u>	(MENEET, 03/14/2012)SE CORNER.
PILING	REINFORCED CONCRETE	CAST-IN-PLACE	MINOR		(NIENEE1, 05/14/2012)SE CORNER.
CONDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT
STRAIGHT WINGS	REINFORCED CONCRETE	CAST-IN-PLACE	<u></u>		
<u>CONDITION</u>	<u>LOCATION 1</u>	LOCATION 2	<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	CURVED PLATE(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

**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.

<u>CLEARANCES OVER DECK</u> <u>VERTICAL CLEARANCE TYPE**</u>

VALUE

DIRECTION

DATE

COMMENT

September 09, 2022 Missouri Department of Transportation 7:32:34AM

State Bridge Inspection Report

COUNTY: ATCHISON

MODOT

DISTRICT: NW

CLASS: STATBR

FED-ID: 8235

BRIDGE: R0274

CLEARANCES UNDER BRIDGE **NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance. RECORD # **ROUTE DIRECTION OF TRAFFIC** RIGHT LATERAL CLEARANCE LEFT LATERAL CLEARANCE **UR-ID** # LANES **VERTICAL CLEARANCE TYPE** VALUE DIRECTION DATE COMMENT** ***STRUCTURE PAINT INFORMATION*** GOOD **CONDITION: RUST AMOUNT:** 7 = .2% OF SURFACE RUSTED **STEEL TONS**: 27 **ORIGINAL PAINT** DEPARTMENT REPAINT **CONTRACT REPAINT PAINT TYPE:** A SYSTEM **PAINT TYPE: MANUFACTURE: PAINT TYPE:** NAME: NAME: **NAME:** RED LEAD **SURFACE PREP: PAINT COLOR: ALUMINUM PAINT COLOR: PAINT COLOR:** PAINT YEAR: 1964 **PAINT YEAR: PAINT YEAR:** MILS: 4MILS: MILS: ***REQUESTED WORK ITEMS*** GENERAL WORK COMMENTS: (WILSOJ, 03/13/2002)--EROSION HOLES AT NORTH WEST AND SOUTH EAST CORNER. **PRIORITY** RESPONSIBILITY **LOCATION ITEM CATEGORY DATE WORK ITEM COMMENT** DISTRICT ROUTINE AROUND SUBSTRUCTURE PLACE GABIONS CHANNEL 09/25/2013 2 ***UTILITY ATTACHMENTS*** **UTILITY OWNER METHOD MEASUREMENT TYPE** UTILITY ATTACHMENT COMMENT **VALUE NUMBER**

MONTH LET

YEAR LET

ITEMS

PROJECT#

YEAR

PROGRAM NOTES INFORMATION

COMMENT



September 09, 2022 7:32:34AM

COUNTY: ATCHISON DISTRICT: NW CLASS: STATBR FED-ID: 8235 BRIDGE: R0274

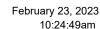
	mson bistriction	CLIES, STITIBIL	1 ED 1D: 0200	DRID GET RUZT				
COMI	PUTER GENERATED RATINGS AND	DEFICIENCY ITEMS		***ADVANCED SIGN INFORMATION***				
NOTE: The items listed in this section are	updated whenever computer edits are ran on a struc	cture after the inspection updates have been entered in to TMS.	SIGN#	SIGN TYPE	PROBLEM	PROBLEM DIRECTION		
Rated Item	Rating	Rating Date	1	YIELD TO ONCOMING TRAFFIC				
[Item 67] Structure Evaluation Rating:	4-MEETS MINIMUM TOLERABLE	2/28/2002	2	B - ONE LANE BRIDGE				
[Item 68] Deck Geometry Rating:	5-BETTER THAN MINIMUM	1/8/2021						
[Item 69] Underclearance:	N-NOT APPLICABLE	5/18/2001						
Sufficiency Rating:	45.7%	3/31/2022						
Deficiency:	STRUCTURAL	10/1/2019						
Funding Eligibility:				***OUTFALL INSPECT	TION INFORMATION	V***		
Estimated New Structure Length:			" OHERALI C	DIODE	CEOD			
Estimated Structure Cost:			# OUTFALLS	: INSPEC	CTOR:			
Estimated Total Project Cost:			STATUS	:	DATE:			
Year of Cost Estimate:			NOTES	:				
NOTE: The above structure length and cost estimates are computer generated using algorithims in the TMS system. These algorithms are								
	e e e e e e e e e e e e e e e e e e e	ew area which is taken times a representative cost per						
square foot. The actual structure size and co	st may vary significantly from these numbers once	site specific engineering is done.						
			l .					



DISTRICT: NW

September 09, 2022 7:32:34AM

CLASS: STATBR FED-ID: 8235 BRIDGE: R0274





COUNTY: HOLT A1906 2 REVIEW STATUS: APPROVED T **BRIDGE:** NBI STATUS: 2022 1/26/2023 **RECORD TYPE:** 2ND RTE THAT GOES 'UNDR'S **SUBMITTAL YEAR:** RUN DATE: GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION State 2ND RTE THAT GOES 'UNDR'S Code: B MISSOURI 5A Record Type District 5B NWRoute Signing Prefix MAINLINE HOLT County 5C Designated Level of Service 00029 Federal ID No. 1596 8 5D Route Number 1972 NOT APPLICABLE 27 Year Built 5E Directional Suffix US 59 S 106 0 7 Year Reconstructed Facility Carried HIGHWAY Type of Service On 12 Base Hwv. Network Structure Maintenance 13A LRS Inventory Route No. 22 Structure Owner 13B Subroute No. 33 ON FREE ROAD Br. Median Code Toll Status 20 01-RU PRINCIPL ARTRIAL-IS 37 Historical Significance 26 Functional Classification 101 NONE EXISTS Parallel Struc Desg 28A Lanes on Structure NOT TEMPORARY Temporary Structure 103 ON A DEFENSE HWY 100 STRAHNET Designation NBIS Bridge Length ON NHS 104 National Highway System 105 Federal Lands Highway YES 110 Designated Nat. Network STRUCTURE LOCATION INFORMATION STRUCTURE TRAFFIC INFORMATION 6872 4 Place UNION AADT 29 74680 2021 Code 30 AADT Year 1-WAY TRAFFIC S 2 T 62 N R 40 W Location 102 Direction of Traffic 11 Milepoint 98.71 miles 36% 109 **AADT Truck Percent** 16 Latitude 40 D 12 M 28 S 114 Future AADT 17 Longitude 95 D 22 M 28 S 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION IS 29 10 17 Ft. 5 In. Inventory Rte. Vert. Clear Features Intersected 42B HIGHWAY 19 50.00 miles Type of Service Under By pass Detour Length 28B Lanes Under Structure 02 32 Approach Roadway Width 54A 34 Vert. Clearance Ref. Skew 54B Vert. Clearance 35 Struct. Flared Rt. Lat Clear Ref. 34 Ft. 1 In. 55A 47 Total Horiz. Clear 55B Rt. Lat Clearance 48 98 Ft. 9 In. Maximum Span Length 308 Ft. 1 In. Left Lat Clearance 49 Structure Length 38 50A Navigation Control Left Curb/Sidewalk Width Nav Vertical Clear 39 50B Right Curb/Sidewalk Width 40 Nav Horizontal Clear 51 Curb to Curb Br. Width Nav. Pier Protection Deck Width (Out-Out) 111 52 Nav. Cl. Vert. Clear 53 Vert.Clearance Over Deck





COUNTY: HOLT BRIDGE: A1906 2 REVIEW STATUS: APPROVED NBI STATUS: T

RECORD TYPE: 2ND RTE THAT GOES 'UNDR'S RUN DATE: 1/26/2023 SUBMITTAL YEAR: 2022

	LOAD RATING AND POSTING INFORMATION	MATERIAL/CONSTRUCTION INFORMATION
31 41 63 64 65 66 70 75B 76 94 95 96 97 36B 36C 36C 67 68 69 71 72	Design Load Structure Status Oper. Rating Meth. Operating Rating Inventory Rating Meth Inventory Rating Meth Inventory Rating Bridge Posting Code PROPOSED IMPROVEMENT INFORMATION Sufficiency Rating Deficiency Rating Funding Eligibility Proposed Work Work Done By New Struc Length Struc Improve Cost Roadway Improve Cost Total Project Cost Year of Cost Estimates APPRAISAL RATING INFORMATION Br. Rail App. Rating Transition Rail App. Rating Approach Rail App. Rating Struc Eval App. Rating Struc Eval App. Rating Deck Geometry App. Rating Underclearance App. Rating Waterway Adeq. App. Rating	43A Main Struc. Mat type STEEL CONTINUOUS 43B Main struc Constr. Type STRINGER/MULTIBEAM - GRD 45
68 69 71 72	Deck Geometry App. Rating Underclearance App. Rating	93C Special Inspection Date BORDER BRIDGE INFORMATION 98 Neighboring State Code 98B Neighboring State % Respon
	APPROVED POSTING INFORMATION	99 Neighboring State Struc. No. FIELD POSTING INFORMATION
	Approved Posting Category	Field Posting Category
	Ton1 Ton2 Ton3 Tonnage Values for Posting Sign General Text for Posting Sign	Ton1 Ton2 Ton3 Tonnage Values for Posting Sign General Text for Posting Sign

DistrictAbbr = NW and Design_No = a1906 and County = ANDREW, ATCHISON, BUCHANAN, CALDWELL, CARROLL, CHARITON, CLINTON, DAVIESS, DEKALB, GENTRY, GRUNDY, HARRISON, HOLT, LINN, LIVINGSTON, MERCER, NODAWAY, PUTNAM, SULLIVAN, WORTH and Inventory_Appraisal_Submittal_Year = 2022 Page: 2





COUNTY: HOLT A1906 2 REVIEW STATUS: APPROVED T **BRIDGE:** NBI STATUS: 2022 ROUTE CARRIED 'ON' STRUCT 1/26/2023 **RECORD TYPE: SUBMITTAL YEAR:** RUN DATE: GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION State ROUTE CARRIED 'ON' STRUCT MISSOURI 5A Record Type HIS District 5B NWRoute Signing Prefix MAINLINE HOLT County 5C Designated Level of Service Federal ID No. 1596 00059 8 5D Route Number 1972 NOT APPLICABLE 27 Year Built 5E Directional Suffix US 59 S 1994 106 7 Year Reconstructed Facility Carried YES HIGHWAY Type of Service On 12 Base Hwv. Network STATE HIGHWAY AGENCY 0000005879 Structure Maintenance 13A LRS Inventory Route No. STATE HIGHWAY AGENCY 00 22 Structure Owner 13B Subroute No. 33 NO MEDIAN ON FREE ROAD Br. Median Code Toll Status 20 06-RURAL MINOR ARTERIAL 37 Historical Significance NOT ELIGIBLE FOR NR OF HP 26 Functional Classification NONE EXISTS 101 28A Parallel Struc Desg Lanes on Structure NOT TEMPORARY Temporary Structure 103 RTE NOT A DEFENSE HWY 100 STRAHNET Designation NBIS Bridge Length YES NOT ON NHS 104 National Highway System NOT APPLICABLE 105 Federal Lands Highway 110 Designated Nat. Network STRUCTURE LOCATION INFORMATION STRUCTURE TRAFFIC INFORMATION 918 4 Place UNION AADT 29 74680 2021 Code 30 AADT Year 2-WAY TRAFFIC S 2 T 62 N R 40 W Location 102 Direction of Traffic 11 Milepoint 27.57 miles 24% 109 **AADT Truck Percent** 16 Latitude 40 D 12 M 28 S 1239 114 Future AADT 17 Longitude 95 D 22 M 28 S 2041 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION 10 99 Ft. 99 In. IS 29 Inventory Rte. Vert. Clear Features Intersected 42B HIGHWAY 19 50.00 miles Type of Service Under By pass Detour Length 28B Lanes Under Structure 04 32 Approach Roadway Width 21 Ft. 12 In. HIGHWAY 15.00 Degrees 54A 34 Vert. Clearance Ref. Skew 54B Vert. Clearance 35 Struct. Flared 17 Ft. 1 In. Rt. Lat Clear Ref. HIGHWAY 34 Ft. 1 In. 55A 47 Total Horiz. Clear 55B Rt. Lat Clearance 30 Ft. 2 In. 48 98 Ft. 9 In. Maximum Span Length 308 Ft. 1 In. Left Lat Clearance 38 Ft. 9 In. 49 Structure Length N/A 38 Navigation Control 50A 0 Ft. 0 In. Left Curb/Sidewalk Width Nav Vertical Clear 0 Ft. 0 In. 39 50B 0 Ft. 0 In. Right Curb/Sidewalk Width 0 Ft. 0 In. 34 Ft. 1 In. 40 Nav Horizontal Clear 51 Curb to Curb Br. Width 36 Ft. 9 In. Nav. Pier Protection Deck Width (Out-Out) 111 52 Nav. Cl. Vert. Clear 99 Ft. 99 In. 53 Vert.Clearance Over Deck





COUNTY: HOLT BRIDGE: A1906 2 REVIEW STATUS: APPROVED NBI STATUS: T

RECORD TYPE: ROUTE CARRIED 'ON' STRUCT RUN DATE: 1/26/2023 SUBMITTAL YEAR: 2022

RECORD TYPE: ROUTE CARRIED ON STRUCT	RUN DATE: 1/20/2025 SUBMITTAL TEAR: 2022
LOAD RATING AND POSTING INFORMATION	MATERIAL/CONSTRUCTION INFORMATION
LOAD RATING AND POSTING INFORMATION 31 Design Load H 15 41 Structure Status OPEN NO RESTRICTIONS 63 Oper. Rating Meth. ALLOWABLE STRESS 64 Operating Rating 36 Tons. 65 Inventory Rating Meth ALLOWABLE STRESS 66 Inventory Rating 22 Tons. 70 Bridge Posting Code => LEGAL LOADS PROPOSED IMPROVEMENT INFORMATION Sufficiency Rating Deficiency Rating STRUCTURAL Funding Eligibility FULL 75A Proposed Work REPLACEMENT SUBSTND LOAD	MATERIAL/CONSTRUCTION INFORMATION 43A Main Struc. Mat type STEEL CONTINUOUS 43B Main struc Constr. Type STRINGER/MULTIBEAM - GRD 45 # of Main Spans 3 44A Appr Struc. Mat type STEEL 44B Appr Struc. Cnstr. type STRINGER/MULTIBEAM - GRD 46 # of Approach Span 1 107 Deck Mat/Constr. 1 CONCRETE CIP 108A Wear Surf Mat/Constr. 4 LOW SLUMP 108B Membrane Mat/Constr. 1 BUILT UP 108C Deck Protect Mat/Constr. 7 INTERNALLY SEALED CONDITION RATING INFORMATION
75B Work Done By Contract 76 New Struc Length 337 Ft. 11 In. 94 Struc Improve Cost \$ 1,960,000 95 Roadway Improve Cost \$ 196,000 96 Total Project Cost \$ 2,940,000 97 Year of Cost Estimates 2023	Superstructure Cond. Rating 3
APPRAISAL RATING INFORMATION 36A Br. Rail App. Rating DOES NOT MEET ACCEPT STND 36B Transition Rail App. Rating DOES NOT MEET ACCEPT STND 36C Approach Rail App. Rating MEETS ACCEPTBLE STND 36D Rail End Treat. App. Rating DOES NOT MEET ACCEPT STND 67 Struc Eval App. Rating 3 68 Deck Geometry App. Rating 6 69 Underclearance App. Rating 9 71 Waterway Adeq. App. Rating N 72 Approach Road App. Rating 4 113 Scour Assess App. Rating N	90 Gen. Insp Date 8 / 22 91 Gen. Insp. Frequency 24 Months 92A Frac. Critical Inspection N Months 93A Frac. Critical Insp. Date 92B Underwater Inspection N Months 93B Underwater Insp. Date 92C Special Inspection Y Months 24 93C Special Inspection Date 8 / 22 BORDER BRIDGE INFORMATION 98 Neighboring State Code 98B Neighboring State % Respon
APPROVED POSTING INFORMATION	99 Neighboring State Struc. No. FIELD POSTING INFORMATION
Approved Posting Category S-1 Ton1 Ton2 Ton3	Field Posting Category S-1 Ton1 Ton2 Ton3
Tonnage Values for Posting Sign General Text for Posting Sign NO POSTING REQUIRED	Tonnage Values for Posting Sign General Text for Posting Sign NO POSTING REQUIRED

DistrictAbbr = NW and Design_No = a1906 and County = ANDREW, ATCHISON, BUCHANAN, CALDWELL, CARROLL, CHARITON, CLINTON, DAVIESS, DEKALB, GENTRY, GRUNDY, HARRISON, HOLT, LINN, LIVINGSTON, MERCER, NODAWAY, PUTNAM, SULLIVAN, WORTH and Inventory Appraisal Submittal Year = 2022 Page: 2





COUNTY: HOLT A1906 2 REVIEW STATUS: APPROVED T **BRIDGE:** NBI STATUS: 1 RTE THAT GOES 'UNDER' S 2022 1/26/2023 **RECORD TYPE: SUBMITTAL YEAR:** RUN DATE: GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION State 1 RTE THAT GOES 'UNDER' S Code: A MISSOURI 5A Record Type District 5B NWRoute Signing Prefix MAINLINE HOLT County 5C Designated Level of Service 00029 Federal ID No. 1596 8 5D Route Number 1972 NOT APPLICABLE 27 Year Built 5E Directional Suffix US 59 S 106 0 7 Year Reconstructed Facility Carried HIGHWAY Type of Service On 12 Base Hwv. Network Structure Maintenance 13A LRS Inventory Route No. 22 Structure Owner 13B Subroute No. 33 ON FREE ROAD Br. Median Code Toll Status 20 01-RU PRINCIPL ARTRIAL-IS 37 Historical Significance 26 Functional Classification 101 NONE EXISTS Parallel Struc Desg 28A Lanes on Structure NOT TEMPORARY Temporary Structure 103 ON A DEFENSE HWY 100 STRAHNET Designation NBIS Bridge Length ON NHS 104 National Highway System 105 Federal Lands Highway YES 110 Designated Nat. Network STRUCTURE LOCATION INFORMATION STRUCTURE TRAFFIC INFORMATION 6348 4 Place UNION AADT 29 74680 2021 Code 30 AADT Year 1-WAY TRAFFIC S 2 T 62 N R 40 W Location 102 Direction of Traffic 11 Milepoint 30.78 miles 34% 109 **AADT Truck Percent** 16 Latitude 40 D 12 M 28 S 114 Future AADT 17 Longitude 95 D 22 M 28 S 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION IS 29 10 17 Ft. 1 In. Inventory Rte. Vert. Clear Features Intersected 42B HIGHWAY 19 50.00 miles Type of Service Under By pass Detour Length 28B Lanes Under Structure 02 32 Approach Roadway Width 54A 34 Vert. Clearance Ref. Skew 54B Vert. Clearance 35 Struct. Flared Rt. Lat Clear Ref. 34 Ft. 1 In. 55A 47 Total Horiz. Clear 55B Rt. Lat Clearance 48 98 Ft. 9 In. Maximum Span Length 308 Ft. 1 In. Left Lat Clearance 49 Structure Length 38 50A Navigation Control Left Curb/Sidewalk Width Nav Vertical Clear 39 50B Right Curb/Sidewalk Width 40 Nav Horizontal Clear 51 Curb to Curb Br. Width Nav. Pier Protection Deck Width (Out-Out) 111 52 Nav. Cl. Vert. Clear 53 Vert.Clearance Over Deck



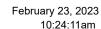


COUNTY: HOLT BRIDGE: A1906 2 REVIEW STATUS: APPROVED NBI STATUS: T

RECORD TYPE: 1 RTE THAT GOES 'UNDER' S RUN DATE: 1/26/2023 SUBMITTAL YEAR: 2022

	LOAD RATING AND POSTING INFORMATION	MATERIAL/CONSTRUCTION INFORMATION
31 41 63 64 65 66 70 75B 76 94 95 96 97 36B 36C 36C 67 68 69 71 72	Design Load Structure Status Oper. Rating Meth. Operating Rating Inventory Rating Meth Inventory Rating Meth Inventory Rating Bridge Posting Code PROPOSED IMPROVEMENT INFORMATION Sufficiency Rating Deficiency Rating Funding Eligibility Proposed Work Work Done By New Struc Length Struc Improve Cost Roadway Improve Cost Total Project Cost Year of Cost Estimates APPRAISAL RATING INFORMATION Br. Rail App. Rating Transition Rail App. Rating Approach Rail App. Rating Struc Eval App. Rating Struc Eval App. Rating Deck Geometry App. Rating Underclearance App. Rating Waterway Adeq. App. Rating	43A Main Struc. Mat type STEEL CONTINUOUS 43B Main struc Constr. Type STRINGER/MULTIBEAM - GRD 45
68 69 71 72	Deck Geometry App. Rating Underclearance App. Rating	93C Special Inspection Date BORDER BRIDGE INFORMATION 98 Neighboring State Code 98B Neighboring State % Respon
	APPROVED POSTING INFORMATION	99 Neighboring State Struc. No. FIELD POSTING INFORMATION
	Approved Posting Category	Field Posting Category
	Ton1 Ton2 Ton3 Tonnage Values for Posting Sign General Text for Posting Sign	Ton1 Ton2 Ton3 Tonnage Values for Posting Sign General Text for Posting Sign

DistrictAbbr = NW and Design_No = a1906 and County = ANDREW, ATCHISON, BUCHANAN, CALDWELL, CARROLL, CHARITON, CLINTON, DAVIESS, DEKALB, GENTRY, GRUNDY, HARRISON, HOLT, LINN, LIVINGSTON, MERCER, NODAWAY, PUTNAM, SULLIVAN, WORTH and Inventory_Appraisal_Submittal_Year = 2022 Page: 2





COUNTY: HOLT N0811 REVIEW STATUS: APPROVED T **BRIDGE:** NBI STATUS: 2022 ROUTE CARRIED 'ON' STRUCT 1/26/2023 **RECORD TYPE: SUBMITTAL YEAR: RUN DATE:** GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION ROUTE CARRIED 'ON' STRUCT State MISSOURI 5A Record Type MO District 5B NW Route Signing Prefix MAINLINE HOLT County 5C Designated Level of Service T0000 7272 8 Federal ID No. 5D Route Number 1962 NOT APPLICABLE 27 Year Built 5E Directional Suffix RT T E 106 0 7 Year Reconstructed Facility Carried NO HIGHWAY Type of Service On 12 Base Hwv. Network STATE HIGHWAY AGENCY Structure Maintenance 13A LRS Inventory Route No. STATE HIGHWAY AGENCY 22 Structure Owner 13B Subroute No. 33 NO MEDIAN ON FREE ROAD Br. Median Code Toll Status 20 07-RURAL MAJOR COLLECTOR 37 Historical Significance NOT ELIGIBLE FOR NR OF HP 26 Functional Classification NONE EXISTS 101 28A Parallel Struc Desg Lanes on Structure NOT TEMPORARY Temporary Structure 103 RTE NOT A DEFENSE HWY 100 STRAHNET Designation NBIS Bridge Length YES NOT ON NHS 104 National Highway System NOT APPLICABLE 105 Federal Lands Highway 110 Designated Nat. Network STRUCTURE LOCATION INFORMATION STRUCTURE TRAFFIC INFORMATION 102 4 Place LEWIS AADT 29 41798 2021 Code 30 AADT Year 2-WAY TRAFFIC S 4 T 59 N R 38 W Location 102 Direction of Traffic 11 Milepoint 2.31 miles 10% 109 **AADT Truck Percent** 16 Latitude 39 D 57 M 12 S 133 114 Future AADT 17 Longitude 95 D 10 M 4 S 2041 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION 10 99 Ft. 99 In. MILL CR Inventory Rte. Vert. Clear Features Intersected 42B WATERWAY 19 20.00 miles Type of Service Under By pass Detour Length 28B Lanes Under Structure 00 32 Approach Roadway Width 20 Ft. 0 In. 20.00 Degrees 54A Vert. Clearance Ref. N/A 34 Skew 54B Vert. Clearance 0 Ft. 0 In. 35 Struct. Flared Rt. Lat Clear Ref. N/A 20 Ft. 0 In. 55A 47 Total Horiz. Clear 55B Rt. Lat Clearance 0 Ft. 0 In. 48 69 Ft. 11 In. Maximum Span Length 173 Ft. 11 In. Left Lat Clearance 0 Ft. 0 In. 49 Structure Length PERMIT NOT REQ Navigation Control 50A 0 Ft. 0 In. Left Curb/Sidewalk Width Nav Vertical Clear 0 Ft. 0 In. 39 50B 0 Ft. 0 In. Right Curb/Sidewalk Width 0 Ft. 0 In. 20 Ft. 0 In. 40 Nav Horizontal Clear 51 Curb to Curb Br. Width 22 Ft. 4 In. Nav. Pier Protection Deck Width (Out-Out) 111 52 Nav. Cl. Vert. Clear 99 Ft. 99 In. 53 Vert.Clearance Over Deck





COUNTY: HOLT BRIDGE: N0811 REVIEW STATUS: APPROVED NBI STATUS: T

RECORD TYPE: ROUTE CARRIED 'ON' STRUCT RUN DATE: 1/26/2023 SUBMITTAL YEAR: 2022

RECORD TYPE: ROUTE CARRIED ON STRUCT	RUN DATE: 1/20/2025 SUBMITTAL TEAR: 2022
LOAD RATING AND POSTING INFORMATION	MATERIAL/CONSTRUCTION INFORMATION
31 Design Load	MATERIAL/CONSTRUCTION INFORMATION 43A Main Struc. Mat type STEEL CONTINUOUS 43B Main struc Constr. Type STRINGER/MULTIBEAM - GRD 45 # of Main Spans 3 44A Appr Struc. Mat type 000 44B Appr Struc. Cnstr. type 000 46 # of Approach Span 0 107 Deck Mat/Constr. 1 CONCRETE CIP 108A Wear Surf Mat/Constr. 6 BITUMINOUS 108B Membrane Mat/Constr. 0 NONE 108C Deck Protect Mat/Constr. 7 INTERNALLY SEALED CONDITION RATING INFORMATION
75A Proposed Work REHAB-GENERAL DETERIORAT 75B Work Done By Contract 76 New Struc Length 206 Ft. 8 In. 94 Struc Improve Cost \$732,000 95 Roadway Improve Cost \$73,000	58 Deck Cond. Rating 3 59 Superstructure Cond. Rating 6 60 Substructure Cond. Rating 6 61 Channel /Channel Protection Cond. Rating 6 62 Culvert Cond. Rating N
96 Total Project Cost \$ 1,098,000 97 Year of Cost Estimates 2023	INSPECTION INFORMATION
APPRAISAL RATING INFORMATION 36A Br. Rail App. Rating DOES NOT MEET ACCEPT STND 36B Transition Rail App. Rating DOES NOT MEET ACCEPT STND 36C Approach Rail App. Rating DOES NOT MEET ACCEPT STND 36D Rail End Treat. App. Rating DOES NOT MEET ACCEPT STND 67 Struc Eval App. Rating 5 68 Deck Geometry App. Rating 4 69 Underclearance App. Rating N 71 Waterway Adeq. App. Rating 8 72 Approach Road App. Rating 8 113 Scour Assess App. Rating 8	90 Gen. Insp Date 11 / 21 91 Gen. Insp. Frequency 24 Months 92A Frac. Critical Inspection N Months 93A Frac. Critical Insp. Date 92B Underwater Inspection N Months 93B Underwater Insp. Date 92C Special Inspection N Months 93C Special Inspection Date BORDER BRIDGE INFORMATION 98 Neighboring State Code 98B Neighboring State % Respon 99 Neighboring State Struc. No.
APPROVED POSTING INFORMATION	FIELD POSTING INFORMATION
Approved Posting Category S-1 Ton1 Ton2 Ton3 Tonnage Values for Posting Sign General Text for Posting Sign NO POSTING REQUIRED	Field Posting Category S-1 Ton1 Ton2 Ton3 Tonnage Values for Posting Sign General Text for Posting Sign NO POSTING REQUIRED
1.12.2.33.11.13.11.12.11.11.12	1.0 1 00 III.0 REQUIRED

DistrictAbbr = NW and Design_No = n0811 and County = ANDREW, ATCHISON, BUCHANAN, CALDWELL, CARROLL, CHARITON, CLINTON, DAVIESS, DEKALB, GENTRY, GRUNDY, HARRISON, HOLT, LINN, LIVINGSTON, MERCER, NODAWAY, PUTNAM, SULLIVAN, WORTH and Inventory_Appraisal_Submittal_Year = 2022 Page: 2





COUNTY: ATCHISON R0274 REVIEW STATUS: APPROVED T **BRIDGE:** NBI STATUS: 2022 ROUTE CARRIED 'ON' STRUCT 1/26/2023 **RECORD TYPE: SUBMITTAL YEAR: RUN DATE:** GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION ROUTE CARRIED 'ON' STRUCT State MISSOURI 5A Record Type MO District 5B NW Route Signing Prefix MAINLINE ATCHISON County 5C Designated Level of Service 8235 0000F 8 Federal ID No. 5D Route Number 1962 NOT APPLICABLE 27 Year Built 5E Directional Suffix RT F S 106 0 7 Year Reconstructed Facility Carried NO HIGHWAY Type of Service On 12 Base Hwv. Network STATE HIGHWAY AGENCY Structure Maintenance 13A LRS Inventory Route No. STATE HIGHWAY AGENCY 22 Structure Owner 13B Subroute No. 33 NO MEDIAN ON FREE ROAD Br. Median Code Toll Status 20 08-RURAL MINOR COLLECTOR 37 Historical Significance NOT ELIGIBLE FOR NR OF HP 26 Functional Classification NONE EXISTS 101 28A Parallel Struc Desg Lanes on Structure NOT TEMPORARY Temporary Structure 103 RTE NOT A DEFENSE HWY 100 STRAHNET Designation NBIS Bridge Length YES NOT ON NHS 104 National Highway System NOT APPLICABLE 105 Federal Lands Highway NO 110 Designated Nat. Network STRUCTURE LOCATION INFORMATION STRUCTURE TRAFFIC INFORMATION 4 Place **POLK** AADT 29 58700 2021 Code 30 AADT Year ONE LANE BRIDGE FOR 2-WAY S 9 T 66 N R 40 W Location 102 Direction of Traffic 11 Milepoint 2.48 miles 109 **AADT Truck Percent** 16 Latitude 40 D 32 M 44 S 107 114 Future AADT 17 Longitude 95 D 27 M 0 S 2041 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION 6 ROCK CR 10 99 Ft. 99 In. Inventory Rte. Vert. Clear Features Intersected 42B WATERWAY 19 124.38 miles Type of Service Under By pass Detour Length 28B Lanes Under Structure 00 32 Approach Roadway Width 20 Ft. 0 In. 40.00 Degrees 54A Vert. Clearance Ref. N/A 34 Skew 54B Vert. Clearance 0 Ft. 0 In. 35 Struct. Flared Rt. Lat Clear Ref. N/A 20 Ft. 0 In. 55A 47 Total Horiz. Clear 55B Rt. Lat Clearance 0 Ft. 0 In. 48 60 Ft. 0 In. Maximum Span Length 153 Ft. 10 In. Left Lat Clearance 0 Ft. 0 In. 49 Structure Length PERMIT NOT REQ 38 Navigation Control 50A 0 Ft. 0 In. Left Curb/Sidewalk Width Nav Vertical Clear 0 Ft. 0 In. 39 50B 0 Ft. 0 In. Right Curb/Sidewalk Width 0 Ft. 0 In. 20 Ft. 0 In. 40 Nav Horizontal Clear 51 Curb to Curb Br. Width 22 Ft. 4 In. Nav. Pier Protection Deck Width (Out-Out) 111 52 Nav. Cl. Vert. Clear 99 Ft. 99 In. 53 Vert.Clearance Over Deck





COUNTY: ATCHISON BRIDGE: R0274 REVIEW STATUS: APPROVED NBI STATUS: T

RECORD TYPE: ROUTE CARRIED 'ON' STRUCT RUN DATE: 1/26/2023 SUBMITTAL YEAR: 2022

RECORD TYPE: ROUTE CARRIED 'ON' STRUCT	RUN DATE: 1/26/2023 SUBMITTAL YEAR: 2022
LOAD RATING AND POSTING INFORMATION	MATERIAL/CONSTRUCTION INFORMATION
LOAD RATING AND POSTING INFORMATION 31 Design Load H 15 41 Structure Status POSTED FOR LOAD 63 Oper. Rating Meth. LOAD FACTOR 64 Operating Rating 24 Tons. 65 Inventory Rating Meth LOAD FACTOR 66 Inventory Rating 14 Tons. 70 Bridge Posting Code 20.0-29.9% BELOW PROPOSED IMPROVEMENT INFORMATION Sufficiency Rating Poeficiency Rating STRUCTURAL Funding Eligibility FULL 75A Proposed Work REPLACEMENT SUBSTND LOAD 75B Work Done By Contract	MATERIAL/CONSTRUCTION INFORMATION 43A Main Struc. Mat type STEEL CONTINUOUS 43B Main struc Constr. Type STRINGER/MULTIBEAM - GRD 45 # of Main Spans 3 44A Appr Struc. Mat type 000 44B Appr Struc. Cnstr. type 000 46 # of Approach Span 0 107 Deck Mat/Constr. 1 CONCRETE CIP 108A Wear Surf Mat/Constr. 1 MONO CONCRETE 108B Membrane Mat/Constr. 0 NONE CONDITION RATING INFORMATION 58 Deck Cond. Rating 4 59 Superstructure Cond. Rating 6
76	Superstructure Cond. Rating 5
APPRAISAL RATING INFORMATION 36A Br. Rail App. Rating DOES NOT MEET ACCEPT STND 36B Transition Rail App. Rating DOES NOT MEET ACCEPT STND 36C Approach Rail App. Rating DOES NOT MEET ACCEPT STND 36D Rail End Treat. App. Rating DOES NOT MEET ACCEPT STND 67 Struc Eval App. Rating 4 68 Deck Geometry App. Rating 5 69 Underclearance App. Rating N 71 Waterway Adeq. App. Rating 7 72 Approach Road App. Rating 8 113 Scour Assess App. Rating 5	90 Gen. Insp Date 9/21 91 Gen. Insp. Frequency 24 Months 92A Frac. Critical Inspection N Months 93A Frac. Critical Insp. Date 92B Underwater Inspection N Months 93B Underwater Insp. Date 92C Special Inspection N Months 93C Special Inspection Date BORDER BRIDGE INFORMATION 98 Neighboring State Code 98B Neighboring State % Respon 99 Neighboring State Struc. No.
APPROVED POSTING INFORMATION	FIELD POSTING INFORMATION
Approved Posting Category S-4 Ton1 Ton2 Ton3 Tonnage Values for Posting Sign General Text for Posting Sign CENTERLINE OF BRIDGE.	Field Posting Category S-4 Ton1 Ton2 Ton3 Tonnage Values for Posting Sign General Text for Posting Sign CENTERLINE OF BRIDGE.

DistrictAbbr = NW and Design_No = r0274 and County = ANDREW, ATCHISON, BUCHANAN, CALDWELL, CARROLL, CHARITON, CLINTON, DAVIESS, DEKALB, GENTRY, GRUNDY, HARRISON, HOLT, LINN, LIVINGSTON, MERCER, NODAWAY, PUTNAM, SULLIVAN, WORTH and Inventory_Appraisal_Submittal_Year = 2022 Page: 2

September 09, 2022 7:57:59AM

Missouri Department of Transportation State Bridge Inspection Report

COUNTY: HOLT DISTRICT: NW CLASS: STATBR FED-ID: 1596 BRIDGE: A1906

GENERAL STRUCTURE INFORMATION ***BRIDGE INSPECTION INFORMATION*** ROUTE: US59S # **SPANS**: 4 PLACE CODE: 74680 UNION **DATE:** 08/23/2022 **RESPONSIBILITY: BRIDGEDIV** FEATURE: IS 29 LANES ON: 2 LENGTH: 308 FT 0 IN FREQUENCY: 24 CALCULATED INTERVAL**: 18 **LANES UNDER: 4** STATUS: A-OPEN MAXIMUM SPAN: 98 FT 10 IN **TEAM LEADER: CURT RICKERSON ELEMENT: NO LOG MILE: 27.407 COMPASS DIRECTION: NORTH to SOUTH** APPROACH ROADWAY: 22 FT 0 IN **INSPECTOR 2:** KEVIN WEGENER **INSPECTOR 4: DETOUR:** 50.00 MILES **DIRECTION OF TRAFFIC: 2-WAY TRAF CURB TO CURB: 34 FT 0 IN INSPECTOR 3:** NHS: NO **FUNCTIONAL CLASS: RL-MINOR ARTERIAL OUT TO OUT:** 36 FT 10 IN ** When calculated interval exceeds the frequency, a justification comment per BIRM is required. **BUILT:** 1972 **NBI OWNER: MODOT AADT:** 918 **GENERAL INSPECTION COMMENTS REHAB:** 1994 **NBI MAINTAINED: MODOT** AADT YEAR: 2021 (SHUNAT1, 02/08/2021)--INSPECTION WAS THE RESPONSIBILITY OF BRIDGE MAINTENANCE DISTRICT: NW LOCATION: S 2 T 62 R 40 W **AADT TRUCK: 24.1%** DIVISION AND WAS DONE LATE BECAUSE OF STATEWIDE COVID TRAVEL **LATITUDE:** 40 12 27.54 (DMS) MAINTENANCE COUNTY: HOLT **FUTURE AADT: 1239** RESTRICTIONS THAT WERE IN PLACE AT MODOT FOR APPROXIMATELY ONE **LONGITUDE:** 95 22 27.96 (DMS) SUB AREA: 7A20 **FUTURE AADT YEAR: 2041** YEAR ***INDEPTH INSPECTION INFORMATION*** ***FRACTURE CRITICAL INSPECTION INFORMATION*** DATE: RESPONSIBILITY: **CATEGORY: CATEGORY:** DATE: **RESPONSIBILITY: FREQUENCY: CALCULATED INTERVAL**: NBI**: **FREQUENCY: CALCULATED INTERVAL**: NBI**: **TEAM LEADER: INSPECTOR 3: METHOD: TEAM LEADER: INSPECTOR 3: METHOD: INSPECTOR 2: 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*** **CATEGORY: DATE:** 08/23/2022 **CATEGORY: PIN PLATES DATE: RESPONSIBILITY: BRIDGEDIV** RESPONSIBILITY: FREOUENCY: FREOUENCY: 24 CALCULATED INTERVAL**: 18 **NBI:** YES CALCULATED INTERVAL**: **NBI**: TEAM LEADER: RANDY WEAVER **INSPECTOR 3: METHOD:** LADDER, BUCKET **TEAM LEADER: INSPECTOR 3: METHOD:** TRK **INSPECTOR 2: 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. SPECIAL INSPECTION COMMENTS **UNDERWATER INSPECTION COMMENTS** (WEAVER1, 08/23/2022)--PINS TESTED GOOD 8-23-22 (SHUNAT1, 02/08/2021)--INSPECTION WAS THE RESPONSIBILITY OF BRIDGE DIVISION AND WAS DONE LATE BECAUSE OF STATEWIDE COVID TRAVEL RESTRICTIONS THAT WERE IN PLACE AT MODOT FOR APPROXIMATELY ONE YEAR (WEAVER1, 08/22/2018)--PINS SHOT GOOD AT 40 DBS OTHER SPECIAL INSPECTIONS OTHER UNDERWATER INSPECTIONS **CATEGORY** FREQUENCY NBI CALCULATED INTERVAL RESPONSIBILITY **METHOD** DATE **FREQUENCY CATEGORY** NBI CALCULATED INTERVAL RESPONSIBILITY **METHOD**

MoDOT

MoDOT

Missouri Department of Transportation State Bridge Inspection Report

September 09, 2022 7:57:59AM

COUNTY: HOLT DISTRICT: NW CLASS: STATBR FED-ID: 1596 **BRIDGE: A1906**

STRUCTURE POSTING

APPROVED CATEGORY: S-1

NO POSTING REQUIRED

Ton 1:

Ton 2:

COMMENTS:

FIELD CATEGORY: S-1

COMMENTS:

NO POSTING REQUIRED

Ton 1:

Ton 2:

Ton 3:

Ton 3:

PROBLEM:

PROBLEM DIRECTION:

GENERAL COMMENTS/MAJOR RATED ITEMS GENERAL COMMENTS: (BOWDEJ1, 03/06/2008)--(67'-99'-99'-3') CONT. PL. GDR. - (37') SIMPLE PL. GDR. (NON-COMP)

[ITEM 58] DECK: 3-SERIOUS CONDITION

RATING: 08/21/2018

COMMENTS: (TALKEM1, 11/23/2011)--MANY CRACKS TOP DECK

(WEAVER1, 09/13/2018)--DECK LOWERED TO 3-SERIOUS DUE TO OPEN MAP CRACKING & SEVERE DETERIORATION @ BENT 4 JOINT AREA

[ITEM 59] SUPER: 3-SERIOUS CONDITION

RATING: 08/23/2022

COMMENTS: (MUSSED, 09/17/2012)--SUPERSTRUCTURE RATING LOWERED TO 7 DUE TO RUST WITH NO NOTEWORTHY SECTION LOSS.

(MUSSED, 08/29/2014)--SUPERSTRUCTURE RATING LOWERED TO "6" DUE TO MINOR BULGING OF PIN PLATES AT SPAN 4.

(WEAVER1, 08/23/2022)--RATING LOWERED TO 3-SERIOUS DUE TO SEVERE SECTION LOSS IN GIRDER 3 @ ABUTMENT 5. BOTTOM OF WEB & VERTICAL

STIFFNER WITH SEVERAL HOLES OVER BEARING.

SEVERE SECTION LOSS OF STRUTURAL STEEL AFFECTING LOAD CAPACITY.

BLOCKING IN STALLED AND FAR COMPLETED 8-23-22.

[ITEM 60] SUB: 5-FAIR CONDITION

RATING: 02/08/2021

COMMENTS: (WEAVER1, 08/21/2018)--SUBSTRUCTURE LOWERED TO 6-SATISFACTORY BECAUSE ABUTMENT 1 HAS LARGE AREAS OF SPALLS WITH REBAR

EXPOSED IN TOP OF CAP & SHALLOW DELAMINATIONS THROUGHOUT CAP

[ITEM 61] BANK/CHANNEL: N-NOT APPLIC NO WATRWAY

RATING: 05/18/2001

COMMENTS:

[ITEM 113] SCOUR: N-NOT APPLIC NOT WATERW **COMMENTS:**

RATING: 05/18/2001

EVALUATION TYPE:

[ITEM 71] WATERWAY ADEQUACY: NOT APPLICABLE

RATING: 05/18/2001

COMMENTS:

[ITEM 72] APPRRDWY ALIGNMENT: 4-POOR

COMMENTS:

RATING: 07/19/2004

RAILING AND APPROACH PAVEMENT COMPONENTS AND RATINGS

[ITEM 36A] BRIDGE RAILING RATING: DOESNT MEET CURRNT STND-0

RATING: 01/09/2007

MATERIAL ALUMINUM

CONSTRUCTION CIRCULAR TUBE

DIRECTION BOTH

COMMENTS

(MENEET, 08/23/2019)--8' SECTION MISSING IN SPAN 3

COMMENTS:

REINFORCED CONCRETE

PARAPET

BOTH

REINFORCED CONCRETE

MATERIAL GALVANIZED STEEL **CURB**

CONSTRUCTION

W-BEAM

BOTH

COMMENTS:

[ITEM 36B] TRANSITION RAILING RATING: DOESN'T MEET CURRN'T STND-0

DIRECTION ALL

COMMENTS

RATING: 01/09/2007

DistrictAbbr = NW and Design No = a1906 and County = HOLT

MODOT

Missouri Department of Transportation State Bridge Inspection Report

September 09, 2022 7:57:59AM

COUNTY: HOLT DISTRICT: NW CLASS: STATBR FED-ID: 1596 BRIDGE: A1906

[ITEM 36C] APPROACH RAILING RATING: MEETS CURRENT STANDARDS-1

RATING: 05/18/2001 **DIRECTION**

MATERIAL

[ITEM 36D] RAIL END TREATMENT RATING: DOESN'T MEET CURRN'T STND-0

CONSTRUCTION

COMMENTS

RATING: 01/09/2007

GALVANIZED STEEL

W-BEAM

ALL

COMMENTS:

COMMENTS:

MATERIAL

CONSTRUCTION

DIRECTION

GALVANIZED STEEL

TURN DOWN SECTION > 45

ALL

COMMENTS

APPROACH PAVEMENT: *Overall condition assigned for each approach pavemenet component is shown below.

MATERIAL ASPHALT/CONCRETE **CONSTRUCTION**

DIRECTION

CONDITION* COMMENTS

CONDITION

BITUMINOUS MAT/SLAB **BOTH** LOCATION 1

LOCATION 2

SEVERITY

COMMENT

DETERIORATION DRIVING SURFACE HEAVY

(MENEET, 03/21/2012)--NORTH APPROACH BREAKING UP.

(MENEET, 08/23/2019)--NEEDS REPAIRED

DRAINAGE, EXPANSION DEVICES, BANK/SLOPE, AND DECK PROTECTIVE COMPONENTS

DECK PROTECTIVE COMPONENTS:

SERIES TYPE-# **COMPONENT**

WEARING SURFACE

MATERIAL PLAIN CONCRETE **CONSTRUCTION** LOW SLUMP

THICKNESS 2.25 IN

YEAR APPLIED MANUFACTURE

OVERALL CONDITION

VERY POOR

COMMENT:

APPROACH SERIES-1

CONDITION MAP CRACKS LOCATION 1 RANDOM

LOCATION 2

SEVERITY MANY

COMMENT

DECK PROTECTION

LIQUID SEALANT

INTERNALLY SEALED

2009

PAVON INDECK

PAVON INDECK

COMMENT: (BOWDEJ1, 01/09/2007)--INDECK 2006

MEMBRANE

LIQUID SEALANT

BUILT-UP

COMMENT:

MAIN SERIES-2

WEARING SURFACE

PLAIN CONCRETE

LOW SLUMP

2.25 IN

VERY POOR

COMMENT:

CONDITION MAP CRACKS LOCATION 1 RANDOM

LOCATION 2

SEVERITY MANY

COMMENT

DECK PROTECTION

LIQUID SEALANT

INTERNALLY SEALED

2009

COMMENTS

COMMENT:

MEMBRANE

LIQUID SEALANT

BUILT-UP

COMMENT:

DRAINAGE COMPONENTS:

COMPONENT DRAINAGE

MATERIAL REINFORCED CONCRETE **CONSTRUCTION** CURB OUTLET

DIRECTION

DRAINAGE REINFORCED CONCRETE

DRAIN BASIN-END BENT

DistrictAbbr = NW and Design No = a1906 and County = HOLT

September 09, 2022 7:57:59AM

Missouri Department of Transportation State Bridge Inspection Report

COUNTY: HOLT DISTRICT: NW CLASS: STATBR FED-ID: 1596 BRIDGE: A1906

EXPANSION DEVICE COMPONENTS:
SUB UNIT-# SUB LABEL

SUB LABEL COMPONENT

CLOSED EXPANSION JOINT

YEAR APPLIED

GAP

MANUFACTURE

<u>OVERALL CONDITION</u> POOR

COMMENT:

MODOT

ABUTMENT-1

ABUTMENT-5 CLOSED EXPANSION JOINT

ELASTOMERIC COMPRESSION SEAL

UNKNOWN

(MENEET, 03/21/2012)--THROUGHOUT TOP SLAB.

UNKNOWN

POOR

COMMENT:

BANK/SLOPE PROTECTION COMPONENTS:

<u>COMPONENT</u> SLOPE PROTECTION <u>MATERIAL</u> PLAIN CONCRETE <u>CONSTRUCTION</u> PAVEDSLOPE <u>DIRECTION</u> BOTH

_

COMMENTS

DECK COMPONENTS

CONSTRUCTION

COMPRESSION SEAL

SPAN TYPE-#	<u>COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	COMMENTS
MAIN SPANS-1	DECK	REINFORCED CONCRETE	CAST-IN-PLACE	

CONDITIONLOCATION 1LOCATION 2SEVERITYMEASUREMENTCOMMENTEFFLORESCENCEBOTTOMFEW

MATERIAL

ELASTOMERIC

MAP CRACKSDRIVING SURFACEMANYTRANSVERSE CRACKSBOTTOMMANYTRANSVERSE CRACKSTHROUGHOUTMANY

MAIN SPANS-2 DECK 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>

EFFLORESCENCEBOTTOMFEWMAP CRACKSDRIVING SURFACEMANYTRANSVERSE CRACKSBOTTOMMANYTRANSVERSE CRACKSTHROUGHOUTMANY

MAIN SPANS-3 DECK REINFORCED CONCRETE CAST-IN-PLACE

CONDITIONLOCATION 1LOCATION 2SEVERITYMEASUREMENTCOMMENTEFFLORESCENCEBOTTOMFEW

MAP CRACKSDRIVING SURFACEMANYMAP CRACKSTHROUGHOUTMANYTRANSVERSE CRACKSBOTTOMMANYTRANSVERSE CRACKSTHROUGHOUTMANY

APPROACH SPANS-4 DECK REINFORCED CONCRETE CAST-IN-PLACE

CONDITION LOCATION 1 LOCATION 2 SEVERITY MEASUREMENT COMMENT

EFFLORESCENCE **BOTTOM FEW** MANY MAP CRACKS **DRIVING SURFACE** MAP CRACKS THROUGHOUT MANY REBAR EXPOSED **EDGE MODERATE EDGE SPALLS MODERATE** TRANSVERSE CRACKS **BOTTOM** MANY TRANSVERSE CRACKS THROUGHOUT MANY

SUPERSTRUCTURE COMPONENTS

MODOT **COUNTY: HOLT DISTRICT: NW CLASS: STATBR FED-ID: 1596 BRIDGE: A1906** SERIES TYPE-# MATERIAL CONSTRUCTION **COMMENTS** SPAN TYPE **LABEL** APPROACH SERIES-1 SIMPLE SPAN STEELPLATE GIRDERS **LENGTH COMPOSITE INDICATOR WEATHERING STEEL COMMENTS** <u>SPAN</u> 41 FT 3 IN APPROACH SPANS-4 COMPOSITE NO **CONDITION LOCATION 1 LOCATION 2 SEVERITY MEASUREMENT COMMENT** PACK RUST MINOR **ENDS** RUSTING **BOTTOM FLANGE** MINOR (MENEET, 03/10/2015)--ALL SPANS --- BOTTOM FLANGES OF STRINGERS AND WEBS --MINOR SURFACE RUST SECTION LOSS DIAPHRAGMS **MODERATE** MAIN SERIES-2 CONTINUOUS SPAN STEELPLATE GIRDERS **LENGTH COMPOSITE INDICATOR WEATHERING STEEL COMMENTS** <u>SPAN</u> MAIN SPANS-1 COMPOSITE 68 FT 8 IN NO **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY MEASUREMENT COMMENT** PACK RUST **DIAPHRAGMS MODERATE** (SHUNAT1, 02/08/2021)--ABUTMENT 1 ENDS OF GIRDERS W/ MODERATE PACK RUST MINOR PACK RUST **ENDS MODERATE RUSTING** THROUGHOUT MINOR (MENEET, 03/10/2015)--ALL SPANS --- BOTTOM FLANGES OF STRINGERS AND WEBS --MINOR SURFACE RUST MAIN SPANS-2 COMPOSITE 98 FT 10 IN NO **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY MEASUREMENT COMMENT** RUSTING **BOTTOM FLANGE** MINOR (MENEET, 03/10/2015)--ALL SPANS ---- BOTTOM FLANGES OF STRINGERS AND WEBS ---MINOR SURFACE RUST **MINOR RUSTING** DIAPHRAGMS (MENEET, 03/10/2015)--@ PIN CONNECTED --- BENT #4 --- SURFACE RUST **RUSTING THROUGHOUT** MINOR COMPOSITE MAIN SPANS-3 NO 98 FT 10 IN **CONDITION LOCATION 1** LOCATION 2 **SEVERITY MEASUREMENT COMMENT RUSTING BOTTOM FLANGE MINOR** (MENEET, 03/10/2015)--ALL SPANS ---- BOTTOM FLANGES OF STRINGERS AND WEBS ---MINOR SURFACE RUST **RUSTING THROUGHOUT MINOR**

				***SUBSTRUCTU	JRE COMPONENTS**	**	
SUBSTRUCTURE	<u>SKEW</u>	LENGTH	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>LABEL</u> <u>COMMENT</u>	<u>S</u>	
ABUTMENT-1	LA-15 DEGREES	35 FT 3 IN	REINFORCED CONCRETE	<i>NON-INTEGRAL</i>			
	CONDITION		<u>LOCATION 1</u>	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
<u>ASSOCIAT</u>	ED COMPONENT	<u>MAT</u>	<u>TERIAL</u>	<u>CONSTRUCTION</u>			
BEAM CA	P	REII	NFORCED CONCRETE	CAST-IN-PLACE			
	CONDITION		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	MEASUREMENT	<u>COMMENT</u>
	DELAMINATION		CAP FACE		MODERATE		
	HORIZONTAL CRAC	KS	THROUGHOUT		OPEN		
	LEACHING		THROUGHOUT		MINOR		
	SEALED		BEAM CAP		ASPHALTICBASE		
	SPALLS		CAP FACE		MODERATE		(SHUNAT1, 02/08/2021)REBAR EXPOSED
	VERTICAL CRACK	S	RANDOM		FEW		
PILING		STE	EL	H-SHAPE			
	CONDITION		<u>LOCATION 1</u>	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
TURNED I	BACK WINGS	REII	NFORCED CONCRETE	CAST-IN-PLACE			
	CONDITION		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	MEASUREMENT	<u>COMMENT</u>
CURTAIN	WALL	REII	NFORCED CONCRETE	CAST-IN-PLACE			

	COUNTY: HOLT	DISTRICT: NW	CLASS: STATBR	-	D: 1596	BRIDGE: A1906
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
EXI	PANSION BEARING	STEEL	ROCKER			
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	PACK RUST	THROUGHOUT		HEAVY		
	RUSTING	THROUGHOUT		HEAVY		(CHINIATI 02/00/2021) COVERED W/MATERIAL
DA	TIPPED	THROUGHOUT	CAST-IN-PLACE	TO MAX		(SHUNAT1, 02/08/2021)COVERED W/ MATERIAL
BA	CKWALL <i>Condition</i>	REINFORCED CONCRETE <u>LOCATION 1</u>	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT
	SHOVING	THROUGHOUT	<u>LOCATION 2</u>	<u>SEVERITI</u> MINOR	MEASUREMENT	COMMENT
	SHOVING	THROUGHOUT		WIINOK		
BENT-2	LA-15 DEGREES	35 FT 3 IN REINFORCED CONCRETE	MULTIPLE COLUMN			
22.,12	CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
ASS	SOCIATED COMPONENT	MATERIAL	CONSTRUCTION			
	AM CAP	REINFORCED CONCRETE	CAST-IN-PLACE			
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	MEASUREMENT	<u>COMMENT</u>
CO	LUMN	REINFORCED CONCRETE	CAST-IN-PLACE	·	· · · · · · · · · · · · · · · · · · ·	
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	MEASUREMENT	<u>COMMENT</u>
FOO	OTING	REINFORCED CONCRETE	H-PILE			
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	MEASUREMENT	<u>COMMENT</u>
EXI	PANSION BEARING	STEEL	ROCKER			
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	RUSTING	THROUGHOUT		MINOR		
BENT-3	LA-15 DEGREES	35 FT 3 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>
	SOCIATED COMPONENT	<u>MATERIAL</u>	<u>CONSTRUCTION</u>			
BEA	AM CAP	REINFORCED CONCRETE	CAST-IN-PLACE	CELEBREN	ME (CURE) (E) (E)	COMMENT
	<u>CONDITION</u>	LOCATION 1	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT
	HORIZONTAL CRACK			FEW		
CO	VERTICAL CRACK LUMN	S RANDOM REINFORCED CONCRETE	CAST-IN-PLACE	MANY		
CO.	CONDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT
FO	OTING	REINFORCED CONCRETE	H-PILE	SLV ERITT	MEZISCREMENT	COMMENT
100	CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
FIX	KED BEARING	STEEL	PEDESTAL(ROTATING)	<u>SE, ERIT</u>	THE IS CITED IN	
1 123	<u>CONDITION</u>	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
	00112111011	<u>========</u>	<u>========</u>	<u> </u>		
BENT-4	LA-15 DEGREES	35 FT 3 IN REINFORCED CONCRETE	MULTIPLE COLUMN			
	<u>CONDITION</u>	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
<u>ASS</u>	SOCIATED COMPONENT	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	_ 		
	AM 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>
CO	LUMN	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>
FOO	OTING	REINFORCED CONCRETE	H-PILE			
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
EXI	PANSION BEARING	STEEL	ROCKER	~		
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	RUSTING	AT BEAM CAP	HANGED DI ATTIONS	MINOR		
FIX	KED BEARING	STEEL LOCATION 1	HANGER PLATE/PIN	CEI/EDITY	MEACHDEMENT	COMMENT
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT

MoDOT

MODOT

Missouri Department of Transportation State Bridge Inspection Report

September 09, 2022 7:57:59AM

COUNTY: HOLT DISTRICT: NW CLASS: STATBR FED-ID: 1596 BRIDGE: A1906 MODERATE (MENEET, 03/21/2012)--CAUSING PLATE TO BULGE SLIGHTLY. PACK RUST RANDOM ABUTMENT-5 LA-15 DEGREES 35 FT 3 IN REINFORCED CONCRETE NON-INTEGRAL **CONDITION** LOCATION 1 **LOCATION 2 SEVERITY** MEASUREMENT COMMENT ASSOCIATED COMPONENT **CONSTRUCTION MATERIAL** BEAM CAP REINFORCED CONCRETE CAST-IN-PLACE **CONDITION LOCATION 1 LOCATION 2 SEVERITY** MEASUREMENT COMMENT SEALED BEAM CAP ASPHALTICBASE STEEL PILING H-SHAPE **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY** MEASUREMENT COMMENT TURNED BACK WINGS REINFORCED CONCRETE CAST-IN-PLACE **CONDITION LOCATION 1 LOCATION 2 SEVERITY** MEASUREMENT COMMENT REINFORCED CONCRETE **CURTAIN WALL** CAST-IN-PLACE **CONDITION LOCATION 1** LOCATION 2 **SEVERITY** MEASUREMENT **COMMENT EXPANSION BEARING** STEEL ROCKER **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY** MEASUREMENT COMMENT PACK RUST **MODERATE THROUGHOUT RUSTING** THROUGHOUT **HEAVY** BACKWALL REINFORCED CONCRETE CAST-IN-PLACE **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY** MEASUREMENT COMMENT ***OVER/UNDER ROUTES CLEARANCE INFORMATION*** CLEARANCES OVER DECK **NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance. **VERTICAL CLEARANCE TYPE** VALUE DIRECTION DATE COMMENT** CLEARANCES UNDER BRIDGE **NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance. RECORD# **ROUTE** # LANES **DIRECTION OF TRAFFIC** RIGHT LATERAL CLEARANCE LEFT LATERAL CLEARANCE UR-ID 3729 IS 29 S 1-WAY TRAF 30 FT 4 IN 38 FT 10 IN **VERTICAL CLEARANCE TYPE**** VALUE DIRECTION DATE **COMMENT ACTUAL** 17 FT 1 IN 08/27/2018 RECORD# **DIRECTION OF TRAFFIC** RIGHT LATERAL CLEARANCE **ROUTE** # LANES LEFT LATERAL CLEARANCE <u>UR-ID</u> 3730 IS 29 N 1-WAY TRAF 30 FT 4 IN 38 FT 10 IN **VERTICAL CLEARANCE TYPE** VALUE DIRECTION DATE COMMENT** 17 FT 5 IN

08/27/2018

ACTUAL

September 09, 2022 7:57:59AM

Missouri Department of Transportation State Bridge Inspection Report

COUNTY: HOLT DISTRICT: NW CLASS: STATBR FED-ID: 1596 BRIDGE: A1906

CONDITION: RUST AMOUNT: 4=10% OF SURFACE RUSTED STEEL TONS: 105 POOR

CONTRACT REPAINT

DEPARTMENT REPAINT

PAINT TYPE: PAINT TYPE: MANUFACTURE: PAINT TYPE: B SYSTEM NAME: NAME: **NAME:** BASIC LEAD CHROMIUM **SURFACE PREP:**

PAINT COLOR: PAINT COLOR: PAINT COLOR: ALUMINUM PAINT YEAR: PAINT YEAR: PAINT YEAR: 1975

MILS: MILS: MILS: 6

REQUESTED WORK ITEMS

GENERAL WORK COMMENTS:

ORIGINAL PAINT

MODOT

RESPONSIBILITY	<i>LOCATION</i>	ITEM	CATEGORY	PRIORITY	DATE	WORK ITEM COMMENT
DISTRICT ROUTINE	SOUTH	REPAIR EROSION	SLOPE	1	09/09/2016	
DISTRICT ROUTINE	APPROACH ROADWAY	SHAVE SHOULDERS -DRAINAGE	APPROACH	2	08/21/2018	
REGIONAL	ENTIRE BRIDGE	OVERCOAT CALC. SULFONATE	PAINT	2	08/21/2018	
DISTRICT SPECIAL	SEE COMMENT	REPLACE EXPANSION DEVICE	EXPANSION DEVICE	2	08/21/2018	(BOWDEJ1, 12/30/2009)BOTH FAILING
DISTRICT ROUTINE	ROADWAY SURFACE	REPAIR CONCRETE>1000 SF	DECK	2	08/21/2018	
DISTRICT ROUTINE	SEE COMMENT	CLEAN AND FLUSH	SUBSTRUCTURE	2	08/21/2018	(STEPHS2, 11/18/2013)ABUTMENT 1 AND 5
DISTRICT SPECIAL	ABUTMENT-BEARINGS	CLEAN, PAINT, AND RESET	SUBSTRUCTURE	2	08/21/2018	
DISTRICT SPECIAL	AT JOINTS	REPAIR CONCRETE>100 SF	DECK	2	08/21/2018	
·	·	<u> </u>	J. J. J. T. TERN		CITA IDAMO	1.4.4.

UTILITY ATTACHMENTS

UTILITY **OWNER METHOD MEASUREMENT TYPE** UTILITY ATTACHMENT COMMENT **NUMBER VALUE**

PROGRAM NOTES INFORMATION

PROJECT# MONTH LET YEAR LET **ITEMS COMMENT YEAR**

COMPUTER GENERATED RATINGS AND DEFICIENCY ITEMS		***ADVANCED S	SIGN INFORMATION*	·*
sted in this section are updated whenever computer edits are ran on a structure after the inspection updates have been entered in to TMS.	SIGN #	SIGN TYPE	PROBLEM	PROBLEM DIRECTION

NOTE: The items listed Rated Item Rating **Rating Date**

COMPUTER GENERATED RATINGS AND DEFICIENCY ITEMS

3-BASICALLY INTOL CORRECT 8/25/2022 [Item 67] Structure Evaluation Rating: 3/19/2019 [Item 68] Deck Geometry Rating: 6-EQ TO PRESENT MIN CRITR [Item 69] Underclearance: 5/18/2001 9-SUPR TO PRES DESIRABLE **Sufficiency Rating:** 19.5% 8/25/2022

\$1,960,062

\$2,940,093

STRUCTURAL 10/3/2018 **Deficiency: Funding Eligibility: FULL** 338 FT. **Estimated New Structure Length:**

Estimated Total Project Cost: 2022 **Year of Cost Estimate:** 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.

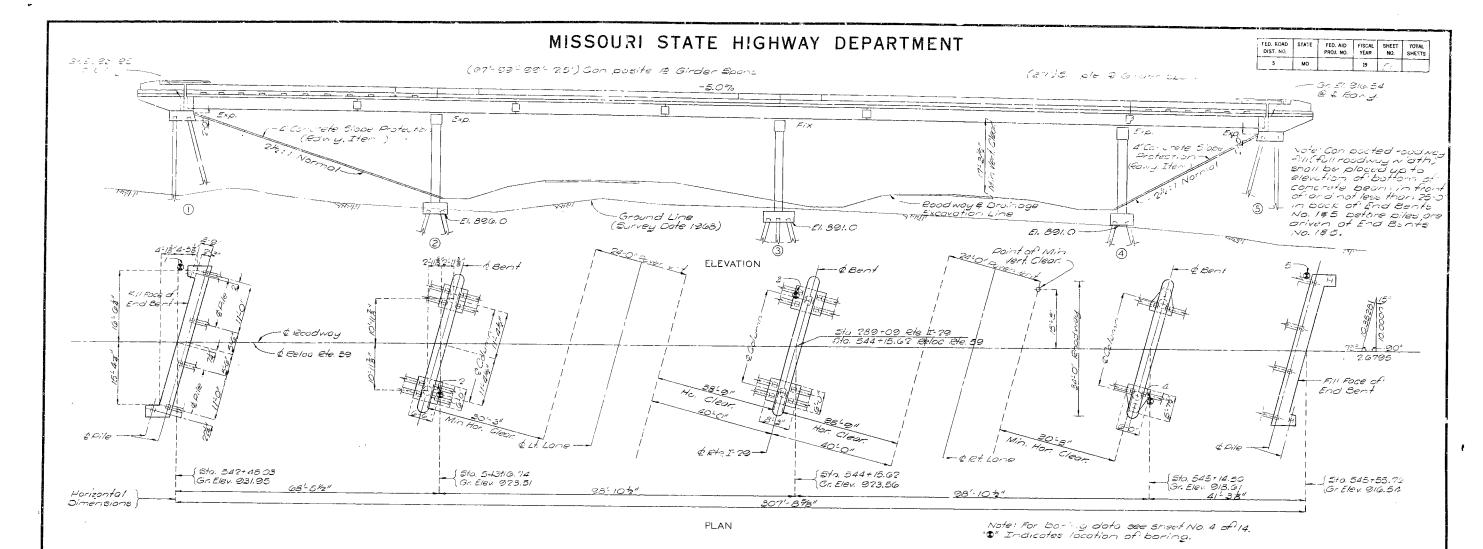
OUTFALL INSPECTION INFORMATION

OUTFALLS: INSPECTOR:

STATUS: DATE:

NOTES:

Estimated Structure Cost:



Note: Minimum clearance to reinforcing steel shall be

ESTIMATED QUANTITIES					
).TEM		SUBSTR.	SUPERSTR.	TOTAL	
Closs I Excavation	Su Yd.	85		63	
Structural Steel Pile (10")	Lin.Ft.	3/30		2,130	
Glass & Concrete	Cu. Yd.	142.0		142.0	
Class Bl Concrete	Cu.Yd.	i	310.0	310.0	
Reinfricing Steet	Lb.	26520	78480	105,000	
Fobr cated Structural Carbon Steel	16.		175,230	175 280	
Fubricaled Structural Low Alloy Steel	16.		28,950	28.950	
Pointing (2 Coats)	Ton		101.6	1018	
Bridge Eall (One Tube)	Lin F.		049	649	

DESIGNED DEC. 19 70BY FROM DETAILED MOY 197/ BY BOVVOEN CHECKED May 1977 BY Elici

GENERAL NOTES:

Design Specifications: A.A.S.H.O. - 1969.

Design Looding:

H15-44 15#/sq.ft. Future Wearing Surface Earth 120# Equivalent Fluid Pressure 30# Fatigue Stress : Cose II

Design Uni: 5tresses:

Closs & Concrete (substructure) fc = 1,200 ps: Closs & Concrete (superstructure) fc = 1,600 ps: Reinforcing Steel fs = 20,000 ps:

Structural Steel +5 = 20,000,05/ Structural Steel A5 = 20,000,05/ Structural Steel (A5.T.M. A-572-66) Grade 50 f5 = 27,000 Steel Piles fb. = 9,000,05/ Fabricated Steel:

Field connections, High Strength Bolts \$4"\$, holes \$160 except as noted, Point: Shop, one coat red lead, in accordance with Std. Spect 192.12 and 1045.4 or 1045.5, surface of shear connectors and top surface of upper girder flonge plates in contact with convrete shall not be painted.

Field, two coats by contractor, first cout prown, second cout aluminum in accordance with Std. Spect 19218.

All concrete and re-inforcement in end posts, parapets and curbs is included with experstructure quentities.

quentities.

Poyweight to thibricated steel will be bused on welded field splices regardless of type used.

Hil rentorcing back in top of substructure begins or caps shall be spaced to dear anchor boils for bearings by at least left.

Sheet No. / of /4.

PILE DATA								
BENT NO.		1	2	3	4	5		
Dile Type and Size	_	HP10×42	HP10×42	HPIO×42	HPIOX42	HD10×42		
Number		6	ප	10	6	6		
Approximate Length	F+.	112	87	83	83	100		
Design Bearing	Tons	34	45	45	54			
Hommer Energy require	ed Ft. Lbs	12,100	11,300	14300	12,600	.2,4.00		

Minimum energy requirement of hommer bosed on plan length and design bearing value of piles.
All pile shou be driven to practical refusal.

3.M. Elev. 916.64 Top Iron Pin 183.8' Rt. 5-3 540-605 (e-e 59) Geod. 6to = 205 U 5.6 E Doturs (1929 Adj.)

BRIDGE UNDER RELOCATED ROUTE 59

STATE ROAD FROM MOUND CITY TO NORTH OF CRAIG

ABOUT I MILE NORTH OF CRAIG.

PROJECT NO. 1-29-2(70) RTE. 1-29 STA. 289+09.00

HOLT

COUNTY

SUBMITTED BY W A Carry DATE 6. 36.72 APPROVED BY Robert M. Hunter DATE 6-26-72

STD 611 60 STD.70630 A-1906

3

Note: This drawing is not to scale. Follow aimensions

MARK	DIMENSION	S JET AT T WA	ARK T		DIMENSIONS	. 7	-1,-1	
UNO. LOCATION	Z A G B C D E	E H K CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	0.				ACTUAL LENGTH WEIGHT	STANDARD HOOKS STIRRUP H
NO SIZE MARK	A STANDARD OF THE STANDARD OF	FT. IN. FT IN. FT IN. FT IN. FT. IN. LBS. 02 17	ARK	O E. C.	CDDE	F H K Z	N N N N	Detailing fook Detailing 6 dor
BENT NO 1		Z on	Σ	O O O S Z FT IN	FT. IN. FT. IN. FT. (N.	FT IN FT. IN. FT IN. FT.	V FT IN LB	
4 6H1 BEAM	17 X 19 7.000	20 3 20 3 122		++++				25"Min 180° 90° 01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2 6H2 BEAM	20 x 36 7.500	36 8 36 8 110 15 50	133 BEAM 1	3 S x 2 5.000	3 6.000 2 5.000 3 6.000	12 1	0 12 6 1	Size of 100 DEG Hooks All Grades
4 6H3 BEAM 6 4H4 BACK WALL	18 X 36 7.500 20 X 37 6.500		1	3 S x 19.000	3 6.000 19.000 3 6.000	1 1 1	1 1	
2 6H5 BACK WALL	20 X 37 6.500		1	3 S X 2 5.000 3 S X 19.000	3 10.250 2 5.000 3 10.250 3 10.250 19.000 3 10.250			END HOOK DIMETISIONS STIRRUP HOOK 100 BAR BAR CRADES 40-
4 6H6 BEAM	17 x 7.8 3.750			3 S X 2 2.50)	3 6.000 3 2.500 3 6.000		1 11 7 1	SIZE GRADE 40 ALL GRADES BAR D 90° HOCH
6 6H7 WING	20 X V 2 13 7-000 7 4-000		1		3 10.250 2 2.500 3 10.250		2 12 10	#3 5" 23" 6" SIZE (1/7) AOC G
4 6H8 WING	20 x 14 9.000) S A 12.000	6.000 2 5.000 9.125	1 1	5 3 3	7 #5 7" 42" 10" #4 2" 42"
6 6H9 WING	20 X V 2 13 7.000	13 / 13 /	BENT NO 3	x 12.000	9,1725	- 19 4	0 10 0 =	33
7NCR. = 37.500 IN	7 4.000	7 4 7 4 94 12 804		x 8 0.000		В	8 0 2	#8 10" 7" 16" Note: Unless othe
4 of 1 WING	15 X 12.125 4 1.000 12.125 9.500	7.500 9.500 7.500 6 1 6 0 36 4 803		x 5 9.000		5	1 1	12 #10 13" 9" 22" diarneter Dis
4 6F2 WING	15 X 12-125 5 4-000 12-125 7-500	4 801		x 5 6.000	3 6.000 7 3.000	14		48 #14 2'2" 202" 2'7"
2 6T1 CURTAIN WALL 2 6T2 WING	19 x 5 7.500 3 1.000 25 x 22.000 11 0.875 2 0.000	d 9 8 7 26 40 3P3		X 2 3.000		7		
5 913 MING	25 X 22.000 11 0.875 2 0.000 25 X 22.000 11 0.875 2 0.000	4 1.000 10 3.500 14 11 14 10 45 36 11V1	17 COLUMN 20	X 23 0.000		23_1	23 0 43	Note, All standard Hooks and Bends o
2 6T4 CURTAIN WALL	19 X 5 6.500 3 7.000		16 BEAM 20	x 22 9.000				Note: Hocks and hands shall have a
16 4U1 BEAM	13 S X 2 9.000 2 8.500 3 3.000 2 8.000		IB BEAM 20	X 32 3.000		l	1 22 9 1 1 1 32 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1	With the procedures as shown on th
14 4U2 BEAM 19 4U3 BEAM	10 S . 6.000 2 9.000 13 S X 2 9.000 3 0.750 3 3.00G 3 0.250		! !	X 32 3.000		32		dimensions shown in Lending diagr
5 7U4 BEAM	11 X 5 1.000 2 9.000 4 4.000	12 10 2 7 160 8 11H2 12 2 11 10 121 8 7H1		X 15 2.000			16 4 6	Payweights are based on Actua
4 4U5 CURTAIN XALL	10 S X 2 7.500 6.000	5 9 5 7 15 4 1142	1	X 3 10.000 X 17 2.000	2 5.000	8 1	18 4 39	*~ bar is included in substructure
5 706 SEAM 4 407 CURTAIN WALL	14 X 5 1.000 2 6.000 4 3.625	4 2.000 13.000 11 11 11 8 119 4 11H2		x 18 0.000		13 2	1 1	
	3 1.000 5.000	6 8 6 6 17 1 501			3 9.000 2 3.500 3 9.000	1 1 1		3 between dimensions shown on this line the following line.
70 5V1 BACKWALL	20 X 6 4-000	6 4 6 4 462 3 401		S X 2 3.500	4 1.250 Z 3.500 4 1.250 6.000 Z 6.000	13 10	3 4	No. Ea. ~ Number of bors of each
44 4V2 WING INCR. = 4.125 IN.	20 x V 4 z 0.000				3 9.000 2 6.000 3 9.000	13 6	i "	* All hooks and bends for shape N
8 5V3 HING	20 X 6 9.000		1 1	000.cs x 2	1 1	11 16	11 6 16	8
2 4V4 CURTAIN WALL	20 x 5 2.000	6 9 6 9 56 19 5021 5 2 5 4 7 14 5022		S X 2 6.000 S X 20.000	1.250 2 6.000 4 1.250 4 1.250 20.000 4 1.250	14 3		С к к
2 6V5 BEAM 8 5V6 WING	20 X 3 2.000	3 2 3 2 10 10 2WI		X 12,000	9,125	12 7	12 3 17	F3 F3 C1-7 ~-44
2 4V8 CURTAIN HALL	20 X 6 9.000 20 X 5 1.000	6 9 6 9 56						
2 6V9 BEAN	20 X 2 9.000		l	x 4 0.000	3 3.000 18.000	8 0	1	s
10 2W1 BEAM	22 x 12.000 9125	19 9 19 9 35 32 3P2		x 2 3.000		7 9	7 9 9:	SHAPE AS SHAPE OS SHAPE
20 10D1 FOOTING	20 x 5 0.000			X 17 8.000			17 8 84	<u>B</u>
	15 X 3 0.000 14.000	7 2 6 10 82 2 6H18	B BEAM 20	X 32 3.000			-	B c B c B 0
8 6D3 FOOTING	10 X 3 3.000 14.000	7 8 7 4 88 8 11119		X 32 3.000 X 32 3.000		32 3	32 3 91 32 3 1371	B 9 H K C F
40 3P1 COLUMN 20 10V16 COLUMN	16 X 2 3.000 20 X 22 7.000		3 8EAM 7		5.000	8 11		SHAPE 12* SHAPE 135 SHAPE 14
		22 7 22 7 1944 4 10H26		X 16 8.000			17 9 306	A SHAPE 17 7 B Vertical H B STATE AND LEGG
	20 x 22 9.000 .	22 9 22 9 196 4 10H29		X 14 6.000 X 18 0.000		15 7		A SHAPE 18 7G) LILLIAN CARRELES TE
	17 X 15 8.000 20 X 32 3.000	17 8 17 8 240 10 2WI			9.125	9 9		
	20 X 32 3.000 20 X 32 3.000		1 1	s x	6.000 2 5.000	3 5	1	•
4 11H20 BEAM	17 X 15 2.000	32 3 32 3 1371 12 5u25			0.000 2 5.000 3 0.000		11 6 144	
4 9423 85		16 5028			0.000 19.000 3 0.000 4.250 2 5.000 3 4.250	10 2	1	B B Lertical B O H B
4 9H22 BEAM 8 7H23 BEAM	17 X 18 0.000 7 X 3 10.000 2 5.000		BEAM 33	S X 19.000	4.250 19.000 3 4.250	10 11	ſ	HE C CHILL
	3,000	8 11 8 11 146 13 4U32	BEAM 10	s x	6.000 2 5.000	3 5	3 3 28	SHAPE 24 SHAPE 25 SHAPE 265 SHA

MISSOURI STATE HIGHWAY DEPARTMENT

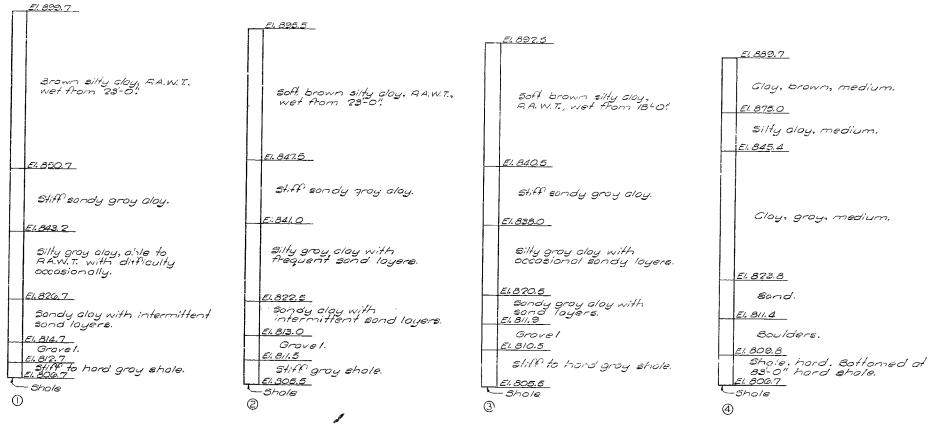
MARK					l	DIMENSIONS				NOMINAL LENGTH ACTUAL	王			ARK i			Ш				DIMENSION	S			417-	T	٦		·
g No.	LOCATION	Zaa		T 6			- 1	.,	la la	\$ 2 P	NGT RE	8	j N	0.	100471041	N	oz	-		T	7	T		T	- 35 SE	<u> </u>	STANDARD HOOKS	CTIONS	JP HOQKS
. = &!	LOCATION	PR FSET	m B	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	U U	E FT. IN. FT	·	<u></u>	<u> </u>	5 - 8	<u>₹</u>	"	2 1	ž	LOCATION	1APE	FS T	5 B	C	D	E	F	l H	K	NOMINAL LENGTH ACTUAL LENGTH	WEIGH		31 IKKU	IL HONV2
N S;ZE		FISIN	FT IN.	FT. IN.	FT IN	FT. IN. FT	T. IN. F1	T IN	FT. IN.	FT. IN. FT.	IN LB	s. S	SIZE	A.		A I		S ET TN	FT. IN	ET TN	ET IN	ET TAI	5 T TN				Detailing Yook Detailing Dimension For G Dimension	600	Frain E
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	T NO 5	╁╼┼╌├╌		 	+	 							-+		SUPERSTR. CON					-	 		ļ	ļ	ļļ	ļ	22"MIN. 100 90 g	Aoro	3 3 22 7 3
2 6H2 BEA		1 1 1			+	 					- 1	ll l				77.	+++		-		-	ļ			 	 	Size of 1800E6 Hooks All Grades	0.00 (20 0) 50	" 135°
4 6H3 BEA		18 X	36 7.500	1	 					38 C 38		il.	14 5C			10	}++	5-001	0 12.750	13.500					3 9 3 5	2198		#8 EBecm	LE Beam
	K WALL	20 X	37 6.500		1	├				37 7 37		151	60 5C	2 C	URB	10	!	j	13.250	13.500	-			ļ	3 4 3 1	193		re STIR	RUPS
	K WALL	20 X	37 6.500	1						37 7 37		13	8 6C		URB	20		14 9.400	0		ļ			ļ	14 9 14 9	177	END HOOK DIMENSIONS		OK DIMENSIONS
4 6HB HIN	6	20 X	- 14 9.000		· 	ļ				14 9 14		89	8 60	4 C	URB	20	\Box	34 5.000	0						34 5 34 5	414	BAR CRADE 43 ALL CRADES		40-50-60 Ks/
4 6H14 BEAF		17 X	18 0.000			ļ				18 8 18	8 1	12	8 5C	5 C	URB	20	1	50 0.000	<u> </u>	<u> </u>	ļ				50 0 50 0	417	I SIZE	348 D	OOK HOOK APPROX
4 6HLO BEAN	н	17 X	19 8.000	<u> </u>	ļ					20 4 20	4 1	- 22	_8 5 <u>C</u>	r C	U^ 8	20		51 0.000	0	<u> </u>	L			Ĺ	51 0 51 0	426	#3 5" 23" 6"		OF G A OF G H
6 6H11 H1NG	<u> </u>	70 X V	2 14 3.000	·		ļ		<u>-</u>		14 3 14	3		4 2	7 CI	URB	20		37 8.000	<u>c j</u>						37 8 37 8	295		#3 /2" 4 #4 2"	$4''$ $4''$ $2_2''$ $4_2''$ $3''$
INCE	R. = 36.500 IN.		B 2.00C		·			-		8 2 8	2 1	.01	_	_		\perp											#6 8" 54" (2"		G'' $5_{2}^{T''}$ $3_{3}^{T''}$
6H12 WING	3	20 X V	2 14 0.000	ļ	+					16 0 14	0	_#_	8 5R	1 E	ND POST	20	Ш.	4 9.000	0						4 9 4 9	40	#7 9" 64" 14" #8 10" 7" 16"	#6 3" (G'' 5_{2}^{1} 3_{2}^{1} G_{2}^{2} G_{2}^{2} G_{2}^{2}
INCR	R. = 48.000 IN.	$\vdash \vdash \vdash \vdash \vdash$	5 0.000		ļ	ļ				£ 0 6	0	90	4 5R	2 E/	1209 GM	10	Ш		2 8.129	9.000					6 1 5 10	24		Note: Unless d	otherwise noted
				ļ	 							ᆀ_	4 5R	3 E1	ND POST	10			2 10.500	9.000					6 6 6 3	26	*10 13" 9" 22"	diameter D	is the same is and hooks
6F3 WING	;	15 X	12.125	4 1.000	12.125	9.500	7.500	9.500	7.500	6 1 6	0	36	4 5R4	4 Et	ND POST	10			3 . 000	9.000					6 11 6 8	28	#11 14" 10" 2.0"	on a bar.	J DING HOOKS
6F4 WING	i	15 X	12, 125	5 4.000	12.125	7.500	9.500	7.500	9.500	7 4 7	4	44	4 5R	5 EN	ND POST	10			3 2.000						7 1 6 10		1 14 2 2 2° 20 2° 2' 7"		
ET5 CURT	TAIN WALL	19 X	6 1.000	3 2.000				<u>_</u>		5 3 9	1	27	4 5R		ND POST	10			3 2.750		T				7 3 7 0	29	1 (
T6 WING	<u>, </u>	25 x	22.000	10 8.250	2 0.000		3	2.000 1	0 2.500	14 6 14	5	43	4 5R		ND POST	10	T		3 3,375	9,000					7 4 7 1	20	Note: All Standard Hoo. 180 DEG. to be bent wi.	ks and Benc	s other than
T7 CURT	AIN WALL	19 X	5 3.000	ì	1				7	5 10 B		26	4 5R8		ND POST	10		T	3 +.250						7 6 7 3	30	for 90 DEG. Standard I	u same pro looks.	nceaure as
ST8 WING		25 X		9 11.375	1		2	0.000	9 9.000			42	9 5R9		NO POST	12	11	T	3 4.625								Note: Hooks and hende		accordance
													1		ND POST	10	$\top\!$	<u> </u>		T					7 6 7 3		1 WITH THE DESCRIPTION O	ie shown de	a this short
4U1 BEAM	,	13 S X	2 9.000	2 8.500	3 3.000	2 8.000				12 2 11	11 1	!!	20 361	LO E	ND PUST	10			4 9.000	7.750					10 2 9 11	105	Nominal Lengths of	pre baseci or Dendina dii	noroms and
J2 BEAM		10 S X		6.000	1 '					3 9 3		_1 _	= 4 50;			1.11		†	<u> </u>	 							dimensions shown in	utors use.	
4U3 BEAM		13 S X	2 9-000	3 0.750		3 C.250				12 10 12			54 5R1	T	AKAPEI	112	- + + -	2 0.375			 				5 4 5 2	8524		osec on Ho	tual Lengths.
U4 BEAM		11 X	1 2 7000	5 1.000						12 2 11		-71 —	34 5R1			10	+	6.000	19.50	8.500					4 5 4 1	145	5~ stirrup. X~ bor is included	in substruc	ture quantities
US CURT		10 S X		2 7.500		4.000				5 9 5		-	6 5RI			20	++-	10 8.000	}						10 8 10 8	178	X~ bor is included Length ~ Total leng	gths are me	asured along
6 BEAM		14 X	5 , 000	2 6.000				2.000				- [발	8 5R1			20	+	56 7.000	1	 					56 7 56 7	472	V~ bar dimensions	varu in sou	al increments
	AIN HALL		3 1.000				- 1	2.000	13.500	11 11 11	9 1	71	5R1 کو	\neg		20	++-	10 9.000	-						10 9 . 3 9	359	between dimensions st the following line.	own on this	s line and
		10 S X		3 1.000	6.000					6 8 6	6	- 11	16 5R1			20	++-	39 0.000							39 0 39 0	651	No. Ea. ~ Number of	f bars of ea	ech length.
VI BEAT		72 X	12.000	9.125	 					9 9 19		- 11	16 5R1	7		20	++-	45 6.000	<u>'</u>	 	ļ. — — i				45 6 45 6	759			9
SEAM		20 X	3 000		 					: 2 3		10	8 5R1	.8		20	+	37 G.000	-	<u> </u>					37 8 37 8	314	* All hooks and ber are based on D*5d.	as for silap	e No. 12 (Only)
9 BEAH		20 X	2 9.000		 		-+-			2 9 2		8		5N	NO OF BAP LIST	+++	+-	 		<u> </u>					<u> </u>				
V10 WING	1	20 X V	1 1							2 0 2	0					+++			ļ								BENDING	DIAGRAMS	
	. = 4.000 IN-	-+++-	4 10,000		 		+-			4 0 4	<u>o</u> =					+++	-				ļ						C K	K T	BERR
VII WING		20 X	6 9.000		<u> </u>					6 9 6	9 5	<u> </u>		_ _		+++	4											e[]] , C	ÀÀ,ÆÉ
V12 CURTA		20 X	5 7.000		 				i	5 7 5	7	7 -				$\bot \bot \bot$	11-		<u> </u>						L _L _ T		B 1 B	н /с	
13 WING		20 X	⊕ 8.000		 					6 3 6	8 =	:5	-			$\bot\bot\bot$	41.				LI					i	H B	J	
14 WING		20 X V	2 5 0.000		ļ					505	2	_ _															SHAPE 65 SHAPE 7	-tE t	
INCR.	- 3.000 IN.	+++	2 0.000							. 0 2	- 1	51				$\perp \perp \perp$		L									SHAPE 8	SHAPE 95 SH	HAPE IO SHAPE II
V15 CURTA	AIN WALL	20 X	6 4.000							4 9 4	9	6		[L	I								<u> </u>		
NI BACK	WALL	20 X	6 4.000						- 1	6 4 6		2																	
SUP	ERSTRUCTURE																		<u> </u>									13 HEVB	0/ E
SSI SLAB		20	36 6.000		L					6 6 36	6 4370)4					777								 			iH <u>(γ) c</u>	الما الما
5S2 SI.AB		20 V	4 33 10.000							3 10 33 1		1	1			1++	111		<u> </u>						 		SHAPE 12 SHAPE 13 SHAPE 14	j SHAPE	15 <u>B</u> SHAPE 16
l l	= 22.375 IN.		2 2.000						1	2 2 2		.,		\top			+ -								 - - 		A SHAPE 18 70 SHAPE 19 SHAPE 20 SHAPE 19		SHAPE 16 SHAPE 16 SHAPE 16 SHAPE 16 SHAPE 16
5S3 SLAB		20 V	4 34 200							1			+	+-		111	+-								 		A SHAFE I/ 7	H B & E	* 2 bars 0/E
1	= 22.375 IN.		2 6.000							4 2 34		_ -	+	+		+++			<u> </u>			-			 		A SHAPE IS ZG	一个一种	BHKB
SS4 SLAB		20	54 6.000						T	2 6 2		-11	+			++	++-										SHAFE 20 SHAPE 10	SHAPE 21 SHAPE	22 SHADE 23
-S5 SI AB		20	39 1.000						- 1	4 6 54		11	+			+ + +	+ -	-	 						+++		Similar Summary	SIGN CEL SHAPE	EL SHAFE 23
SA CLAP		1 1 1 1	1					-+	1	9 1 39		- 15	+	+		+++	+		<u> </u>					_					
\$5 \$LAB \$6 \$LAB \$7 \$LAB \$8 \$LAB		20	24 0.000						- 1	4 0 24	1	- 11	+	-		+								 		<u> </u>	53	r	د. م ا
I SLAB		20	37 8.000			—— -			· · · · · · · · · · · · · · · · · · ·	7 8 37		3		4		1 1 1	+ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$		ļ								B -tertical] [[] [[E]
S8 SLAB		20	37 8.000		+				3	7 8 37	8 93	1		-		1-1-	+										B H Leg		D/ H
		++++	+								-	<u> </u>				+++	11-1		ļ								K O K	CIR L	C K
			11									_ L					Шi		L								SHANE 24 SHAPE 25	SHAPE 265	SHAPE 275
ED 7	e 197/BY E	30.4: 0 =																				_				· 			
LED JUCH	€ 19 // BY €	OWDE	\sim					71:-																					1200
NED . ATT	/ 19 7/ BY A	e 8 19					Note:	this draw	ving is not	to scale. Fo	llow dime	nsions.										Sheel No. 🧵	of 14				HOLT C	YTNUC	A-i906

HOLT COUNTY

A-i906

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
5	MO.		19	10	_



El 889.1

Elly cloy, Brown, medium.

El 849.1

Silty cloy, groy, medium.

El 839.1

Cloy, stiff:

El 824.1

Sor.d.

El 870.6

Sond, some grove!.

El, 810.5

Shole groy, hord. Bottomed of 83.6' hord shole.

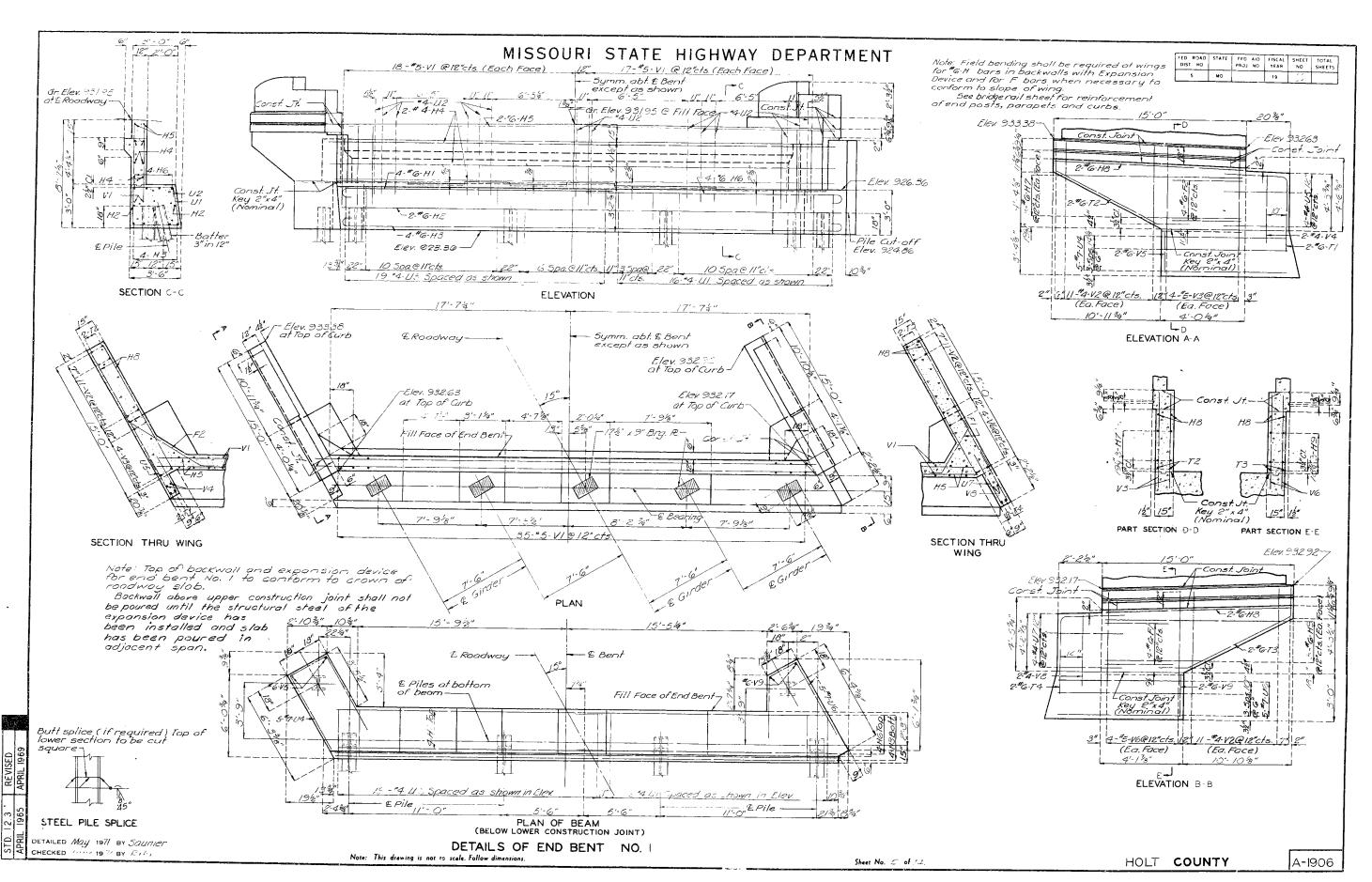
Shole

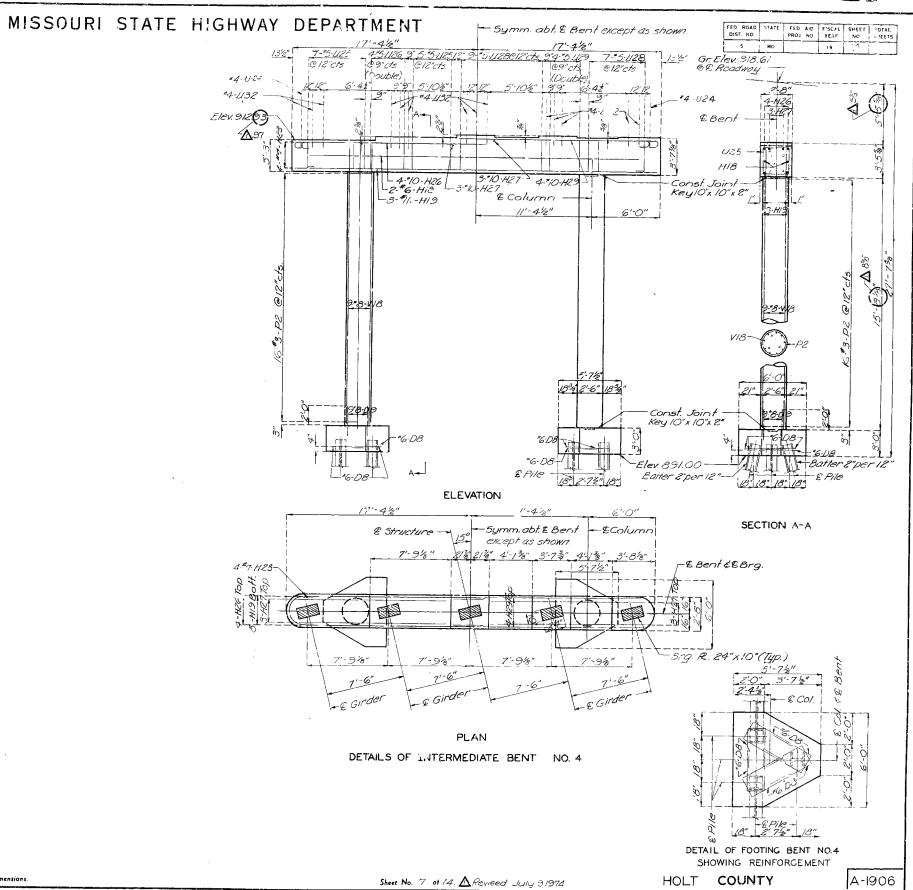
(Core)

Note: For Location of boring see sheet No. 1 of 14 .

BORING DATA

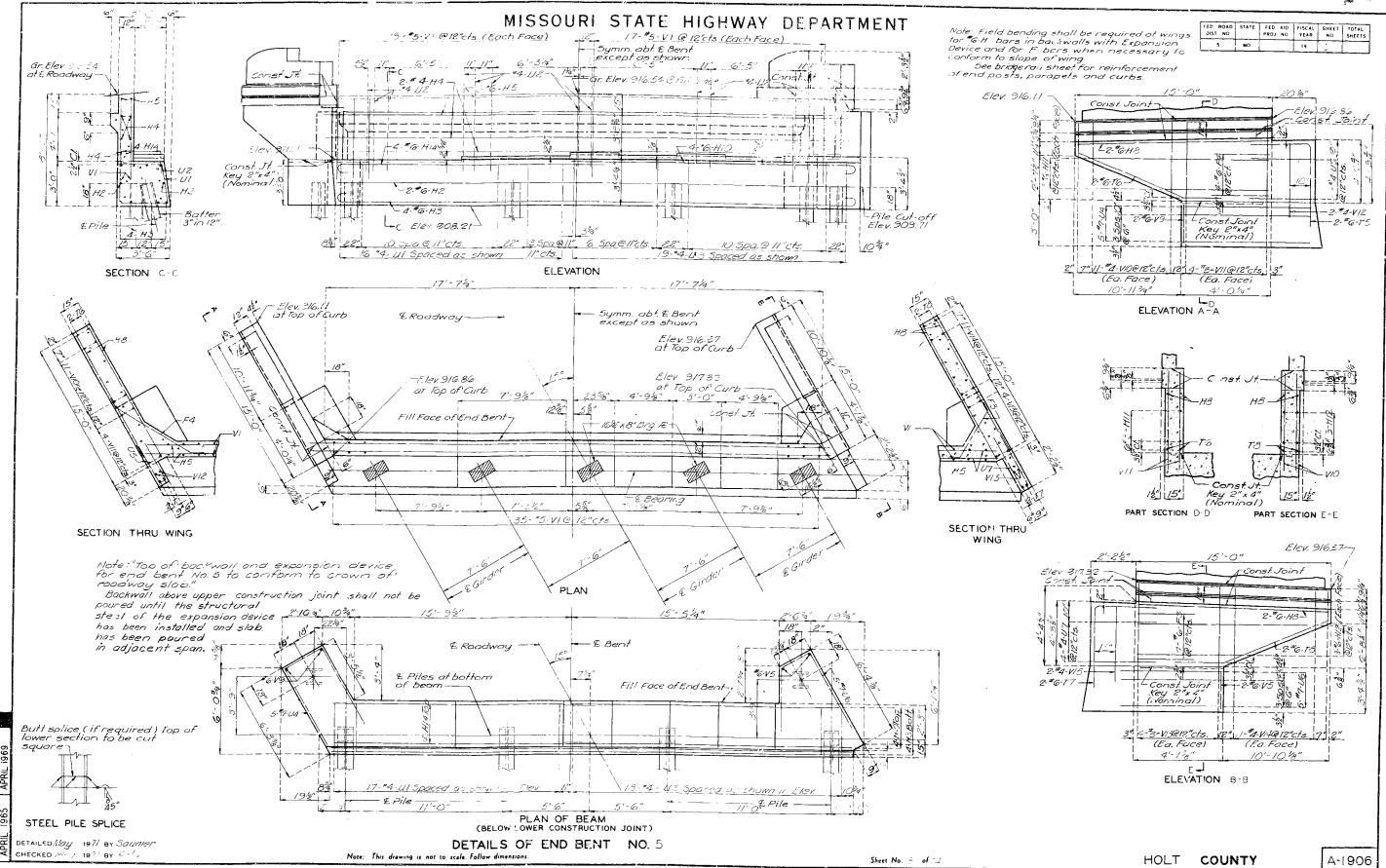
HOLT

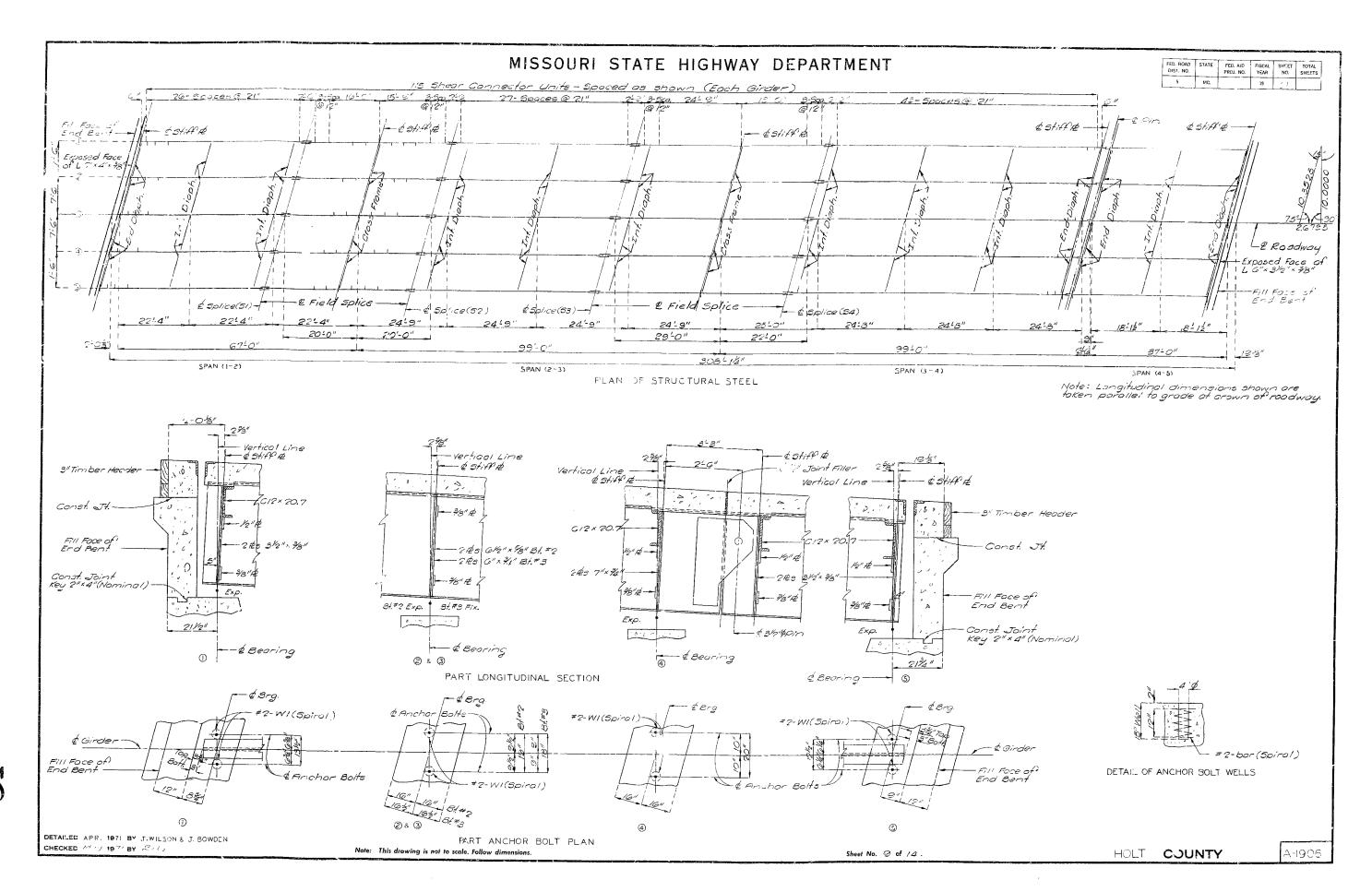


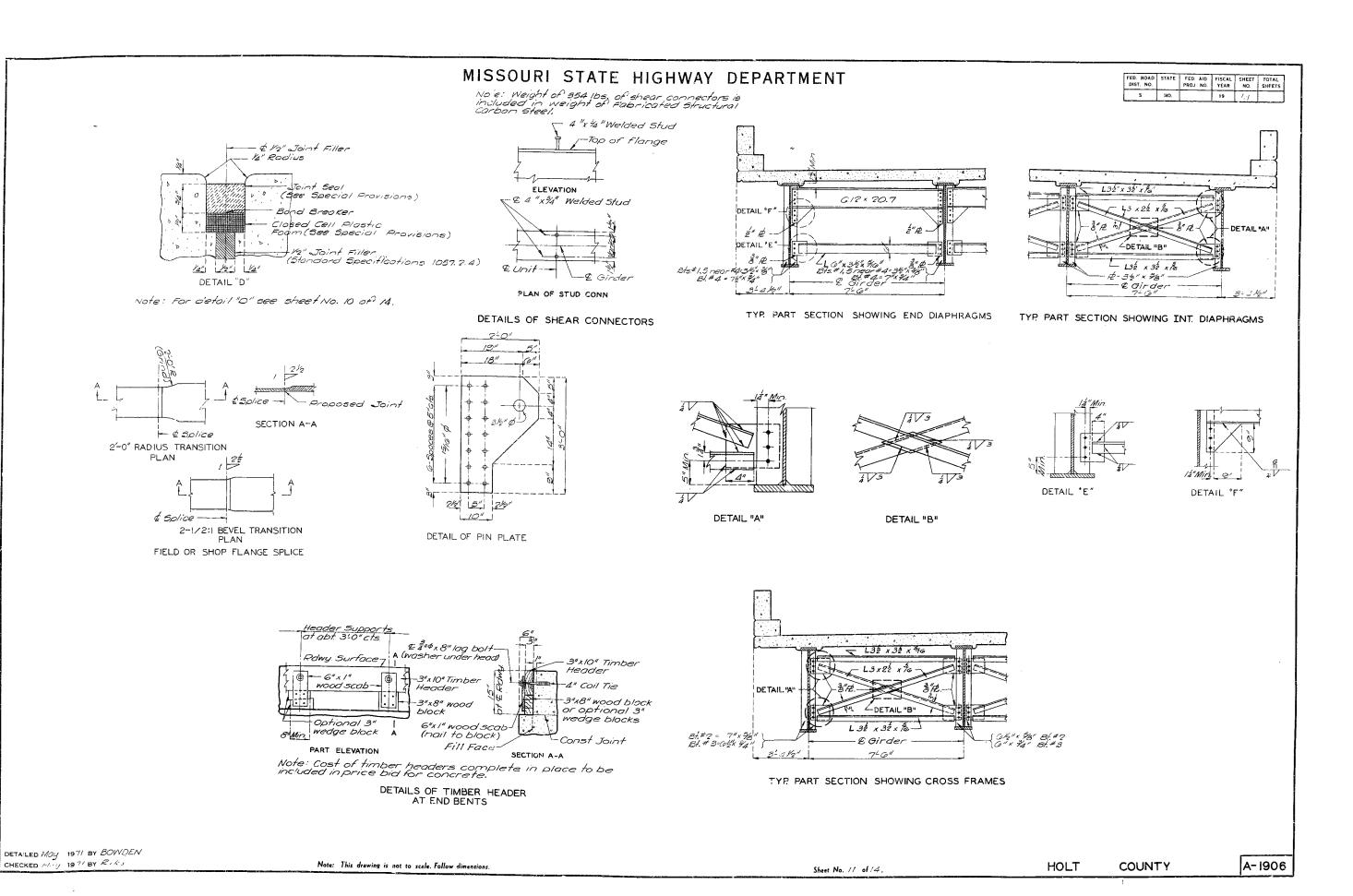


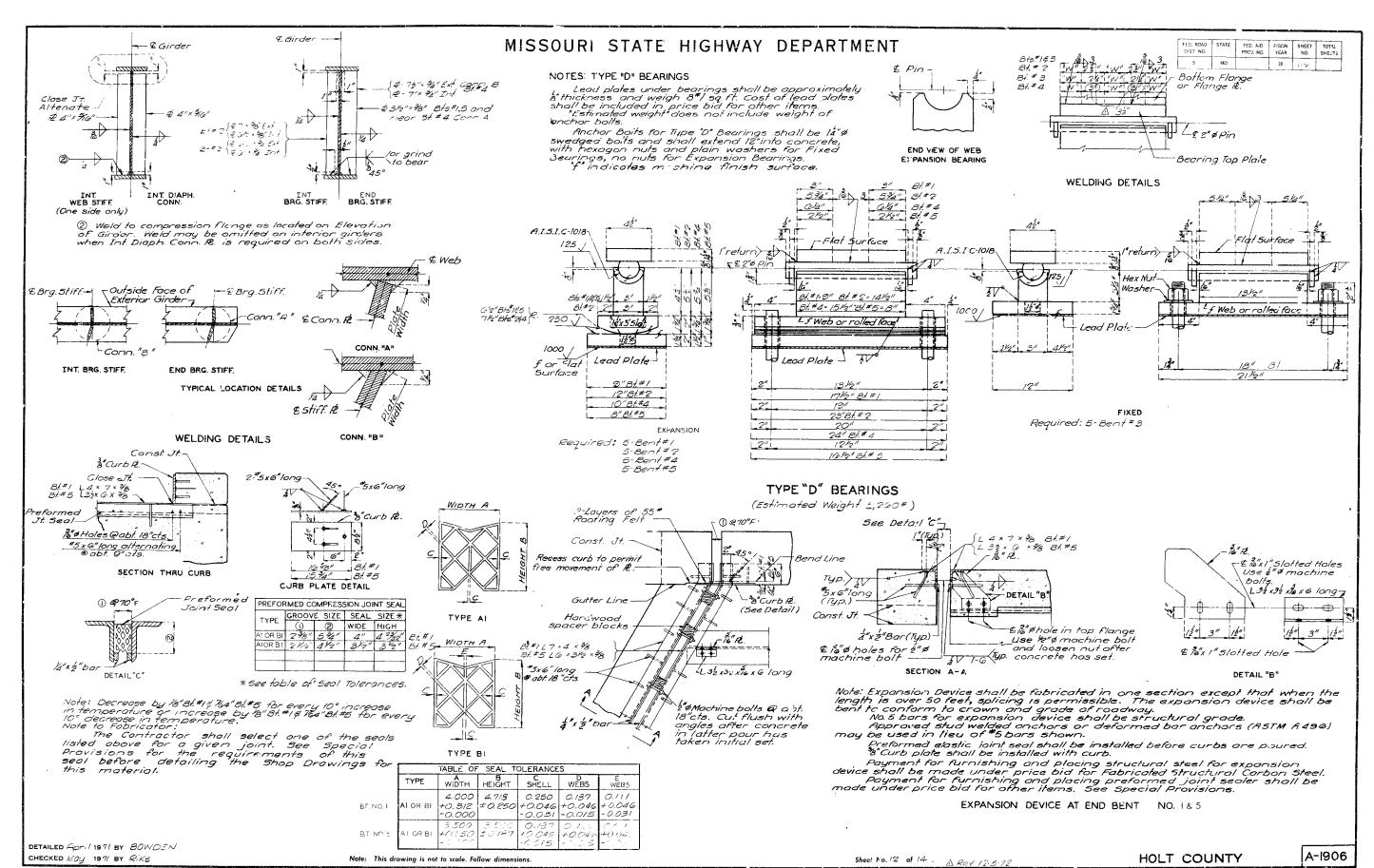
DETAILED May 1971 BY Saunier* CHECKED 12/201 1971 BY RIK.

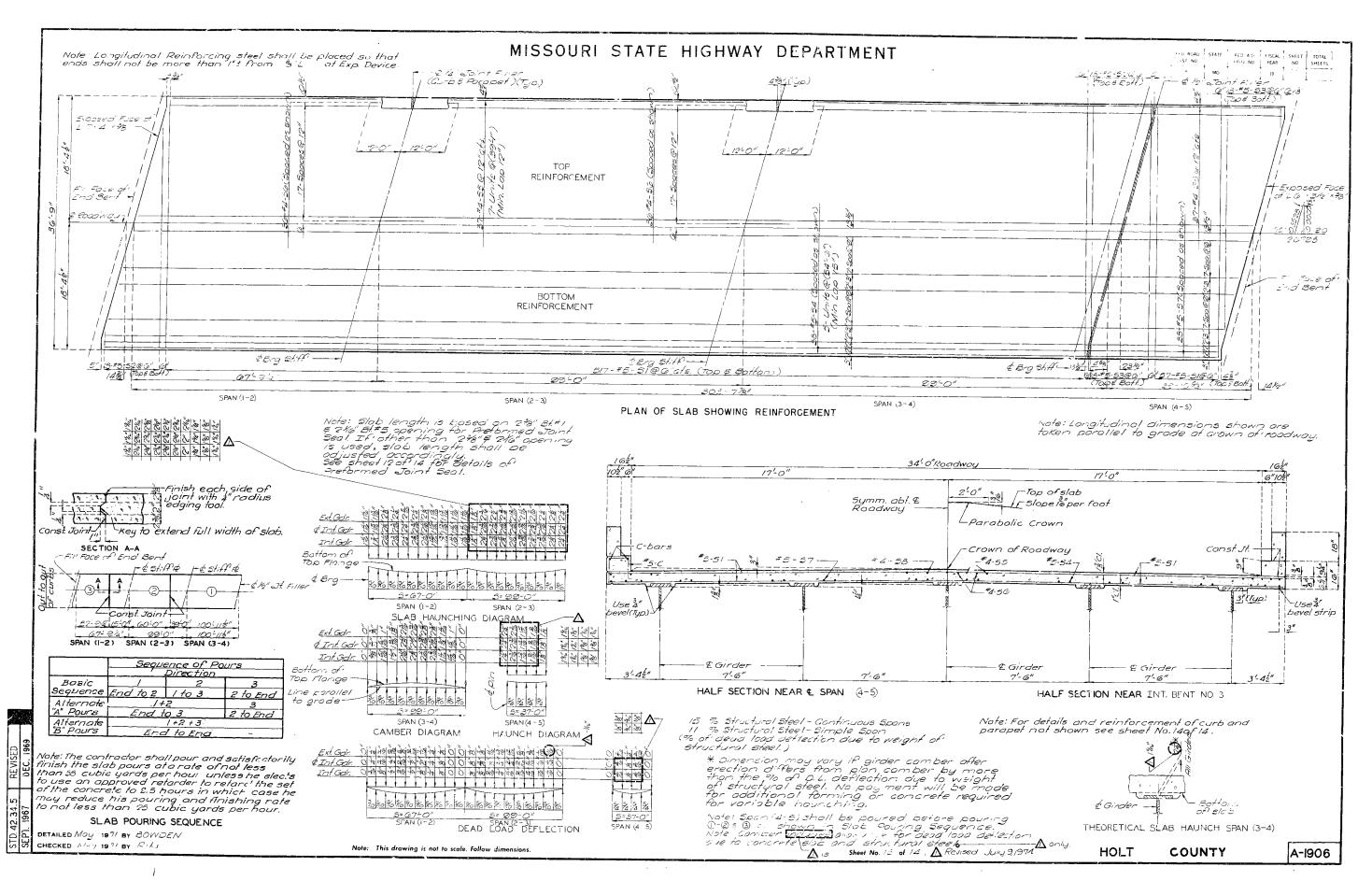
Note: This drawing is not to scale. Follow dimensions.

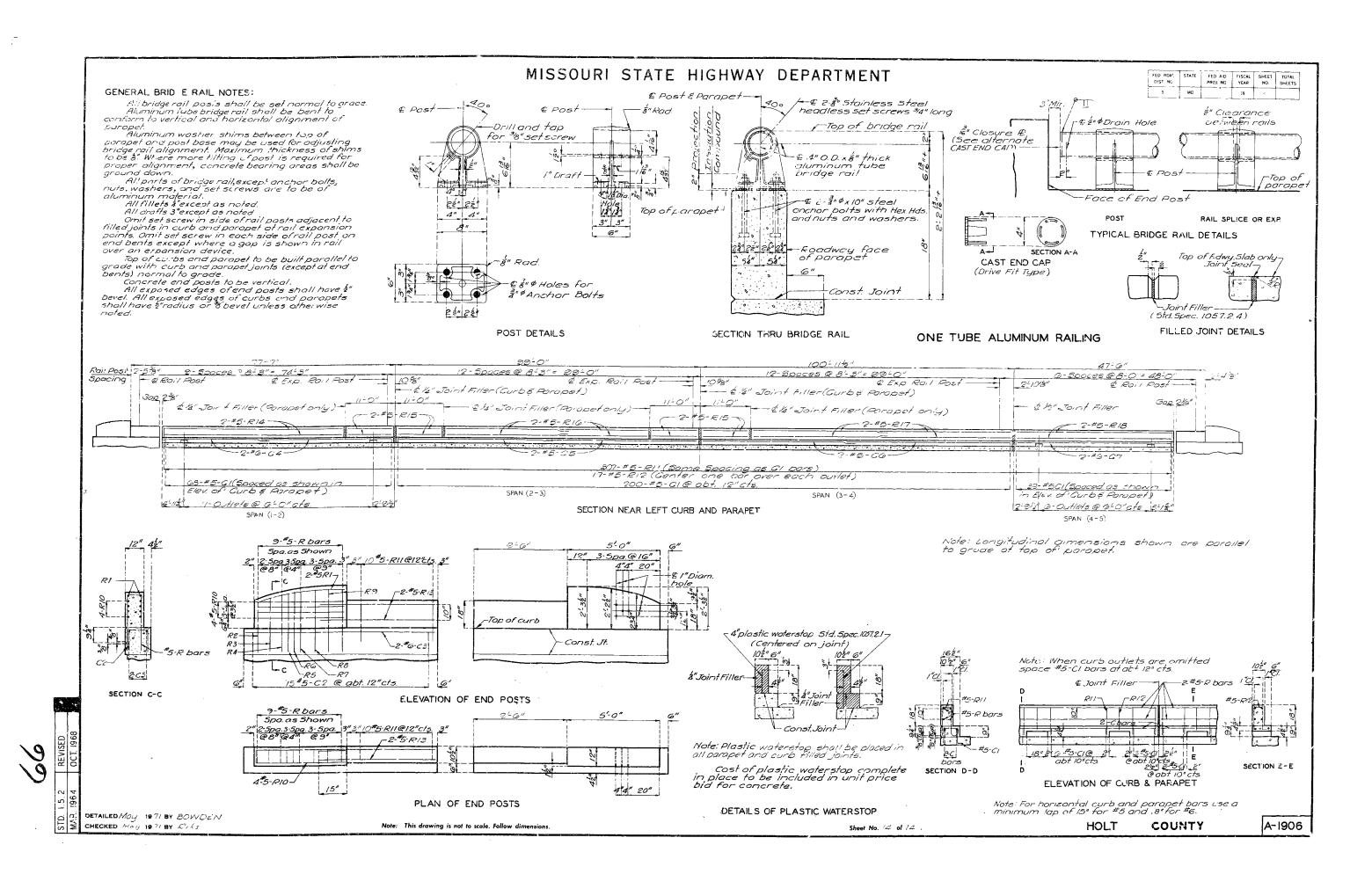


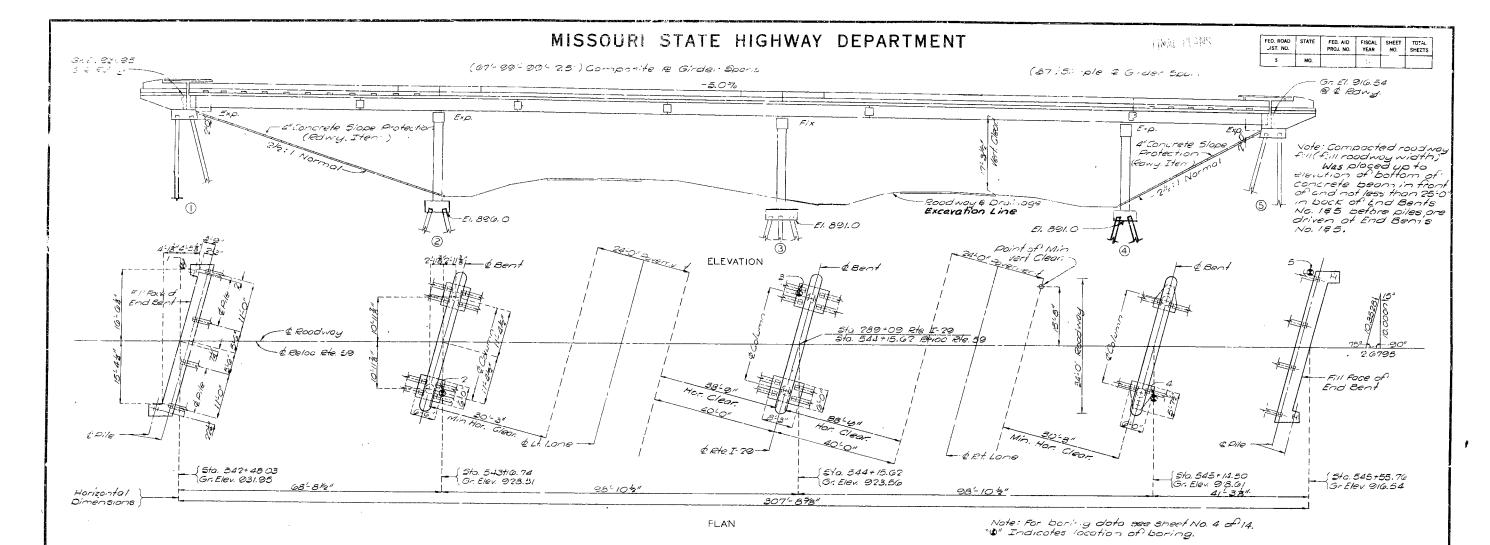












Note: Minimum clearance to reinforcing steel Was

FINAL QUAN	TITIES			
ITEM		SUBSTR.	SUPERSTR.	TOTAL
Closs I Excavation.	Cu.Yd.	89.5/	[89.5
Structurol Steel Pile (10")	Lim.Ft.	3257/		32576
Closs & Co. v.rete	·Cu. Yd.	142.0		142.0"
Closs Bl Concrete !	Cu.Ya.		310.01	√3/0.0°
Reinforcing Steel 1	126.	26870	78.480	105,350.
Fobricoted Structural Carbon Steel	16.		181,9001	181,900 €
Fubricated Structural Low Alloy Steel	126.		28,940	~28,940 i
Pointing (2 Coats) V	1700		105.1	105.17
Bridge Rail (One Tube)	Lin F.		[: 649 √	649

ESIGNED DEC. 1970BY Anon DETAILED MOY 1971 BY BOWDEN CHECKED May 1971 BY Riks

Note: This drawing is not to scale, follow dimension

GENERAL NOTES:

Design Specifications: A.A.S.H.O. - 1969.

Design Looding:

H15-44 15#|sq.fl. Future Wearing Surface Earth 120# Equivalent Fluid Pressure 30# Fatigue Stress: Coss II

Design Unit Stresses:

Gloss & Goncrete (aubstructure) fr = 1,200,051 Class & Concrete (auperstructure) ft ,600 psi Reinforcing Steel fs = 20,000 psi

Structural Steel 19 20,000 pe Structural Steel (A.S.T.M. A-57**2-66**) Grade 50 fb = 27,000 Steel 9/165 fb. = 9,000 psi. Fcbricated Steel:

holes Field connections, High Sire 19th Bolts 34" p, holes 196" accept as noted.

Point: Shop, one coat red lead in accordance with Std. Spec. 1/2.12 and 1046.4 or 1045.5: surface of shear connectors and top surface of upper girder flonge plates in contact with concrete Was painted.

Field, two coats by contractor, first coat brown. second coat aluminum in accordance with Sto. Spec. 1/2.12.

All concrete and reinforcement in end posis, poropets and curbs was included with superstructure quantities.

quantities.

Progression of the properties of th

Sheet No. / of /4 . Find PLAN

	PILI	E DATA	-			
BENT NO. L		1 1	2	3	4	5
Pile Type and Size		HP10×42	HPIOX42	HP10×42	HPIOX42	HPIOX4
Number /		6	8	10 -	6-	6
Average Length	Ft.	110	83'	83'/	83'-	100'
Bearing /	Tons	P-Ref.	P-Ref.	P-Ref.	F. Ref	P-Ref
Hammer Energy Max.	Ft. LEE	19,150	19150	19150	19150 -	19 150

Minimum energy requirement of hommer bosed on plan length and design bearing value of piles.
All pile were driven to practical refusal.

B.M. E'en 917.27-Sta. 545+29.7-16 Rt [] On Rt. Curb @ F.Face Abut # 5

BRIDGE UNDER RELOCATED ROUTE 59

STATE ROAD FROM MOUND CITY TO NORTH OF CRAIG

ABOUT I MILE NORTH OF CRAIG.

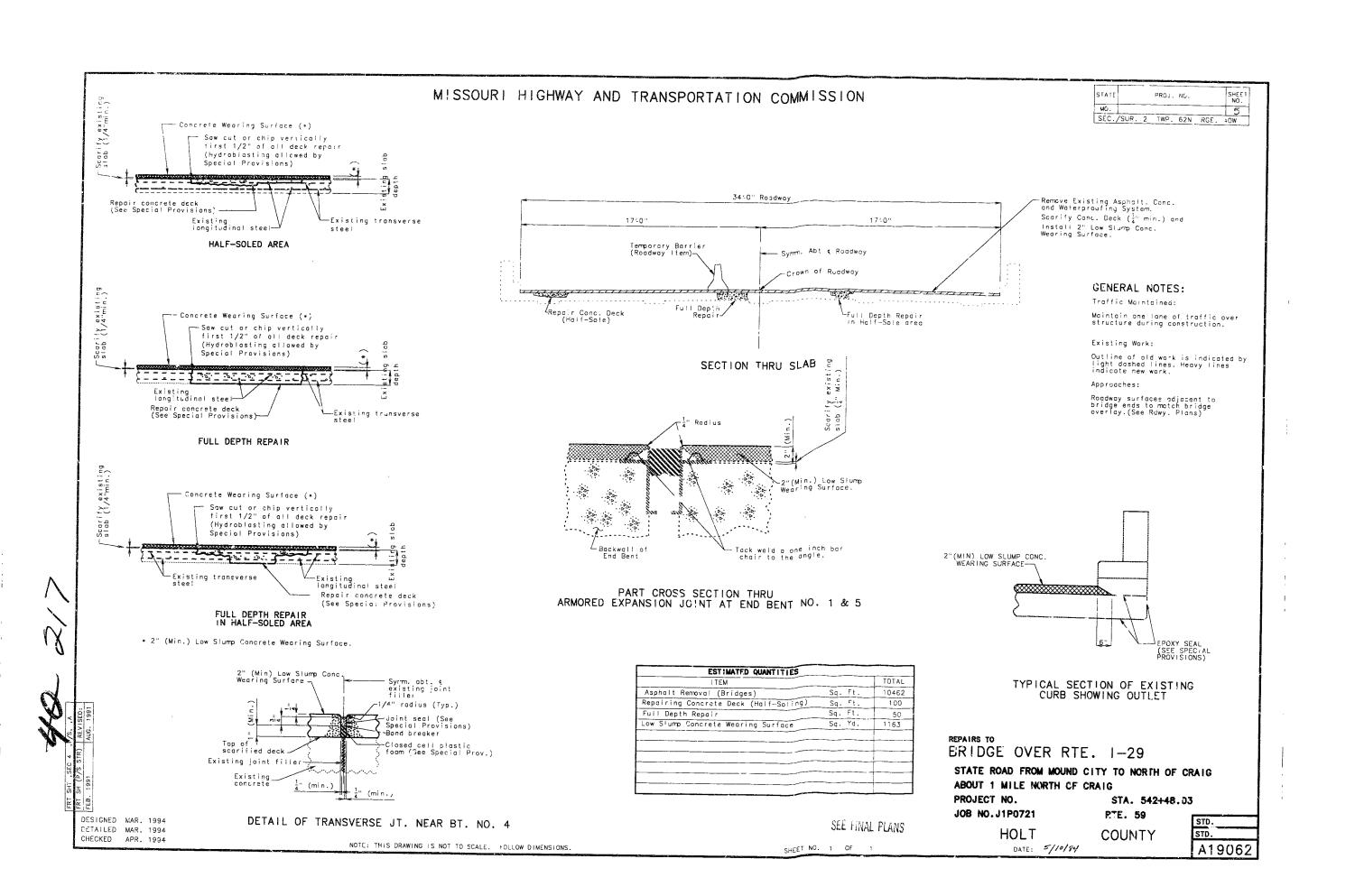
PRÓJECT NO. I-29-2(71) RTE. I-29 STA. 289+09.00

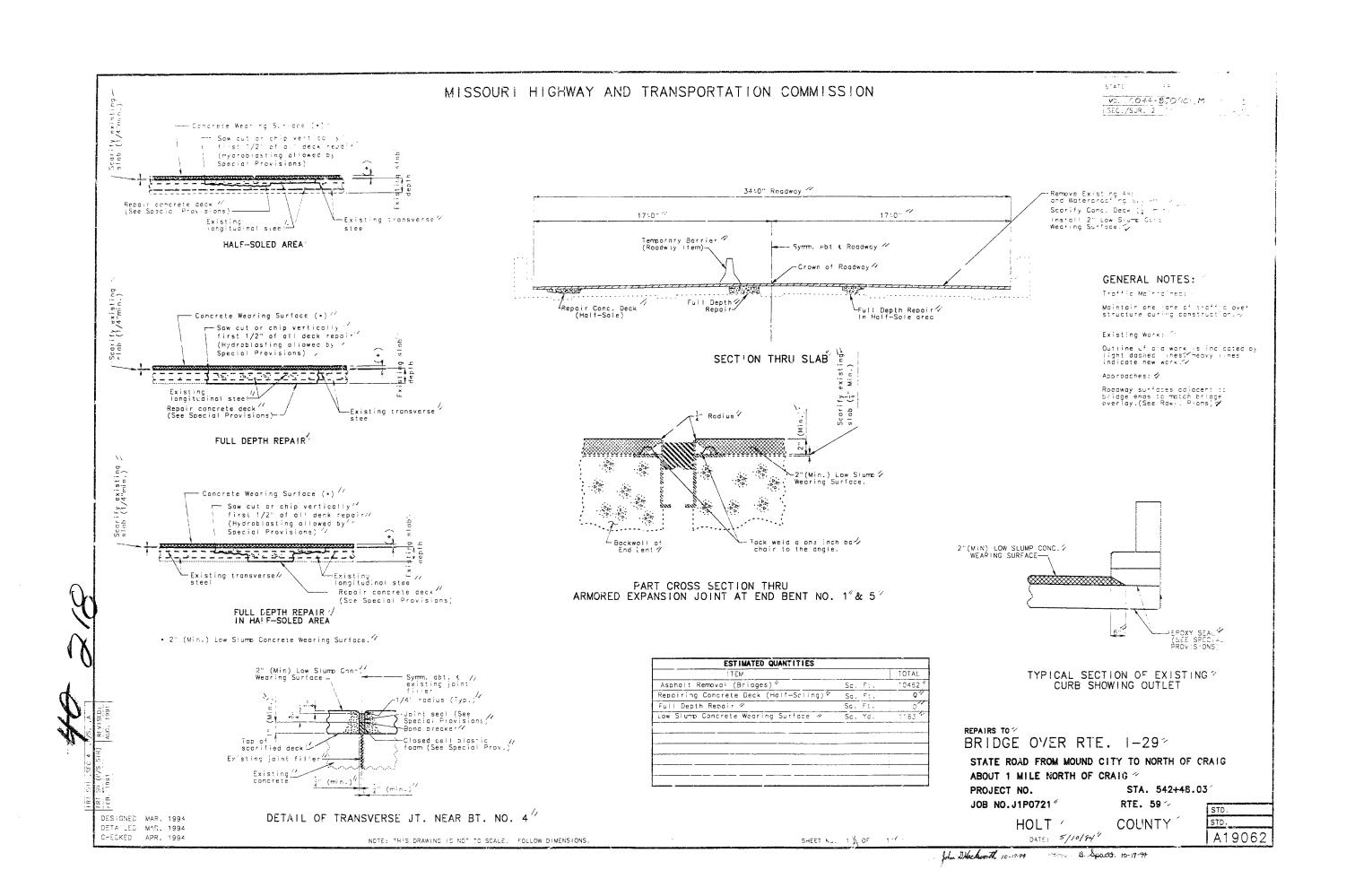
COUNTY

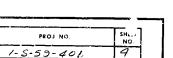
BURNITYED BY W DATE CO-26-72 APPROVED BY Robert 1. Heartie DATE 6-26-72

STD 611.60 STD.706 30A

A-1905

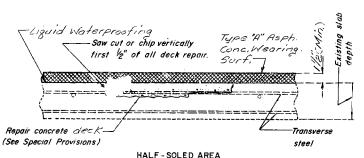




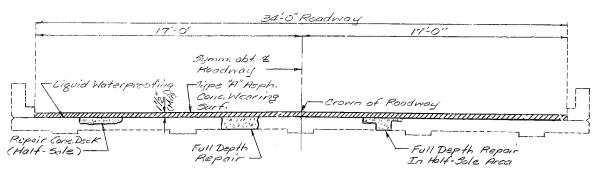


TWP. 62N RCS. 40W

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION



HALF - SOLED AREA



TYPICAL SECTION THRU EXISTING SLAB

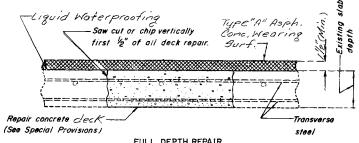
Note: Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.

Contractor shall verify all dimensions in field before ordering new material.

One line of traffic to be maintained over structure during construction.

MO.

SEC./SUR 2



FULL DEPTH REPAIR

Type "A" Asph. S Conc. Wearing

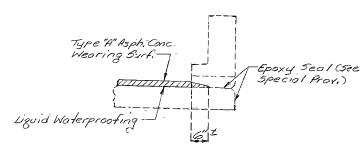
stee/

-Liquid Waterproofing

Repair concrete deck (See Special Provisions)

-Saw cut or chip vertically first 1/2" of all deck repair.

FULL DEPTH REPAIR HALF-SOLED AREA



TYPICAL SECTION OF CURB SHOWING OUTLETS

ESTIMATED QUANTITIES	
ITEM	TOTAL
Bridge Deck Woterproofing (Liquid) 53. Ye	d. 1155
Repairing Conc. Deck (Holf-Soling) 59. F	4 312
Full Depth Repair Sg. F.	4. 104
Asphalt Cement (Asph. Conc.) (60-70 or AC20) Type Himi: Ton	
Mineral Aggregate (Asph. Conc.) Type "HiMix Tor	91
Preformed Compression H. Seal (3.5 In.) Lin. F.	1 70
Freformed Compression 14, Seal (3.5 In) Lin. F.	1. 78

REPAIRS TO:

BRIDGE OVER RTE, I-29

STATE ROAD FROM MOUND CITY TO NORTH OF CRAIG

ABOUT IMILE NORTH OF CRAIG

PROJECT NO.

HOLT

STA. 542+ 3.03

JOB NO. 1-\$-59-401

RTE. 59

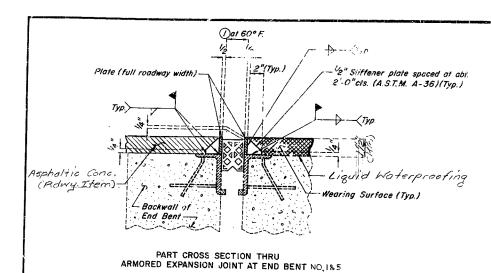
STD. STD. COUNTY A-1906R

DESIGNED AUG. 1985 DETAILED AUG. 1985 CHECKED AUG. 1985

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

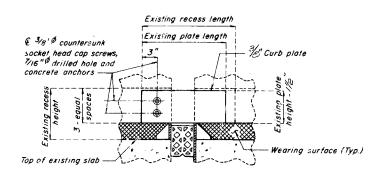
Sheet No. / of 2

DATE 9/11/85

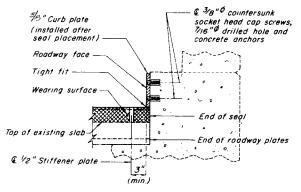


E Existing: Saw cut I"deep and fill with
a liquid joint sealant in accordance
with std. Spec. 1057.1.3. Payment
will be included in price bid for other items.

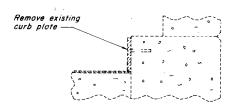
DETAIL OF TRANSVERSE JT. NEAR BT. NO. 4



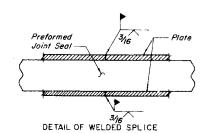
PART ELEVATION OF CURB



PART SECTION THRU CURB



PART SECTION THRU EXISTING CURB



NOTES:

Plan dimensions are based on right angles.

Compression seal and plates shall be bent to conform to new cruwn and grade of roadway.

See special provisions for the requirements of compression joint seal.

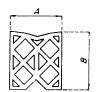
1-5-59-401

The removal and repiacement of the curb plate where required, and the installation of the bars and plates shall be included in the contract urit price per linear foot of the preformed compression joint soal.

Dimension () shall be increased 3/32 for each 10° fall in temperature and decreased 3/32 for each 10° rise in temperature at installation.

Curb plate (A.S.T.M. A36) shall be galvanized in accordance with A.S.T.M. A-123 and A.S.T.M. A-153. Concrete anchors shall be the cone expansion type for hot-dip galvanized bolts.

Two loyers of 50 troofing felt shall be placed between the curb plate and recess in curb.





TYPE AL

TYPE B3

	TABLE OF	TRANSVERSE	BRIDGE SEA	L DIMENSIONS
	₹ YPE	"A" (WIDTH)	1	REQUIRED MOVEMENT RANGE
	A1 OR B3	2.5"	1-5/8"	.9"
- 1 11	A1 OR B3	3.0"	1.7/8"	1.0"
B15.4185	A1 OF B3	3.5"	2-1/4"	1.3"
	A1 OR B3	4.0"	2-5/8"	1.6"
	A1 OR B3	4.5"	2 3/4"	1.9"
	A1 OR B3	5.0"	2-7/8"	2.0*

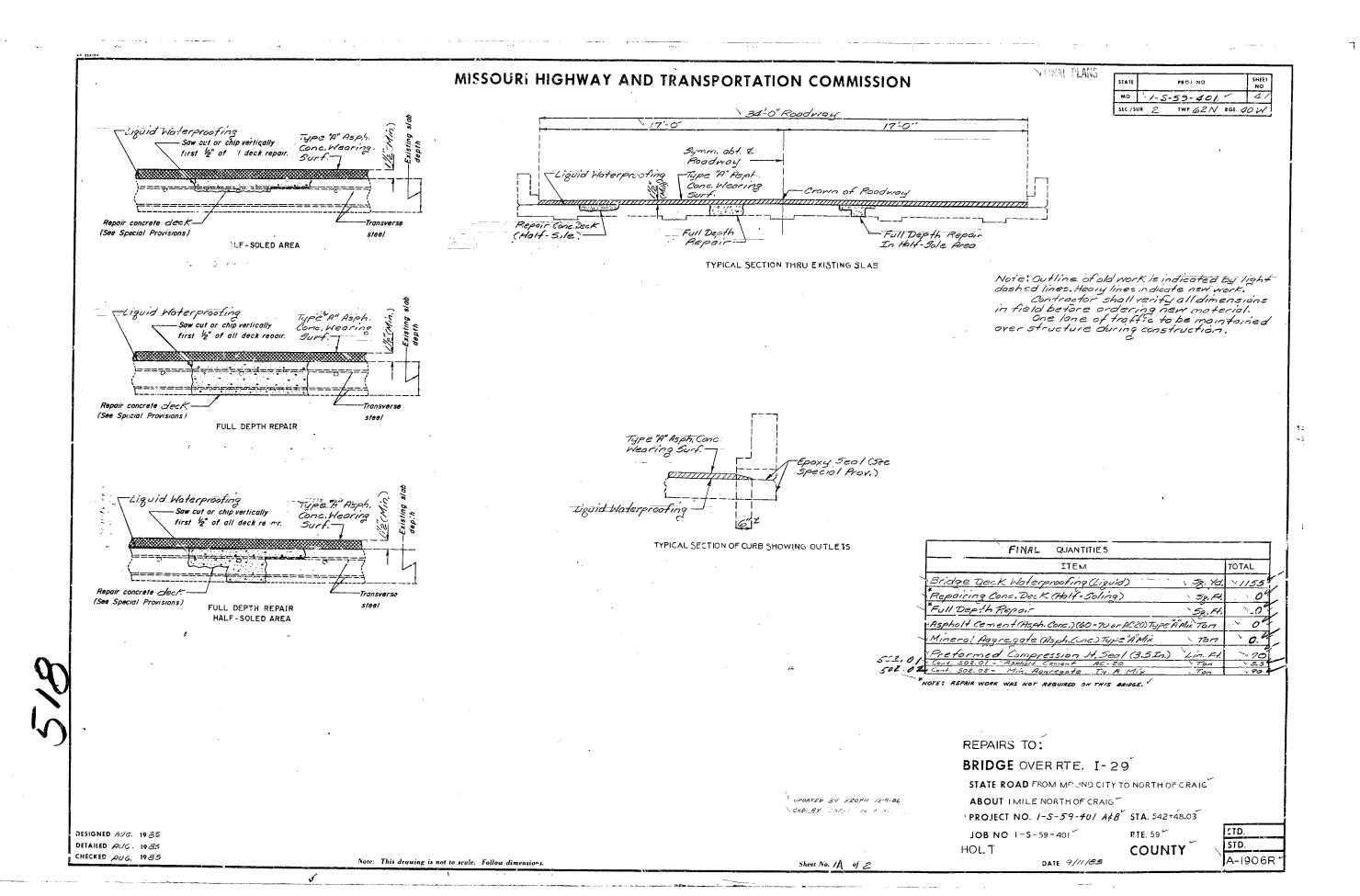
NOTE: "B" HEIGHT SHALL NOT BE LESS THAN "A" WIDTH.

Note: The contractor shall make a field measurement of the gap. If the contractors field measurement indicates a different gap then a new joint seal size shall be selected from the above table and submitted to the engineer for opproval.

HOLT

AED-EXISTING
REVISI

DETAILED AUG. 1985 CHECKED AUG. 1985





STRUCTURAL REHABILITATION CHECKLIST

Bridge No.:	A1906		Job No.:	JNW0008	
Route:	59		Over:	I-29	
County:	Holt		Date of Field Chec	k: 11/08/2022	
	* * * Please ii	nclude photo	graphs for all items	that apply. * * *	
OVERLAY	. Dv		√r ar □a:r:		
* Type of existing	· <u> </u>	✓ Asphalt 、		Fume Latex Epoxy Other:	
* Existing overlay			* Year overlay was		n
* % of overlay rep	paired or patched:	%	* Replace overlay:	YesNo	
* Notes:					
re DSCN3391, DSC	CN3396, DSCN3397				
DECK REPAIRS (A	Deck repair quantities	are required ever	n if a Deck Test request has	s been ordered for this structure.)	
* Half-sole repairs	s: he nearest 50 sq. ft.)	sq. ft.	* Full depth re	pairs:s to the nearest 50 sq. ft.)	sq. ft.
* Existing deck re (round up to th	pair (patching): the nearest 25 sq. ft.)	sq. ft.			
* Slab edge repair (covers the out	rs: ter 4" of the slab edge)	lin. ft.	_	re repair (Unformed): remaining slab cantilever beyond the ou	sq. ft. ter 4")
* Clean & epoxy c		lin. ft.	* Cantilever re	eplacement:l	in. ft.
* Total surface hy				olacement (redeck): Ves No	Opti
(half-sole, full	depth and exist. deck re	epair quamines s			_
, ,	depth and exist. deck re th voided tube replace			re replacement: Yes Vo No	Opti
* Deck repairs wit	•	ement: Yes	* Superstructus S \(\sigma \) No * Full bridge r		¹ ∕∫Opti
* Deck repairs wit (minimum of 1	th voided tube replace 0% of half-sole repair	ement: Yes	* Superstructus S \(\sigma \) No * Full bridge r	eplacement: Yes No antities required for cost comparison of a	¹ ∕∫Opti
* Deck repairs wit (minimum of I so * How were the quantum of I	th voided tube replace 0% of half-sole repair q. ft.	ment: Yes quantity) Visual Bri	* Superstructus * Vo * Full bridge r (Deck repair quanting the second of the second	eplacement: Yes No antities required for cost comparison of a	¹ ∕∫Opti
* Deck repairs wit (minimum of I St * How were the quantum of I	th voided tube replace 0% of half-sole repair q. ft. uantities obtained?	ment: Yes quantity) Visual Bri	* Superstructus * Vo * Full bridge r (Deck repair quanting the second of the second	eplacement: Yes No antities required for cost comparison of a	¹ ∕∫Opti

Spans			Location in Span	Deterio	ration	Describe
	At	Btwn (mid)		Туре	Amount	
	Panel Jt.	Panel Jt.	End Mid End		sq. ft	
					sq. ft	
	_ 🗆				sq. ft	
					sq. ft	
	_ 🗆				sq. ft	
					sq. ft	
			tion, efflorescence, rust staini ear panel joints. The location		~ .	
at joints, etc.	Typically ob		**		~ .	
proach s	Typically ob		ear panel joints. The location	and "Type" of a	~ .	recorded.)
PROACH S * Is there a l	Typically ob	oserved at or no	ear panel joints. The location	and "Type" of a	leterioration should be	recorded.)
PROACH S * Is there a l	LABS bridge appr	oserved at or no	lace? Yes No	and "Type" of a	Concrete ✓ Aspha	recorded.)
PROACH S Is there a l Is there rd Is the appu	LABS bridge appr wy. approa	oach slab in p ch pavement i inking at the c	lace? Yes No	and "Type" of a * Type: [* Type: [No P Yes [Concrete ✓ Aspha Concrete ✓ Aspha	recorded.)

4
SLAB DRAINS
* Is the drainage system working adequately? Ves No
* Recommendations:
* Notes:
cicture DSCN3401, DSCN3402
CURBS & RAILS
* Existing curb (left side): Safety Barrier Curb / Curb/parapet Blockouts Thrie Beam Baluster Steel Channel
Other
* Does curb need repai Yes No * Curb repair lin. ft.
* Remove hand rail Yes No * Add curb blockou Yes No
* Existing curb (right side): Safety Barrier Curb Curb/parapet Blockouts Thrie Beam Baluster Steel Channel
Other
* Does curb need repai Yes No * Curb repair lin. ft.
* Remove hand rail Yes No * Add curb blockou Yes No
* Existing median curb: Type: Width " Height "
* Does curb need repai Yes No * Curb repair lin. ft.
* Approach rail attachment: Vone Not attached 4 Hole Turn-down Other
* If the existing handrails will be removed, does the local maintenance supervisor wish to keep them? Yes
Storage address: location:
address:
city: state: zip:
* Notes:
icture DSCN3391

Effective: May 2020 Supersedes: June 2013 3 of 9

Bent	Type	Recommendations	Gap Left	Gap Right	Temperature & Other Info
W 1				<u>"</u>	
2			"	"	
3		USE-IN-PLACE	"		
		E-IN-PLA			
4		· — — —			
<u>E 5</u>		_	"	"	
— -		. L L L	"	"	
* Notes: _					
_					
e DSCN33	94, DSCN3398				
EARINGS					
Bent	Coating	Recommend	ations	Notes (indica	te which bearings at each bent)
				Trotes (marea	te which bearings at each benty
<u>W 1</u>	AT		SLAB		
2	N & OVERCOAT		BENT SLIDING BENT SLIDING BENT INTEGR	-	
3	Z Z Z	USE-IN-PLACE REPAIR RESET RESET REPLACE			
4	N & OV	E-IN-PL/			
E 5		_		-	
E 5	CLEA BLAST		MAKE END BENT SLIDING SL. MAKE END BENT INTEGRAL		
			_ \[\bullet \]		
* Notes:					
_					
	Pictures of Each Bear				
3405, DSCN. 3435, DSCN.	3407, DSCN3408, DS 3440, DSCN3442, DS	SCN3413, DSCN3416, DSCN3 SCN3444, DSCN3449, DSCN3	420, DSCN3421, I 450, DSCN3451, I	DSCN3422, DSCI DSCN3452, DSCI	N3423, DSCN3424, DSCN3433, N3453
OATING SY	STEM (PAINT)				
* Existing	coating system:		Γ	green ✓ gray	other
	coated: 1975	* Is existing	coating peeling?	Yes (Overcoat i	s not an option) No
* Date last			& recoat all steel	Clean	1 & overcoat all steel
	recommendation:	✓ Blast clean			
	recommendation:	_	& recoat only at join		& recoat at joint locations and & overcoat all other steel
	recommendation:	Blast clean	test required for ov	clean	& overcoat all other steel
		Blast clean Note: Pull-off	test required for ovall-off tests.	clean	

	-	re or Girder: (above oided slabs, box girde	-		
	ders & prestressed gir		-		
	Example: Beams, stri	ingers, girders, diaphr ly) (Attach pictures)	ragms, cross-frame.	s, misc. steel)	Describe & Locate
	Section	on Loss %	Cracks	in.	
	Section	on Loss %	Cracks	in.	
	Section	on Loss %	Cracks	in.	
	Section	on Loss %	Cracks	in.	
Notes	: Remove nanger pi	late connections (Spa	n I and Bent 2)		
		DSCN3411, DSCN341			DSCN3423, DSCN3426, DSCN3428, DSCN3445, DSCN3446,
	N3409, DSCN3410, D	DSCN3411, DSCN341			
DSCN	N3409, DSCN3410, D	DSCN3411, DSCN341			OSCN3445, DSCN3446,
DSCN JBSTRU	N3409, DSCN3410, D N3435, DSCN3436, D CTURE REPAIR	DSCN3411, DSCN341 DSCN3437, DSCN343	39, DSCN3440, DS	CN3441, DSCN3443, E	
DSCN JBSTRU Bent	CTURE REPAIR Formed Repair	OSCN3411, DSCN341 OSCN3437, DSCN343 Unformed Repair	Seal Concrete Beam Cap Bts.	Coat Exposed Pile (a) Int. Pile Cap Bts.	Describe (Beam, Backwall, Wing, e
DSCN UBSTRU Bent W 1	CTURE REPAIR Formed Repair sq. ft.	Unformed Repair 10 sq. ft.	Seal Concrete Beam Cap Bts. Yes No	Coat Exposed Pile @ Int. Pile Cap Bts. Yes No	Describe (Beam, Backwall, Wing, e
DSCN UBSTRU Bent W 1	Sq. ft. Sq.	Unformed Repair 10 sq. ft. 5 sq. ft.	Seal Concrete Beam Cap Bts. Yes No	Coat Exposed Pile @ Int. Pile Cap Bts. Yes No	Describe (Beam, Backwall, Wing, e
DSCN UBSTRU Bent W 1	Sq. ft. Sq.	Unformed Repair 10 sq. ft. 5 sq. ft. sq. ft.	Seal Concrete Beam Cap Bts. VYes No VYes No	Coat Exposed Pile @ Int. Pile Cap Bts. Yes No Yes No	Describe (Beam, Backwall, Wing, e
DSCN UBSTRU Bent 2 3 4 E 5	Sq. ft. sq.	Unformed Repair 10 sq. ft. 5 sq. ft. sq. ft. sq. ft. sq. ft. sq. ft.	Seal Concrete Beam Cap Bts. Yes No Yes No Yes No Yes No	Coat Exposed Pile (a) Int. Pile Cap Bts. Yes No Yes No Yes No Yes No	Describe (Beam, Backwall, Wing, e Abutment Beam cap at hanger plate connecti

Effective: May 2020 Supersedes: June 2013 5 of 9

11 SIGNS, SIGNALS &/OR LIGHTING ATTACHED TO STRUCTURE	
* Are there signs attached directly to this structure? Yes Vo qua	ntitylocation
* Describe proposed work to be done to signs.	
* Are there signals attached directly to this structure? Yes No qua * Describe proposed work to be done to signals.	ntity location
* Is there aviation lighting attached to this structure? Yes No * Is there navigational lighting attached to this structure? Yes No	$\sqrt{N/A}$ Red Green $qnty$. Green
* Is there roadway lighting attached to this structure? Yes No	qnty. qnty. qnty.
* Describe proposed work to be done to lighting.	
* Notes: N/A Picture #	
UTILITIES ATTACHED TO STRUCTURE	
Type Qty. Size Owner	Condition
Conduit Pipeline Other	Repaint Repair Replace Remove
Conduit Pipeline Other	Repaint Repair Replace Remove
Conduit Pipeline Other	Repaint Repair Replace Remove
Conduit Pipeline Other	_ Repaint Repair Replace Remove
* Notes: N/A	

* Is there a cathodic system on th		∕es ✓N	o Remov	ve Do not al	ter Abandon in	place (grooved syst
* Is it on and working? Yes		Jnknown	_	_	_	
* Notes:						
-						
re						
CHANNEL ALIGNMENT, SLOPE	PROTECTION &	& SCOUR				
* Is channel aligned to bridge ope	ening? ✓Yes	□No D	escribe			
* Is drift a continual problem?	Yes	✓No De	scribe & Locate	e		
* Is erosion a problem?	Yes					
* Describe slope protection in pla	ce. East - co					
		Depth	Ben	nt R	Recommendation	
		T		<u> </u>		
				 _		
				<u> </u>		
* Describe needed work.						
re DSCN3427, DSCN3456						
TRAFFIC LANES						
* Number of lanes striped:	on structure	2	υ	inder structure		
* Shoulder width: None	on structure	(left)	(right)	inder structure	(left) (rigi	ht)
* Sidewalk widths:	on structure		u	inder structure		
	_	(left)	(right)		(left) (rigi	ht)
* Median width:	on structure		υ	inder structure		
* Proposed improvements for lan	es/shoulders/side	walke				
* Proposed improvements for lan	es/shoulders/side	walks:				

GENERAL AREA CONDITIONS				
* Primary area: Commercial	Industrial	Residential	✓ Agricultural	Military Other
* Posted speed limit on structure:	mph			
* Posted load on structure:	tons			* Are both signs in place?
Single Unit: Semi (tractor/trailer):	tons	•	mph NA	YesNo
* Do pedestrians and/or bicyclists r	egularly use this	structure? Y	es No 🔽	Undetermined
* Notes:				
Picture DSCN3391 #				
* What work has been done to this serious patching of the deck Picture DSCN3392	structure that ma	y not be reflected	l on existing bridge	plans?
ADDITIONAL FIELD NOTES				

19				
STAGIN	G / DETOUR			
* Trai	ffic Control: Close structure	Stage construction on stru	cture Cross over traffic to a	djacent structure Detour
	Other option			
* Defi	ine probable detour route.			
20				
PERSON	NS ASSISTING WITH CHECKI	LIST		
Name	Joyce Reynolds	Title Pro	ject Manager Ph	. (816) 387 - 2411
Name	Bryce Acton	Title District	Bridge Engineer Ph	. (816) 390 - 3641
Name		Title	Ph	. () -
Name		Title	Ph	. () -
Name		Title	Ph	. () -
21				
REQUIR	RED SIGNATURES I have reviewed the information	on this checklist and believe	it to be as accurate as possible.	
Name			Date	
	Transportation Project Manager			
Name	Bryce Acton		Date	12-6-2022
	District Bridge Engineer			

The structural rehabilitation checklist indicates how the bridge is functioning and aging.

All deterioration should be noted, even if it is known that the work will not be completed under the proposed project.

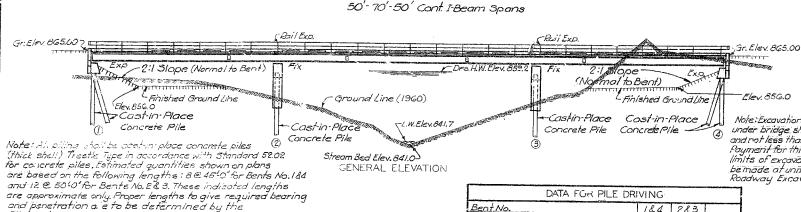
Send **NEW** Structural Rehabilitation Checklist by email

To: "Bridge Survey Processor"

Cc: Structural Project Manager or Structural Resource Manager



1&4 28.€

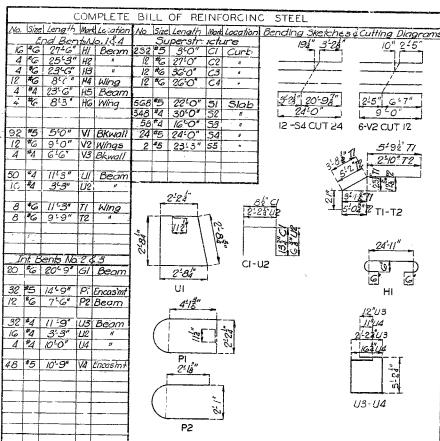


Bent No.

"Plan" Capacity Per Pile

Computed Capacity Reald, 9er Pile Min. Penetration (Pile Tip Elev.)

	Note: Excavation of all existing materials
<u>a</u>	under bridge shall be made to flev 656.0 and not less than 4.0 autside of curb lines.
	Payment for this excountion of white the
	limits of excavation for substructure will be made at unit contract price for
	Roadway Excavation.



are required to obtain Plan capacities in which cases the Engineer will authorize lesser capacities, but in no cases below "Computed" capacities. All concrete for cast in-place piles shall be Class"A". -£Roadway & Bent & & Pile · £Ben/&£Pile Fill Face of Ena' Ben Beg. 5ta. 124+81.0) Gr. Ělev. 865.00 70^L0" 5/1941 173462

Design Specifications A.A.S.H.O.-1957.

GENERAL NOTES

Note: For log of soundings see Sheet No. 2 of G.

-C.B.&Q Railroad Beg. Sta. 124+81.0~ Drainage Area: 22.0 Sq.Mi. (Lt. Hillu) LOCATION SKETCH

All piles shall be driven to the minimum penetrations noted and

to not less than the specified "Plan" capacities unless excessive lengths

Contractor.

Drawn Oct. 1960 by B.R.G.

Checked Aug. 1961 by L.E.G. & J.J.C.

Loading H15-44 (1-Lane)
Structural Steel Stress (A.S.T.M. A7-581) 18,000 1/11.
Structural Steel Stress (A.S.T.M. A3G-GOT) 20,000 1/11.
Reinforcing Steel Stress: 20,000 1/11. Class B Concrete Stress 1,200 #/a" Class B. Concrete Stress: 1 600#/0." Superstructure concrete shall be Class Bl. (Air Entrained) Substructure concrete shall be Class B. (Air Entrained) Rivets (** holes is except where otherwise noted. Field connections shall be riveted except as noted in handrail details or, if the Proposed Contractor desires to eliminate all field riveting on this project, he may use high strength steel bolts with hardened washers for the beam splices and machine Structure balts for other field connections. Heads and nuts of machine balts shall be American Standard Regular.

Where joint filler is specified on the plans it shall conform with the requirements of Section 157.2.5 of the Standard Specifications.

Point; Stop none; Field, contact surfaces of bolted field connections, except where high strength bolts are used, one coat of red lead and surfaces inaccessible after on using field rivets except for bolted connections specified for handrail. erection three costs of red lead. No other paint to be applied by Contractor Payment for

cleaning and pointing such surfaces will be included in unit price bid for Fabricated Structural Carbon Steel. Red lead required shall be furnished by Contractor.

Qualification of westing operators will be required.

Fabricated Structural Carbon, steel for wide flange beams and splice plates shall be A.S.T. M. A3G 50 and all other steel shall be A.S.T.M.A7-58T except as noted for bearings.

Steel shell shall shall be A.S.T.M.A7-58T except as noted for bearings.

in Section 52.4.7 of the Signdard Specifications. Note: This drawing is not to scale. Follow dimension

ESTIMATED Q	UANTITIES		*****	
<u>lier</u>)		Substr.	Superstr.	Tolal
Class I Excavation, for Structures	Cu. Yds.	50		50
Class B Concrete	Cu. Yds.	54.4	111111	54.4
Class B' I Concrete	Cu.Yds.		87.9	87.9
Fabricated Structural Carbon Steel	Lbs.		82,360	82.360
Reinforcing Steel	Lbs.	4,630		28,240
Cast in Place Concrete Piles	Lin. Ft.	960		960
			Ì	

Note: All excavation for bridge will be paid for as Class I Excavation for Structures.

* Final pay weight for Fabricated Structural Carbon Steel will be based

HOLT

BRIDGE OVER MILL CREEK

ABOUT 6.0 MILES N.W. OF FORBES **PROJECT NO.**S-1236(D(ST) **STA.**124+81.6 COUNTY

71873286¢

B.M. Elev. 859.8 "x"c > north end N.W. conc. woll of 'C.B.&Q. Rridge *89.21 70'Lt. of 5to. 124+81.3 (U.S.C.&G. Datum-1954 Adj.)

DB Gantons DATE 9/8/6/
OCHOEN ENGINEER DATE 9/8/6/

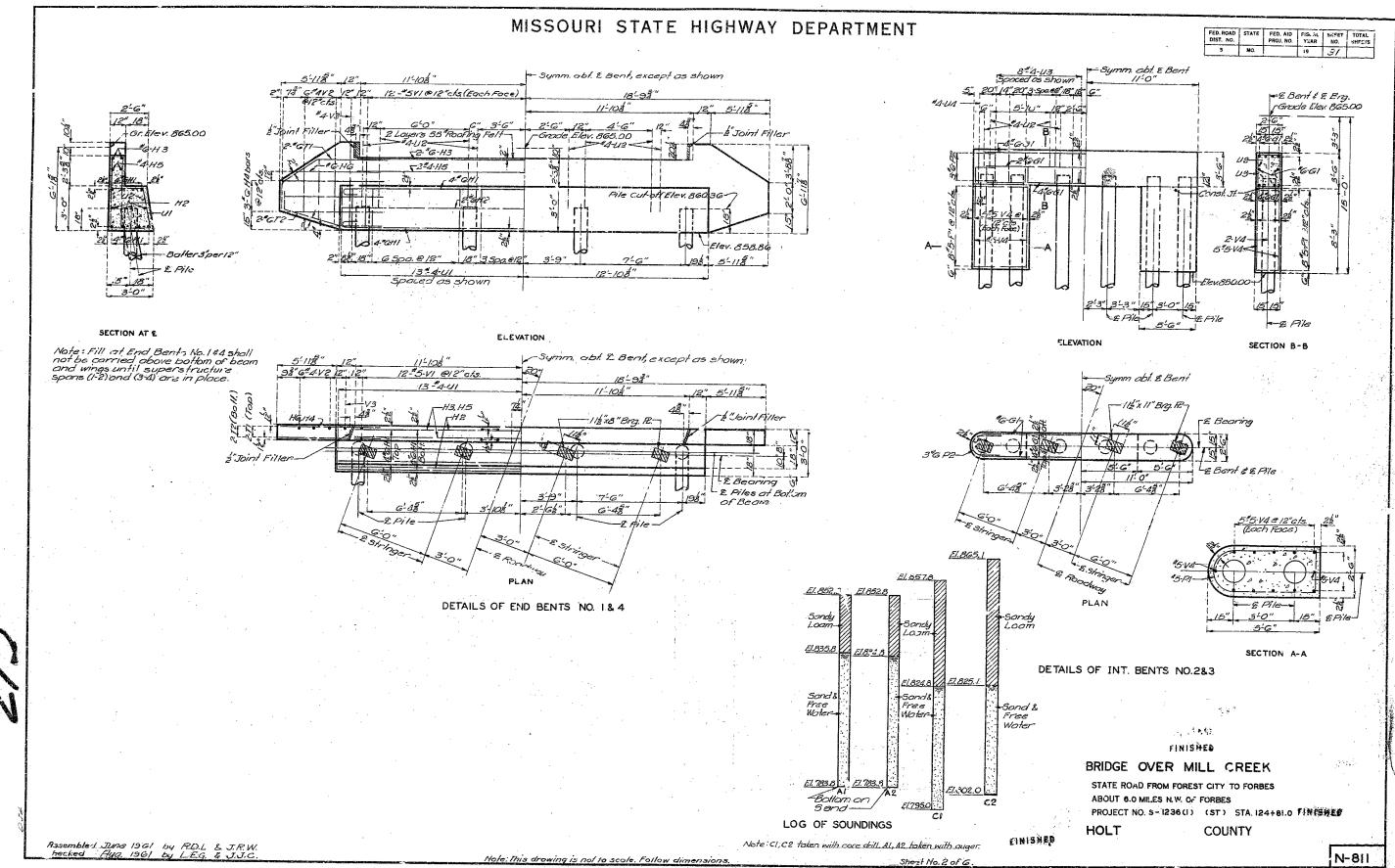
STATE ROAD FROM FOREST CITY TO FORBES

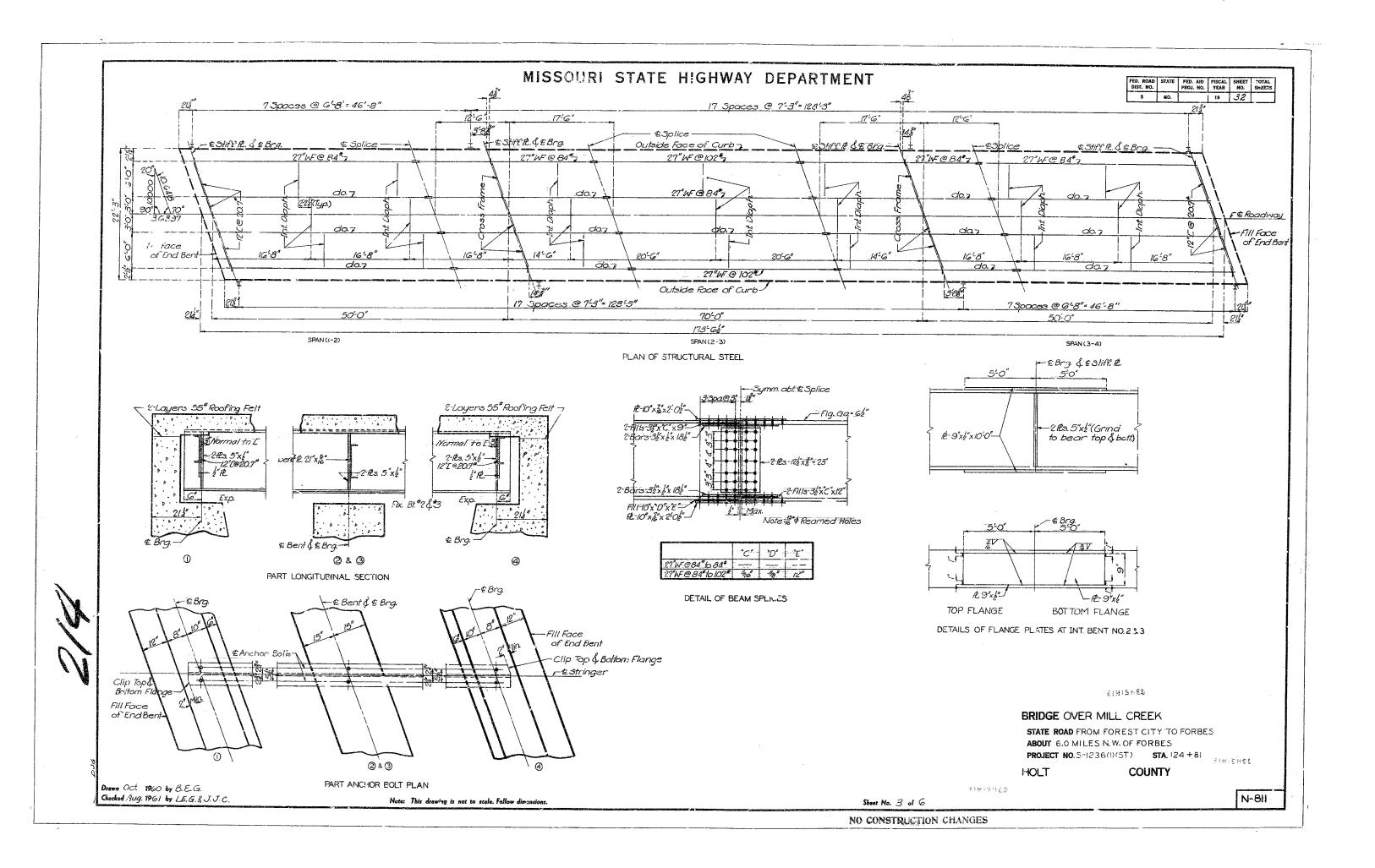
STD.52.02 STD 5400 N-811

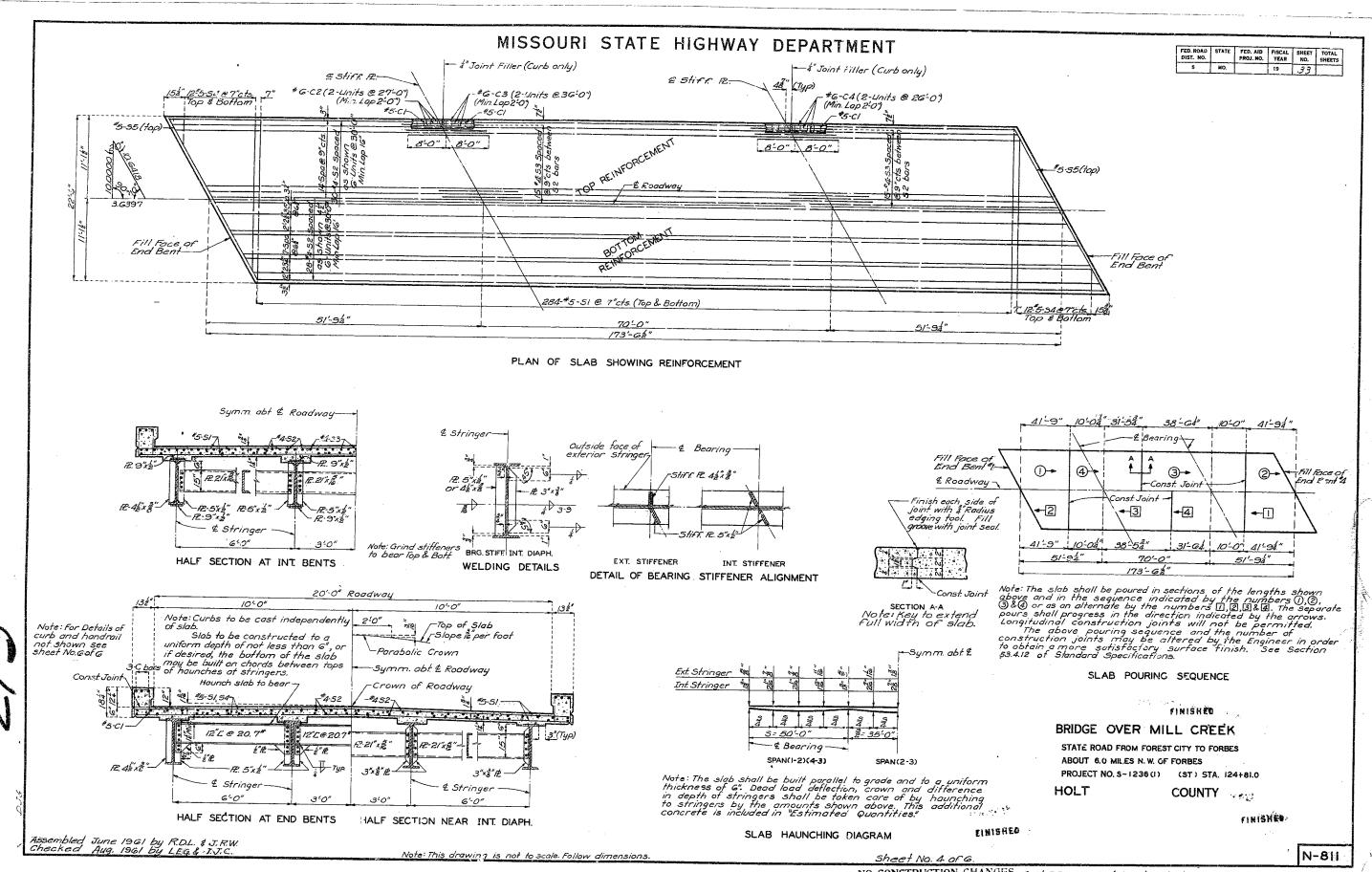
MANUAL PROPERTY.

Sheet No. / of G.

SEE FINAL PLANS BROWN-LINES





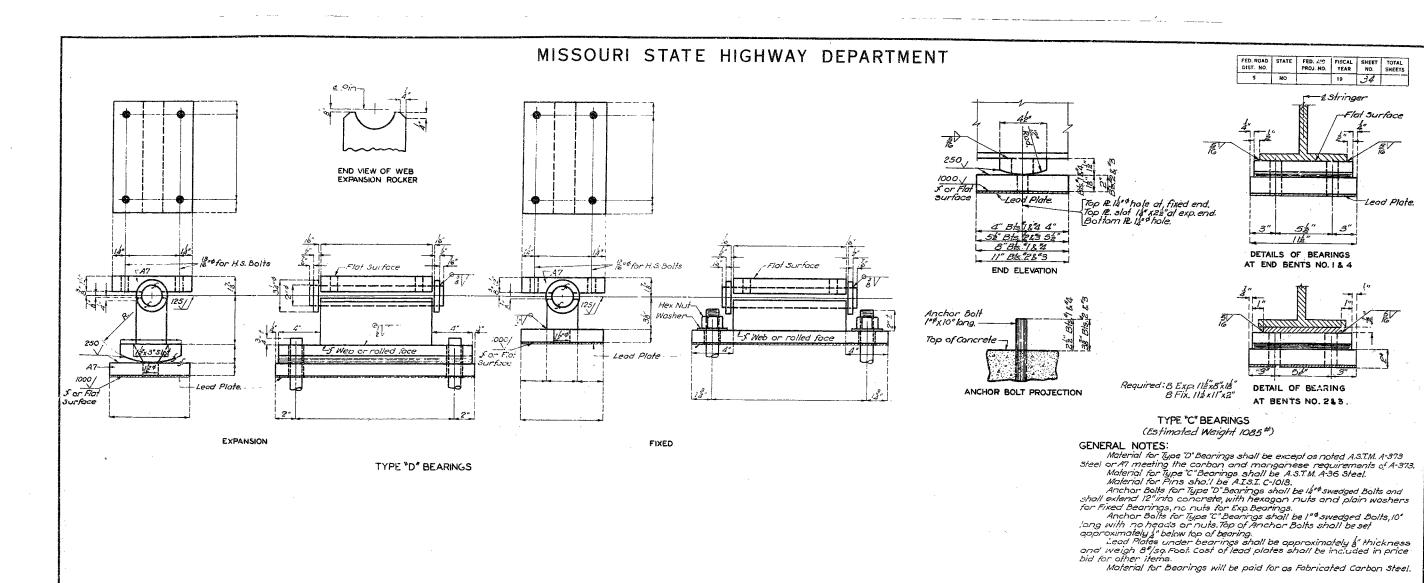


PPERM - TRACING CLOTP, U.S. BLUS, CHICAGO

NO CONSTRUCTION CHANGES Cont. I-Bm.

Hi5 (I-Lane) 20' Rdwy.

Feb. **196**1



FINISHED

BRIDGE OVER MILL CREEK

STATE ROAD FROM FOREST CITY TO FORBES ABOUT 6.0 MILES N. W. OF FORBES PROJECT NO. S-1236()) (ST.) STA, 124+81.0

HOLT

FINISHED

COUNTY

FINISMED

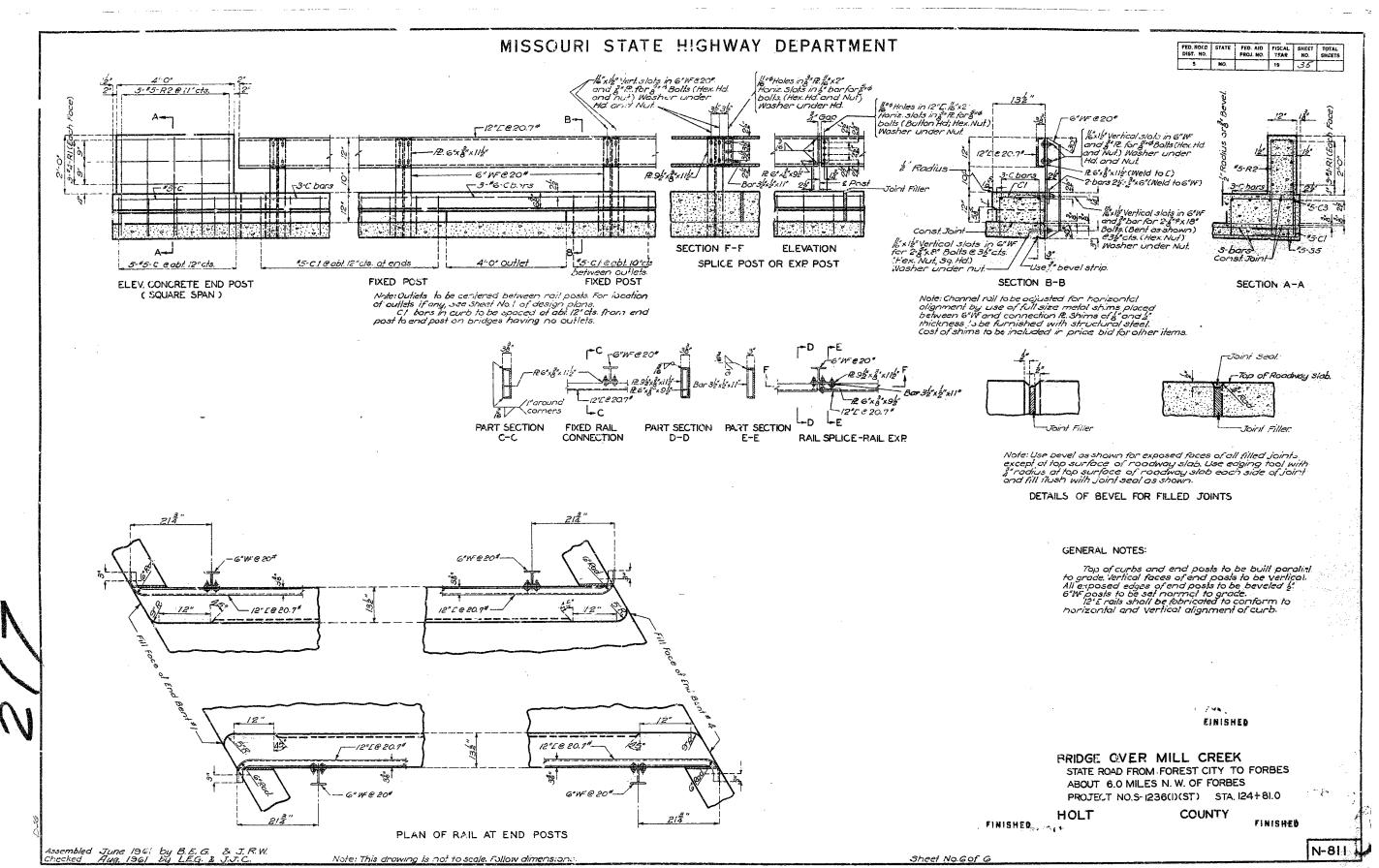
Assembled June 1961 by B.E.G. & J.R.W. Checked Aug. 1961 by LEG. & J.J.C.

A Committee of the second

Note: This drawing is not to scale. Follow dimensions

N-811

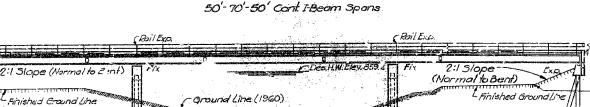
Lead Plate



medical control of the same

MISSOURI STATE HIGHWAY DEPARTMENT

FEU. ROAD STATE FED. AID FISCAL SHEET DIST. NO. PROJ. NO. YEAR NO.



Concrete Pile Note: All pilling were . sast in place concrete piles (9) (Thick shell) Trestle Type in accordance with Standard 52.02 for concrete piles. Esumated quantities shown on plans are based on the following lengths: 8 @ 45 0 for Bents No: 184 and 12 @ 500 for Bents No: 184 to give required bearing

Cast-In-Flace

Concrete Pile

Gr. Elev. 865.00 ? □□

and penetrotion was determ med by the Contractor. ... siling inted and All piles were driven to the minimum

ang Palikina nasahitu.

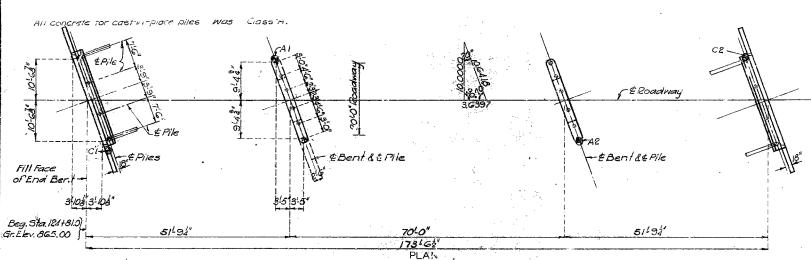
Stragin Beri Elev. 841.0 GUNERAL ELEVATION

-Cast ir. Place

Castin-Place Cost-in-Place Note Excavation of all existing materials under bridge was made to Elev. 056.0 and not less than 4.0 outside of curb line Payment for this excavation outside the Concrete Pile Concrete Pile limits of excovation for substructure m made at unit contract price for Roadway Excavation. DATA FOR PILE DRIVING

Elev. 85G.O

1&4 2&3 28.5 30.0 19.0 28.0 Bent No. "Plan" Copacity Per Pile "Computer." Capacity Reald, Far Pile Min Benetration (9le 11la Elev.)



Note: For log of soundings see Sheet No. 2 of G.

							·	05 DE		0000	0 0755	-	
	 	,- <u>,</u>		-	***			OF RE					
	<i>No.</i>				Lucation	No				Location.		<u>tches</u>	&Cutting Diagram
	16		nd Ben 27-6"	<i>†</i> 3/∐ <i>H</i> /	0.144 Beom	020		perstru 3'0"	CI	Curb	194	3-26	10" 2:5"
	4	#G	25'3"		Desam	12	6	27'0"	C2	CUTO	1		
	4	*G	23'-6"	H3				36-0	C3		ł /		/
	12	#6	8:0"		Wing	12	# G	26'0"	C4		l		
	4	#4	23'-6"	H=		<u> </u>			-		[[[]]]	-70	(- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	4	#6	8'3'		Wing	568	5	22'0"	31	Slab	3'28" 20	94.	2.5" 6.7"
/s						348	*4	30°0"	52		24:0	لسد	9.0"
.0	L			L.	L		*4	16'0"	53	,] 12 -S4 CU	T 24	6-V2 CUT 12
nes.		#5	50"		BKWall	24		24'0"	54	•	1		. 1"
e		* 6	9'0"		Wings	2	4 5	23-3"	55	*		181	5-52 77
NO5	4	#4	646"	V3	Bkwall			1	<u> </u>		1	83	2-10-72
	50	#4	1/13"	,,,,	<i>a</i>	<u> </u>			ļ			36.2%	LA SE DO
	50	#1	3-3"	<i>U1</i>	Beam "	├	<u> </u>	<u> </u>	<u> </u>		J		
	110	-4	3-5	UZ		1		2'24			. 19	\$ 13	1877
	8	* 6	11:3"	71	Wing	l	T"	C 1.4		iz.	82 C/ + 24 U2	1 5	04" 2 TI-T2
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	1		-3	ļ	 	1 . 1		1/2	13	j	- विश		
			+			2:84"		 \	1/5	74,7 D	10.4 mag		24-/1"
				1		16			1 /	=	$\mathbb{Z}_{[C]}$		- C4 //
i			Bents No						الله الم	l a-	·U2		
	20	#G	20'-9"	GI	<i>Beam</i>	1		2 [!] 84"	1				6 6
	0.0		i Francisia	L	! F= :	Į	-	UI					HI SI
		#5			Encasimi	ļ							TH.
	12	" 6	7'-6"	P2	Beam	-		4'18"	_				<i>12"</i> 3
	32	# 4		11-1		l		<u>i</u>					1194
		#4	1. 29° 3'-3"	U3 U2	Beam #	l		- Su	\neg	30			2 2243
		#4	10'0"	U4,		l	(114	니	2.24			164"4
	4	4	10-0	Uzr	<u> </u>	ĺ	\						16404
	48	\$5	10'-9"	VA	Encasin+	1		PI 2 ¹ /8"					1 3
	,,,			1				2-18	-				3-24
				T-		1		ــــــــــــــــــــــــــــــــــــــ		7			<u> </u>
						1			*_	_ [U3-U4
						1			5				03.04
						1	\			J			
						Į .		P2					

Design Specifications A.A.S.H.O.-1957. Loading HIS-44 (1-Lane) Loading HIS 44 (1-lane)
Structural Steel Stress (A.S.T.M. A7-581) (8,000 fm",
Structural Steel Stress (A.S.T.M. A36-601) 20,000 fm",
*inforcing Steel Stress (20,000 fm",
*in B. Concrete Stress (1,000 fm",
Class B.I. Concrete Stress (1,000 fm",
Superstructure concrete was Class B.I. (Air Entrained)
Substructure concrete was Class B.I. (Air Entrained)
Substructure concrete was Class B.I. (Air Entrained)
Field connections were riveted exceed as noted in backer. C.B.&Q Railroad Beg. Sta. 124+81.0-E Roadway Field connections were rived except as noted in handrail details or if the Contractor desires to eliminate all field riveting on this project, he used high New strength steel bolls with hardened washers 15 the bearn splices and machine. Structure bolts for other field connections theads and nuts of machine boils were American Shandard Feguliar.

Where joint filler is scenified on the plans it conformed with the medice. For Structures.

Ments of Section 157.2. For the Standard Specifications.

Ments of Section 157.2. For the Standard Specifications.

Ments of Section 157.2. For the Standard Specifications.

Ments of Section 157.2. For the Standard Specifications of botted field connections, except the Final pay weight for Fabricated Structural Carbon Steet was based where high strength bolts are used for each of real lead and surfaces inaccessible after on using field rivets except for bolts towns clions specified for handrail. erection three coats of real lead to other paint was applied by Contractor Poyment for cleaning and painting such surfaces, was included by Contractor.

Corbon Steet, Real lead required was furnished by Contractor.

Qualification of westing Corbon Steet for wide flange beams and spice plaiss was A.S.T. M.

A3G-GO Tandall other steet was A.S.T.M.A7-58T except as noted for steet piles in Section 52.4.7 of the Standard Spice plais was painted as specified for steet piles in Section 52.4.7 of the Standard Spice of Standard Spice Plansions.

Note: The devine is not as sectional spice plans on the sectional spice plans on the sectional spice plans and spice plans on the sectional spice plans and spice plans on the sectional spice plans are the sectional spice plans and spice plans on the spice plans are the sectional spice plans and spice plans are the spice plans and spice plans are the spice plans and spice plans are the spice plans are the spice plans are the spice plans and spice plans are the spice Standard Fegular. Drainage Area: 22.0 Sq.Mi. (Lt. Killy)

GENERAL NOTES

FINAL	QUANTITIES	3		
Item		Substr.	Superstr.	Total
Class Excavation for Structures	Cu.Yas.	820		82.0
Class B Concrete	Cu.Yds.	54.4		54.4
Class B' l Concrete	Cu. Yds.		879	87.9
Fabr. cated, Structural Carbon Steel	ı.bs.		82360	87360
Reinforcing Steel	Lbs.	4630	-23610	.28240
Cast in Place Concrete Piles	Lin. Ft.	803		803
			1	,

Note: All excavation for bridge was - paid for as Class / Excavation

COUNTY FIHISHED

STA.124+81.0

B.M. Elev. 865.90 "0" on Center N.E. Wing, 12'Lt

STATE ROAD FROM FOREST CITY TO FORBES

BRIDGE OVER MILL CREEK

ABOUT 6.0 MILES N.W. OF FORBES

PROJECT NO.S-1236(I)(ST)

EINISHED

STU. 32.02 STQ 5400 N-81

Sheet No. IA of L

FINAL PLANS

Drawn Oct. 1960 by B.R.G. Checked Aug. 1961 by LEG. & J.J.C.

LOCATION SKETCH

Note: This derwing is not to scale Follow Namension

Sta. 124+78.



STRUCTURAL REHABILITATION CHECKLIST

DECK REPAIRS (Deck repair quantities are required even if a Deck Test request has been ordered for this structure.) * Half-sole repairs:	Bridge No.:	N0811		Job No.:	JNW0008	
* * * Please include photographs for all items that apply. * * * OVERLAY * Type of existing overlay:	Route:	Т		Over:	Mill Creek	
* Type of existing overlay: None Asphalt Low Slump Silica Fume Latex Epoxy Other: * Existing overlay thickness:	County:	Holt		Date of Field Ch	eck: 11/08/202	22
* Type of existing overlay: None		* * * Please i	nclude photo	graphs for all item	s that apply. * * *	
* Type of existing overlay: None						
* Existing overlay thickness:		_		_		
* % of overlay repaired or patched:	•		✓ Asphalt	Low Slump Sil	ica Fume Latex Epoxy	Other:
* Notes: DECK REPAIRS (Deck repair quantities are required even if a Deck Test request has been ordered for this structure.) * Half-sole repairs:	* Existing overlay t	hickness:	"	* Year overlay w	as applied:	Unknown
DECK REPAIRS (Deck repair quantities are required even if a Deck Test request has been ordered for this structure.) * Half-sole repairs:	* % of overlay repa	nired or patched:	<u>%</u>	* Replace overlay	Yes No	
DECK REPAIRS (Deck repair quantities are required even if a Deck Test request has been ordered for this structure.) * Half-sole repairs:	* Notes:					
* Half-sole repairs: sq. ft. * Full depth repairs: sq. ft. (round up to the nearest 50 sq. ft.) * Existing deck repair (patching): sq. ft. (round up to the nearest 25 sq. ft.) * Slab edge repairs: lin. ft. (covers the outer 4" of the slab edge) (covers the remaining slab cantilever beyond the outer 4") * Clean & epoxy coat slab edge: lin. ft. (covers the remaining slab cantilever beyond the outer 4") * Total surface hydro demolition of bridge deck: Yes No Full deck replacement (redeck): Yes No Optio (half-sole, full depth and exist. deck repair quantities still required) * Superstructure replacement (redeck): Yes No Optio (minimum of 10% of half-sole repair quantity) * Full bridge replacement: Yes Yes No Optio (Deck repair quantities required for cost comparison of alternati Plane Report Plane	110165.					
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* Clean & epoxy coat slab edge:				_		
* Total surface hydro demolition of bridge deck: Yes No * Full deck replacement (redeck): ✓ Yes No Optio (half-sole, full depth and exist. deck repair quantities still required) * Superstructure replacement: Yes ✓ No Optio * Deck repairs with voided tube replacement: Yes No Full bridge replacement: Yes ✓ No Optio sq. ft. * Full bridge replacement: Yes ✓ No Optio (Deck repair quantities required for cost comparison of alternation of the sq. ft. * How were the quantities obtained? Visual Bridge Inspection Report Sounded Other						
(half-sole, full depth and exist. deck repair quantities still required) * Superstructure replacement:		_	nn. n.	" Cantilever	replacement:	iin. it.
* Superstructure replacement: Yes No Optio * Deck repairs with voided tube replacement: Yes No Optio * Full bridge replacement: Yes No Optio * Deck repair quantities required for cost comparison of alternation * How were the quantities obtained? Visual Bridge Inspection Report Sounded Other	•				replacement (redeck): ✓ Yes	No Optio
(minimum of 10% of half-sole repair quantity) * Full bridge replacement: ☐ Yes ☑ No ☐ Optio ☐ Optio ☐ Sq. ft. * How were the quantities obtained? ☐ Uisual ☐ Bridge Inspection Report ☐ Sounded ☐ Other	(half-sole, full d	epth and exist. deck i	repair quantities s		cture replacement: Yes	✓ No Optio
sq. ft. (Deck repair quantities required for cost comparison of alternati * How were the quantities obtained? Visual Bridge Inspection Report Sounded Other					e renlacement: Yes	✓ No □Ontio
A N. A. NIA			4		• —	ш .
* Notes: N/A	* How were the qua	antities obtained?	Visual Bri	dge Inspection Report	Sounded Other	
	* Notes: N/A					

Spans			Location in Span	Deterio	ration	Describe
	At	Btwn (mid)		Туре	Amount	
	Panel Jt.	Panel Jt.	End Mid End		sq. ft	
					sq. ft	
					sq. ft	
		П			sq. ft	
	<u> </u>	П			sq. ft	
					sq. ft	
	-		tion, efflorescence, rust stainin ear panel joints. The location o		~ .	
at joints, etc.	Typically ob		**		~ .	
nt joints, etc.	Typically ob		ear panel joints. The location o		~ .	recorded.)
PROACH S	Typically ob	oserved at or n	ear panel joints. The location of	* Type: [leterioration should be	recorded.)
PROACH S Is there a	LABS bridge appr	oach slab in p	lace? Yes No	* Type: [* Type: [Concrete ✓ Aspha	recorded.)
PROACH S Is there a list there rd Is the apprix	LABS bridge appr wy. approa	oach slab in p ch pavement i inking at the o	lace? Yes No	* Type: [* Type: [* Type: [Concrete ✓ Aspha Concrete ✓ Aspha	recorded.)
PROACH S Is there a l Is the approach to the series of t	LABS bridge appr wy. approa roach slab s	oach slab in p ch pavement i inking at the o	lace? Yes No in place? Yes No end bent? N/A Yes proach slab driving surface?	* Type: [* Type: [* Type: [Output	Concrete ✓ Aspha Concrete ✓ Aspha	lt Other

4
SLAB DRAINS
* Is the drainage system working adequately? Yes No
* Recommendations:
* Notes:
Picture DSCN3605, DSCN3603 #
*
5
CURBS & RAILS
* Existing curb (left side): Safety Barrier Curb Curb/parapet Blockouts Thrie Beam Baluster Steel Channel
Other Handrail Fence
* Does curb need repai Yes No * Curb repair lin. ft.
* Remove hand rail Yes No * Add curb blockou Yes No
* Existing curb (right side): Safety Barrier Curb Curb/parapet Blockouts Thrie Beam Baluster Steel Channel
Other Handrail Fence
* Does curb need repai Yes No * Curb repair lin. ft.
* Remove hand rail Yes No * Add curb blockou Yes No
* Existing median curb: Type: Width " Height "
* Does curb need repai Yes No * Curb repair lin. ft.
* Approach rail attachment: None Not attached 4 Hole 5 Hole Turn-down Other
Approach ran attachment. Vivone Liver attached 14 Hole 15 Hole Liun-down Louisi
* If the existing handrails will be removed, does the local maintenance supervisor wish to keep them?
Storage address: location:
address:
city: state: zip:
* Notes:
Picture DSCN3605, DSCN3603

Effective: May 2020 Supersedes: June 2013 3 of 9

	N DEVICES				
Bent	Туре	Recommendations	Gap Left	Gap Right	Temperature & Other Info
			"	"	
			"	"	
		ACE -		"	
		USE-IN-PLACE			
			 "	 "	
		_	"	"	
			"	"	
* Notes: <u>N/</u>	<u>'A</u>				
_					
ure					
BEARINGS					
Bent	Coating	Recommen	dations	Notes (indicat	e which bearings at each bent)
N 1				Replace all 4	
2	RECOAT		AKE END BENT SLIDING SL.		
		PLACE	ST T EBENT SLIDING BENT SLIDING BENT INTEGI		
3	N & OVEJ	USE-IN-PLACE			_
S 4	_	USE RF T _F RF		Replace all 4	
	CLEA)			-	
* Notes:					
* Notes:					
ıre # (Provide P	cictures of Each Bean				
ure # (Provide Po N3612, DSCN3	8619, DSCN3620, DS		3624, DSCN3625,	DSCN3626, DSCN	3632, DSCN3633, DSCN3634,
ure # (Provide Po N3612, DSCN3	8619, DSCN3620, DS	SCN3621, DSCN3623, DSCN	3624, DSCN3625,	DSCN3626, DSCN	73632, DSCN3633, DSCN3634,
ure # (Provide P CN3612, DSCN3 CN3635, DSCN3	8619, DSCN3620, DS	SCN3621, DSCN3623, DSCN	3624, DSCN3625,	DSCN3626, DSCN	73632, DSCN3633, DSCN3634,
ure # (Provide Provide	3619, DSCN3620, DS 3636, DSCN3637, DS 3STEM (PAINT)	SCN3621, DSCN3623, DSCN		DSCN3626, DSCN	73632, DSCN3633, DSCN3634,
re # (Provide Provide	S619, DSCN3620, DS S636, DSCN3637, DS STEM (PAINT)	SCN3621, DSCN3623, DSCN SCN3638, DSCN3639	[_green √gray	other
wre # (Provide P. N3612, DSCN3 N3635, DSCN3 COATING SY * Existing c	2619, DSCN3620, DS 2636, DSCN3637, DS 2STEM (PAINT) 2 coating system:	SCN3621, DSCN3623, DSCN SCN3638, DSCN3639 * Is existing	g coating peeling?	green	other not an option) \No
wre # (Provide P. CN3612, DSCN3 CN3635, DSCN3 COATING SY * Existing c * Date last of	S619, DSCN3620, DS S636, DSCN3637, DS STEM (PAINT)	SCN3621, DSCN3623, DSCN SCN3638, DSCN3639 * Is existing	[green	other
wre # (Provide P. CN3612, DSCN3 CN3635, DSCN3 COATING SY * Existing c * Date last of	2619, DSCN3620, DS 2636, DSCN3637, DS 2STEM (PAINT) 2 coating system:	SCN3621, DSCN3623, DSCN SCN3638, DSCN3639 * Is existing ✓ Blast clean	g coating peeling?	green	other not an option) \No
wre # (Provide P. CN3612, DSCN3 CN3635, DSCN3 COATING SY * Existing c * Date last of	2619, DSCN3620, DS 2636, DSCN3637, DS 2STEM (PAINT) 2 coating system:	3	g coating peeling?[n & recoat all steel n & recoat only at journs f test required for o	green ✓ gray Yes (Overcoat is Clear oint locatic Blast clean	other not an option) \No & overcoat all steel & recoat at joint locations and
wre # (Provide P. CN3612, DSCN3 CN3635, DSCN3 COATING SY * Existing c * Date last of	28619, DSCN3620, DS 28636, DSCN3637, DS 28TEM (PAINT) 20ating system:	3 * Is existing Blast clean Note: Pull-of	g coating peeling? a & recoat all steel a & recoat only at journ of test required for one of the coat only of tests.	green ✓ gray Yes (Overcoat is Clear oint locatic Blast clean	other not an option) No & overcoat all steel & recoat at joint locations and & overcoat all other steel

Concrete	e Slab Superstructui	re or Girder: (abov	e the bearings)		
		oided slabs, box girde	ers,		
aeck gira	lers & prestressed gir	ders)	_		
	Example: Beams, stri (Check all that app	ingers, girders, diaph lv) (Attach pictures)	ragms, cross-frame	s, misc. steel)	Describe & Locate
		2, (1 ,			
	Section	on Loss %	Cracks	in.	
	Section	on Loss %	Cracks	in.	
	Section	on Loss %	Cracks	in.	
	Saatia	on Loss %	Cracks	in.	
	Section	II LOSS /0	Clacks	<u> </u>	
Matan	N/A				
Notes					
2	CTURE REPAIR		Seel Connecte	Cont Evnovad Bila	
2		Unformed Repair	Seal Concrete Beam Cap Bts.	Coat Exposed Pile @ Int. Pile Cap Bts.	Describe (Beam, Backwall, Wing, e
UBSTRU	CTURE REPAIR	Unformed Repairsq. ft.		•	Describe (Beam, Backwall, Wing, e
UBSTRU Bent	CTURE REPAIR Formed Repair	·	Beam Cap Bts.	@ Int. Pile Cap Bts.	Describe (Beam, Backwall, Wing, e
UBSTRU Bent N 1	CTURE REPAIR Formed Repair sq. ft.	sq. ft.	Beam Cap Bts. Ves No	@ Int. Pile Cap Bts.	
UBSTRU Bent N1	CTURE REPAIR Formed Repair sq. ft. sq. ft.	sq. ft.	Beam Cap Bts. Yes No Yes No	@ Int. Pile Cap Bts. Yes No Yes No	2 Piles
UBSTRU Bent N1 2 3	CTURE REPAIR Formed Repair sq. ft. sq. ft. sq. ft.	sq. ftsq. ftsq. ft.	Beam Cap Bts. Yes No Yes No Yes No	@ Int. Pile Cap Bts. Yes No Yes No Yes No	2 Piles
UBSTRU Bent N 1 2 3 8 4	CTURE REPAIR Formed Repair sq. ft. sq. ft. sq. ft. sq. ft. sq. ft. sq. ft.	sq. ft. sq. ft. sq. ft. sq. ft.	Beam Cap Bts. Yes No Yes No Yes No Yes No Yes No	@ Int. Pile Cap Bts. Yes No Yes No Yes No Yes No	2 Piles 2 Piles

11 SIGNS, SIGNALS &/OR LIGHTING ATTACHED TO STRUCTURE	
* Are there signs attached directly to this structure? Yes No quanti	itylocation
* Describe proposed work to be done to signs.	
* Are there signals attached directly to this structure? Yes No quanti	itylocation
* Is there aviation lighting attached to this structure? Yes No * Is there navigational lighting attached to this structure? Yes No	N/A
* Is there roadway lighting attached to this structure?	qnty. qnty.
* Describe proposed work to be done to lighting.	
* Notes: N/A Picture # 12 UTILITIES ATTACHED TO STRUCTURE	
Type Qty. Size Owner	Condition
Conduit Pipeline Other	Repaint Repair Replace Remove
Conduit Pipeline Other	Repaint Repair Replace Remove
Conduit Pipeline Other	Repaint Repair Replace Remove
Conduit Pipeline Other	Repaint Repair Replace Remove
* Notes: N/A	_
Picture	

			ve Do not alter Abandon in place (grooved sys
* Is it on and working? Yes		Jnknown	
* Notes:			
re			
CHANNEL ALIGNMENT, SLOPE		& SCOUR	
* Is channel aligned to bridge ope	ening?	No Describe	
* Is drift a continual problem?	Yes	✓No Describe & Locate	Along banks under bridge and erosion at both
* Is erosion a problem?	✓Yes	No Describe & Locate	e e
* Describe slope protection in place	ce. None		
* Scour At Footing A	at Piling 1	Depth Ben	t Recommendation
_			
* Describe needed work. Roc	k and rip-rap alo	ng banks and under bridg	ge neat abutments
* Describe needed work. Roc	k and rip-rap alo	ng banks and under bridg	ge neat abutments
* Describe needed work. Roc	k and rip-rap alo	ng banks and under bridg	ge neat abutments
	k and rip-rap ald	ng banks and under bridg	ge neat abutments
* Describe needed work. Roc Poscological Roce Roce Poscological Roce Roce Poscological Roce Roce	k and rip-rap ald	ng banks and under bridg	ge neat abutments
	k and rip-rap alo	ng banks and under bridg	ge neat abutments
Pe DSCN3606, DSCN3607	k and rip-rap alo	ng banks and under bridg	ge neat abutments
Pe DSCN3606, DSCN3607 CRAFFIC LANES			
Pe DSCN3606, DSCN3607	k and rip-rap alo		ge neat abutments
* Number of lanes striped:	on structure		nder structure
Pe DSCN3606, DSCN3607 CRAFFIC LANES			
* Number of lanes striped:	on structure	2 u (left) (right) u	under structure
* Number of lanes striped: * Shoulder width: None * Sidewalk widths:	on structure on structure on structure	2 u (left) (right) u (left) (right)	inder structure inder structure
* Number of lanes striped: * Shoulder width: None	on structure on structure	2 u (left) (right) u (left) (right)	under structure
* Number of lanes striped: * Shoulder width: None * Sidewalk widths: * Median width:	on structure on structure on structure	2 u (left) (right) u (left) (right) u	under structure under structure
* Number of lanes striped: * Shoulder width: None * Sidewalk widths:	on structure on structure on structure	2 u (left) (right) u (left) (right) u	inder structure

GENERAL AREA CONDITIONS
* Primary area: Commercial Industrial Residential Agricultural Military Other
* Posted speed limit on structure:mph
* Posted load on structure:tons @mph \[\subseteq NA \] * Are both signs in place?
Single Unit:tons @mph
* Do pedestrians and/or bicyclists regularly use this structure? Yes No Undetermined
* Notes:
Picture DSCN3603
17
MAINTENANCE
* What work has been done to this structure that may not be reflected on existing bridge plans? Various patching of the deck
Picture DSCN3605
#
ADDITIONAL FIELD NOTES
Picture #

* Traffic Control: \[\sqrt{Close structure} \] Stage construction on structure \[\sqrt{Cross over traffic to adjacent structure} \] Detour \[\] \[\sqrt{Other option} \] * Define probable detour route. \[\] * Date \[\] * Define probable detour route. \[\] * Detour \[\] * Define probable detour route. \[\] * Define probable detour route. \[\] * Define probable detour route. \[\] * Detour \[\] * Detou								_	
* Define probable detour route	* Traffic Co	ntrol: ✓ Close structure	Stage construc	tion on structure Cross over tr	affic to ad	jacent s	structure	Deto	our
Name Joyce Reynolds Title Project Manager Ph. (816) 387 - 24 Name Bryce Acton Title District Bridge Engineer Ph. (816) 390 - 36 Name Title Ph. () - Name Date Transportation Project Manager		Other option							
Name Joyce Reynolds Title Project Manager Ph. (816) 387 - 24 Name Bryce Acton Title District Bridge Engineer Ph. (816) 390 - 36 Name Title Ph. () - Name Title Ph. () - Name Title Ph. () - Name Date Transportation Project Manager	* Define pro	bable detour route							
Name Joyce Reynolds Title Project Manager Ph. (816) 387 - 24 Name Bryce Acton Title District Bridge Engineer Ph. (816) 390 - 36 Name Title Ph. () - Name Title Ph. () - Name Title Ph. () - Name Date Transportation Project Manager									
Name Joyce Reynolds Title Project Manager Ph. (816) 387 - 24 Name Bryce Acton Title District Bridge Engineer Ph. (816) 390 - 36 Name Title Ph. () - Name Title Ph. () - Name Title Ph. () - Name Date Transportation Project Manager									
Name Joyce Reynolds Title Project Manager Ph. (816) 387 - 24 Name Bryce Acton Title District Bridge Engineer Ph. (816) 390 - 36 Name Title Ph. () - Name Title Ph. () - Name Title Ph. () - Name Date Transportation Project Manager									
Name Joyce Reynolds Title Project Manager Ph. (816) 387 - 24 Name Bryce Acton Title District Bridge Engineer Ph. (816) 390 - 36 Name Title Ph. () - Name Title Ph. () - Name Title Ph. () - Name Date Transportation Project Manager									
Name Bryce Acton Title District Bridge Engineer Ph. (816) 390 - 360 Name Title Ph. () - Name Title Ph. () - Name Title Ph. () - Name Ph.	ERSONS ASS	ISTING WITH CHECKLIS	ST						
Name Title Ph. () - Name Title Ph. () - Name Title Ph. () - Name Ph. () - REQUIRED SIGNATURES I have reviewed the information on this checklist and believe it to be as accurate as possible. Name Date	Name	Joyce Reynolds	Title	Project Manager	Ph.	(81	6) 387	7 -	2411
Name Title Ph. () - Name Ph. () - EQUIRED SIGNATURES I have reviewed the information on this checklist and believe it to be as accurate as possible. Name Date Transportation Project Manager	Name	Bryce Acton	Title	District Bridge Engineer	Ph.	(81	6) 3 90) -	3641
Name Title Ph. (Name		Title		Ph.	()	-	
Name Date			Title		Ph.	()	-	
Name Date	Name				Dh	()	-	
Name Date Transportation Project Manager			Title		1 11.				
Name Date Transportation Project Manager			Title						
Name Date			Title		T II.		,		
Transportation Project Manager	Name		Title		111.				
Transportation Project Manager	Name	GNATURES					,		
Transportation Project Manager	Name	GNATURES							
	Name REQUIRED SIG	GNATURES			possible.				
Name Bryce Acton Date 12-6-2022	Name REQUIRED SIG I have	GNATURES reviewed the information of			possible.				

The structural rehabilitation checklist indicates how the bridge is functioning and aging.

All deterioration should be noted, even if it is known that the work will not be completed under the proposed project.

Send NEW Structural Rehabilitation Checklist by email

To: "Bridge Survey Processor"

Cc: Structural Project Manager or Structural Resource Manager



Concrete Pile

(45-60-45') Cont. I-Bm. Spans (Composite) Gr. Elev. 1027.00-Exp. 2:1 Slope (Normal to Bt) Des. H.W. Elev. 1022.0 -E: | Slope (Normal to Bt.) -Ground Line (1961) -Elev. 1021.0 Finished GroundLine Concrete Pile Note: Old roadway fill under ends of bridge shall be removed to natural ground line or to Elev. 1021.0 if ground is above this elevation. Payment for this excavation outside the .W. Elev. 1003.3 limits of excavation for substructure will be made at unit contract price for Roadway Excavation.

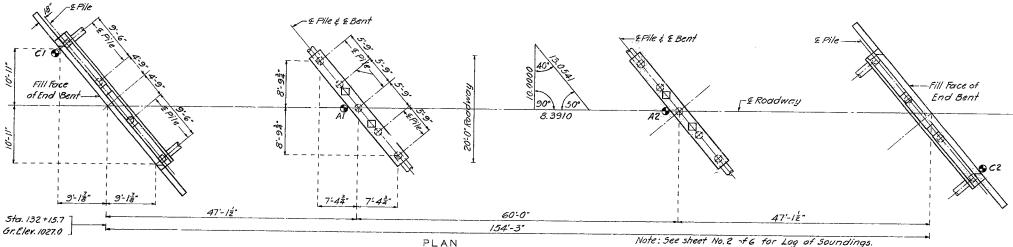
Present Structure

To be removed

DATA FOR PILE DRIVING Bent No. Plan Capacity Per Pile 29.5 T 30.0 T Computed Capacity Per Pile 19.5 T 27.0 T Min. Penetration (Pile tip Elex) 280.0 280.0

Note: All piling shall be cast-in-place thick shell) trestle type concrete piles and shall conform with details and notes on Standard 52.02 except as otherwise specified. Estimated quantities shown on plans are based on the following lengths: 8@60.0" for Bents No.1 & 4 and 10@ to-0" for Bents No. 2 & 3. These indicated lengths are approximate only. Proper lengths to give required bearing and penetration are to be determined by the Contractor.

All piles shall be driven to the minimum penetrations noted and to not less than the specified "Plan capacities unless excessive lengths are required to "btain" Plan" capacities in which cases the Engineer will authorize lesser capacities, but in no cases below "Computed" capacities.



GENERAL NOTES:

GENERAL ELEVATION

Design Specifications A.A.S.H.O.-1961

Loading HI5-44 (I-Lone)

Structural Steel Stress (A.S.T.M. A7-58T) 18,000 % "

Structural Steel Stress (A.S.T.M. A35-60T) 20,000 1/0"

Reinforcing Steel Stress 20,000%

Concrete, Class B Stress 1,200% -

Concrete, Class Bl Stress 1,600% -

Superstructure concrete shall be Class BI (Air-Entrained) Substructure concrete shall be Class B (Air-Entrained)

Rivets 3 \$ h, holes 13 \$ except where otherwise noted.

Field connections shall be riveted except as noted in handrail details or, if the Contractor desires to eliminate all field riveting on this project, he may use High Strength Steel bolts with hardened washers for the beam splices and machine bolts for other field connections Heads and nuts of machine bolts shall be American Standard Regular.

Qualification of welding operators will be required.

Paint: Shop, none; Field, contact surfaces of bolted field connections, except where high strength bolts are used, one coat of red lead and surfaces inaccessible after crection three coats of red lead. No other point to be applied by Contractor except as noted for steel shells of Cast-in-place piles Red lead r quired shall be furnished by Contractor. Payment for cleaning and painting such surfaces will be included in unit price bid for Fabricated Structure Carbon Steel.

Steel shells for cast-in-place piles shall be painted as specified for steel piles in Section 52.4.7 of the Standard Specifications.

Where joint filler is specified on the plans, it shall conform with the requirements of Section 157.2.5 of the Standard Specifications.

Fabricated structural carbon steel for wide flange beams, flange and splice plates shall be A.S.T.M. A36-60T and all other steel shall be A.S.T.M. A7-58T except as noted for bearings.

Permits must be obtained for all truck loads over legal length.

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

		COMPLE	TE (BILL OF	REINFORCING	STEEL
No.	T	Length	Mark	Location	Beriding Sketches	& Cutting Diagrams
		Bents	No. 1	£ 4	2'-14" 88"	2'-53 82"
16	*6	33-3"	HI	Bm.		1-04-1-0E
4	*6	3/-3"	H2	~		F
4	#6	29:0"	H3.	Bk.wall	21:73" 2:12"	6'-04" 2-54
12	16	8 <u>'</u> 3"	114	Wing	23-9	8-6"
4	6	6-0"	H5	"	29-54 Cut 58	6-V2 Cut 12
8	*6	11-6"	TI	Wing		
8	6	10:00	72	"	6	8á* C2
62	14	11-3"	Ul	Bm.	بناء ۔ ۔ نہ	2-54-05 NO V
18	-4	3'-3"	112	,		<u>iö ö</u>
116	25	4.6"	VI	BKWall	25:5" G1	13%
12	4	8-6	V2	Wing	30-8" HI	- 5 0
4	2/	6-0"	V3	"	G1-H1	C2-U2
16 4 16	*6 *6 *4	Bents 1 28:0* 26:0" 3:3" 9:9"	G1 G2 U2 U3	Bm.	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	6-62 71 2-9" 72
	5	perstro	cture	•	10 10 35.6	
12	46	25'0"	<i>C1</i>	Curb	uful 1	
	#5	3:0	CZ		7/-	TZ
	*6	31-0"	c3			
12	16	24'-0"	C4	*	2-24	2'-24"
164	- 5	22:0"	5/	5/06	1/2 1/2	12
	4	26:9"	52	-	1/2	314
	25		53		140	yw _i
	-5		54	-	L	, [0]
	15	28'9"	55	·	2'-84"	<i>U3</i>
-					UI	0.0

Item	*	Substr.	Superstr	Total
Class Excavation for Structures	Cu. Yd.	20	1	20
Cast-in-Place Concrete Piles	Lin.Ff.	1180	1	1180
Class B Concrete	Cu. Yd.	40.0	†	40.0
Class Bl Concrete	Cu. Yd.	1	76.5	76.5
Reinforcing Steel	<i>Lb</i> .	3920	21440	25,360
Fabricated Structural Carbon Steel	16.	<u> </u>		54.750

Note: All excavation for bridge will be paid for as Class I Excavation for Structures * Final pay weight for Fabricated Structural Carbon Steel will be based on using field rivets except for bolted connection specified for handrail.

FIRISHED

B.M = 14 Elev. 1025.22, Spike in brace post 57' Rt. Sta. 129+81

BRIDGE OVER ROCK CREEK

STATE ROAD FROM IOWA STATE LINE SOUTH TO RTE. SB ABOUT 7.5 MILES W. OF WESTBORO

COUNTY

PROJECT NO.S-2109 (1) (SF) STA. 132 + 15.7

ATCHISON

PINISHEL

STD.52.02 STD. 54.00

R-274

SEE FINAL PLANS BROWN-LINES

PINNSHED

Sheet No. / of 6

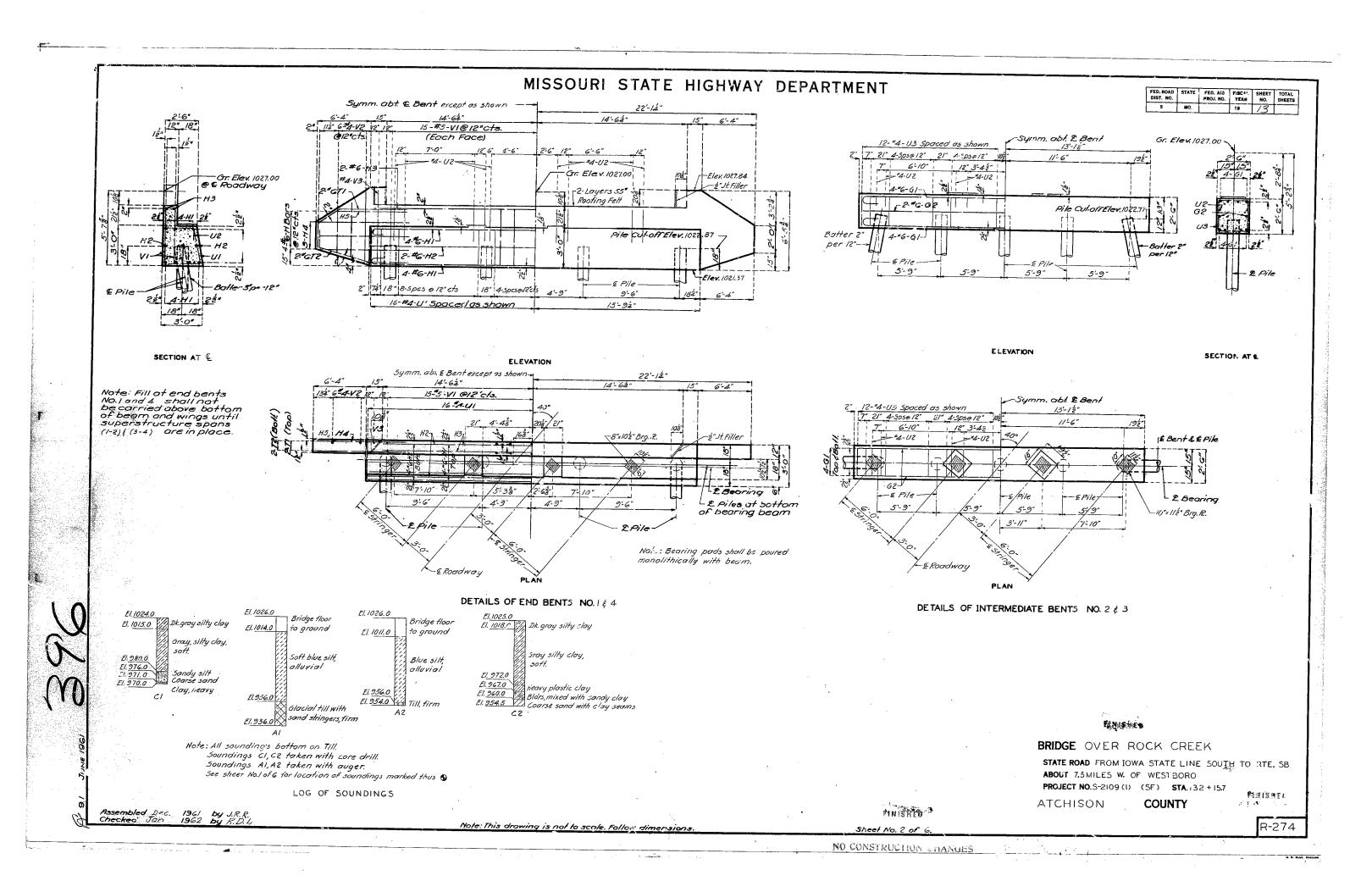
Beg. Sta. 132+15.7

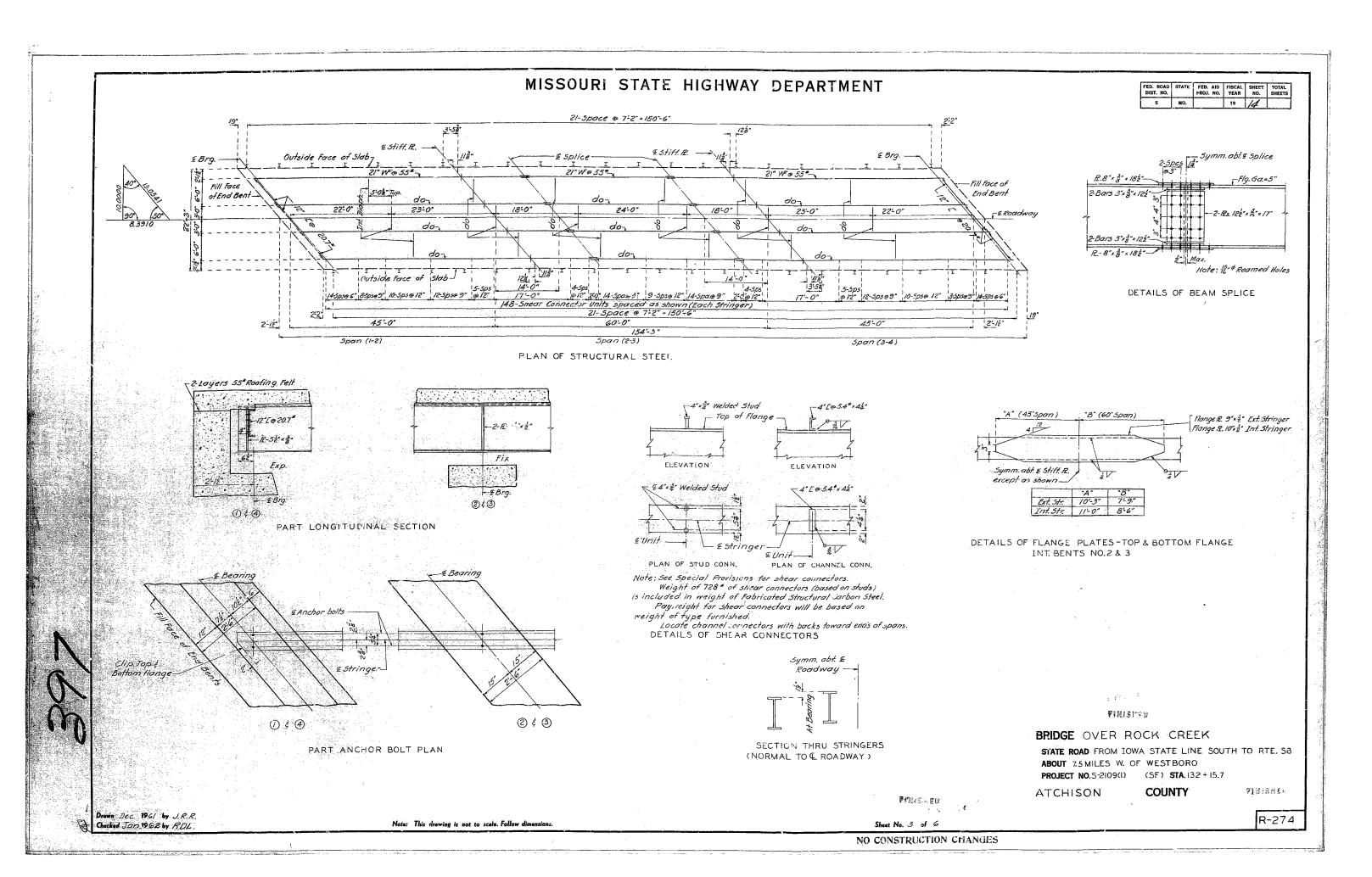
Drainage Area

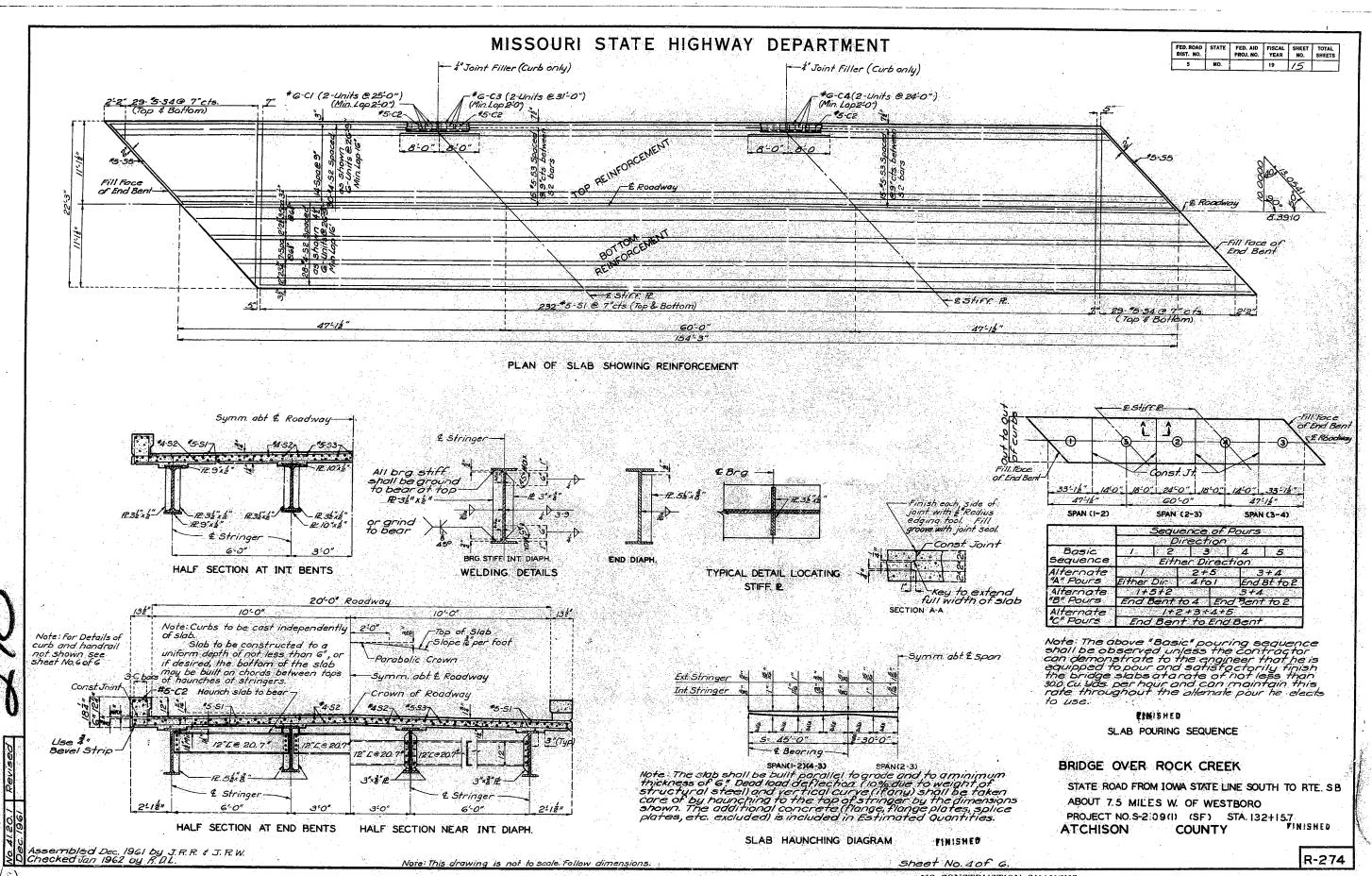
LOCATION SKETCH

15.0 5q.Mi. (1t. Hilly)

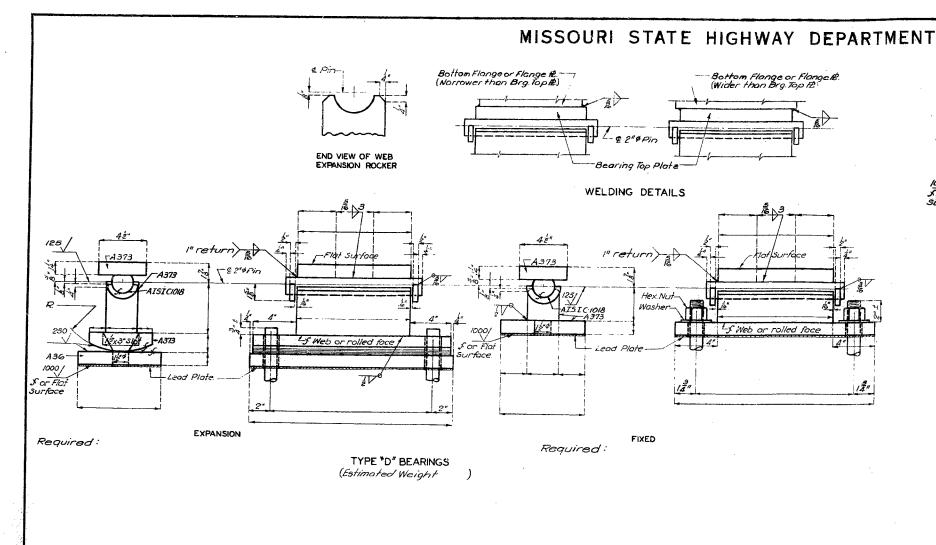
Drawn Dec. 1961 by J.R.R. Checked Jan 1962 by R. D.L.





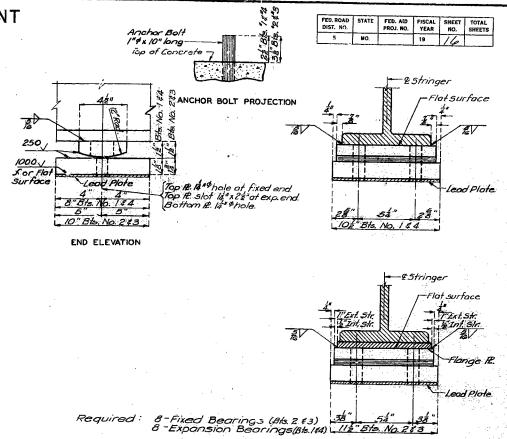


NO CONSTRUCTION CHANGES



Assembled Dec. 1961 by J.R.R. & J.R.W. Thecked Jan 1962 by R.D.L.

"Ibrevial Twacant CLOYA U. S MILE. CHICAGO



TYPE "C" BEARINGS (Estimated Weight 935")

GENERAL NOTES:

GENERAL NOTES:

Material for Type b' Bearings shall be as noted except A.S.T.M. A7 Steel meeting the carbon and manganese requirements of A-373 Steel may be substituted for A-373.

Material for Type b' Bearings shall be A.S.T.M. A-36 Steel.

Anchor Bolts for Type b' Bearings shall be I swedged bolts and shall extend I' into concrete, with hexagon nuts and plain washers for Fixed Bearings, no nuts for Expansion Bearings.

Anchor Bolts for Type C Bearings shall be I's swedged bolts, 10° long with no heads or nuts. Top of Anchor Bolts shall be set approximately 4' below top of bearing.

Lead Plates under bearings shall be approximately 8' thickness and weigh 8' 15g. ft. Cost of lead plates shall be included . I price bid for other items.

Material for bearings will be paid for as Fabricated Structural Carbon Steel "Estimated Weight" does not include weight of anchor bolts.

TINISHED

BRIDGE OVER ROCK CREEK

STATE ROAD FROM IOWA STATE LINE SOUTH TO RTE. S.B. ABOUT 7.5 MILES W. OF WESTBORO PROJECT NO. S-2!09(I) (SF) STA. 132+157

ATCHISON

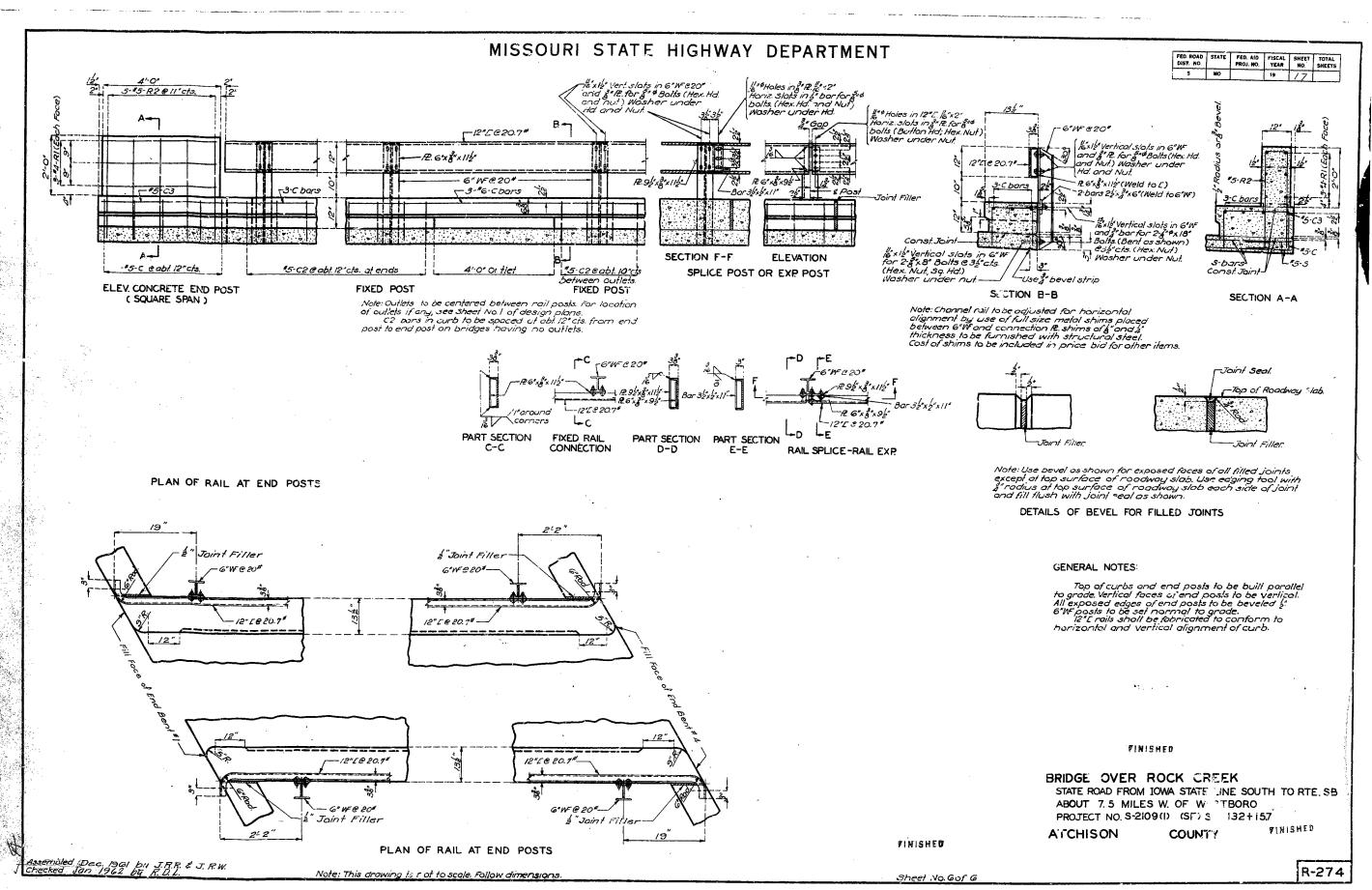
COUNTY

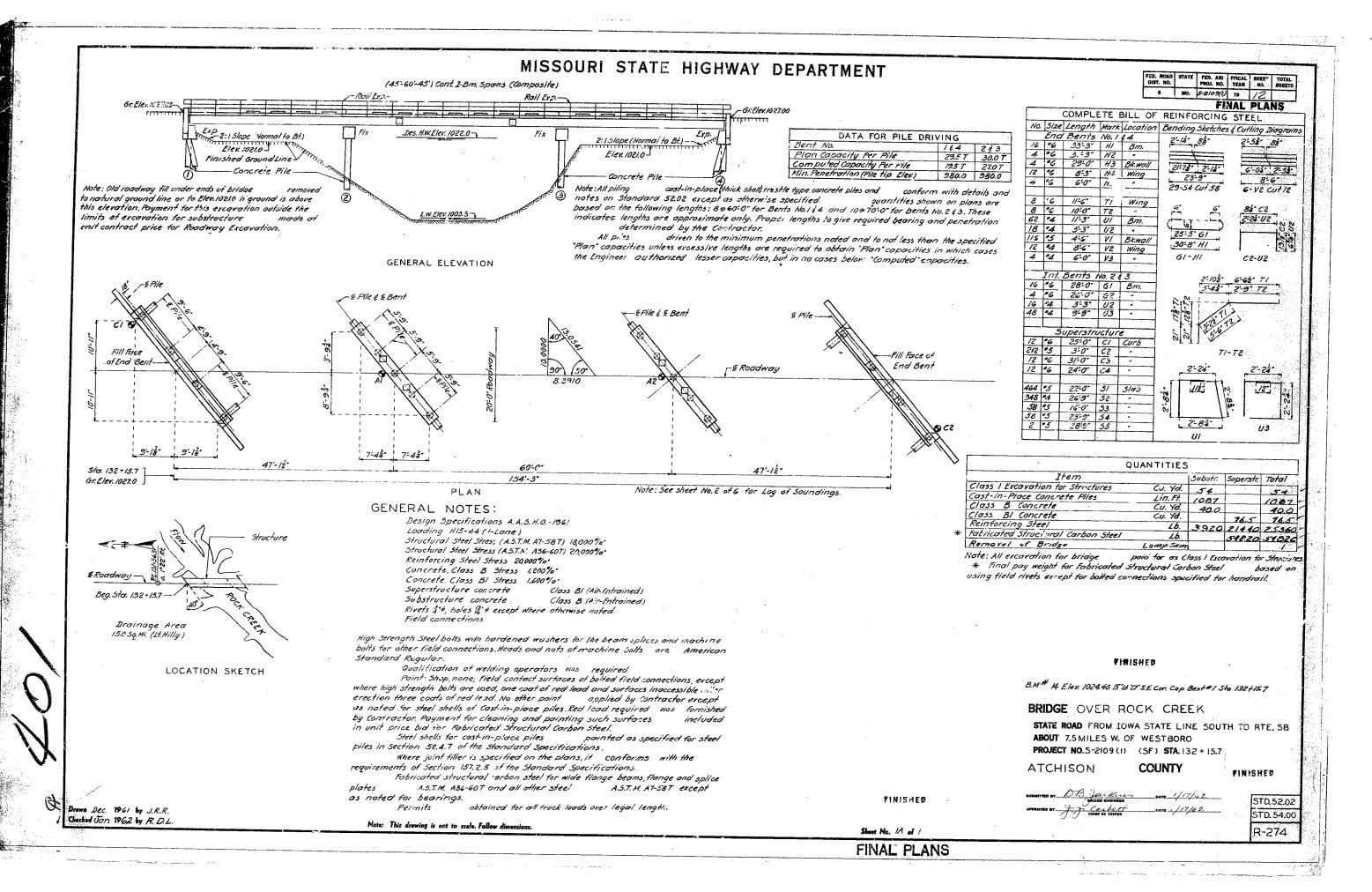
FINISHER

FINISHED

Sheef No. 5of G.

R-274







STRUCTURAL REHABILITATION CHECKLIST

Bridge No.:	R0274		Job No.:	JNW000	8
Route:	F		Over:	Rock Cree	k
County:	Atchison		Date of Field Ch	eck: 11/0	8/2022
	* * * Please in	nclude photog	graphs for all item	s that apply. * * *	
OVERLAY					
* Type of existing o	overlay: None	✓ Asphalt	Low Slump Sili	ica Fume Latex	Epoxy Other: Scrub
* Existing overlay t	thickness:		* Year overlay wa	as applied:	✓Unknown
* % of overlay repa	aired or patched:	%	* Replace overlay	Y: Yes	No
* Notes:					
ure DSCN3466					
DECK REPAIRS (T)	Deck renair auantities	are required even	if a Deck Test request h	has been ordered for this s	tructure)
* Half-sole repairs:		-	* Full depth		
	nearest 50 sq. ft.)	sq. ft.		p to the nearest 50 sq. ft.)	sq. ft.
* Existing deck rep		sq. ft.			
(round up to the	e nearest 25 sq. ft.)				
* Slab edge repairs	: er 4" of the slab edge)	lin. ft.	_	cture repair (Unformed): the remaining slab cantile	
* Clean & epoxy co		1: A		replacement:	
(in lieu of edge		lin. ft.	" Cantilever	replacement:	lin. ft.
* Total surface hyd	lro demolition of bri	dge deck: Yes	✓ No * Full deck i	replacement (redeck): 🗸	Yes No Option
(half-sole, full a	lepth and exist. deck r	epair quantities si		cture replacement:	Yes No Option
	voided tube replace		√No		Yes No Option
,	. ft.	quaniiiy)		quantities required for cos	
* How were the qua	antities obtained?	Visual Brid	lge Inspection Report	Sounded Other	
* Notes:					
ure DSCN3466					

Spans	_		Location in Span	Deterio	ration	Describe
	At	Btwn (mid)		Type	Amount	
	Panel Jt.	Panel Jt.	End Mid End		sq. ft	
					sq. ft	
					sq. ft	
					sq. ft	
					sq. ft	
	_ 🗆				sq. ft	
	n may includ		ttion, efflorescence, rust staining ear panel joints. The location	0 1	0 1	0 01
Deterioration t joints, etc.	n may includ Typically ob			0 1	0 1	0 01
Deterioration t joints, etc.	n may includ Typically ob		ear panel joints. The location	and "Type" of d	0 1	recorded.)
Deterioration t joints, etc. PROACH S Is there a	n may includ Typically ob LABS bridge appr	oserved at or n	ear panel joints. The location	* Type: [leterioration should be	recorded.)
Deterioration t joints, etc. PROACH S Is there a	n may includ Typically ob LABS bridge appr	oserved at or n	place? Yes No	* Type: [* Type: [deterioration should be	recorded.)
Deterioration t joints, etc. PROACH S Is there a Is there rd Is the approach the second the sec	n may includ Typically ol LABS bridge appr wy. approa	oach slab in p ch pavement i inking at the o	place? Yes No	* Type: [* Type: [* Type: [☐ Concrete ✓ Aspha ☐ Concrete ✓ Aspha	recorded.)
PROACH S Is there a listhere repair (Typically series)	n may includ Typically of LABS bridge appr wy. approa roach slab s	oach slab in p ch pavement i inking at the o	ear panel joints. The location of the location	* Type: [* Type: [* Type: [Concrete Aspha Concrete Aspha	recorded.)

4
SLAB DRAINS
* Is the drainage system working adequately?
* Recommendations:
* Notes:
Picture DSCN3466, DSCN3473
#
5
CURBS & RAILS
* Existing curb (left side): Safety Barrier Curb Curb/parapet Blockouts Thrie Beam Baluster Steel Channel
Other Handrail Fence
* Does curb need repai Yes No * Curb repairlin. ft.
* Remove hand rail Yes No * Add curb blockou Yes No
* Existing curb (right side): Safety Barrier Curb / Curb/parapet Blockouts Thrie Beam Baluster / Steel Channel
Other Handrail Fence
* Does curb need repai Yes No * Curb repair lin. ft.
* Remove hand rail Yes No * Add curb blockou Yes No
* Existing median curb: Type: Width " Height "
* Does curb need repai Yes No * Curb repairlin. ft.
* Approach rail attachment: None Not attached 4 Hole 5 Hole Turn-down Other
* If the existing handrails will be removed, does the local maintenance supervisor wish to keep them? Yes No
Storage address: location:
<u> </u>
address:
city: state: zip:
* Notes:
Picture DSCN3466, DSCN3473

Effective: May 2020 Supersedes: June 2013 3 of 9

Bent	Type	Recommendations	Gap Left	Gap Right	Temperature & Other Info
			"	"	
		. – – – – – –			
		- LCE L			
		PAIR TR	"	"	
		USE-IN-PLACE	"	"	
			"	"	
* Notes: N	J/A				
1100001	<u> </u>				
_					
2					
EARINGS					
Bent	Coating	Recommenda	ations		te which bearings at each bent)
N 1			_ #	May need to re bearing)	place bearing 1 (east ext.
	AT		SLIDING SLAB		
2	OVERCOAT		AKE END BENT SLIDING SL. MAKE END BENT INTEGRAI		
3	3L %L	S-IN-PLAC			
S 4	NZ ZE ZE	USE-IN-PLACE C	BENT CONTROL OF CONTRO		
	CLEA)		MAKE END		
			AKE AKE MAK		
			_		
* Notes: _					
_					
	Pictures of Each Bear				
	2477 DCCN2470 DC	SCN3481, DSCN3487, DSCN34 SCN3508, DSCN3509, DSCN35		DSCN3490, DSCN	N3496, DSCN3499, DSCN3501,
3476, DSCN					
3476, DSCN					
3476, DSCN 3502, DSCN	3503, DSCN3507, DS	, ,			
3476, DSCN 3502, DSCN OATING S	(3503, DSCN3507, DS YSTEM (PAINT)		ſ	green / grav	Other
3476, DSCN 3502, DSCN OATING S	(3503, DSCN3507, DS YSTEM (PAINT)		[green ✓ gray	other
3476, DSCN 3502, DSCN OATING S	YSTEM (PAINT) coating system:				other
3476, DSCN 3502, DSCN OATING S' * Existing * Date last	YSTEM (PAINT) coating system:	4 * Is existing o		Yes (Overcoat is	
3476, DSCN 3502, DSCN OATING S' * Existing * Date last	YSTEM (PAINT) coating system: t coated: 1964	4 * Is existing o	coating peeling?[Yes (Overcoat is Clear	s not an option) No
3476, DSCN 3502, DSCN OATING S' * Existing * Date last	YSTEM (PAINT) coating system: t coated: 1964	4 * Is existing o ✓ Blast clean o	coating peeling?[& recoat all steel & recoat only at journey	Yes (Overcoat is Clear Cint locatid Blast clean	s not an option) No a & overcoat all steel & recoat at joint locations and
3476, DSCN 3502, DSCN OATING S' * Existing * Date last	YSTEM (PAINT) coating system: coated: 1964 recommendation:	* Is existing o	coating peeling?[& recoat all steel & recoat only at journel test required for outli-off tests.	Yes (Overcoat is Clear bint locatid Blast clean vercoat (Calcium S	s not an option) No No & overcoat all steel & recoat at joint locations and & overcoat all other steel

(Example	e: Deck solid slabs, vo	re or Girder: (above pided slabs, box girde	-		
deck gird	lers & prestressed gird	ders)	-		
	Example: Beams, strin	ingers, girders, diaphr ly) (Attach pictures)	agms, cross-frame	es, misc. steel)	Describe & Locate
	Section	on Loss %	Cracks	<u>in.</u>	
	Section	on Loss %	Cracks	in.	
	Section	on Loss %	Cracks	in.	
	Section	on Loss %	Cracks	in.	
Notes:	í				
?					
,					
	CTURE REPAIR		Seal Concrete	Coat Exposed Pile	
	CTURE REPAIR Formed Repair	Unformed Repair	Seal Concrete Beam Cap Bts.	Coat Exposed Pile @ Int. Pile Cap Bts.	Describe (Beam, Backwall, Wing, e
UBSTRU(Unformed Repair 10 sq. ft.		-	Describe (Beam, Backwall, Wing, e
UBSTRU Bent	Formed Repair		Beam Cap Bts.	@ Int. Pile Cap Bts.	
UBSTRUC Bent N1	Formed Repair sq. ft.	10 sq. ft.	Beam Cap Bts. Ves No	@ Int. Pile Cap Bts.	
Bent N 1	sq. ft.	sq. ft.	Beam Cap Bts. Yes No Yes No	@ Int. Pile Cap Bts. Yes No Yes No	
Bent N1 2 3	sq. ftsq. ftsq. ft.	10 sq. ft. sq. ft. 10 sq. ft.	Beam Cap Bts. Ves No Yes No Yes No	@ Int. Pile Cap Bts. Yes No Yes No Yes No	Abutment
Bent N 1 2 3 S 4	sq. ftsq. ftsq. ftsq. ftsq. ftsq. ft.	10 sq. ft. sq. ft. 10 sq. ft. 10 sq. ft. sq. ft.	Beam Cap Bts. Ves No Yes No Yes No Yes No Yes No	@ Int. Pile Cap Bts.	Abutment

SIGNS, SIGNALS &/OR LIGHTI	ING ATTACHED TO STI	RUCTURE		
* Are there signs attached direc	ctly to this structure?]Yes √No qu	antitylocation_	
* Describe proposed work to be	e done to signs.			
* Are there signals attached dir * Describe proposed work to be	_]Yes ✓No qu	antitylocation_	
* Is there aviation lighting attack * Is there navigational lighting		Yes No	√N/A Red qn	Green qnty.
* Is there roadway lighting atta		Yes No	qn ✓N/A	
* Describe proposed work to be	e done to lighting.	-		
* Notes: N/A				
TOUGS: IVA	RUCTURE			
re	RUCTURE Qty. Size	Owner		Condition
UTILITIES ATTACHED TO STE	Qty. Size			
UTILITIES ATTACHED TO STE	Qty. Size		Repaint Rep	
UTILITIES ATTACHED TO STE Type Conduit Pipeline Other	Qty. Size		Repaint Rep	pair Replace Remove
Type Conduit Pipeline Other	Qty. Size		Repaint Repair Repairt	pair Replace Remove
Type Conduit Pipeline Othe Conduit Pipeline Othe Conduit Pipeline Othe	Qty. Size		Repaint Repair Repairt	pair Replace Remove
Type Conduit Pipeline Othe Conduit Pipeline Othe Conduit Pipeline Othe Conduit Pipeline Othe	Qty. Size		Repaint Repair Repairt	pair Replace Remov

* Is it on and working? Yes	is structure? Y	Yes √No Jnknown		_	alter Abandon in	
_						
* Notes:						
ę						
HANNEL ALIGNMENT, SLOPE I	PROTECTION &	SCOUR				
		_	9			
* Is channel aligned to bridge open		∐No Do				
* Is drift a continual problem?	Yes		scribe & Locat			
* Is erosion a problem?	✓Yes	No De	scribe & Locat	South abutn	nent undermined v	vith pile exposed
* Describe slope protection in place	ce					
* Scour At Footing A	t Piling D	Depth	Ber	nt	Recommendation	
_	_					
	L			_		
* December provided growth Photo		''l -lone an	lth smill (1 (adapat	LL-aussian)	
* Describe needed work. Place	ee rock at north sp	oill slope an	nd south spill s	slope (moderat	te bank erosion)	
* Describe needed work. Plac	e rock at north sp	oill slope an	d south spill s	slope (moderat	ee bank erosion)	
* Describe needed work. Plac	e rock at north sp	oill slope an	ad south spill s	slope (moderat	re bank erosion)	
* Describe needed work. Place Place Place Place					e bank erosion)	
					e bank erosion)	
					te bank erosion)	
e DSCN3485, DSCN3493, DSCN3					te bank erosion)	
e DSCN3485, DSCN3493, DSCN3		DSCN3512	, DSCN3513,			
e DSCN3485, DSCN3493, DSCN35 RAFFIC LANES * Number of lanes striped:	on structure	DSCN3512	, DSCN3513,	DSCN3495 under structure		
e DSCN3485, DSCN3493, DSCN3	505, DSCN3511, 1	DSCN3512	, DSCN3513,	DSCN3495		ht)
e DSCN3485, DSCN3493, DSCN35 RAFFIC LANES * Number of lanes striped:	on structure	DSCN3512	, DSCN3513,	DSCN3495 under structure	(left) (rig	
e DSCN3485, DSCN3493, DSCN3 RAFFIC LANES * Number of lanes striped: * Shoulder width: None	on structure	DSCN3512	, DSCN3513,	DSCN3495 under structure		
e DSCN3485, DSCN3493, DSCN3 RAFFIC LANES * Number of lanes striped: * Shoulder width: None	on structure	DSCN3512	(right)	DSCN3495 under structure	(left) (rig	
e DSCN3485, DSCN3493, DSCN3 RAFFIC LANES * Number of lanes striped: * Shoulder width: None * Sidewalk widths:	on structure on structure on structure	DSCN3512 1 (left)	(right)	DSCN3495 under structure under structure	(left) (rig	

GENERAL AREA CONDITIONS
* Primary area: Commercial Industrial Residential Agricultural Military Other
* Posted speed limit on structure:55 mph
* Posted load on structure:tons @mph \subseteq NA
Single Unit: tons @ mph ✓NA Semi (tractor/trailer): tons @ mph ✓NA
* Do pedestrians and/or bicyclists regularly use this structure? Yes No Undetermined
* Notes:
Picture DSCN3466 #
MAINTENANCE * What work has been done to this structure that may not be reflected on existing bridge plans? Picture #
18
ADDITIONAL FIELD NOTES
Picture #

* Traffic Control: Close structure Stage construction on structure Cross over traffic to adjacent structure Detour Other option		CTOUR	_						
* Define probable detour route. PERSONS ASSISTING WITH CHECKLIST Name Joyce Reynolds Title Project Manager Ph. (816) 387 - 2411 Name Bryce Acton Title District Bridge Engineer Ph. (816) 390 - 3641 Name Title Ph. () - Name Title Ph. () -	* Traffic Co	ntrol: ✓ Close structure	Stage construc	tion on structure Cross over tr	affic to ad	jacent s	structure	Det	our
PERSONS ASSISTING WITH CHECKLIST Name Joyce Reynolds Title Project Manager Ph. (816) 387 - 2411 Name Bryce Acton Title District Bridge Engineer Ph. (816) 390 - 3641 Name Title Ph. () - Name Title Ph. () -		Other option							
Name Joyce Reynolds Title Project Manager Ph. (816) 387 - 2411 Name Bryce Acton Title District Bridge Engineer Ph. (816) 390 - 3641 Name Title Ph. () - Ph. () - Name Title Ph. () - Ph. () -	* Define pro	bable detour route							
Name Joyce Reynolds Title Project Manager Ph. (816) 387 - 2411 Name Bryce Acton Title District Bridge Engineer Ph. (816) 390 - 3641 Name Title Ph. () - Ph. () - Name Title Ph. () - Ph. () -									
Name Joyce Reynolds Title Project Manager Ph. (816) 387 - 2411 Name Bryce Acton Title District Bridge Engineer Ph. (816) 390 - 3641 Name Title Ph. () - Ph. () - Name Title Ph. () - Ph. () -									
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Name Joyce Reynolds Title Project Manager Ph. (816) 387 - 2411 Name Bryce Acton Title District Bridge Engineer Ph. (816) 390 - 3641 Name Title Ph. () - Ph. () - Name Title Ph. () - Ph. () -	EDGONG AGG								
Name Bryce Acton Title District Bridge Engineer Ph. (816) 390 - 3641 Name Title Ph. () - Name Ph. () - Ph. () -									
Name Title Ph. () - Name Title Ph. () -	Name	Joyce Reynolds	Title	Project Manager	Ph.	(81	6) 38	7 -	2411
Name Title Ph. () -									2644
	' <u></u>	Bryce Acton	Title	District Bridge Engineer	Ph.	(81	6) 390	0 -	3641
Name Ph. () -	Name								
	Name		Title		Ph.	()	-	
	Name		Title		Ph.	()	-	
	Name		Title		Ph.	()	-	
REQUIRED SIGNATURES	Name Name		Title		Ph.	()	-	
REQUIRED SIGNATURES I have reviewed the information on this checklist and believe it to be as accurate as possible.	Name Name Name REQUIRED SI	GNATURES	Title Title Title		Ph.	()	-	
	Name Name Name REQUIRED SI	GNATURES	Title Title Title		Ph.	()	-	
	Name Name Name REQUIRED SI	GNATURES	Title Title Title		Ph. Ph. Ph.	()	-	
I have reviewed the information on this checklist and believe it to be as accurate as possible.	Name Name Name Name Name Name Name	GNATURES e reviewed the information on	Title Title Title		Ph. Ph. Ph.	()	-	

The structural rehabilitation checklist indicates how the bridge is functioning and aging.

All deterioration should be noted, even if it is known that the work will not be completed under the proposed project.

Send NEW Structural Rehabilitation Checklist by email

To: "Bridge Survey Processor"

Cc: Structural Project Manager or Structural Resource Manager