

February 23, 2023 9:24:46AM

COUNTY: WORTH DISTRICT: NW CLASS: STATBR FED-ID: 299 BRIDGE: A0448

\*\*\*GENERAL STRUCTURE INFORMATION\*\*\* \*\*\*BRIDGE INSPECTION INFORMATION\*\*\* ROUTE: US169S # **SPANS**: 5 PLACE CODE: 47828 MIDDLEFORK **DATE:** 09/16/2021 **RESPONSIBILITY: DISTRICT** LANES ON: 2 FEATURE: MID FK GRAND RVR LENGTH: 364 FT 0 IN FREQUENCY: 24 **CALCULATED INTERVAL\*\*: 24** LANES UNDER: 0 STATUS: A-OPEN MAXIMUM SPAN: 100 FT 0 IN **TEAM LEADER: SCOTT STEPHENS ELEMENT: NO LOG MILE: 8.102 COMPASS DIRECTION: NORTH to SOUTH** APPROACH ROADWAY: 36 FT 0 IN **INSPECTOR 2: INSPECTOR 4: DETOUR:** 16.00 MILES **DIRECTION OF TRAFFIC: 2-WAY TRAF** CURB TO CURB: 28 FT 0 IN **INSPECTOR 3: OUT TO OUT: 31 FT 6 IN** NHS: NO **FUNCTIONAL CLASS: RL-MINOR ARTERIAL** \*\* When calculated interval exceeds the frequency, a justification comment per BIRM is required. **BUILT: 1960 NBI OWNER: MODOT AADT:** 871 **GENERAL INSPECTION COMMENTS REHAB:** 1975 **NBI MAINTAINED: MODOT AADT YEAR: 2022** (HAZLET1, 09/16/2019)--HANDED OVER TO DISTRICT AND WAS PUT ON CYCLE MAINTENANCE DISTRICT: NW LOCATION: S 9 T 65 R 31 W **AADT TRUCK: 17.4%** WITH OTHER BRIDGES IN WORTH COUNTY **MAINTENANCE COUNTY: WORTH FUTURE AADT: 1176 LATITUDE:** 40 27 15.54 (DMS) **LONGITUDE:** 94 24 13.60 (DMS) SUB AREA: 7A12 **FUTURE AADT YEAR: 2042** \*\*\*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:** 03/11/2014 **CATEGORY: QUALITY ASSURANCE CATEGORY: DRY RESPONSIBILITY: BRIDGEDIV DATE:** 09/16/2021 **RESPONSIBILITY: DISTRICT** FREOUENCY: 999 **NBI:** NO NBI: NO **CALCULATED INTERVAL\*\*:** FREOUENCY: 60 CALCULATED INTERVAL\*\*: 24 **TEAM LEADER: SCOTT STEPHENS** TEAM LEADER: **INSPECTOR 3: METHOD: INSPECTOR 3: METHOD:** VISUAL **INSPECTOR 2:** TERRY WILSON **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** (MARTEP, 07/03/2014)--DATA REVIEW ONLY OTHER SPECIAL INSPECTIONS OTHER UNDERWATER INSPECTIONS **DATE FREQUENCY CATEGORY** CALCULATED INTERVAL RESPONSIBILITY **METHOD** DATE **FREQUENCY CATEGORY** NBI CALCULATED INTERVAL RESPONSIBILITY **METHOD** NO WT TAPE 07/16/2013 CHANNEL CROSS DISTRICT 120 **SECTIONS** 

February 23, 2023 9:24:46AM

**COUNTY: WORTH DISTRICT: NW CLASS: STATBR FED-ID: 299 BRIDGE: A0448** \*\*\*STRUCTURE POSTING\*\*\* **APPROVED CATEGORY: S-1** NO POSTING REQUIRED **Ton 1: Ton 2: Ton 3: COMMENTS:** FIELD CATEGORY: S-1 NO POSTING REQUIRED **PROBLEM:** PROBLEM DIRECTION: **Ton 1: Ton 2: Ton 3: COMMENTS:** \*\*\*GENERAL COMMENTS/MAJOR RATED ITEMS\*\*\* GENERAL COMMENTS: (BOWDEJ1, 10/19/2009)--UIP (51') SMP WF - (80'-100'-80') CONT PL GDR - (51') SMP WF GDR SPANS [ITEM 58] DECK: 4-POOR CONDITION COMMENTS: (MADSEJ, 07/14/2017)--APPROXIMATELY 30% SATURATION THROUGHOUT THE MAIN SPANS. **RATING:** 09/16/2021 [ITEM 59] SUPER: 5-FAIR CONDITION COMMENTS: (MADSEJ, 07/14/2017)--MINOR TO ADVANCED SECTION LOSS ON THE BOTTOM OF THE WEB, BOTTOM FLANGES, AND BOTTOM OF THE BEARING STIFFENERS AT THE BENT 2 AND 5 BEARING AREAS. **RATING:** 07/14/2017 [ITEM 60] SUB: 6-SATISFACTORY CONDITION COMMENTS: (MADSEJ, 07/14/2017)--MODERATE SEALED SPALLS THROUGHOUT THE BENT 2 AND 5 STEPCAPS. **RATING:** 07/14/2017 [ITEM 61] BANK/CHANNEL: 6-WIDESPREAD MINOR DAMAGE COMMENTS: (MADSEJ, 07/14/2017).-STEEP ERODING AND SLOUGHING BANKS THROUGHOUT THE CHANNEL. THE UPSTREAM CHANNEL ALIGNMENT COULD BE BETTER. **RATING:** 01/29/2014 [ITEM 113] SCOUR: 8-STABLE FOR CALCULATED COMMENTS: (MADSEJ, 07/14/2017)--MINOR BANK EROSION/SCOUR AROUND THE PIER 3 COLUMNS. **RATING:** 05/18/2001 **EVALUATION TYPE:** [ITEM 71] WATERWAY ADEQUACY: DECK ABOVE FLOOD ELEV **COMMENTS: RATING:** 05/18/2001 [ITEM 72] APPRRDWY ALIGNMENT: 8-VERYGOOD **COMMENTS: RATING:** 05/18/2001 \*\*\*RAILING AND APPROACH PAVEMENT COMPONENTS AND RATINGS\*\*\* [ITEM 36A] BRIDGE RAILING RATING: DOESNT MEET CURRNT STND-0 **RATING:** 10/19/2009 **COMMENTS: DIRECTION MATERIAL CONSTRUCTION COMMENTS** REINFORCED CONCRETE **CURB BOTH BOTH** STEEL CHANNEL-12" **CONDITION** LOCATION 1 **SEVERITY LOCATION 2 COMMENT** THROUGHOUT NOT APPLICABLE (STEPHS2, 09/16/2021)--PAINTER 2020 **OTHER** [ITEM 36B] TRANSITION RAILING RATING: DOESN'T MEET CURRN'T STND-0 **RATING:** 07/14/2017 **COMMENTS: CONSTRUCTION DIRECTION MATERIAL COMMENTS GALVANIZED STEEL** W-BEAM ALL

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

**COMMENTS:** 

**RATING:** 05/18/2001

DistrictAbbr = NW and Design No = a0448 and County = ANDREW, ATCHISON, BUCHANAN, CALDWELL, CARROLL, CHARITON, CLINTON, DAVIESS, DEKALB, GENTRY, GRUNDY, HARRISON, HOLT, LINN, LIVINGSTON, MERCER, NODAWAY, PUTNAM, SULLIVAN, WORTH

February 23, 2023 9:24:46AM

# **Missouri Department of Transportation State Bridge Inspection Report**

**CLASS: STATBR COUNTY: WORTH DISTRICT: NW FED-ID: 299 BRIDGE: A0448** 

**COMMENTS MATERIAL CONSTRUCTION DIRECTION** 

ALL

**RATING:** 07/14/2017 [ITEM 36D] RAIL END TREATMENT RATING: MEETS CURRENT STANDARDS-1 **COMMENTS:** 

**MATERIAL CONSTRUCTION DIRECTION COMMENTS** GALVANIZED STEEL **ENERGY ABSORBING** ALL

W-BEAM

MODOT

GALVANIZED STEEL

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

MATERIAL	CONSTRUCTION  CONSTRUCTION		•	<u>MMENTS</u>				
ASPHALT	BITUMINOUS MA	Т ВОТН	GOOD					
	***DRAINAGE, EXPANSION DEVICES, BANK/SLOPE, AND DECK PROTECTIVE COMPONENTS***							
DECK PROTECTIVE COMPO SERIES TYPE-# APPROACH SERIES-1 COMMENT:	<u>NENTS:</u> <u>COMPONENT</u> WEARING SURFACE	<u>MATERIAL</u> ASPHALT	<u>CONSTRUCTION</u> BITUMINOUS MAT	<u>THICKNESS</u> 2 IN	YEAR APPLIED 2012	<u>MANUFACTURE</u>	<u>OVERALL CONDITION</u> FAIR	
<u>COMMENT:</u>	DECK PROTECTION	NOTAPPLICABLE	NONE	2 IN				
<u>COMMENT:</u>	MEMBRANE	NOTAPPLICABLE	NONE			NOTAPPLIC		
MAIN SERIES-2  COMMENT:	WEARING SURFACE	ASPHALT	BITUMINOUS MAT	2 IN	2012		FAIR	
<u>COMMENT:</u>	DECK PROTECTION	NOTAPPLICABLE	NONE					
<u>COMMENT:</u>	MEMBRANE	NOTAPPLICABLE	NONE			NOTAPPLIC		
APPROACH SERIES-3 <u>COMMENT:</u>	WEARING SURFACE	ASPHALT	BITUMINOUS MAT	2 IN	2012		FAIR	
<u>COMMENT:</u>	DECK PROTECTION	NOTAPPLICABLE	NONE			NOTAPPLIC		
<u>COMMENT:</u>	MEMBRANE	NOTAPPLICABLE	NONE			NOTAPPLIC		
DRAINAGE COMPONENTS:	<u>COMPONENT</u> DRAINAGE	<u>MATERIAL</u> REINFORCED CONCRETE	<u>CONSTRUCTION</u> CURB OUTLET	<u>DIRECTION</u>	<u>COMMENTS</u>			

February 23, 2023 9:24:46AM

**MANUFACTURE** 

<u>GAP</u>

YEAR APPLIED

2,012

**OVERALL CONDITION** 

GOOD

# **Missouri Department of Transportation State Bridge Inspection Report**

STRIP SEAL

**CLASS: STATBR COUNTY: WORTH DISTRICT: NW FED-ID: 299 BRIDGE: A0448** 

**EXPANSION DEVICE COMPONENTS: CONSTRUCTION** 

**MATERIAL** 

**ELASTOMERIC** 

**COMMENT:** 

MODOT

SUB UNIT-#

BENT-2

BENT-5 CLOSED EXPANSION JOINT **ELASTOMERIC** STRIP SEAL 2,012 GOOD

**COMMENT:** 

**BANK/SLOPE PROTECTION COMPONENTS:** 

SUB LABEL

**COMPONENT** 

CLOSED EXPANSION JOINT

**COMPONENT MATERIAL CONSTRUCTION DIRECTION COMMENTS** 

BANK PROTECTION ROCK**BLANKET** 

BANK PROTECTION ROCKGROUTED

			***DECI	K COMPONE	NTS***	
SPAN TYPE-# APPROACH SPANS-1	<u>COMPONENT</u> DECK	<u>MATERIAL</u> REINFORCED CONCRETE	CONSTRUCTION  CAST-IN-PLAC	<u> </u>	MMENTS	
<u>CONDITION</u> DETERIORATI		<u>LOCATION 1</u> EDGE	<u>LOCATION 2</u>	<u>SEVERITY</u> SEVERE	<u>MEASUREMENT</u>	<u>COMMENT</u>
EFFLORESCEN SATURATIOI		THROUGHOUT THROUGHOUT		LIGHT MINOR	40 %	
TRANSVERSE CR		THROUGHOUT		FEW	40 / 0	
MAIN SPANS-2	DECK	REINFORCED CONCRETE			ME ACUDEMENT	COMMENT
<u>CONDITION</u> DETERIORATI	ON	<u>LOCATION 1</u> EDGE	<u>LOCATION 2</u>	<u>SEVERITY</u> SEVERE	<u>MEASUREMENT</u>	<u>COMMENT</u>
EFFLORESCEN SATURATIOI		THROUGHOUT THROUGHOUT		LIGHT MODERATE	40 %	
TRANSVERSE CR		THROUGHOUT		FEW	.0 /0	
MAIN SPANS-3	DECK	REINFORCED CONCRETE				
<u>CONDITION</u> DETERIORATI		<u>LOCATION 1</u> EDGE	<u>LOCATION 2</u>	<u>SEVERITY</u> SEVERE	<u>MEASUREMENT</u>	<u>COMMENT</u>
EFFLORESCEN	CE	THROUGHOUT		LIGHT	50.07	
SATURATIOI TRANSVERSE CR		THROUGHOUT THROUGHOUT		MODERATE FEW	50 %	
MAIN SPANS-4	DECK	REINFORCED CONCRETE				
<u>CONDITION</u> DETERIORATI		<u>LOCATION 1</u> EDGE	<u>LOCATION 2</u>	<u>SEVERITY</u> SEVERE	<u>MEASUREMENT</u>	<u>COMMENT</u>
EFFLORESCEN	CE	THROUGHOUT		LIGHT	20.97	
SATURATIOI TRANSVERSE CR		THROUGHOUT THROUGHOUT		MINOR FEW	30 %	
APPROACH SPANS-5	DECK	REINFORCED CONCRETE				
<u>CONDITION</u> DETERIORATI		<u>LOCATION 1</u> EDGE	<u>LOCATION 2</u>	<u>SEVERITY</u> SEVERE	<u>MEASUREMENT</u>	<u>COMMENT</u>

DistrictAbbr = NW and Design No = a0448 and County = ANDREW, ATCHISON, BUCHANAN, CALDWELL, CARROLL, CHARITON, CLINTON, DAVIESS, DEKALB, GENTRY, GRUNDY, HARRISON, HOLT, LINN, LIVINGSTON, MERCER, NODAWAY, PUTNAM, SULLIVAN, WORTH

COUNTY: WORTH DISTRICT: NW CLASS: STATBR FED-ID: 299 BRIDGE: A0448

EFFLORESCENCE SATURATION TRANSVERSE CRACKS

MODOT

THROUGHOUT THROUGHOUT THROUGHOUT LIGHT MINOR FEW

60 %

TRAINS VERSE CRITCHS	Timoconoci		12,0		
		↓↓↓¢ι inenctri	UCTUDE CON	ADONIENTE C+++	
SERIES TYPE-# SI	PAN TYPE MATE	***SUPERSTRU CRIAL CONSTRUCTI		LABEL	COMMENTS
	MPLE SPAN STI			<u>LADEL</u>	COMMENTS
	POSITE INDICATOR LENGTH	WEATHERING STEEL COMMENTS			
	ON-COMPOSITE 51 FT 8 IN	NO STEEL COMMENTS			
CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
SECTION LOSS	AT BEARING	EOCAHON 2	MINOR	MEASUREMENT	COMMENT
SECTION EOSS	TH BETHING		WIIIVOIC		
MAD GENEG 2	ADLE CDAN	DI AME CIRDI	an a		
	MPLE SPAN STI				
	POSITE INDICATOR LENGTH	<u>WEATHERING STEEL</u> <u>COMMENTS</u>			
MAIN SPANS-2 N <i>CONDITION</i>	ON-COMPOSITE 80 FT 4 IN <b>LOCATION 1</b>	NO <i>Location 2</i>	<u>SEVERITY</u>	MEASUREMENT	COMMENT
PACK RUST	EXTERIOR GIRDERS	TOP FLANGE	MEDIUM	MEASUREMENT	COMMENT
SECTION LOSS	AT BEARING	TOTTEANGE	MINOR		
SECTION ECSS	TH BEHANIE		Willitoit		
MAINI CDANIC 2 N	ON-COMPOSITE 100 FT 0 IN	NO			
MAIN SPANS-3 N <i>CONDITION</i>	ON-COMPOSITE 100 FT 0 IN <b>LOCATION 1</b>	LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT
PACK RUST	EXTERIOR GIRDERS	TOP FLANGE	MEDIUM	MEASUREMENT	COMMENT
TACK ROST	EXTERIOR GIRDERS	TOTTEANGE	WILDIOWI		
MAN OR AND A	CONTROL OF THE AREA	Mo			
	ON-COMPOSITE 80 FT 4 IN	NO	CELEBITY	ME ACUDEMENT	COMMENT
<u>CONDITION</u>	<u>LOCATION 1</u>	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
PACK RUST SECTION LOSS	EXTERIOR GIRDERS AT BEARING	TOP FLANGE	MEDIUM MINOR		
SECTION LOSS	AI BEAKING		MINOK		
(DDD 0 / 077 07D 770 0					
	MPLE SPAN STI				
	POSITE INDICATOR LENGTH	<u>WEATHERING STEEL</u> <u>COMMENTS</u>			
	ON-COMPOSITE 51 FT 8 IN	NO	CEVEDITY	ME ACUDEMENT	COMMENT
<u>CONDITION</u> SECTION LOSS	<u>LOCATION 1</u> AT BEARING	<u>LOCATION 2</u>	<u>Severity</u> Minor	<u>MEASUREMENT</u>	<u>COMMENT</u>
SECTION LOSS SECTION LOSS	GDR1		ADVANCED		(HAZLET1, 09/16/2019)ADVANCED SECTION LOSS AT THE TOP AND BOTTOM OF THE WEB
SECTION EOSS	GDRI		ADVANCED		AND AT THE BOTTOM OF THE EAST BEARING STIFFENER AT BENT 2 WITH A SMALL HOLE
					RUSTED THROUGH THE STIFFENER.
		***SUBSTRU	CTUDE COM	DONENTS***	
SUBSTRUCTURE SKEW	LENGTH MATER		LABEL	COMMENTS	
ABUTMENT-1 RA-48 DEGI			Exibel	COMMENTS	
CONDI			Å	SEVERITY MEAS	SUREMENT COMMENT
ASSOCIATED COMPONE	NT MATERIAL	CONSTRUCTION	-		
BEAM CAP	REINFORCED CONCE				
<u>CONDI</u>	<u>TION</u> <u>LOCATION</u>	<u>LOCATION 2</u>	<u>s</u>	EVERITY MEAS	<u>SUREMENT</u> <u>COMMENT</u>
SEAL	ED THROUGHO		ASP	HALTICBASE	
PILING	STEEL	H-SHAPE			
<u>CONDI</u>		<del></del>	_	EVERITY MEAS	<u>SUREMENT</u> <u>COMMENT</u>
STRAIGHT WINGS	REINFORCED CONCE				
<u>CONDI'</u>	<u>TION</u> <u>LOCATION</u>	<u>LOCATION 2</u>	<u>s</u>	<u>EVERITY</u> <u>MEAS</u>	<u>SUREMENT</u> <u>COMMENT</u>

COUNTY: WORTH DISTRICT: NW CLASS: STATBR FED-ID: 299 BRIDGE: A0448

MODOT

-	COUN	TY: WORTH	DISTRICT: NW	CLASS: STATBR	FED-ID	): 299	BRIDGE: A0448
	BACKWALL		REINFORCED CONCRETE	CAST-IN-PLACE			
		<b>CONDITION</b>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<b>SEVERITY</b>	<b>MEASUREMENT</b>	<u>COMMENT</u>
		SEALED	THROUGHOUT		ASPHALTICBASE		
		SHOVING	THROUGHOUT		MINOR		
	EXPANSION		STEEL	SLIDING CURVED/FLAT PLA			
		<b>CONDITION</b>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	MEASUREMENT	COMMENT
	BENT-2	RA-48 DEGREES 4	12 FT 10 IN REINFORCED CONCRETE	MULTIPLE COLUMN			
	DENI-2	CONDITION	LOCATION L	LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT
	ACCOCIATED			<u> </u>	<u>SEVEKIII</u>	MEASUKEMENI	COMMENT
	· · · · · · · · · · · · · · · · · · ·	O COMPONENT	MATERIAL  DEINEODOED CONCRETE	<u>CONSTRUCTION</u> CAST-IN-PLACE			
	BEAM CAP	<u>CONDITION</u>	REINFORCED CONCRETE <u>LOCATION 1</u>	LOCATION 2	CEI/EDITV	MEASUREMENT	COMMENT
				<u>LOCATION 2</u>	<u>SEVERITY</u>	MEASUREMENT	COMMENT
		PATCHES	STEPCAP		LARGE		
		SEALED SPALLS	THROUGHOUT STEPCAP		ASPHALTICBASE FEW		
	COLUMN	SFALLS	REINFORCED CONCRETE	CAST-IN-PLACE	TE W		
	COLUMIN	CONDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT
	FOOTING	CONDITION	REINFORCED CONCRETE	H-PILE	SL / LKITI	MEASCREMENT	COMMENT
	rooming	<u>CONDITION</u>	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT
	EXPANSION		STEEL	ROCKER	<u>SEVERIII</u>	MEASUREMENT	COMMENT
	EXPANSION	CONDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT
				<u>LOCATION 2</u>		MEASUREMENT	COMMENT
	EIVED DE AD	SECTION LOSS	AT BEAM CAP	CLIDVED DI ATE/DOTATINO	INITIAL		
	FIXED BEAR	CONDITION	STEEL <i>Location 1</i>	CURVED PLATE(ROTATING)  LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT
			' <u></u>	<u>LOCATION 2</u>		MEASUKEMENI	
		PACK RUST	THROUGHOUT		MODERATE		(MADSEJ, 07/14/2017)LIFTING 1/4"
	PIER-3		42 FT 8 IN REINFORCED CONCRETE	MULTIPLE COLUMN			
		CONDITION	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
		O 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>
	COLUMN		REINFORCED CONCRETE	CAST-IN-PLACE			
		<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
		HIGH STEEL SPALLS	THROUGHOUT		FEW		
	FOOTING		REINFORCED CONCRETE	H-PILE	~		
		<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	WEB BEAM		REINFORCED CONCRETE	CAST-IN-PLACE			
		<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	FIXED BEAR		STEEL	PEDESTAL(ROTATING)			
		<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	PIER-4	RA-48 DEGREES	42 FT 8 IN REINFORCED CONCRETE	MULTIPLE COLUMN			
		<b>CONDITION</b>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<b>MEASUREMENT</b>	<u>COMMENT</u>
	<u>ASSOCIATED</u>	O COMPONENT	<u>MATERIAL</u>	<u>CONSTRUCTION</u>			
	BEAM CAP		REINFORCED CONCRETE	CAST-IN-PLACE			
		<b>CONDITION</b>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<b>MEASUREMENT</b>	<u>COMMENT</u>
	COLUMN		REINFORCED CONCRETE	CAST-IN-PLACE			
		<b>CONDITION</b>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<b>MEASUREMENT</b>	<u>COMMENT</u>
	FOOTING		REINFORCED CONCRETE	H-PILE			
		<b>CONDITION</b>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	WEB BEAM		REINFORCED CONCRETE	CAST-IN-PLACE			

COUNTY: WORTH	DISTRICT: NW	CLASS: STATBR	FED-ID	<b>)</b> : 299	BRIDGE: A0448
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
EXPANSION BEARING	STEEL	ROCKER			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
BENT-5 RA-48 DEGREES	42 FT 10 IN REINFORCED CONCRETE	MULTIPLE COLUMN			
CONDITION	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<b>SEVERITY</b>	<b>MEASUREMENT</b>	<u>COMMENT</u>
ASSOCIATED COMPONENT	<u>MATERIAL</u>	CONSTRUCTION			
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<b>MEASUREMENT</b>	<u>COMMENT</u>
SEALED	THROUGHOUT		ASPHALTICBASE		
SPALLS	STEPCAP		LARGE		
COLUMN	REINFORCED CONCRETE	CAST-IN-PLACE			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
FOOTING	REINFORCED CONCRETE	H-PILE	~~~~~~		
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
EXPANSION BEARING	STEEL	ROCKER	CEL ED ITH	165 (6455165)	CONCLUENT
<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)	4	ME ACUDEMENT	COMMENT
<u>CONDITION</u>	LOCATION 1	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT
PACK RUST	THROUGHOUT		MEDIUM		(MADSEJ, 07/14/2017)LIFTING 1/4"
	56 FT 2 IN REINFORCED CONCRETE	NON-INTEGRAL	CELEBIAN	ME (CUDE) (E)	COMMENT
<u>CONDITION</u>	<u>LOCATION 1</u>	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
ASSOCIATED COMPONENT	MATERIAL	<u>CONSTRUCTION</u>			
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE	CEVEDITY	MEACUDEMENT	COMMENT
<u>CONDITION</u>	LOCATION 1	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
EROSION HORIZONTAL CRACKS	GROUND LINE S TOP	THROUGHOUT	6 INCH + LARGE		
SEALED	THROUGHOUT	THROUGHOUT	ASPHALTICBASE		
VERTICAL CRACKS	THROUGHOUT		FEW		
PILING	STEEL	H-SHAPE	1 L W		
CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
STRAIGHT WINGS	REINFORCED CONCRETE	CAST-IN-PLACE			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<b>SEVERITY</b>	<b>MEASUREMENT</b>	<u>COMMENT</u>
BACKWALL	REINFORCED CONCRETE	CAST-IN-PLACE			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<b>SEVERITY</b>	<b>MEASUREMENT</b>	<u>COMMENT</u>
SEALED	THROUGHOUT		ASPHALTICBASE		
SHOVING	THROUGHOUT		MINOR		
VERTICAL CRACKS	THROUGHOUT		FEW		
EXPANSION BEARING	STEEL	SLIDING CURVED/FLAT PLA			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
PACK RUST	THROUGHOUT		LIGHT		

### \*\*\*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\*\*

<u>VALUE</u> <u>DIRECTION</u>

**DATE** 

**COMMENT** 

# **Missouri Department of Transportation**

**State Bridge Inspection Report** 

**CLASS: STATBR FED-ID: 299 BRIDGE: A0448**  February 23, 2023

9:24:46AM

CLEARANCES UNDER BRIDGE

**COUNTY: WORTH** 

MoDOT

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

RECORD # **ROUTE** # LANES

**DISTRICT: NW** 

**DIRECTION OF TRAFFIC** RIGHT LATERAL CLEARANCE LEFT LATERAL CLEARANCE **UR-ID** 

**VERTICAL CLEARANCE TYPE\*\* VALUE DIRECTION DATE COMMENT** 

> \*\*\*STRUCTURE PAINT INFORMATION\*\*\* STEEL TONS: 41

**CONDITION: FAIR RUST AMOUNT:** 6=1.0% OF SURFACE RUSTED

> **ORIGINAL PAINT CONTRACT REPAINT DEPARTMENT REPAINT**

**PAINT TYPE:** A SYSTEM **PAINT TYPE: PAINT TYPE:** D SYSTEM **MANUFACTURE: NAME: RED LEAD** NAME: **NAME:** ALUMIN SULPHONATE/LEAD **SURFACE PREP:** 

PAINT COLOR: **PAINT COLOR: PAINT COLOR:** GRAY **PAINT YEAR: PAINT YEAR:** PAINT YEAR: 2000 MILS: MILS: MILS: 9

\*\*\*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** 



February 23, 2023 9:24:46AM

COUNTY: WORTH DISTRICT: NW CLASS: STATBR FED-ID: 299 BRIDGE: A0448

COUNTI. WOR	III DISTRICT. NW	CLASS. STATER	1 ED-1D. 233	DKIDGE, AU440		
***COMPU	UTER GENERATED RATINGS AND	DEFICIENCY ITEMS***		***ADVANCED S	SIGN INFORMATION*	**
NOTE: The items listed in this section are up	pdated whenever computer edits are ran on a stru-	cture 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	7/28/2017				
[Item 68] Deck Geometry Rating:	5-BETTER THAN MINIMUM	3/21/2002				
[Item 69] Underclearance:	N-NOT APPLICABLE	5/18/2001				
Sufficiency Rating:	59.4%	3/8/2022				
Deficiency:	STRUCTURAL	9/20/2021				
Funding Eligibility:	PARTIAL			***OUTFALL INSPI	ECTION INFORMATIO	N***
Estimated New Structure Length:	394 FT.					
Estimated Structure Cost:	\$1,553,668		# OUTFALLS:	INS	PECTOR:	
Estimated Total Project Cost:	\$2,330,502		STATUS:		DATE:	
Year of Cost Estimate:	2023		NOTES:			
generalized to use NBI items to come up with	stimates are computer generated using algorithim a new structure length and width to calculate a no may vary significantly from these numbers once	ew area which is taken times a representative cost per				



February 23, 2023 9:24:46AM

COUNTY: WORTH DISTRICT: NW CLASS: STATBR FED-ID: 299 BRIDGE: A0448

February 23, 2023 9:20:48AM

**BRIDGE: A1048** 

# Missouri Department of Transportation State Bridge Inspection Report

COUNTY: WORTH DISTRICT: NW CLASS: STATBR FED-ID: 846

MODOT

	***GENERAL STRUCTURE INFORMATION	***BRIDGE INSPECTION INFORMATION***					
ROUTE: RTME	# <b>SPANS</b> : 3	PLACE (	CODE: 19162 DENVER VILLAGE	DATE: 09/16/2021 RESPONSIBILITY: DISTRICT			
FEATURE: E FK GRAND RVR	LANES ON: 2	LEN	<b>IGTH:</b> 233 FT 0 IN	FREQUENCY: 24 CALCULATED INTERVAL**: 24			
STATUS: A-OPEN	LANES UNDER: 0		<b>SPAN:</b> 99 FT 0 IN	TEAM LEADER: SCOTT STEPHENS ELEMENT: NO			
<b>LOG MILE:</b> 5.593	COMPASS DIRECTION: WEST to EAST	APPROACH ROAD	<b>DWAY:</b> 20 FT 0 IN	INSPECTOR 2: INSPECTOR 4:			
<b>DETOUR:</b> 25.00 MILES	<b>DIRECTION OF TRAFFIC:</b> 2-WAY TRAF	CURB TO (	CURB: 24 FT 0 IN	INSPECTOR 3:			
NHS: NO	FUNCTIONAL CLASS: RL-MAJOR COLLECTOR		<b>OUT:</b> 26 FT 7 IN	** When calculated interval exceeds the frequency, a justification comment per BIRM is required.			
<b>BUILT:</b> 1962	NBI OWNER: MODOT		AADT: 272	GENERAL INSPECTION COMMENTS			
REHAB:	NBI MAINTAINED: MODOT		YEAR: 2022	GENERAL INSPECTION COMMENTS			
LOCATION: S 31 T 65 R 30 W	MAINTENANCE DISTRICT: NW		RUCK: 11.3%				
<b>LATITUDE:</b> 40 23 51.73 (DMS)	MAINTENANCE COUNTY: WORTH	FUTURE A					
<b>LONGITUDE:</b> 94 19 37.45 (DMS)	SUB AREA: 7A01	FUTURE AADT Y	YEAR: 2042				
			<u>.</u>				
	TICAL INSPECTION INFORMATION***			*INDEPTH INSPECTION INFORMATION***			
	SIBILITY: CATEGORY:		DATE:	RESPONSIBILITY: CATEGORY:			
FREQUENCY: CALCULATED INT	ERVAL**: NBI:		FREQUENCY: CALC	CULATED INTERVAL**: NBI:			
TEAM LEADER: INSP	ECTOR 3: METHOD:		TEAM LEADER:	INSPECTOR 3: METHOD:			
INSPECTOR 2: INSP	ECTOR 4:		INSPECTOR 2:	INSPECTOR 4:			
** When calculated interval exceeds the frequency, a justi	fication comment per RIRM is required		** When calculated interval exceeds the fr	requency, a justification comment per BIRM is required.			
when calculated interval exceeds the frequency, a justi	meation comment per BIRWI is required.		when calculated interval exceeds the fi	equency, a justification comment per briefly is required.			
FRACTURE C	RITICAL INSPECTION COMMENTS			INDEPTH INSPECTION COMMENTS			
***SPECIAL	INSPECTION INFORMATION***		***UNDERWATER INSPECTION INFORMATION***				
FREQUENCY: 72 CALCULATED INTITEAM LEADER: SCOTT STEPHENS INSPIRITUAL INSPIRITU	ECTOR 3: METHOD: ECTOR 4:	NEL CROSS SEC	DATE: 09/16/2021 RESPONSIBILITY: DISTRICT CATEGORY: DRY FREQUENCY: 60 CALCULATED INTERVAL**: 48 NBI: NO TEAM LEADER: SCOTT STEPHENS INSPECTOR 3: METHOD: VISUAL INSPECTOR 2: INSPECTOR 4:				
** When calculated interval exceeds the frequency, a justif	fication comment per BIRM is required.		** When calculated interval exceeds the	frequency, a justification comment per BIRM is required.			
SPECIA	L INSPECTION COMMENTS			UNDERWATER INSPECTION COMMENTS			
			(HAZLET1, 09/16/2019)3'-4' UNDER WATER IN 2019				
OTHE	R SPECIAL INSPECTIONS			OTHER UNDERWATER INSPECTIONS			
DATE FREQUENCY CATEGORY	NBI CALCULATED INTERVAL RESPONSIBILITY	<u>METHOD</u>	DATE FREQUENCY CATE	CGORY NBI CALCULATED INTERVAL RESPONSIBILITY METHOD			
			<u> </u>				

February 23, 2023 9:20:48AM

**COUNTY: WORTH DISTRICT: NW CLASS: STATBR FED-ID: 846 BRIDGE: A1048** 

\*\*\*STRUCTURE POSTING\*\*\*

APPROVED CATEGORY: S-1 NO POSTING REQUIRED

> **Ton 1: Ton 2:**

**Ton 3:** 

**COMMENTS:** 

**COMMENTS:** 

FIELD CATEGORY: S-1

NO POSTING REQUIRED

**Ton 1:** 

**Ton 2:** 

**Ton 3:** 

PROBLEM DIRECTION:

\*\*\*GENERAL COMMENTS/MAJOR RATED ITEMS\*\*\*

**PROBLEM:** 

GENERAL COMMENTS: (BOWDEJ1, 03/05/2008)--(70'-90'-70') CONT COMP I-BMS SPANS

[ITEM 58] DECK: 4-POOR CONDITION

COMMENTS: (STEPHS2, 09/12/2013)--MANY DELAMS AND SATURATION

**RATING:** 12/26/2007

[ITEM 59] SUPER: 7-GOOD CONDITION

COMMENTS: (HAZLET1, 09/16/2019)--RUST GIRDER ENDS

**RATING:** 09/21/2017

[ITEM 60] SUB: 6-SATISFACTORY CONDITION

**RATING:** 05/18/2001

COMMENTS: (STEPHS2, 09/12/2013)--UNDERMINING AT BEAM CAPS AND TILTED ROCKERS

[ITEM 61] BANK/CHANNEL: 5-MAJOR DAMAGE

COMMENTS: (BOWDEJ1, 04/07/2004)--DEEPENING & WIDENING

**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

[ITEM 72] APPRRDWY ALIGNMENT: 6-SATISFACTORY

**RATING:** 05/18/2001

**COMMENTS:** 

\*\*\*RAILING AND APPROACH PAVEMENT COMPONENTS AND RATINGS\*\*\*

**RATING**: 10/19/2009 [ITEM 36A] BRIDGE RAILING RATING: DOESNT MEET CURRNT STND-0 **COMMENTS:** 

**MATERIAL** REINFORCED CONCRETE

STEEL

**CONSTRUCTION CURB** 

**DIRECTION** 

**COMMENTS** 

CHANNEL-12"

**BOTH** 

**BOTH** 

**[ITEM 36B] TRANSITION RAILING RATING:** NOT PROVIDED-0

**RATING:** 05/18/2001

**COMMENTS:** 

[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:** 

MAIN SPANS-2

**CONDITION** 

DELAMINATION

DECK

### Missouri Department of Transportation State Bridge Inspection Report

February 23, 2023 9:20:48AM

**COUNTY: WORTH DISTRICT: NW CLASS: STATBR FED-ID: 846 BRIDGE: A1048** 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 OVERALL CONDITION** YEAR APPLIED MANUFACTURE MAIN SERIES-1 WEARING SURFACE PLAIN CONCRETE **MONOLITHIC COMMENT:** DECK PROTECTION *NOTAPPLICABLE* NONE **COMMENT:** *NONE MEMBRANE NOTAPPLICABLE* **COMMENT: DRAINAGE COMPONENTS: COMPONENT MATERIAL CONSTRUCTION DIRECTION COMMENTS** DRAINAGE CURB OUTLET REINFORCED CONCRETE **EXPANSION DEVICE COMPONENTS: COMPONENT CONSTRUCTION OVERALL CONDITION** SUB UNIT-# SUB LABEL **MATERIAL** GAPYEAR APPLIED **MANUFACTURE** ABUTMENT-1 CLOSED EXPANSION JOINT STEEL FLAT PLATE POOR**COMMENT: CONDITION** LOCATION 1 LOCATION 2 **SEVERITY COMMENT** (BOWDEJ1, 10/20/2009)--RAISED 1" PACK RUST **THROUGHOUT MODERATE BANK/SLOPE PROTECTION COMPONENTS: COMPONENT** MATERIAL **CONSTRUCTION DIRECTION COMMENTS BANK PROTECTION ROCK** RIP RAP *NORTH* (BOWDEJ1, 04/07/2004)--RIPRAP 1994 \*\*\*DECK COMPONENTS\*\*\* SPAN TYPE-# **COMPONENT CONSTRUCTION COMMENTS MATERIAL** MAIN SPANS-1 DECK REINFORCED CONCRETE CAST-IN-PLACE **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY MEASUREMENT COMMENT DELAMINATION** THROUGHOUT MANY **EFFLORESCENCE THROUGHOUT FEW MINOR** 10 % **SATURATION** RANDOM **BOTTOM FEW** SPALLS **SPALLS** THROUGHOUT MANY TRANSVERSE CRACKS THROUGHOUT MANY

District Abbr = NW and Design No = a1048 and County = ANDREW, ATCHISON, BUCHANAN, CALDWELL, CARROLL, CHARITON, CLINTON, DAVIESS, DEKALB, GENTRY, GRUNDY, HARRISON, HOLT, LINN, LIVINGSTON, MERCER, NODAWAY, PUTNAM, SULLIVAN, WORTH

LOCATION 2

CAST-IN-PLACE

REINFORCED CONCRETE

LOCATION 1

THROUGHOUT

**SEVERITY** 

**MODERATE** 

**MEASUREMENT** 

**COMMENT** 

COUNTY: WORTH DISTRICT: NW CLASS: STATBR FED-ID: 846 BRIDGE: A1048

EFFLORESCENCETHROUGHOUTFEWSATURATIONRANDOMMINORSPALLSTHROUGHOUTMANYTRANSVERSE CRACKSTHROUGHOUTMANY

MATERIAL

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

THROUGHOUT

TOP FLANGE

MoDOT

SERIES TYPE-#

TRANSVERSE CRACKS

RUSTING

SPAN TYPE

**CONDITION** LOCATION 1 LOCATION 2 **SEVERITY MEASUREMENT COMMENT DELAMINATION** THROUGHOUT MANY 40 % **EFFLORESCENCE** THROUGHOUT **FEW** 40 % SATURATION RANDOM **MODERATE** SPALLS **THROUGHOUT** MANY

\*\*\*SUPERSTRUCTURE COMPONENTS\*\*\*

CONSTRUCTION

LABEL

**COMMENTS** 

MANY

MAIN SERIES-1 CONTINUOUS SPAN STEELWIDE FLANGE GIRDERS **COMPOSITE INDICATOR WEATHERING STEEL COMMENTS SPAN LENGTH** MAIN SPANS-1 COMPOSITE 71 FT 8 IN **LOCATION 1 CONDITION LOCATION 2 SEVERITY MEASUREMENT COMMENT** RUSTING **TOP FLANGE** MINOR MAIN SPANS-2 COMPOSITE 99 FT 0 IN NO **CONDITION** LOCATION 1 **LOCATION 2 SEVERITY MEASUREMENT COMMENT** 71 FT 10 IN MAIN SPANS-3 COMPOSITE NO **SEVERITY CONDITION LOCATION 1** LOCATION 2 **MEASUREMENT COMMENT** 

				***SUBSTRUCTU	RE COMP	ONENTS**	*	
<u>SUBSTRUCTURE</u>	<u>SKEW</u>	<u>LENGTH</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>LABEL</u>	<b>COMMENTS</b>	<u>S</u>	
ABUTMENT-1	LA-10 DEGREES	30 FT 7 IN	REINFORCED CONCRETE	NON- $INTEGRAL$				
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>S1</u>	<u>EVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	EROSION		GROUND LINE		PILE	E EXPOSED		
<u>ASSOCIATI</u>	ED COMPONENT	<u>MAT</u>	<u>'ERIAL</u>	<u>CONSTRUCTION</u>				
BEAM CAI		REIN	NFORCED CONCRETE	CAST-IN-PLACE				
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SE</u>	EVERITY	<u>MEASUREMENT</u>	<u>COMMENT</u>
	DELAMINATION		RANDOM		ľ	MINOR		
PILING		STE		H-SHAPE				
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SE</u>	EVERITY	<u>MEASUREMENT</u>	<u>COMMENT</u>
	SECTION LOSS		GROUND LINE		ľ	MINOR		(STEPHS2, 09/27/2011)CENTER PILE
STRAIGHT	WINGS	REIN	NFORCED CONCRETE	CAST-IN-PLACE				
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SE</u>	EVERITY	<u>MEASUREMENT</u>	<u>COMMENT</u>
	MAP CRACKS		RANDOM			FEW		
	SATURATION		RANDOM		N	MINOR		
BACKWAL		REIN	NFORCED CONCRETE	CAST-IN-PLACE				
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SE</u>	EVERITY	<u>MEASUREMENT</u>	<u>COMMENT</u>
	HORIZONTAL CRAC	KS	RANDOM			FEW		
	MAP CRACKS		RANDOM			FEW		
	SHOVING		THROUGHOUT		N	MINOR		
EXPANSIO	N BEARING	STE	EL	ROCKER				

MINOR

DistrictAbbr = NW and Design\_No = a1048 and County = ANDREW, ATCHISON, BUCHANAN, CALDWELL, CARROLL, CHARITON, CLINTON, DAVIESS, DEKALB, GENTRY, GRUNDY, HARRISON, HOLT, LINN, LIVINGSTON, MERCER, NODAWAY, PUTNAM, SULLIVAN, WORTH

MoDOT

**COUNTY: WORTH DISTRICT: NW CLASS: STATBR FED-ID: 846 BRIDGE: A1048** LOCATION 2 MEASUREMENT COMMENT **CONDITION** LOCATION 1 **SEVERITY BRG NO LOAD** THROUGHOUT NOT APPLICABLE (BOWDEJ1, 10/20/2009)--CENTER ROCKERS **RUSTING HEAVY THROUGHOUT** TIPPED OVER THROUGHOUT NOT APPLICABLE BENT-2 LA-10 DEGREES 26 FT 0 IN REINFORCED CONCRETE MULTIPLE COLUMN **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY** MEASUREMENT COMMENT ASSOCIATED COMPONENT **MATERIAL CONSTRUCTION** BEAM CAP REINFORCED CONCRETE CAST-IN-PLACE LOCATION 2 **CONDITION** LOCATION 1 **SEVERITY** MEASUREMENT COMMENT REBAR EXPOSED **RANDOM FEW SPALLS RANDOM** MINOR **COLUMN** REINFORCED CONCRETE **CAST-IN-PLACE CONDITION** LOCATION 2 **SEVERITY MEASUREMENT COMMENT LOCATION 1 FOOTING** REINFORCED CONCRETE **SPREAD CONDITION LOCATION 1 LOCATION 2 SEVERITY** <u>MEASUREMENT</u> **COMMENT** REINFORCED CONCRETE CAST-IN-PLACE TIE BEAM **CONDITION** LOCATION 1 **LOCATION 2** SEVERITY *MEASUREMENT* **COMMENT** STEEL PEDESTAL(ROTATING) FIXED BEARING **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY** MEASUREMENT **COMMENT** BENT-3 LA-14 DEGREES 26 FT 6 IN REINFORCED CONCRETE MULTIPLE COLUMN **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY** MEASUREMENT **COMMENT** ASSOCIATED COMPONENT **MATERIAL CONSTRUCTION** REINFORCED CONCRETE BEAM CAP CAST-IN-PLACE **CONDITION** LOCATION 1 **LOCATION 2 SEVERITY** MEASUREMENT COMMENT REBAR EXPOSED RANDOM **FEW SPALLS RANDOM MINOR** COLUMN REINFORCED CONCRETE CAST-IN-PLACE **MEASUREMENT** COMMENT **CONDITION** LOCATION 1 **LOCATION 2** SEVERITY **FOOTING** REINFORCED CONCRETE SPREAD **CONDITION** LOCATION 1 **LOCATION 2 SEVERITY** *MEASUREMENT* **COMMENT** TIE BEAM REINFORCED CONCRETE **CAST-IN-PLACE CONDITION** LOCATION 1 LOCATION 2 **SEVERITY** MEASUREMENT **COMMENT EXPANSION BEARING** STEEL **ROCKER CONDITION LOCATION 1** LOCATION 2 SEVERITY MEASUREMENT COMMENT ABUTMENT-4 LA-20 DEGREES 32 FT 6 IN REINFORCED CONCRETE NON-INTEGRAL **CONDITION SEVERITY** MEASUREMENT COMMENT **LOCATION 1** LOCATION 2 ASSOCIATED COMPONENT **MATERIAL CONSTRUCTION** BEAM CAP REINFORCED CONCRETE CAST-IN-PLACE **CONDITION LOCATION 1** LOCATION 2 **SEVERITY MEASUREMENT COMMENT** PILING STEEL H-SHAPE **CONDITION** LOCATION 1 **SEVERITY** LOCATION 2 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 1 LOCATION 2 SEVERITY** <u>MEASUREMENT</u> <u>COMMENT</u> **SHOVING** THROUGHOUT MINOR STEEL **EXPANSION BEARING ROCKER CONDITION LOCATION 2 LOCATION 1 SEVERITY** MEASUREMENT COMMENT

MODOT

RECORD#

# **Missouri Department of Transportation State Bridge Inspection Report**

February 23, 2023 9:20:48AM

**COUNTY: WORTH DISTRICT: NW CLASS: STATBR FED-ID: 846** 

\*\*\*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** 

**COMMENT** 

CLEARANCES UNDER BRIDGE

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

**DIRECTION OF TRAFFIC** RIGHT LATERAL CLEARANCE

**LEFT LATERAL CLEARANCE** 

**UR-ID** 

DEPARTMENT REPAINT

**MANUFACTURE:** 

**SURFACE PREP:** 

**BRIDGE: A1048** 

**VERTICAL CLEARANCE TYPE\*\*** 

**ROUTE** 

**VALUE** 

# LANES

**DIRECTION** 

DATE

\*\*\*STRUCTURE PAINT INFORMATION\*\*\*

**CONDITION:** 

GOOD

**RUST AMOUNT:** 7 = .2% OF SURFACE RUSTED

STEEL TONS: 88

**PAINT TYPE:** A SYSTEM

**PAINT COLOR: ALUMINUM** 

**NAME:** RED LEAD

ORIGINAL PAINT

**PAINT TYPE:** NAME: **PAINT TYPE:** 

NAME:

**PAINT COLOR:** 

**PAINT COLOR:** 

**PAINT YEAR:** 

**PAINT YEAR:** 1963 MILS: 4

**PAINT YEAR:** MILS:

MILS:

\*\*\*REOUESTED WORK ITEMS\*\*\*

**GENERAL WORK COMMENTS:** 

DISTRICT SPECIAL

RESPONSIBILITY **LOCATION** DISTRICT ROUTINE

SEE COMMENT **ABUTMENT-BEARINGS** 

**ITEM** BACKFILL ABUTMENT-SLOPE CLEAN, PAINT, AND RESET

**CATEGORY** SLOPE **SUBSTRUCTURE** 

CONTRACT REPAINT

**PRIORITY** 3 3

**DATE** 12/04/2008 10/13/2009

**WORK ITEM COMMENT** (BOWDEJ1, 03/02/2009)--BOTH ABUTMENT SLOPES

\*\*\*UTILITY ATTACHMENTS\*\*\*



February 23, 2023 9:20:48AM

**COUNTY: WORTH** 

**DISTRICT: NW** 

**CLASS: STATBR** 

**FED-ID: 846** 

**BRIDGE: A1048** 

UTILITY OWNER METHOD MEASUREMENT TYPE VALUE NUMBER UTILITY ATTACHMENT COMMENT

\*\*\*PROGRAM NOTES INFORMATION\*\*\*

YEAR PROJECT # MONTH LET YEAR LET ITEMS

***COMPU	TER GENERATED RATINGS AND D	DEFICIENCY ITEMS***	***ADVANCED SIGN INFORMATION***				
NOTE: The items listed in this section are updated whenever computer edits are ran on a structure after the inspection updates have been entered in to TMS.			SIGN#	SIGN TYPE	PROBLEM	PROBLEM DIRECTION	
Rated Item	<b>Rating</b>	Rating Date	1				
[Item 67] Structure Evaluation Rating:	5-BETTER THAN MINIMUM	5/18/2001					
[Item 68] Deck Geometry Rating:	5-BETTER THAN MINIMUM	4/14/2017					
[Item 69] Underclearance:	N-NOT APPLICABLE	5/18/2001					
Sufficiency Rating:	66.1%	3/8/2022					
Deficiency:	STRUCTURAL	1/4/2008					
Funding Eligibility:	PARTIAL			***OUTFALL INSP	PECTION INFORMATIO	N***	
<b>Estimated New Structure Length:</b>	266 FT.						
<b>Estimated Structure Cost:</b>	\$940,395		# OUTFALLS:	IN	SPECTOR:		
Estimated Total Project Cost:	\$1,410,593		STATUS:		DATE:		
Year of Cost Estimate:	2023		NOTES:				
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.							



February 23, 2023 9:20:48AM

COUNTY: WORTH DISTRICT: NW CLASS: STATBR FED-ID: 846 BRIDGE: A1048

February 23, 2023 9:27:11AM

# Missouri Department of Transportation State Bridge Inspection Report

COUNTY: GENTRY DISTRICT: NW CLASS: STATBR FED-ID: 1565 BRIDGE: A1874

MoDOT

\*\*\*GENERAL STRUCTURE INFORMATION\*\*\* \*\*\*BRIDGE INSPECTION INFORMATION\*\*\* **ROUTE: RTBS # SPANS:** 3 PLACE CODE: 80188 WILSON **RESPONSIBILITY: DISTRICT DATE:** 11/04/2021 LANES ON: 2 FEATURE: ZOUNDS CR **LENGTH:** 106 FT 0 IN FREQUENCY: 24 **CALCULATED INTERVAL\*\*: 24** LANES UNDER: 0 STATUS: A-OPEN **MAXIMUM SPAN: 45 FT 3 IN TEAM LEADER: SCOTT STEPHENS ELEMENT: NO LOG MILE: 5.120 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: 26 FT 0 IN INSPECTOR 3: OUT TO OUT: 28 FT 10 IN** NHS: NO FUNCTIONAL CLASS: RL-MAJOR COLLECTOR \*\* When calculated interval exceeds the frequency, a justification comment per BIRM is required. **BUILT:** 1967 **NBI OWNER: MODOT AADT:** 446 **GENERAL INSPECTION COMMENTS** REHAB: **NBI MAINTAINED: MODOT AADT YEAR: 2022** MAINTENANCE DISTRICT: NW LOCATION: S 31 T 64 R 32 W **AADT TRUCK: 11.2% LATITUDE:** 40 18 46.50 (DMS) **MAINTENANCE COUNTY: GENTRY FUTURE AADT: 580 LONGITUDE:** 94 32 50.22 (DMS) SUB AREA: 7A01 **FUTURE AADT YEAR: 2042** \*\*\*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:** 11/09/2022 **CATEGORY: DECK DATE:** 11/09/2022 **CATEGORY: DRY RESPONSIBILITY: DISTRICT RESPONSIBILITY: DISTRICT** FREOUENCY: 60 NBI: NO FREOUENCY: 12 CALCULATED INTERVAL\*\*: 12 **NBI:** NO CALCULATED INTERVAL\*\*: 12 **TEAM LEADER: BRYCE ACTON** TEAM LEADER: BRYCE ACTON **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

MoDOT

# **Missouri Department of Transportation State Bridge Inspection Report**

February 23, 2023 9:27:11AM

**COUNTY: GENTRY DISTRICT: NW CLASS: STATBR FED-ID: 1565 BRIDGE: A1874** CALCULATED INTERVAL RESPONSIBILITY METHOD **FREQUENCY CATEGORY** NBI DATE FREQUENCY CATEGORY NBI CALCULATED INTERVAL RESPONSIBILITY **METHOD DATE** WT TAPE NO 11/04/2021 24 CHANNEL CROSS 28 DISTRICT **SECTIONS** 999 **QUALITY** NO BRIDGEDIV 01/31/2018 **ASSURANCE** 01/01/1 999 SCOUR ACTION PLAN NO \*\*\*STRUCTURE POSTING\*\*\* **APPROVED CATEGORY:** S-1 NO POSTING REQUIRED **Ton 2: Ton 3: Ton 1: 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, 11/16/2009)--(30'-45'-30') SMP WF GDR SPANS [ITEM 58] DECK: 4-POOR CONDITION COMMENTS: (STEPHS2, 11/27/2013)--DECK SATURATION (SHUNAT1, 02/08/2018)--MANY PATCHES THROUGHOUT **RATING:** 11/16/2009 [ITEM 59] SUPER: 7-GOOD CONDITION COMMENTS: (SHUNAT1, 02/08/2018)--MOD RUSTING WEBS EXT GRDRS @ JOINT AREAS **RATING:** 05/18/2001 COMMENTS: (SHUNAT1, 02/08/2018)--PILING RUSTING. MINOR SPALL AND DELAM ON CAPS @ INTERMEDIATE BENTS [ITEM 60] SUB: 7-GOOD CONDITION **RATING:** 02/08/2018 [ITEM 61] BANK/CHANNEL: 6-WIDESPREAD MINOR DAMAGE COMMENTS: (MENDER1, 11/21/2017)--REPAIRS COMPLETED 2017 (SHUNAT1, 02/08/2018)--MINOR EROSION OF STREAM BANK **RATING:** 02/08/2018 [ITEM 113] SCOUR: 3-SCOUR CRITICAL-UNSTABLE COMMENTS: (CALLAC, 01/16/2003)--ITEM 113 = 3, SCOUR CAT. = C, BASED ON USGS CALCULATIONS, MODERATE PILE EXPOSURE DUE TO CONTRACTION SCOUR, **RATING:** 01/16/2003 **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\*\*\* **[ITEM 36A] BRIDGE RAILING RATING:** NOT PROVIDED-0 **RATING:** 05/18/2001 **COMMENTS:** 

February 23, 2023 9:27:11AM

**Missouri Department of Transportation State Bridge Inspection Report** 

MODOT **COUNTY: GENTRY DISTRICT: NW CLASS: STATBR FED-ID: 1565 BRIDGE: A1874** CONSTRUCTION DIRECTION **COMMENTS** MATERIAL REINFORCED CONCRETE **PARAPET BOTH CONDITION** LOCATION 1 **LOCATION 2 SEVERITY COMMENT** VERTICAL CRACKS **THROUGHOUT** MINOR REINFORCED CONCRETE **CURB BOTH CONDITION** LOCATION 1 **LOCATION 2 SEVERITY COMMENT** MAP CRACKS **THROUGHOUT** MINOR **BOTH ALUMINUM** CIRCULAR TUBE [ITEM 36B] TRANSITION RAILING RATING: NOT PROVIDED-0 **RATING:** 05/18/2001 **COMMENTS:** [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:** APPROACH PAVEMENT: \*Overall condition assigned for each approach pavemenet component is shown below. **DIRECTION MATERIAL CONSTRUCTION CONDITION\* COMMENTS ASPHALT BITUMINOUS MAT BOTH FAIR** \*\*\*DRAINAGE, EXPANSION DEVICES, BANK/SLOPE, AND DECK PROTECTIVE COMPONENTS\*\*\* **DECK PROTECTIVE COMPONENTS:** SERIES TYPE-# **COMPONENT OVERALL CONDITION MATERIAL CONSTRUCTION THICKNESS** YEAR APPLIED MANUFACTURE MAIN SERIES-1 WEARING SURFACE PLAIN CONCRETE *MONOLITHIC* **COMMENT: NONE DECK PROTECTION** *NOTAPPLICABLE* **COMMENT:** 

*MEMBRANE* 

*NOTAPPLICABLE* 

**NONE** 

**DRAINAGE COMPONENTS:** 

**COMPONENT DRAINAGE** 

**MATERIAL** REINFORCED CONCRETE **CONSTRUCTION** CURB OUTLET

**DIRECTION COMMENTS** 

**EXPANSION DEVICE COMPONENTS:** 

**COMMENT:** 

SUB UNIT-# SUB LABEL

**COMPONENT** 

**MATERIAL** 

**CONSTRUCTION** 

**GAP** 

YEAR APPLIED

**MANUFACTURE** 

**OVERALL CONDITION** 

**COMMENT:** 

**BANK/SLOPE PROTECTION COMPONENTS:** 

**COMPONENT BANK PROTECTION**  **MATERIAL** ROCK

**CONSTRUCTION** BLANKET

**DIRECTION** BOTH

**COMMENTS** 

COUNTY: GENTRY DISTRICT: NW CLASS: STATBR FED-ID: 1565 BRIDGE: A1874

MoDOT

\*\*\*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** DRIVING SURFACE **MODERATE DETERIORATION EDGE** MINOR **EFFLORESCENCE** THROUGHOUT **MODERATE** LONGITUDINAL CRACKS RANDOM **FEW PATCHES** THROUGHOUT LARGE SATURATION THROUGHOUT **MODERATE** 30 % SPALLS DRIVING SURFACE **MODERATE** 50 % TRANSVERSE CRACKS DRIVING SURFACE MANY MAIN SPANS-2 DECKCAST-IN-PLACE REINFORCED CONCRETE **CONDITION** LOCATION 2 **SEVERITY** LOCATION 1 **MEASUREMENT COMMENT DELAMINATION** DRIVING SURFACE MODERATE 20 % **DETERIORATION EDGE** MINOR **EFFLORESCENCE** THROUGHOUT **MINOR** FEW LONGITUDINAL CRACKS **RANDOM PATCHES** THROUGHOUT LARGE (SHUNAT1, 02/08/2018)--FEW SPALLS DRIVING SURFACE **MINOR** TRANSVERSE CRACKS DRIVING SURFACE MANY MAIN SPANS-3 DECKREINFORCED CONCRETE CAST-IN-PLACE **CONDITION** LOCATION 1 LOCATION 2 SEVERITY **MEASUREMENT COMMENT** DELAMINATION DRIVING SURFACE **MODERATE** 20 % **DETERIORATION EDGE MINOR EFFLORESCENCE** THROUGHOUT **MINOR** LONGITUDINAL CRACKS **RANDOM FEW FEW PATCHES** THROUGHOUT SPALLS DRIVING SURFACE **MINOR** TRANSVERSE CRACKS **DRIVING SURFACE** MANY \*\*\*SUPERSTRUCTURE COMPONENTS\*\*\* SERIES TYPE-# SPAN TYPE MATERIAL CONSTRUCTION **COMMENTS** LABEL MAIN SERIES-1 SIMPLE SPAN STEELWIDE FLANGE GIRDERS **COMPOSITE INDICATOR WEATHERING STEEL COMMENTS SPAN LENGTH** 30 FT 3 IN MAIN SPANS-1 **COMPOSITE** NO **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY MEASUREMENT COMMENT RUSTING EXTERIOR GIRDERS** WEB **MODERATE** (SHUNAT1, 02/08/2018)--@ BENT 2 MAIN SPANS-2 COMPOSITE 45 FT 3 IN NO **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY MEASUREMENT COMMENT RUSTING EXTERIOR GIRDERS** WEB **MODERATE** (SHUNAT1, 02/08/2018)--@ BENT 3 COMPOSITE NO MAIN SPANS-3 30 FT 3 IN **CONDITION LOCATION 1** LOCATION 2 **SEVERITY** MEASUREMENT **COMMENT** 

COUNTY: GENTRY DISTRICT: NW CLASS: STATBR FED-ID: 1565 BRIDGE: A1874

MODOT

COUNTY: GENTRY	DISTRICT: NW	CLASS: STATBR	red-i	D: 1565	BRIDGE: A1874
		***SUBSTRUCTU	RE COMPONENTS*	**	
SUBSTRUCTURE SKEW	LENGTH MATERIAL	CONSTRUCTION	LABEL COMMENT		
ABUTMENT-1 RA-30 DEGREES	35 FT 2 IN REINFORCED CONCRETE	NON-INTEGRAL		<u>~</u>	
CONDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT
			<u>SEVERITI</u>	MEASUKEMENT	COMMENT
ASSOCIATED COMPONENT	MATERIAL	<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>
STRAIGHT WINGS	REINFORCED CONCRETE	CAST-IN-PLACE			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<b>MEASUREMENT</b>	<u>COMMENT</u>
BACKWALL	REINFORCED CONCRETE	CAST-IN-PLACE			
CONDITION	<u>LOCATION 1</u>	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
EXPANSION BEARING	STEEL	SLIDING FLAT PLATE	· · · · · · · · · · · · · · · · · · ·		<u></u>
EATANSION BEARING  CONDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	<b>MEASUREMENT</b>	COMMENT
<u>CONDITION</u>	<u>LOCATION I</u>	<u>LOCATION 2</u>	<u>SEVERITI</u>	<u>MEASUKEMENT</u>	COMMENT
BENT-2 RA-30 DEGREES	29 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>	<b>CONSTRUCTION</b>			
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE			
CONDITION	LOCATION 1	LOCATION 2	SEVERITY	<b>MEASUREMENT</b>	COMMENT
DELAMINATION			MINOR		
SPALLS	RANDOM		MINOR		
PILING	STEEL	PIPE	Militor		
CONDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT
PACK RUST	THROUGHOUT	<u>ECCATION 2</u>	MINOR	MEMBEREINE	COMMENT
EXPANSION BEARING	STEEL	SLIDING FLAT PLATE			
EATANSION BEARING  CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
		<u>LOCATION 2</u>		MEASUKEMENT	COMMENT
PACK RUST	THROUGHOUT		MINOR		
BENT-3 RA-30 DEGREES	29 FT 0 IN REINFORCED CONCRETE	PILE CAP			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<b>MEASUREMENT</b>	<u>COMMENT</u>
ASSOCIATED COMPONENT	MATERIAL	CONSTRUCTION			
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE			
<u>CONDITION</u>	<u>LOCATION 1</u>	LOCATION 2	<u>SEVERITY</u>	<b>MEASUREMENT</b>	COMMENT
DELAMINATION			MINOR		
PILING	STEEL	PIPE	MINOR		
CONDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT
PACK RUST	THROUGHOUT	LOCATION 2	MINOR	MEMBURLINE	COMMENT
	STEEL	CLIDING ELAT DI ATE			
EXPANSION BEARING		SLIDING FLAT PLATE		MEACHDEMENT	COMMENT
CONDITION	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT
PACK RUST	THROUGHOUT		MINOR		
ABUTMENT-4 RA-30 DEGREES	35 FT 2 IN REINFORCED CONCRETE	NON-INTEGRAL			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<b>MEASUREMENT</b>	<u>COMMENT</u>
ASSOCIATED COMPONENT	<u>MATERIAL</u>	<u>CONSTRUCTION</u>			
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE			
CONDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
PILING	REINFORCED CONCRETE	CAST-IN-PLACE	~~, ~!!!!!!		
CONDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT
· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	<u>SEVEMITI</u>	MEASUREMENT	COMMENT.
STRAIGHT WINGS	REINFORCED CONCRETE	CAST-IN-PLACE			

February 23, 2023 9:27:11AM

**CLASS: STATBR FED-ID: 1565 BRIDGE: A1874** 

**CONDITION** LOCATION 1 **LOCATION 2 SEVERITY** MEASUREMENT COMMENT

BACKWALL REINFORCED CONCRETE CAST-IN-PLACE **CONDITION** LOCATION 1 **LOCATION 2 SEVERITY** MEASUREMENT COMMENT

**EXPANSION BEARING** STEEL SLIDING FLAT PLATE

**CONDITION LOCATION 1 LOCATION 2 SEVERITY** <u>MEASUREMENT</u> <u>COMMENT</u>

\*\*\*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.

**DISTRICT: NW** 

**VERTICAL CLEARANCE TYPE\*\* DIRECTION** VALUE 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** 

**VERTICAL CLEARANCE TYPE\*\* DIRECTION VALUE DATE COMMENT** 

\*\*\*STRUCTURE PAINT INFORMATION\*\*\*

**CONDITION:** GOOD **RUST AMOUNT:** 9=.03% OF SURFACE RUSTED STEEL TONS: 19

**ORIGINAL PAINT CONTRACT REPAINT DEPARTMENT REPAINT** 

**PAINT TYPE:** A SYSTEM **PAINT TYPE: PAINT TYPE:** S SYSTEM **MANUFACTURE** : CARBOLINE **NAME:** RED LEAD NAME: **NAME:** CAL SULPH/LEAD PAINT **SURFACE PREP:**HAND CLEANED

**PAINT COLOR: ALUMINUM PAINT COLOR: PAINT COLOR: RED PAINT YEAR** : 1969 **PAINT YEAR:** PAINT YEAR: 2005

MILS: 5MILS: **MILS**: 10

\*\*\*REOUESTED WORK ITEMS\*\*\*

**GENERAL WORK COMMENTS:** 

MoDOT

**COUNTY: GENTRY** 



February 23, 2023 9:27:11AM

**COUNTY: GENTRY** 

**DISTRICT: NW** 

**CLASS: STATBR** 

**FED-ID: 1565** 

**BRIDGE: A1874** 

RESPONSIBILITY LOCATION ITEM CATEGORY PRIORITY DATE WORK ITEM COMMENT

\*\*\*UTILITY ATTACHMENTS\*\*\*

**VALUE** 

UTILITY OWNER

**METHOD** 

**MEASUREMENT TYPE** 

NUMBER

UTILITY ATTACHMENT COMMENT

\*\*\*PROGRAM NOTES INFORMATION\*\*\*

YEAR PROJECT # MONTH LET YEAR LET ITEMS

**COMMENT** 

***COMPU	TER GENERATED RATINGS AND D	EFICIENCY ITEMS***		***ADVANCED	SIGN INFORMATION*	**
NOTE: The items listed in this section are up	NOTE: The items listed in this section are updated whenever computer edits are ran on a structure after the inspection updates have been entered in to TMS.			SIGN TYPE	PROBLEM	PROBLEM DIRECTION
Rated Item	<u>Rating</u>	Rating Date	1			
[Item 67] Structure Evaluation Rating:	5-BETTER THAN MINIMUM	5/18/2001				
[Item 68] Deck Geometry Rating:	5-BETTER THAN MINIMUM	5/18/2001				
[Item 69] Underclearance:	N-NOT APPLICABLE	5/18/2001				
Sufficiency Rating:	70.4%	3/8/2022				
Deficiency:	STRUCTURAL	12/15/2009				
Funding Eligibility:	PARTIAL	<del></del>		***OUTFALL INSP	ECTION INFORMATIO	N***
Estimated New Structure Length:	135 FT.					·
Estimated Structure Cost:	\$532,348	<del></del>	# OUTFALLS:	IN	SPECTOR:	
Estimated Total Project Cost:	\$798,522		STATUS:		DATE:	
Year of Cost Estimate:	2023		NOTES:			
generalized to use NBI items to come up with a	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.					



February 23, 2023 9:27:11AM

COUNTY: GENTRY DISTRICT: NW CLASS: STATBR FED-ID: 1565 BRIDGE: A1874





COUNTY: WORTH A0448 2 REVIEW STATUS: APPROVED T **BRIDGE:** NBI STATUS: 2022 ROUTE CARRIED 'ON' STRUCT 1/26/2023 **RECORD TYPE:** RUN DATE: **SUBMITTAL YEAR:** GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION ROUTE CARRIED 'ON' STRUCT State MISSOURI 5A Record Type LIS District NW 5B Route Signing Prefix MAINLINE WORTH County 5C Designated Level of Service 00169 299 8 Federal ID No. 5D Route Number 1960 NOT APPLICABLE 27 Year Built 5E Directional Suffix 106 US 169 S 1975 7 Year Reconstructed Facility Carried YES HIGHWAY Type of Service On 12 Base Hwv. Network STATE HIGHWAY AGENCY 0000005862 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 YES 110 Designated Nat. Network STRUCTURE LOCATION INFORMATION STRUCTURE TRAFFIC INFORMATION 883 4 Place MIDDLEFORK AADT 29 47828 2021 Code 30 AADT Year 2-WAY TRAFFIC S 9 T 65 N R 31 W Location 102 Direction of Traffic 11 Milepoint 8.15 miles 17% 109 **AADT Truck Percent** 16 Latitude 40 D 27 M 16 S 1192 114 Future AADT 17 Longitude 94 D 24 M 14 S 2041 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION MID FK GRAND RVR 10 99 Ft. 99 In. Inventory Rte. Vert. Clear Features Intersected 42B WATERWAY 19 16.25 miles Type of Service Under By pass Detour Length 28B Lanes Under Structure 00 32 Approach Roadway Width 36 Ft. 1 In. N/A 48.00 Degrees 54A Vert. Clearance Ref. 34 Skew 54B Vert. Clearance 0 Ft. 0 In. 35 Struct. Flared Rt. Lat Clear Ref. N/A 30 Ft. 10 In. 55A 47 Total Horiz. Clear 55B Rt. Lat Clearance 0 Ft. 0 In. 48 100 Ft. 1 In. Maximum Span Length 363 Ft. 10 In. Left Lat Clearance 0 Ft. 0 In. 49 Structure Length PERMIT NOT REQ Navigation Control 50A 1 Ft. 4 In. Left Curb/Sidewalk Width Nav Vertical Clear 0 Ft. 0 In. 39 50B 1 Ft. 4 In. Right Curb/Sidewalk Width 0 Ft. 0 In. 27 Ft. 11 In. 40 Nav Horizontal Clear 51 Curb to Curb Br. Width 31 Ft. 6 In. Nav. Pier Protection Deck Width (Out-Out) 111 52 Nav. Cl. Vert. Clear 99 Ft. 99 In. 53 Vert.Clearance Over Deck





COUNTY: WORTH BRIDGE: A0448 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 20 41 Structure Status OPEN NO RESTRICTIONS  63 Oper. Rating Meth. LOAD FACTOR  64 Operating Rating 42 Tons.  65 Inventory Rating Meth LOAD FACTOR  66 Inventory Rating 25 Tons.  70 Bridge Posting Code => LEGAL LOADS  PROPOSED IMPROVEMENT INFORMATION  Sufficiency Rating 59.4 Percent STRUCTURAL Funding Eligibility PARTIAL  75A Proposed Work REHAB-GENERAL DETERIORAT  75B Work Done By Contract  76 New Struc Length 393 Ft. 8 In.  94 Struc Improve Cost \$1,554,000  95 Roadway Improve Cost \$155,000  96 Total Project Cost \$2,331,000  97 Year of Cost Estimates 2023  APPRAISAL RATING INFORMATION  36A Br. Rail App. Rating DOES NOT MEET ACCEPT STND  36B Transition Rail App. Rating MEETS ACCEPTBLE STND  36C Approach Rail App. Rating MEETS ACCEPTBLE STND  36B Deck Geometry App. Rating 5	MATERIAL/CONSTRUCTION INFORMATION           43A         Main Strue. Mat type         STEEL           43B         Main strue Constr. Type         STRINGER/MULTIBEAM - GRD           45         # of Main Spans         3           44A         Appr Strue. Mat type         STEEL           44B         Appr Strue. Cnstr. type         STRINGER/MULTIBEAM - GRD           46         # of Approach Span         2           107         Deck Mat/Constr.         1 CONCRETE CIP           108A         Wear Surf Mat/Constr.         0 NONE           108C         Deck Protect Mat/Constr.         0 NONE           CONDITION RATING INFORMATION           58         Deck Cond. Rating         4           59         Superstructure Cond. Rating         5           60         Substructure Cond. Rating         6           61         Channel /Channel Protection Cond. Rating         6           62         Culvert Cond. Rating         N           INSPECTION INFORMATION           90         Gen. Insp. Frequency         24         Months           92A         Frac. Critical Inspection         N         Months           93B         Underwater Inspection         N         Months </th
69 Underclearance App. Rating N	BORDER BRIDGE INFORMATION
71 Waterway Adeq. App. Rating 8 72 Approach Road App. Rating 8 113 Scour Assess App. Rating 8	98 Neighboring State Code 98B Neighboring State % Respon 99 Neighboring State Struc. No.
APPROVED POSTING INFORMATION	FIELD POSTING INFORMATION
Approved Posting Category S-1	Field Posting Category S-1
Ton1 Ton2 Ton3  Tonnage Values for Posting Sign  General Text for Posting Sign  NO POSTING REQUIRED	Ton 1 Ton 2 Ton 3  Tonnage Values for Posting Sign  General Text for Posting Sign  NO POSTING REQUIRED

DistrictAbbr = NW and Design\_No = a0448 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: WORTH A1048 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 WORTH County 5C Designated Level of Service 846 0000M 8 Federal ID No. 5D Route Number 1962 NOT APPLICABLE 27 Year Built 5E Directional Suffix RT M 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 268 4 Place DENVER VILLAGE AADT 29 19162 2021 Code 30 AADT Year 2-WAY TRAFFIC S 31 T 65 N R 30 W Location 102 Direction of Traffic 11 Milepoint 5.63 miles 109 **AADT Truck Percent** 16 Latitude 40 D 23 M 52 S 348 114 Future AADT 17 Longitude 94 D 19 M 37 S 2041 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION E FK GRAND RVR 10 99 Ft. 99 In. Inventory Rte. Vert. Clear Features Intersected 42B WATERWAY 19 25.00 miles Type of Service Under By pass Detour Length 28B Lanes Under Structure 00 32 Approach Roadway Width 20 Ft. 0 In. N/A 14.00 Degrees 54A Vert. Clearance Ref. 34 Skew 54B Vert. Clearance 0 Ft. 0 In. 35 Struct. Flared Rt. Lat Clear Ref. N/A 23 Ft. 11 In. 55A 47 Total Horiz. Clear 55B Rt. Lat Clearance 0 Ft. 0 In. 48 99 Ft. 1 In. Maximum Span Length 232 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. 23 Ft. 11 In. 40 Nav Horizontal Clear 51 Curb to Curb Br. Width 26 Ft. 7 In. Nav. Pier Protection Deck Width (Out-Out) 111 52 Nav. Cl. Vert. Clear 99 Ft. 99 In. 53 Vert.Clearance Over Deck



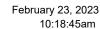


COUNTY: WORTH BRIDGE: A1048 REVIEW STATUS: APPROVED NBI STATUS: T

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

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
108C Deck Protect Mat/Constr. 0 NONE
CONDITION RATING INFORMATION   58   Deck Cond. Rating   4   59   Superstructure Cond. Rating   7   60   Substructure Cond. Rating   6   61   Channel /Channel Protection Cond. Rating   5   62   Culvert Cond. Rating   N     INSPECTION INFORMATION   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.
FIELD POSTING INFORMATION
Field Posting Category S-1  Ton1 Ton2 Ton3  Tonnage Values for Posting Sign  General Text for Posting Sign  NO POSTING REQUIRED

DistrictAbbr = NW and Design\_No = a1048 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: GENTRY A1874 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 **GENTRY** County 5C Designated Level of Service 0000B1565 8 Federal ID No. 5D Route Number 1967 NOT APPLICABLE 27 Year Built 5E Directional Suffix RT B 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 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 440 4 WILSON Place AADT 29 80188 2021 Code 30 AADT Year 2-WAY TRAFFIC S 31 T 64 N R 32 W Location 102 Direction of Traffic 11 Milepoint 5.15 miles 11% 109 **AADT Truck Percent** 16 Latitude 40 D 18 M 47 S 572 114 Future AADT 17 Longitude 94 D 32 M 50 S 2041 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION ZOUNDS CR 10 99 Ft. 99 In. 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. N/A 30.00 Degrees 54A Vert. Clearance Ref. 34 Skew 54B Vert. Clearance 0 Ft. 0 In. 35 Struct. Flared Rt. Lat Clear Ref. N/A 25 Ft. 11 In. 55A 47 Total Horiz. Clear 55B Rt. Lat Clearance 0 Ft. 0 In. 48 45 Ft. 3 In. Maximum Span Length 105 Ft. 12 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. 25 Ft. 11 In. 40 Nav Horizontal Clear 51 Curb to Curb Br. Width 28 Ft. 10 In. Nav. Pier Protection Deck Width (Out-Out) 111 52 Nav. Cl. Vert. Clear 99 Ft. 99 In. 53 Vert.Clearance Over Deck



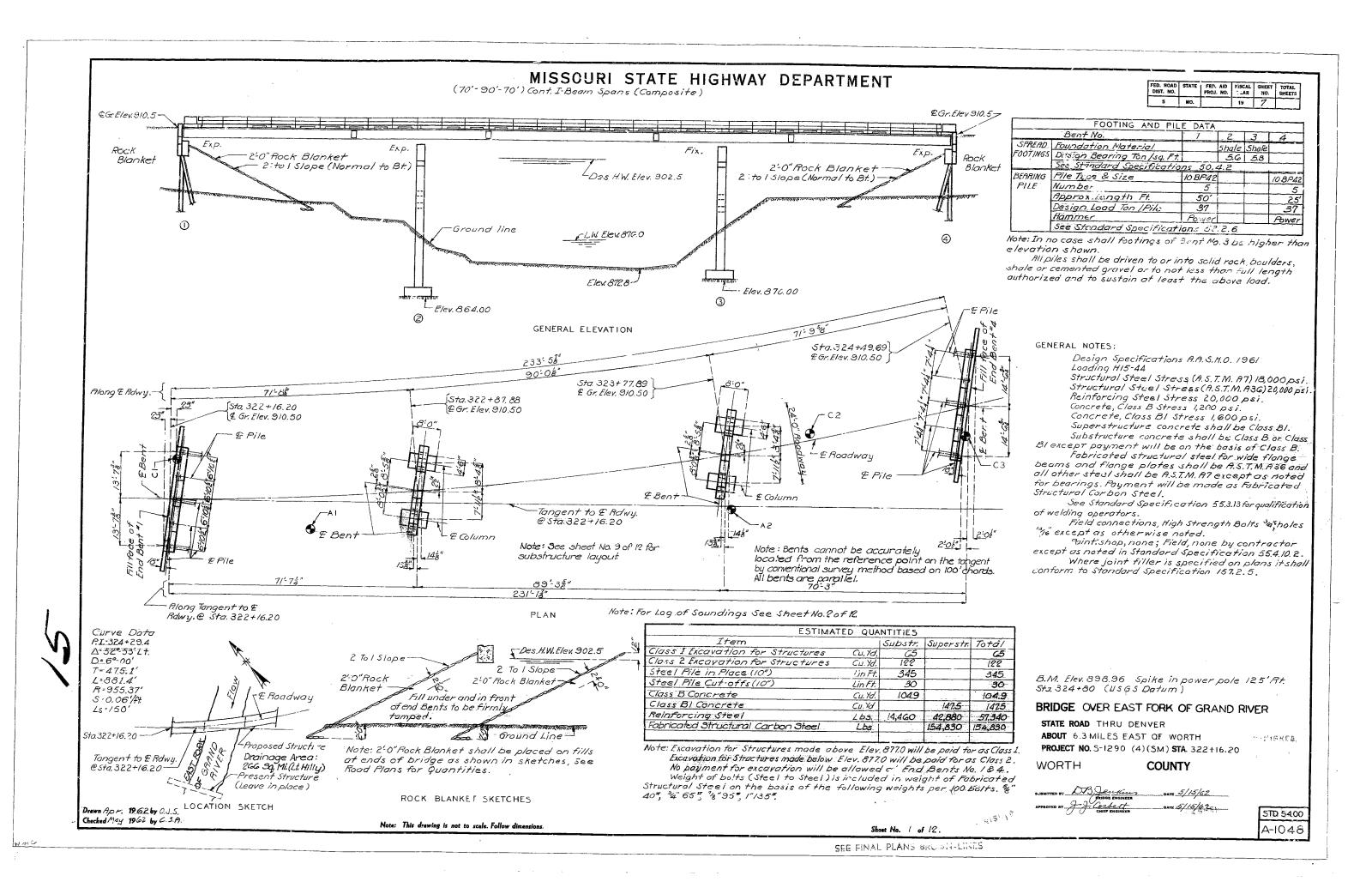


COUNTY: GENTRY BRIDGE: A1874 REVIEW STATUS: APPROVED NBI STATUS: T

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 YEAR: 2022
LOAD RATING AND POSTING INFORMATION	MATERIAL/CONSTRUCTION INFORMATION
31   Design Load	43A Main Struc. Mat type STEEL  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
PROPOSED IMPROVEMENT INFORMATION  Sufficiency Rating 70.4 Percent	108B Membrane Mat/Constr. 0 NONE
Deficiency Rating STRUCTURAL Funding Eligibility PARTIAL	108C   Deck Protect Mat/Constr. 0 NONE   CONDITION RATING INFORMATION
75A Proposed Work REHAB-GENERAL DETERIORAT  75B Work Done By Contract	58 Deck Cond. Rating 4  59 Superstructure Cond. Rating 7
76 New Struc Length 134 Ft. 6 In.	60 Substructure Cond. Rating 7
94 Struc Improve Cost \$ 532,000	61 Channel /Channel Protection Cond. Rating 6
95 Roadway Improve Cost \$53,000	62 Culvert Cond. Rating N
96 Total Project Cost \$799,000 97 Year of Cost Estimates 2023	INSPECTION INFORMATION
	90 Gen. Insp Date 11 / 21
APPRAISAL RATING INFORMATION	91 Gen. Insp. Frequency 24 Months
36A Br. Rail App. Rating DOES NOT MEET ACCEPT STND	92A Frac. Critical Inspection N Months
36B   Transition Rail App. Rating   DOES NOT MEET ACCEPT STND     36C   Approach Rail App. Rating   DOES NOT MEET ACCEPT STND	93A Frac. Critical Insp. Date  92B Underwater Inspection N Months
36D Rail End Treat. App. Rating DOES NOT MEET ACCEPT STND	93B Underwater Insp. Date
67 Struc Eval App. Rating 5	92C Special Inspection N Months
68 Deck Geometry App. Rating 5	93C Special Inspection Date
69 Underclearance App. Rating N	BORDER BRIDGE INFORMATION
71 Waterway Adeq. App. Rating 6  72 Approach Road App. Rating 8	98 Neighboring State Code
72 Approach Road App. Rating 8  Scour Assess App. Rating 3	98B Neighboring State % Respon
115 Scoul Assess App. Rating	99 Neighboring State Struc. No.
APPROVED POSTING INFORMATION	FIELD POSTING INFORMATION
Approved Posting Category S-1	Field Posting Category S-1
Ton1 Ton2 Ton3	Ton1 Ton2 Ton3
Tonnage Values for Posting Sign	Tonnage Values for Posting Sign
General Text for Posting Sign	General Text for Posting Sign
NO POSTING REQUIRED	NO POSTING REQUIRED

DistrictAbbr = NW and Design\_No = a1874 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



#### MISSOURI STATE HIGHWAY DEPARTMENT COMPLETE BILL OF REINFORCING STELL NO. SIZE LENGTH MARK LOCATION BANDING SKETCHES & CUTTING DIAGRAMS NO. SIZE LENGTH MARK LOCATION Fni Sent No.3 Con t. 60 \*3 - 919" Pr Column 2 \*6 3 - 31 - 64 Beam 1 \*10 11:-3" 97 " 4 \*6 9-3" 68 " 6 \*9 12: 3" 69 " 2 \*6 26: 3" 610 " 7 \*12 26: 3" 611 " 6 \*8 18: 6' 6/2 Te Beam 8 \*2 19:9" W1 A.B. Wells 16 \*8 11:-3" V9 Column 16 \*8 24: 9" V10 " Fnd Bent No.4 2 \*6 11:-6' T4 Wing 2 \*6 10:-3" T5 " 2 \*6 10:-9" T7 " Int. Sent No.3 Con't.\_\_ End Bent No.1 4 \*6 32-3" H/ Beam 2 \*6 30-3" H/2 " 4 \*6 5-9" H3 " 4 \*6 14-0" H4 \* 15" 2.0" 4 6 9-6" 45 4 \*6 9-6 H5 " 4 \*6 13:3" H6 " 2 \*6 28:3" H7 Back Wall 4 \*4 28:3" H8 " " 6 \*6 9-0 H9 Wing 2 \*6 5:9" H10 " 2 \*6 7:3" H11 " 1 \*6 6:3" H12 " 2'10" 8'8" 10:0" 6 V4 Cut 6 6 V5 Cut 6 652 CU+6 20 53 01+20 1 "6 4'-6" H13 1 "6 4'-9" H14 or Silt. Sand 2 \*6 10-6" 72 Elev. 866.00 11 #4 11-9" UI Beam 8 #4 12'9" U2 " Weathered Limestone or Boulders 10 #4 1/1-9" U/ Beam 8 #4 /2'.9" U2 " 5 #4 /3'-6" U2; " 6 #4 /4'-6" U4 " 7 #4 13'-6" 43 Elev. 865.60 Silty Weathered Shaley (Bonner Springs) Shale Elev.855.00 10 #4 3.59" U5 " 10 #4 3.59" W1 7.8. We// 48 \*5 6-3" V1 Back Wali 3 \*4 9'-0" V2 " " 3 \*4 7'-6" V3 " " 3 \*4 1/-6" V4 Wing 3 \*4 10:0" V5 " Shole 000 12'82" H4 11'112" H6 CI 29'-8" HI 31'-5" HI7 03-H1-H17 9 68 G7 10 68 G9 H4-H6 7722 Superstructure DI-61-63-67-69 300 \*5 26'3' S/ 6 \*5 28'6' S2 20 \*5 27'9' S3 280 \*4 30'3' S4 224 \*5 30'6' S5 63 \*5 /6'0' S6 2'84" 111-112-113-114 2'28" PJ - UG - UIO - UII 2'28" PJ - UG - UIO - UIII G \*5 10'-0" U6 Beom G \*5 8'-3" U7 " II \*5 9'-3" U8 " II \*5 11'-0" U9 " II \*5 12'-3" U10 " II \*5 12'-3" U10 " II \*5 12'-3" U10 " II \*6 \*4 3'-3' U12 " II \*8 10'-9" W1 AB UEB IO \*8 10'-9" W1 AB UEB IO \*8 30'-9" V6 " Int. 3ent No. 3 IO \*8 30'-9" V6 " Int. 3ent No. 3 IO \*5 4'-3" D2 " IO \*7 9'-9" D3 " IO \*6 8'-3" F1 Haunch IO \*8 9'-6" F2 " G \*5 10'-0" II 6 Beam G \*5 8'-3" U7 " II \*5 9'-3" U8 " 40 =5 PI,UI,U2,U3,U4,U6,U7,U8,U9,U10,U11,U13 FZ 24 \*5 20 \*5 20 \*5 298 \*5 4 \*5 4:0"C3 82 7'-3"F1 11" CZ 9" RZ /2 \*6 36'9" C4 /3 \*6 31'6' C5 /2 \*6 37'0" C6 2'-84"115 2:3"1112 Spot Weld #2 bars CI-C2-R2-U5-U12 TI-T2-T3-T4-T5-T6-T7 Drawn Apr. 1962 by O.J.S.

Note: This drawing is not to scale. Follow dimes

Checked May 1962 by C.S.A.



Elev. 854.50 Shale, Dark Gray Elev. 844.50

Bottom on Shale

Dark Gray Shaly Stone (Elev. 876,00) Dark Gray Shale (Elev. 871.50) Bottom on Shale C2 Elev. 891.50 Brown Collyvium Elev.877.50

> Sandy Clay, Free Water Flev. 868.50 Sand Flex. 867.50 Boulders Elev. 865.20 Shale Elev. 863.40

Bettom on Limestone ÀΙ

LOG OF SOUNDINGS Note: Sounding CI,C2 and C3 taken with a core drill. Soundings Al and Al taken with an auger

Elev. 893.0 Top Scil (Elev. 891.50) Block Silt (Elev 889.00) Light Brown Sandy Clay (Elev. 896.00) Sand & Till or Wea! Limestone (Elev. 884.20) Limestone, White (Elev. 881.20) 因\Shale Black (Elev. 880.80) Limestone (Elev. 879.20)

FED. ROAD STATE FED. AID FISCAL SHEFT TOTAL DIST. NO. PROJ. NO. YEAR NO. SHEETS

Bottom on Limestone C3

> Elev. 894.00 Black Colluvium Elev. 884.00 Boulders Elev. 883.10 Limestone Elev. 382.70 Elev. 882,20

Bottom on Limestone A 2

rivis He

BRIDGE OVER EAST FORK OF GRAND RIVER

STATE ROAD THRU DENVER ABOUT 6.3 MILES EAST OF WORTH

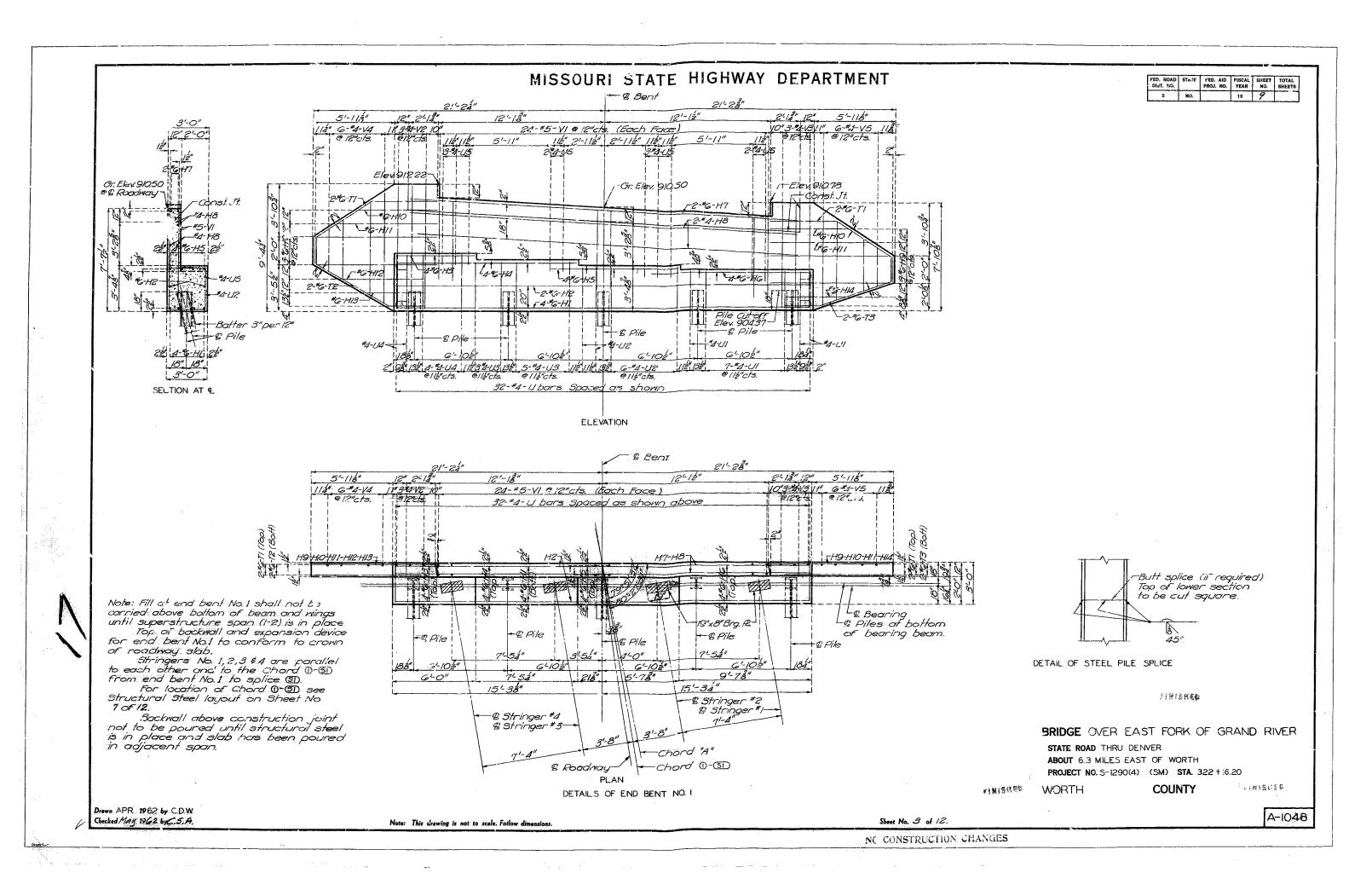
PROJECT NO. 5-1290 (4) (SM) STA. 322+16.20 FINISHED

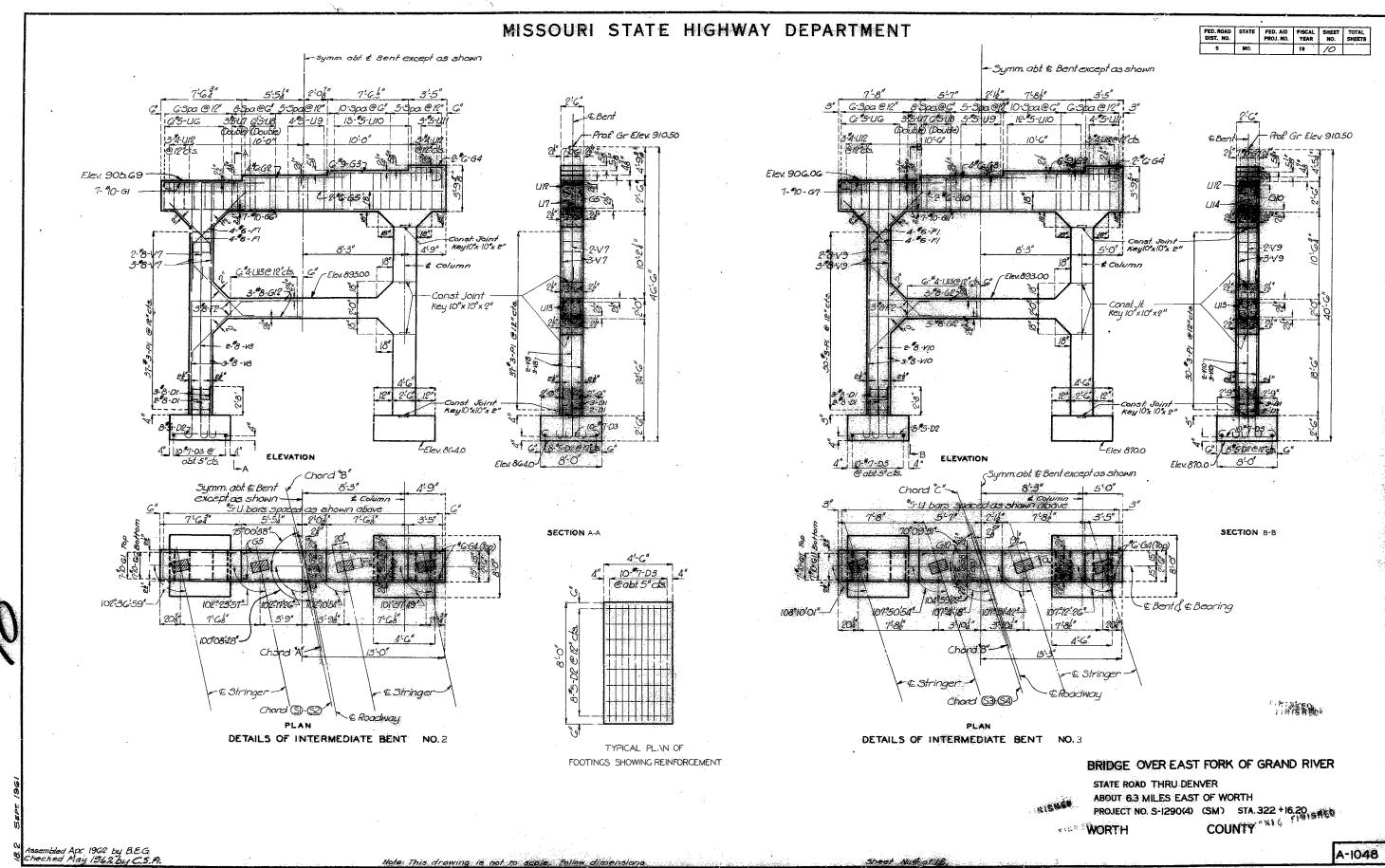
WORTH

LIMITED ST

COUNTY

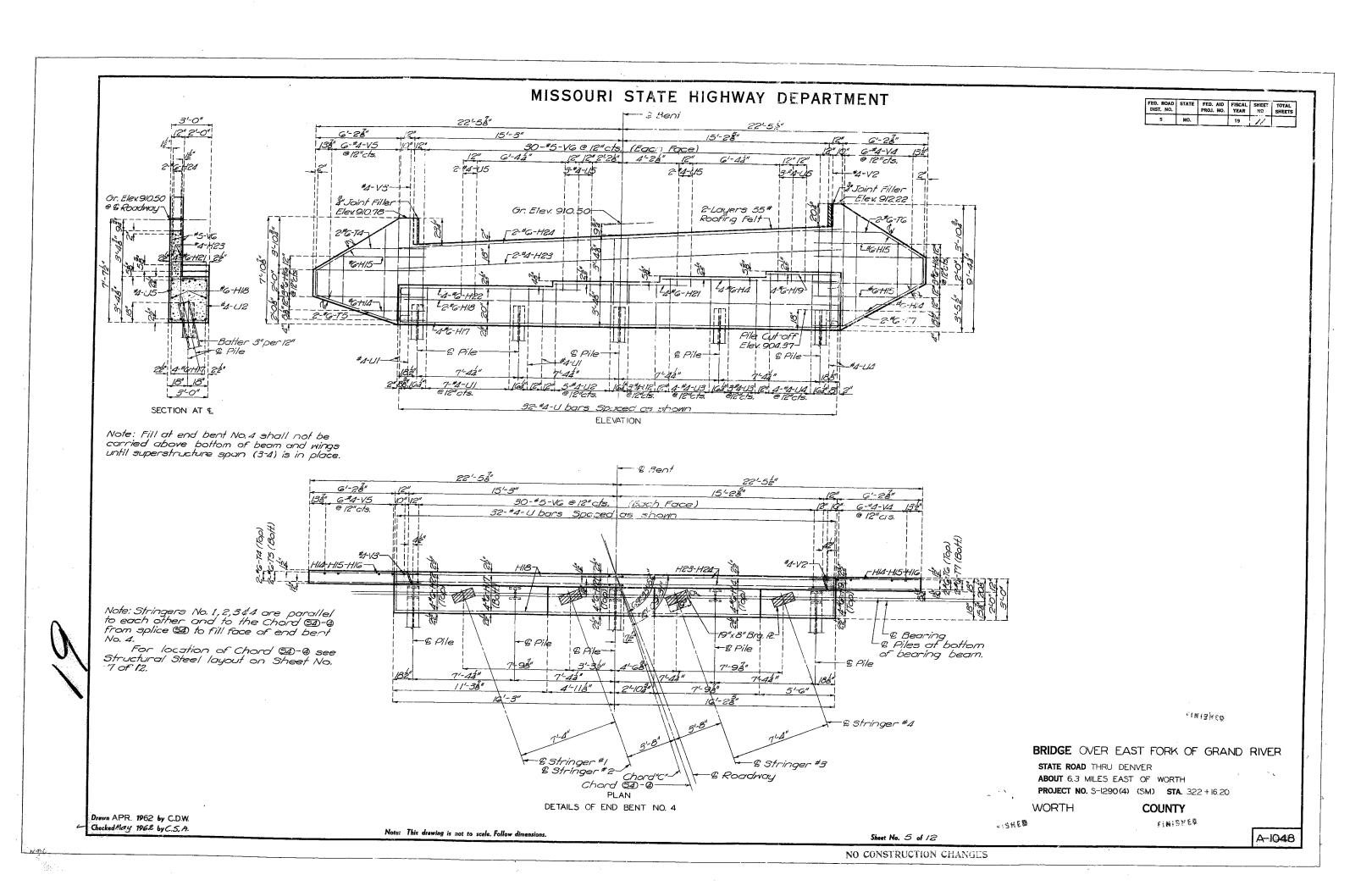
R-1048

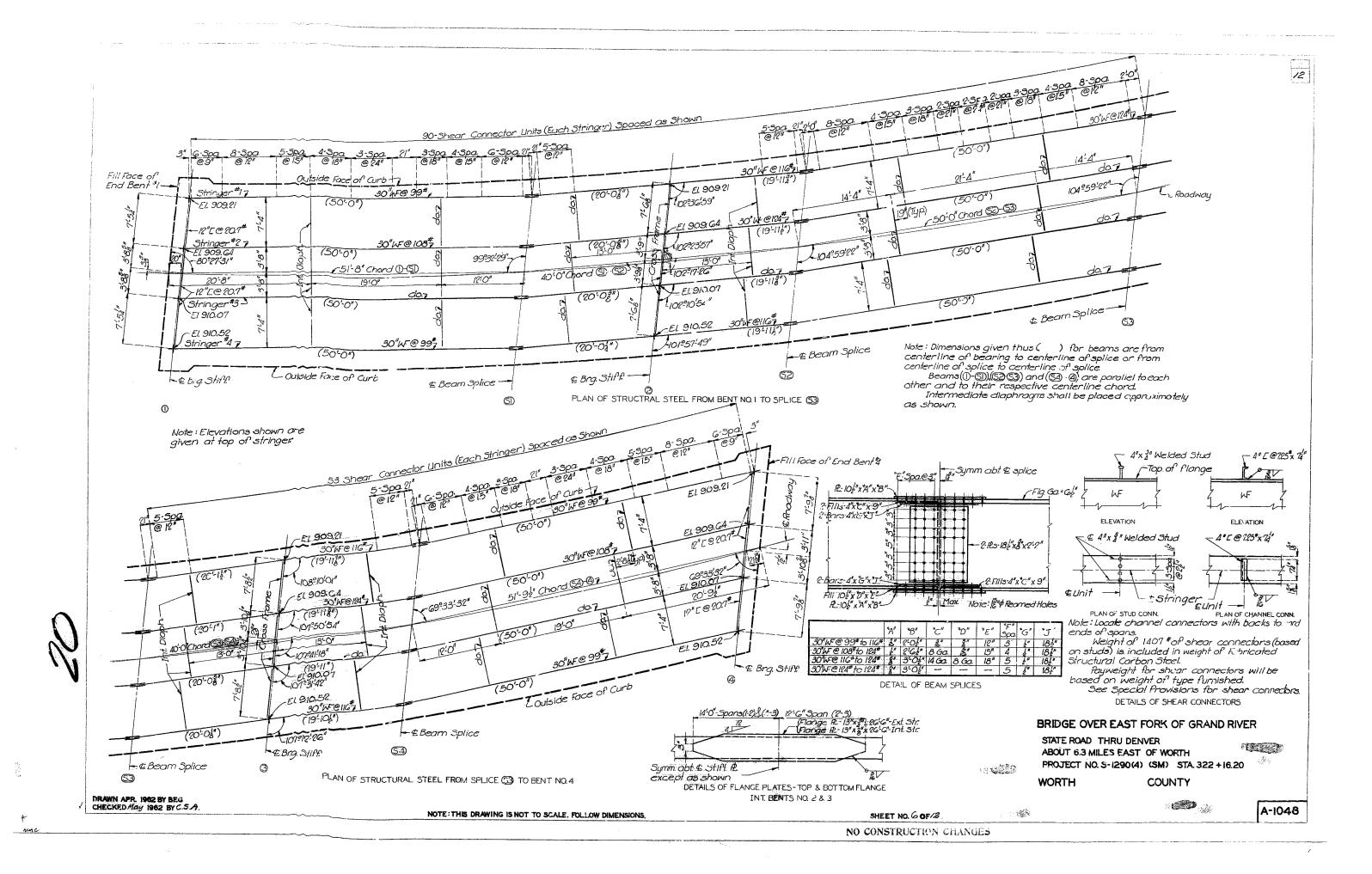


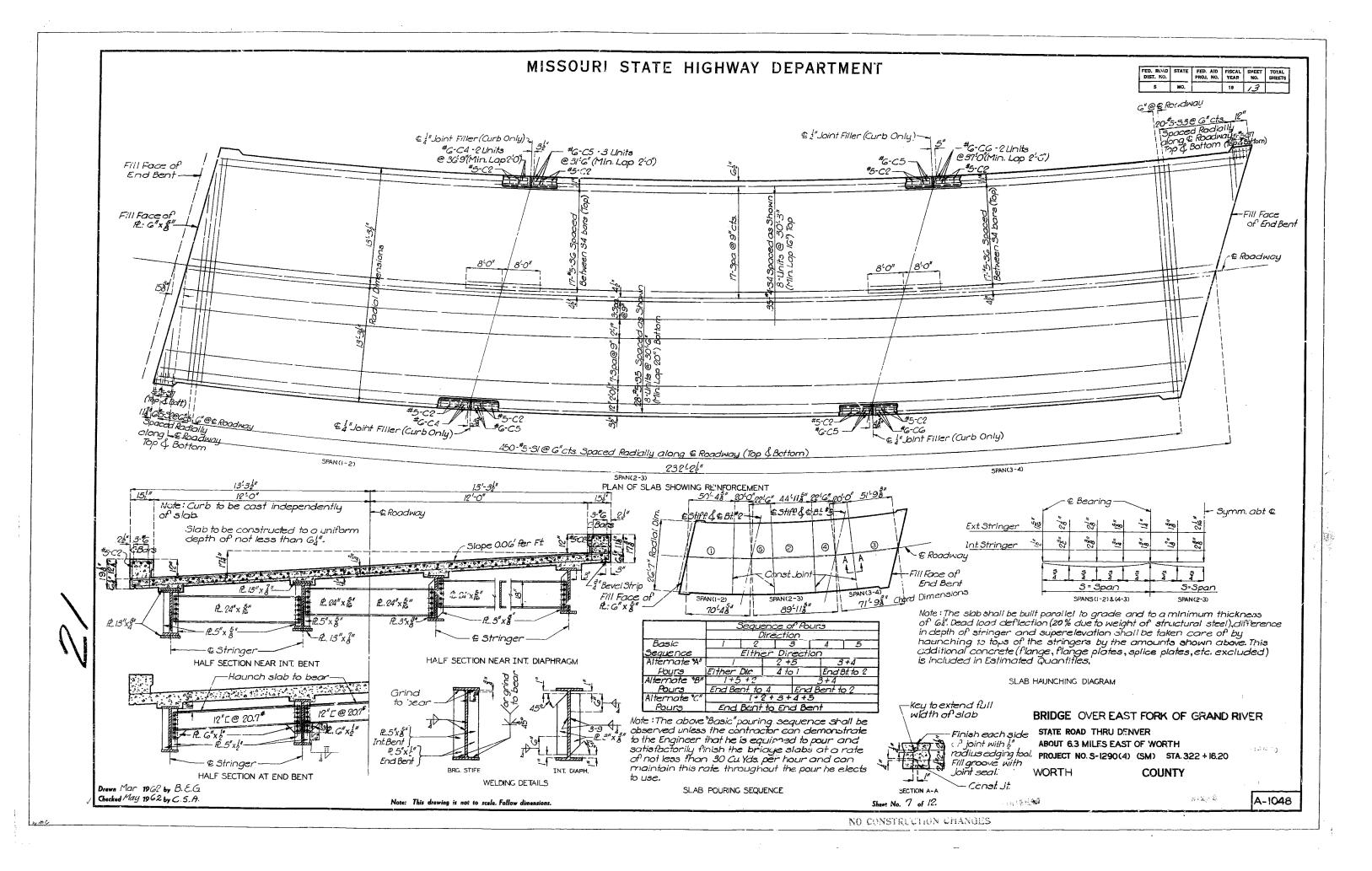


SEE EINAL PLA

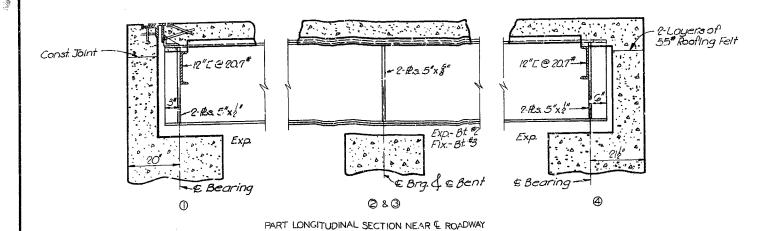
SEE FINAL PLANS BROWN-LINES.

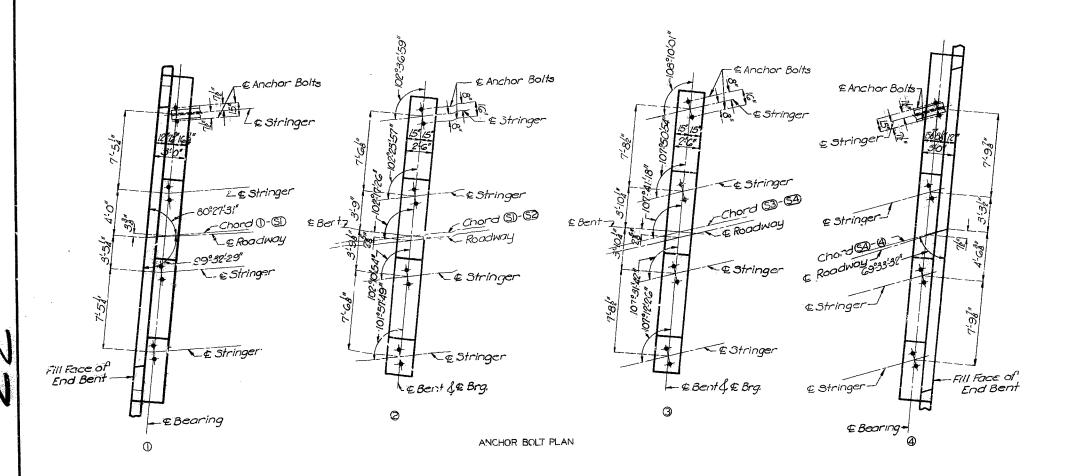




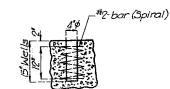


FED. ROAD	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
5	MO.		19	14	





Note: Anchor bolt spacings are shown for Type "D" bearings. If alternate Type "D" castings are used spacing must be modified accordingly.



Note: Anchor bolts may be set in wells as shown or in noles: drilled into concrete substructure. See Special Provisions for setting Anchor Bolts.

DETAIL OF SPIRAL AROUND ANCHOR BOLTS

BRIDGE OVER EAST FORK OF GRAND RIVER STATE ROAD THRU DENVER ABOUT 6.3 MILES EAST OF WORTH PROJECT NO. S-1290(4) (SM): STA. 322+16.20 COUNTY

**WORTH** 

1 3 0 FT

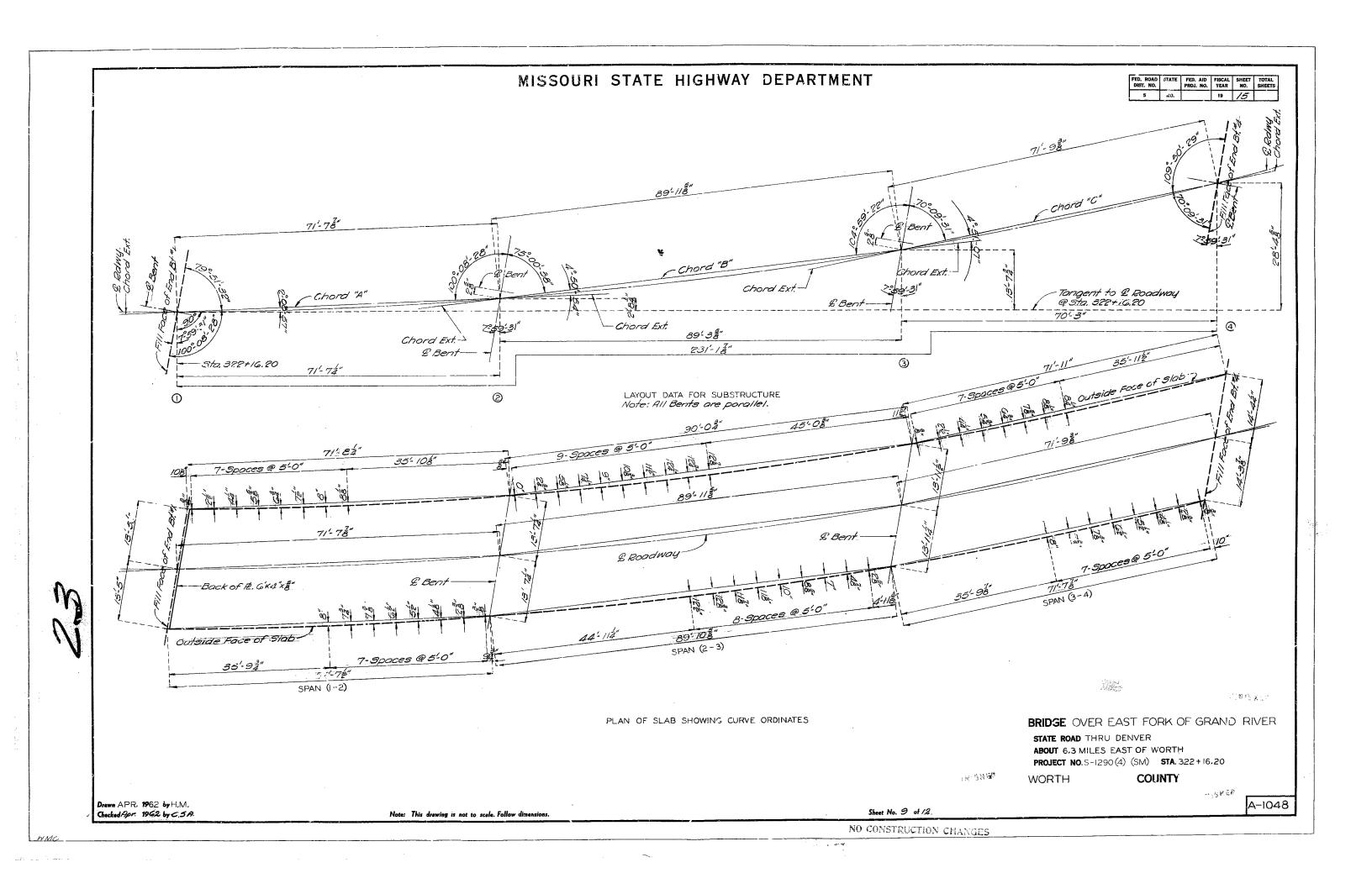
Drawn. Apr. 1962 by B.E.G. Checked Apr. 1962 by C., S. A.

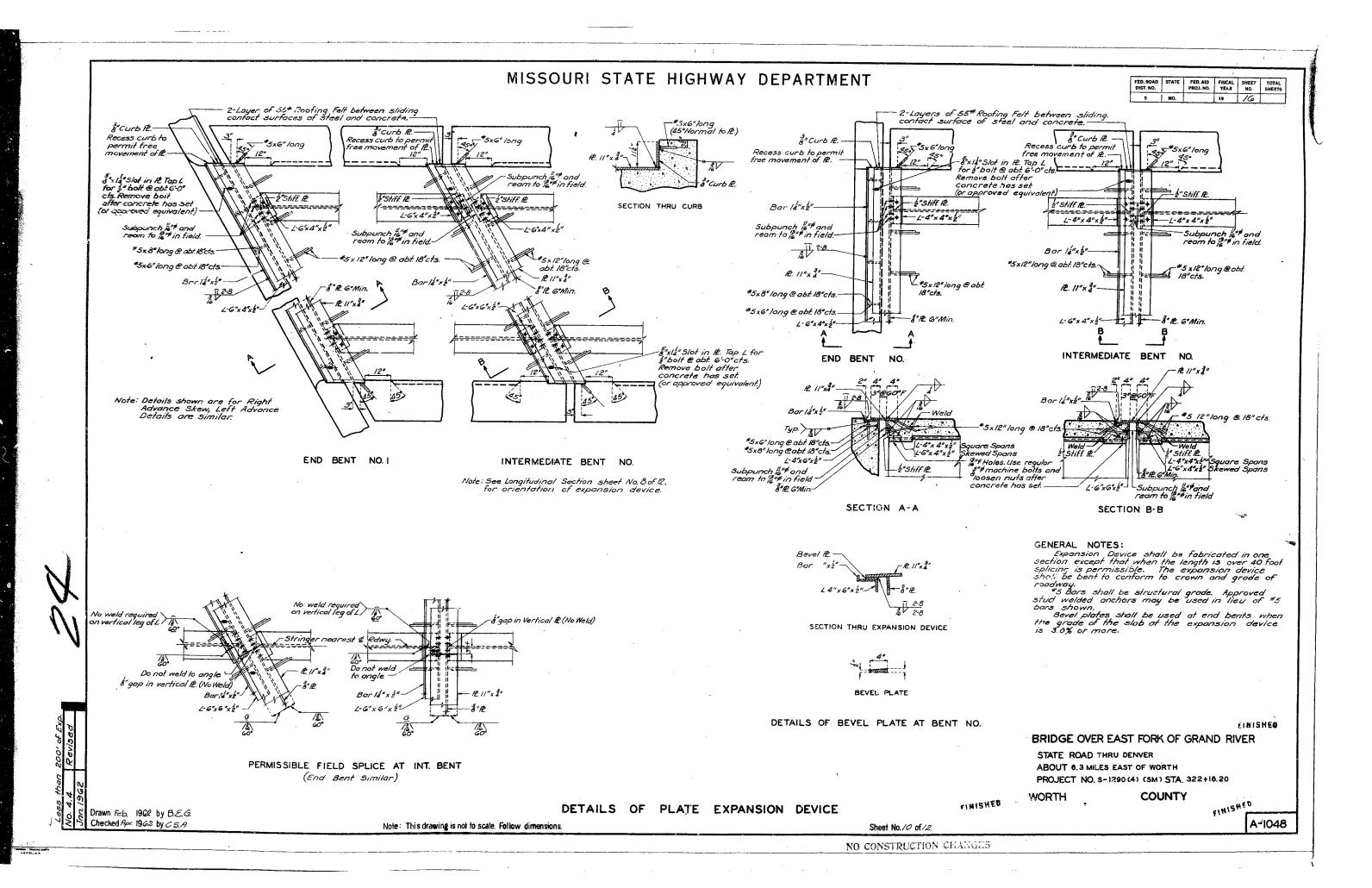
Note: This drawing is not to scale. Fellow dimensions.

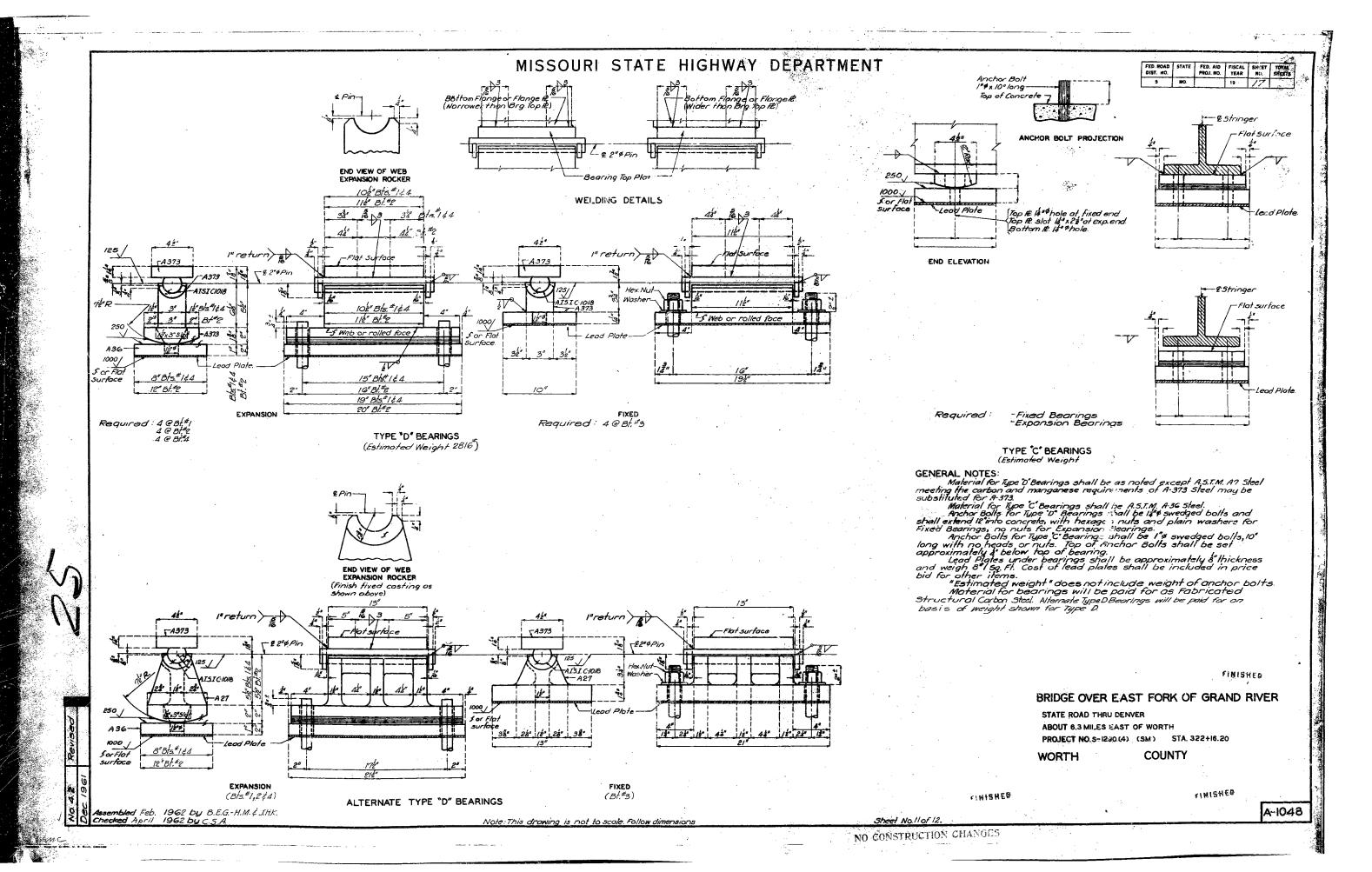
Sheet No. 8 of /2.

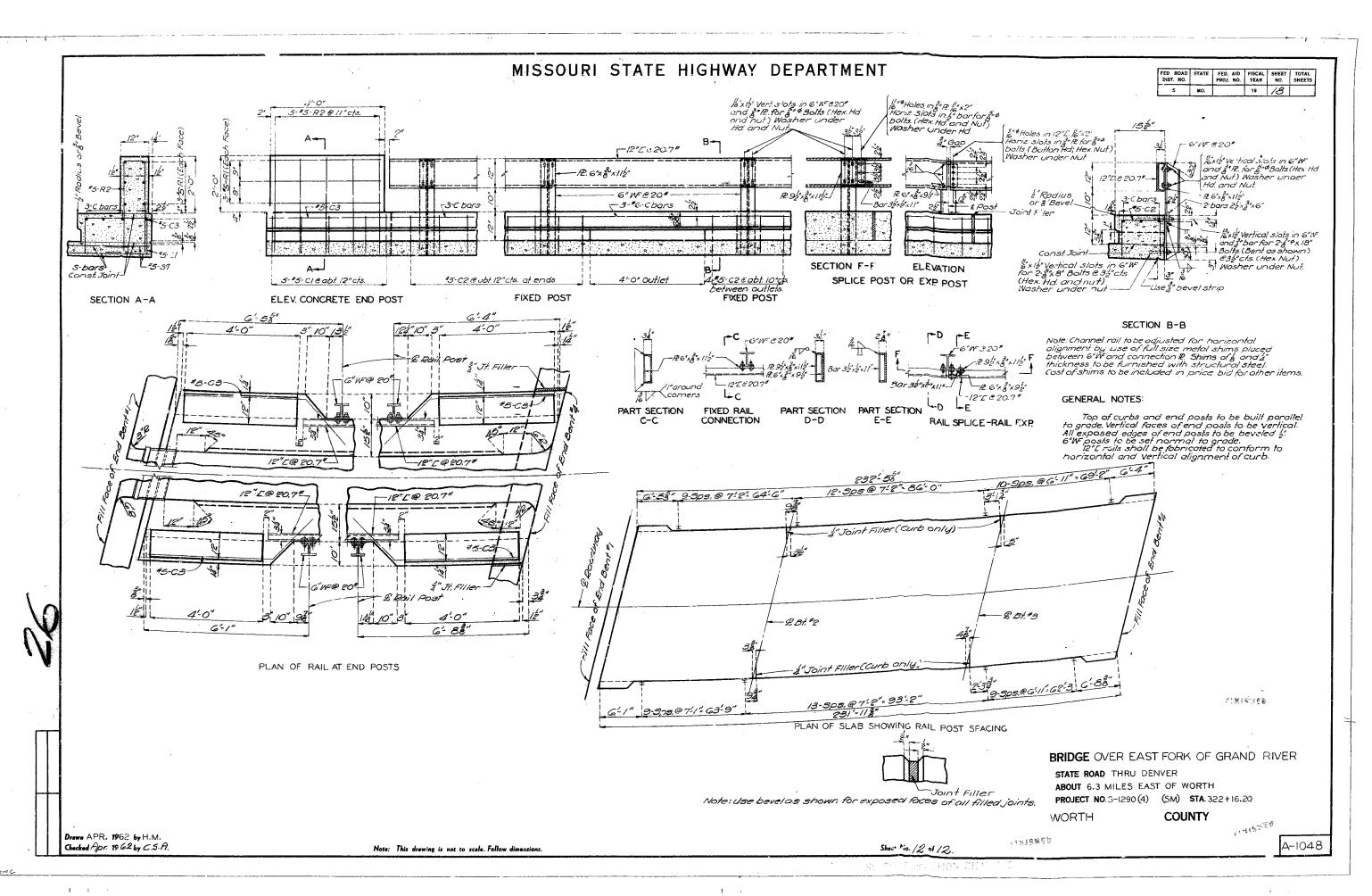
NO CONSTRUCTION THANGES

A-1048

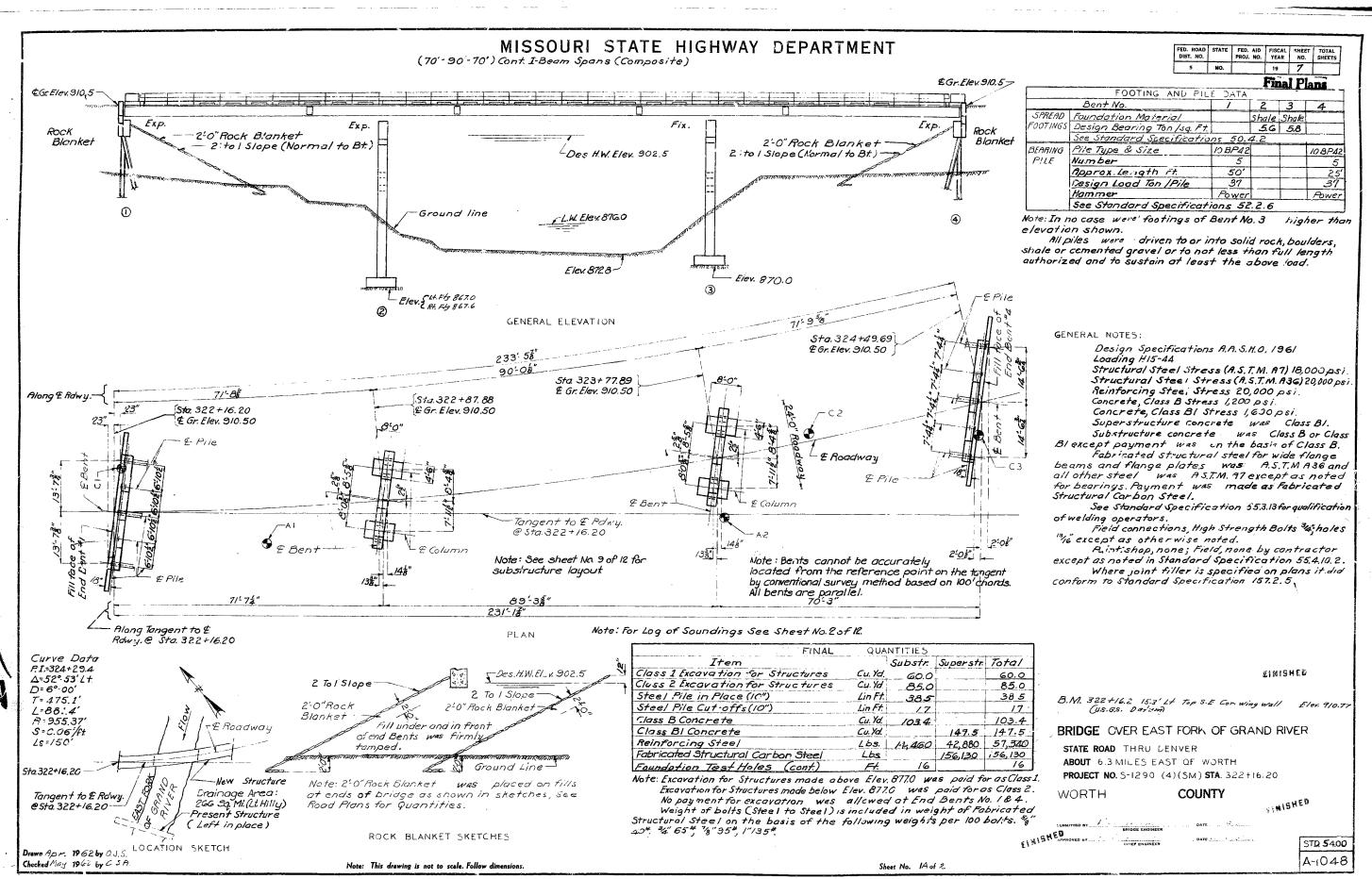


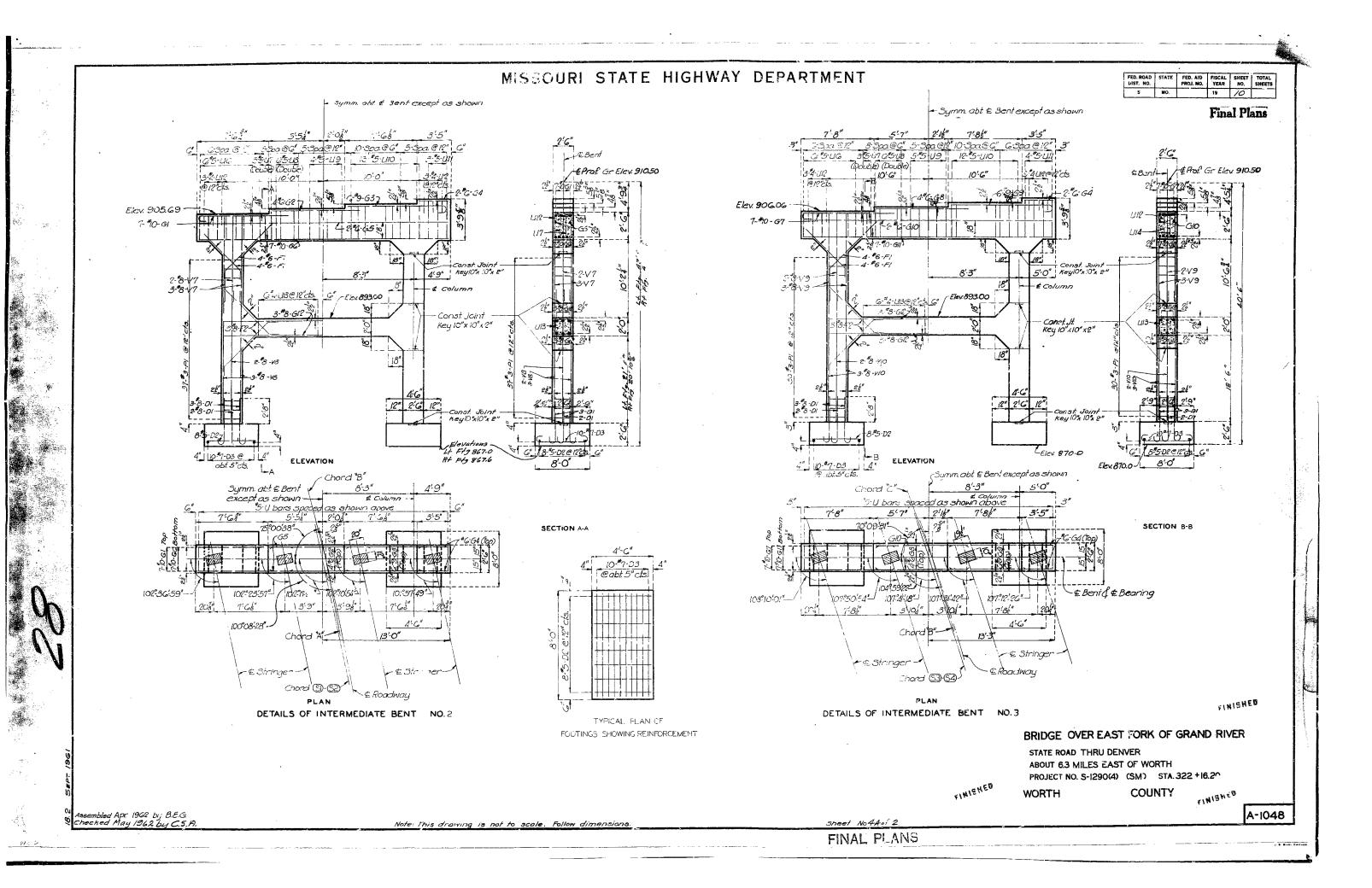




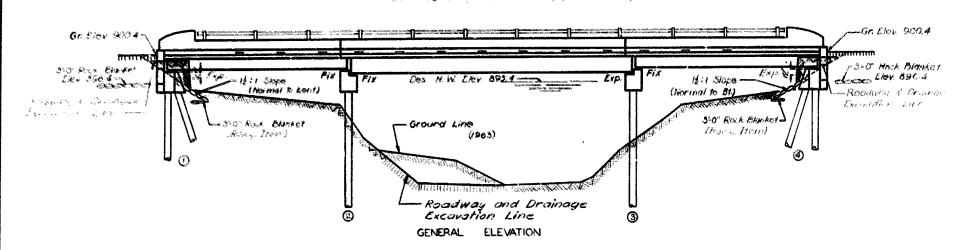


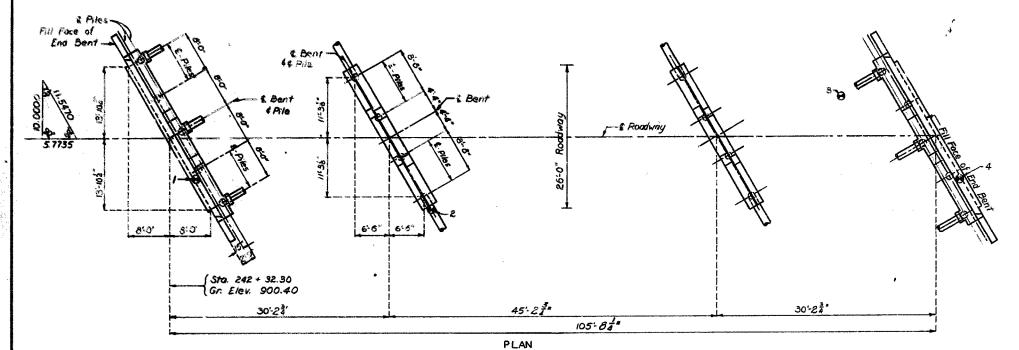
€. 6 ¥





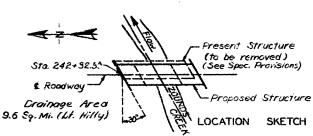
29 - 42 Composite 24 Surple it Beam Syean





Note: For Boring Data See Sheet No. 2 of 6.

"🏟 " Indicates location of boring.



ESTIMATED QUANTITIES					
IŢEM		SUBSTR.	SUPERSTR.	TOTAL	
Class I Excavation for Structures	Cu. Yos	30		30 .	
Cost-In Place Concrete Piles	LinFt	810		810	
Class B Convente	Cu, Yds	45.6		45.6	
Class Bl Concrete	Cu Yds		84.6	84.6	
Reinforcing Steel	Lbs.	4580	21680	26260	
Fobricated Structural Carbon Steel	Lbs.		38280	38£80	
Bridge Roil (Single tube type)	Lin.Ft		190	190	
				, ,	

STATE FEG. AID FISCAL SHEET TOTAL PROJ. NO. YEAR NO. SHEETS

#### GENERAL NOTES:

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

HIS - 44 15#/sq. ft. Future Wearing Surface Earth 120# Equivalent Fluid Pressure 30#

#### Design Unit Stresses:

Class B Concrete (substructure) fc = 1,200 psi Class Bl Concrete (superstructure) fc = 1,600 psi Reinforcing Steel fs = 20,000 psi Structural Steel (A.S.T.M. A36-63T) fs=20,000 psi

#### Surface Seal:

Superstructure deck to be surface sealed. Fabricated Steel

Field connections, High Strength Bolts 34"\$, holes 13/16"\$ except as noted.

PILE DATA						
BENT NO.	1	2	3	4		
Pile Type.	Trestle	Trestle	Trestle	Trestie		
Kind	CIP	CIP	ÇIP	CIP		
Number	5	4	4	5		
Approximate Length Ft	45 .	45	45	45		
Lesian Bearing Tons		30	50	50		
Min. Tip Penetration Elev.	865.0	860. D	860,0	265.0		
Pile Standard	52.02	52.02	52.02	52.02		
Hommer Energy Regid Ft. Lbs	8000	8000	8000	8000		

Mini, surn Energy Requirement of hommer based on plan length of piles.

All pile shoil be driven to the minimum penetrations and to not less than the design bearings noted.

B.M. Elev. 900.41 Don S. End of E. Br. Curh. 14' Lt. Sto. 243+26 (U.S.C. & G.S. Dotum)

BRIDGE OVER ZOUNDS CREEK

STATE ROAD FROM ROUTE O SOUTH TO ROUTE 136 ABOUT 7.2 MILES N. OF STANBERRY

PROJECT NO. S-416(6) SB

STA,242 + 32.3

**GENTRY** 

COUNTY



STD. 54.00 STD. 52.02 A-1874

Note: This drawing is not to scale. Follow dimension

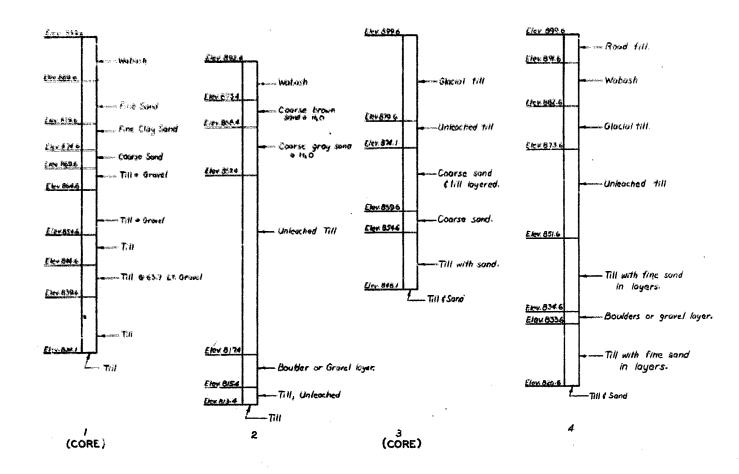
Sheet No. 1 of 6.

SEE CONTRACT ON MICHESES

DESIGNED CCT. 1965 BY CHERN DETAILED NOV. 1965 BY UNDERWOOD CHECKED FEB. 1946 BY LINDSEY

 $f = \{ 1, \dots, T_{n-1} \}$ 

FED. ROAD STATE FED. ALD FISCAL SHEET TOTAL DIST. NO. PROJ. NO. YEAR NO. SHEETS 19 29



BORING DATA

Note: See sheet No.1 of 0 for locations of borings.

COMPLETE BILL OF REINFORCING STEEL NO. SIZE LENGTH MARK LOCATION BENDING SKETCHES & NO. SIZE LENGTH MARK LOCATION CUTTING DIAGRAMS 26-9 2-3 30'-0" 31-\$2 Cut 62 29:0" 29-53 Cut 1/6 4 #5 7-0 R5 6 #5 743 R6 198 #5 5'-3" R7 8 #5 30'-0" R6 7-6" 6-9" 14-3" #5 23'-0" R9 #5 29'-0" RIO 4-US CUT IR (and Bend as Sho 236 #5 28'-6" SI Slab 62 \*5 50-0" S2 8'-0" 4-V2 Cut 8 6 #4 32-9" \$9 End Bents No. / \$4
16 #6 37'-0" H/ Beam
4 #6 34'-9" H2 " \*6 33'-0" H3 Bkwall RII34-5" HI Wing 28'- 2" H6 HI - H6 8 #6 8'-0" 72 14 \*4 3'-3" UZ 12 \*7 14'-3" U3 \*4 8'0" V2 Wing \*4 6'-0" V3 " 20å" MARK A B C R2 2'-|" 7|" 22" R3 2'-5| 7|" 2'-2|" R4 2'-8| 7|" 2'-5|" R5 2'-|0" 7| 2'-7" R6 2'-||3" 7| 2'-8| \*6 28'-9" H5 Beam \*6 30'-9" H6 " US 2'6#"U6 70 "4 2'9" U5 Beam 56 "4 10-6" U6 " 20 "4 3'-9" U7 " spot Weld #2 bars— 5-92" T/ 23" T2 122" 15 112-110-115-117

STATE ROAD FROM ROUTE O SOUTH TO ROUTE 136 ABOUT 7.2 MILES N. OF STANBERRY

**PROJECT NO.** 5-416(6)

SB **STA**. 242 + 32.3

**GENTRY** 

COUNTY

A-1874

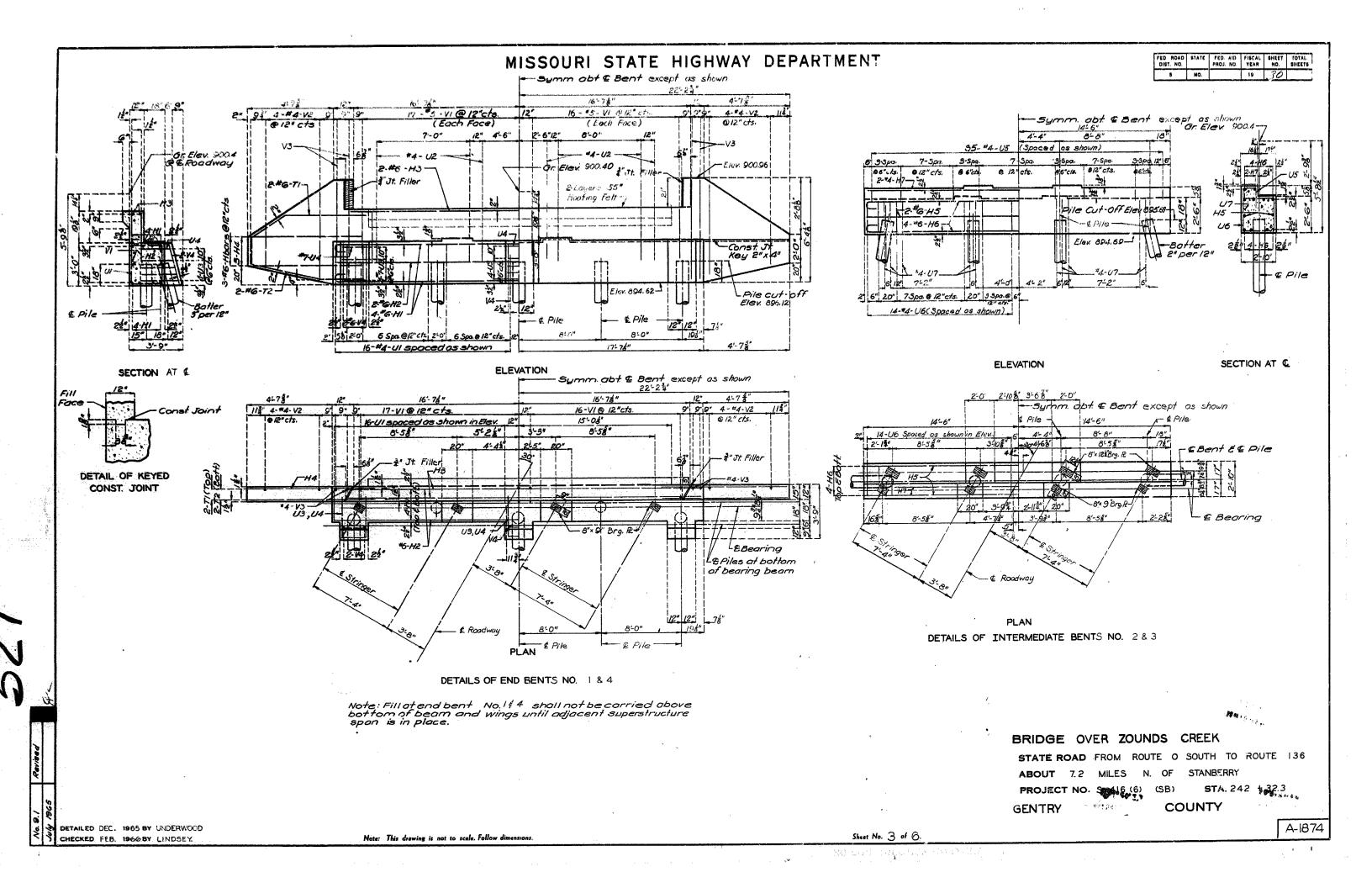
PERSONAL PROPERTY.

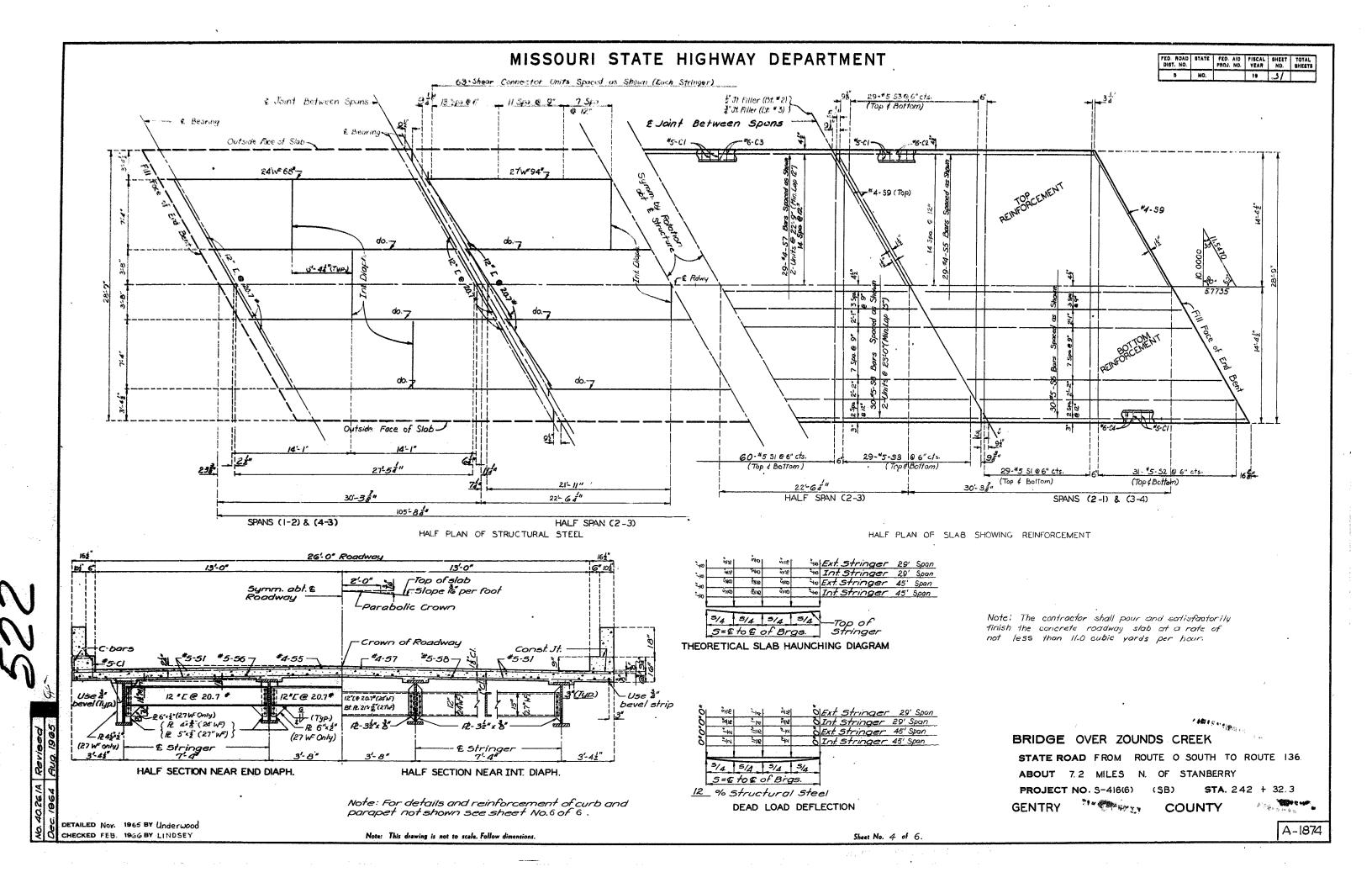
DETAILED Oct. 1965 BY Underwood CHECKED FEB. 1966 BY LINDSEY

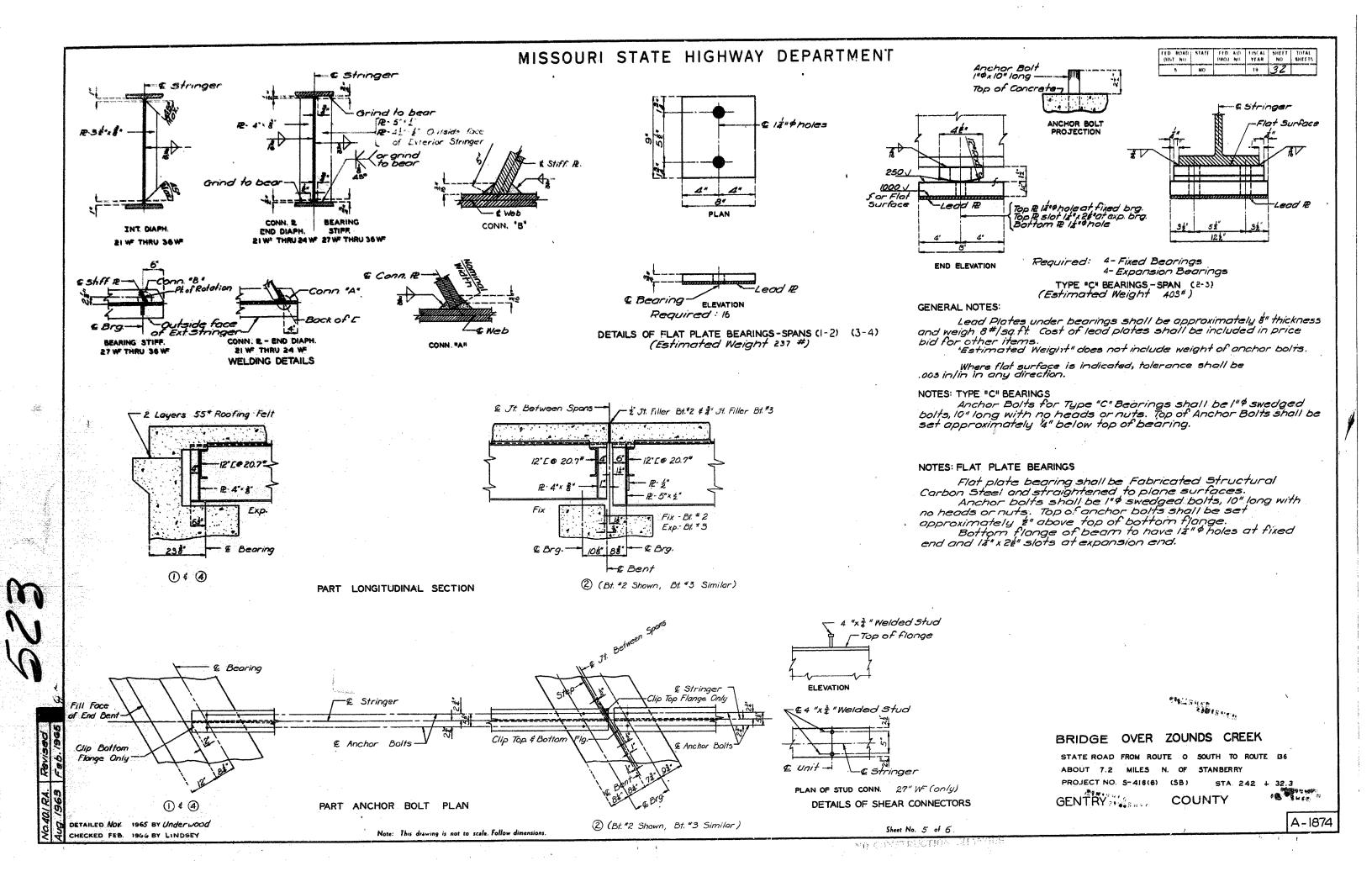
Sheet No. 2 of 6.

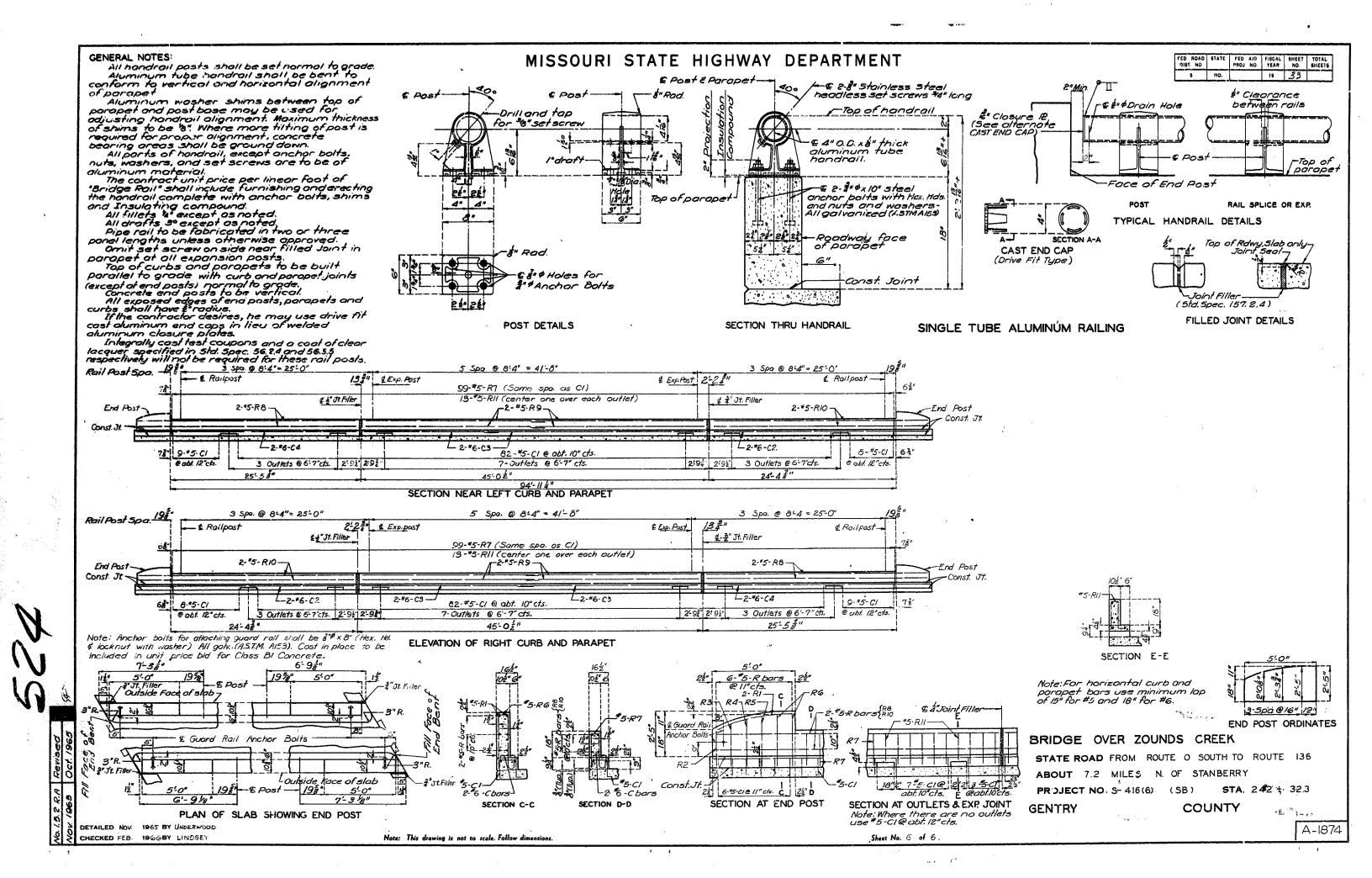
NO OTENSIBLICATION WELLS IN IN-

Note: This drawing is not to scale. Follow dis

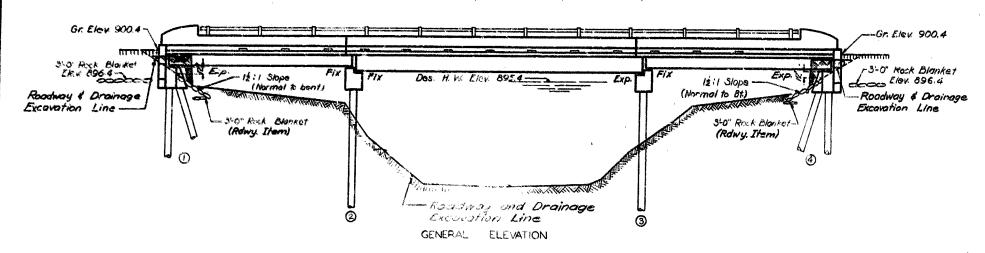


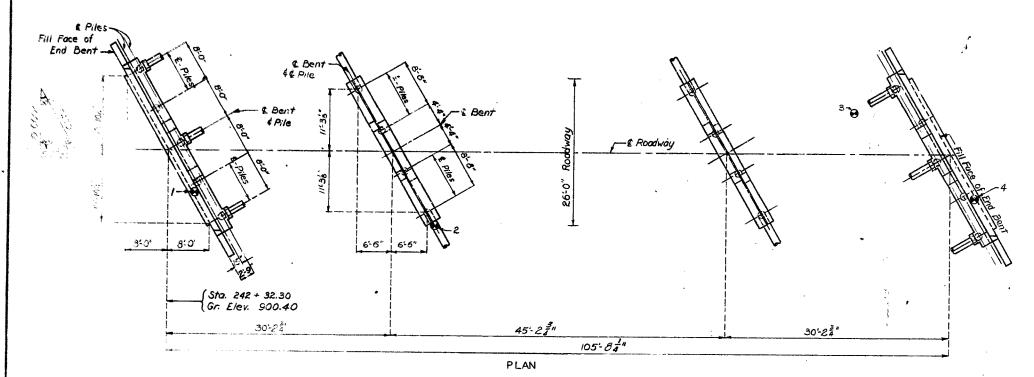






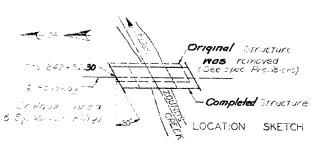
29 - 45 Composite 29' Simple W Beam Spans.





Note: For Boring Data see Sheet No. 2 of 6.

"e" Indicates location of boring.



FINAL QU	ANTITIES			
ITEM		SUBSTR.	SUPERSTR	YOTAL
Class I Excavation for Structures	Cu. Yds.	52.5		52.5
Cast-In-Place Concrate Piles	LID.Ft.	948		948
Class B Concrete	Cu. Yds.	45.6		45.6
Class BI Concrete	Cu. Yds.		84.6	84.6
Reinforcing Steel	Lbs.	4580	21680	26260
Fabricated Structural Carbon Steel	Lbs.		38840	38840
Bridge Rail (Single tube type)	Lin.Ft.		190	. 190

10 28

GENERAL NOTES:

FINAL PLANS Design Specifications: A.A.S.H.O. - 1961 Design Loading:

HIS - 44 15#/sq. ft. Future Wearing Surface Earth 120# Equivalent Fluid Pressure 30#

Design Unit Stresses:

Class B Concrete (substructure) fc = 1,200 psi Class Bi Concrete (superstructure) fc = 1,600 psi Reinforcing Steel fs = 20,000 psi Structural Steel (A.S.T.M. A36-63T) fs=20,000 psi

Surface Seal:

Superstructure deck was : surface sealed. Fabricated Steel

Field connections, High Strength Bolts 34\*4, holes 13/16\*4 except as noted.

PILE DATA						
BENT NO.		2	3	4		
Pila Type	Trestle	Trestle.	Trestle	Trestle		
Kind	CIP	CIP	CIP	CIP		
Number	5	4	4	5		
Furnished Length Avg. Ft.	59	<i>5</i> 3	5/	47		
Design Bearing Tons	30	30	30	30		
Min. Tip Penetration Elev.	865.0	860.0	850.0	865.0		
Pile Standard	52.02	52,02		52.02		
Hammer Energy Reg'd. Ft. Lbs.	8000	8000	8000	8000		

Minimum Energy Requirement of hammer based on plan length of piles.

All pile were driven to the minimum penetrations and to not less than the design bearings noted.

B. M. Elev. 900.96 51a. 242+35 - 17'R1 I in top of wing, north abut.

BRIDGE OVER ZOUNDS CREEK STATE ROAD FROM ROUTE O SOUTH TO ROUTE 136

ABOUT 7.2 MILES N. OF STANBERRY

PROJECT NO. S-416(6) SB

STA.242 + 32.3

GENTRY WHISKED

DATE 11/16/66

DATE 11/16/66

COUNTY WHEN

STD. 54.00 STD. 52.02

Sheet No. 1A of / FINAL PLANS

DESIGNED The 1971 BY CHERT DETAILED YOU 1965 BY CALEAUTOCL CHECKED FEB 1936 BY LPNDSEY

Note: This drawing is not to scale. Follow dimension

A-1874