MoDOT

Missouri Department of Transportation State Bridge Inspection Report

December 19, 2022 12:38:47PM

COUNTY: CRAWFORD DISTRICT: CD CLASS: STATBR FED-ID: 981 BRIDGE: A1191

GENERAL STRUCTURE INFORMATION ***BRIDGE INSPECTION INFORMATION*** **ROUTE: MO19S** # **SPANS**: 4 PLACE CODE: 17668 CUBA CITY **DATE:** 05/11/2022 **RESPONSIBILITY: DISTRICT FEATURE: IS 44** LANES ON: 6 LENGTH: 195 FT 0 IN FREQUENCY: 24 **CALCULATED INTERVAL**: 20 LANES UNDER: 4** STATUS: A-OPEN MAXIMUM SPAN: 56 FT 0 IN **TEAM LEADER: MICHAEL MEYERHOFF ELEMENT: NO LOG MILE:** 122.874 **COMPASS DIRECTION: NORTH to SOUTH** APPROACH ROADWAY: 90 FT 0 IN **INSPECTOR 2:** JOE GREEN **INSPECTOR 4: DETOUR: 12.00 MILES DIRECTION OF TRAFFIC: 2-WAY TRAF CURB TO CURB:** 90 FT 0 IN **INSPECTOR 3: OUT TO OUT:** 92 FT 8 IN NHS: NO **FUNCTIONAL CLASS: RL-MINOR ARTERIAL** ** When calculated interval exceeds the frequency, a justification comment per BIRM is required. **BUILT:** 1966 **NBI OWNER: MODOT AADT:** 10290 **GENERAL INSPECTION COMMENTS REHAB:** 1999 **NBI MAINTAINED: MODOT AADT YEAR: 2021** (RAITHK, 11/09/2020)--SPANS MAY HAVE SOME SAGGING 2020 MAINTENANCE DISTRICT: CD LOCATION: S 30 T 39 R 4 W **AADT TRUCK:** 10.2% **LATITUDE:** 38 4 22.90 (DMS) **MAINTENANCE COUNTY: CRAWFORD FUTURE AADT: 15435 LONGITUDE:** 91 24 22.45 (DMS) SUB AREA: 7D17 **FUTURE AADT YEAR: 2041** ***FRACTURE CRITICAL INSPECTION INFORMATION*** ***INDEPTH 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: CATEGORY:** DATE: **DATE: RESPONSIBILITY: RESPONSIBILITY:** FREOUENCY: **CALCULATED INTERVAL**: NBI**: FREOUENCY: 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. 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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			***STRIJ	CTURE POSTING*	**		
APPROVED CATEGORY: S-1	NO POSTING REQUIRED		SINC				
Ton 1: COMMENTS:	Ton 2:		Ton 3:				
FIELD CATEGORY: S-1 Ton 1: COMMENTS:	NO POSTING REQUIRED Ton 2:		Ton 3:	PROBLEM:		PROBLEM DIRECTION:	
		ķ	***GENERAL COMM	IENTS/MAJOR RAT	TED ITEMS***		
GENERAL COMMENTS: (BOWDEJ1, 08	/28/2008)(41'-56'-56'-41') CONT VOIDEI	D CONC SLAB SI	PANS (WIDENED BOTH	SIDES IN 99)			
-	5-FAIR CONDITION 11/09/2020	COMMENT	TS: (TRAMPA, 10/27/2016)- (RAITHK, 11/09/2020)	CRACKING, LEACHIN -EXTENSIVE MAP CRKI		LED PATCHES	
	5-FAIR CONDITION 11/09/2020	COMMENT	S: (TRAMPA, 10/27/2016)	MODERATE DETERIO	RATION AT BOTH LO	ONGITUDINAL JOINTS - SPALLING	
-	6-SATISFACTORY CONDITION 05/18/2001	COMMENT	TS: (TRAMPA, 10/27/2016)-	CRACKING, LEACHIN	G ON THE NORTH O	LD ABUTMENT; MINOR SPALL;	
	N-NOT APPLIC NO WATRWAY 05/18/2001	COMMENT	S:				
	N-NOT APPLIC NOT WATERW 05/18/2001	COMMENT	TS:				
[ITEM 71] WATERWAY ADEQUACY: RATING:	NOT APPLICABLE 05/18/2001	COMMENT	rs:				
[ITEM 72] APPRRDWY ALIGNMENT: RATING :	8-VERYGOOD 05/18/2001	COMMENT	TS:				
		RAILING	G AND APPROACH PA	AVEMENT COMPO	NENTS AND RAT	TINGS	
[ITEM 36A] BRIDGE RAILING RAI	TING: MEETS CURRENT STANDARDS-1		RATING: 05/18/2001	COMMENTS:			
<u>MATERIAL</u> REINFORCED CONCRETE <u>CONDITIO</u>	<u>CONSTRUCTION</u> SAFETY BARRIER CURB <u>N</u> <u>LOCATION</u>	DIRECTION BOTH	<u>COMMENTS</u> LOCATION 2	<u>SEVERITY</u>	COMMENT		
VERTICAL CR				FEW	COMMINICAL		
[ITEM 36B] TRANSITION RAILING RAI	TING: MEETS CURRENT STANDARDS-1		RATING: 05/18/2001	COMMENTS:			
<u>MATERIAL</u> GALVANIZED STEEL	<u>CONSTRUCTION</u> THRIE BEAM TO W-BEAM	<u>DIRECTION</u> ALL	<u>COMMENTS</u>				
[ITEM 36C] APPROACH RAILING RAI	TING: MEETS CURRENT STANDARDS-1		RATING : 05/18/2001	COMMENTS:			
<u>MATERIAL</u> GALVANIZED STEEL	<u>CONSTRUCTION</u> W-BEAM	<u>DIRECTION</u> ALL	<u>COMMENTS</u>				
ITEM 36DJ RAIL END TREATMENT RAI	TING: MEETS CURRENT STANDARDS-1		RATING : 05/18/2001	COMMENTS:			
$sign_No = a1191$				Page 2			

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COUNTY: CRAWFORD DISTRICT: CD CLASS: STATBR

MATERIAL CONSTRUCTION DIRECTION COMMENTS

GALVANIZED STEEL BREKAWAY SYSTEM ALL

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

MATERIALCONSTRUCTIONDIRECTIONCONDITION*COMMENTSREINFORCED CONCRETESLABBOTHGOOD

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

DECK PROTECTIVE COMPONENTS:

SERIES TYPE-#COMPONENTMATERIALCONSTRUCTIONTHICKNESSYEAR APPLIEDMANUFACTUREOVERALL CONDITIONMAIN SERIES-1WEARING SURFACEPLAIN CONCRETELOW SLUMP2.2 INFAIR

COMMENT:

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

MAP CRACKS THROUGHOUT MANY

PATCHES THROUGHOUT LARGE (STEGEC, 01/31/2017)--DELAMINATED AREAS WERE PATCHED WITH QUICKCRETE LATEX MODIFIED HIGH EARLY STRENGTH CONCRETE IN 2014. ONE SMALL SPALL AND A FEW CRACKS IN 2016

FED-ID: 981

SPALLS RANDOM MODERATE

DECK PROTECTION LIQUID SEALANT INTERNALLY SEALED 2016 STAR MACRO

COMMENT:

MEMBRANE NOTAPPLICABLE NONE

COMMENT:

DRAINAGE COMPONENTS:

<u>COMPONENT</u> <u>MATERIAL</u> <u>CONSTRUCTION</u> <u>DIRECTION</u> <u>COMMENTS</u>

EXPANSION DEVICE COMPONENTS:

<u>SUB UNIT-#</u> <u>SUB LABEL</u> <u>COMPONENT</u> <u>MATERIAL</u> <u>CONSTRUCTION</u> <u>GAP</u> <u>YEAR APPLIED</u> <u>MANUFACTURE</u> <u>OVERALL CONDITION</u>

COMMENT:

BANK/SLOPE PROTECTION COMPONENTS:

COMPONENTMATERIALCONSTRUCTIONDIRECTIONCOMMENTSBANK PROTECTIONPLAIN CONCRETEPAVEDSLOPEBOTH

DECK COMPONENTS

<u>SPAN TYPE-#</u> <u>COMPONENT</u> <u>MATERIAL</u> <u>CONSTRUCTION</u> <u>COMMENTS</u>

MAIN SPANS-1 DECK REINFORCED CONCRETE CAST-IN-PLACE

CONDITION LOCATION 1 LOCATION 2 SEVERITY MEASUREMENT COMMENT

CONDITIONLOCATION 1LOCATION 2SEVERITYMEASUREMENTCOMMENTDELAMINATIONDRIVING SURFACEHEAVY

MAP CRACKS THROUGHOUT MANY
PATCHES AT JOINTS MANY (RAITHK, 11/09/2020)--FAILING

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>

Design_No = a1191

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COUNTY: CRAWFORD DISTRICT: CD CLASS: STATBR FED-ID: 981 BRIDGE: A1191 THROUGHOUT MODERATE DELAMINATION SEVERE MAP CRACKS THROUGHOUT **PATCHES** THROUGHOUT MANY **FEW SPALLS** DRIVING SURFACE MAIN SPANS-3 DECK REINFORCED CONCRETE CAST-IN-PLACE **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY MEASUREMENT COMMENT DELAMINATION** DRIVING SURFACE MODERATE **PATCHES** THROUGHOUT MANY **SPALLS** DRIVING SURFACE **FEW** MAIN SPANS-4 DECKREINFORCED CONCRETE CAST-IN-PLACE **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY MEASUREMENT COMMENT DELAMINATION** DRIVING SURFACE **MODERATE** MAP CRACKS THROUGHOUT **FEW PATCHES** THROUGHOUT MANY ***SUPERSTRUCTURE COMPONENTS*** SERIES TYPE-# SPAN TYPE MATERIAL CONSTRUCTION LABEL **COMMENTS** MAIN SERIES-1 CONTINUOUS SPAN REINFORCED CONCRETE VOIDED SLAB **COMPOSITE INDICATOR LENGTH WEATHERING STEEL COMMENTS SPAN** MAIN SPANS-1 NON-COMPOSITE 41 FT 3 IN **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY MEASUREMENT COMMENT DETERIORATION** AT JOINTS **MODERATE** DETERIORATION **EDGE** MINOR MAIN SPANS-2 NON-COMPOSITE 56 FT 0 IN NO **CONDITION** LOCATION 1 LOCATION 2 SEVERITY **MEASUREMENT COMMENT DETERIORATION** AT JOINTS **MODERATE** DETERIORATION **EDGE** MINOR **EDGE OTHER** NOT APPLICABLE (RAITHK, 11/09/2020)--MINOR COLL DAMAGE MAIN SPANS-3 NON-COMPOSITE 56 FT 0 IN NO **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY MEASUREMENT COMMENT DETERIORATION** AT INTERMEDIATE BENT MINOR **DETERIORATION** AT JOINTS **MODERATE DETERIORATION EDGE** MINOR LEACHING **BOTTOM MODERATE** (MADSEJ, 09/09/2014)--WATER LEACHING THROUGH A FEW VOID DRAIN HOLES. MAP CRACKS **THROUGHOUT MEDIUM** OTHER **EDGE NOT APPLICABLE** (RAITHK, 11/09/2020)--MINOR COLL DAMAGE MAIN SPANS-4 NON-COMPOSITE 41 FT 3 IN NO **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY MEASUREMENT COMMENT DETERIORATION** AT JOINTS **MODERATE** MINOR **DETERIORATION EDGE** DIAGONAL CRACKS AT JOINTS **FEW** LEACHING **BOTTOM MINOR** (MADSEJ, 09/09/2014)--WATER LEACHING THROUGH A FEW VOID DRAIN HOLES.

SUBSTRUCTURE COMPONENTS

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	TITE CICIOTOR	DISTRICT: CD	CERSS. STRIBK	1120-10		DRIDGE, MIDI
SUBSTRUCTURE	<u>SKEW</u>	<u>LENGTH</u> <u>MATERIAL</u>	CONSTRUCTION	LABEL COMMENTS	7	
					=	
<i>ABUTMENT-1</i>		34 FT 9 IN REINFORCED CONCRETE	<i>NON-INTEGRAL</i>			
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT
ASSOCIAT	ED COMPONENT	MATERIAL	<u>CONSTRUCTION</u>	·		
·		<u> </u>	· · · · · · · · · · · · · · · · · · ·			
BEAM CAI	•	REINFORCED CONCRETE	CAST-IN-PLACE			
	CONDITION	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	MEASUREMENT	COMMENT
	<u></u>		<u> </u>	· · · · · · · · · · · · · · · · · · ·	THE THE TENTE I VI	COMMAE: 17
	DETERIORATION	AT CONST JT		MODERATE		
	LEACHING	RANDOM		MODERATE		
	VERTICAL CRACKS			FEW		
	VERTICAL CRACKS			LE M		
PILING		STEEL	H-SHAPE			
	CONDITION	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	MEASUREMENT	COMMENT
			· · · · · · · · · · · · · · · · · · ·	<u>SETERITI</u>	MENSCREMENT	COMMENT
STRAIGHT	WINGS	REINFORCED CONCRETE	CAST-IN-PLACE			
	CONDITION	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	MEASUREMENT	COMMENT
	·	· · · · · · · · · · · · · · · · · · ·	EOCHIIO V 2		MENSCREMENT	COMMENT
	DETERIORATION	RANDOM		MINOR		
BENT-2		REINFORCED CONCRETE	MULTIPLE COLUMN			
	CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
			·	<u>SEVERIII</u>	MEASUREMENT	COMMENT
ASSOCIAT	ED COMPONENT	<u>MATERIAL</u>	CONSTRUCTION			
COLUMN		REINFORCED CONCRETE	INTEGRAL CAST-IN-PL	ACE		
COLUMN						
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT
	HORIZONTAL CRACE	KS TOP		FEW		
70 0 mp 10	HORIZONTAL CRACI			L F AA		
FOOTING		REINFORCED CONCRETE	H-PILE			
	CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
	001/211101/	200.1110111	20 01110112	<u> </u>		
DENT 2		DEINICADAED CONCRETE	MUTIDLE COLUMN			
BENT-3		REINFORCED CONCRETE	MULTIPLE COLUMN			
	<i>CONDITION</i>	LOCATION 1	LOCATION 2	SEVERITY	<i>MEASUREMENT</i>	COMMENT
ACCOCIAT			CONSTRUCTION	·		
	ED COMPONENT	<u>MATERIAL</u>				
COLUMN		REINFORCED CONCRETE	INTEGRAL CAST-IN-PL	ACE		
	CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
			LOCATION 2		MEASUREMENT	COMMENT
	HIGH STEEL SPALL	S BOTTOM		FEW		
	HORIZONTAL CRACE	KS TOP		FEW		
	VERTICAL CRACKS	S RANDOM		FEW		
FOOTING		REINFORCED CONCRETE	SPREAD			
	CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUDEMENT	COMMENT
	CONDITION	<u>LUCATION I</u>	LUCATION 2	<u>SEVERIII</u>	<u>MEASUREMENT</u>	COMMENT
BENT-4		REINFORCED CONCRETE	MULTIPLE COLUMN			
	<u>CONDITION</u>	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT
/ ~ ~ ~ ~ · =		· · · · · · · · · · · · · · · · · · ·	<u> </u>	SL, LIGIT		COMMENT
<u>ASSOCIAT</u>	<u>ED COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>			
COLUMN		REINFORCED CONCRETE	INTEGRAL CAST-IN-PL	ACE		
COLOMIN	COMPITION				MEACHDEMENE	COMMENT
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	HORIZONTAL CRACE	KS TOP		FEW		
ECOTING		REINFORCED CONCRETE	при в	22,,		
FOOTING			H-PILE			
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT
ABUTMENT-5		34 FT 9 IN REINFORCED CONCRETE	NON-INTEGRAL			
ADOIMENI-J	gal			ABT	160 (60)	COLUMNIT
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
A.S.SOCIAT.	ED COMPONENT	MATERIAL	CONSTRUCTION		-	
·						
BEAM CAI	•	REINFORCED CONCRETE	CAST-IN-PLACE			
	CONDITION	<u>LOCATION 1</u>	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
	DETERIORATION	AT CONST JT		MINOR		
	LEACHING	RANDOM		LIGHT		
		· - · -				

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PILING

RANDOM STEEL

FEW

MODOT

H-SHAPE

STRAIGHT WINGS

REINFORCED CONCRETE

SEVERITY MEASUREMENT COMMENT

CAST-IN-PLACE

LOCATION 2

CONDITION

VERTICAL CRACKS

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

LOCATION 1

COMMENT

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

RECORD# **ROUTE** IS 44 E

> **ROUTE** IS 44 W

LANES

DIRECTION OF TRAFFIC 1-WAY TRAF

DIRECTION OF TRAFFIC

1-WAY TRAF

RIGHT LATERAL CLEARANCE 10 FT 7 IN

LEFT LATERAL CLEARANCE 18 FT 7 IN

UR-ID 2305

VERTICAL CLEARANCE TYPE** ACTUAL

RECORD#

VALUE 16 FT 4 IN

2

LANES

DIRECTION

DATE

DATE

COMMENT

RIGHT LATERAL CLEARANCE LEFT LATERAL CLEARANCE 10 FT 7 IN 18 FT 7 IN

UR-ID

2306

VERTICAL CLEARANCE TYPE ACTUAL**

VALUE 16 FT 1 IN

DIRECTION

DATE 11/30/2011 **COMMENT**

STRUCTURE PAINT INFORMATION

STEEL TONS:

CONDITION: RUST AMOUNT:

ORIGINAL PAINT

CONTRACT REPAINT

DEPARTMENT REPAINT

PAINT TYPE: NAME: **PAINT TYPE:** NAME: **PAINT TYPE:** NAME: **MANUFACTURE: SURFACE PREP:**

PAINT COLOR: PAINT YEAR:

MILS:

PAINT COLOR: PAINT YEAR: MILS: **PAINT COLOR: PAINT YEAR:**

MILS:

REQUESTED WORK ITEMS

GENERAL WORK COMMENTS:

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RESPONSIBILITY

LOCATION

ITEM

CATEGORY

PRIORITY

DATE

WORK ITEM COMMENT

UTILITY ATTACHMENTS

UTILITY OTHER

OWNER

METHOD STRAP

MEASUREMENT TYPE DIAMETER

VALUE 1 IN

NUMBER

UTILITY ATTACHMENT COMMENT

PROGRAM NOTES INFORMATION

YEAR PROJECT# MONTH LET

YEAR LET ITEMS

COMMENT

COMPUTER GENERATED RATINGS AND DEFICIENCY ITEMS				***ADVANCED SIGN INFORMATION***					
NOTE: The items listed in this section are	updated whenever computer edits are ran on a struct	ure 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	12/2/2020							
[Item 68] Deck Geometry Rating:	7-BETTER THAN PRESENT MIN	3/25/2002							
[Item 69] Underclearance:	4-MEETS MINIMUM TOLERABLE	1/26/2022							
Sufficiency Rating:	74.1%	2/22/2022							
Deficiency:	NOT DEFICIENT	5/18/2001							
Funding Eligibility:			***OUTFALL INSPECTION INFORMATION***						
Estimated New Structure Length:					222				
Estimated Structure Cost:			# OUTFALLS:	IN	SPECTOR:				
Estimated Total Project Cost:			STATUS:		DATE:				
Year of Cost Estimate:			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.									



Missouri Department of Transportation State Bridge Inspection Report CLASS: STATBR

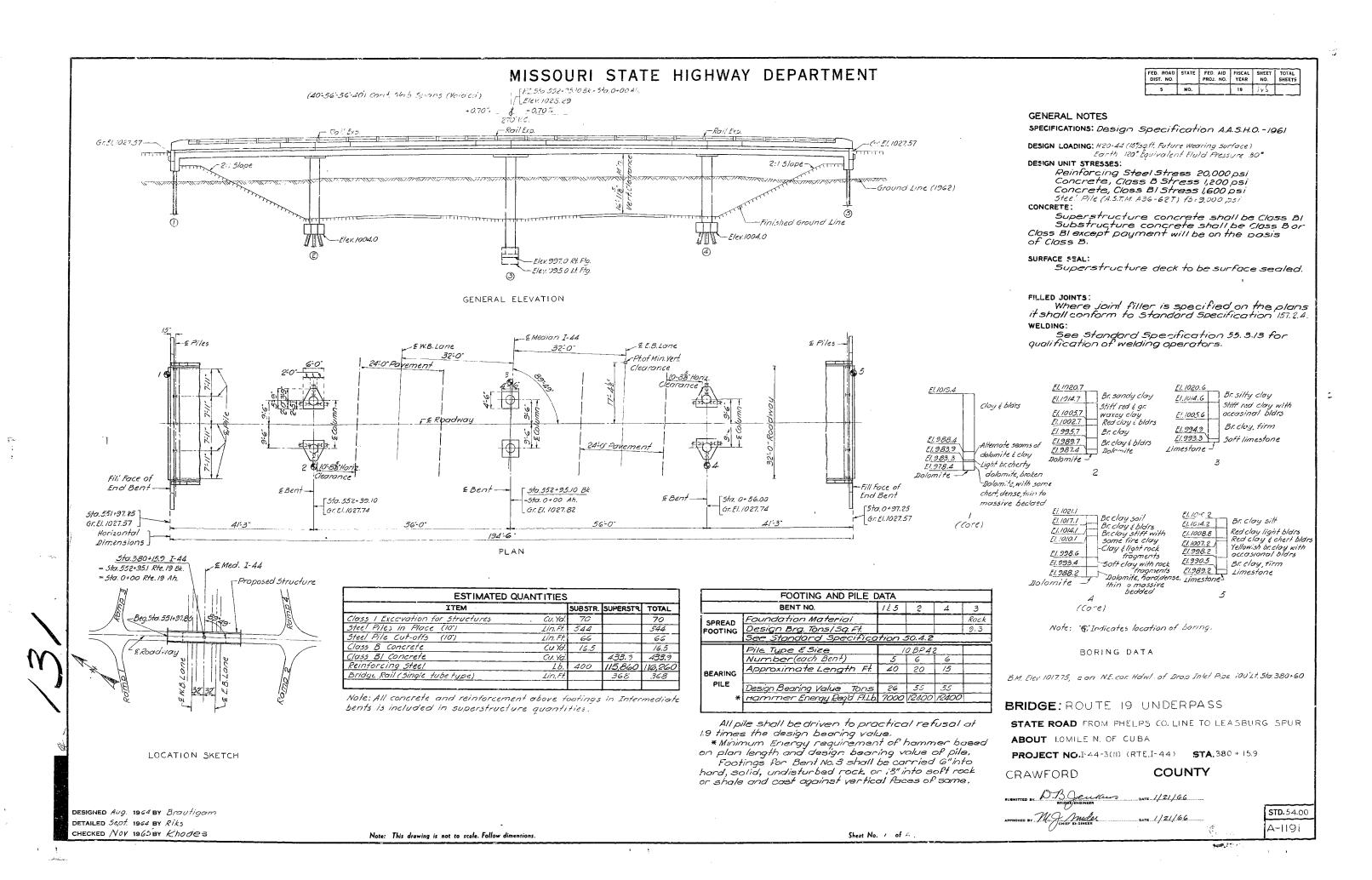
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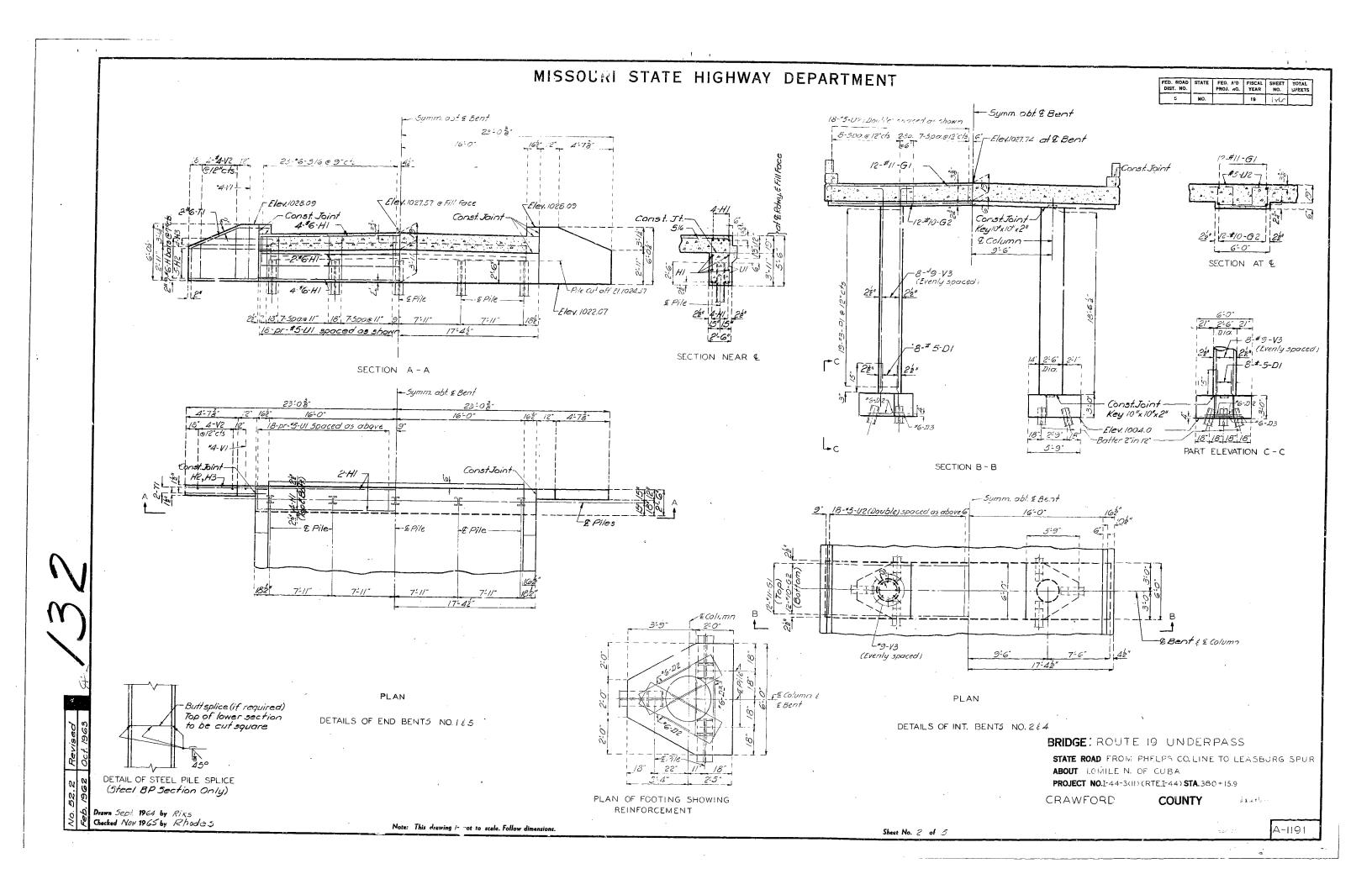
COUNTY: CRAWFORD

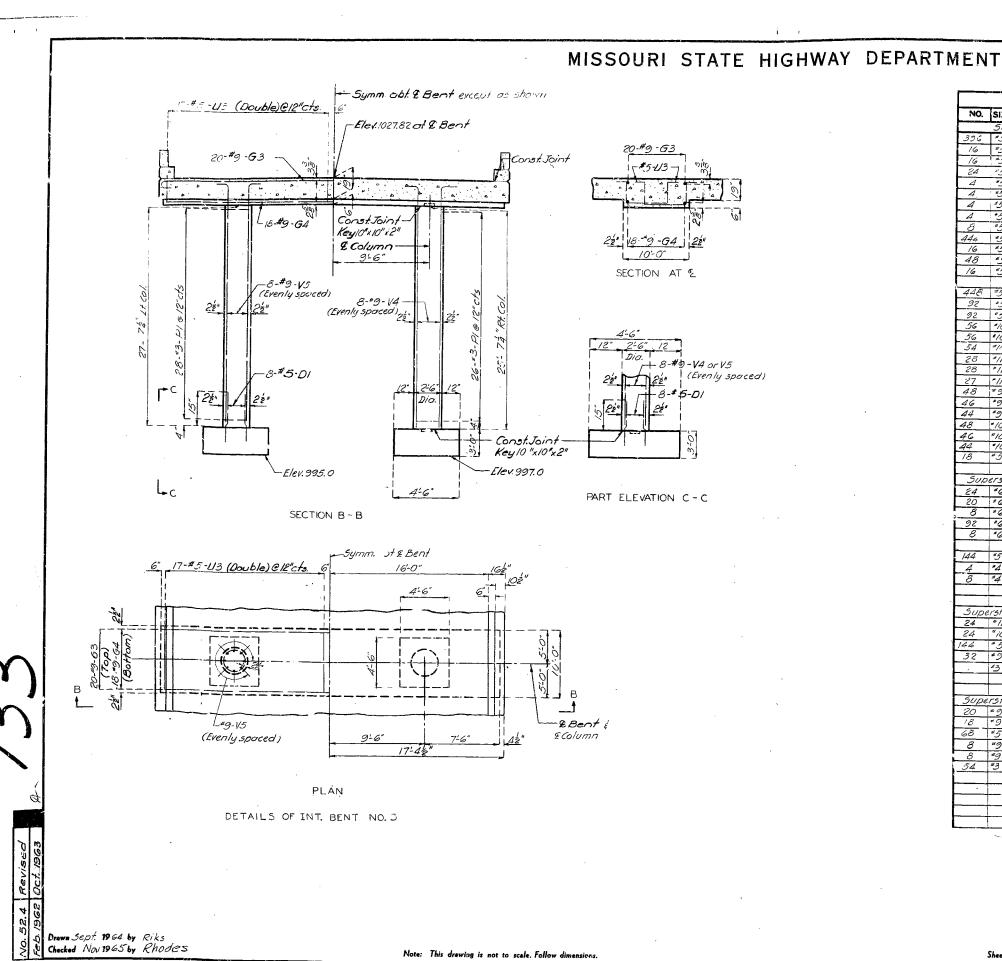
DISTRICT: CD

FED-ID: 981

BRIDGE: A1191







COMPLETE BILL OF REINFORCING STEEL BENDING SKETCHES & CUTTING DIAGRAMS NO. SIZE LENGTH MARK LOCATION NO. SIZE LENGTH MARK LOCATION =5 4:9" C/ 32 *5 2:6 D1 16 *6 8:0 D2 4-H3 Cut 8 4- V2 Cut 8 6 132 V-bors -Vertical leg 516-V3-V4-V5 Superstr. End Bents No.1 & 5 33'-5" 24 "6 34'-6" HI Bm. 01-03 "4 5:9" VI Wing 6" U2 62" U3 "10 33-9" GZ Drop Pai 3-11-02 6-4" U3 R2-R3-R4-R5-R6-R7 U2-U3 CI-22-23-UI

BRIDGE: ROUTE 19 UNDERPASS

STATE ROAD FROM PHELPS CO.LINE TO LEASBURG SPUR

FED. ROAD STATE FED. AID FISCAL SHEET TOTAL PROJ. NO. YEAR NO. SHEETS

ABOUT LOMILE N. OF CUBA

PROJECT NO.I-44-3(II) (RTE.I-44)STA.380 + 15.9

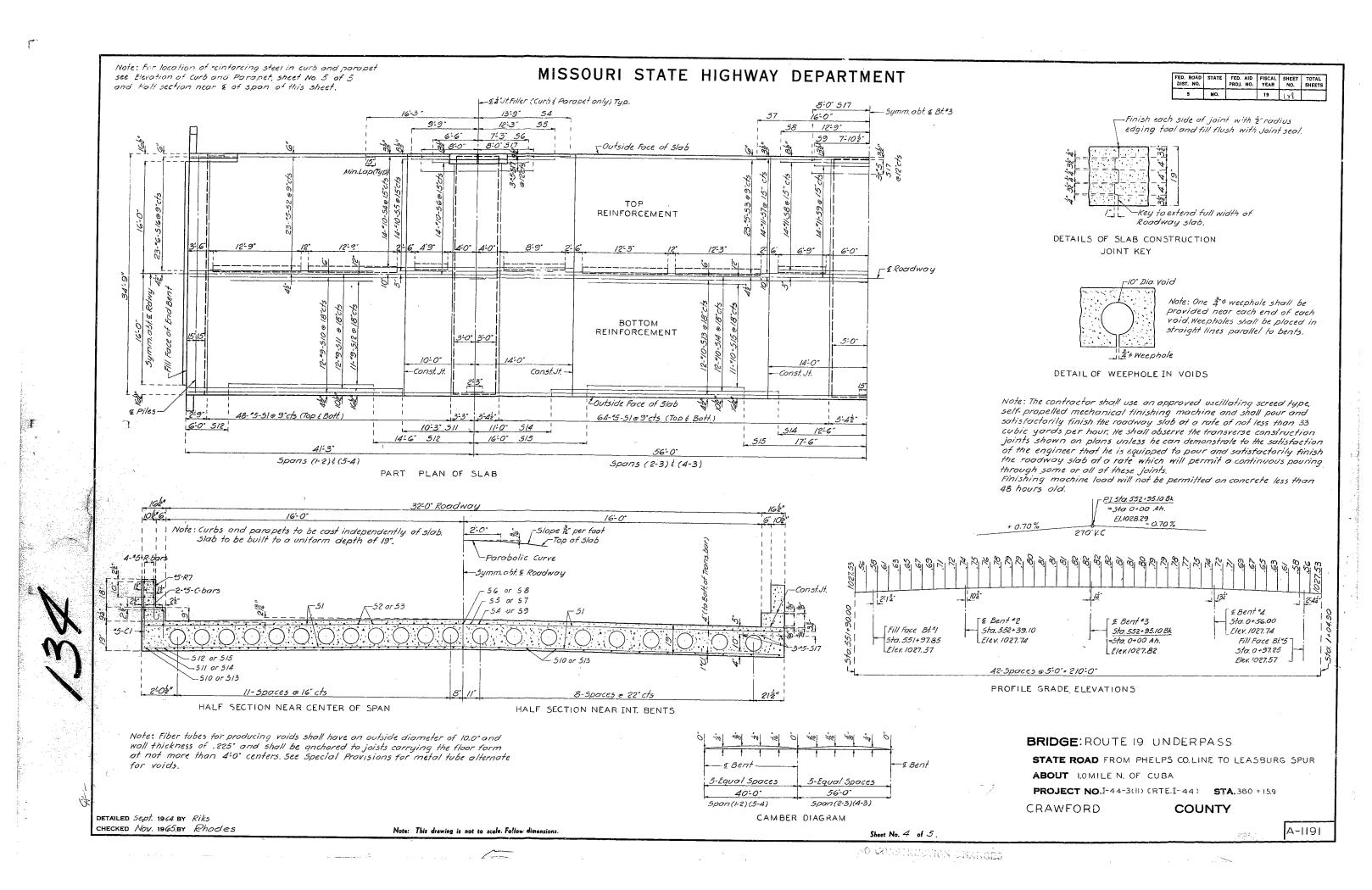
CRAWFORD

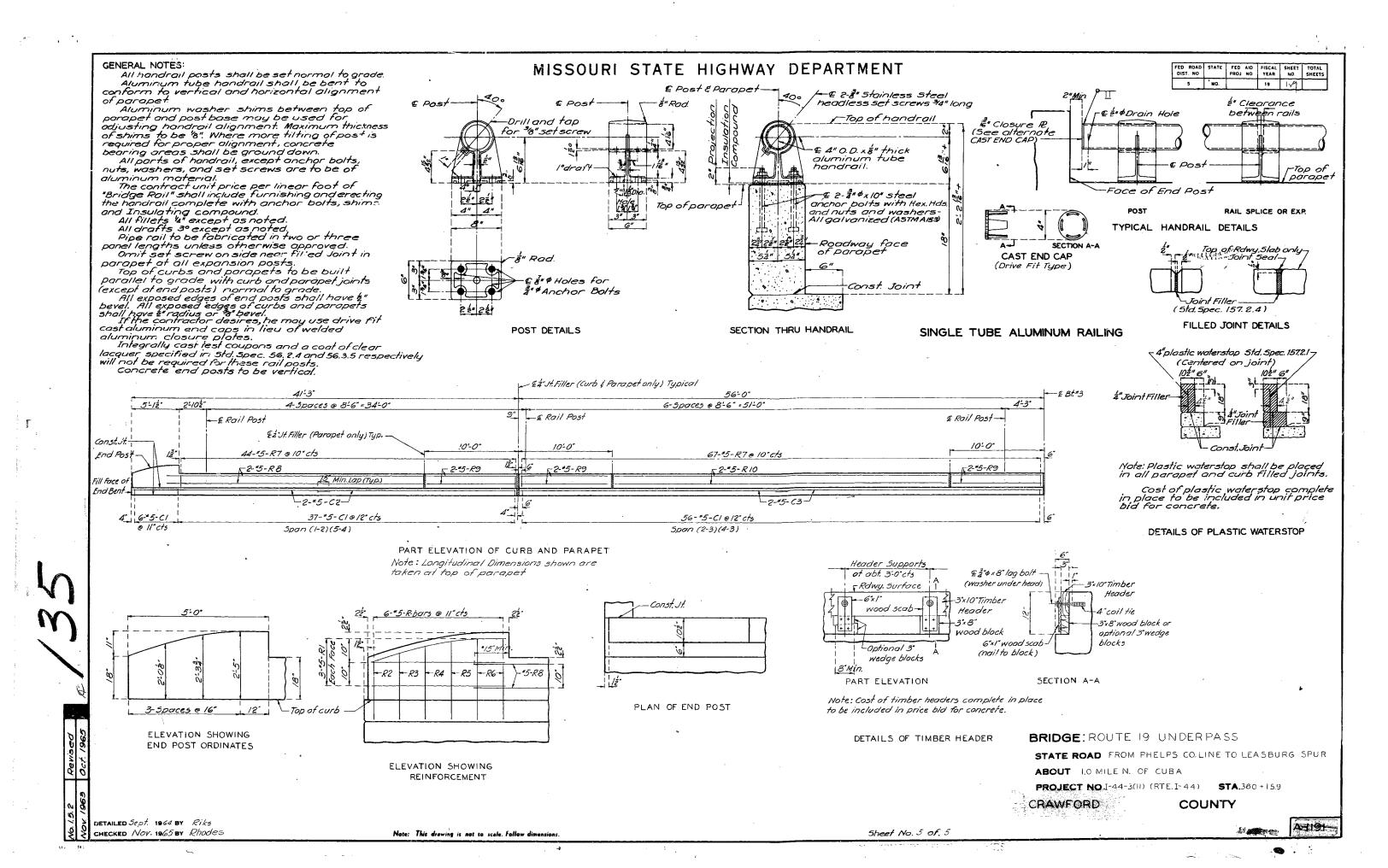
COUNTY

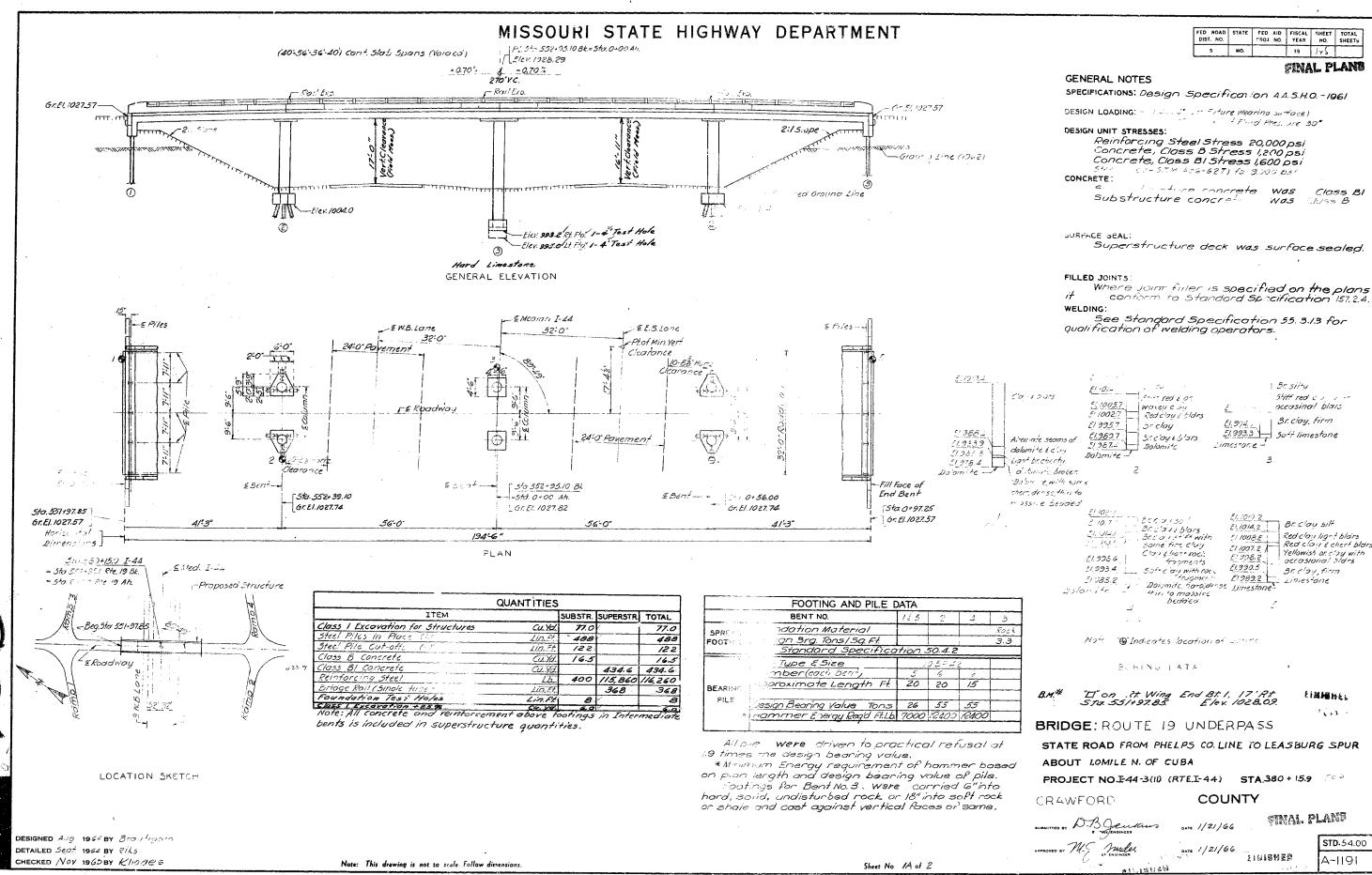
Sheet No. 3 of 5

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Sheet No. 3 of 3

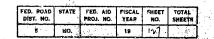


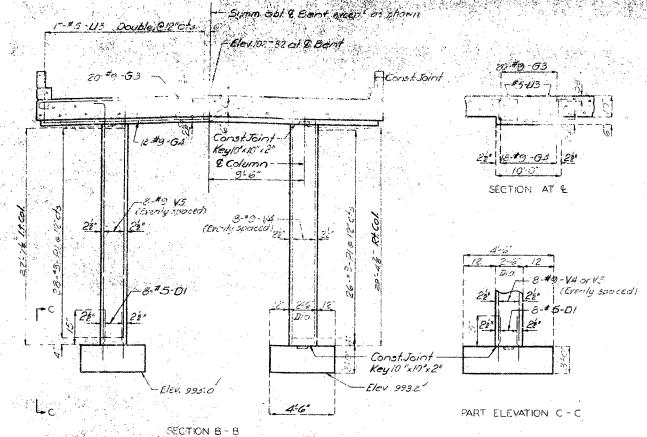


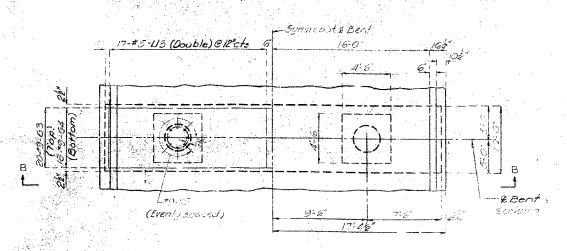


FINAL PLANS

MISSOURI STATE HIGHWAY DEPARTMENT







PLAN

DETAL FOR INT. BENT NO. 3

COMPLETE BILL OF REINFORCING STEEL NO. SIZE LENGTH MARN LOCATION BENDING SKETCHES & NO. SIZE LENGTH MARK LOCATION CUTTING DIAGRAMS 8-0" D2 -16 26 4- V2 Cut 8 26.5% -Verticalleg 42-3" 316-13-14-15 33'-5 34:6 HI BM. 61-63 6 12 23 UZ BM V5 Col. 3-11:02 6-4-1/3 R2 X3-84-45-86-87 112-113 Superstr. Int. Bent No.3 36-9 03 Bm 28:3 EIMISHED

BRIDGE: ROUTE 19 UNDERPASS

STATE ROAD FROM PHELPS COLLINE TO LEASBURG SPUR ABOUT LOMILE N. OF CUBA

PROJECT NO.1-44-3(11) (RTE.1-44)STA.380+15.9

CRAWFORD

COUNTY

GINSHED STRAL PLANS

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Sheet No 3,4 of 2

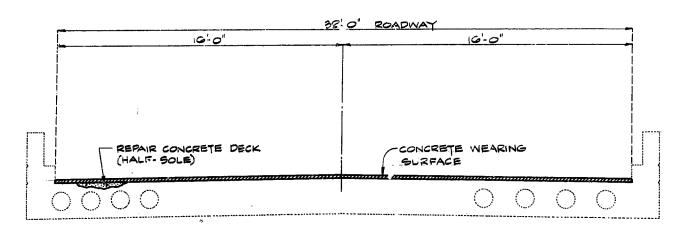
FINAL PLANS

Drawn Sept 1964 by Rits Checked Nov 1965 by Rhodes

Note: This drawing is not to scale. Follow dimensions

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

STATE	PROJ NO	SHEET
MO.		63
SEC./SUR 3	O TWP BAN' RG	E4W



TYPICAL SECTION THRU SLAB

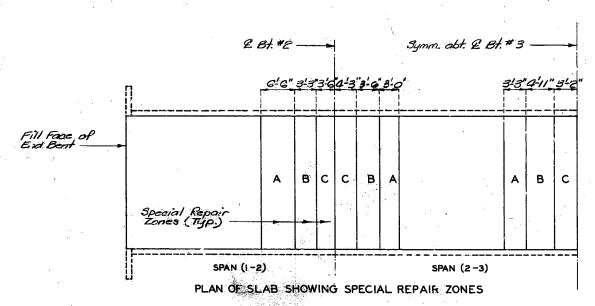
EPAIR CONCRETE DEICK (HALF-SOLING) SQ.FT.
) CONCRETE WEARING SURFACE * SQ.YD.

SEE JOB SPECIAL PROVISIONS FOR ALTERNATE USE OF CONCRETE WEARING SURFACE. ALTERNATE "A" = 13/4"(MIN) LATEX MODIFIED CONCRETE, ALTERNATE "B" = 2/4"(MIN) LOW SLUMP CONCRETE.

GENERAL NOTES:

OUTLINE OF OLD WORK IS INDICATED BY LIGHT DASHED LINES. HEAVY LINES INDICATE NEW WORK.

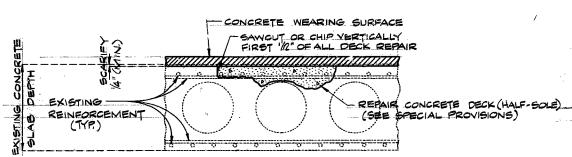
ONE LANE OF TRAFFIC OVER STRUCTURE TO BE MAINTAINED DURING CONSTRUCTION (SEE TRAFFIC CONTROL PLAN)



Note: Sequence of Repair: Lone A, Zone B, then Zone C. Any repairs in the remainder of the bridge that is within 4.0" of Zone A shall be completed before removing concrete in Zone H. Zones with the same letter designation may be repaired at the same time.

DESIGNED JAN. 1987 DETAILED JAN. 1987 CHECKED JAN. 1987

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



HALF-SOLE AREA

REPAIRS TO BRIDGE: ROUTE 19 UNDERPASS

STATE ROAD FROM PHELPS CO. LINE TO LEASBURG SPUR

ABOUT 1.0 MILE N. OF CUBA

PROJECT NO. IR-44-3(54)

STA. 380+15.9

JOB NO. 6-I-44-822

RTE. I -44 COUNTY

STD. A-1191 R

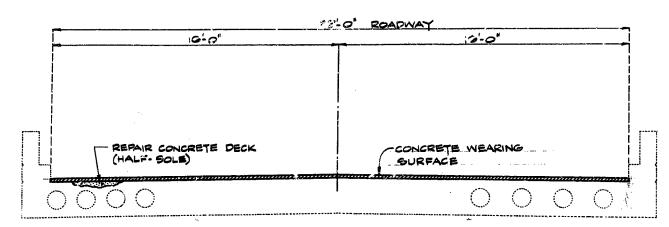
DATE 7/30/87

CRAWFORD Sheet No. | of |.

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

MQ. SEC /SUR 30 IMP BAN RGE AW

THINK PLANS.

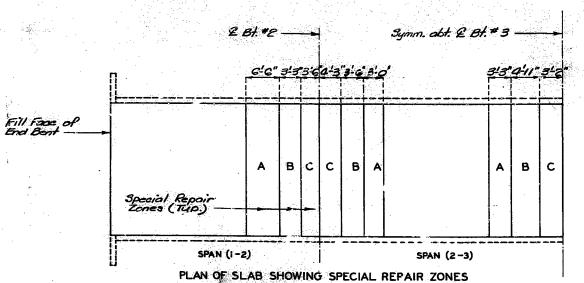


TYPICAL SECTION THRU SLAB

GENERAL WOTES:

OUTLINE OF OLD WORK IS INDICATED BY LIGHT DASHED LINES. HEAVY LINES INDICATE NEW WORK.

ONE LANE OF TRAFFIC OVER STRUCTURE TO BE MAINTAINED DURING CONSTRUCTION (SEE TRAFFIC CONTROL PLAN)



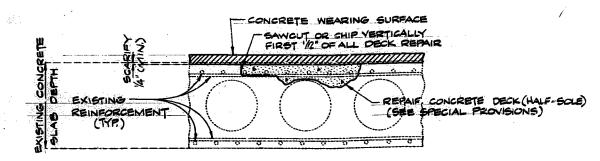
Note: Sequence of Repair: Zone A. Zone B, then Zone C. Any repairs in the rema ider of the bridge that is within 4.0° of Zone A shall be completed before removing concrete in Zone A. Zones with the same letter designation may be repaired at the same time.

DESIGNED JAN. 1987 DETAILED JAN. 1987 CHECKED JAN. 1987

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

FINAL QUANTITIES TOTAL ITEM 306 691 REPAIR CONCRETE DECK (HALF-GOLING) SQF Kowshim) concrete wearing burface * SOYD

SEE JOB SPECIAL PROVISIONS FOR ALTERNATE USE OF CONCRETE WEARING SURFACE. ALTERNATE "A" = 13/4"(MIN) LATEX MODIFIED CONCRETE. ALTERNATE "B"= 2/4" (MIN) LOW SLUMP CONCRETE.



HALF-SOLE AREA

REPAIRS TO BRIDGE: ROUTE 19 UNDFRPASS

STATE ROAD FROM PHELPS CO. LINE TO LEASBURG SPUR

ABOUT 1.0 MILE N. OF CUBA

PROJECT NO. IR-41-5(54)

STA. 380+15.9

JOB NO. 6-1-44-822 RTE. I -44

DATE 7/30/87

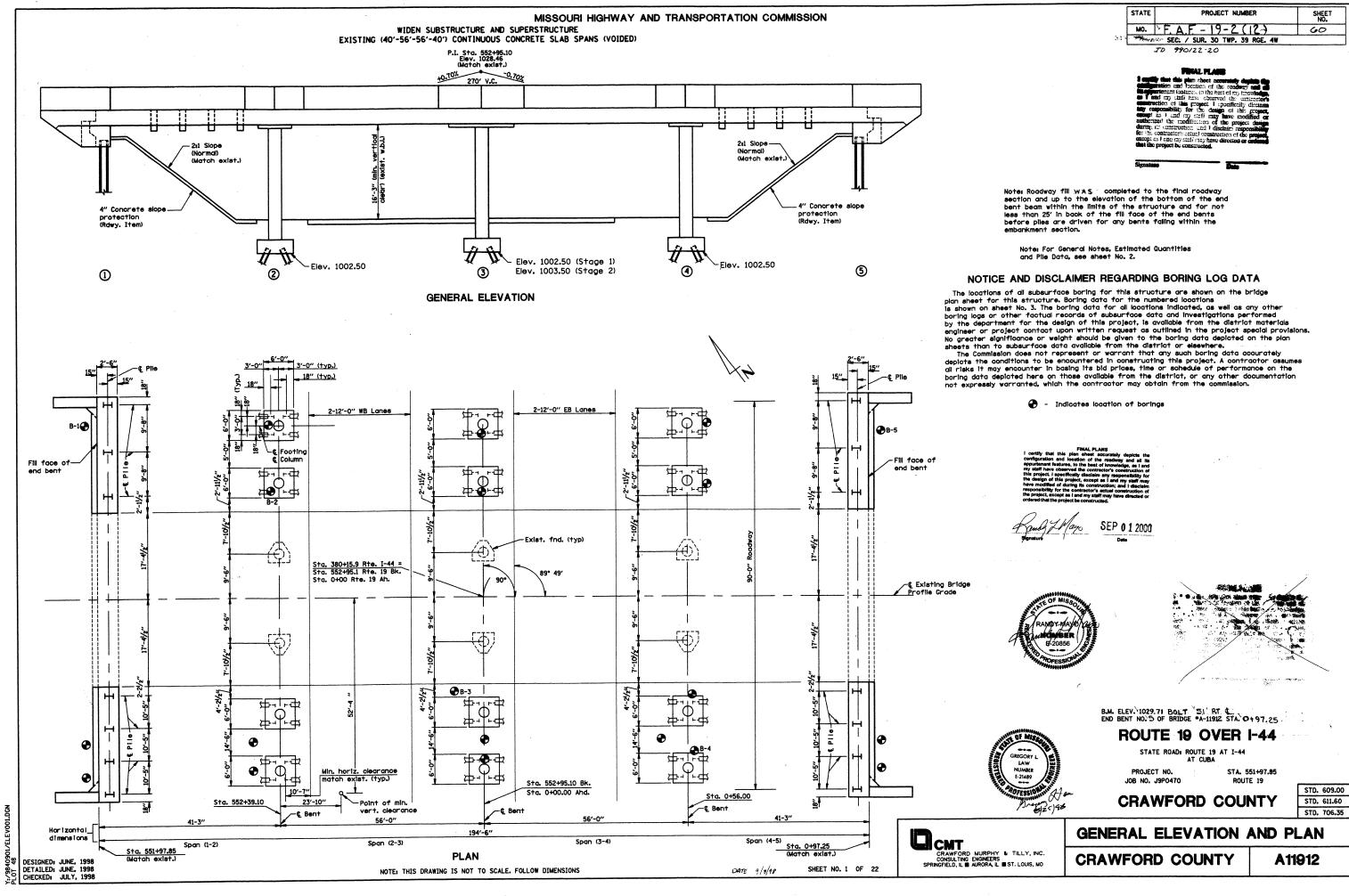
CRAWFORD

COUNTY

STD. A-1191 R

STD.

Shee: No. | A of |.



TATE	PROJECT NUMBER	SHEET NO.
MO.	F. A.F 19-2 (12)	61
•	JD 990122-20	0

>	QUANTITIES			
ITEM		SUBSTR.	SUPERSTR.	TOTAL
Removal and Storage of Existing Bridge Rail	lin. ft.		368	∖368 √
Curb Removal (Bridges)	lin. ft.		389	1389
Partial Removal of Substructure Concrete	lump sum	1		\1
Class 1 Excavation	ou. yd.	245.5		1245.5
Bridge Approach Slab (Bridge)	eq. yd.		500 /	\ 500 ∕
Structural Steel Piles (10 in.)	lin. ft.	1166		/ 1166
Pre-Bore for Piling	lin. ft.	221		. 221
Pile Point Reinforcement	each	62		√ 62
Class B Concrete (Substr.)	cu. yd.	39.9		√39.9
Class B1 Concrete (Supstr. Voided Slabs)	ou. yd.		88.9	` 88.9
Class B2 Concrete (Supstr. Volded Slabs)	cu. yd.		590 . 0 ~	√590.0
Safety Barrier Curb	lin. ft.		425 /	425
Low Slump Concrete Wearing Surface (Bridge)	sq. yd.	/	1268	√1268 ∕
Reinforcing Steel (Bridges)	pound	1680	187,490	189,170
Conduit System on Structure	lump sum		1 /	\sim_1 /
Slab Brain	each		16	√16
Vertical Drain at End Bents	each	2 /		\2'J
\(\frac{1}{2}\)				

Safety barrier curb

All reinforcement in the end bents and in columns at int. bents is included in the superstructure quantities.

All concrete in the end bents and in columns at int. bents is included in the superstructure quantities.

In order to maintain grade and minimum thickness of overlay shown on plans it may be necessary to use additional quantities of overlay at various locations throughout the structure. No payment will be allowed for additional labor, materials or equipment for variations of thickness of overlay.

Remove and store existing bridge rall at MODOT Cuba maintenance lot.



) <u>.</u>	1	2	3	4	5
	HP10x42	HP10×42	HP10x42	HP10x42	HP10×42
	7	16	16	16	7
(Stage 1 / Stage 2)	43/36	22 (LT) 15 (RT)/19 (LT) 16 (RT)	12 (LT) 13 (RT)/12 (LT) 18 (RT)	14/14	37/38
(Stage 1 / Stage 2)	47/42	36/28	38/30	36/28	47/42
os. (Stage 1 / Stage 2)	10600/9500	8500/7000	8800/7000	8500/7000	10600/950
	(Stage 1 / Stage 2) (Stage 1 / Stage 2)	HP10x42 7 (Stage 1 / Stage 2) 43/36 (Stage 1 / Stage 2) 47/42	HP10x42 HP10x42 7 16 (Stage 1 / Stage 2) 43/36 22 (LT) 15 (RT)/19 (LT) 16 (RT) (Stage 1 / Stage 2) 47/42 36/28	HP10x42 HP10x42 HP10x42 T 16 16 (Stage 1 / Stage 2) 43/36 22 (LT) 15 (RT)/19 (LT) 16 (RT) 12 (LT) 13 (RT)/12 (LT) 18 (RT) (Stage 1 / Stage 2) 47/42 36/28 38/30	HP10x42 HP10x42 HP10x42 HP10x42 HP10x42 HP10x42 7 16 16 16 16 (Stage 1 / Stage 2) 43/36 22 (LT) 15 (RT)/19 (LT) 16 (RT) 12 (LT) 13 (RT)/12 (LT) 18 (RT) 14/14 (Stage 1 / Stage 2) 47/42 36/28 38/30 36/28

Minimum energy requirement of hammer is based on plan length and

Maintain and the first product of piles.

All piles were driven to refusal on rock.

Prebore for piles at Bent 1 and Bent 5 to natural ground.

Prebore for piles at Bent 3 to elevation: Stage 1 992.0 , Stage 2 993.0 Manufactured pile point reinforcement were used on all piles. See

NOTE: THIS DRAWING IS NOT TO SCALE, FOLLOW DIMENSIONS

GENERAL NOTES

Design Specifications: A.A.S.H.T.O. –1996 and Interim 1997 Load Factor Design Seismic Performance Category A Acceletation Coeficient = .10

Design Loading HS20-44

No Future Wearing Surface Earth 120*/cu. ft., Equivalent Fiuld Pressure 45*/cu. ft.

Design Unit Stresses

Unit Stresses
Class B Concrete (Footing)
Class B2 Concrete (Superstructure
except Safety Barrier Curb)
Class B1 Concrete (Int. bent columns,
End Bents below const. Jt. at bottom
of slab and safety barrier curb)
Reinforcing Steel (Grade 60)
Steel Pile (ASTM 709 Grade 36) 3,000 psi f'c 4,000 psi f'o 4,000 psi f'o 60,000 psi fy 9,000 psi fb

Joint Filler: All joint filler shall meet the requirements of Std. Spec. 1057.2.4, except as noted.

Reinforcing Steel: Minimum clearance to reinforcing steel shall be $1/\!/2'',$ unless otherwise shown.

Construction Clearance: A minimum vertical clearance of 14'-9" from crown of existianes and a minimum clear opening of 28'-0" for each lane of

Rte I-44 shall be maintained during construction. Contractor shall verify all dimensions in field beforing ordering

Traffic over structure to be maintained during construction

Outline of old work is indicated by light dashed lines. Heavy lines

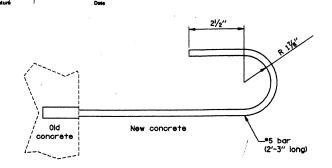
Bars bonded in old concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, old bars shall extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bars,

Resin Anchors

Cost of furnishing and installing resin anionor systems complete in place shall be included in the contract unit price bid for concrete. The contractor shall use one of the resin anchor systems listed in the job special provisions.

These reain anchor systems shall be installed according to the manufacturer's specifications, except as modified by the job special provisions and that a *5 grade 60 reinforcing bar 2'-3" long shall be substituted for the 5%" dia, threaded rod stud.

The $\frac{\pi}{4}$ diameter resin anchor systems shall have a minimum ultimate pullout strength of 15,500 Lbs. In concrete with f 'c=4,000 psl. See special provisions.



DETAIL OF RESIN ANCHOR SYSTEM





UCMT CRAWFORD MURPHY & TILLY, INC. CONSULTING ENGINEERS SPRINGFIELD, IL # AURORA, IL # ST. LOUIS, NO QUANTITIES AND GENERAL NOTES

CRAWFORD COUNTY

A11912

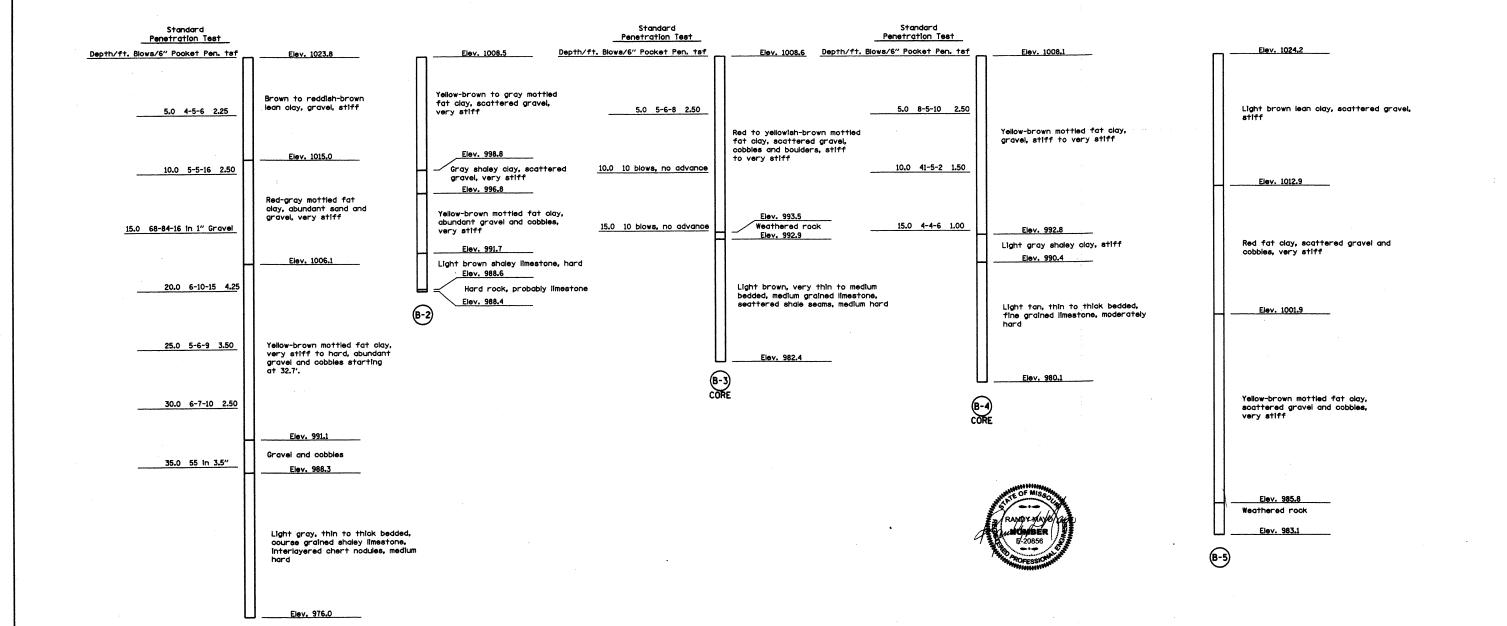
Checked by

DETAILED: JUNE, 1998 CHECKED: JULY, 1998

SHEET NO. 2 OF 22

LINAL PLANS

STATE PROJECT NUMBER SHEET NO. EAE-19-2(12) MO. 62 In- 19000 20



BORING DATA

Note: For location of borings see sheet No. 1



BORING DATA

CRANFORD MURPHY & TILLY, INC. CONSULTING ENGINEERS SPRINGFELD, IL # AURORA IL # ST. LOUIS, NO

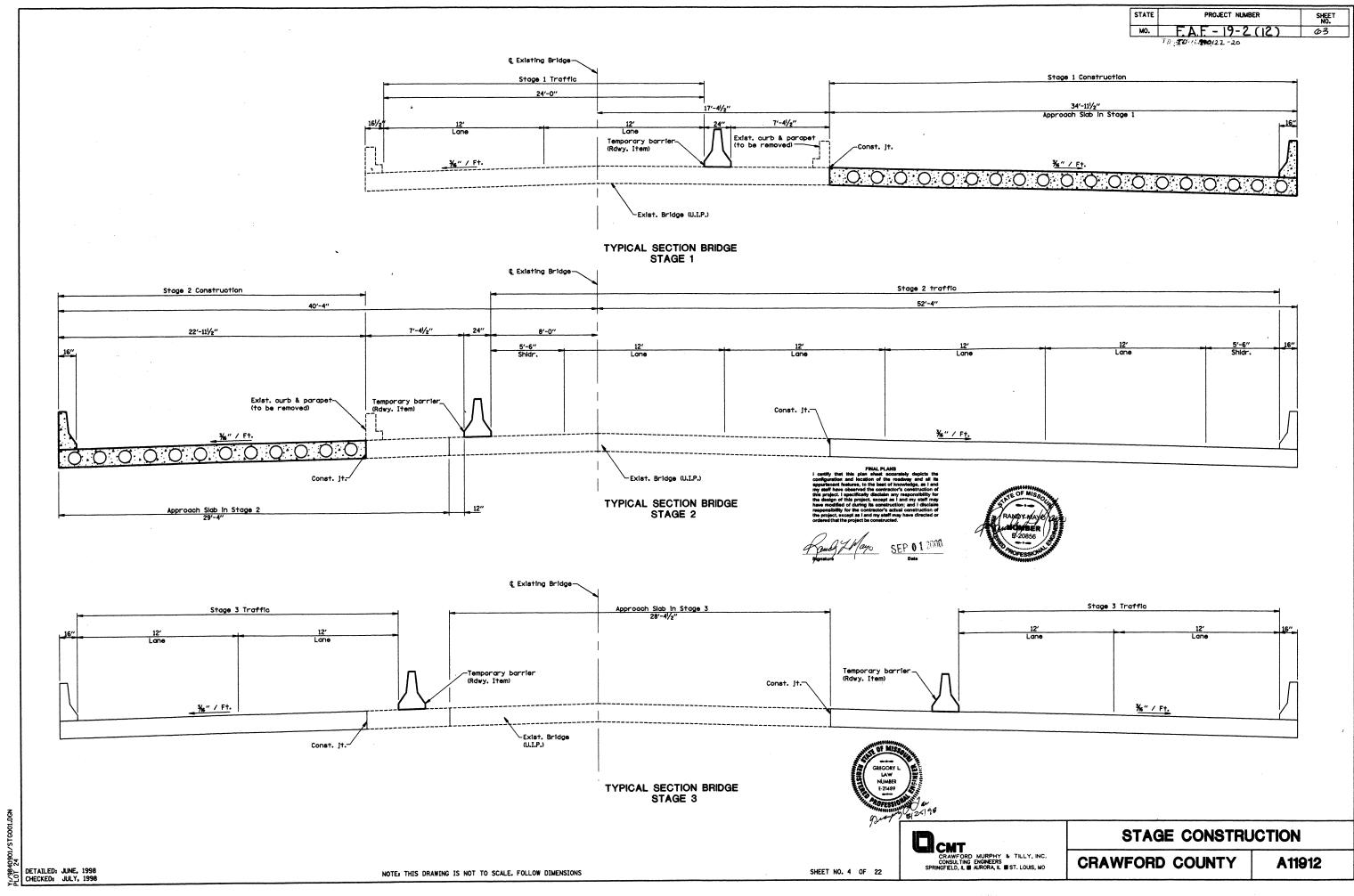
CRAWFORD COUNTY

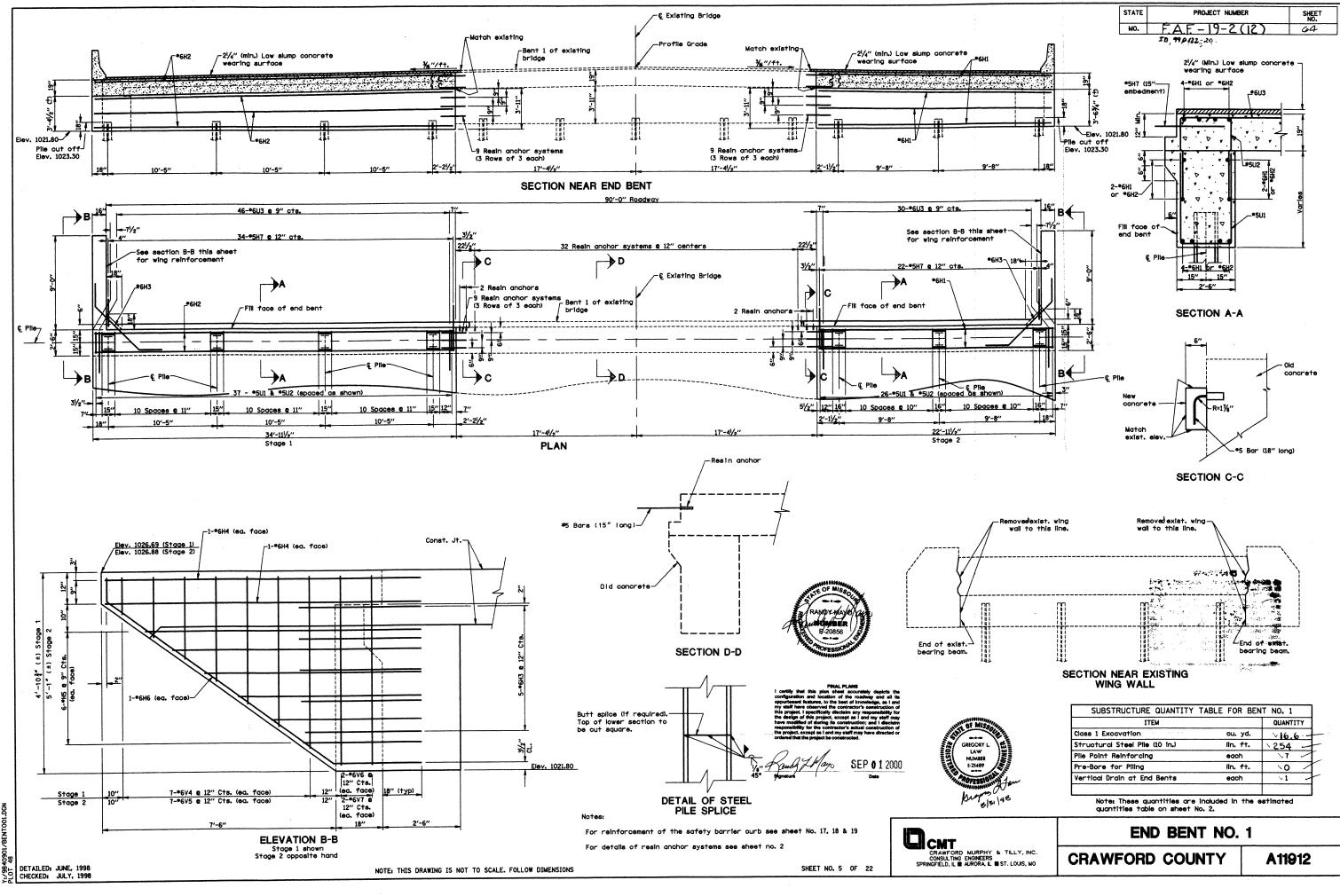
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DETAILED: JUNE, 1998 CHECKED: JULY, 1998

NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS

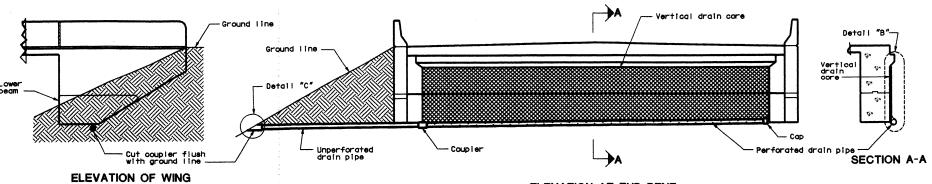
SHEET NO. 3 OF 22





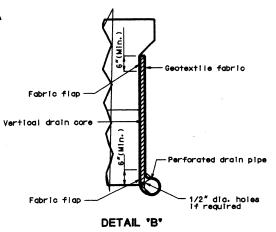
PROJECT NUMBER SHEET NO. 65 MO. F. A.F. - 19-2 (12)

ID 990/22-20

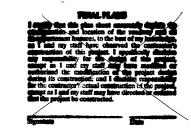


ELEVATION AT END BENT VERTICAL DRAIN AT END BENTS 4" diameter corrugated polyethylene (PE) drain pipe.

Perforated pipe shall be placed at fill face side at the bottom of end bent and plain pipe shall be used where the vertical drain ends to the exit at ground line.









CRAT MURPHY & TILLY, INC. CONSULTING ENGINEERS SPRINGFIELD, IL & AURORA, IL & ST. LOUIS, MO

VERTICAL DRAIN AT END BENT

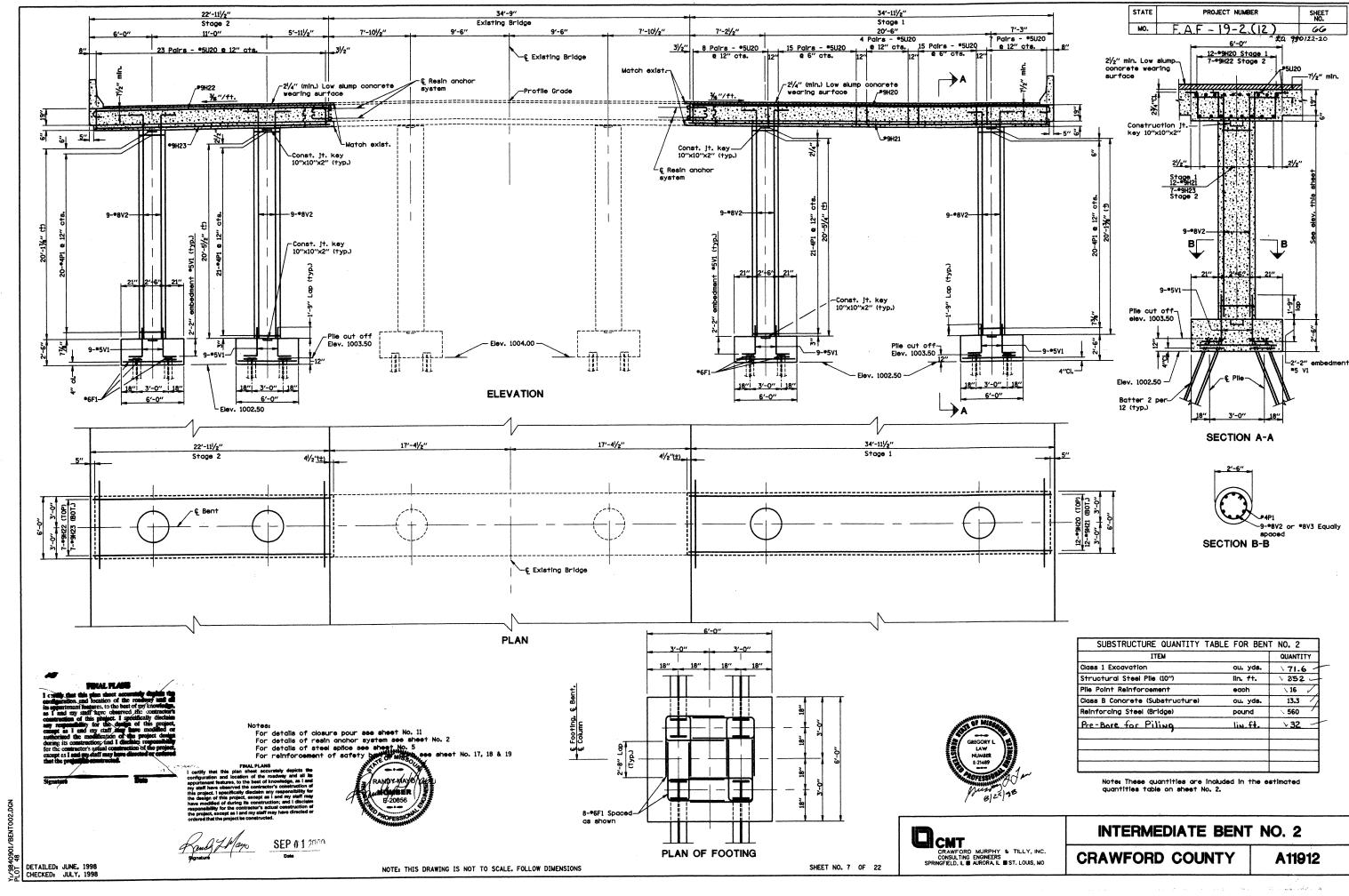
CRAWFORD COUNTY A11912

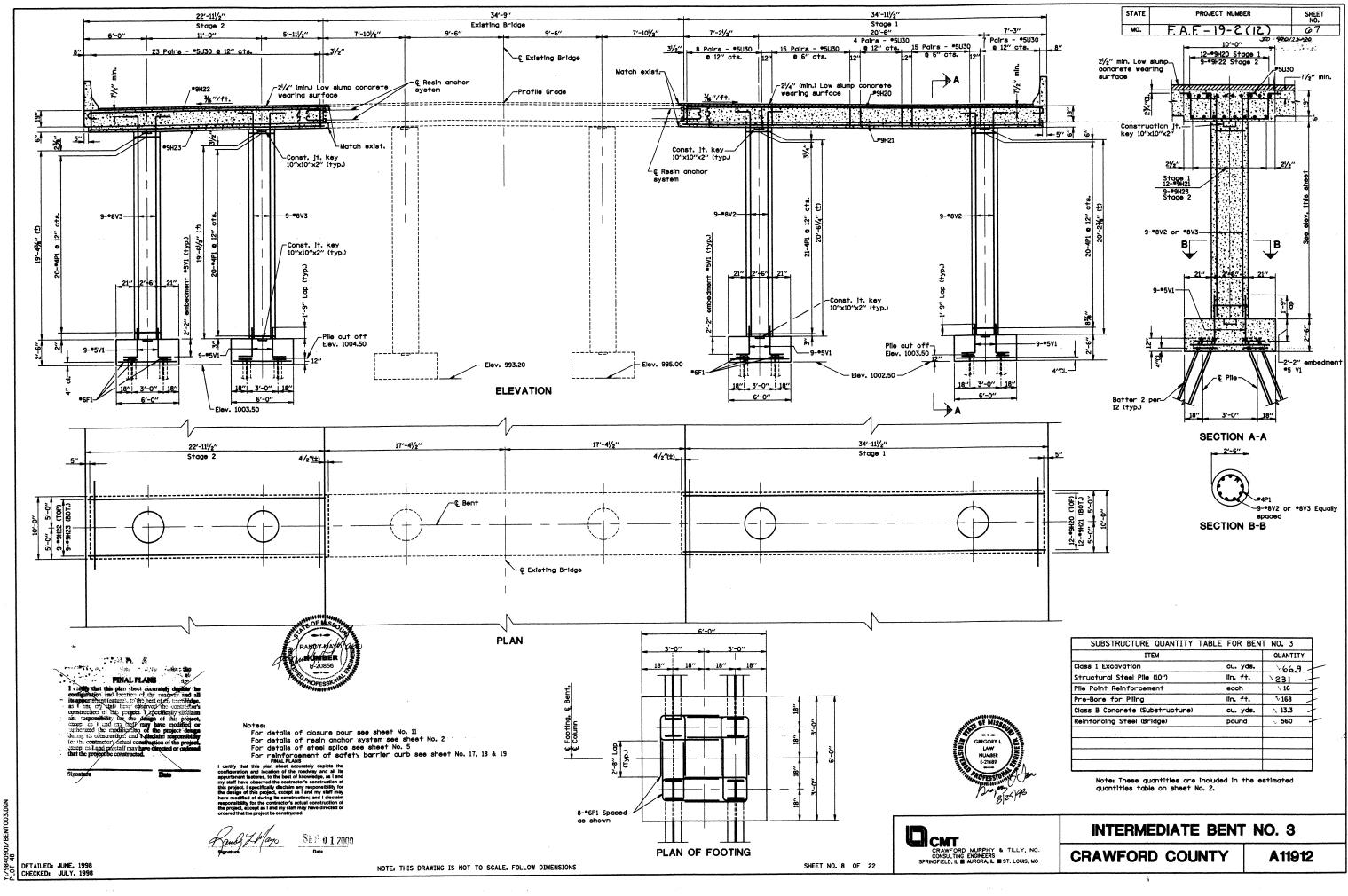
DETAILED: JUNE, 1998 CHECKED: JULY, 1998

NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS

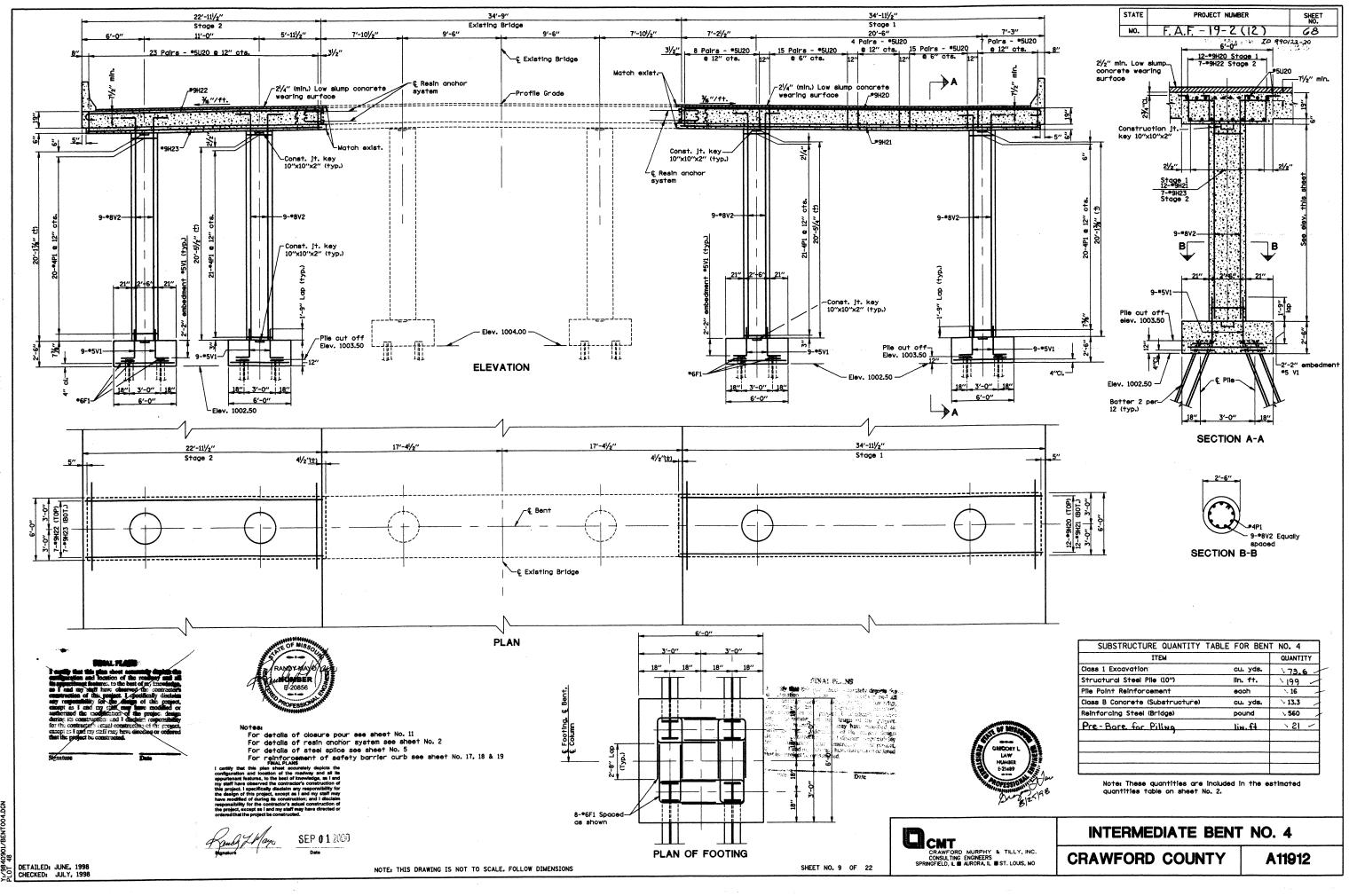
SHEET NO. 6 OF 22

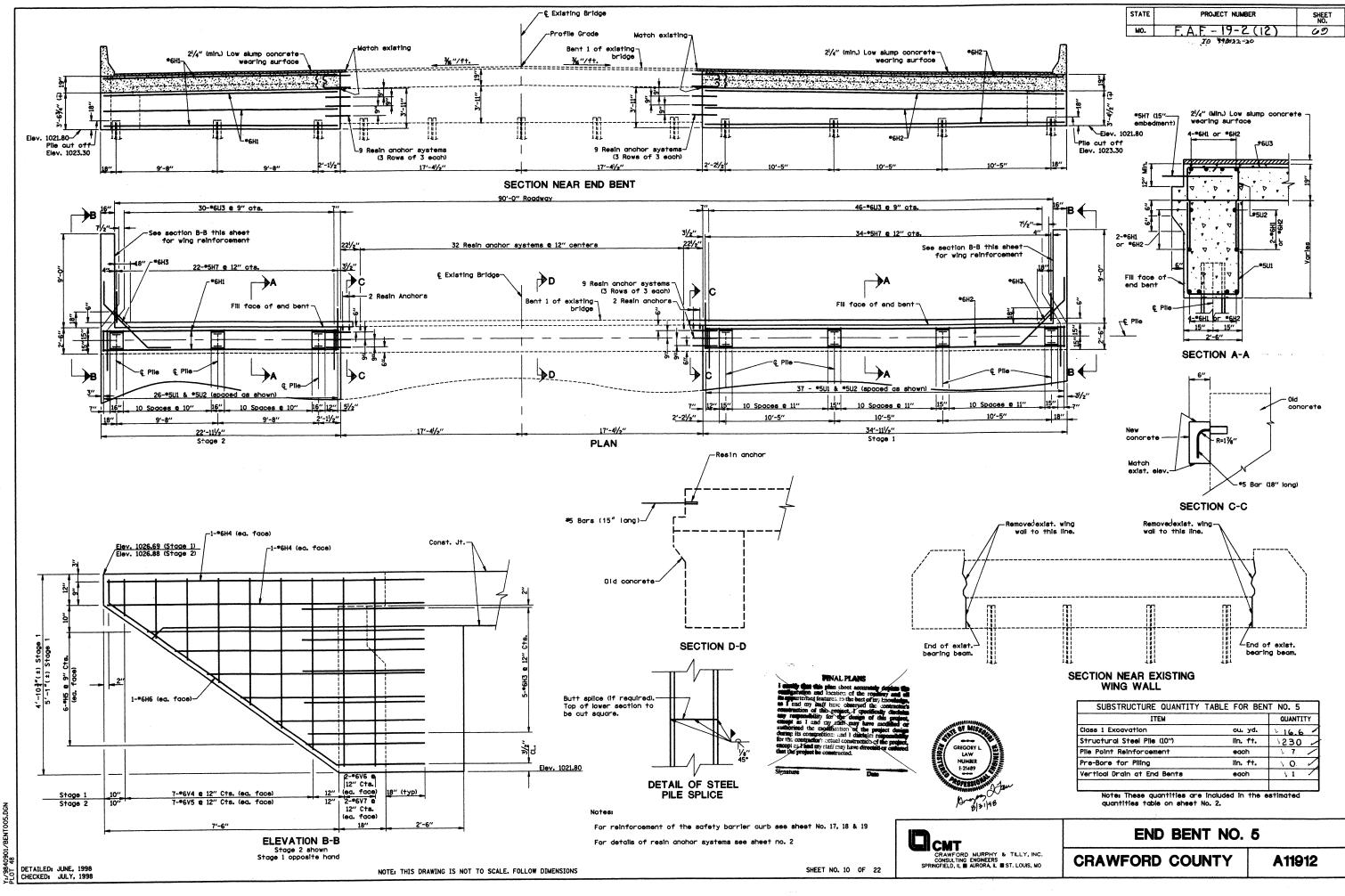
DETAIL 'C'





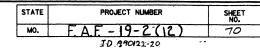
FINAL PLANS

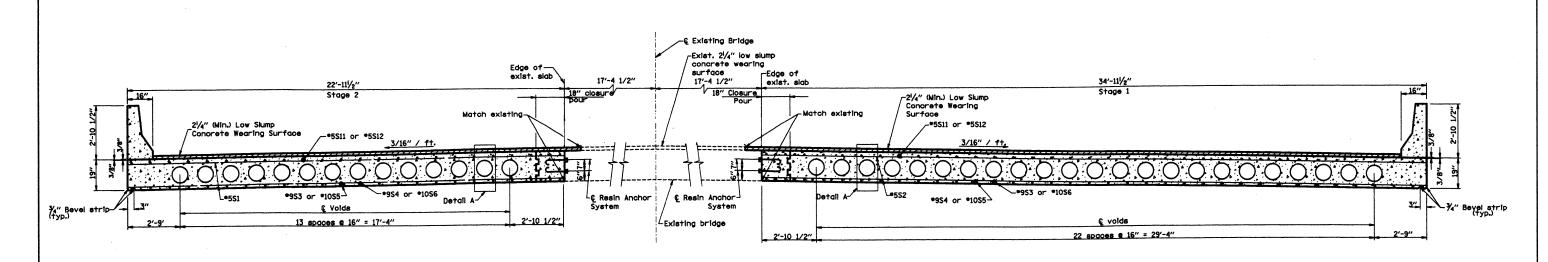




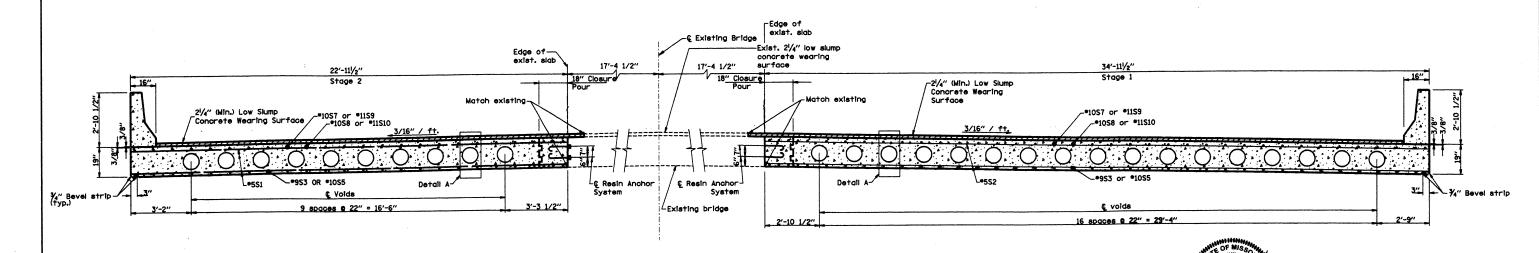
0 1 2000

SEP





PARTIAL SECTION THRU SLAB NEAR MID-SPAN

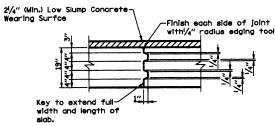


PARTIAL SECTION THRU SLAB NEAR INTERMEDIATE BENTS

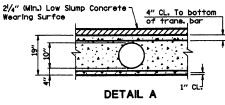
Note: The contractor shall furnish an approved retarder to retard the set of the concrete to 2.5 hours and shall pour and satisfactorilly finish the roadway slab at the rate of less than 25 cubic yards per hour. The contractor shall observe the transverse construction joints shown on the plans, unless he can demonstrate to the engineer that he is equipped to pour and satisfactorily finish the roadway slab at a rate which permits a continous pouring through some or all of these joints.

Use expansive Class B2 concrete in closure pour (see special

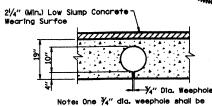
Use expansive Class B2 concrete in closure pour (see special provisions). Release forms before closure pour is placed. Tubes for producing volds shall have an outside diameter of 10.00" and shall be anchored at no more than 4"-0" centers. Fiber tubes shall have a wall thickness of not less than .225".



DETAIL OF SLAB CONSTRUCTION
JOINT KEY

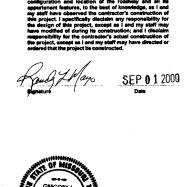


TRUCTION



Note: One \$\frac{7}{4}"\ dia.\ \text{weephole}\ \text{shall}\ \text{be}\ \text{provided}\ \ \text{near}\ \text{each}\ \ \text{each}\ \text{each}\ \ \text{each}\ \text{

DETAIL OF WEEPHOLE IN VOIDS





CRAT

CRAWFORD MURPHY & TILLY, INC.

CONSULTING ENGINEERS

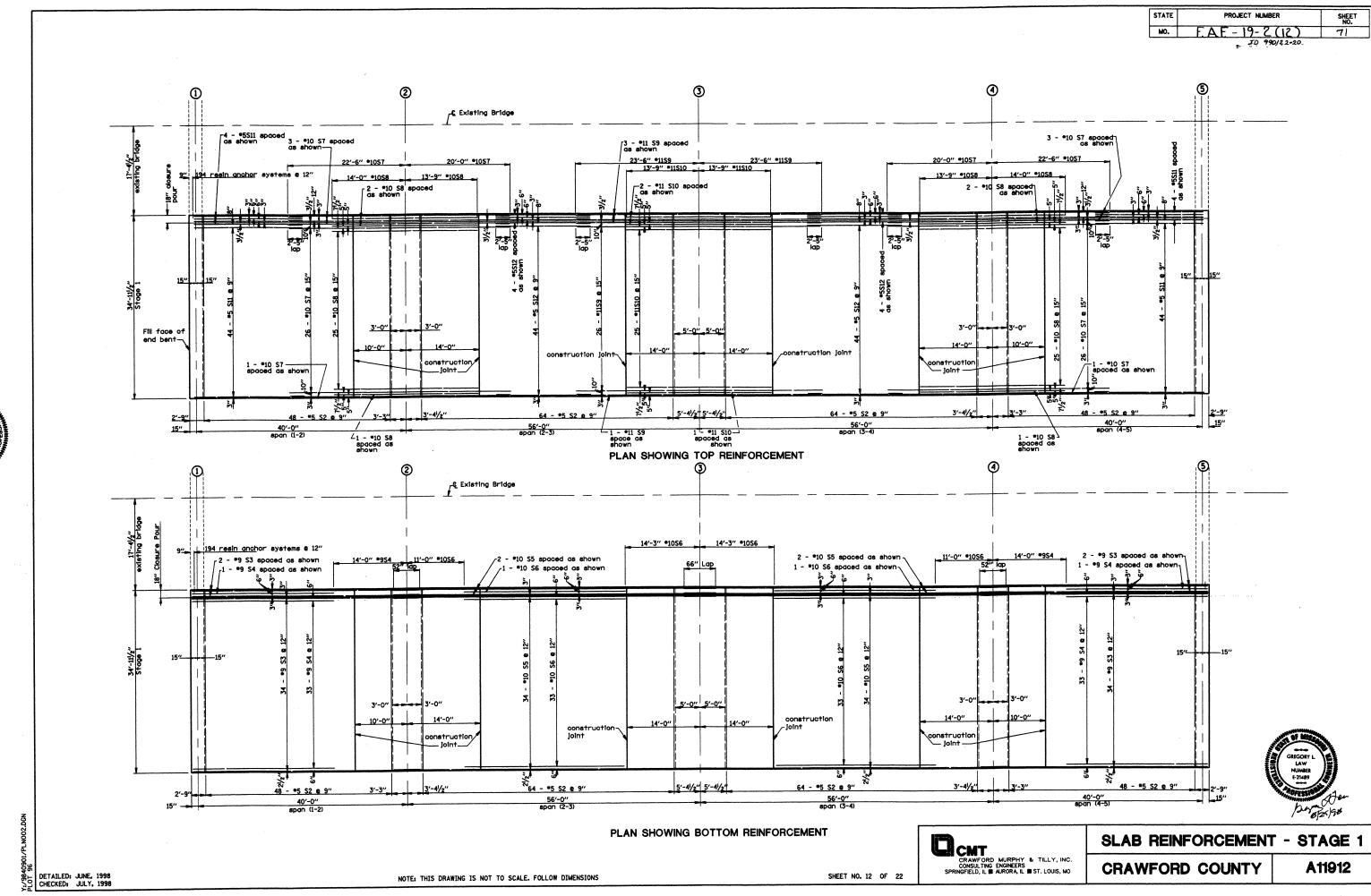
SPRINGFIELD, IL # AIRORA, IL # ST. LOUIS, MO

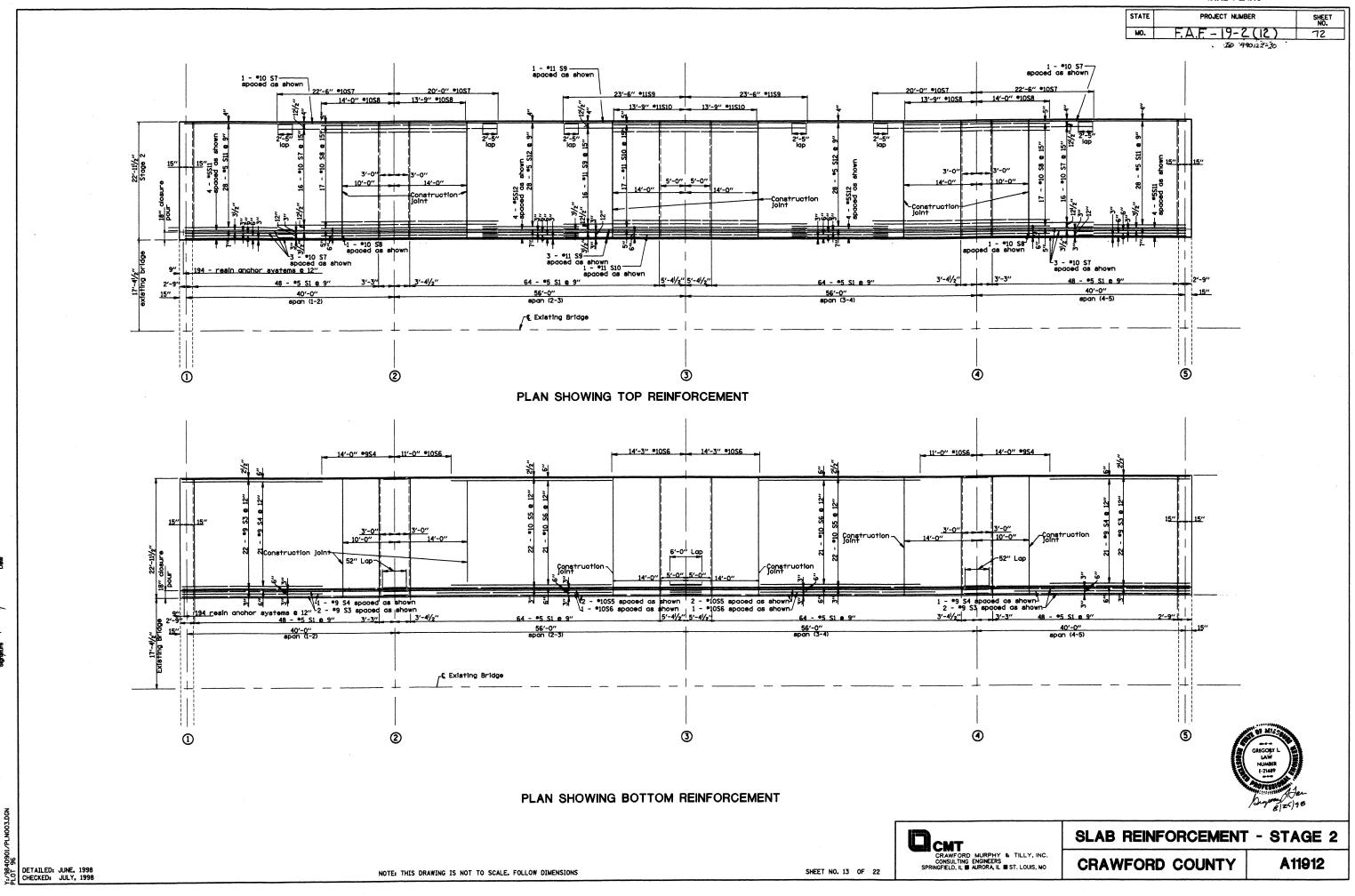
SECTIONS THRU SLAB
CRAWFORD COUNTY

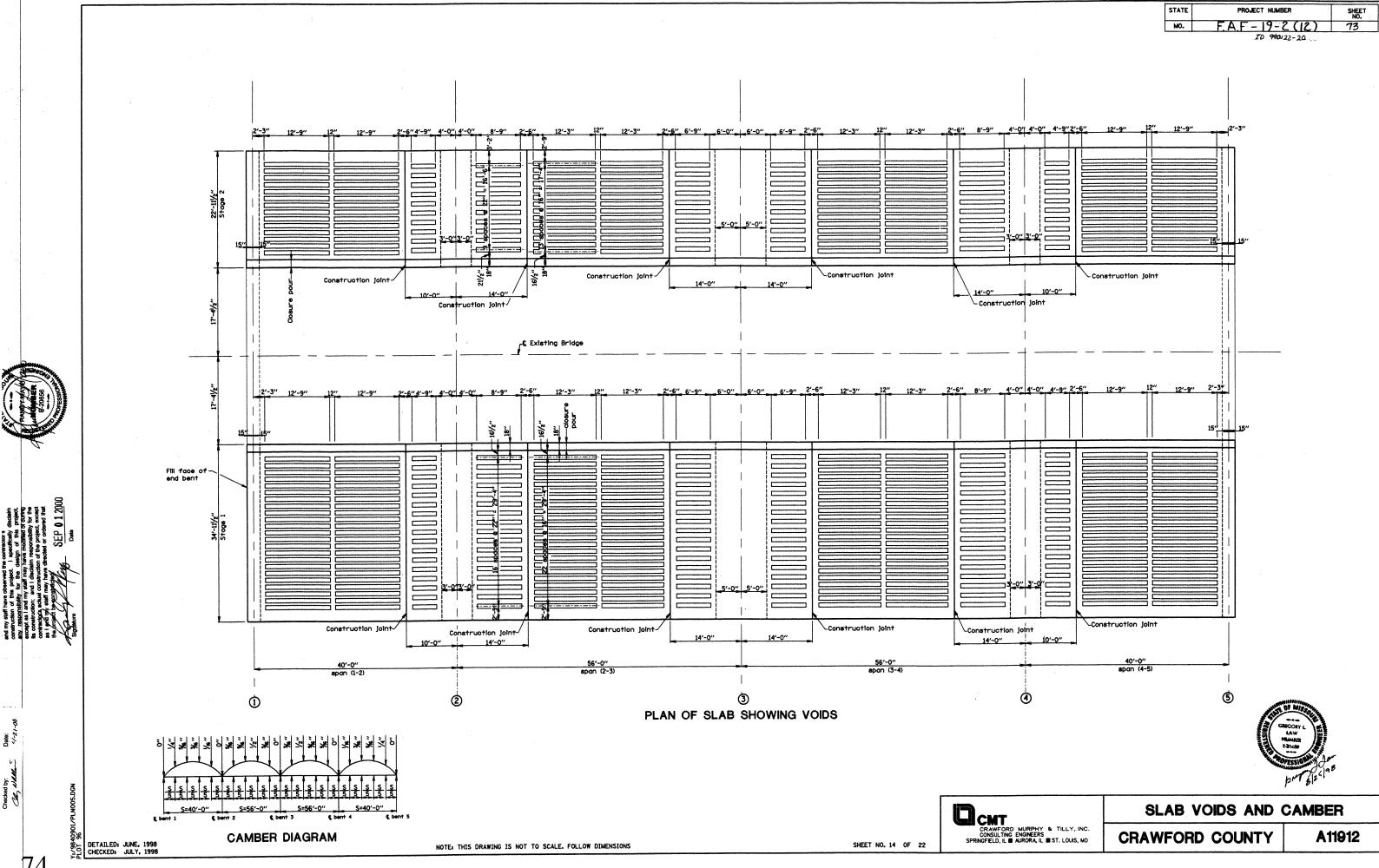
A11912

DETAILED: JUNE, 1998 CHECKED: JULY, 1998 NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS

SHEET NO. 11 OF 22







PROJECT NUMBER MO. F. A.F. - 19-2 (12) ID 990122-20

Notes:
Slob drains may be fabricated of either 1/4" weided sheets of ASTM A709 Grade 35 steel or from 1/4" structural steel tubing ASTM A500 or ASOL.
Outside dimensions of drains are;
Plece "A" = 8½"x4½"
Plece "A" shall be cast in the concrete. Prior to placement of wearing surface, Plece "B" shall be inserted into Plece"A".
Locate Plece "A" in slab by dimensions shown.
Shift reinforcing steel in field where necessary to clear drain. drain.
Pleces "A" and "B" shall be galvanized in accordance with ASTM A123.
All bolts, hardened washers, lock washers and nuts shall be galvanized in accordance with ASTM A153.
Shop drawings will not be required for the slab drains.

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified of during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered that the project be oppresizeded.

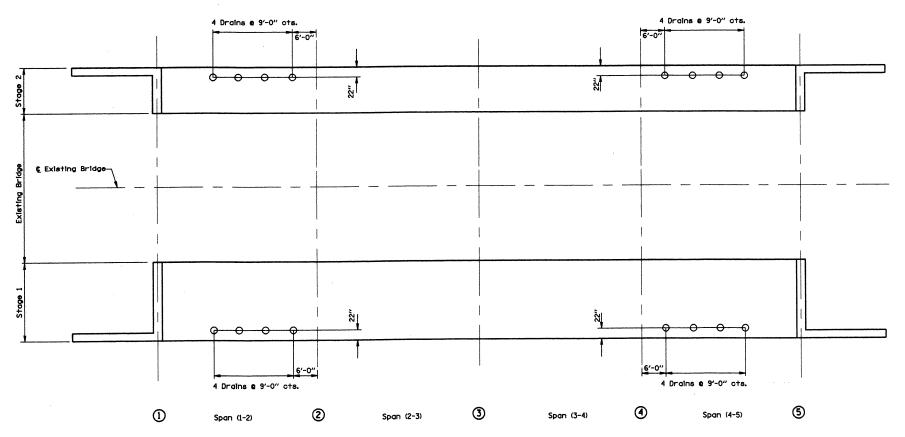
FINAL PLANS

OCMT CRAWFORD MURPHY & TILLY, INC. CONSULTING ENGINEERS
SPRINGFIELD, IL AURORA, IL ST. LOUIS, MO

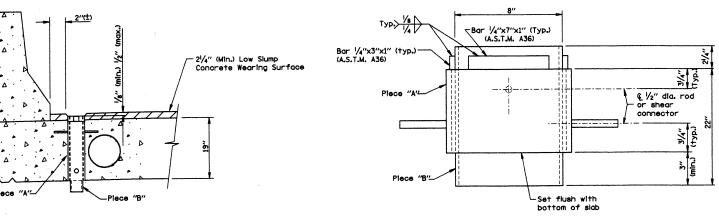
SLAB DRAINS

CRAWFORD COUNTY

A11912

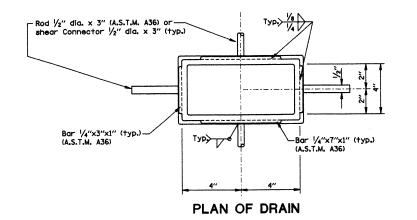


SLAB DRAIN LOCATION PLAN



PART ELEVATION OF SLAB AT DRAIN

ELEVATION OF DRAIN

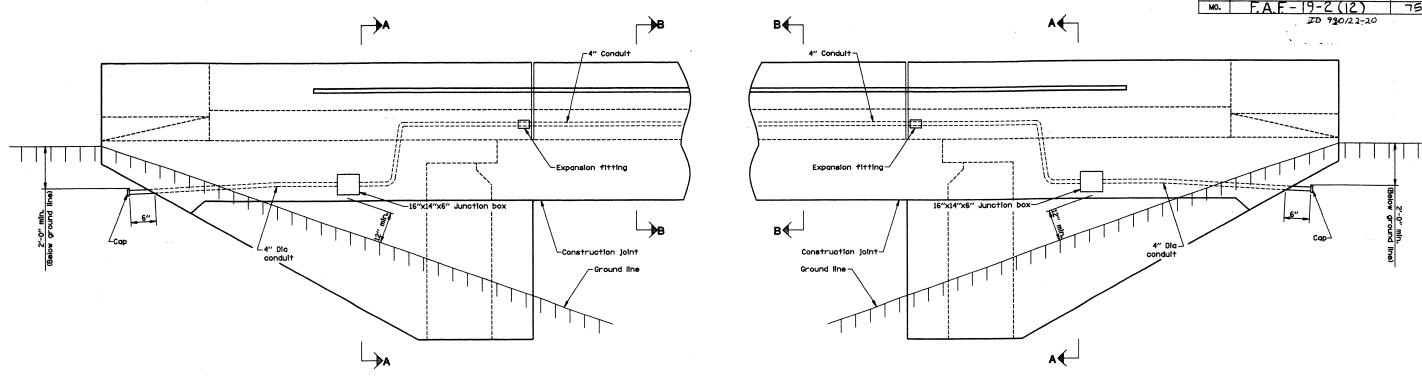


NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS

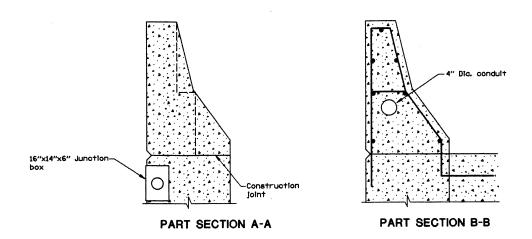
SHEET NO. 15 OF 22

DETAILED: JUNE, 1998 CHECKED: JULY, 1998

STATE PROJECT NUMBER F.A.F-19-2 (12) MO.



ELEVATION OF RIGHT SAFETY BARRIER CURB



Notes:

All conduit shall be rigid non-metallic schedule 40 heavy wall PVC (polyvinyl chloride plastic) with 3" minimum cover in concrete. Each section of conduit shall bear the underwriters laboratories, inc., (UL) label.

Shift reinforcing steel in field where necessary to clear conduit and junction boxes. Expansion fittings shall provide a minimum movement in either direction of ½" at filled joints. Expansion fittings shall be equal to Carion Electrical Construction Products or Cantex, Inc. All end bent junction boxes shall be PVC molded flush mounted and equal to Carion Electrical Construction Products or Cantex, Inc. The conduit terminations shall be permanent or separable. The conduit terminations and covers shall be of watertight construction and shall meet requirements for NEMA 4 enclosure.

Weepholes shall be provided at appropriate locations to drain any moisture in the conduit system. Payment for furnishing and installing Conduit System, complete-in-place, will be paid for at the contract unit price for Conduit Systems on Structure, lump sum.



FINAL PLANS

I contrify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified of during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered that the purispet be construction of I certify that this plan sheet accurately depicts the



CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
SPRINGFIELD, IL B AURORA, IL BST. LOUIS, MO

CONDUIT SYSTEM

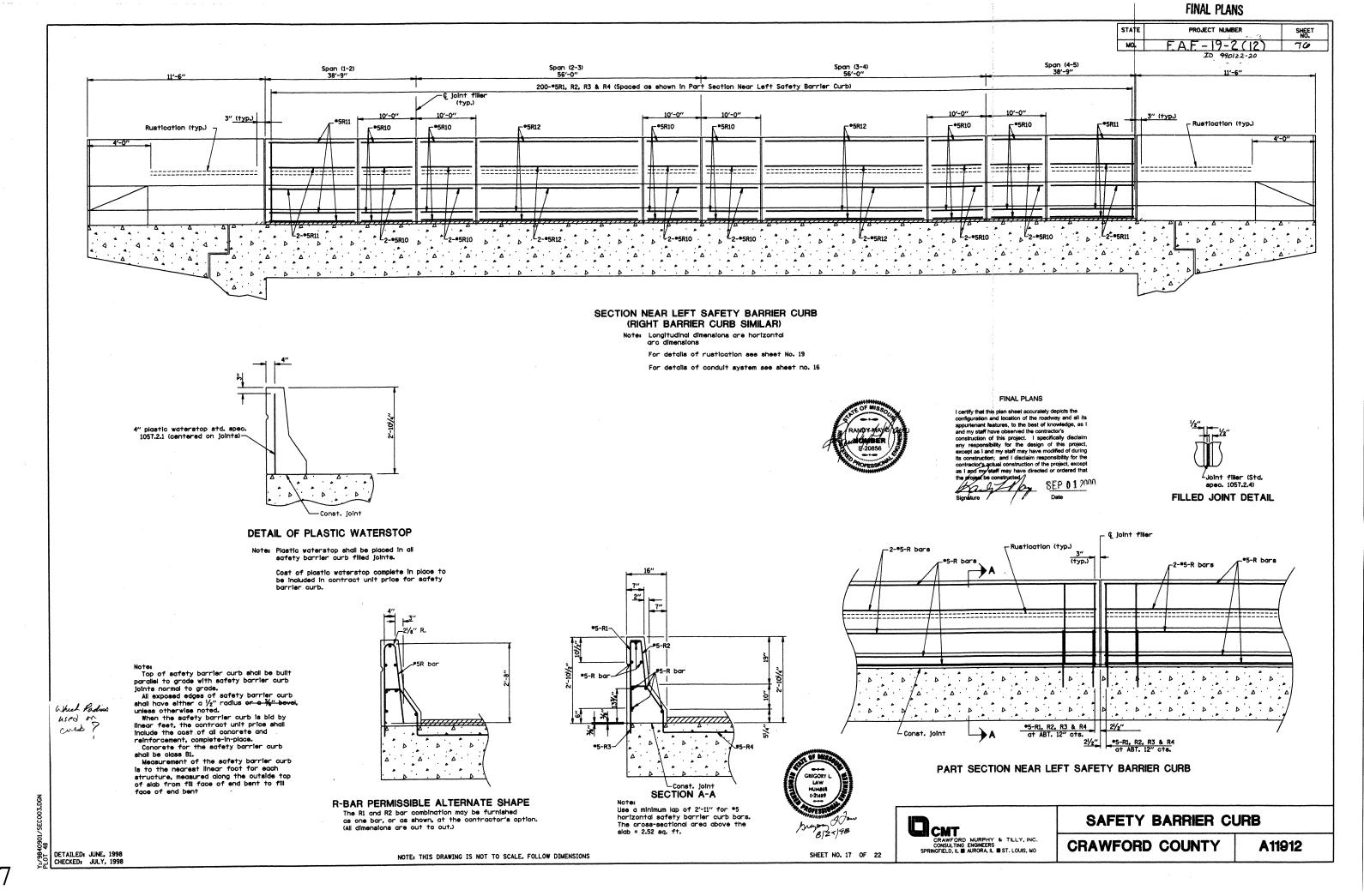
CRAWFORD COUNTY

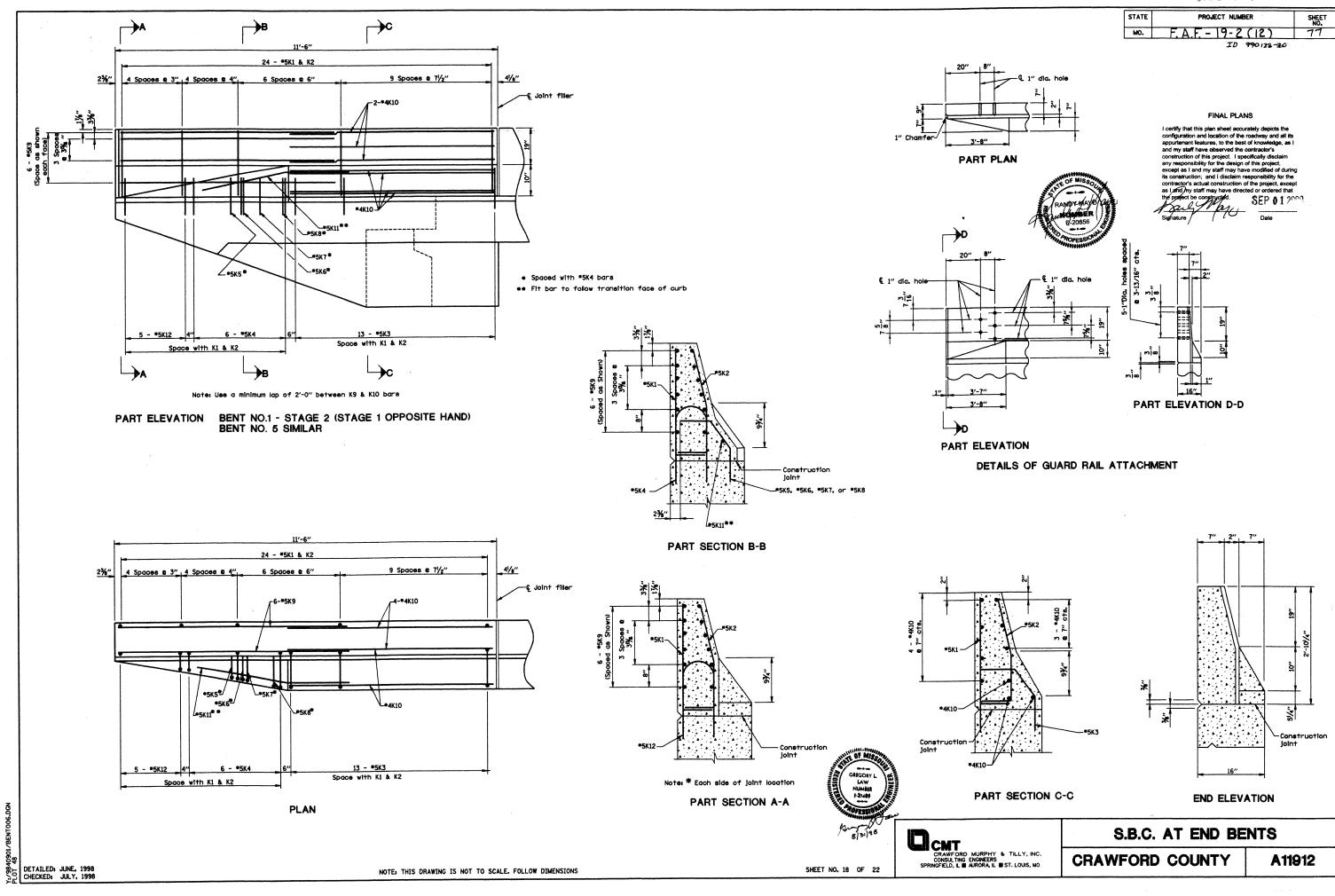
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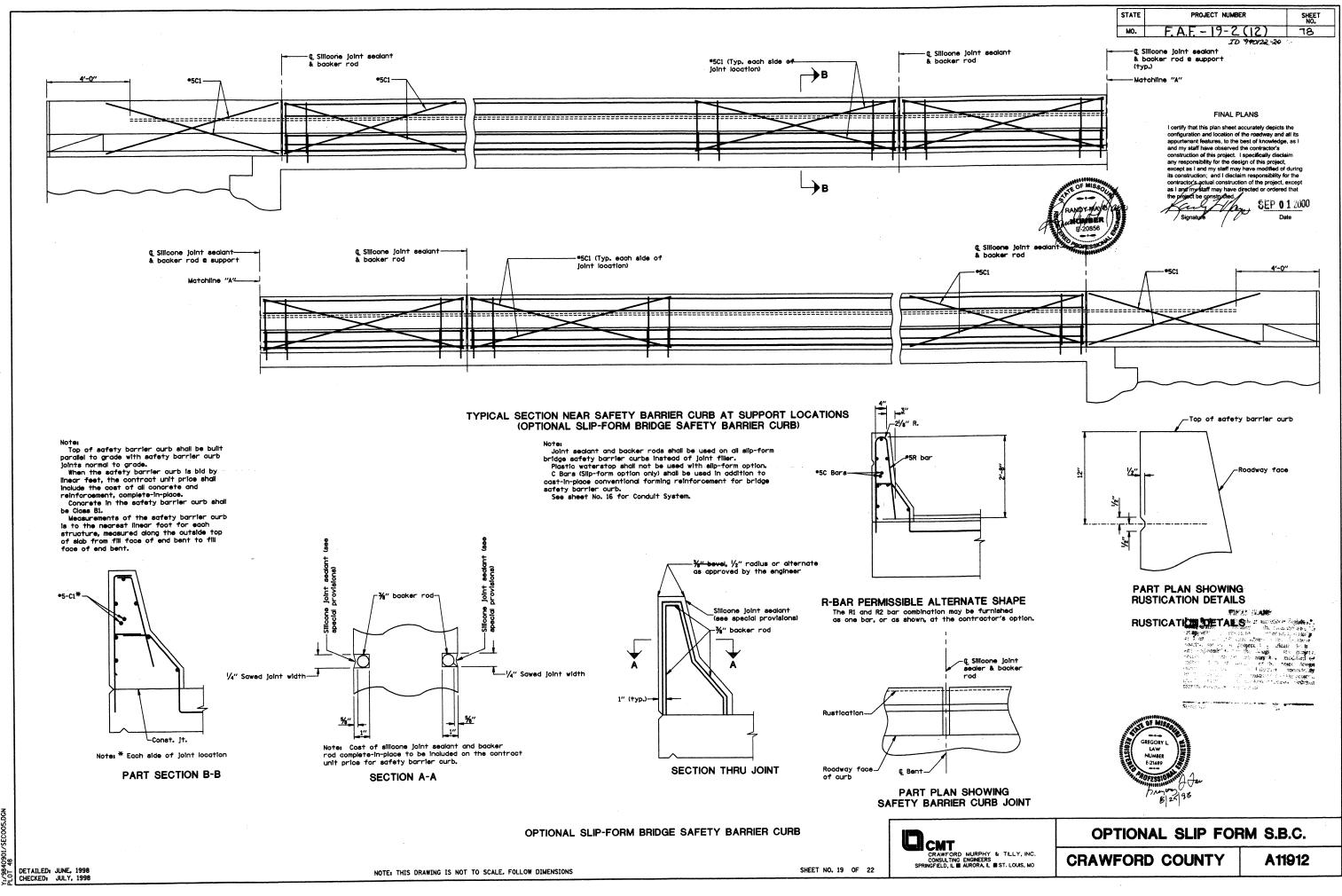
DETAILED: JUNE, 1998 CHECKED: JULY, 1998

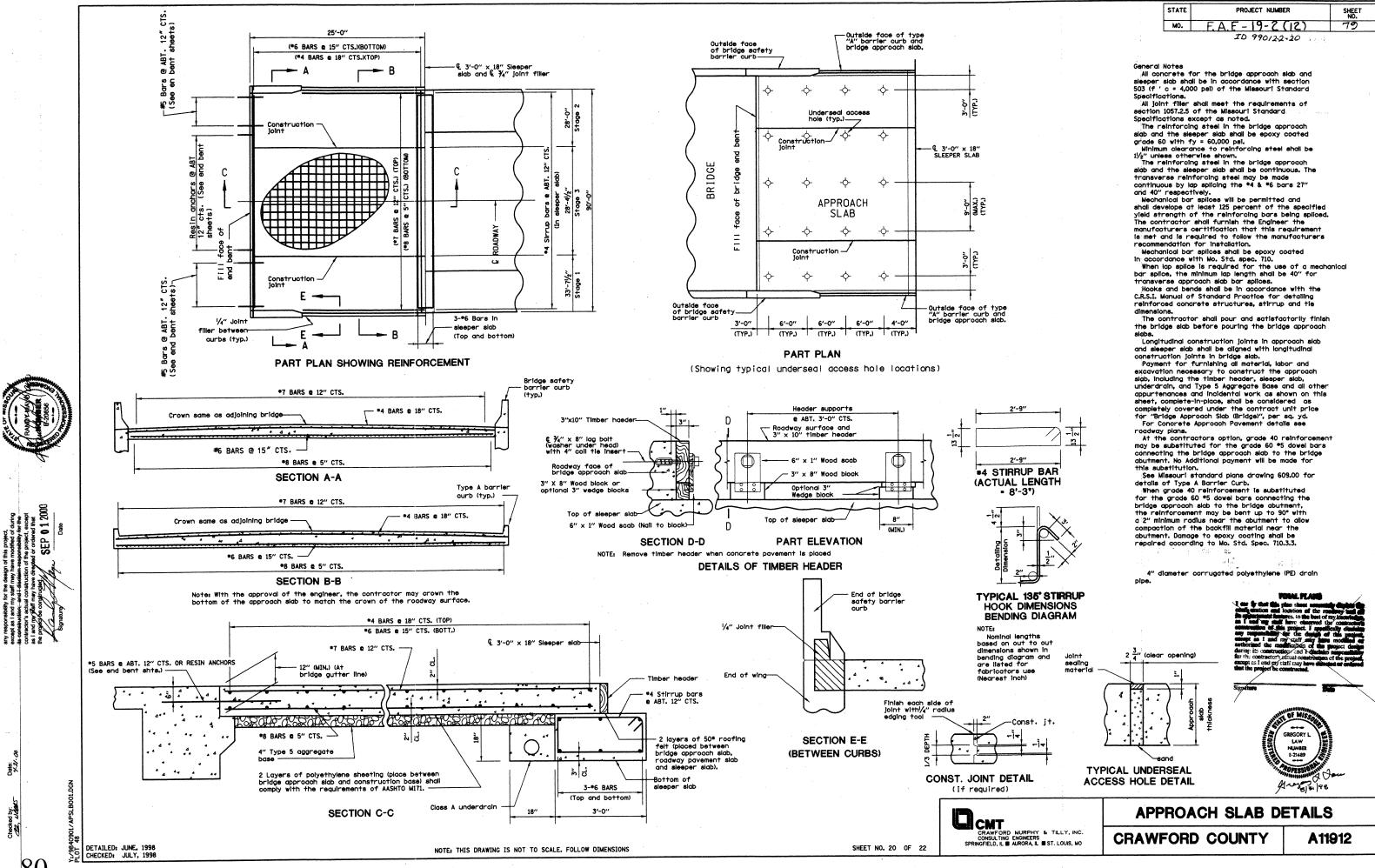
NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS

SHEET NO. 16 OF 22



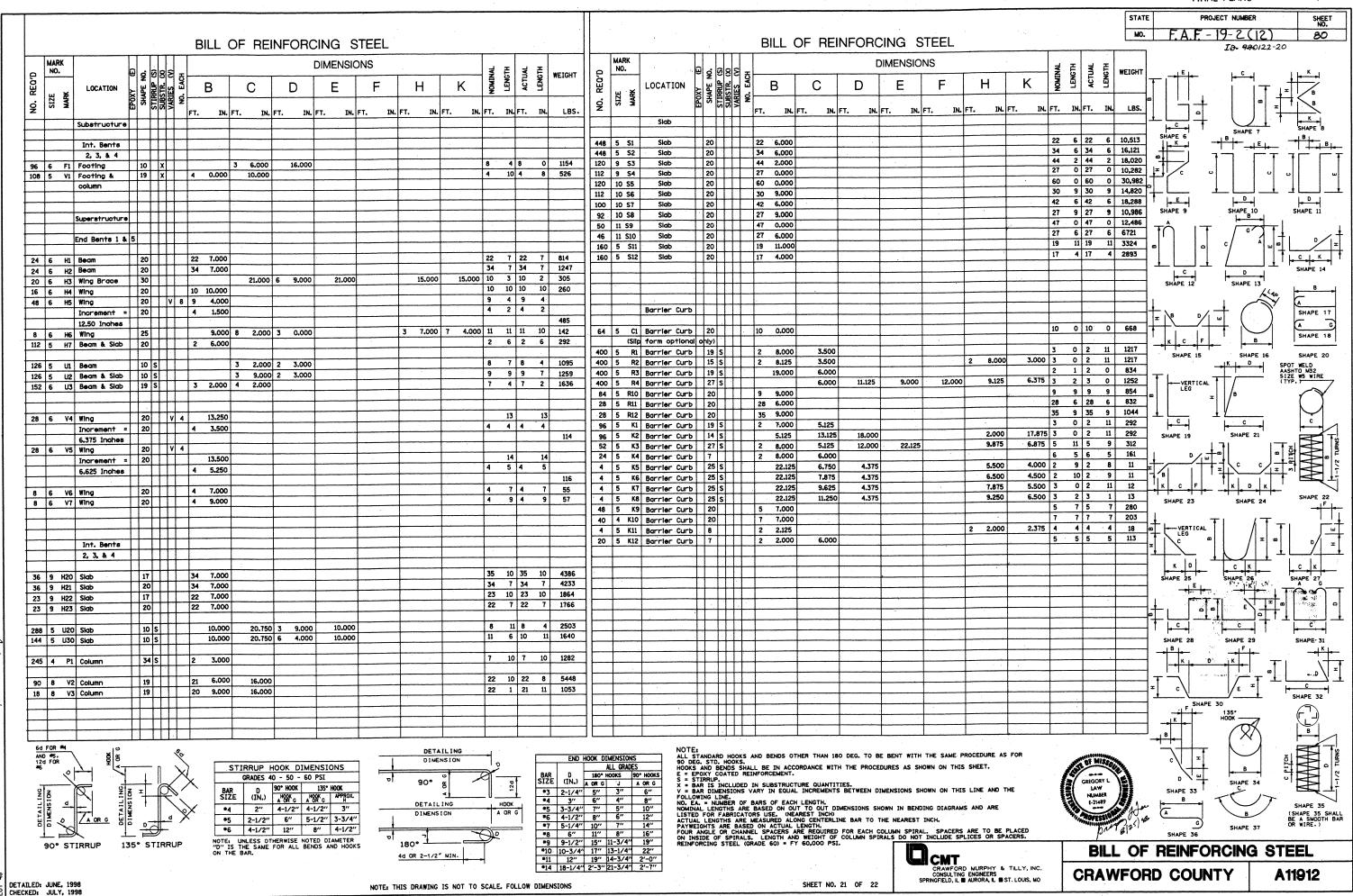






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Date: 7:2/-

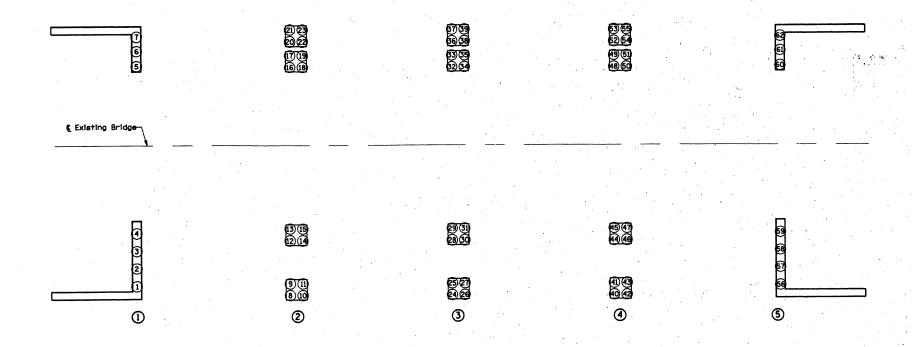


81

on of this project. I specifically disclaim installibly for the deging of this large for content.

I and my staff may have modified of during cucion; and to disclaim responsibility for the special construction of the project, except fiv staff may have directed or ordered that at he construed.

STATE	PROJECT NUMBER	SHEET NO.
MO.	F. A.F 19-2 (12)	81
	ID 990/22-20	



PART PLAN SHOWING PILE NUMBERING FOR RECORDING 'AS BUILT PILE' DATA

emark oolumn ig were driven to practicle refusal

Note: This sheet to be completed by MoDOT construction personnel.



		"AS BUILT	PILE" DATA			"AS BUIL	T PILE" DATA			"AS BUILT	T PILE" DATA
PILE NO.	LENGTH IN PLACE (FT.)	COMPUTED BEARING (TONS)	REMARKS	PILE NO.	LENGTH IN PLACE (FT.)	COMPUTED BEARING (TONS)	REMARKS	PILE NO.	LENGTH IN PLACE (FT.)	COMPUTED BEARING (TONS)	REMARKS
	4.12		END BENT NO. 1				INTERMEDIATE BENT NO. 3				REFUSAL ON ROCK
1	34 /		REFUSAL OU ROCK	24	\13' √		REFUSAL ON ROCK -	47	112' /		11
2	739' 1		и	25	12'		h	48	112' /		"
3	37'		,,	26	111' /		ii .	. 49 .	V12' /		Ч
4	35'		U	27	115, 1		11	50	12'/		11
5	38' '		"	28	115, 1			51	<u> </u>		"
3	36		4	29	13' 1		11- 8' Splice / "	52	\\ 13' <i>/</i>		"
•	35'			30	112' '		"	53	711,		"
			INTERMEDIATE BENT NO. 2	31	15, 1	<u> </u>	"	54	`\13' ✓		"
	/11, /		И	32	18' /		"	55	13'/		END BENT NO. 5
)	11'		· ·	33	\\17' \		"				
)	17'/		1- 8 Splice "	34	16.		'(56 57	V 30' ~		1/
1	17'			35	116'	<u> </u>		58	V 31 -		"
2	18'		"	36	15' /		1- 8' Splice "	59	\\31' -		"
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5	14' /		<u> </u>	39	+ ``'	 	INTERMEDIATE BENT NO. 4	62	\35'		11
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FINAL PLANS

l'oertify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of knowledge, as I and my staff have observed the confractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified of during its construction, and I disclaim responsibility for the contractor's aptual construction of the project, except as I and my staff may have digasted or ordered that the project be constructed.

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our by that this plan sheet accurately deplets the configuration and location of the readings and as its appartment features, to the best of my jumidates as I and sity-staff have observed the contractors onestruction of this project I specifically dischain any responsibility for, the design of the project design and the conditional content of the project design the contractors of the project design that my staff may have discount or ordinary that the project be constructed.

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CRAWFORD MURPHY & TILLY, INC. CONSULTING ENGINEERS SPRINGFIELD, IL & AURORA, IL & ST. LOUIS, MO

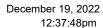
SHEET NO. 22 OF 22

AS-BUILT PILE DATA
CRAWFORD COUNTY

A11912

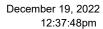
CHECKED: JUNE, 1998

NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS





COUNTY: CRAWFORD A1191 2 REVIEW STATUS: APPROVED P **BRIDGE:** NBI STATUS: 3/8/2022 2021 ROUTE CARRIED 'ON' STRUCT **RECORD TYPE: RUN DATE: SUBMITTAL YEAR:** GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION ROUTE CARRIED 'ON' STRUCT State MISSOURI 5A Record Type MO District 5B CD Route Signing Prefix CRAWFORD MAINLINE County 5C Designated Level of Service 00019 981 8 Federal ID No. 5D Route Number 1966 NOT APPLICABLE 27 5E Year Built Directional Suffix MO 19 S 106 1999 7 Year Reconstructed Facility Carried YES HIGHWAY Type of Service On 12 Base Hwv. Network STATE HIGHWAY AGENCY 000000054 21 Structure Maintenance 13A LRS Inventory Route No. 00 STATE HIGHWAY AGENCY 22 Structure Owner 13B Subroute No. 33 CLOSED MEDIAN(NO BARRIER) Toll Status ON FREE ROAD Br. Median Code 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 NO 110 Designated Nat. Network STRUCTURE LOCATION INFORMATION STRUCTURE TRAFFIC INFORMATION 10290 4 Place CUBA CITY 29 AADT 17668 2021 Code 30 AADT Year 2-WAY TRAFFIC S 30 T 39 N R 4 W Location 102 Direction of Traffic 11 Milepoint 122.60 miles 10% 109 AADT Truck Percent 16 Latitude 38 D 4 M 23 S 15435 114 Future AADT 17 Longitude 91 D 24 M 22 S 2041 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION IS 44 10 99 Ft. 99 In. Features Intersected Inventory Rte. Vert. Clear 42B HIGHWAY 19 11.78 miles Type of Service Under By pass Detour Length 04 28B Lanes Under Structure 32 Approach Roadway Width 89 Ft. 11 In. HIGHWAY 0.00 Degrees 54A Vert. Clearance Ref. 34 Skew 54B Vert. Clearance 35 Struct. Flared 16 Ft. 1 In. Rt. Lat Clear Ref. HIGHWAY Total Horiz. Clear 89 Ft. 11 In. 55A 47 55B Rt. Lat Clearance 10 Ft. 6 In. 48 56 Ft. 1 In. Maximum Span Length 194 Ft. 11 In. Left Lat Clearance 18 Ft. 8 In. 49 Structure Length N/A Navigation Control 50A 0 Ft. 0 In. Left Curb/Sidewalk Width Nav Vertical Clear 0 Ft. 0 In. 39 50B Right Curb/Sidewalk Width 0 Ft. 0 In. 0 Ft. 0 In. Curb to Curb Br. Width 89 Ft. 11 In. 40 Nav Horizontal Clear 51 92 Ft. 10 In. Nav. Pier Protection Deck Width (Out-Out) 111 52 99 Ft. 99 In. Nav. Cl. Vert. Clear 53 Vert.Clearance Over Deck



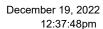


COUNTY: CRAWFORD BRIDGE: A1191 2 REVIEW STATUS: APPROVED NBI STATUS: P

RECORD TYPE: ROUTE CARRIED 'ON' STRUCT RUN DATE: 3/8/2022 SUBMITTAL YEAR: 2021

RECORD TYPE: ROUTE CARRIED ON STRUCT	RUN DATE: 5/6/2022 SUBMITTAL YEAR: 2021
LOAD RATING AND POSTING INFORMATION	MATERIAL/CONSTRUCTION INFORMATION
31 Design Load HS 20 41 Structure Status A - OPEN NO RESTRICTIONS 63 Oper. Rating Meth. LOAD FACTOR 64 Operating Rating 56 Tons. 65 Inventory Rating Meth LOAD FACTOR 66 Inventory Rating 34 Tons. 70 Bridge Posting Code =>LEGAL LOADS PROPOSED IMPROVEMENT INFORMATION Sufficiency Rating 74.1 Percent	43A Main Struc. Mat type CONCRETE CONTINUOUS 43B Main struc Constr. Type SLAB 45 # of Main Spans 4 44A Appr Struc. Mat type 44B Appr Struc. Cnstr. type 46 # of Approach Span 0 107 Deck Mat/Constr. 1 CONCRETE CIP 108A Wear Surf Mat/Constr. 4 LOW SLUMP 108B Membrane Mat/Constr. 0 NONE
Deficiency Rating NOT DEFICIENT	108C Deck Protect Mat/Constr. 7 INTERNALLY SEALED
Funding Eligibility 75A Proposed Work 75B Work Done By 76 New Struc Length 18 Ft. 8 In. 94 Struc Improve Cost \$0,000 95 Roadway Improve Cost \$0,000	CONDITION RATING INFORMATION 58 Deck Cond. Rating 5 59 Superstructure Cond. Rating 5 60 Substructure Cond. Rating 6 61 Channel /Channel Protection Cond. Rating N 62 Culvert Cond. Rating N
96 Total Project Cost \$ 0,000	INSPECTION INFORMATION
97 Year of Cost Estimates 0	90 Gen. Insp Date 9/20
APPRAISAL RATING INFORMATION 36A Br. Rail App. Rating MEETS ACCEPTBLE STND 36B Transition Rail App. Rating MEETS ACCEPTBLE STND 36C Approach Rail App. Rating MEETS ACCEPTBLE STND 36D Rail End Treat. App. Rating MEETS ACCEPTBLE STND 67 Struc Eval App. Rating 5 68 Deck Geometry App. Rating 7 69 Underclearance App. Rating 4 71 Waterway Adeq. App. Rating N 72 Approach Road App. Rating 8 113 Scour Assess App. Rating N APPROVED POSTING INFORMATION	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 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

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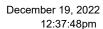


COUNTY: CRAWFORD A1191 2 REVIEW STATUS: APPROVED T **BRIDGE:** NBI STATUS: 1 RTE THAT GOES 'UNDER' S 11/30/2022 2022 **RECORD TYPE:** RUN DATE: **SUBMITTAL YEAR:** GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION State 1 RTE THAT GOES 'UNDER' S Code: A MISSOURI 5A Record Type District 5B CD Route Signing Prefix MAINLINE CRAWFORD County 5C Designated Level of Service 00044 Federal ID No. 981 8 5D Route Number 1966 NOT APPLICABLE 27 Year Built 5E Directional Suffix MO 19 S 106 0 7 Year Reconstructed Facility Carried HIGHWAY Type of Service On 12 Base Hwy. 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 NONE EXISTS 101 28A Parallel Struc Desg 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 14315 4 Place CUBA CITY 29 AADT 17668 2021 Code 30 AADT Year 1-WAY TRAFFIC S 30 T 39 N R 4 W Location 102 Direction of Traffic 11 Milepoint 209.50 miles 35% 109 AADT Truck Percent 38 D 4 M 23 S 16 Latitude 114 Future AADT 17 Longitude 91 D 24 M 22 S 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION IS 44 10 16 Ft. 4 In. Inventory Rte. Vert. Clear Features Intersected 42B HIGHWAY 19 0.00 miles Type of Service Under By pass Detour Length 02 28B Lanes Under Structure 32 Approach Roadway Width 54A Vert. Clearance Ref. 34 Skew 54B Vert. Clearance 35 Struct. Flared Rt. Lat Clear Ref. Total Horiz. Clear 38 Ft. 1 In. 55A 47 55B Rt. Lat Clearance 48 56 Ft. 1 In. Maximum Span Length 194 Ft. 11 In. Left Lat Clearance 49 Structure Length Navigation Control 50A 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



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COUNTY: CRAWFORD A1191 2 REVIEW STATUS: APPROVED T **BRIDGE:** NBI STATUS: 2022 11/30/2022 1 RTE THAT GOES 'UNDER' S **SUBMITTAL YEAR: RECORD TYPE: RUN DATE:** LOAD RATING AND POSTING INFORMATION MATERIAL/CONSTRUCTION INFORMATION 43A Main Struc. Mat type CONCRETE CONTINUOUS Design Load SLAB 41 Structure Status 43B Main struc Constr. Type 63 45 Oper. Rating Meth. # of Main Spans Operating Rating 44A Appr Struc. Mat type 44B Appr Struc. Cnstr. type 65 Inventory Rating Meth 46 # of Approach Span Inventory Rating 70 107 Deck Mat/Constr. Bridge Posting Code 108A Wear Surf Mat/Constr. PROPOSED IMPROVEMENT INFORMATION 108B Membrane Mat/Constr. Sufficiency Rating 108C Deck Protect Mat/Constr. Deficiency Rating CONDITION RATING INFORMATION Funding Eligibility Proposed Work 58 Deck Cond. Rating 75B Work Done By 59 Superstructure Cond. Rating 76 New Struc Length 60 Substructure Cond. Rating 94 Struc Improve Cost 61 Channel / Channel Protection Cond. Rating 95 Roadway Improve Cost 62 Culvert Cond. Rating 96 Total Project Cost INSPECTION INFORMATION Year of Cost Estimates 90 Gen. Insp Date APPRAISAL RATING INFORMATION 91 Gen. Insp. Frequency 36A Br. Rail App. Rating 92A Frac. Critical Inspection 36B 93A Transition Rail App. Rating Frac. Critical Insp. Date 36C 92B Approach Rail App. Rating Underwater Inspection 36D Rail End Treat. App. Rating 93B Underwater Insp. Date 67 Struc Eval App. Rating 92C Special Inspection Deck Geometry App. Rating 93C Special Inspection Date 69 Underclearance App. Rating BORDER BRIDGE INFORMATION 71 Waterway Adeq. App. Rating 98 Neighboring State Code 72 Approach Road App. Rating 98B Neighboring State % Respon 113 Scour Assess App. Rating 99 Neighboring State Struc. No. APPROVED POSTING INFORMATION FIELD POSTING INFORMATION Approved Posting Category Field Posting Category 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





COUNTY: CRAWFORD A1191 2 REVIEW STATUS: APPROVED P **BRIDGE:** NBI STATUS: 2ND RTE THAT GOES 'UNDR'S 3/8/2022 2021 **RECORD TYPE: 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 CD Route Signing Prefix MAINLINE CRAWFORD County 5C Designated Level of Service 00044 Federal ID No. 981 8 5D Route Number 1966 NOT APPLICABLE 27 Year Built 5E Directional Suffix MO 19 S 106 0 Year Reconstructed 7 Facility Carried HIGHWAY Type of Service On 12 Base Hwy. 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 NONE EXISTS 101 28A Parallel Struc Desg 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 13263 4 Place CUBA CITY 29 AADT 17668 2021 Code 30 AADT Year 1-WAY TRAFFIC S 30 T 39 N R 4 W Location 102 Direction of Traffic 11 Milepoint 84.67 miles 35% 109 AADT Truck Percent 16 Latitude 38 D 4 M 23 S 114 Future AADT 17 Longitude 91 D 24 M 22 S 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION IS 44 10 16 Ft. 1 In. Inventory Rte. Vert. Clear Features Intersected 42B HIGHWAY 19 0.00 miles Type of Service Under By pass Detour Length 02 28B Lanes Under Structure 32 Approach Roadway Width 54A Vert. Clearance Ref. 34 Skew 54B Vert. Clearance 35 Struct. Flared Rt. Lat Clear Ref. Total Horiz. Clear 38 Ft. 1 In. 55A 47 55B Rt. Lat Clearance 48 56 Ft. 1 In. Maximum Span Length 194 Ft. 11 In. Left Lat Clearance 49 Structure Length Navigation Control 50A 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: CRAWFORD

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

REVIEW STATUS: APPROVED

A1191 2

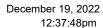
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NBI STATUS:

3/8/2022 2021 2ND RTE THAT GOES 'UNDR'S **SUBMITTAL YEAR: RECORD TYPE: RUN DATE:** LOAD RATING AND POSTING INFORMATION MATERIAL/CONSTRUCTION INFORMATION 43A Main Struc. Mat type CONCRETE CONTINUOUS Design Load SLAB 41 Structure Status 43B Main struc Constr. Type 63 45 Oper. Rating Meth. # of Main Spans Operating Rating 44A Appr Struc. Mat type 44B Appr Struc. Cnstr. type 65 Inventory Rating Meth 46 # of Approach Span Inventory Rating 70 107 Deck Mat/Constr. Bridge Posting Code 108A Wear Surf Mat/Constr. PROPOSED IMPROVEMENT INFORMATION 108B Membrane Mat/Constr. Sufficiency Rating 108C Deck Protect Mat/Constr. Deficiency Rating CONDITION RATING INFORMATION Funding Eligibility Proposed Work 58 Deck Cond. Rating 75B Work Done By 59 Superstructure Cond. Rating 76 New Struc Length 60 Substructure Cond. Rating 94 Struc Improve Cost 61 Channel / Channel Protection Cond. Rating 95 Roadway Improve Cost 62 Culvert Cond. Rating 96 Total Project Cost INSPECTION INFORMATION Year of Cost Estimates 90 Gen. Insp Date APPRAISAL RATING INFORMATION 91 Gen. Insp. Frequency 36A Br. Rail App. Rating 92A Frac. Critical Inspection 36B 93A Transition Rail App. Rating Frac. Critical Insp. Date 36C 92B Approach Rail App. Rating Underwater Inspection 36D Rail End Treat. App. Rating 93B Underwater Insp. Date 67 Struc Eval App. Rating 92C Special Inspection Deck Geometry App. Rating 93C Special Inspection Date 69 Underclearance App. Rating BORDER BRIDGE INFORMATION 71 Waterway Adeq. App. Rating 98 Neighboring State Code 72 Approach Road App. Rating 98B Neighboring State % Respon 113 Scour Assess App. Rating 99 Neighboring State Struc. No. APPROVED POSTING INFORMATION FIELD POSTING INFORMATION Approved Posting Category Field Posting Category 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





COUNTY: CRAWFORD A1191 2 REVIEW STATUS: APPROVED T **BRIDGE:** NBI STATUS: 2ND RTE THAT GOES 'UNDR'S 11/30/2022 2022 **RECORD TYPE: RUN DATE: SUBMITTAL YEAR:** GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION State 2ND RTE THAT GOES 'UNDR'S Code: B MISSOURI 5A Record Type District 5B CD Route Signing Prefix MAINLINE CRAWFORD County 5C Designated Level of Service 00044 Federal ID No. 981 8 5D Route Number 1966 NOT APPLICABLE 27 Year Built 5E Directional Suffix MO 19 S 106 0 7 Year Reconstructed Facility Carried HIGHWAY Type of Service On 12 Base Hwy. 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 NONE EXISTS 101 28A Parallel Struc Desg 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 13263 4 Place CUBA CITY 29 AADT 17668 2021 Code 30 AADT Year 1-WAY TRAFFIC S 30 T 39 N R 4 W Location 102 Direction of Traffic 11 Milepoint 85.35 miles 35% 109 AADT Truck Percent 16 Latitude 38 D 4 M 23 S 114 Future AADT 17 Longitude 91 D 24 M 22 S 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION IS 44 10 16 Ft. 1 In. Inventory Rte. Vert. Clear Features Intersected 42B HIGHWAY 19 0.00 miles Type of Service Under By pass Detour Length 02 28B Lanes Under Structure 32 Approach Roadway Width 54A Vert. Clearance Ref. 34 Skew 54B Vert. Clearance 35 Struct. Flared Rt. Lat Clear Ref. Total Horiz. Clear 38 Ft. 1 In. 55A 47 55B Rt. Lat Clearance 48 56 Ft. 1 In. Maximum Span Length 194 Ft. 11 In. Left Lat Clearance 49 Structure Length Navigation Control 50A 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: CRAWFORD

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

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A1191 2

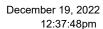
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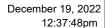


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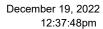
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COUNTY: CRAWFORD A1191 2 REVIEW STATUS: APPROVED P **BRIDGE:** NBI STATUS: 3/8/2022 2021 1 RTE THAT GOES 'UNDER' S **SUBMITTAL YEAR: RECORD TYPE: RUN DATE:** LOAD RATING AND POSTING INFORMATION MATERIAL/CONSTRUCTION INFORMATION 43A Main Struc. Mat type CONCRETE CONTINUOUS Design Load SLAB 41 Structure Status 43B Main struc Constr. Type 63 45 Oper. Rating Meth. # of Main Spans Operating Rating 44A Appr Struc. Mat type 44B Appr Struc. Cnstr. type 65 Inventory Rating Meth 46 # of Approach Span Inventory Rating 70 107 Deck Mat/Constr. Bridge Posting Code 108A Wear Surf Mat/Constr. PROPOSED IMPROVEMENT INFORMATION 108B Membrane Mat/Constr. Sufficiency Rating 108C Deck Protect Mat/Constr. Deficiency Rating CONDITION RATING INFORMATION Funding Eligibility Proposed Work 58 Deck Cond. Rating 75B Work Done By 59 Superstructure Cond. Rating 76 New Struc Length 60 Substructure Cond. Rating 94 Struc Improve Cost 61 Channel / Channel Protection Cond. Rating 95 Roadway Improve Cost 62 Culvert Cond. Rating 96 Total Project Cost INSPECTION INFORMATION Year of Cost Estimates 90 Gen. Insp Date APPRAISAL RATING INFORMATION 91 Gen. Insp. Frequency 36A Br. Rail App. Rating 92A Frac. Critical Inspection 36B 93A Transition Rail App. Rating Frac. Critical Insp. Date 36C 92B Approach Rail App. Rating Underwater Inspection 36D Rail End Treat. App. Rating 93B Underwater Insp. Date 67 Struc Eval App. Rating 92C Special Inspection Deck Geometry App. Rating 93C Special Inspection Date 69 Underclearance App. Rating BORDER BRIDGE INFORMATION 71 Waterway Adeq. App. Rating 98 Neighboring State Code 72 Approach Road App. Rating 98B Neighboring State % Respon 113 Scour Assess App. Rating 99 Neighboring State Struc. No. APPROVED POSTING INFORMATION FIELD POSTING INFORMATION Approved Posting Category Field Posting Category 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





COUNTY: CRAWFORD A1191 2 REVIEW STATUS: APPROVED T **BRIDGE:** NBI STATUS: 11/30/2022 2022 ROUTE CARRIED 'ON' STRUCT **RECORD TYPE: RUN DATE: SUBMITTAL YEAR:** GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION ROUTE CARRIED 'ON' STRUCT State MISSOURI 5A Record Type MO District 5B CD Route Signing Prefix CRAWFORD MAINLINE County 5C Designated Level of Service 00019 981 8 Federal ID No. 5D Route Number 1966 NOT APPLICABLE 27 5E Year Built Directional Suffix MO 19 S 106 1999 7 Year Reconstructed Facility Carried YES HIGHWAY Type of Service On 12 Base Hwv. Network STATE HIGHWAY AGENCY 000000054 21 Structure Maintenance 13A LRS Inventory Route No. 00 STATE HIGHWAY AGENCY 22 Structure Owner 13B Subroute No. 33 CLOSED MEDIAN(NO BARRIER) Toll Status ON FREE ROAD Br. Median Code 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 NO 110 Designated Nat. Network STRUCTURE LOCATION INFORMATION STRUCTURE TRAFFIC INFORMATION 10290 4 Place CUBA CITY 29 AADT 17668 2021 Code 30 AADT Year 2-WAY TRAFFIC S 30 T 39 N R 4 W Location 102 Direction of Traffic 11 Milepoint 123.59 miles 10% 109 AADT Truck Percent 16 Latitude 38 D 4 M 23 S 15435 114 Future AADT 17 Longitude 91 D 24 M 22 S 2041 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION IS 44 10 99 Ft. 99 In. Features Intersected Inventory Rte. Vert. Clear 42B HIGHWAY 19 11.88 miles Type of Service Under By pass Detour Length 04 28B Lanes Under Structure 32 Approach Roadway Width 89 Ft. 11 In. HIGHWAY 0.00 Degrees 54A Vert. Clearance Ref. 34 Skew 54B Vert. Clearance 35 Struct. Flared 16 Ft. 1 In. Rt. Lat Clear Ref. HIGHWAY Total Horiz. Clear 89 Ft. 11 In. 55A 47 55B Rt. Lat Clearance 10 Ft. 6 In. 48 56 Ft. 1 In. Maximum Span Length 194 Ft. 11 In. Left Lat Clearance 18 Ft. 8 In. 49 Structure Length N/A Navigation Control 50A 0 Ft. 0 In. Left Curb/Sidewalk Width Nav Vertical Clear 0 Ft. 0 In. 39 50B Right Curb/Sidewalk Width 0 Ft. 0 In. 0 Ft. 0 In. Curb to Curb Br. Width 89 Ft. 11 In. 40 Nav Horizontal Clear 51 92 Ft. 10 In. Nav. Pier Protection Deck Width (Out-Out) 111 52 99 Ft. 99 In. Nav. Cl. Vert. Clear 53 Vert.Clearance Over Deck





COUNTY: CRAWFORD BRIDGE: A1191 2 REVIEW STATUS: APPROVED NBI STATUS: T

RECORD TYPE: ROUTE CARRIED 'ON' STRUCT RUN DATE: 11/30/2022 SUBMITTAL YEAR: 2022

RECORD TYPE: ROUTE CARRIED ON STRUCT	RUN DATE: 11/30/2022 SUBMITTAL TEAR: 2022
LOAD RATING AND POSTING INFORMATION	MATERIAL/CONSTRUCTION INFORMATION
31 Design Load HS 20 41 Structure Status OPEN NO RESTRICTIONS 63 Oper. Rating Meth. LOAD FACTOR 64 Operating Rating 56 Tons. 65 Inventory Rating Meth LOAD FACTOR 66 Inventory Rating 34 Tons. 70 Bridge Posting Code =>LEGAL LOADS PROPOSED IMPROVEMENT INFORMATION Sufficiency Rating 74.1 Percent	43A Main Struc. Mat type CONCRETE CONTINUOUS 43B Main struc Constr. Type SLAB 45 # of Main Spans 4 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. 4 LOW SLUMP 108B Membrane Mat/Constr. 0 NONE
Deficiency Rating NOT DEFICIENT	108C Deck Protect Mat/Constr. 7 INTERNALLY SEALED
Funding Eligibility 75A Proposed Work 75B Work Done By 76 New Struc Length 0 Ft. 0 In. 94 Struc Improve Cost \$ 0,000 95 Roadway Improve Cost \$ 0,000	CONDITION RATING INFORMATION 58 Deck Cond. Rating 5 59 Superstructure Cond. Rating 5 60 Substructure Cond. Rating 6 61 Channel /Channel Protection Cond. Rating N 62 Culvert Cond. Rating N
96 Total Project Cost \$ 0,000	INSPECTION INFORMATION
97 Year of Cost Estimates 0	90 Gen. Insp Date 5/22
APPRAISAL RATING INFORMATION 36A Br. Rail App. Rating MEETS ACCEPTBLE STND 36B Transition Rail App. Rating MEETS ACCEPTBLE STND 36C Approach Rail App. Rating MEETS ACCEPTBLE STND 36D Rail End Treat. App. Rating MEETS ACCEPTBLE STND 67 Struc Eval App. Rating 5 68 Deck Geometry App. Rating 7 69 Underclearance App. Rating 4 71 Waterway Adeq. App. Rating N 72 Approach Road App. Rating 8 113 Scour Assess App. Rating N APPROVED POSTING INFORMATION	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 Category S-1	Field Posting Category S-1
Ton1 Ton2 Ton3 Tonnage Values for Posting Sign General Text for Posting Sign NO POSTING REQUIRED	Ton1 Ton2 Ton3 Tonnage Values for Posting Sign General Text for Posting Sign NO POSTING REQUIRED

Design_No = a1191

Bridge Number: A-1191R2

ACM Pr	esent?
Yes:	No: X
If yes, see report	for location(s).
*	
Structural Ste	eel Present?
Yes:	No: X
	If No, then skip the following
LBP Pre	esent?
Yes:	No:
Trusses LBP?	Girder LBP?
Yes: No:	Yes: No:
Railing LBP?	Pile LBP?
Yes: No:	Yes: No:

MEMORANDUM



Missouri Department of Transportation Construction and Materials Central Laboratory

TO:

TMS

FROM:

Diane Roegge WWW UG

Environmental Chemist

DATE:

August 11, 2015

SUBJECT:

Materials

Asbestos Inspection & Heavy Metal Paint Survey

Route 19

Bridge A-1191R2 Crawford County

We are providing you with the results of the inspection on the above referenced bridge. The inspection report contains an asbestos and a heavy metals survey. The asbestos inspection included identifying suspect asbestos-containing material and NVLAP accredited testing to confirm the presence of asbestos.

Form T746 – This will show if samples were taken, where from, and, if the sample was found to contain asbestos, our estimated quantity of material present. Under the column "Friability Category" this is the meaning for the following:

N-ACM – No asbestos detected.

I NF – Asbestos is present. Material shall be handled carefully by a licensed abatement worker and kept wet if removing as part of a maintenance activity.

II NF – Asbestos is present. If removal is required for the maintenance activity, use an abatement contractor.

In accordance with Missouri Department of Natural Resources' Technical Bulletin "Managing Construction and Demolition Waste" dated January 31, 2003, a heavy metal paint survey has been performed on the above referenced bridge. This survey includes locating concrete which has been painted with something other than traffic paint or graffiti, and testing the painted surface(s) to determine if hazardous heavy metals are present. If the bridge is being removed completely, or the maintenance repairs include removing the painted concrete, then, non-hazardous painted concrete may be used as clean fill materials, if properly handled. You must contact the Central Office Design Division for proper handling of the reported painted surfaces.

Although our survey included observing and sampling all accessible areas, it is possible that potentially hidden asbestos-containing materials may exist within the structure. Should you have any questions regarding these reports, please contact me at (573) 526-4359.

db/fr/dr

 $http://sp/sites/cm/chemicallab/environmental/shared\ documents/asbestos/districts/central\ (cd)/mt/bridge\ a-1191r2/dr1508114.docx$

Attachments

MISSOURI DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS

Asbestos Survey Report
All Suspect ACM

	ū		**************************************	×	
MODOT TOR NO:	N/A	CERTIFICATION #:	7118110514MOIR11239, F.R.		
DISTRICT:	CC	CERTIFICATION #:	7118110514MOIR7165, D.R.		
OUNTY:	Crawford	SITE ADDRESS:	Over I-44, Exit #208, Cuba		
DATE OF SURVEY:		TYPE(S) OF STRUCTURE(S): Bridge	Bridge		
PARCEL NO.:					
Sample ID	Type of Materials	Location of Material	f Material	Friability Category	Field Measure
	No samples taken. No suspect ACM located.				
	Bridge Paint is not a suspect ACM per MSDS's				
	on file.				
	0				
j.					

MISSOURI DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS

Asbestos Survey Report

(Abstement not required if not made frieble during demolition)
--

MODOT JOB NO.: DISTRICT: COUNTY: DATE OF TESTS: PARCEL NO.: Sample ID	N/A CC Crawford N/A Bridge A-1191R2 Type of Material	TESTED BY: CERTIFICATION #: CERTIFICATION #: SITE ADDRESS: TYPE(S) OF STRUCTURE(S): Location of Material None Located	Frank Reichart and Diane Roegge 7118110514MOIR11239, F.R. 7118110514MOIR7165, D.R. Over I-44, Exit #208, Cuba Bridge Friability Category INF INF	Roegge F.R. D.R. Measure
ple ID	Type of Material	Location of Material None Located	Friability Category I NF	
		1		
	1.0			
			Ð	
			*	

All necessary work to handle this material is the contractor's responsibility.

MISSOURI DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS

Asbestos Survey Report
All materials requiring removal or special handling.

OUTE:	19	TESTED BY:	Frank Reichart and Diane Roegge	ne Roegge		
1ODOT JOB NO.:	N/A	CERTIFICATION #:	7118110514MOIR11239, F.R.	9, F.R.		
ISTRICT:	CC	CERTIFICATION #:	7118110514MOIR7165, D.R.	, D.R.		
OUNTY:	Crawford	SITE ADDRESS:	Over I-44, Exit #208, Cuba	uba		
ATE OF TESTS:	N/A	TYPE(S) OF STRUCTURE(S):	Bridge			
ARCEL NO.:	Bridge A-1191R2					
Bid Sample ID	Type of Material	Location of Material	Friability Category	Field Measure	Asbestos Type	Percen
		None Located	Ŧ			
		None Located	II NF			
	80					
			35.			

MISSOURI DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS

Metals Survey Report of Painted Concrete, Block, Brick Surfaces for Clean Fill Purposes

ROUTE:		TESTED BY:	Y:	7	N/A				
MODOT JOB NO .:	N/A	DATE OF TESTS:	TESTS:	71	N/A				
DISTRICT:	CC	PARCEL NO.:	Ö.:	шI	Bridge A-1191R2	R2			
COUNTY:	Crawford (N	SITE ADDRESS:	RESS:	ol	Over I-44, Exit #208, Cuba	#208, Cuba			
SURVEYED BY:		TYPE(S) O	TYPE(S) OF STRUCTURE(S): Bridge	$URE(S): \overline{B}$	ridge				
DATE OF SURVEY:				1 1					
					Me	Metals			
					10)	(ppm)			
1									
Sample ID	Color/Location of Material/Substrate	As	Ç	Pb	S	Se	Ba	Hg	Αg
17	No samples taken. No painted surfaces located.								
									2111
							7.4		





MoDOT

Missouri Department of Transportation State Bridge Inspection Report

December 19, 2022 1:35:34PM

COUNTY: CRAWFORD DISTRICT: CD CLASS: STATBR FED-ID: 982 BRIDGE: A1192

GENERAL STRUCTURE INFORMATION ***BRIDGE INSPECTION INFORMATION*** **ROUTE: RTHE** # **SPANS**: 4 PLACE CODE: 04618 BENTON **DATE:** 05/11/2022 **RESPONSIBILITY: DISTRICT FEATURE: IS 44** LANES ON: 2 LENGTH: 223 FT 0 IN FREQUENCY: 24 **CALCULATED INTERVAL**: 20 LANES UNDER: 4** STATUS: A-OPEN MAXIMUM SPAN: 58 FT 0 IN **TEAM LEADER: MICHAEL MEYERHOFF ELEMENT: NO LOG MILE: 0.057 COMPASS DIRECTION: NORTH to SOUTH** APPROACH ROADWAY: 38 FT 0 IN **INSPECTOR 2:** JOE GREEN **INSPECTOR 4: DETOUR:** 26.00 MILES **DIRECTION OF TRAFFIC: 2-WAY TRAF** CURB TO CURB: 28 FT 0 IN **INSPECTOR 3:** NHS: NO FUNCTIONAL CLASS: RL-MAJOR COLLECTOR **OUT TO OUT:** 30 FT 10 IN ** When calculated interval exceeds the frequency, a justification comment per BIRM is required. **BUILT:** 1966 **NBI OWNER: MODOT AADT: 2254 GENERAL INSPECTION COMMENTS REHAB:** 1984 **NBI MAINTAINED: MODOT** AADT YEAR: 2021 MAINTENANCE DISTRICT: CD LOCATION: S 12 T 39 R 4 W **AADT TRUCK: 4.5% LATITUDE:** 38 7 11.90 (DMS) **MAINTENANCE COUNTY: CRAWFORD FUTURE AADT: 3156 LONGITUDE:** 91 18 52.13 (DMS) SUB AREA: 7D17 **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*** **CATEGORY: CATEGORY:** DATE: **DATE: RESPONSIBILITY: RESPONSIBILITY:** FREOUENCY: FREOUENCY: **CALCULATED INTERVAL**: NBI**: 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. 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**

MoDOT

Missouri Department of Transportation State Bridge Inspection Report

December 19, 2022 1:35:34PM

COUNTY: CRAWFORD

DISTRICT: CD

CLASS: STATBR

FED-ID: 982

BRIDGE: A1192

	JISTRICT: CD	CLASS, STATER	TED		
		STRU	CTURE POSTING		
APPROVED CATEGORY: S-1 NO POSTING RI	EQUIRED				
Ton 1: Ton 2:		Ton 3:			
COMMENTS:					
FIELD CATEGORY: S-1 NO POSTING R	EOUIRED				
Ton 1: Ton 2:		Ton 3:	PROBLEM:	PROBLEM DIRECTION:	
COMMENTS:					
	*	**GENERAL COMN	IENTS/MAJOR RATEI	O ITEMS***	
GENERAL COMMENTS: (BOWDEJ1, 08/28/2008)(52'-58'-58'-52'	') CONT VOIDED CONC SLAB SP	ANS (COLLISION BT 3 V	WEST COL. (FIRE) 2004)		
[ITEM 58] DECK: 6-SATISFACTORY CON	NDITION COMMENT	S: (TRAMPA, 10/27/2016)	CRACK LE DETER		
RATING: 05/18/2001		(RAITHK, 11/11/2020)			
[ITEM 59] SUPER: 6-SATISFACTORY CON	NDITION COMMENT	S: (TRAMPA, 10/27/2016)	EDGE AND SLAB CRACK	S WITH LIGHT TO MODERATE EFFORESCENCE THROUGHOUT; D	ETER
RATING: 05/18/2001					
[ITEM 60] SUB: 6-SATISFACTORY CON	NDITION COMMENT	S: (TRAMPA, 10/27/2016)	V AND H CRACKS ON CO	LUMNS AND ABUTMENTS; SOME DELAM;	
RATING: 05/18/2001		, , , , ,		,	
[ITEM 61] BANK/CHANNEL: N-NOT APPLIC NO WA	ATRWAY COMMENT	S:			
RATING : 05/18/2001					
[ITEM 113] SCOUR: N-NOT APPLIC NOT W	/ATERW COMMENT	S:			
RATING: 05/18/2001		~ ·			
EVALUATION TYPE :					
[ITEM 71] WATERWAY ADEQUACY: NOT APPLICABLE	COMMENT	<u>S•</u>			
RATING: 05/18/2001		~ ·			
[ITEM 72] APPRRDWY ALIGNMENT: 8-VERYGOOD	COMMENT	S:			
RATING : 05/18/2001					
	RAILING	AND APPROACH PA	AVEMENT COMPONE	NTS AND RATINGS	
[ITEM 36A] BRIDGE RAILING RATING: DOESNT MEET C		RATING : 02/09/2007	COMMENTS:		
MATERIAL CONSTRUCTION		<u>COMMENTS</u>			
REINFORCED CONCRETE PARAPET	ВОТН	COMMENTS			
REINFORCED CONCRETE CURB	ВОТН				
ALUMINUM CIRCULAR TUBE	ВОТН				
The state of the s					
[ITEM 36B] TRANSITION RAILING RATING: DOESN'T MEET C	URRNT STND-0	RATING : 02/09/2007	COMMENTS:		
<u>MATERIAL</u> <u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>			
GALVANIZED STEEL W-BEAM	ALL				
[ITEM 36C] APPROACH RAILING RATING: MEETS CURRENT	T STANDARDS-1	RATING: 05/18/2001	COMMENTS:		
Decision No 1102					

December 19, 2022 1:35:34PM

Missouri Department of Transportation State Bridge Inspection Report

COUNTY: CRAWFORD DISTRICT: CD CLASS: STATBR FED-ID: 982 BRIDGE: A1192

CONSTRUCTION DIRECTION **COMMENTS** MATERIAL **GALVANIZED STEEL** W-BEAM ALL

[ITEM 36D] RAIL END TREATMENT RATING: DOESN'T MEET CURRN'T STND-0 **RATING:** 02/09/2007 **COMMENTS:**

MATERIAL **CONSTRUCTION DIRECTION COMMENTS**

GALVANIZED STEEL TURN DOWN SECTION > 45 BOTH S.W. (RAITHK, 02/19/2019)--SW AND NE ONTO RAMP

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

CONSTRUCTION DIRECTION CONDITION* COMMENTS MATERIAL FAIR

ASPHALT BITUMINOUS MAT BOTH

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

DECK PROTECTIVE COMPONENTS: COMPONENT OVERALL CONDITION SERIES TYPE-# **MATERIAL CONSTRUCTION THICKNESS** YEAR APPLIED **MANUFACTURE** MAIN SERIES-1 WEARING SURFACE PLAIN CONCRETE LOW SLUMP 2.2 IN **FAIR**

COMMENT:

MODOT

CONDITION LOCATION 1 LOCATION 2 **SEVERITY COMMENT**

RANDOM (MADSEJ, 09/09/2014)--SPAN 2 **DEBONDING** MINOR

MINOR **DEBONDING EDGE** MAP CRACKS **THROUGHOUT MANY PATCHES EDGE FEW**

DECK PROTECTION LIQUID SEALANT INTERNALLY SEALED 2022 **SILANE**

COMMENT:

MEMBRANE LIQUID SEALANT BUILT-UP

COMMENT:

DRAINAGE COMPONENTS:

COMPONENT MATERIAL **CONSTRUCTION DIRECTION COMMENTS**

EXPANSION DEVICE COMPONENTS:

SUB UNIT-# SUB LABEL **COMPONENT MATERIAL CONSTRUCTION** GAPYEAR APPLIED **MANUFACTURE OVERALL CONDITION**

COMMENT:

BANK/SLOPE PROTECTION COMPONENTS:

COMPONENT MATERIAL CONSTRUCTION DIRECTION COMMENTS

SLOPE PROTECTION EARTH FILL **BERM** BOTH

CONDITION LOCATION 1 LOCATION 2 **SEVERITY COMMENT ERODING THROUGHOUT** MINOR

DECK COMPONENTS

SPAN TYPE-# **COMPONENT MATERIAL CONSTRUCTION COMMENTS**

MAIN SPANS-1 DECKREINFORCED CONCRETE CAST-IN-PLACE

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

DELAMINATION RANDOM LARGE 10 %

Design No = a1192

December 19, 2022 1:35:34PM

Missouri Department of Transportation State Bridge Inspection Report

State Bridge Inspection Report

COUNTY: CRAWFORDDISTRICT: CDCLASS: STATBRFED-ID: 982BRIDGE: A1192LONGITUDINAL CRACKS
TRANSVERSE CRACKSRANDOMMANY
MANY

MAIN SPANS-2 DECK REINFORCED CONCRETE CAST-IN-PLACE

CONDITIONLOCATION 1LOCATION 2SEVERITYMEASUREMENTCOMMENTDELAMINATIONOVER INTERMEDIATE BENTLARGE15 %DIGITUDINAL CRACKSRANDOMFEW

LONGITUDINAL CRACKSRANDOMFEWTRANSVERSE CRACKSRANDOMFEW

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

CONDITIONLOCATION 1LOCATION 2SEVERITYMEASUREMENTCOMMENTDELAMINATIONRANDOMFEW15 %LONGITUDINAL CRACKSRANDOMFEW

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

RANDOM

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

NO

LOCATION 2

DELAMINATIONOVER INTERMEDIATE BENTFEWLONGITUDINAL CRACKSRANDOMFEWTRANSVERSE CRACKSRANDOMFEW

52 FT 0 IN

LOCATION 1

			***	SUPERSTRUCT	URE COMP	ONENTS***	
SERIES TYPE-#	SPAN TYPE	MATE	ERIAL	CONSTRUCTION		<u>LABEL</u>	<u>COMMENTS</u>
MAIN SERIES-1	CONTINUOUS SPAN	REINFORCEI	O CONCRETE	VOIDED SLAB			
<u>SPAN</u>	COMPOSITE INDICATOR	LENGTH	WEATHERING STEEL	COMMENTS			
MAIN SPANS-1	NON-COMPOSITE	52 FT 0 IN	NO				
<u>CONDITIO</u>			<u>LOCATION 2</u>		EVERITY	<u>MEASUREMENT</u>	<u>COMMENT</u>
DETERIORAT		GE			MINOR		
DETERIORAT		DS			MINOR		
DIAGONAL CR		DS			FEW		
LEACHING	G BOT	TOM		N	MINOR		(MADSEJ, 09/09/2014)A FEW VOID DRAINS
TRANSVERSE C	PRACKS RAN	DOM			FEW		(RAITHK, 11/11/2020)ALONG THE ENDS
MAIN SPANS-2 <u>CONDITIO</u>			NO <i>Location</i> 2		EVERITY	<u>MEASUREMENT</u>	<u>COMMENT</u>
DETERIORAT LEACHING TRANSVERSE C	G BOT			N	DDERATE MINOR FEW		(MADSEJ, 09/09/2014)A FEW VOID DRAINS
MAIN SPANS-3 <u>CONDITIO</u> DETERIORAT FIRE DAMA LEACHING	TION ED	GE GE	NO <i>Location 2</i>	MC	EVERITY MINOR DDERATE MINOR	<u>MEASUREMENT</u>	<u>COMMENT</u> (GREENA2, 05/12/2022)6'X10' SPALL (MADSEJ, 09/09/2014)A FEW VOID DRAINS

FEW

Design No = a1192

MAIN SPANS-4

CONDITION

NON-COMPOSITE

MODOT

TRANSVERSE CRACKS

SEVERITY

MEASUREMENT

COMMENT

Missouri Department of Transportation State Bridge Inspection Report

COUNTY: CRAWFORD DISTRICT: CD CLASS: STATBR FED-ID: 982 BRIDGE: A1192

DETERIORATION EDGE
LEACHING BOTTOM
TRANSVERSE CRACKS BOTTOM

MODOT

MINOR MINOR FEW (RAITHK, 11/11/2020)--MOD EDGE DET E SIDE @ INT BT (MADSEJ, 09/09/2014)--A FEW VOID DRAINS

				URE COMPONENTS*			
<u>BSTRUCTURE</u>	<u>SKEW</u>	<u>LENGTH</u> <u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>LABEL</u> <u>COMMENT</u>	<u>S</u>		
ABUTMENT-1		30 FT 9 IN REINFORCED CONCRETE	NON-INTEGRAL				
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	<u>D COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>				
BEAM CAP		REINFORCED CONCRETE	CAST-IN-PLACE				
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
	DETERIORATION	ENDS		MINOR			
	LEACHING	RANDOM		MINOR			
	VERTICAL CRACKS			FEW			
PILING		STEEL	H-SHAPE	~			
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
STRAIGHT		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>	
	DETERIORATION	THROUGHOUT		MINOR			
BENT-2		REINFORCED CONCRETE	MULTIPLE COLUMN				
	CONDITION	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	MEASUREMENT	<u>COMMENT</u>	
ASSOCIATE	D COMPONENT	MATERIAL	CONSTRUCTION				
COLUMN		REINFORCED CONCRETE	INTEGRAL CAST-IN-	-PLACE			
	CONDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT	
	DELAMINATION	BOTTOM		FEW			
	HORIZONTAL CRACK			FEW			
FOOTING		REINFORCED CONCRETE	SPREAD				
	CONDITION	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	MEASUREMENT	<u>COMMENT</u>	
BENT-3		REINFORCED CONCRETE	MULTIPLE COLUMN				
DENT-3	CONDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
ASSOCIATE	D COMPONENT	<u>MATERIAL</u>	CONSTRUCTION	SEVERITI	WE/ISCREMENT	COMMENT	
COLUMN	D COMI ONLINI	REINFORCED CONCRETE	INTEGRAL CAST-IN-	-PLACE			
COLUMIN	<u>CONDITION</u>	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT	
	COLLISION DAMAGE	· · · · · · · · · · · · · · · · · · ·	EOCHIIOI 2	MINOR	ME/ISCREMENT	COMMENT	
	HORIZONTAL CRACK			FEW			
	SPALLS	AT COLUMNS		FEW			
FOOTING	SIALLS	REINFORCED CONCRETE	SPREAD	I. I. AA			
POULING	CONDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT	
	COMDITION	<u>LOCATION I</u>	LOCATION 2	<u>SEY ERITT</u>	MEMBINI	COMMENT	
DENTE (DEDIEGO CED COVEDETT	A HI WIDLE COLLEGE				
BENT-4	COMPTEND	REINFORCED CONCRETE	MULTIPLE COLUMN	(11777777777777777777777777777777777777	ME (CURE) CELE	COMMENT	
100001	<u>CONDITION</u>	<u>LOCATION 1</u>	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT	
·	<u>D COMPONENT</u>	MATERIAL	<u>CONSTRUCTION</u>	NI A GE			
COLUMN	GOVE	REINFORCED CONCRETE	INTEGRAL CAST-IN-		160 (60000000000000000000000000000000000	COLUMN	
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT	
	HORIZONTAL CRACK			FEW			
FOOTING	~~	REINFORCED CONCRETE	SPREAD	-			
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
ABUTMENT-5		30 FT 9 IN REINFORCED CONCRETE	NON-INTEGRAL				

Missouri Department of Transportation State Bridge Inspection Report December 19, 2022 1:35:34PM

COUNTY: CRAWFORDDISTRICT: CDCLASS: STATBRFED-ID: 982BRIDGE: A1192CONDITIONLOCATION 1LOCATION 2SEVERITYMEASUREMENTCOMMENT

ASSOCIATED COMPONENTMATERIALCONSTRUCTIONBEAM CAPREINFORCED CONCRETECAST-IN-PLACE

CONDITIONLOCATION 1LOCATION 2SEVERITYMEASUREMENTCOMMENTDETERIORATIONENDSMINOR

LEACHING THROUGHOUT MINOR VERTICAL CRACKS THROUGHOUT FEW

PILING STEEL H-SHAPE

CONDITIONLOCATION 1LOCATION 2SEVERITYMEASUREMENTCOMMENTSTRAIGHT WINGSREINFORCED CONCRETECAST-IN-PLACE

 CONDITION
 LOCATION 1
 LOCATION 2
 SEVERITY
 MEASUREMENT
 COMMENT

 DETERIORATION
 THROUGHOUT
 MINOR

OVER/UNDER ROUTES CLEARANCE INFORMATION

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

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

RECORD # **ROUTE** UR-ID **DIRECTION OF TRAFFIC** RIGHT LATERAL CLEARANCE **LEFT LATERAL CLEARANCE** # LANES 2308 IS 44 E 1-WAY TRAF 2 12 FT 7 IN 18 FT 7 IN **VERTICAL CLEARANCE TYPE** COMMENT** VALUE **DIRECTION** DATE

ACTUAL 16 FT 10 IN 10/19/2010

RECORD # ROUTE # LANES DIRECTION OF TRAFFIC RIGHT LATERAL CLEARANCE LEFT LATERAL CLEARANCE

RECORD #ROUTE# LANESDIRECTION OF TRAFFICRIGHT LATERAL CLEARANCELEFT LATERAL CLEARANCEUR-ID2IS 44 W21-WAY TRAF12 FT 7 IN18 FT 7 IN2309

VERTICAL CLEARANCE TYPE**
ACTUALVALUE
17 FT 0 INDIRECTION
10/19/2010DATE
10/19/2010COMMENT
10/19/2010

STRUCTURE PAINT INFORMATION

CONDITION: RUST AMOUNT: STEEL TONS: 0

ORIGINAL PAINT CONTRACT REPAINT DEPARTMENT REPAINT

PAINT TYPE:
NAME:
NAME:
PAINT COLOR:
PAINT COLOR:
PAINT COLOR:
PAINT COLOR:

PAINT TYPE:
MANUFACTURE:
NAME:
SURFACE PREP:
PAINT COLOR:

PAINT YEAR: PAINT YEAR: PAINT YEAR: MILS: MILS:

REQUESTED WORK ITEMS

MODOT

 $Design_No = a1192$

Estimated Total Project Cost:

Missouri Department of Transportation State Bridge Inspection Report

December 19, 2022 1:35:34PM

COUNTY: CRAWFORD DISTRICT		DISTRICT: CD	CD CLASS: STATBR		FED-ID: 982		BRIDGE: A1192			
GENERAL WORK COMMENT	'S:									
RESPONSIBILITY DISTRICT SPECIAL R	<i>LOCATION</i> COADWAY SURFACE	ITEM SEAL WITH SILANE	<i>Category</i> Deck	PRIORITY 3	DATE WORK 08/31/2028	X ITEM COMMENT				
			U]	<u> FILITY ATTA</u>	CHMENTS					
UTILITY	OWNER	<i>METHOD</i>	MEASUREMENT TYPE	VALUE	NUMBER	UTILITY ATTACHN	MENT COMMENT			
			***PROGF	RAM NOTES	INFORMATION**	**				
YEAR PROJECT #	MONTH LET YEAR LET	<u>ITEMS</u>		<u>(</u>	COMMENT					
(FICIENCY ITEMS		***ADVANCED SIGN INFORMATION***							
NOTE: The items listed in this sect	n to TMS. SIG	GN #	SIGN TYPE	PROBLEM	PROBLEM DIRECTION					
Rated Item	<u>Ratin</u>	2	Rating Date			1				
[Item 67] Structure Evaluation Rat	ting: 5-BETTER THAN	MINIMUM	3/25/2002							
[Item 68] Deck Geometry Rating:	4-MEETS MINIMUN	M TOLERABLE	2/22/2022							
[Item 69] Underclearance:	6-EQ TO PRESEN		1/26/2022							
Sufficiency Rating:	57.4%		2/22/2022							
Deficiency:	NOT DEFI	CIENT	5/18/2001							
Funding Eligibility:						***OUTFALL INSPECTION INFORMATION***				
	Estimated New Structure Length:						INSPECTOR:			
Estimated Structure Cost:						# OUTFALLS: INSPECTOR:				

STATUS:

NOTES:

DATE:

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.



Missouri Department of Transportation State Bridge Inspection Report CLASS: STATBR

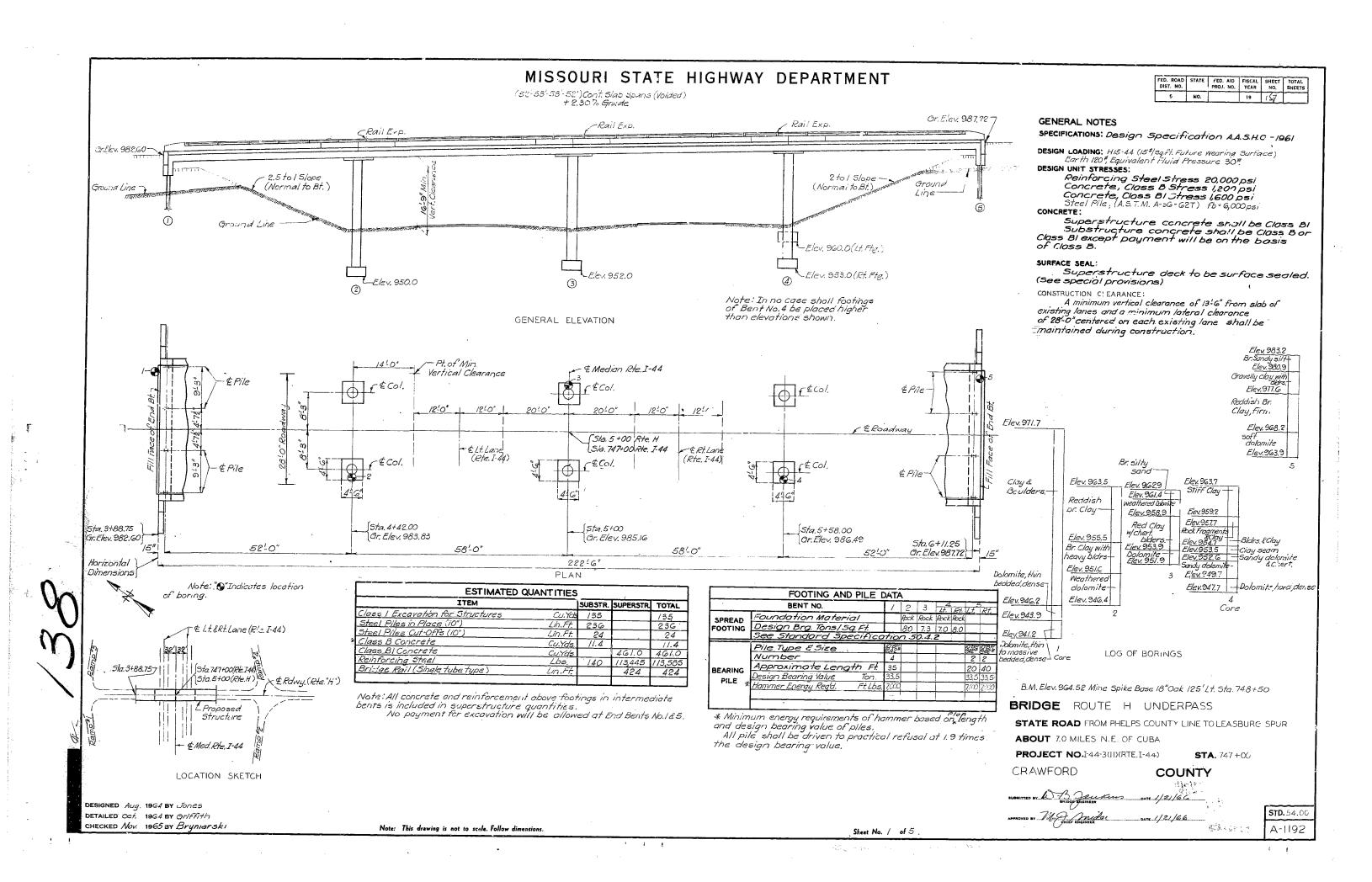
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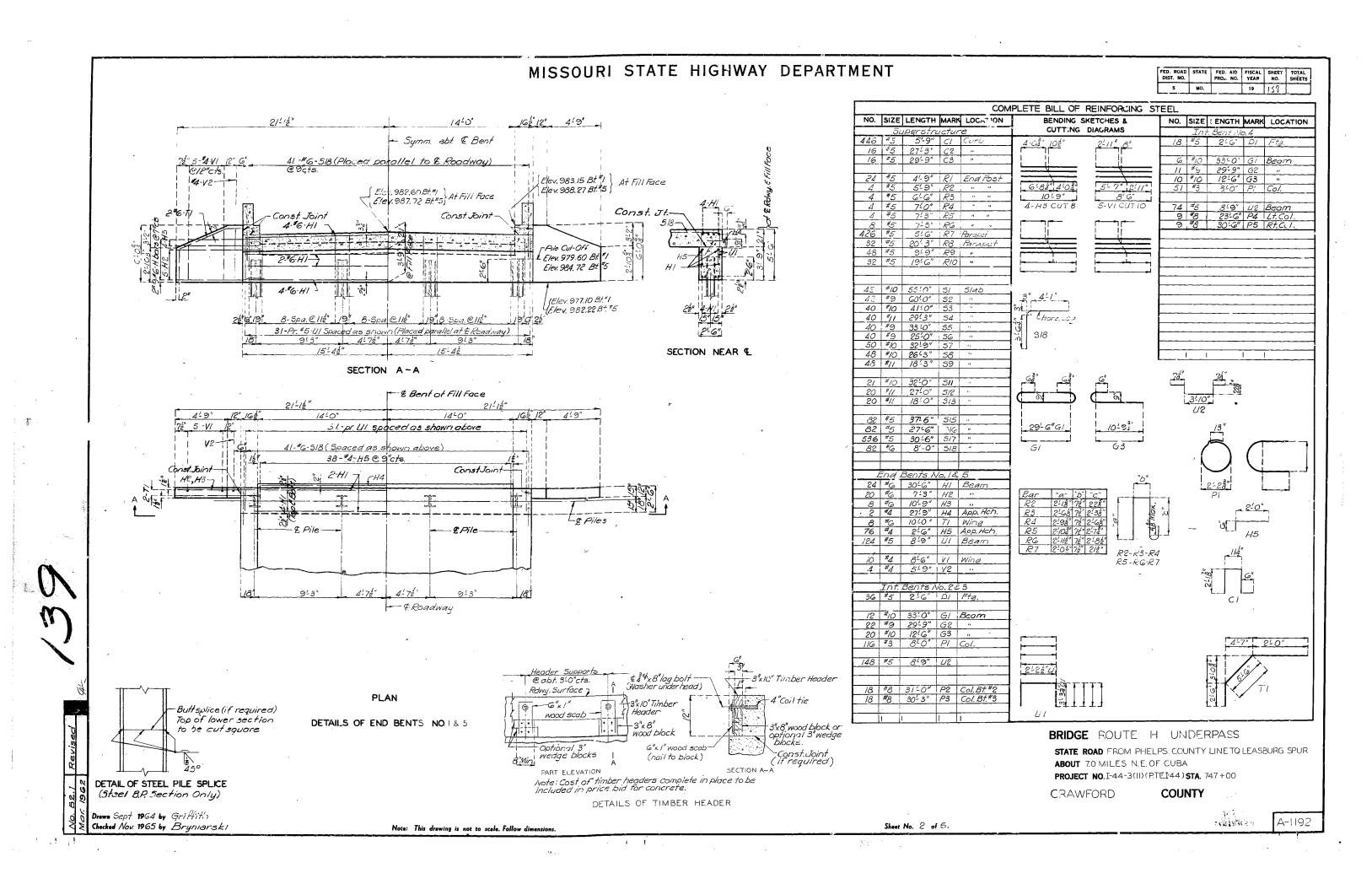
COUNTY: CRAWFORD

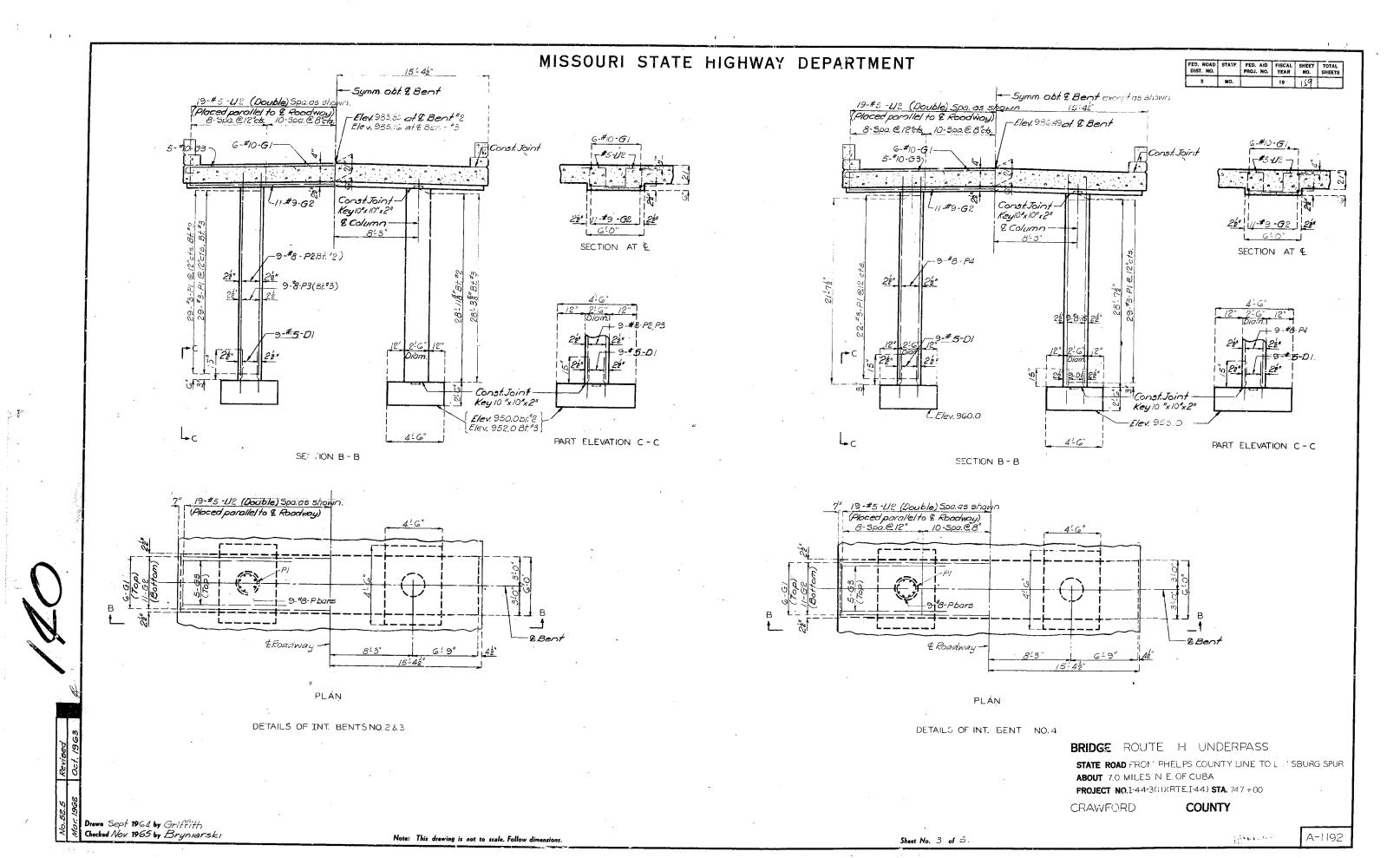
DISTRICT: CD

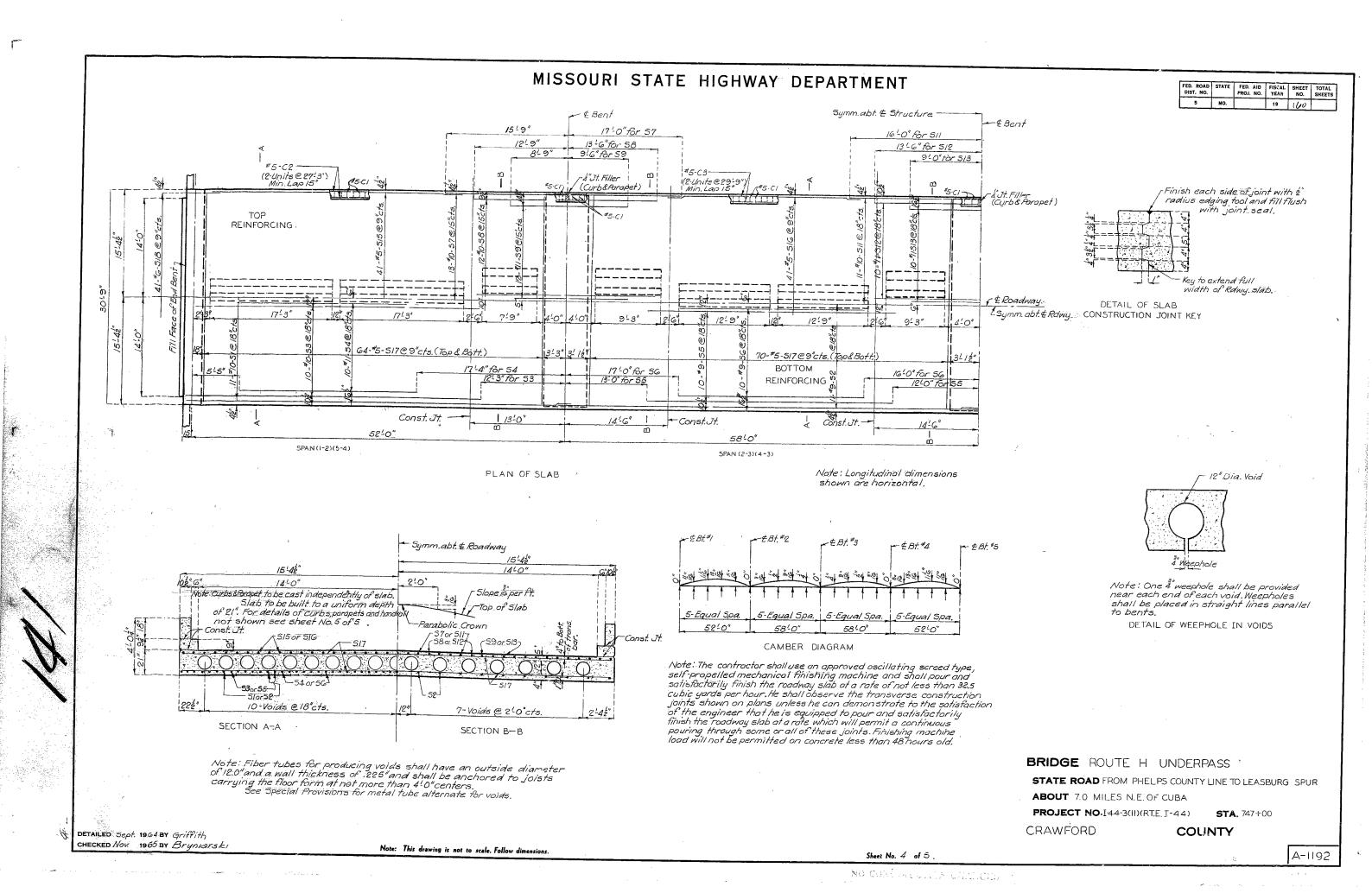
FED-ID: 982

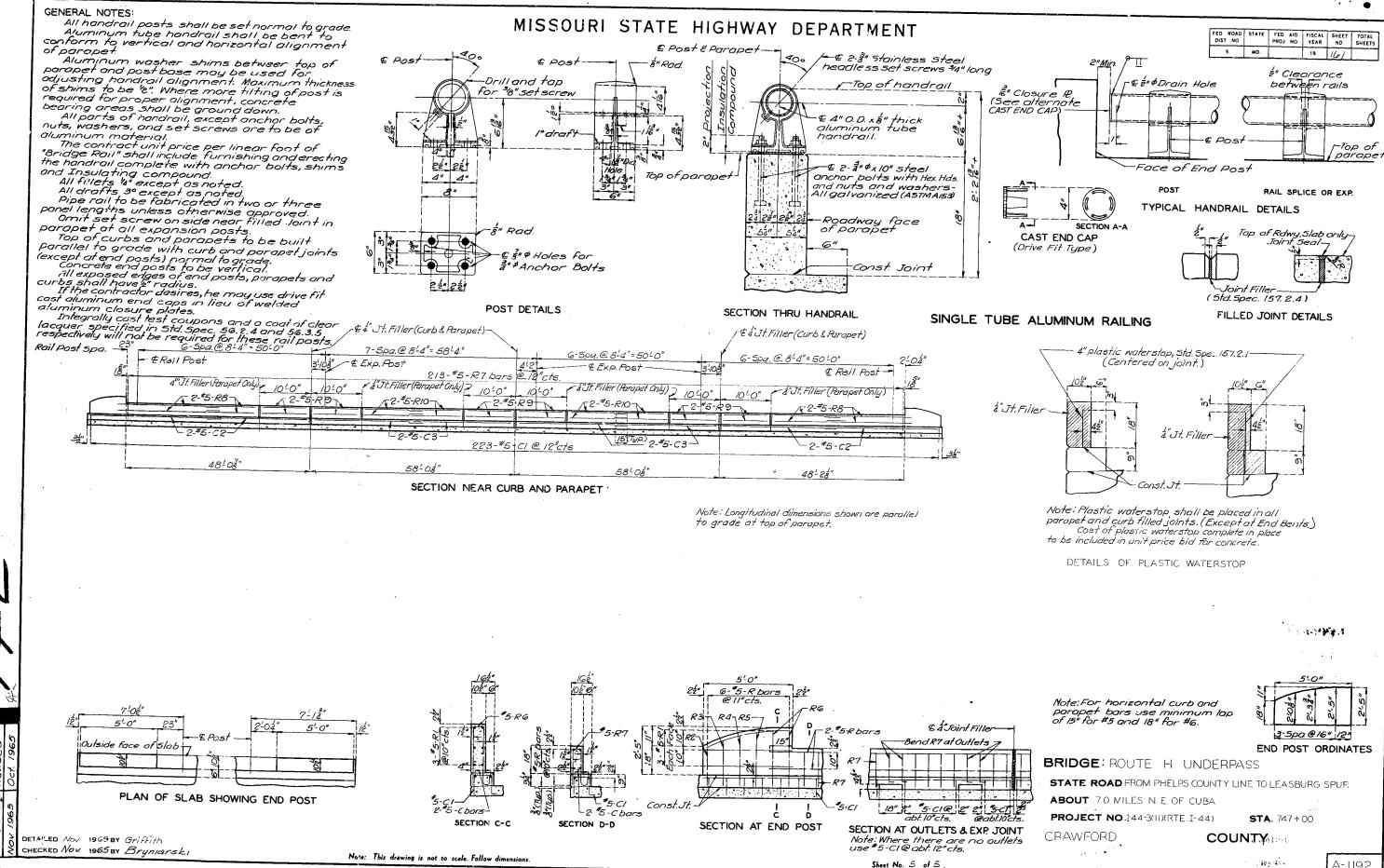
BRIDGE: A1192





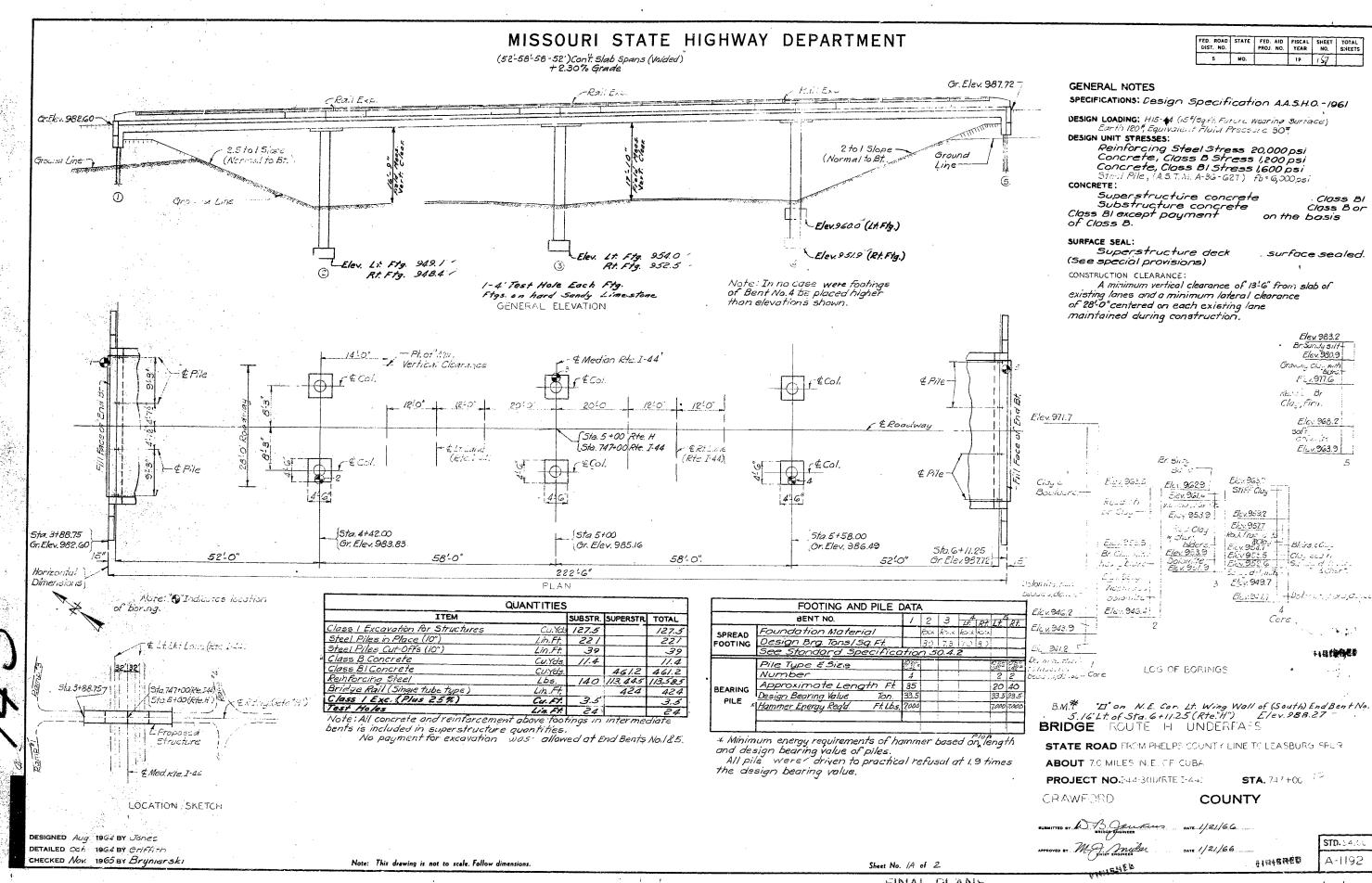


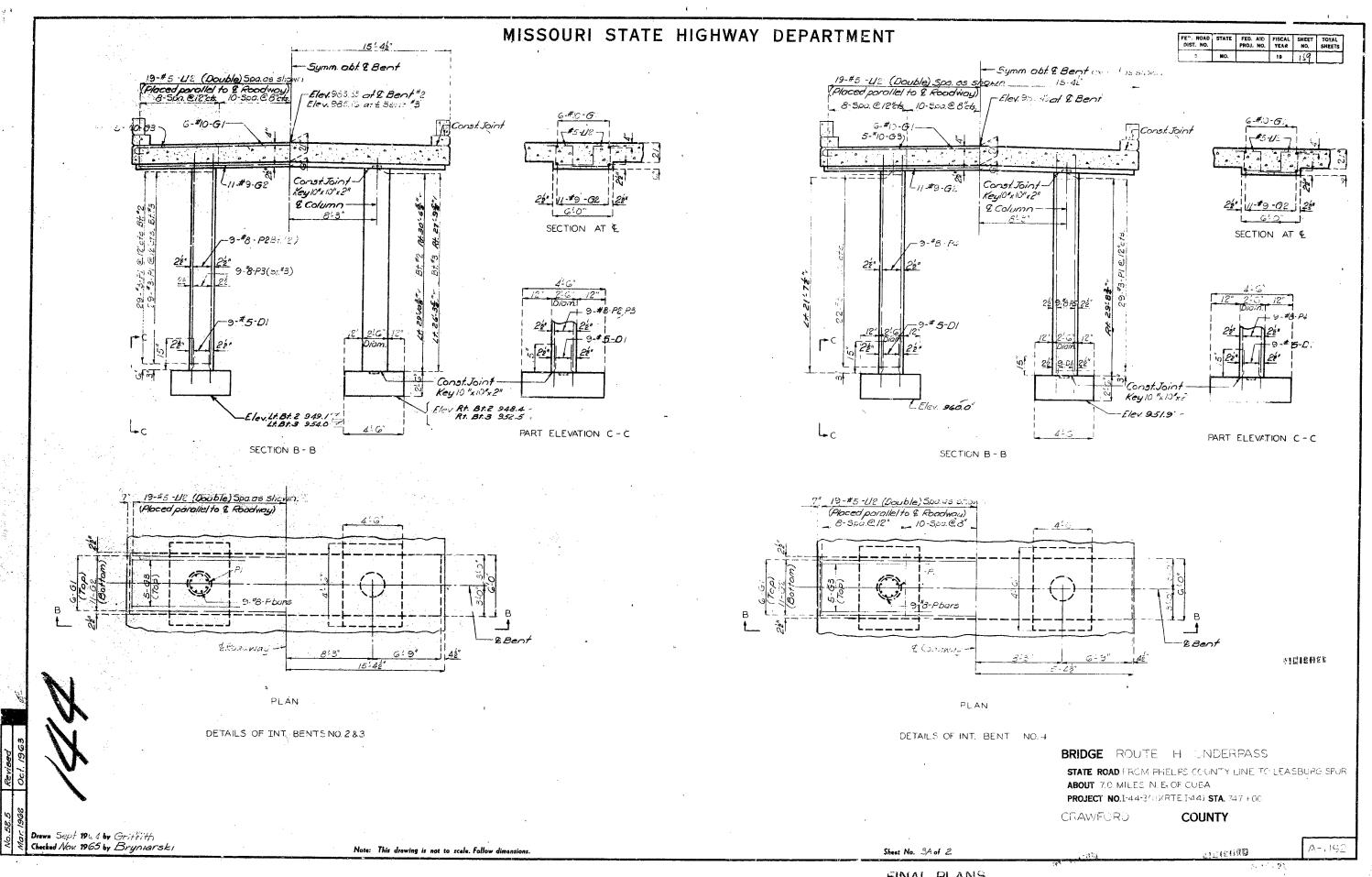




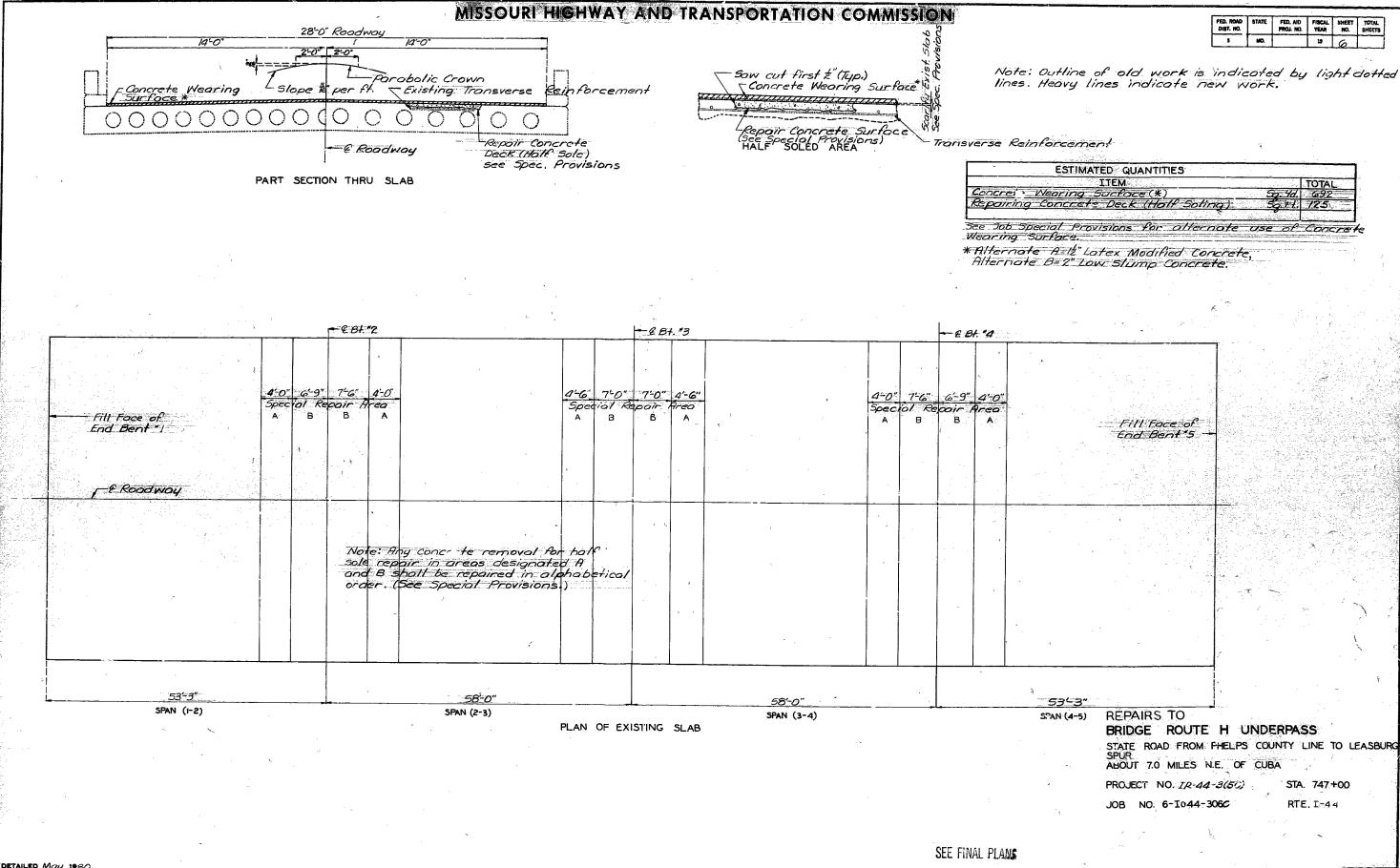
NO C

A-1192





FINAL PLANS



DETAILED May 1980 CHECKED May 1980

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

Sheet No. / of / .

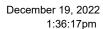
CRAWFORD COUNTY A-1192R

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION 28-0' Roadway 10 6 14'0" Note: Outline of old work is indicated by light dotted Sow cut first &" (Typ.) -Parabolic Crown lines. Heavy lines indicate new work. Concrete Wearing Surface Concrete Wearing - Slope to per ft. Existing Transverse Reinforcement FINAL PLANS 000000000 Repair Concrete Surface (See Special Provisions) HALF SOLED AREA Repair Concrite Deck (Holf Sole) - Transverse Reinforcement -E Roadway see Spec. Provisions ESTIMATED QUANTITIES ITEM

Concrete Wearing Surface(*)

Repairing Concrete Deck (Half Soling) PART SECTION THRU SLAB See Job Special Provisions for alternate use of Concrete Wearing Surface. #Alternate B=2" Lotex Modified Concrete.
*Alternate B=2" Low Sturp Concrete was used. -- EBI."2 - & Bt. "3 - EBH. 4 --4-0 6-9 7-6 4'-6" 7'-0" 7'-0" 4'-6" Special Repoir Free 4-0" 7-6" Special Repair Area Special Repair Area _Fill Foce of __ End Bent 1 В В В В Fill Foce of End Bent's -£ Roodwou Note: Any concrete removal for hal sole repair in areas designates A and B shall be repaired in alphabetical order. (See Special Provisions.) 53**-3**" 58'-0" *58'-0"*-- 53'-3" SPAN (1-2) SPAN (2-3) REPAIRS TO SPAN (3-4) PLAN OF EXISTING SLAB BRIDGE ROUTE H UNDERPASS STATE ROAD FROM FAELPS COUNTY LINE TO EASBURG ABOUT 7.0 MILLES N.E. OF CUBA PROJECT NO. TR-44-3(50) STA. 747+00 JB NO. 6-1044-3060 RTE. I-44 DETAILED May 1980 CHECKED MOY 1980 Note: This drawing is not to scale. Follow dimensions. A-1192R Sheet No. /A of / . CRAWFORD COUNTY

E.G.





COUNTY: CRAWFORD A1192 R REVIEW STATUS: APPROVED T **BRIDGE:** NBI STATUS: 1 RTE THAT GOES 'UNDER' S 11/30/2022 2022 **RECORD TYPE:** RUN DATE: **SUBMITTAL YEAR:** GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION State 1 RTE THAT GOES 'UNDER' S Code: A MISSOURI 5A Record Type District 5B CD Route Signing Prefix MAINLINE CRAWFORD County 5C Designated Level of Service 00044 982 8 Federal ID No. 5D Route Number 1966 NOT APPLICABLE 27 Year Built 5E Directional Suffix RT H E 106 0 Year Reconstructed 7 Facility Carried HIGHWAY Type of Service On 12 Base Hwy. 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 NONE EXISTS 101 28A Parallel Struc Desg Lanes on Structure NOT TEMPORARY Temporary Structure 103 ON A DEFENSE HWY 100 STRAHNET Designation NBIS Bridge Length ON NHS National Highway System 104 105 Federal Lands Highway YES 110 Designated Nat. Network STRUCTURE LOCATION INFORMATION STRUCTURE TRAFFIC INFORMATION 15925 4 BENTON Place 29 AADT 046182021 Code 30 AADT Year 1-WAY TRAFFIC S 12 T 39 N R 4 W Location 102 Direction of Traffic 11 Milepoint 215.50 miles 35% 109 AADT Truck Percent 16 Latitude 38 D 7 M 12 S 114 Future AADT 17 Longitude 91 D 18 M 52 S 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION IS 44 10 16 Ft. 10 In. Features Intersected Inventory Rte. Vert. Clear 42B HIGHWAY 19 0.00 miles Type of Service Under By pass Detour Length 02 28B Lanes Under Structure 32 Approach Roadway Width 54A Vert. Clearance Ref. 34 Skew 54B Vert. Clearance 35 Struct. Flared Rt. Lat Clear Ref. Total Horiz. Clear 27 Ft. 11 In. 55A 47 55B Rt. Lat Clearance 48 58 Ft. 1 In. Maximum Span Length 223 Ft. 1 In. Left Lat Clearance 49 Structure Length Navigation Control 50A 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



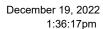
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COUNTY: CRAWFORD A1192 R REVIEW STATUS: APPROVED T **BRIDGE:** NBI STATUS: 2022 11/30/2022 1 RTE THAT GOES 'UNDER' S **SUBMITTAL YEAR: RECORD TYPE: RUN DATE:** LOAD RATING AND POSTING INFORMATION MATERIAL/CONSTRUCTION INFORMATION 43A Main Struc. Mat type CONCRETE CONTINUOUS Design Load SLAB 41 Structure Status 43B Main struc Constr. Type 63 45 Oper. Rating Meth. # of Main Spans Operating Rating 44A Appr Struc. Mat type 44B Appr Struc. Cnstr. type 65 Inventory Rating Meth 46 # of Approach Span Inventory Rating 70 107 Deck Mat/Constr. Bridge Posting Code 108A Wear Surf Mat/Constr. PROPOSED IMPROVEMENT INFORMATION 108B Membrane Mat/Constr. Sufficiency Rating 108C Deck Protect Mat/Constr. Deficiency Rating CONDITION RATING INFORMATION Funding Eligibility Proposed Work 58 Deck Cond. Rating 75B Work Done By 59 Superstructure Cond. Rating 76 New Struc Length 60 Substructure Cond. Rating 94 Struc Improve Cost 61 Channel / Channel Protection Cond. Rating 95 Roadway Improve Cost 62 Culvert Cond. Rating 96 Total Project Cost INSPECTION INFORMATION Year of Cost Estimates 90 Gen. Insp Date APPRAISAL RATING INFORMATION 91 Gen. Insp. Frequency 36A Br. Rail App. Rating 92A Frac. Critical Inspection 36B 93A Transition Rail App. Rating Frac. Critical Insp. Date 36C 92B Approach Rail App. Rating Underwater Inspection 36D Rail End Treat. App. Rating 93B Underwater Insp. Date 67 Struc Eval App. Rating 92C Special Inspection Deck Geometry App. Rating 93C Special Inspection Date 69 Underclearance App. Rating BORDER BRIDGE INFORMATION 71 Waterway Adeq. App. Rating 98 Neighboring State Code 72 Approach Road App. Rating 98B Neighboring State % Respon 113 Scour Assess App. Rating 99 Neighboring State Struc. No. APPROVED POSTING INFORMATION FIELD POSTING INFORMATION Approved Posting Category Field Posting Category Ton1 Ton2 Ton3 Ton1 Ton2 Ton3 Tonnage Values for Posting Sign Tonnage Values for Posting Sign

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General Text for Posting Sign

General Text for Posting Sign



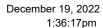


COUNTY: CRAWFORD A1192 R REVIEW STATUS: APPROVED P **BRIDGE:** NBI STATUS: 1 RTE THAT GOES 'UNDER' S 3/8/2022 2021 **RECORD TYPE: SUBMITTAL YEAR:** RUN DATE: GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION State 1 RTE THAT GOES 'UNDER' S Code: A MISSOURI 5A Record Type District 5B CD Route Signing Prefix MAINLINE CRAWFORD County 5C Designated Level of Service 00044 982 8 Federal ID No. 5D Route Number 1966 NOT APPLICABLE 27 Year Built 5E Directional Suffix RT H E 106 0 Year Reconstructed 7 Facility Carried HIGHWAY Type of Service On 12 Base Hwy. 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 NONE EXISTS 101 28A Parallel Struc Desg Lanes on Structure NOT TEMPORARY Temporary Structure 103 ON A DEFENSE HWY 100 STRAHNET Designation NBIS Bridge Length ON NHS National Highway System 104 105 Federal Lands Highway YES 110 Designated Nat. Network STRUCTURE LOCATION INFORMATION STRUCTURE TRAFFIC INFORMATION 15925 4 BENTON Place 29 AADT 046182021 Code 30 AADT Year 1-WAY TRAFFIC S 12 T 39 N R 4 W Location 102 Direction of Traffic 11 Milepoint 213.78 miles 35% 109 AADT Truck Percent 16 Latitude 38 D 7 M 12 S 114 Future AADT 17 Longitude 91 D 18 M 52 S 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION IS 44 10 16 Ft. 10 In. Features Intersected Inventory Rte. Vert. Clear 42B HIGHWAY 19 0.00 miles Type of Service Under By pass Detour Length 02 28B Lanes Under Structure 32 Approach Roadway Width 54A Vert. Clearance Ref. 34 Skew 54B Vert. Clearance 35 Struct. Flared Rt. Lat Clear Ref. Total Horiz. Clear 27 Ft. 11 In. 55A 47 55B Rt. Lat Clearance 48 58 Ft. 1 In. Maximum Span Length 223 Ft. 1 In. Left Lat Clearance 49 Structure Length Navigation Control 50A 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



December 19, 2022 1:36:17pm

COUNTY: CRAWFORD A1192 R REVIEW STATUS: APPROVED P **BRIDGE:** NBI STATUS: 3/8/2022 2021 1 RTE THAT GOES 'UNDER' S **SUBMITTAL YEAR: RECORD TYPE: RUN DATE:** LOAD RATING AND POSTING INFORMATION MATERIAL/CONSTRUCTION INFORMATION 43A Main Struc. Mat type CONCRETE CONTINUOUS Design Load SLAB 41 Structure Status 43B Main struc Constr. Type 63 45 Oper. Rating Meth. # of Main Spans Operating Rating 44A Appr Struc. Mat type 44B Appr Struc. Cnstr. type 65 Inventory Rating Meth 46 # of Approach Span Inventory Rating 70 107 Deck Mat/Constr. Bridge Posting Code 108A Wear Surf Mat/Constr. PROPOSED IMPROVEMENT INFORMATION 108B Membrane Mat/Constr. Sufficiency Rating 108C Deck Protect Mat/Constr. Deficiency Rating CONDITION RATING INFORMATION Funding Eligibility Proposed Work 58 Deck Cond. Rating 75B Work Done By 59 Superstructure Cond. Rating 76 New Struc Length 60 Substructure Cond. Rating 94 Struc Improve Cost 61 Channel / Channel Protection Cond. Rating 95 Roadway Improve Cost 62 Culvert Cond. Rating 96 Total Project Cost INSPECTION INFORMATION Year of Cost Estimates 90 Gen. Insp Date APPRAISAL RATING INFORMATION 91 Gen. Insp. Frequency 36A Br. Rail App. Rating 92A Frac. Critical Inspection 36B 93A Transition Rail App. Rating Frac. Critical Insp. Date 36C 92B Approach Rail App. Rating Underwater Inspection 36D Rail End Treat. App. Rating 93B Underwater Insp. Date 67 Struc Eval App. Rating 92C Special Inspection Deck Geometry App. Rating 93C Special Inspection Date 69 Underclearance App. Rating BORDER BRIDGE INFORMATION 71 Waterway Adeq. App. Rating 98 Neighboring State Code 72 Approach Road App. Rating 98B Neighboring State % Respon 113 Scour Assess App. Rating 99 Neighboring State Struc. No. APPROVED POSTING INFORMATION FIELD POSTING INFORMATION Approved Posting Category Field Posting Category 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





COUNTY: CRAWFORD A1192 R REVIEW STATUS: APPROVED T **BRIDGE:** NBI STATUS: 11/30/2022 2022 ROUTE CARRIED 'ON' STRUCT **RECORD TYPE: RUN DATE: SUBMITTAL YEAR:** GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION ROUTE CARRIED 'ON' STRUCT State MISSOURI 5A Record Type MO District 5B CD Route Signing Prefix CRAWFORD MAINLINE County 5C Designated Level of Service 0000H982 8 Federal ID No. 5D Route Number 1966 NOT APPLICABLE 27 5E Year Built Directional Suffix RT H E 106 1984 7 Year Reconstructed Facility Carried NO HIGHWAY Type of Service On 12 Base Hwv. Network STATE HIGHWAY AGENCY 21 Structure Maintenance 13A LRS Inventory Route No. STATE HIGHWAY AGENCY 22 Structure Owner 13B Subroute No. 33 CLOSED MEDIAN(NO BARRIER) Toll Status ON FREE ROAD Br. Median Code 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 NO 110 Designated Nat. Network STRUCTURE LOCATION INFORMATION STRUCTURE TRAFFIC INFORMATION 2254 4 BENTON Place 29 AADT 046182021 Code 30 AADT Year 2-WAY TRAFFIC S 12 T 39 N R 4 W Location 102 Direction of Traffic 11 Milepoint 0.06 miles 5% 109 AADT Truck Percent 16 Latitude 38 D 7 M 12 S 3156 114 Future AADT 17 Longitude 91 D 18 M 52 S 2041 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION IS 44 10 99 Ft. 99 In. Features Intersected Inventory Rte. Vert. Clear 42B HIGHWAY 19 26.25 miles Type of Service Under By pass Detour Length 04 28B Lanes Under Structure 32 Approach Roadway Width 38 Ft. 1 In. HIGHWAY 0.00 Degrees 54A Vert. Clearance Ref. 34 Skew 54B Vert. Clearance 35 Struct. Flared 16 Ft. 9 In. Rt. Lat Clear Ref. HIGHWAY Total Horiz. Clear 27 Ft. 11 In. 55A 47 55B Rt. Lat Clearance 12 Ft. 6 In. 48 58 Ft. 1 In. Maximum Span Length 223 Ft. 1 In. Left Lat Clearance 18 Ft. 8 In. 49 Structure Length N/A Navigation Control 50A 0 Ft. 0 In. Left Curb/Sidewalk Width Nav Vertical Clear 0 Ft. 0 In. 39 50B Right Curb/Sidewalk Width 0 Ft. 0 In. 0 Ft. 0 In. Curb to Curb Br. Width 27 Ft. 11 In. 40 Nav Horizontal Clear 51 30 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: CRAWFORD

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

REVIEW STATUS: APPROVED

A1192 R

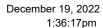
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NBI STATUS:

11/30/2022 2022 ROUTE CARRIED 'ON' STRUCT **RUN DATE: SUBMITTAL YEAR: RECORD TYPE:** LOAD RATING AND POSTING INFORMATION MATERIAL/CONSTRUCTION INFORMATION Design Load H 15 43A Main Struc. Mat type CONCRETE CONTINUOUS OPEN NO RESTRICTIONS SLAB 41 Structure Status 43B Main struc Constr. Type ALLOWABLE STRESS 63 45 Oper. Rating Meth. # of Main Spans 000 64 48 Tons. 44A Appr Struc. Mat type Operating Rating 000 ALLOWABLE STRESS 44B Appr Struc. Cnstr. type 65 Inventory Rating Meth 20 Tons. 46 # of Approach Span **Inventory Rating** 1 CONCRETE CIP 70 =>LEGAL LOADS 107 Deck Mat/Constr. Bridge Posting Code 108A 4 LOW SLUMP Wear Surf Mat/Constr. PROPOSED IMPROVEMENT INFORMATION 108B 1 BUILT UP Membrane Mat/Constr. 57.4 Percent Sufficiency Rating 108C Deck Protect Mat/Constr. 7 INTERNALLY SEALED NOT DEFICIENT **Deficiency Rating** CONDITION RATING INFORMATION Funding Eligibility Proposed Work 58 6 Deck Cond. Rating 75B Work Done By 59 Superstructure Cond. Rating 0 Ft. 0 In. 76 New Struc Length 60 Substructure Cond. Rating 94 Struc Improve Cost \$ 0.000 61 N Channel / Channel Protection Cond. Rating 95 \$ 0,000 Roadway Improve Cost 62 Culvert Cond. Rating \$0,000 96 Total Project Cost INSPECTION INFORMATION Year of Cost Estimates 90 5 / 22 Gen. Insp Date 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 93A DOES NOT MEET ACCEPT STND Transition Rail App. Rating Frac. Critical Insp. Date 36C MEETS ACCEPTBLE STND 92B Approach Rail App. Rating Underwater Inspection Months DOES NOT MEET ACCEPT STND 36D 93B Rail End Treat. App. Rating Underwater Insp. Date 67 5 Struc Eval App. Rating 92C Special Inspection N Months Deck Geometry App. Rating 4 93C Special Inspection Date 69 Underclearance App. Rating BORDER BRIDGE INFORMATION 71 Waterway Adeq. App. Rating 98 Neighboring State Code 72 8 Approach Road App. Rating 98B Neighboring State % Respon 113 N Scour Assess App. Rating 99 Neighboring State Struc. No. APPROVED POSTING INFORMATION FIELD POSTING INFORMATION S-1 S-1 Approved Posting Category Field Posting Category 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





COUNTY: CRAWFORD A1192 R REVIEW STATUS: APPROVED P **BRIDGE:** NBI STATUS: 3/8/2022 2021 ROUTE CARRIED 'ON' STRUCT **RECORD TYPE:** RUN DATE: **SUBMITTAL YEAR:** GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION ROUTE CARRIED 'ON' STRUCT State MISSOURI 5A Record Type MO District 5B CD Route Signing Prefix CRAWFORD MAINLINE County 5C Designated Level of Service 0000H982 8 Federal ID No. 5D Route Number 1966 NOT APPLICABLE 27 5E Year Built Directional Suffix RT H E 106 1984 7 Year Reconstructed Facility Carried NO HIGHWAY Type of Service On 12 Base Hwv. Network STATE HIGHWAY AGENCY 21 Structure Maintenance 13A LRS Inventory Route No. STATE HIGHWAY AGENCY 22 Structure Owner 13B Subroute No. 33 CLOSED MEDIAN(NO BARRIER) Toll Status ON FREE ROAD Br. Median Code 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 NO 110 Designated Nat. Network STRUCTURE LOCATION INFORMATION STRUCTURE TRAFFIC INFORMATION 2254 4 BENTON Place 29 AADT 046182021 Code 30 AADT Year 2-WAY TRAFFIC S 12 T 39 N R 4 W Location 102 Direction of Traffic 11 Milepoint 0.06 miles 5% 109 AADT Truck Percent 16 Latitude 38 D 7 M 12 S 3156 114 Future AADT 17 Longitude 91 D 18 M 52 S 2041 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION IS 44 10 99 Ft. 99 In. Features Intersected Inventory Rte. Vert. Clear 42B HIGHWAY 19 26.04 miles Type of Service Under By pass Detour Length 04 28B Lanes Under Structure 32 Approach Roadway Width 38 Ft. 1 In. HIGHWAY 0.00 Degrees 54A Vert. Clearance Ref. 34 Skew 54B Vert. Clearance 35 Struct. Flared 16 Ft. 9 In. Rt. Lat Clear Ref. HIGHWAY Total Horiz. Clear 27 Ft. 11 In. 55A 47 55B Rt. Lat Clearance 12 Ft. 6 In. 48 58 Ft. 1 In. Maximum Span Length 223 Ft. 1 In. Left Lat Clearance 18 Ft. 8 In. 49 Structure Length N/A Navigation Control 50A 0 Ft. 0 In. Left Curb/Sidewalk Width Nav Vertical Clear 0 Ft. 0 In. 39 50B Right Curb/Sidewalk Width 0 Ft. 0 In. 0 Ft. 0 In. Curb to Curb Br. Width 27 Ft. 11 In. 40 Nav Horizontal Clear 51 30 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

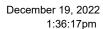


December 19, 2022 1:36:17pm

COUNTY: CRAWFORD BRIDGE: A1192 R REVIEW STATUS: APPROVED NBI STATUS: P
RECORD TYPE: ROUTE CARRIED 'ON' STRUCT RUN DATE: 3/8/2022 SUBMITTAL YEAR: 2021

LOAD RATING AND POSTING INFORMATION	MATERIAL/CONSTRUCTION INFORMATION				
31 Design Load H 15					
41 Structure Status A - OPEN NO RESTRICTIONS 63 Oper Pating Meth ALLOWABLE STRESS	43B Main struc Constr. Type SLAB				
Oper. Raung Meth.	45 # of Main Spans 4				
64 Operating Rating 48 Tons.	44A Appr Struc. Mat type				
65 Inventory Rating Meth ALLOWABLE STRESS	44B Appr Struc. Cnstr. type				
66 Inventory Rating 20 Tons.	46 # of Approach Span 0				
70 Bridge Posting Code =>LEGAL LOADS	107 Deck Mat/Constr. 1 CONCRETE CIP				
PROPOSED IMPROVEMENT INFORMATION	108A Wear Surf Mat/Constr. 4 LOW SLUMP 108B Membrane Mat/Constr. 1 BUILT UP				
Sufficiency Rating 57.4 Percent	108B Membrane Mat/Constr. 1 BUILT UP 108C Deck Protect Mat/Constr. 7 INTERNALLY SEALED				
Deficiency Rating NOT DEFICIENT	100C Deck Protect May Collstr. / INTERNALET SEALED				
Funding Eligibility	CONDITION RATING INFORMATION				
75A Proposed Work	58 Deck Cond. Rating 6				
75B Work Done By	59 Superstructure Cond. Rating 6				
76 New Struc Length 18 Ft. 8 In.	60 Substructure Cond. Rating 6				
94 Struc Improve Cost \$ 0,000	61 Channel /Channel Protection Cond. Rating N				
95 Roadway Improve Cost \$ 0,000	62 Culvert Cond. Rating N				
96 Total Project Cost \$ 0,000	INCRECTION INCODMATION				
97 Year of Cost Estimates 0	INSPECTION INFORMATION				
APPRAISAL RATING INFORMATION	90 Gen. Insp Date 9 / 20				
	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	93A Frac. Critical Insp. Date				
36C Approach Rail App. Rating MEETS ACCEPTBLE STND	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 4	93C Special Inspection Date				
69 Underclearance App. Rating 6	BORDER BRIDGE INFORMATION				
71 Waterway Adeq. App. Rating N	98 Neighboring State Code				
72 Approach Road App. Rating 8	98B Neighboring State % Respon				
113 Scour Assess App. Rating N	99 Neighboring State Struc. No.				
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COUNTY: CRAWFORD A1192 R REVIEW STATUS: APPROVED T **BRIDGE:** NBI STATUS: 2ND RTE THAT GOES 'UNDR'S 11/30/2022 2022 **RECORD TYPE:** RUN DATE: **SUBMITTAL YEAR:** GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION State 2ND RTE THAT GOES 'UNDR'S Code: B MISSOURI 5A Record Type District 5B CD Route Signing Prefix MAINLINE CRAWFORD County 5C Designated Level of Service 00044 982 8 Federal ID No. 5D Route Number 1966 NOT APPLICABLE 27 Year Built 5E Directional Suffix RT H E 106 0 Year Reconstructed 7 Facility Carried HIGHWAY Type of Service On 12 Base Hwy. 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 NONE EXISTS 101 28A Parallel Struc Desg 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 12845 4 BENTON Place 29 AADT 046182021 Code 30 AADT Year 1-WAY TRAFFIC S 12 T 39 N R 4 W Location 102 Direction of Traffic 11 Milepoint 79.35 miles 35% 109 AADT Truck Percent 16 Latitude 38 D 7 M 12 S 114 Future AADT 17 Longitude 91 D 18 M 52 S 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION IS 44 10 16 Ft. 9 In. Features Intersected Inventory Rte. Vert. Clear 42B HIGHWAY 19 0.00 miles Type of Service Under By pass Detour Length 02 28B Lanes Under Structure 32 Approach Roadway Width 54A Vert. Clearance Ref. 34 Skew 54B Vert. Clearance 35 Struct. Flared Rt. Lat Clear Ref. Total Horiz. Clear 27 Ft. 11 In. 55A 47 55B Rt. Lat Clearance 48 58 Ft. 1 In. Maximum Span Length 223 Ft. 1 In. Left Lat Clearance 49 Structure Length Navigation Control 50A 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



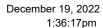
December 19, 2022 1:36:17pm

COUNTY: CRAWFORD BRIDGE: A1192 R REVIEW STATUS: APPROVED NBI STATUS: T
RECORD TYPE: 2ND RTE THAT GOES 'UNDR'S RUN DATE: 11/30/2022 SUBMITTAL YEAR: 2022

LOAD RATING AND POSTING INFORMATION MATERIAL/CONSTRUCTION INFORMATION

LOAD RATING AND POSTING INFORMATION	MATERIAL/CONSTRUCTION INFORMATION				
31 Design Load	43A Main Struc. Mat type CONCRETE CONTINUOUS				
41 Structure Status	43B Main struc Constr. Type SLAB				
63 Oper. Rating Meth.	45 # of Main Spans				
64 Operating Rating	44A Appr Struc. Mat type				
65 Inventory Rating Meth	44B Appr Struc. Cnstr. type				
66 Inventory Rating	# of Approach Span				
70 Bridge Posting Code	107 Deck Mat/Constr.				
PROPOSED IMPROVEMENT INFORMATION	108A Wear Surf Mat/Constr.				
Sufficiency Rating	108B Membrane Mat/Constr.				
Deficiency Rating	108C Deck Protect Mat/Constr.				
Funding Eligibility	CONDITION RATING INFORMATION				
75A Proposed Work	58 Deck Cond. Rating				
75B Work Done By	59 Superstructure Cond. Rating				
76 New Struc Length	60 Substructure Cond. Rating				
94 Struc Improve Cost	61 Channel /Channel Protection Cond. Rating				
95 Roadway Improve Cost	62 Culvert Cond. Rating				
96 Total Project Cost	INSPECTION INFORMATION				
97 Year of Cost Estimates					
APPRAISAL RATING INFORMATION	90 Gen. Insp Date 91 Gen. Insp. Frequency				
36A Br. Rail App. Rating	91 Gen. Insp. Frequency 92A Frac. Critical Inspection				
36B Transition Rail App. Rating	93A Frac. Critical Insp. Date				
36C Approach Rail App. Rating	92B Underwater Inspection				
36D Rail End Treat. App. Rating	93B Underwater Insp. Date				
67 Struc Eval App. Rating	92C Special Inspection				
68 Deck Geometry App. Rating	93C Special Inspection Date				
69 Underclearance App. Rating	BORDER BRIDGE INFORMATION				
71 Waterway Adeq. App. Rating					
72 Approach Road App. Rating	98 Neighboring State Code				
113 Scour Assess App. Rating	98B Neighboring State % Respon 99 Neighboring State Struc. No.				
	177 Ineignboring State Struc. No.				
APPROVED POSTING INFORMATION	FIELD POSTING INFORMATION				
Approved Posting Category	Field Posting Category				
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General Text for Posting Sign	General Text for Posting Sign				

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COUNTY: CRAWFORD A1192 R REVIEW STATUS: APPROVED P **BRIDGE:** NBI STATUS: 2ND RTE THAT GOES 'UNDR'S 3/8/2022 2021 **RECORD TYPE: 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 CD Route Signing Prefix MAINLINE CRAWFORD County 5C Designated Level of Service 00044 Federal ID No. 982 8 5D Route Number 1966 NOT APPLICABLE 27 Year Built 5E Directional Suffix RT H E 106 0 Year Reconstructed 7 Facility Carried HIGHWAY Type of Service On 12 Base Hwy. 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 NONE EXISTS 101 28A Parallel Struc Desg Lanes on Structure NOT TEMPORARY Temporary Structure 103 ON A DEFENSE HWY 100 STRAHNET Designation NBIS Bridge Length ON NHS National Highway System 104 105 Federal Lands Highway YES 110 Designated Nat. Network STRUCTURE LOCATION INFORMATION STRUCTURE TRAFFIC INFORMATION 12845 4 BENTON Place 29 AADT 046182021 Code 30 AADT Year 1-WAY TRAFFIC S 12 T 39 N R 4 W Location 102 Direction of Traffic 11 Milepoint 78.72 miles 35% 109 AADT Truck Percent 16 Latitude 38 D 7 M 12 S 114 Future AADT 17 Longitude 91 D 18 M 52 S 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION IS 44 10 16 Ft. 9 In. Features Intersected Inventory Rte. Vert. Clear 42B HIGHWAY 19 0.00 miles Type of Service Under By pass Detour Length 02 28B Lanes Under Structure 32 Approach Roadway Width 54A Vert. Clearance Ref. 34 Skew 54B Vert. Clearance 35 Struct. Flared Rt. Lat Clear Ref. Total Horiz. Clear 27 Ft. 11 In. 55A 47 55B Rt. Lat Clearance 48 58 Ft. 1 In. Maximum Span Length 223 Ft. 1 In. Left Lat Clearance 49 Structure Length Navigation Control 50A 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



December 19, 2022 1:36:17pm

COUNTY: CRAWFORD BRIDGE: A1192 R REVIEW STATUS: APPROVED NBI STATUS: P

RECORD TYPE: 2ND RTE THAT GOES 'UNDR'S RUN DATE: 3/8/2022 SUBMITTAL YEAR: 2021

LOAD RATING AND POSTING INFORMATION	MATERIAL/CONSTRUCTION INFORMATION
LOAD RATING AND POSTING INFORMATION 31 Design Load 41 Structure Status 63 Oper. Rating Meth. 64 Operating Rating 65 Inventory Rating Meth 66 Inventory Rating 70 Bridge Posting Code PROPOSED IMPROVEMENT INFORMATION Sufficiency Rating Deficiency Rating Funding Eligibility 75A Proposed Work 75B Work Done By 76 New Struc Length	MATERIAL/CONSTRUCTION INFORMATION 43A Main Struc. Mat type CONCRETE CONTINUOUS 43B Main struc Constr. Type SLAB 45 # of Main Spans 44A Appr Struc. Mat type 46 # of Approach Span 107 Deck Mat/Constr. 108A Wear Surf Mat/Constr. 108B Membrane Mat/Constr. 108C Deck Protect Mat/Constr. CONDITION RATING INFORMATION 58 Deck Cond. Rating 59 Superstructure Cond. Rating 60 Substructure Cond. Rating
94 Struc Improve Cost 95 Roadway Improve Cost 96 Total Project Cost 97 Year of Cost Estimates APPRAISAL RATING INFORMATION 36A Br. Rail App. Rating 36B Transition Rail App. Rating 36C Approach Rail App. Rating	61 Channel /Channel Protection Cond. Rating 62 Culvert Cond. Rating INSPECTION INFORMATION 90 Gen. Insp Date 91 Gen. Insp. Frequency 92A Frac. Critical Inspection 93A Frac. Critical Insp. Date 92B Underwater Inspection
ARRECOVED POSTING INVESTMENT Rail End Treat. App. Rating Struc Eval App. Rating Deck Geometry App. Rating Underclearance App. Rating Waterway Adeq. App. Rating Approach Road App. Rating Scour Assess App. Rating	93B Underwater Insp. Date 92C Special Inspection 93C Special Inspection Date BORDER BRIDGE INFORMATION 98 Neighboring State Code 98B Neighboring State % Respon 99 Neighboring State Struc. No.
APPROVED POSTING INFORMATION Approved Posting Category	FIELD POSTING INFORMATION 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

Bridge Number: A 1192R	Route/County:
Asbestos-Containing Yes: If yes, see report	No:
Structural Ste	No: No: If No, then skip the following.
Lead-Based Paint Yes:	(LBP) Present? No:
Trusses LBP? Yes: No:	Girder LBP? Yes: No:
Railing LBP? Yes: No:	Pile LBP? Yes: No:

MEMORANDUM



Missouri Department of Transportation Construction and Materials Central Laboratory

TO:

TMS

FROM:

Diane Roegge () (M)

Environmental Chemis

DATE:

June 6, 2017

SUBJECT:

Materials

Asbestos Inspection & Heavy Metal Paint Survey

Route H

Bridge A-1192R Crawford County

We are providing you with the results of the inspection on the above referenced bridge. The inspection report contains an asbestos and a heavy metals survey. The asbestos inspection included identifying suspect asbestos-containing material and NVLAP accredited testing to confirm the presence of asbestos.

Form T746 – This will show if samples were taken, where from, and, if the sample was found to contain asbestos, our estimated quantity of material present. Under the column "Friability Category", this is the meaning for the following:

N-ACM – No asbestos detected.

I NF – Asbestos is present. Material shall be handled carefully by a licensed abatement worker and kept wet if removing as part of a maintenance activity.

II NF – Asbestos is present. If removal is required for the maintenance activity, use an abatement contractor.

In accordance with Missouri Department of Natural Resources' Technical Bulletin "Managing Construction and Demolition Waste" dated January 31, 2003, a heavy metal paint survey has been performed on the above referenced bridge. This survey includes locating concrete which has been painted with something other than traffic paint or graffiti, and testing the painted surface(s) to determine if hazardous heavy metals are present. If the bridge is being removed completely, or the maintenance repairs include removing the painted concrete, then, non-hazardous painted concrete may be used as clean fill materials, if properly handled. You must contact the Central Office Design Division for proper handling of the reported painted surfaces.

Although our survey included observing and sampling all accessible areas, it is possible that potentially hidden asbestos-containing materials may exist within the structure. Should you have any questions regarding these reports, please contact me at (573) 526-4359.

db/fr/dr

http://sp/sites/cm/chemicallab/environmental/shared documents/asbestos/districts/central (cd)/mt/a1192r/dr16060625.docx

Attachments

Form T746 Rev. 08/2012

MISSOURI DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS

Page 1 of 1

Asbestos Survey Report All Suspect ACM

ROUTE: MODOT JOB NO.: DISTRICT: COUNTY: DATE OF SURVEY: PARCEL NO.:	H N/A CD Crawford June 8, 2017 Bridge A-1192R	SURVEYED BY: CERTIFICATION #: SITE ADDRESS: TYPE(S) OF STRUCTURE(S): Diane Roegge 7020102516M0IR7165 Over I-44, Exit #214 Bridge		
Sample ID	Type of Materials	Location of Material	Friability Category	Field Measure
4	Insulating Compound	Under 53-Tube Rail Posts, Over Concrete	II NF	20 Sq. Ft.
	Bridge Paint is not a suspect ACM per MSDS's			
	on file.			
	THE TAX TO SERVICE THE TAX TO SE	The state of the s		
	400000000000000000000000000000000000000			

MISSOURI DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS

Asbestos Survey Report
Nonfriable Asbestos-Containing Materials
(Abatement not required if not made friable during demolition.)

ROUTE: MODOT JOB NO.: DISTRICT: COUNTY: DATE OF TESTS: PARCEL NO.:	H N/A CD Crawford June 19, 2017 Bridge A-1192R	TESTED BY: CERTIFICATION #: SITE ADDRESS: TYPE(S) OF STRUCTURE(S):	Diane Roegge 7020102516MOIR7165 Over I-44, Exit #214 Bridge			
Sample ID	Type of Material	Location of Material	Friability Category	Field Measure	Asbestos Type	Percer
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a proposition of	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TABLES TO THE PARTY OF THE PART	- TANAMATA			

MISSOURI DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS Asbestos Survey Report All materials requiring removal or special handling.

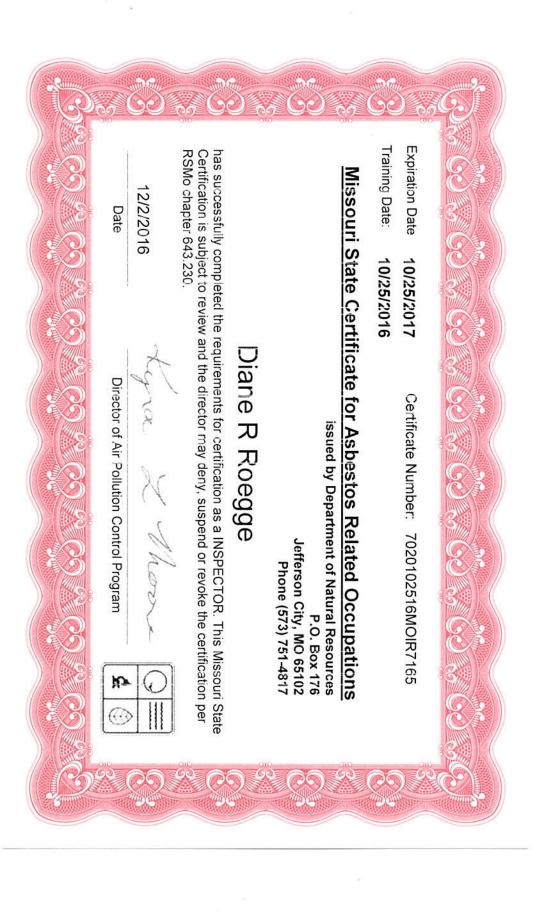
ROUTE:	H		TESTED BY:	Diane Roegge 4			
MODOT JOB NO.:		A	CERTIFICATION #:	7020102516MOIR71	65		
OHNTY:		CD	SITE ADDRESS:	Over I-44, Exit #214 Bridge		mmeren meneral de meteories de la comprese de la comprese de meteories de meteories de meteories meserales de m	VIERAL PARTICIPATION CONTINUES AND
DATE OF TESTS:		June 19, 2017	— was				
ARCEL NO.:		Bridge A-1192R				***************************************	Box 1974 48 494 Andrew 4 4 Andrew 400
Bid Itam No	Sample ID	Type of Material	Incation of Material	Friability	Field	Asbestos Type	Percen
02-40.43	17MD1R 354	Insulating Compound	Under 53-Tube Rail Posts, Over Concrete			Chrysotile	1-3
	SUPPRINCE PROPERTY OF THE PROP		None Located	H			
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MISSOURI DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS

Metals Survey Report of Painted Concrete, Block, Brick Surfaces for Clean Fill Purposes

ROUTE: MODOT JOB NO.: DISTRICT: COUNTY: SURVEYED BY: DATE OF SURVEY:	N/A CD Crawford Diane Roegged June 8, 2017	TESTED BY: DATE OF TESTS: PARCEL NO.: SITE ADDRESS: TYPE(S) OF STRUCT		N/A N/A Brid Over Brid	N/A N/A Bridge A-1192R Over 1-44, Exit #214 URE(S): Bridge	R #214			
	AMAX.		The second state of the second	THE CONTRACTOR OF THE CONTRACT	Metals (ppm)	Metals (ppm)	The state of the s	16th-pagagassa and a characteristic for the c	W
Sample ID	Color/Location of Material/Substrate No samples taken. No painted surfaces located.	As	Cr	Pb	СМ	Se	Ва	Hg	Ag
	The second secon								
ANNO DE LA CASA DE LA	TARABAN TARABA								



Scoping Estimate for Rehab:

Rte. H (Minor) over I-44 (Major)
Crawford County
Bridge No. A11922
Job No. J5P3515

		To	otal Est	imate:		\$434,000
Listing of Items		Un	its		Cost/Unit	Total Cost
Removal of Miscellaneous ACM (Non-Friable)	20				\$125 sf	\$2,500
Total Surface Hydro Demolition	222.5 x	28	1	9 x	\$50 sy	\$34,611
Removal of Concrete Wearing Surface	222.5 x	28	х		\$2.60 sf	\$16,198
Removal of Existing Deck Repair	125 x				\$60 sf	\$7,500
Bridge Approach Slab (Major)	0 x	20.00 x	2 /	9 x	\$300.00 sy	\$0
Supplementary Wearing Surface Material	5				\$700 cy	\$3,500
Latex Modified Concrete Wearing Surface	222.5 x	28	1	9 x	\$150 sy	\$103,833
Diamond Grinding	222.5 x	28	1	9 x	\$8 sy	\$5,538
Curb Blockout	222.52 x	2 x			\$155 If	\$68,981
Substructure Repair (Formed or Unformed)	10 x	1 x			\$165.00 sf	\$1,650
Half-Sole Repair	222.5 x	28 x	20% x		\$80 sf	\$99,680
Full Depth Repair	222.5 x	28 x	0% x		\$110 sf	\$0
Slab Edge Repair (Bridges)	222.5 x	2	3% x		\$200 If	\$2,670
Cleaning and Epoxy Coating	222.5 x	2 x	4.25		\$12 sf	\$22,695
Protective Coating - Concrete Bents and Piers (Epoxy)	196.35 x	3 x			\$12.00 sf	\$7,069
Cored Slab Drain	0 x	2 x			\$650.00 ea	\$0
Open Cell Foam Joint Seal	28 x	2 x			\$115.00 If	\$6,440
Miscellaneous Items/Contingency	3%					\$11,486
Staging	10%					\$39,435

Bridge Memorandum

Job No.: J5P3515 **Bridge No.:** A11922

County: Crawford Rte.: H (Minor) over I-44 (Major)

Final Layout: Use-in-Place, Redeck and Make Composite Existing (45',45',45') Simple Wide Flange Beam

Spans

Roadway Width: 22'-0" plus 16" Type H Barriers

Alignment: Tangent Skew: Square

Grade: Match existing plus $1" \pm (Add 1" \text{ to existing haunch})$

Loading: H15-44 (1957), HS20-44 (new construction)

Beg. Station: $274+72.00 \pm \text{(match existing)}$

Traffic Handling: Structure to be closed to traffic during construction.

Existing Bridge: Redeck N0910 and use in place.

Condition Ratings: Deck = 4, Superstructure = 5, Substructure = 6

Load Posting: Posted S4 for Centerline Only - Operating Rating = 26 tons (to be removed by making

composite)

GENERAL NOTES:

Remove existing bridge deck (non-composite), which includes curbs, end posts and rails as necessary.

Install 8" cast-in-place slab (P/S panels not allowed) with 3/16" per 1' cross slope. (3" Future Wearing Surface)

Stay-in-place forms for slab are permitted.

Make end bents integral.

Install 16" wide, Type H Barriers.

Estimated 100 sf of substructure repair (formed). 50 sf on Bent No. 2 beam cap and 50 sf on Bent No. 3 beam cap.

Apply Protective Coating - Concrete Bents and Piers (Epoxy) to all bents.

Make spans composite by adding shear connectors.

Install Slab Drains as required.

Recoat existing piles at Bents No. 2 & 3 with aluminum epoxy-mastic primer.

Provide saw cut joints in slab at CL of Int. Bents No. 2 & 3.

A vibratory screed is allowed.

AADT (2019) = 340, AADT Truck = 9.4% = 32 AADT (2039) = 425, AADT Truck = 9.4% = 40

SPECIAL NOTES:

Roadway surfacing adjacent to bridge ends to match top of bridge deck (Roadway Item).

Install object markers at bridge ends (Roadway Item).

Remove and re-key gabions further into stream bank to prevent further scouring (Roadway Item).

Rubblized existing bridge deck may be used on spill slopes (Roadway Item).

Sandblast and recoat all existing structural steel with System G (Gray) in a separate, paint-only contract at an estimated cost of \$47,000.

An asbestos and lead inspection has been performed on this structure (N0910). Results indicate that lead is present. The Bridge Division will include the inspection report in the electronic deliverables folder when submitting contract documents to the Design Division for the Letting (Bridge Item).

District Contact is Richard Orr, TPM (816) 387-2483

Bridge Division Contact is Joseph Alderson, SPM (573) 522-8722

FY'25 Programmed Bridge STIP Amount:	\$219,000
FY'25 Programmed Total Construction STIP Amount:	\$299,000
Estimated Working/Calendar Days (not including painting):	20/30
Estimated Working/Calendar Days for painting:	25/40
FY'25 Estimated Bridge Construction Cost*:	\$434,000

Bridge: Date:

Bridge: Date:

Structural Designer

Date:

Structural Project Manager

District: Date:

Transportation Project Manager

District: Date:

District Bridge Engineer

* Does not include inflation from Planning (3% compounded annually)

Scoping Estimate for Rehab:

Rte. H (Minor) over I-44 (Major) Crawford County Bridge No. A11922 Job No. J5P3515

		T	otal Est	imate:		\$434,000
Listing of Items		Un	its		Cost/Unit	Total Cost
Removal of Miscellaneous ACM (Non-Friable)	20				\$125 sf	\$2,500
Total Surface Hydro Demolition	222.5 x	28	1	9 x	\$50 sy	\$34,611
Removal of Concrete Wearing Surface	222.5 x	28	х		\$2.60 sf	\$16,198
Removal of Existing Deck Repair	125 x				\$60 sf	\$7,500
Bridge Approach Slab (Major)	0 x	20.00 x	2 /	9 x	\$300.00 sy	\$0
Supplementary Wearing Surface Material	5				\$700 cy	\$3,500
Latex Modified Concrete Wearing Surface	222.5 x	28	1	9 x	\$150 sy	\$103,833
Diamond Grinding	222.5 x	28	1	9 x	\$8 sy	\$5,538
Curb Blockout	222.52 x	2 x			\$155 If	\$68,981
Substructure Repair (Formed or Unformed)	10 x	1 x			\$165.00 sf	\$1,650
Half-Sole Repair	222.5 x	28 x	20% x		\$80 sf	\$99,680
Full Depth Repair	222.5 x	28 x	0% x		\$110 sf	\$0
Slab Edge Repair (Bridges)	222.5 x	2	3% x		\$200 If	\$2,670
Cleaning and Epoxy Coating	222.5 x	2 x	4.25		\$12 sf	\$22,695
Protective Coating - Concrete Bents and Piers (Epoxy)	196.35 x	3 x			\$12.00 sf	\$7,069
Cored Slab Drain	0 x	2 x			\$650.00 ea	\$0
Open Cell Foam Joint Seal	28 x	2 x			\$115.00 If	\$6,440
Miscellaneous Items/Contingency	3%					\$11,486
Staging	10%					\$39,435

Br. No. A11922 County: Crawford Date: 3/27/2023

Job No. J5P3515 Name: C. Ruether

Calendar/Working Days: Redeck

Bridge Removal:		SF	@	1300	SF/day	=		
Prebore:		LF	@		LF/day	=		
Substructure Excavation:		CY	@		CY/day	=		
Drive Piling:		LF	@		LF/day	=		
Intermediate Bent (3 column):		bents	@		days/each	=		
Rock Sockets:		LF	@		LF/day	=		
Drilled Shafts:		LF	@	25	LF/day	=		
End Bents:		bents	@	4	days/each	=		
P/S I-Girder Erection:		spans	@	1.5	days/span	=		
Structural Steel Erection:		lbs	@	60000	lbs/day	=		
Hinge Modification:		ea	@	1	ea/day	=		
Structural Deck Concrete:		CY	@	275	CY/day	=		
P/S Panel Erection:		spans	@	1.4	days/span	=		
Reinforcing Steel (Substr):		lbs	@	4000	lbs/day	=		
Reinforcing Steel (Super):		lbs	@	6200	lbs/day	=		
Total Superstructure (Steel):		spans	@	10.2	days/span	=		
Total Superstructure (PSI):		spans	@	7	days/span	=		
Safety Barrier Curb:	0	LF	@	525	LF/day	=	0.0	days
Bridge Approach Slab:	2	slabs	@	8	days/each	=	16	days
Painting:		SF	@	730	SF/day	=		
Mill Deck (1/4 "):		SF	@		SF/day	=		
Hydro Demolition:		SF	@		SF/day	=		
Remove Bridge Deck:	6230		@	2187.5	-	=	2.8	days
Asphalt Overlay:		SF	@		SF/day	=		
Low Slump Overlay:		SYD	@		SYD/day	=		
Polymer Concrete Overlay:		SF	@		SF/day	=		
Expansion Joint Replacement:		LF	@		LF/day	=		
Replace or Widen Deck:	0	SF	@		SF/day	=	0.0	days
Half - Sole Repair:		SF	@		SF/day	=		
Full Depth Repair:		SF	@		SF/day	=		
Slab Edge Repair:		LF	@		LF/day	=		
Unformed Substr Repair:		SF	@		SF/day	=		
Unformed Super Repair:		SF	@		SF/day	=		
Clean and Repaint Steel:		SF	@		SF/day	=		
MSE Wall:		SF	@	800	SF/day	=		

	Sum =	18.8	days	
'alandar dave - I lea -		25	daye	

Calendar da<u>ys = Use = 25 days</u>
Working days = Use = 15 days

Estimate for Paint:

H (Minor) over I-44 (Major) Crawford County Bridge No. A11922 Job No. J5P3515

Total Estimate	i I	\$47,000
Units	Cost/Unit	Total Cost
3400 x	\$9.00 sf	\$30,600
3400 x	\$3.00 sf	\$10,200
1000 x	\$3.00 sf	\$3,000
1000 x	\$3.00 sf	\$3,000
	Units 3400 x 3400 x 1000 x	3400 x \$9.00 sf 3400 x \$3.00 sf 1000 x \$3.00 sf

Bridge No. A11922 Crawford County C. Ruether Date 03/27/2023

Working Days and Estimating Quantities for Recoating Structural Steel Input Wide Flange Bridge Surface Preparation for Recoating = 3400 ft^2 Bridge Width = 20' Inorganic Zinc Primer = 3400 ft^2 Tons of steel = 31.8 tons Intermediate Field Coat = 1000 ft^2 Finish Field Coat = 1000 ft^2 Girder/Stringer Depth = 2.025' Length to be Painted = 132.1667' Pay Items Surface Preparation for Recoating Structural Steel 1) Install Work Platform (if necessary) Length = 132.1667' Width = 20' Area = 2643.333' ft^2 Number of platfoms = 1 Rate = 1/day Working Days 2) Installing Sand Blasting Containment Length = 132.1667' Width = 20' Height = 6.025' # sides = 2 # ends = 2 Needs top? No Needs bottom? Yes Area = 4476.942' ft^2 Base Production Rate = 1000 sf/day Rate Change = 100% Production Rate = 1000 sf/day 4 48 Working Days Working Days Use 5.00 3) Disposal of Hazardous Waste Weight = 2.383125 tons Waste Fraction = 0.075 ton/ton of steel Production Rate = 2 per 15 tons Use 2.00 Working Days 3) SSPC-SP10 Surface Preparation Production Rate Change = 3400 ft^2 50% Area = Production Rate = 500 sf/day 6.80 Working Days Working Days Use 7.00 Inorganic Zinc Primer ft^2 Area = 3400 Production Rate = 900 sf/day 3.78 Working Days Use Working Days 4.00 Intermediate Field Coat Area = 1000 ft^2 Production Rate = Working Days 900 sf/day 1.11 Working Days Use 2.00 Finish Field Coat ft^2 1000 Area = sf/day Production Rate = 900 1.11 Working Days Use 2.00 Working Days 85% of Total Working Days = 20

Calendar Days =

30

MoDOT

Missouri Department of Transportation State Bridge Inspection Report

December 20, 2022 7:03:51AM

COUNTY: CRAWFORD DISTRICT: CD CLASS: STATBR FED-ID: 1148 BRIDGE: A1383

GENERAL STRUCTURE INFORMATION ***BRIDGE INSPECTION INFORMATION*** **ROUTE: RTFS** # **SPANS**: 4 PLACE CODE: 39242 KNOBVIEW **DATE:** 05/11/2022 **RESPONSIBILITY: DISTRICT FEATURE: IS 44** LANES ON: 2 LENGTH: 203 FT 0 IN FREQUENCY: 24 **CALCULATED INTERVAL**: 20 LANES UNDER: 4** STATUS: A-OPEN MAXIMUM SPAN: 58 FT 0 IN TEAM LEADER: MICHAEL MEYERHOFF **ELEMENT: NO LOG MILE: 15.166 COMPASS DIRECTION:** SOUTH to NORTH APPROACH ROADWAY: 20 FT 0 IN **INSPECTOR 2:** JOE GREEN **INSPECTOR 4: DETOUR: 12.00 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:** 1966 **NBI OWNER: MODOT AADT: 857 GENERAL INSPECTION COMMENTS REHAB:** 1987 **NBI MAINTAINED: MODOT** AADT YEAR: 2021 **MAINTENANCE DISTRICT: CD** LOCATION: S 4 T 38 R 5 W **AADT TRUCK:** 11.5% **LATITUDE:** 38 2 39.39 (DMS) **MAINTENANCE COUNTY: CRAWFORD FUTURE AADT: 1200 LONGITUDE:** 91 29 13.62 (DMS) SUB AREA: 7D17 **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*** **CATEGORY: CATEGORY:** DATE: **DATE: RESPONSIBILITY: RESPONSIBILITY:** FREOUENCY: FREOUENCY: **CALCULATED INTERVAL**: NBI**: 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. 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**

Missouri Department of Transportation State Bridge Inspection Report

December 20, 2022 7:03:51AM

COUNTY: CRAWFORD DISTRICT: CD CLASS: STATBR FED-ID: 1148 BRIDGE: A1383 ***STRUCTURE POSTING*** **APPROVED CATEGORY: S-1** NO POSTING REQUIRED **Ton 1: Ton 2: Ton 3: COMMENTS:** FIELD CATEGORY: S-1 NO POSTING REQUIRED **PROBLEM: Ton 1: Ton 2: Ton 3:** PROBLEM DIRECTION: **COMMENTS:** ***GENERAL COMMENTS/MAJOR RATED ITEMS*** GENERAL COMMENTS: (BOWDEJ1, 08/28/2008)--(43'-58'-58'-43') CONT VOIDED CONC SLAB SPANS [ITEM 58] DECK: 6-SATISFACTORY CONDITION **COMMENTS:** (TRAMPA, 10/27/2016)--CRACK & LE; (RAITHK, 11/09/2020)--MANY DELAMS THRUOUT **RATING:** 11/09/2020 [ITEM 59] SUPER: 6-SATISFACTORY CONDITION COMMENTS: (MADSEJ, 09/09/2014)--VERTICAL AND HORIZONTAL CRACKS ON THE SLAB EDGE OVER THE INTERMEDIATE BENTS WITH LIGHT EFFLORESCENCE. (RAITHK, 11/09/2020)--DET AT INT BENTS THRUOUT **RATING:** 11/09/2020 [ITEM 60] SUB: 6-SATISFACTORY CONDITION COMMENTS: (MADSEJ, 09/09/2014)--CRACKING, LEACHING, AND DETERIORATION ON ALL WINGWALLS. **RATING:** 05/18/2001 [ITEM 61] BANK/CHANNEL: N-NOT APPLIC NO WATRWAY **COMMENTS: RATING:** 05/18/2001 [ITEM 113] SCOUR: N-NOT APPLIC NOT WATERW **COMMENTS: RATING:** 05/18/2001 **EVALUATION TYPE:** [ITEM 71] WATERWAY ADEQUACY: NOT APPLICABLE **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:** 02/09/2007 **COMMENTS: DIRECTION MATERIAL CONSTRUCTION COMMENTS** REINFORCED CONCRETE **PARAPET BOTH BOTH** REINFORCED CONCRETE **CURB CONDITION** LOCATION 1 **SEVERITY LOCATION 2 COMMENT** THROUGHOUT **MODERATE DETERIORATION** THROUGHOUT **MODERATE** REBAR EXPOSED **SCALING THROUGHOUT MEDIUM ALUMINUM** CIRCULAR TUBE **BOTH** [ITEM 36B] TRANSITION RAILING RATING: DOESN'T MEET CURRN'T STND-0 **RATING:** 02/09/2007 **COMMENTS:** [ITEM 36C] APPROACH RAILING RATING: MEETS CURRENT STANDARDS-1 **RATING:** 05/18/2001 **COMMENTS:**

Design No = a1383

December 20, 2022 7:03:51AM

FAIR

GOOD

SILANE

Missouri Department of Transportation State Bridge Inspection Report

COUNTY: CRAWFORD DISTRICT: CD CLASS: STATBR FED-ID: 1148 BRIDGE: A1383

CONSTRUCTION **DIRECTION COMMENTS** MATERIAL **GALVANIZED STEEL** W-BEAM ALL

[ITEM 36D] RAIL END TREATMENT RATING: DOESN'T MEET CURRN'T STND-0 **RATING:** 02/09/2007 **COMMENTS:**

MATERIAL **CONSTRUCTION DIRECTION COMMENTS GALVANIZED STEEL** TURN DOWN SECTION > 45 **ALL** (RAITHK, 02/19/2019)--MINOR COLL DAMAGE NE SIDE WRAPPED ONTO NW AND SE RAMPS

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

CONDITION* MATERIAL CONSTRUCTION DIRECTION COMMENTS ASPHALT BITUMINOUS MAT BOTH **POOR**

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

DECK PROTECTIVE COMPONENTS: SERIES TYPE-# **COMPONENT MATERIAL CONSTRUCTION THICKNESS** YEAR APPLIED *MANUFACTURE* **OVERALL CONDITION**

COMMENT:

MAIN SERIES-1

MODOT

CONDITION LOCATION 1 LOCATION 2 **SEVERITY COMMENT**

MAP CRACKS **THROUGHOUT MEDIUM** TRANSVERSE CRACKS **THROUGHOUT FEW**

LIQUID SEALANT

LIQUID SEALANT

PLAIN CONCRETE

2022

DECK PROTECTION COMMENT:

WEARING SURFACE

MEMBRANE

COMMENT:

DRAINAGE COMPONENTS:

COMPONENT MATERIAL CONSTRUCTION DIRECTION COMMENTS

EXPANSION DEVICE COMPONENTS:

SUB UNIT-# SUB LABEL **COMPONENT** MATERIAL **CONSTRUCTION OVERALL CONDITION** GAPYEAR APPLIED **MANUFACTURE**

LOW SLUMP

INTERNALLY SEALED

BUILT-UP

2.2 IN

COMMENT:

BANK/SLOPE PROTECTION COMPONENTS:

COMPONENT MATERIAL CONSTRUCTION DIRECTION COMMENTS SLOPE PROTECTION EARTH FILL **BERM** BOTH

DECK COMPONENTS

CONSTRUCTION MATERIAL SPAN TYPE-# **COMPONENT COMMENTS**

MAIN SPANS-1 DECKREINFORCED CONCRETE CAST-IN-PLACE

CONDITION LOCATION 1 LOCATION 2 SEVERITY MEASUREMENT COMMENT

TRANSVERSE CRACKS **FEW RANDOM**

REINFORCED CONCRETE MAIN SPANS-2 DECKCAST-IN-PLACE

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

Design No = a1383

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Missouri Department of Transportation State Bridge Inspection Report

COUNTY: CRAWFORD DISTRICT: CD CLASS: STATBR FED-ID: 1148 BRIDGE: A1383

OVER INTERMEDIATE BENT FEW DELAMINATION OVER INTERMEDIATE BENT TRANSVERSE CRACKS MANY TRANSVERSE CRACKS **RANDOM** FEW MAIN SPANS-3 DECKREINFORCED CONCRETE CAST-IN-PLACE **CONDITION** LOCATION 1 LOCATION 2 SEVERITY **MEASUREMENT COMMENT** DELAMINATION OVER INTERMEDIATE BENT **FEW** TRANSVERSE CRACKS OVER INTERMEDIATE BENT MANY **FEW** TRANSVERSE CRACKS RANDOM MAIN SPANS-4 DECK CAST-IN-PLACE REINFORCED CONCRETE **CONDITION** LOCATION 1 **LOCATION 2 SEVERITY MEASUREMENT COMMENT RANDOM FEW** DELAMINATION **DIAGONAL CRACKS RANDOM FEW** TRANSVERSE CRACKS RANDOM **FEW** ***SUPERSTRUCTURE COMPONENTS*** SERIES TYPE-# SPAN TYPE MATERIAL **CONSTRUCTION LABEL COMMENTS** REINFORCED CONCRETE MAIN SERIES-1 CONTINUOUS SPAN VOIDED SLAB **SPAN COMPOSITE INDICATOR LENGTH WEATHERING STEEL COMMENTS** MAIN SPANS-1 NON-COMPOSITE 43 FT 4 IN NO **CONDITION** LOCATION 1 **SEVERITY LOCATION 2 MEASUREMENT COMMENT DETERIORATION** AT INTERMEDIATE BENT **MINOR** MAIN SPANS-2 NON-COMPOSITE 58 FT 0 IN NO **CONDITION LOCATION 1** LOCATION 2 **SEVERITY MEASUREMENT COMMENT** AT INTERMEDIATE BENT **DETERIORATION** MINOR MAIN SPANS-3 NON-COMPOSITE 58 FT 0 IN NO **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY MEASUREMENT COMMENT** AT INTERMEDIATE BENT **DETERIORATION** MINOR MAIN SPANS-4 NON-COMPOSITE 43 FT 4 IN NO LOCATION 2 **SEVERITY CONDITION** LOCATION 1 **MEASUREMENT COMMENT** ***SUBSTRUCTURE COMPONENTS*** **SUBSTRUCTURE** SKEW **LENGTH** MATERIAL CONSTRUCTION LABEL **COMMENTS** ABUTMENT-1 LA-15 DEGREES 29 FT 9 IN REINFORCED CONCRETE NON-INTEGRAL **CONDITION** LOCATION 1 **LOCATION 2 SEVERITY** MEASUREMENT COMMENT ASSOCIATED COMPONENT **CONSTRUCTION MATERIAL** BEAM CAP CAST-IN-PLACE REINFORCED CONCRETE **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY** MEASUREMENT COMMENT **DETERIORATION ENDS MINOR SPALLS RANDOM SMALL PILING** STEEL H-SHAPE **CONDITION** LOCATION 1 LOCATION 2 SEVERITY MEASUREMENT COMMENT REINFORCED CONCRETE STRAIGHT WINGS **CAST-IN-PLACE CONDITION** LOCATION 1 LOCATION 2 **SEVERITY** MEASUREMENT COMMENT

Design $N_0 = a1383$

MODOT

December 20, 2022 7:03:51AM

Missouri Department of Transportation State Bridge Inspection Report

CO	UNTY: CRAWFORD	DISTRICT: CD	CLASS: STATBR	FED-II	D: 1148	BRIDGE: A1383			
	DETERIORATION	THROUGHOUT		MODERATE					
BENT-2	LA-15 DEGREES	REINFORCED CONCRETE	MULTIPLE COLUMN						
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	MEASUREMENT	<u>COMMENT</u>			
<u>ASSOCIAT</u>	<u>TED COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>						
COLUMN		REINFORCED CONCRETE	INTEGRAL CAST-IN-PLACE						
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>			
	HORIZONTAL CRACKS	TOP		FEW					
FOOTING		REINFORCED CONCRETE	SPREAD						
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>			
BENT-3	LA-15 DEGREES	REINFORCED CONCRETE	MULTIPLE COLUMN						
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>			
	TED COMPONENT	<u>MATERIAL</u>	<u>CONSTRUCTION</u>						
COLUMN		REINFORCED CONCRETE	INTEGRAL CAST-IN-PLACE						
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>			
	HORIZONTAL CRACKS	ТОР		FEW					
FOOTING		REINFORCED CONCRETE	SPREAD	CELEBIAN	ACCUMPAGE OF	COLUMNIT			
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT			
BENT-4	LA-15 DEGREES	REINFORCED CONCRETE	MULTIPLE COLUMN	-					
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>			
	<u>'ED COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>						
COLUMN		REINFORCED CONCRETE	INTEGRAL CAST-IN-PLACE	CELEBIAN	ACCUMENTED	COLUMNIT			
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>			
FOOTING	HORIZONTAL CRACKS	TOP	SPREAD	FEW					
FOOTING	<u>CONDITION</u>	REINFORCED CONCRETE <i>LOCATION 1</i>	LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT			
	CONDITION	<u>LOCATION I</u>	<u>LOCATION 2</u>	<u>SEVERIII</u>	MEASUREMENT	<u>COMMENT</u>			
ADLIENTENES	LA 15 DECREES 20 FT	O DE DEDUCADED CONCRETE	NON INTEGRAL						
ABUTMENT-5	LA-15 DEGREES 29 FT CONDITION	9 IN REINFORCED CONCRETE LOCATION 1	NON-INTEGRAL LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT			
ASSOCIATI	TED COMPONENT	<u>LOCATION I</u> MATERIAL	<u>LOCATION 2</u> CONSTRUCTION	<u>SEVERITI</u>	<u>MEASUKEMENI</u>	<u>COMMENT</u>			
BEAM CA		REINFORCED CONCRETE	CAST-IN-PLACE						
BEAM CA	<u>CONDITION</u>	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT			
	DETERIORATION	ENDS	<u>LOCATION 2</u>	MINOR	MEASUREMENT	COMMENT			
	SPALLS	RANDOM		SMALL		(RAITHK, 11/09/2020)DID NOT SEE 2020			
PILING		STEEL	H-SHAPE			(14.1111., 11.07.2020) 515 110 1 525 2020			
	CONDITION	<u>LOCATION 1</u>	LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT			
STRAIGHT		REINFORCED CONCRETE	CAST-IN-PLACE						
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	MEASUREMENT	<u>COMMENT</u>			
	DETERIORATION	THROUGHOUT		MODERATE					
OVER/UNDER ROUTES CLEARANCE INFORMATION									
OYEMUNDEN ROUTES CLEARANCE INFORMATION									

CLEARANCES OVER DECK

MODOT

**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> <u>DATE</u>

COMMENT

Missouri Department of Transportation
State Bridge Inspection Report

December 20, 2022 7:03:51AM

COUNTY: CRAWFORD DISTRICT: CD CLASS: STATBR FED-ID: 1148 BRIDGE: A1383

CLEARANCES UNDER BRIDGE *NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance. RECORD # LEFT LATERAL CLEARANCE **DIRECTION OF TRAFFIC** RIGHT LATERAL CLEARANCE **UR-ID ROUTE** # LANES IS 44 E 2688 1-WAY TRAF 2 10 FT 7 IN 18 FT 7 IN **VERTICAL CLEARANCE TYPE** DIRECTION DATE COMMENT VALUE**

RECORD #ROUTE# LANESDIRECTION OF TRAFFICRIGHT LATERAL CLEARANCELEFT LATERAL CLEARANCEUR-ID2IS 44 W21-WAY TRAF10 FT 7 IN18 FT 7 IN2689

VERTICAL CLEARANCE TYPE**VALUEDIRECTIONDATECOMMENTACTUAL16 FT 1 IN11/29/2011

16 FT 10 IN

STRUCTURE PAINT INFORMATION

CONDITION: RUST AMOUNT: STEEL TONS: 0

ORIGINAL PAINT CONTRACT REPAINT DEPARTMENT REPAINT

PAINT TYPE: PAINT TYPE: PAINT TYPE: MANUFACTURE: NAME: NAME: SURFACE PREP:

PAINT COLOR:
PAINT YEAR:
PAINT YEAR:
PAINT YEAR:
PAINT YEAR:
PAINT YEAR:

MILS:

MILS:

MILS:

MILS:

REQUESTED WORK ITEMS

RESPONSIBILITY LOCATION ITEM CATEGORY PRIORITY DATE WORK ITEM COMMENT

DISTRICT SPECIAL ROADWAY SURFACE SEAL WITH SILANE DECK 3 08/31/2028

UTILITY ATTACHMENTS

UTILITY OWNER METHOD MEASUREMENT TYPE VALUE NUMBER UTILITY ATTACHMENT COMMENT

PROGRAM NOTES INFORMATION

YEAR PROJECT # MONTH LET YEAR LET ITEMS COMMENT

Design No = a1383

MODOT

ACTUAL

GENERAL WORK COMMENTS:



Missouri Department of Transportation State Bridge Inspection Report

December 20, 2022 7:03:51AM

COUNTY: CRAWFORD DISTRICT: CD CLASS: STATBR FED-ID: 1148 BRIDGE: A1383

COUNTY: CRA	WFORD DISTRICT: CD	CLASS: STATBR	FED-1D: 1148	BRIDGE: A1383		
COMI	PUTER GENERATED RATINGS AND D	EFICIENCY ITEMS		***ADVANCED S	SIGN INFORMATION*	**
NOTE: The items listed in this section are	updated whenever computer edits are ran on a structu	re 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	3/7/2003				
[Item 68] Deck Geometry Rating:	5-BETTER THAN MINIMUM	3/5/2019				
[Item 69] Underclearance:	4-MEETS MINIMUM TOLERABLE	1/26/2022				
Sufficiency Rating:	68.6%	2/22/2022				
Deficiency:	NOT DEFICIENT	3/7/2003				
Funding Eligibility:				***OUTFALL INSPE	CCTION INFORMATIO	N***
Estimated New Structure Length:						
Estimated Structure Cost:			# OUTFALLS:	INSI	PECTOR:	
Estimated Total Project Cost:			STATUS:		DATE:	
Year of Cost Estimate:			NOTES:			
generalized to use NBI items to come up wit	estimates are computer generated using algorithms in the a new structure length and width to calculate a new just may vary significantly from these numbers once si	area which is taken times a representative cost per				

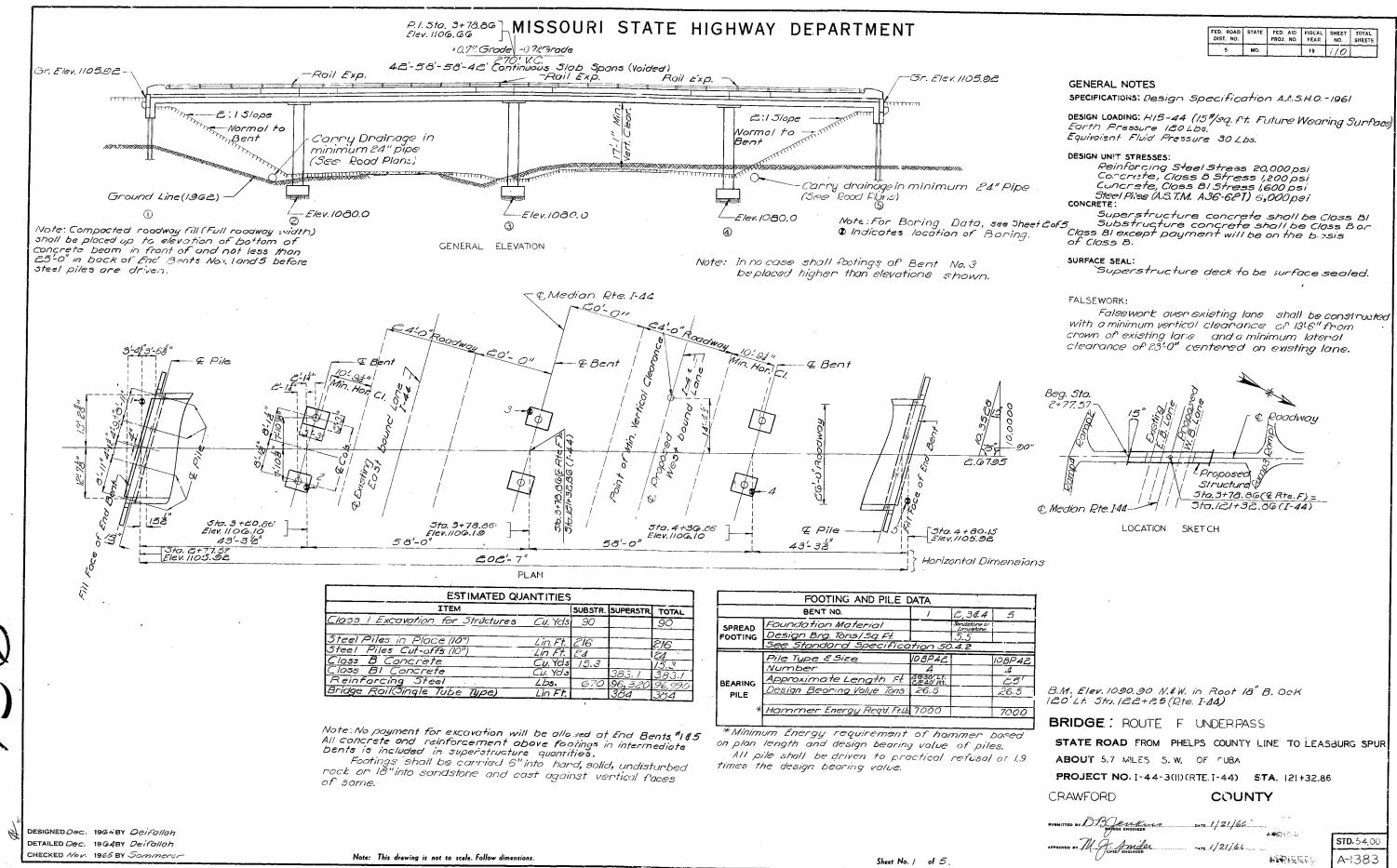


Missouri Department of Transportation State Bridge Inspection Report

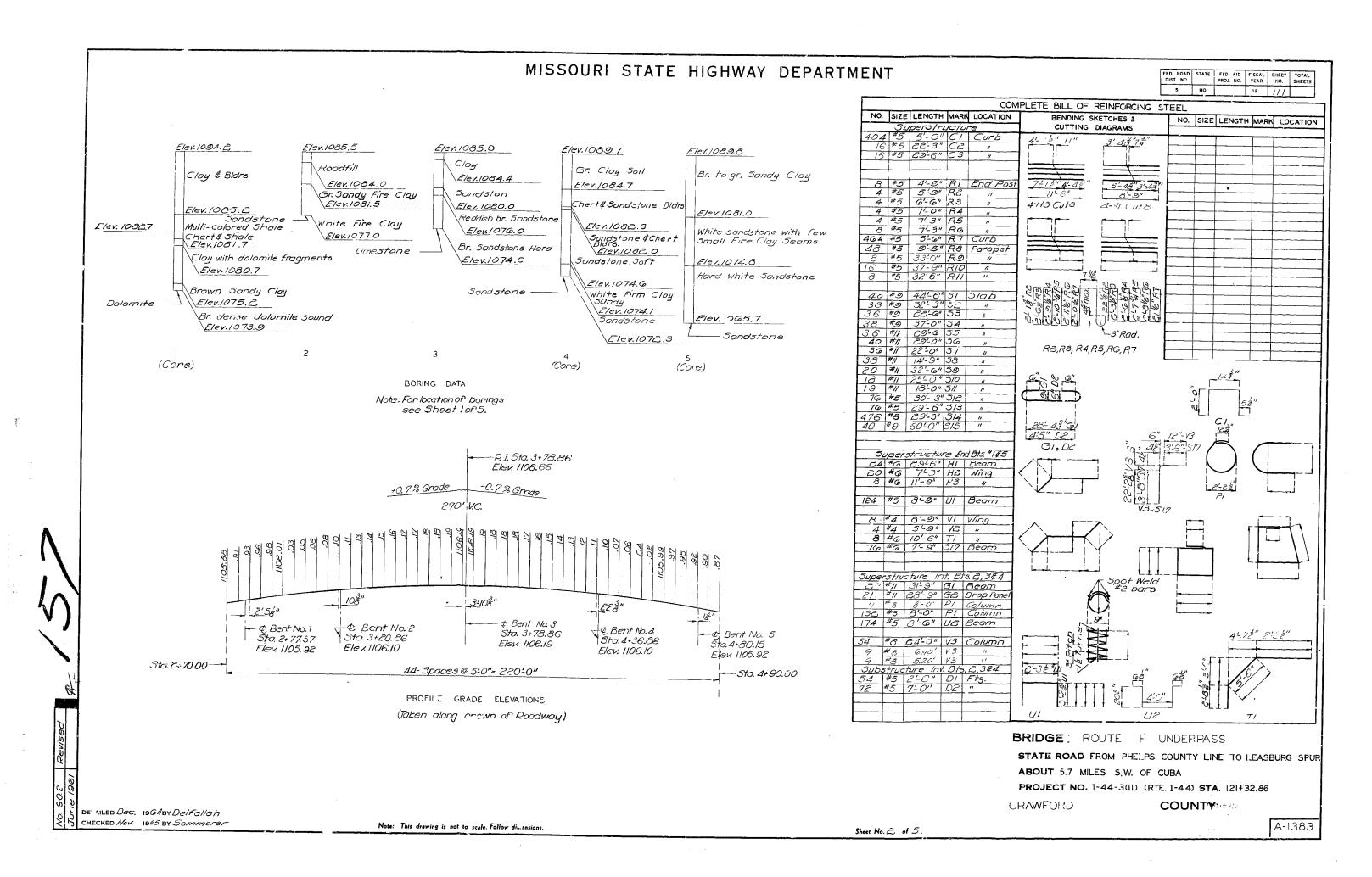
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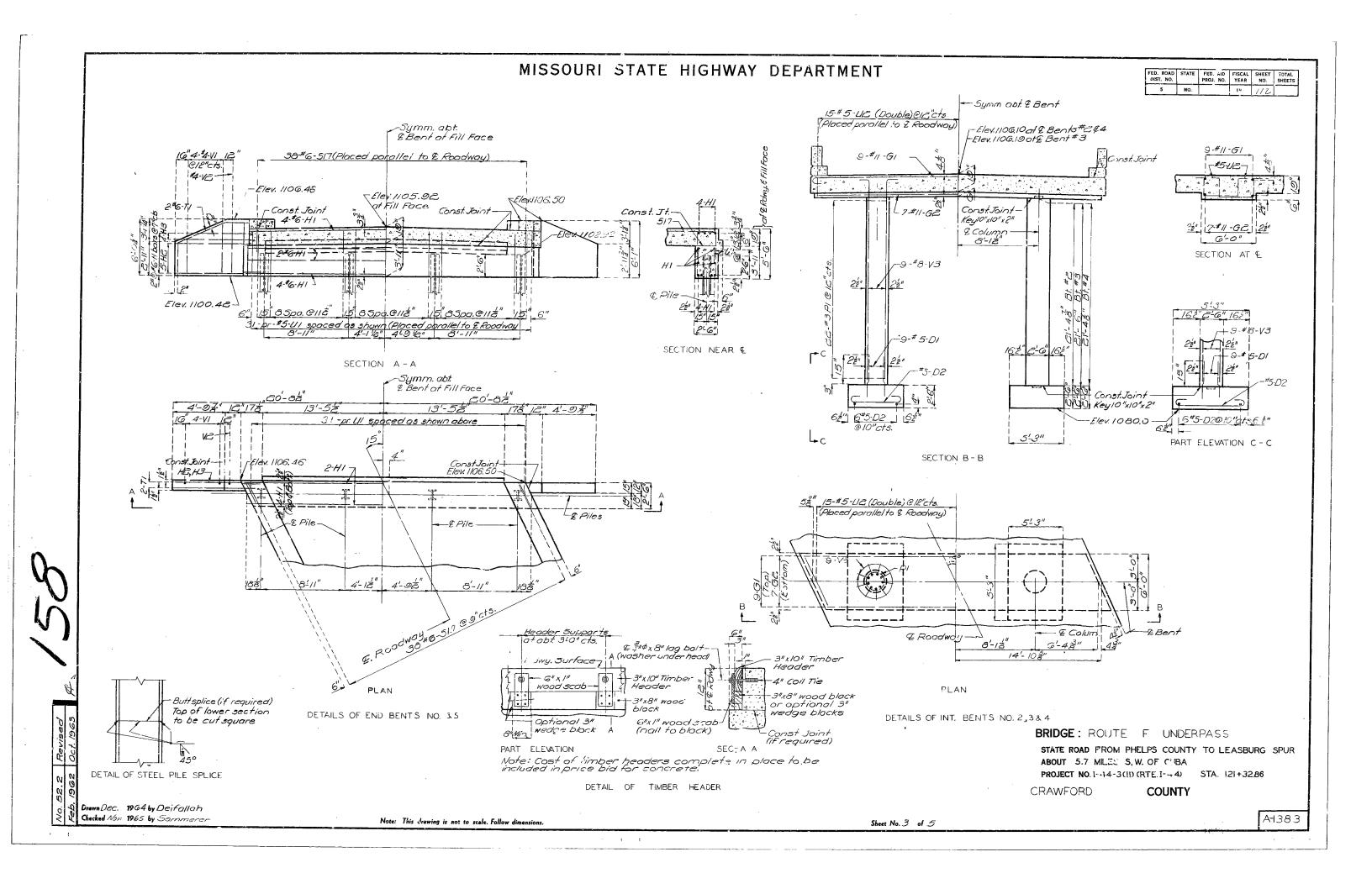
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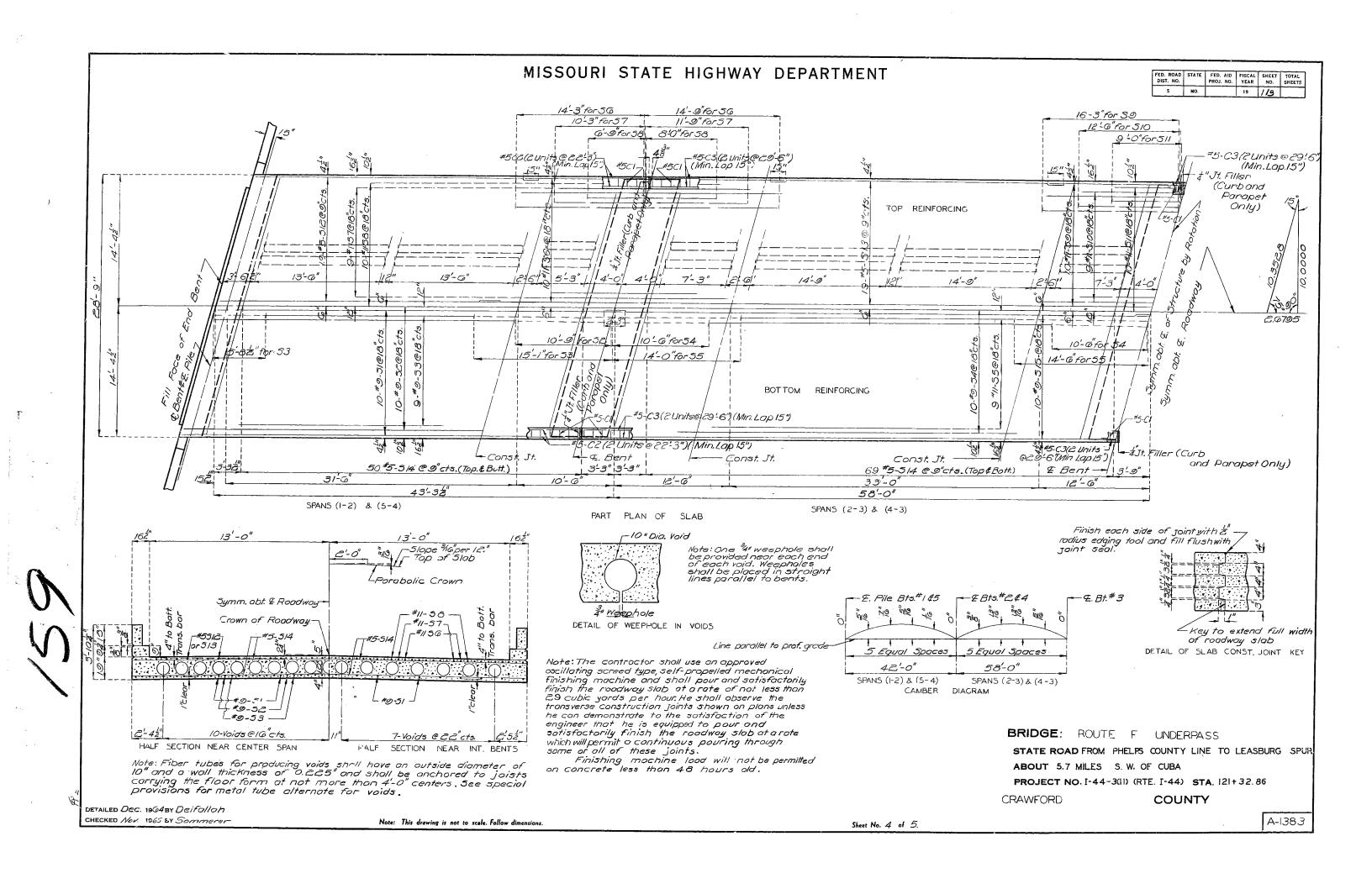
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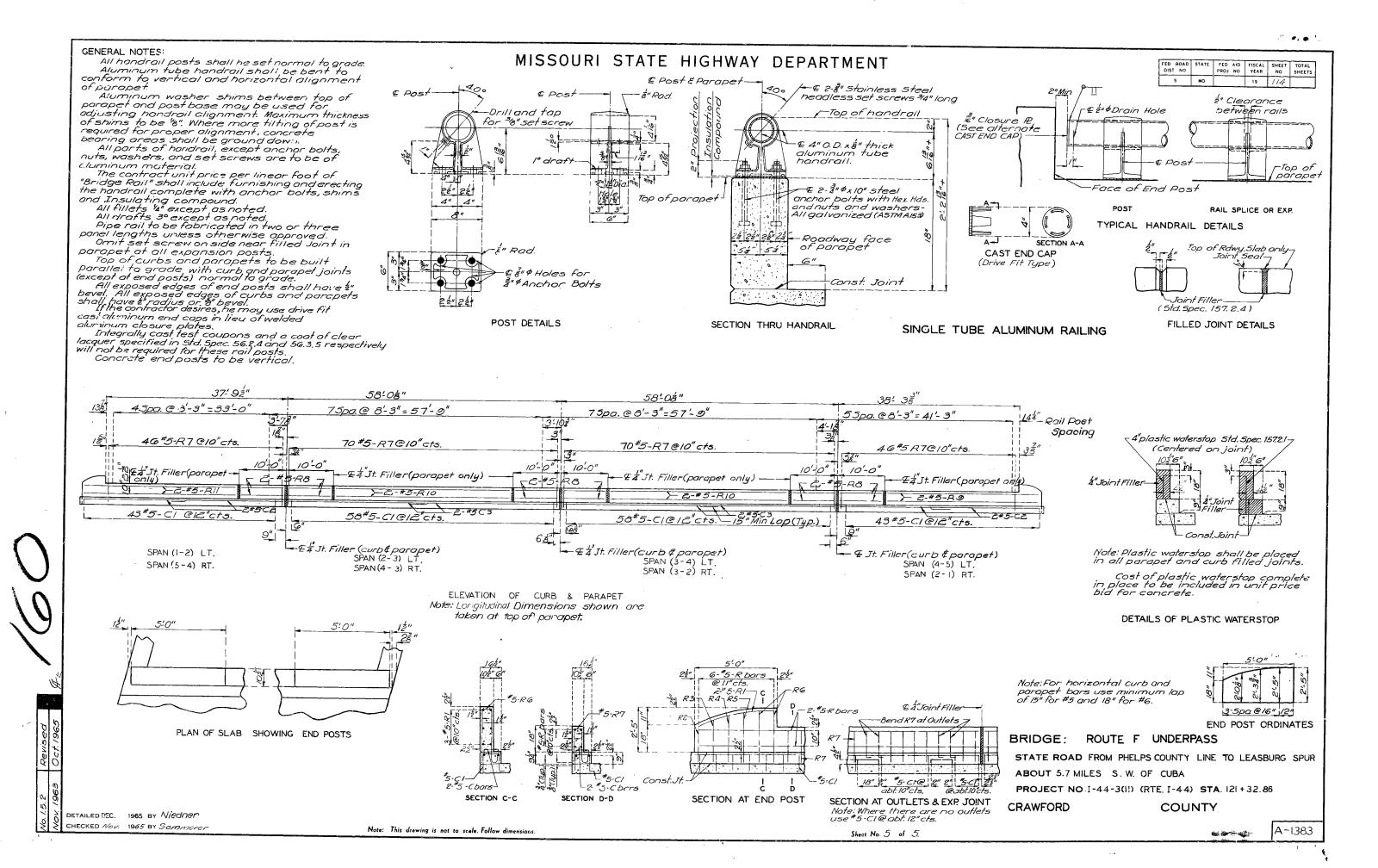


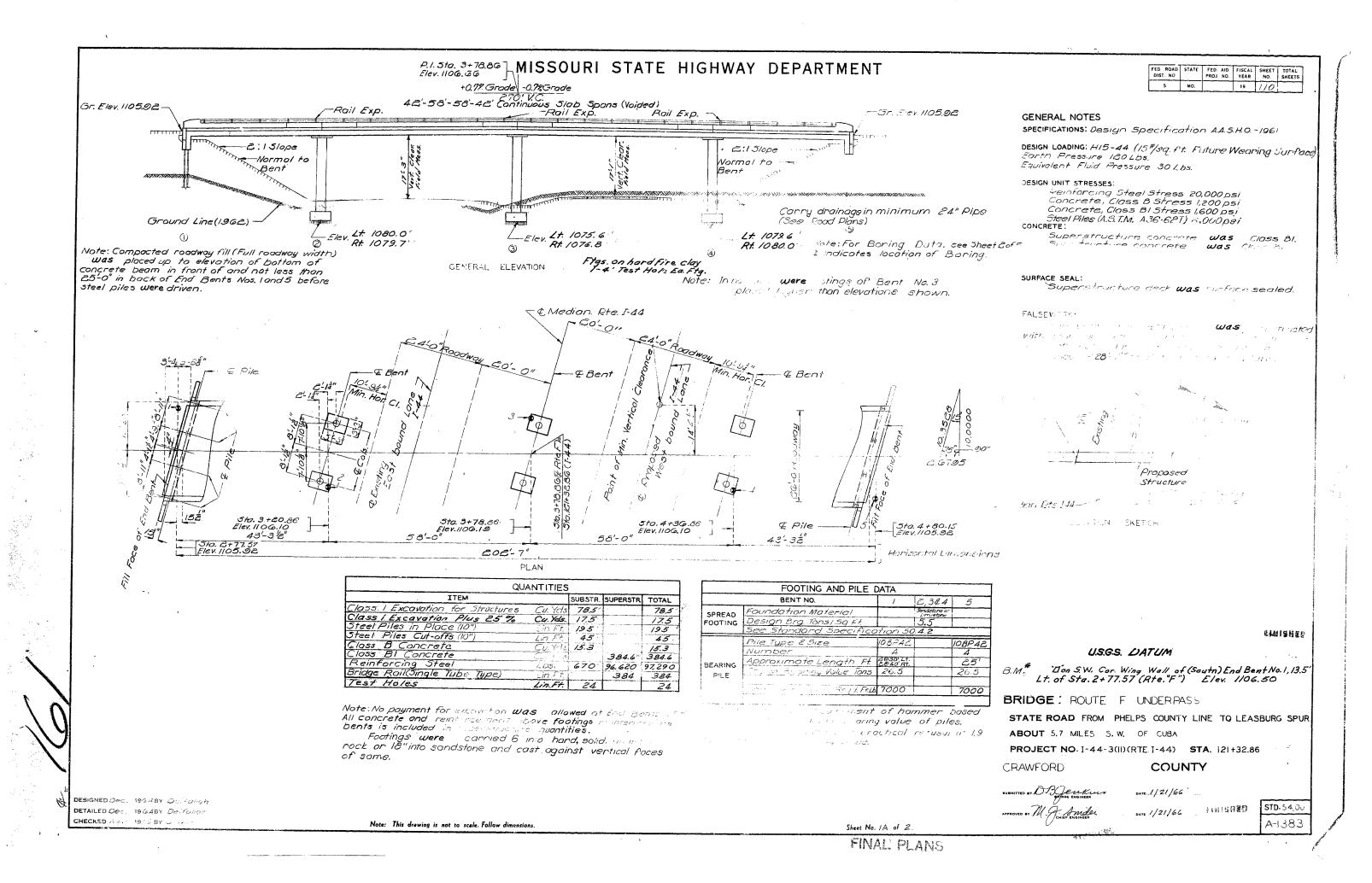
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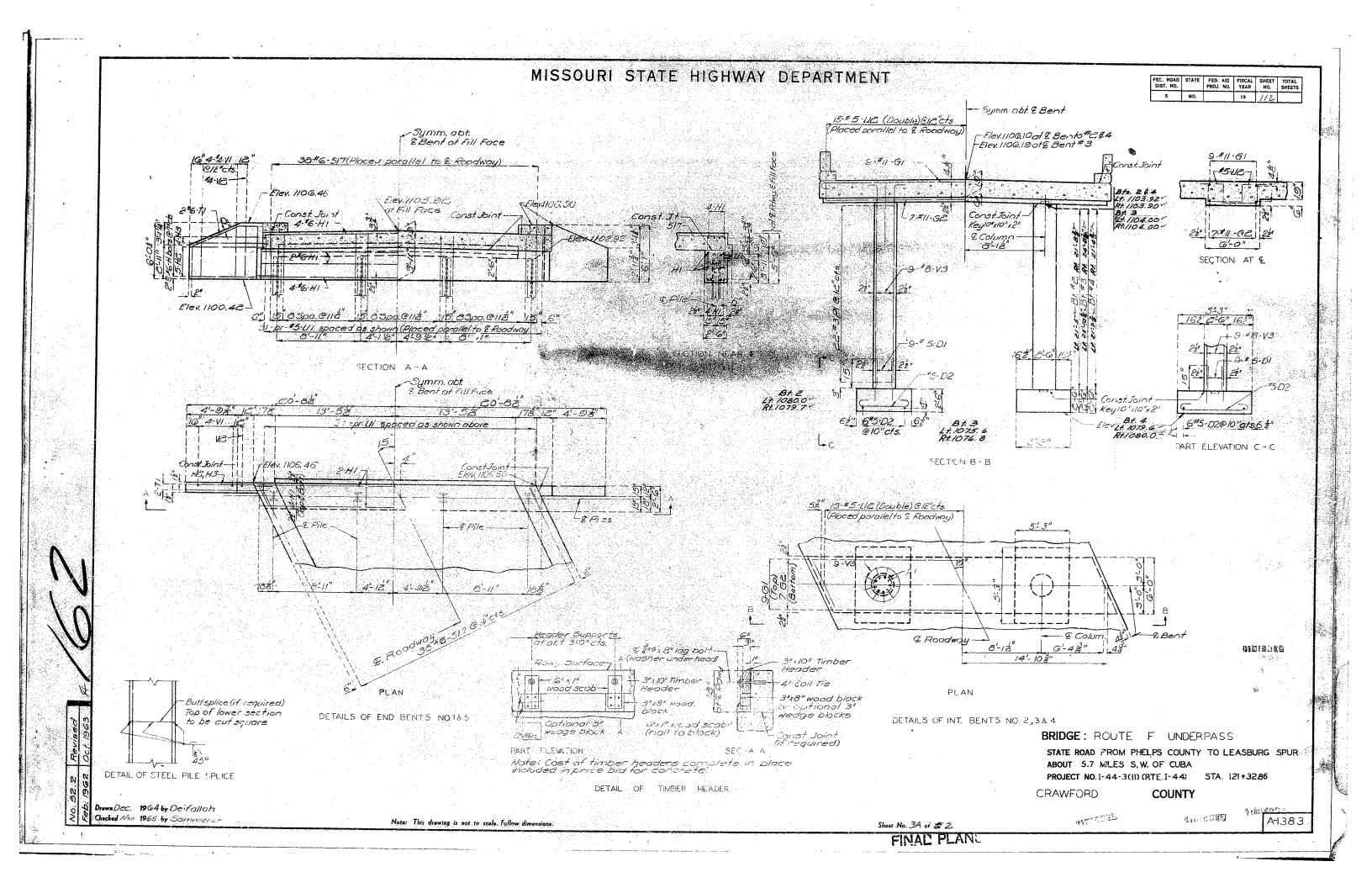


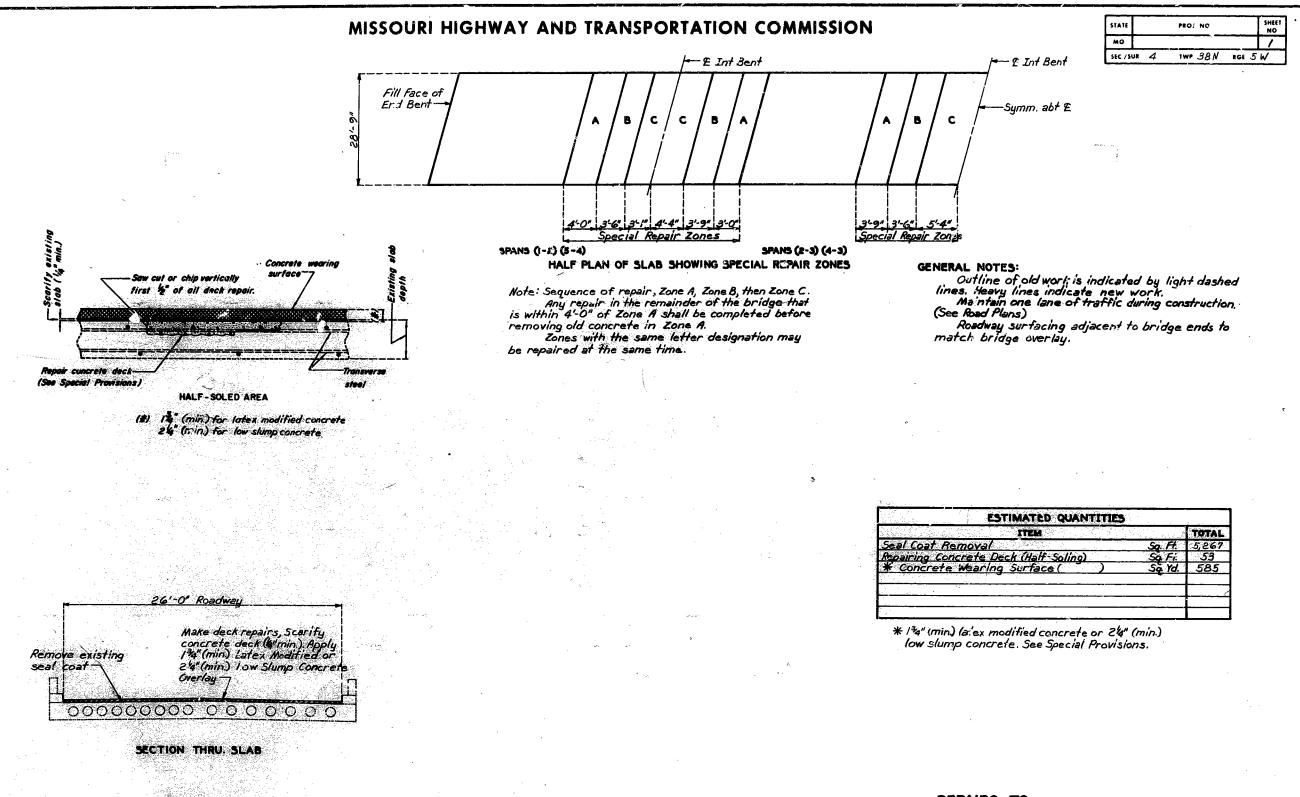












REPAIRS TO BRIDGE: ROUTE F UNDERPASS

STATE ROAD FROM PHELPS CO. LINE TO LEASBURG SPUR

ABOUT 5.7 MILES S.W. OF CUBA

PROJECT NO. IR-44-3(55)

STA. 121+32.86 (& MED.)

JOB NO. 6-1044-809 CRAWFORD RTE. 1-44
COUNTY

std. A-1383R

STD.

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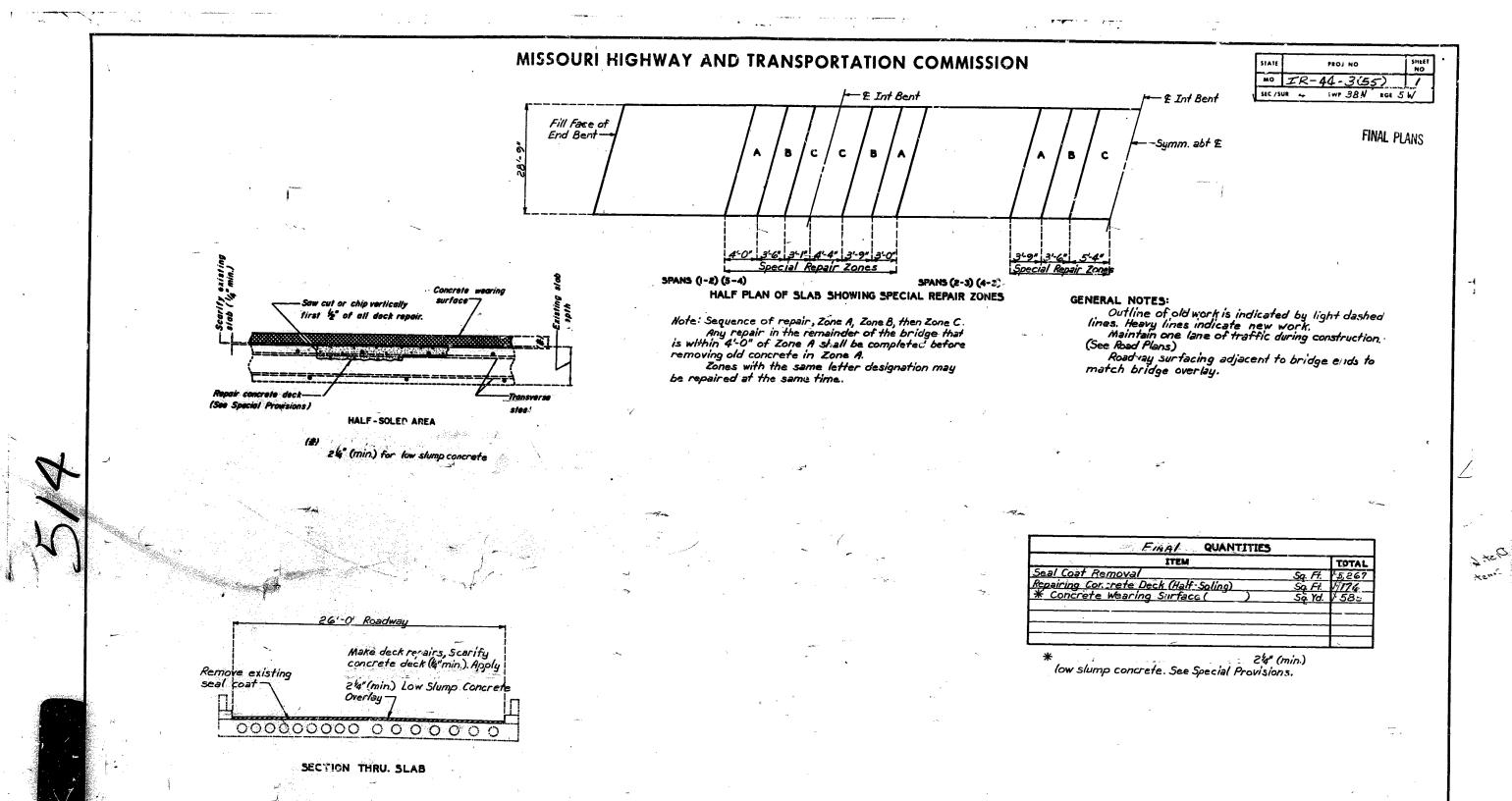
SEE FINAL PLANS

Sheet No. 1 of 1.

DETAILED JUNE 1987
CHECKED JUNE 1987
Note: This

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

DATE 9/25/87



REPAIRS TO BRIDGE: ROUTE F UNDERPASS

STATE ROAD FROM PHELPS CO. LINE TO LEASBURG SPUR ABOUT 5.7 MILES S.W. OF CUBA

PROJECT NO. IR-44-3(55)

STA. 121 + 32.86 (€ MED.)

JOB NO. 6-1044-809 CRAWFORD

RTE. 1-44 COUNTY

STD.

STD.

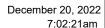
DETAILED JUNE 1987 CHECKED JUNE 1987

Note: This drawing is not to scale. Follow dimension

Sheet No. 1 A of 1.

DATE 9/25/97

A-1383R



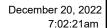


COUNTY: CRAWFORD A1383 R REVIEW STATUS: APPROVED P **BRIDGE:** NBI STATUS: 2ND RTE THAT GOES 'UNDR'S 3/8/2022 2021 **RECORD TYPE:** RUN DATE: **SUBMITTAL YEAR:** GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION State 2ND RTE THAT GOES 'UNDR'S Code: B MISSOURI 5A Record Type District 5B CD Route Signing Prefix MAINLINE CRAWFORD County 5C Designated Level of Service 00044 Federal ID No. 1148 8 5D Route Number 1966 NOT APPLICABLE 27 Year Built 5E Directional Suffix RT F S 106 0 7 Year Reconstructed Facility Carried HIGHWAY Type of Service On 12 Base Hwy. 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 NONE EXISTS 101 28A Parallel Struc Desg 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 15048 4 Place KNOBVIEW 29 AADT 39242 2021 Code 30 AADT Year 1-WAY TRAFFIC S 4 T 38 N R 5 W Location 102 Direction of Traffic 11 Milepoint 89.55 miles 35% 109 AADT Truck Percent 16 Latitude 38 D 2 M 39 S 114 Future AADT 17 Longitude 91 D 29 M 14 S 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION IS 44 10 16 Ft. 1 In. Inventory Rte. Vert. Clear Features Intersected 42B HIGHWAY 19 0.00 miles Type of Service Under By pass Detour Length 02 28B Lanes Under Structure 32 Approach Roadway Width 54A Vert. Clearance Ref. 34 Skew 54B Vert. Clearance 35 Struct. Flared Rt. Lat Clear Ref. Total Horiz. Clear 26 Ft. 3 In. 55A 47 55B Rt. Lat Clearance 48 58 Ft. 1 In. Maximum Span Length 203 Ft. 1 In. Left Lat Clearance 49 Structure Length Navigation Control 50A 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



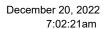
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COUNTY: CRAWFORD A1383 R REVIEW STATUS: APPROVED P **BRIDGE:** NBI STATUS: 3/8/2022 2021 2ND RTE THAT GOES 'UNDR'S **SUBMITTAL YEAR: RECORD TYPE: RUN DATE:** LOAD RATING AND POSTING INFORMATION MATERIAL/CONSTRUCTION INFORMATION 43A Main Struc. Mat type CONCRETE CONTINUOUS Design Load SLAB 41 Structure Status 43B Main struc Constr. Type 63 45 Oper. Rating Meth. # of Main Spans Operating Rating 44A Appr Struc. Mat type 44B Appr Struc. Cnstr. type 65 Inventory Rating Meth 46 # of Approach Span Inventory Rating 70 107 Deck Mat/Constr. Bridge Posting Code 108A Wear Surf Mat/Constr. PROPOSED IMPROVEMENT INFORMATION 108B Membrane Mat/Constr. Sufficiency Rating 108C Deck Protect Mat/Constr. Deficiency Rating CONDITION RATING INFORMATION Funding Eligibility Proposed Work 58 Deck Cond. Rating 75B Work Done By 59 Superstructure Cond. Rating 76 New Struc Length 60 Substructure Cond. Rating 94 Struc Improve Cost 61 Channel / Channel Protection Cond. Rating 95 Roadway Improve Cost 62 Culvert Cond. Rating 96 Total Project Cost INSPECTION INFORMATION Year of Cost Estimates 90 Gen. Insp Date APPRAISAL RATING INFORMATION 91 Gen. Insp. Frequency 36A Br. Rail App. Rating 92A Frac. Critical Inspection 36B 93A Transition Rail App. Rating Frac. Critical Insp. Date 36C Approach Rail App. Rating 92B Underwater Inspection 36D Rail End Treat. App. Rating 93B Underwater Insp. Date 67 Struc Eval App. Rating 92C Special Inspection Deck Geometry App. Rating 93C Special Inspection Date 69 Underclearance App. Rating BORDER BRIDGE INFORMATION 71 Waterway Adeq. App. Rating 98 Neighboring State Code 72 Approach Road App. Rating 98B Neighboring State % Respon 113 Scour Assess App. Rating 99 Neighboring State Struc. No. APPROVED POSTING INFORMATION FIELD POSTING INFORMATION Approved Posting Category Field Posting Category 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





COUNTY: CRAWFORD A1383 R REVIEW STATUS: APPROVED T **BRIDGE:** NBI STATUS: 11/30/2022 2022 ROUTE CARRIED 'ON' STRUCT **RECORD TYPE:** RUN DATE: **SUBMITTAL YEAR:** GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION ROUTE CARRIED 'ON' STRUCT State MISSOURI 5A Record Type MO District 5B CD Route Signing Prefix MAINLINE CRAWFORD County 5C Designated Level of Service 0000F 1148 8 Federal ID No. 5D Route Number 1966 NOT APPLICABLE 27 5E Year Built Directional Suffix RT F S 106 1987 7 Year Reconstructed Facility Carried NO HIGHWAY Type of Service On 12 Base Hwv. Network STATE HIGHWAY AGENCY 21 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 20 Toll Status 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 NO 110 Designated Nat. Network STRUCTURE LOCATION INFORMATION STRUCTURE TRAFFIC INFORMATION 857 4 Place KNOBVIEW 29 AADT 39242 2021 Code 30 AADT Year 2-WAY TRAFFIC S 4 T 38 N R 5 W Location 102 Direction of Traffic 11 Milepoint 15.25 miles 12% 109 AADT Truck Percent 16 Latitude 38 D 2 M 39 S 1200 114 Future AADT 17 Longitude 91 D 29 M 14 S 2041 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION IS 44 10 99 Ft. 99 In. Features Intersected Inventory Rte. Vert. Clear 42B HIGHWAY 19 11.88 miles Type of Service Under By pass Detour Length 04 28B Lanes Under Structure 32 Approach Roadway Width 20 Ft. 0 In. HIGHWAY 15.00 Degrees 54A Vert. Clearance Ref. 34 Skew 54B Vert. Clearance 35 Struct. Flared 16 Ft. 1 In. Rt. Lat Clear Ref. HIGHWAY Total Horiz. Clear 26 Ft. 3 In. 55A 47 55B Rt. Lat Clearance 10 Ft. 6 In. 48 58 Ft. 1 In. Maximum Span Length 203 Ft. 1 In. Left Lat Clearance 18 Ft. 8 In. 49 Structure Length N/A Navigation Control 50A 0 Ft. 0 In. Left Curb/Sidewalk Width Nav Vertical Clear 0 Ft. 0 In. 39 50B Right Curb/Sidewalk Width 0 Ft. 0 In. 0 Ft. 0 In. Curb to Curb Br. Width 25 Ft. 11 In. 40 Nav Horizontal Clear 51 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



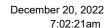


COUNTY: CRAWFORD BRIDGE: A1383 R REVIEW STATUS: APPROVED NBI STATUS: T

RECORD TYPE: ROUTE CARRIED 'ON' STRUCT RUN DATE: 11/30/2022 SUBMITTAL YEAR: 2022

Structure Status	RECORD TYPE: ROUTE CARRIED ON STRUCT	RUN DATE: 11/50/2022 SUBMITTAL TEAR: 2022
All Structure Status	LOAD RATING AND POSTING INFORMATION	MATERIAL/CONSTRUCTION INFORMATION
Sufficiency Rating Deck Protect Mat/Constr. 7 INTERNALLY SEALED	31 Design Load	43A Main Struc. Mat type CONCRETE CONTINUOUS 43B Main struc Constr. Type SLAB 45 # of Main Spans 4 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. 4 LOW SLUMP
Proposed Work SR Deck Cond. Rating 6 Superstructure Cond. Rating N Strue Improve Cost S 0,000 Strue Improve Cost S 0,000 Superstructure Cond. Rating N	NOT DESIGNAT	108C Deck Protect Mat/Constr. 7 INTERNALLY SEALED
Total Project Cost \$0,000	Funding Eligibility 75A Proposed Work 75B Work Done By 76 New Struc Length 0 Ft. 0 In. 94 Struc Improve Cost \$ 0,000	58 Deck Cond. Rating 6 59 Superstructure Cond. Rating 6 60 Substructure Cond. Rating 6 61 Channel /Channel Protection Cond. Rating N
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 36D Rail End Treat. App. Rating DOES NOT MEET ACCEPT STND 36D Rail End Treat. App. Rating DOES NOT MEET ACCEPT STND 36D DOES NOT MEET ACCEPT STND 37D Struc Eval App. Rating 5 38D Underwater Inspection N Months 39B Underwater Insp. Date 39C Special Inspection N Months 39B Underwater Insp. Date 39C Special Inspection N Months 39C Special Inspection Date 39C Special Insp	1 	
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 $Design_No = a1383$





COUNTY: CRAWFORD A1383 R REVIEW STATUS: APPROVED P **BRIDGE:** NBI STATUS: 1 RTE THAT GOES 'UNDER' S 3/8/2022 2021 **RECORD TYPE:** RUN DATE: **SUBMITTAL YEAR:** GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION State 1 RTE THAT GOES 'UNDER' S Code: A MISSOURI 5A Record Type District 5B CD Route Signing Prefix MAINLINE CRAWFORD County 5C Designated Level of Service 00044 Federal ID No. 1148 8 5D Route Number 1966 NOT APPLICABLE 27 Year Built 5E Directional Suffix RT F S 106 0 7 Year Reconstructed Facility Carried HIGHWAY Type of Service On 12 Base Hwy. 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 NONE EXISTS 101 28A Parallel Struc Desg 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 14247 4 Place KNOBVIEW 29 AADT 39242 2021 Code 30 AADT Year 1-WAY TRAFFIC S 4 T 38 N R 5 W Location 102 Direction of Traffic 11 Milepoint 202.94 miles 35% 109 AADT Truck Percent 16 Latitude 38 D 2 M 39 S 114 Future AADT 17 Longitude 91 D 29 M 14 S 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION IS 44 10 16 Ft. 10 In. Inventory Rte. Vert. Clear Features Intersected 42B HIGHWAY 19 0.00 miles Type of Service Under By pass Detour Length 02 28B Lanes Under Structure 32 Approach Roadway Width 54A Vert. Clearance Ref. 34 Skew 54B Vert. Clearance 35 Struct. Flared Rt. Lat Clear Ref. Total Horiz. Clear 26 Ft. 3 In. 55A 47 55B Rt. Lat Clearance 48 58 Ft. 1 In. Maximum Span Length 203 Ft. 1 In. Left Lat Clearance 49 Structure Length Navigation Control 50A 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: CRAWFORD

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

REVIEW STATUS: APPROVED

A1383 R

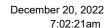
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NBI STATUS:

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COUNTY: CRAWFORD A1383 R REVIEW STATUS: APPROVED T **BRIDGE:** NBI STATUS: 1 RTE THAT GOES 'UNDER' S 11/30/2022 2022 **RECORD TYPE:** RUN DATE: **SUBMITTAL YEAR:** GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION State 1 RTE THAT GOES 'UNDER' S Code: A MISSOURI 5A Record Type District 5B CD Route Signing Prefix MAINLINE CRAWFORD County 5C Designated Level of Service 00044 Federal ID No. 1148 8 5D Route Number 1966 NOT APPLICABLE 27 Year Built 5E Directional Suffix RT F S 106 0 7 Year Reconstructed Facility Carried HIGHWAY Type of Service On 12 Base Hwy. 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 NONE EXISTS 101 28A Parallel Struc Desg 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 14247 4 Place KNOBVIEW 29 AADT 39242 2021 Code 30 AADT Year 1-WAY TRAFFIC S 4 T 38 N R 5 W Location 102 Direction of Traffic 11 Milepoint 204.58 miles 35% 109 AADT Truck Percent 16 Latitude 38 D 2 M 39 S 114 Future AADT 17 Longitude 91 D 29 M 14 S 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION IS 44 10 16 Ft. 10 In. Inventory Rte. Vert. Clear Features Intersected 42B HIGHWAY 19 0.00 miles Type of Service Under By pass Detour Length 02 28B Lanes Under Structure 32 Approach Roadway Width 54A Vert. Clearance Ref. 34 Skew 54B Vert. Clearance 35 Struct. Flared Rt. Lat Clear Ref. Total Horiz. Clear 26 Ft. 3 In. 55A 47 55B Rt. Lat Clearance 48 58 Ft. 1 In. Maximum Span Length 203 Ft. 1 In. Left Lat Clearance 49 Structure Length Navigation Control 50A 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: CRAWFORD

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

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A1383 R

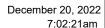
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NBI STATUS:

2022 11/30/2022 1 RTE THAT GOES 'UNDER' S **SUBMITTAL YEAR: RECORD TYPE: RUN DATE:** LOAD RATING AND POSTING INFORMATION MATERIAL/CONSTRUCTION INFORMATION 43A Main Struc. Mat type CONCRETE CONTINUOUS Design Load SLAB 41 Structure Status 43B Main struc Constr. Type 63 45 Oper. Rating Meth. # of Main Spans Operating Rating 44A Appr Struc. Mat type 44B Appr Struc. Cnstr. type 65 Inventory Rating Meth 46 # of Approach Span Inventory Rating 70 107 Deck Mat/Constr. Bridge Posting Code 108A Wear Surf Mat/Constr. PROPOSED IMPROVEMENT INFORMATION 108B Membrane Mat/Constr. Sufficiency Rating 108C Deck Protect Mat/Constr. Deficiency Rating CONDITION RATING INFORMATION Funding Eligibility Proposed Work 58 Deck Cond. Rating 75B Work Done By 59 Superstructure Cond. Rating 76 New Struc Length 60 Substructure Cond. Rating 94 Struc Improve Cost 61 Channel / Channel Protection Cond. Rating 95 Roadway Improve Cost 62 Culvert Cond. Rating 96 Total Project Cost INSPECTION INFORMATION Year of Cost Estimates 90 Gen. Insp Date APPRAISAL RATING INFORMATION 91 Gen. Insp. Frequency 36A Br. Rail App. Rating 92A Frac. Critical Inspection 36B 93A Transition Rail App. Rating Frac. Critical Insp. Date 36C Approach Rail App. Rating 92B Underwater Inspection 36D Rail End Treat. App. Rating 93B Underwater Insp. Date 67 Struc Eval App. Rating 92C Special Inspection Deck Geometry App. Rating 93C Special Inspection Date 69 Underclearance App. Rating BORDER BRIDGE INFORMATION 71 Waterway Adeq. App. Rating 98 Neighboring State Code 72 Approach Road App. Rating 98B Neighboring State % Respon 113 Scour Assess App. Rating 99 Neighboring State Struc. No. APPROVED POSTING INFORMATION FIELD POSTING INFORMATION Approved Posting Category Field Posting Category 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





COUNTY: CRAWFORD A1383 R REVIEW STATUS: APPROVED T **BRIDGE:** NBI STATUS: 11/30/2022 2022 2ND RTE THAT GOES 'UNDR'S **RECORD TYPE:** RUN DATE: **SUBMITTAL YEAR:** GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION State 2ND RTE THAT GOES 'UNDR'S Code: B MISSOURI 5A Record Type District 5B CD Route Signing Prefix MAINLINE CRAWFORD County 5C Designated Level of Service 00044 Federal ID No. 1148 8 5D Route Number 1966 NOT APPLICABLE 27 Year Built 5E Directional Suffix RT F S 106 0 7 Year Reconstructed Facility Carried HIGHWAY Type of Service On 12 Base Hwy. 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 NONE EXISTS 101 28A Parallel Struc Desg 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 15048 4 Place KNOBVIEW 29 AADT 39242 2021 Code 30 AADT Year 1-WAY TRAFFIC S 4 T 38 N R 5 W Location 102 Direction of Traffic 11 Milepoint 90.27 miles 35% 109 AADT Truck Percent 16 Latitude 38 D 2 M 39 S 114 Future AADT 17 Longitude 91 D 29 M 14 S 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION IS 44 10 16 Ft. 1 In. Inventory Rte. Vert. Clear Features Intersected 42B HIGHWAY 19 0.00 miles Type of Service Under By pass Detour Length 02 28B Lanes Under Structure 32 Approach Roadway Width 54A Vert. Clearance Ref. 34 Skew 54B Vert. Clearance 35 Struct. Flared Rt. Lat Clear Ref. Total Horiz. Clear 26 Ft. 3 In. 55A 47 55B Rt. Lat Clearance 48 58 Ft. 1 In. Maximum Span Length 203 Ft. 1 In. Left Lat Clearance 49 Structure Length Navigation Control 50A 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: CRAWFORD

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

REVIEW STATUS: APPROVED

A1383 R

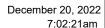
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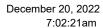
NBI STATUS:

2022 11/30/2022 2ND RTE THAT GOES 'UNDR'S **SUBMITTAL YEAR: RECORD TYPE: RUN DATE:** LOAD RATING AND POSTING INFORMATION MATERIAL/CONSTRUCTION INFORMATION 43A Main Struc. Mat type CONCRETE CONTINUOUS Design Load SLAB 41 Structure Status 43B Main struc Constr. Type 63 45 Oper. Rating Meth. # of Main Spans Operating Rating 44A Appr Struc. Mat type 44B Appr Struc. Cnstr. type 65 Inventory Rating Meth 46 # of Approach Span Inventory Rating 70 107 Deck Mat/Constr. Bridge Posting Code 108A Wear Surf Mat/Constr. PROPOSED IMPROVEMENT INFORMATION 108B Membrane Mat/Constr. Sufficiency Rating 108C Deck Protect Mat/Constr. Deficiency Rating CONDITION RATING INFORMATION Funding Eligibility Proposed Work 58 Deck Cond. Rating 75B Work Done By 59 Superstructure Cond. Rating 76 New Struc Length 60 Substructure Cond. Rating 94 Struc Improve Cost 61 Channel / Channel Protection Cond. Rating 95 Roadway Improve Cost 62 Culvert Cond. Rating 96 Total Project Cost INSPECTION INFORMATION Year of Cost Estimates 90 Gen. Insp Date APPRAISAL RATING INFORMATION 91 Gen. Insp. Frequency 36A Br. Rail App. Rating 92A Frac. Critical Inspection 36B 93A Transition Rail App. Rating Frac. Critical Insp. Date 36C Approach Rail App. Rating 92B Underwater Inspection 36D Rail End Treat. App. Rating 93B Underwater Insp. Date 67 Struc Eval App. Rating 92C Special Inspection Deck Geometry App. Rating 93C Special Inspection Date 69 Underclearance App. Rating BORDER BRIDGE INFORMATION 71 Waterway Adeq. App. Rating 98 Neighboring State Code 72 Approach Road App. Rating 98B Neighboring State % Respon 113 Scour Assess App. Rating 99 Neighboring State Struc. No. APPROVED POSTING INFORMATION FIELD POSTING INFORMATION Approved Posting Category Field Posting Category 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





COUNTY: CRAWFORD A1383 R REVIEW STATUS: APPROVED P **BRIDGE:** NBI STATUS: 3/8/2022 2021 ROUTE CARRIED 'ON' STRUCT **RECORD TYPE:** RUN DATE: **SUBMITTAL YEAR:** GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION ROUTE CARRIED 'ON' STRUCT State MISSOURI 5A Record Type MO District 5B CD Route Signing Prefix MAINLINE CRAWFORD County 5C Designated Level of Service 0000F 1148 8 Federal ID No. 5D Route Number 1966 NOT APPLICABLE 27 5E Year Built Directional Suffix RT F S 106 1987 7 Year Reconstructed Facility Carried NO HIGHWAY Type of Service On 12 Base Hwv. Network STATE HIGHWAY AGENCY 21 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 20 Toll Status 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 NO 110 Designated Nat. Network STRUCTURE LOCATION INFORMATION STRUCTURE TRAFFIC INFORMATION 857 4 Place KNOBVIEW 29 AADT 39242 2021 Code 30 AADT Year 2-WAY TRAFFIC S 4 T 38 N R 5 W Location 102 Direction of Traffic 11 Milepoint 15.13 miles 12% 109 AADT Truck Percent 16 Latitude 38 D 2 M 39 S 1200 114 Future AADT 17 Longitude 91 D 29 M 14 S 2041 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION IS 44 10 99 Ft. 99 In. Features Intersected Inventory Rte. Vert. Clear 42B HIGHWAY 19 11.78 miles Type of Service Under By pass Detour Length 04 28B Lanes Under Structure 32 Approach Roadway Width 20 Ft. 0 In. HIGHWAY 15.00 Degrees 54A Vert. Clearance Ref. 34 Skew 54B Vert. Clearance 35 Struct. Flared 16 Ft. 1 In. Rt. Lat Clear Ref. HIGHWAY Total Horiz. Clear 26 Ft. 3 In. 55A 47 55B Rt. Lat Clearance 10 Ft. 6 In. 48 58 Ft. 1 In. Maximum Span Length 203 Ft. 1 In. Left Lat Clearance 18 Ft. 8 In. 49 Structure Length N/A Navigation Control 50A 0 Ft. 0 In. Left Curb/Sidewalk Width Nav Vertical Clear 0 Ft. 0 In. 39 50B Right Curb/Sidewalk Width 0 Ft. 0 In. 0 Ft. 0 In. Curb to Curb Br. Width 25 Ft. 11 In. 40 Nav Horizontal Clear 51 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: CRAWFORD BRIDGE: A1383 R REVIEW STATUS: APPROVED NBI STATUS: P

RECORD TYPE: ROUTE CARRIED 'ON' STRUCT RUN DATE: 3/8/2022 SUBMITTAL YEAR: 2021

LOAD RATING AND POSTING INFORMATION	
A Structure Status	
Sufficiency Rating Deficiency Rating Deficiency Rating Deficiency Rating Proposed Work 75A Proposed Work 75B Work Done By 76 New Strue Length 18 Ft. 8 In. 94 Strue Improve Cost \$0,000 95 Roadway Improve Cost \$0,000 97 Year of Cost Estimates 0 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 36D Rail End Treat. App. Rating DOES NOT MEET ACCEPT STND 36C See Geometry App. Rating DOES NOT MEET ACCEPT STND 36D Rail End Treat. App. Rating DOES NOT MEET ACCEPT STND 36D Rail End Treat. App. Rating DOES NOT MEET ACCEPT STND 36D Rail End Treat. App. Rating DOES NOT MEET ACCEPT STND 36D Rail End Treat. App. Rating DOES NOT MEET ACCEPT STND 36D Rail End Treat. App. Rating DOES NOT MEET ACCEPT STND 36D Rail End Treat. App. Rating DOES NOT MEET ACCEPT STND 36D Rail End Treat. App. Rating DOES NOT MEET ACCEPT STND 36D Rail End Treat. App. Rating DOES NOT MEET ACCEPT STND 36D Rail End Treat. App. Rating DOES NOT MEET ACCEPT STND 36D Rail End Treat. App. Rating DOES NOT MEET ACCEPT STND 36D Rail End Treat. App. Rating DOES NOT MEET ACCEPT STND 37D Special Inspection N Months 38D Underwater Insp. Date 39D Special Inspection N Months 39D Special Inspection N Months 39D Special Inspection N Months 39D Special Inspection Date	
Total Proposed Work Search	
Year of Cost Estimates 0 APPRAISAL RATING INFORMATION 90 Gen. Insp Date 9/20 91 Gen. Insp. Frequency 24 Months 92A Frac. Critical Inspection N Months 93A Frac. Critical Inspection N Months 93B Underwater Inspection N Months 93B Underwater Insp. Date 92B Underwater Insp. Date 92C Special Inspection N Months 93C Special Inspection Date	
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APPROVED POSTING INFORMATION FIELD POSTING INFORMATION	
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 $Design_No = a1383$

Bridge Number: A1383R	Route/County:
Yes:	ng Material Present? No: ort for location(s).
Structural S Yes:	teel Present? No: \(\sum \) If No, then skip the following.
Lead-Based Pai Yes:	nt (LBP) Present? No:
Trusses LBP?	Girder LBP?
Yes: No:	Yes: No:
Railing LBP?	Pile LBP?
Yes: No:	Yes: No:

MEMORANDUM



Missouri Department of Transportation Construction and Materials Central Laboratory

TO:

TMS

FROM:

Diane Roegge

Environmental Chemis

DATE:

June 5, 2017

SUBJECT:

Materials

Asbestos Inspection & Heavy Metal Paint Survey

Route F

Bridge A-1383R Crawford County

We are providing you with the results of the inspection on the above referenced bridge. The inspection report contains an asbestos and a heavy metals survey. The asbestos inspection included identifying suspect asbestos-containing material and NVLAP accredited testing to confirm the presence of asbestos.

Form T746 – This will show if samples were taken, where from, and, if the sample was found to contain asbestos, our estimated quantity of material present. Under the column "Friability Category", this is the meaning for the following:

N-ACM – No asbestos detected.

I NF – Asbestos is present. Material shall be handled carefully by a licensed abatement worker and kept wet if removing as part of a maintenance activity.

II NF – Asbestos is present. If removal is required for the maintenance activity, use an abatement contractor.

In accordance with Missouri Department of Natural Resources' Technical Bulletin "Managing Construction and Demolition Waste" dated January 31, 2003, a heavy metal paint survey has been performed on the above referenced bridge. This survey includes locating concrete which has been painted with something other than traffic paint or graffiti, and testing the painted surface(s) to determine if hazardous heavy metals are present. If the bridge is being removed completely, or the maintenance repairs include removing the painted concrete, then, non-hazardous painted concrete may be used as clean fill materials, if properly handled. You must contact the Central Office Design Division for proper handling of the reported painted surfaces.

Although our survey included observing and sampling all accessible areas, it is possible that potentially hidden asbestos-containing materials may exist within the structure. Should you have any questions regarding these reports, please contact me at (573) 526-4359.

db/fr/dr

 $http://sp/sites/cm/chemicallab/environmental/shared\ documents/asbestos/districts/central\ (cd)/mt/a1383r/dr17060514.docx$

Attachments

MISSOURI DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS

Asbestos Survey Report
All Suspect ACM

ROUTE: MODOT JOB NO.: DISTRICT: COUNTY:	F N/A CD Crawford	SURVEYED BY: CERTIFICATION #: SITE ADDRESS: TYPE(S) OF STRUCTURE(S): Diane Roegge 7020102516M0IR7165, D.R. Over 1-44, Exit #203 Bridge		
PARCEL NO.:				
Sample ID	Type of Materials	Location of Material	Friability Category	Field Measure
17MD1R 306	Insulating Compound	Under 48-Tube Rail Posts, Over Concrete	II NF	18 Sq. Ft.
	Bridge Paint is not a suspect ACM per MSDS's			
	on file.			
		The state of the s		

MISSOURI DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS

Asbestos Survey Report
Nonfriable Asbestos-Containing Materials
(Abatement not required if not made friable during demolition.)

ROUTE: MODOT JOB NO.: DISTRICT: COUNTY: DATE OF TESTS: PARCEL NO.:	N/A CD Crawford June 15, 2017 Bridge A-1383R	TESTED BY: CERTIFICATION #: SITE ADDRESS: TYPE(S) OF STRUCTURE(S):	Diane Roegge 7020102516MOIR7165, D.R. Over I-44, Exit #203 Bridge	R7165, D.R 203			
Sample ID	Type of Material	Location of Material	Friz Cat		Field Measure	Asbestos Type	Percei
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MISSOURI DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS

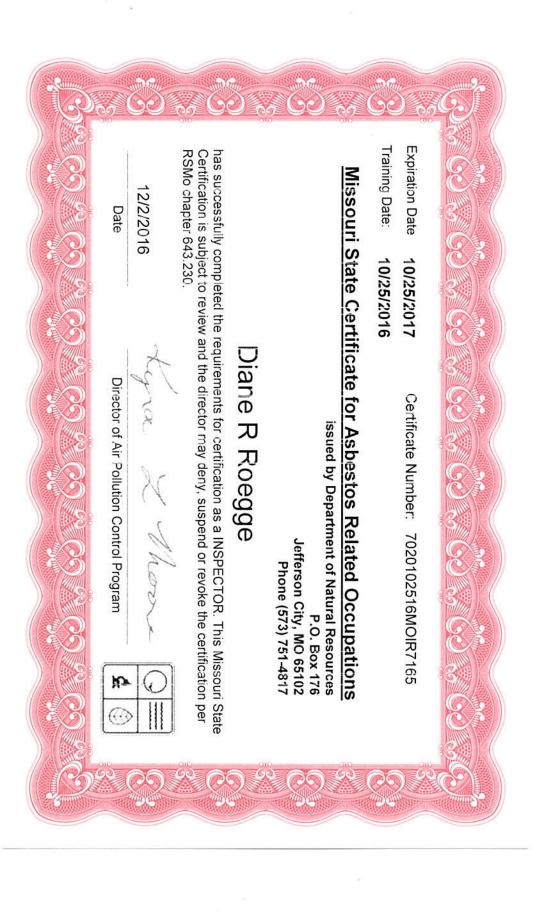
Asbestos Survey Report
All materials requiring removal or special handling.

ROUTE: MODOT JOB NO.: DISTRICT:			TESTED BY: CERTIFICATION #: SITE ADDRESS:	Diane Roegge 7020102516MOIR7165, D.R. Over I-44, Exit #203	R7165, D	J.R.		
COUNTY: DATE OF TESTS: PARCEL NO.:	TS:	Crawford June 15, 2017 Bridge A-1383R	TYPE(S) OF STRUCTURE(S):	Bridge		Materials attended watering them.		
Bid Item No.	Sample ID	Type of Material	Location of Material	Fria Cate	Friability Category	Field Measure	Asbestos Type	Percen
02-40.43	17MD1R 306	Insulating Compound	Under 48-Tube Rail Posts, Over Concrete	AAAAA AAAA	II NF	18 Sq. Ft.	Chrysotile	2-6
		deleter mende deleter	None Located		ħ			***************************************
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MISSOURI DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS

Metals Survey Report of Painted Concrete, Block, Brick Surfaces for Clean Fill Purposes

ROUTE: MODOT JOB NO.: DISTRICT: COUNTY: SURVEYED BY: DATE OF SURVEY:	F N/A CD Crawford Diane Roegge W June 5, 2017	TESTED BY: DATE OF TESTS: PARCEL NO.: SITE ADDRESS: TYPE(S) OF STRUCTURE(S): Bridge Over I-	Y: (ESTS: (O.: RESS: F STRUCT	N/A N/A N/A Brid Over Over URE(S): Brid	N/A N/A Bridge A-1383R Over I-44, Exit #203 Bridge	#203			
Militry/projections	Alterophysical policy of the second se	CO DESCRIPTION OF THE PROPERTY		West	Me (pr	Metals (ppm)	The state of the s	A A A A A A A A A A A A A A A A A A A	The state of the s
Sample ID	Color/Location of Material/Substrate No samples taken. No painted surfaces located.	As	Cr	Pb	Cd	Se	Ba	Hg	Ag
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Scoping Estimate for Rehab:

Rte. F (Minor) over I-44 (Major)
Crawford County
Bridge No. A13832
Job No. J5P3515

		To	otal Est	imate:		\$346,000
Listing of Items		Un	its		Cost/Unit	Total Cost
Removal of Miscellaneous ACM (Non-Friable)	18				\$125 sf	\$2,250
Total Surface Hydro Demolition	202.58 x	26	1	9 x	\$50 sy	\$29,262
Removal of Concrete Wearing Surface	202.58 x	26	х		\$2.60 sf	\$13,695
Removal of Existing Deck Repair	176 x				\$60 sf	\$10,560
Bridge Approach Slab (Major)	0 x	20.00 x	2 /	9 x	\$300.00 sy	\$0
Supplementary Wearing Surface Material	5				\$700 cy	\$3,500
Latex Modified Concrete Wearing Surface	202.58 x	26	1	9 x	\$150 sy	\$87,786
Diamond Grinding	202.58 x	26	1	9 x	\$8 sy	\$4,682
Curb Blockout (increased \$5 for curb repair)	202.34 x	2 x			\$160 If	\$64,749
Substructure Repair (Formed or Unformed)	10 x	1 x			\$165.00 sf	\$1,650
Half-Sole Repair	202.58 x	26 x	20% x		\$80 sf	\$84,275
Full Depth Repair	202.58 x	26 x	0% x		\$110 sf	\$0
Slab Edge Repair (Bridges)	202.58 x	2	0% x		\$200 If	\$0
Cleaning and Epoxy Coating	202.58 x	2 x	4.08		\$12 sf	\$19,837
Protective Coating - Concrete Bents and Piers (Epoxy)	196.35 x	3 x			\$12.00 sf	\$7,069
Cored Slab Drain	0 x	2 x			\$650.00 ea	\$0
Open Cell Foam Joint Seal	26.917 x	2 x			\$115.00 If	\$6,191
Miscellaneous Items/Contingency	3%					\$10,065
Staging	0%					\$0

Bridge Memorandum

Job No.: J5P3515 **Bridge No.:** A13832

County: Crawford Rte.: F (Minor) over I-44 (Major)

Final Layout: Use-in-Place, Redeck and Make Composite Existing (45',45', 45') Simple Wide Flange Beam

Spans

Roadway Width: 22'-0" plus 16" Type H Barriers

Alignment: Tangent Skew: Square

Grade: Match existing plus $1" \pm (Add 1" \text{ to existing haunch})$

Loading: H15-44 (1957), HS20-44 (new construction)

Beg. Station: $274+72.00 \pm \text{(match existing)}$

Traffic Handling: Structure to be closed to traffic during construction.

Existing Bridge: Redeck N0910 and use in place.

Condition Ratings: Deck = 4, Superstructure = 5, Substructure = 6

Load Posting: Posted S4 for Centerline Only - Operating Rating = 26 tons (to be removed by making

composite)

GENERAL NOTES:

Remove existing bridge deck (non-composite), which includes curbs, end posts and rails as necessary.

Install 8" cast-in-place slab (P/S panels not allowed) with 3/16" per 1' cross slope. (3" Future Wearing Surface)

Stay-in-place forms for slab are permitted.

Make end bents integral.

Install 16" wide, Type H Barriers.

Estimated 100 sf of substructure repair (formed). 50 sf on Bent No. 2 beam cap and 50 sf on Bent No. 3 beam cap.

Apply Protective Coating - Concrete Bents and Piers (Epoxy) to all bents.

Make spans composite by adding shear connectors.

Install Slab Drains as required.

Recoat existing piles at Bents No. 2 & 3 with aluminum epoxy-mastic primer.

Provide saw cut joints in slab at CL of Int. Bents No. 2 & 3.

A vibratory screed is allowed.

AADT (2019) = 340, AADT Truck = 9.4% = 32 AADT (2039) = 425, AADT Truck = 9.4% = 40

SPECIAL NOTES:

Roadway surfacing adjacent to bridge ends to match top of bridge deck (Roadway Item).

Install object markers at bridge ends (Roadway Item).

Remove and re-key gabions further into stream bank to prevent further scouring (Roadway Item).

Rubblized existing bridge deck may be used on spill slopes (Roadway Item).

Sandblast and recoat all existing structural steel with System G (Gray) in a separate, paint-only contract at an estimated cost of \$47,000.

An asbestos and lead inspection has been performed on this structure (N0910). Results indicate that lead is present. The Bridge Division will include the inspection report in the electronic deliverables folder when submitting contract documents to the Design Division for the Letting (Bridge Item).

District Contact is Richard Orr, TPM (816) 387-2483

Bridge Division Contact is Joseph Alderson, SPM (573) 522-8722

FY'25 Programmed Bridge STIP Amount:	\$219,000
FY'25 Programmed Total Construction STIP Amount:	\$299,000
Estimated Working/Calendar Days (not including painting):	20/30
Estimated Working/Calendar Days for painting:	25/40
FY'25 Estimated Bridge Construction Cost*:	\$346,000

Bridge: Date:

Bridge: Date:

Structural Designer

Date:

Structural Project Manager

District: Date:

Transportation Project Manager

District: Date:

District Bridge Engineer

* Does not include inflation from Planning (3% compounded annually)

Scoping Estimate for Rehab:

Rte. F (Minor) over I-44 (Major)
Crawford County
Bridge No. A13832
Job No. J5P3515

		1	Total Est	imate:		\$346,000
Listing of Items		U	nits		Cost/Unit	Total Cost
Removal of Miscellaneous ACM (Non-Friable)	18				\$125 sf	\$2,250
Total Surface Hydro Demolition	202.58 x	26	1	9 x	\$50 sy	\$29,262
Removal of Concrete Wearing Surface	202.58 x	26	x		\$2.60 sf	\$13,695
Removal of Existing Deck Repair	176 x	(\$60 sf	\$10,560
Bridge Approach Slab (Major)	0 x	20.00 >	2 /	9 x	\$300.00 sy	\$0
Supplementary Wearing Surface Material	5				\$700 cy	\$3,500
Latex Modified Concrete Wearing Surface	202.58 x	26	1	9 x	\$150 sy	\$87,786
Diamond Grinding	202.58 x	26	1	9 x	\$8 sy	\$4,682
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(increased \$5 for curb repair) Substructure Repair (Formed or Unformed)	10 x	(1)	<		\$165.00 sf	\$1,650
Half-Sole Repair	202.58 x	26 >	20% x		\$80 sf	\$84,275
Full Depth Repair	202.58 x	26 >	0% x		\$110 sf	\$0
Slab Edge Repair (Bridges)	202.58 x	2	0% x		\$200 If	\$0
Cleaning and Epoxy Coating	202.58 x	(2)	4.08		\$12 sf	\$19,837
Protective Coating - Concrete Bents and Piers (Epoxy)	196.35 x	3 >	<		\$12.00 sf	\$7,069
Cored Slab Drain	0 x	(2)	<		\$650.00 ea	\$0
Open Cell Foam Joint Seal	26.917 x	2 >	<		\$115.00 If	\$6,191
Miscellaneous Items/Contingency	3%					\$10,065
Staging	0%					\$0

Br. No. A13832 County: Crawford Date: 3/27/2023

Job No. J5P3515 Name: C. Ruether

Calendar/Working Days: Redeck

Bridge Removal:		SF	@	1300	SF/day	=		
Prebore:		LF	@	130	LF/day	=		
Substructure Excavation:		CY	@		CY/day	=		
Drive Piling:		LF	@	330	LF/day	=		
Intermediate Bent (3 column):		bents	@	4	days/each	=		
Rock Sockets:		LF	@	18	LF/day	=		
Drilled Shafts:		LF	@	25	LF/day	=		
End Bents:		bents	@	4	days/each	=		
P/S I-Girder Erection:		spans	@	1.5	days/span	=		
Structural Steel Erection:		lbs	@	60000	lbs/day	=		
Hinge Modification:		ea	@	1	ea/day	=		
Structural Deck Concrete:		CY	@	275	CY/day	=		
P/S Panel Erection:		spans	@	1.4	days/span	=		
Reinforcing Steel (Substr):		lbs	@	4000	lbs/day	=		
Reinforcing Steel (Super):		lbs	@	6200	lbs/day	=		
Total Superstructure (Steel):		spans	@	10.2	days/span	=		
Total Superstructure (PSI):		spans	@	7	days/span	=		
Safety Barrier Curb:	0	LF	@	525	LF/day	=	0.0	days
Bridge Approach Slab:	2	slabs	@	8	days/each	=	16	days
Painting:		SF	@	730	SF/day	=		
			_	4005				
Mill Deck (1/4 "):		SF	@		SF/day	=		
Hydro Demolition:	-00 -	SF	@		SF/day	=		
Remove Bridge Deck:	5267		@	2187.5	,	=	2.4	days
Asphalt Overlay:		SF	@		SF/day	=		
Low Slump Overlay:		SYD	@		SYD/day	=		
Polymer Concrete Overlay:		SF	@		SF/day	=		
Expansion Joint Replacement:	_	LF	@		LF/day	=		
Replace or Widen Deck:	0	SF	@		SF/day	=	0.0	days
Half - Sole Repair:		SF	@		SF/day	=		
Full Depth Repair:		SF	@		SF/day	=		
Slab Edge Repair:		LF	@		LF/day	=		
Unformed Substr Repair:		SF	@		SF/day	=		
Unformed Super Repair:		SF	@		SF/day	=		
Clean and Repaint Steel:		SF	@		SF/day	=		
MSE Wall:		SF	@	800	SF/day	=		
								_

Sum	=	18.4	days

Estimate for Paint:

F (Minor) over I-44 (Major) Crawford County Bridge No. A13832 Job No. J5P3515

	Total Estimate:		\$47,000
Listing of Items	Units	Cost/Unit	Total Cost
Surface Preparations for Recoating Structural Steel	3400 x	\$9.00 sf	\$30,600
Field Application of Inorganic Zinc Primer (System G)	3400 x	\$3.00 sf	\$10,200
Intermediate Field Coat (System G)	1000 x	\$3.00 sf	\$3,000
Finish Field Coat (System G)	1000 x	\$3.00 sf	\$3,000

Bridge No. A13832 Crawford County C. Ruether Date 03/27/2023

Working Days and Estimating Quantities for Recoating Structural Steel Input Wide Flange Bridge Surface Preparation for Recoating = 3400 ft^2 Bridge Width = 20' Inorganic Zinc Primer = 3400 ft^2 Tons of steel = 31.8 tons Intermediate Field Coat = 1000 ft^2 Finish Field Coat = 1000 ft^2 Girder/Stringer Depth = 2.025' Length to be Painted = 132.1667' Pay Items Surface Preparation for Recoating Structural Steel 1) Install Work Platform (if necessary) Length = 132.1667' Width = 20' Area = 2643.333' ft^2 Number of platfoms = 1 Rate = 1/day Working Days 2) Installing Sand Blasting Containment Length = 132.1667' Width = 20' Height = 6.025' # sides = 2 # ends = 2 Needs top? No Needs bottom? Yes Area = 4476.942' ft^2 Base Production Rate = 1000 sf/day Rate Change = 100% Production Rate = 1000 sf/day 4 48 Working Days Working Days Use 5.00 3) Disposal of Hazardous Waste Weight = 2.383125 tons Waste Fraction = 0.075 ton/ton of steel Production Rate = 2 per 15 tons Use 2.00 Working Days 3) SSPC-SP10 Surface Preparation Production Rate Change = 3400 ft^2 50% Area = Production Rate = 500 sf/day 6.80 Working Days Working Days Use 7.00 Inorganic Zinc Primer ft^2 Area = 3400 Production Rate = 900 sf/day 3.78 Working Days Use Working Days 4.00 Intermediate Field Coat Area = 1000 ft^2 Production Rate = Working Days 900 sf/day 1.11 Working Days Use 2.00 Finish Field Coat ft^2 1000 Area = sf/day Production Rate = 900 1.11 Working Days Use 2.00 Working Days 85% of Total Working Days = 20

Calendar Days =

30