

## Structure Inventory and Appraisal

Bridge (D: MORG		Official	SR: 82.3		t Deficient or Obsolete
-					
FHWA No.: 13058	1	Unofficia	I SR: 82.3	SD/FO: NO	t Deficient or Obsolete
<u> </u>	IDENTIFICATION	C	. ·	INSPECTION	
7 Facility Carried:	LOCAL	90 Inspection Date:	05/04/2016	Inspection Type:	N/A
58 Rte, Signing Prefix: 4	4	Next Routine Insp Date:	05/04/2018	91 Frequency:	24
5C Level of Service:	1 - MAINLINE			Next Insp Type:	Regular
5D Inventory Route: 0	00000	Inspection Agency:	5 - Consultant	Inspection Group:	Crawford County
City:	RURAL	93A FC Inspection Date	:		
3 County: 0	024 · Crawford	92A FC Frequency:	0	Next FC Insp.:	NA
9 Location:	085401101	93B UW Inspection Date	B:		
5E Directional Suffix 0	0 - NOT APPLICABLE	92B UW Frequency:	0	Next UW Insp.:	NA
6 Feature Intersected: 1	BEAVER CREEK	93C SI Date:			
2 District:	0	92C SI Frequency.	0	Next Spec. Insp.:	NA
Garage:	000	Other Non-NBI Date:			
98 Border Bridge Code:		Other Non-NBI Freq.:		Next Other Insp.;	NA
% Responsibility:	0	>	•	CONDITION	
99 Barder Bridge No.:		58 Deck:	7 - Good Condition (s	ome minar problems)	
STRUC		59 Super.	7 - Good Condition (s	ome minor problems)	
	3 - Sleel	60 Sub:	7 - Good Condition (s	oma minar problems)	
438 Main Span Design: (	02 - Stringer/Multi-beam or Girder	61 Channel/Channel Pro	t.: 6 Bank slump, wide	spread minor damage	
45 No. Spans Main Unit: 1	1	62 Culvert:	N - Not Applicable		
44A Appr. Span 👘	900 - NA	>	11 1101 @pincont		
448 Appr. Span Design: (	900 - NA	67 Str. Evaluation:	5 - Somewhat better	APPRAISAL than minimum adequacy	
46 No. of Appr. Spans:	Near 0 Far Ó	68 Deck Geometry:	6 - Equal to present r		
107 Deck Type:	8 - Wood or Timber	69 Underclear Vert & Ho			
108A Wearing Surface:	7 - Wood or Timber	71 Waterway Adequacy:		machan	
108B Membrane:	0 - None	72 Approach Alignment:			
108C Deck Protection: 0	0 - None	36A Bridge Rall:			S, OR IS NOT THERE AND IS NEEDE
		36B Transition:			, OR IS NOT THERE AND IS NEEDED
48 Length Max Span:	40 ft.				, OR IS NOT THERE AND IS NEEDED
49 Structure Length:	40 ft.	36C Approach Rail:			
34 Skew:	0°	36D Approach Rail Ends			3. OR IS NOT THERE AND IS NEEDS
Deck Area:	1032.0 sq. ft.	113 Scour Critical:	8 - Stable - Excellent		
50B Curb/Sdwk Width R:	D ft.	31 Design Load: !	LOAD 1 5 • HS 20	RATING AND POSTING	
50A Curb/Sdwk Width L:	0 ft.			ted in english tons using HS-2	20 loading.
51 Width Curb to Curb:	24.2 fl.	•	26.9 Tons		-
52 Width Out to Out:	25.8 ft.			ted in english tons using HS-2	20 loading.
32 Appr. Roadway width:	Oft.		22.4 Tons 5 - Fougl to or shoup least	licade	
(w/ Shoulders)		+	5 - Equal to or above lega A - Open		
33 Median:	0 - No median			GE AND SERVICE	
35 Structure Flared:	00 - No flare	27 Year Built:	2006	Design No.:	0
10 Vertical Clearance:	99' <b>9</b> 9"	106 Year Reconstructed	1: 0		
47 Horiz, Clearance:	24'00"	42A Type of Service on:	: 1 - Highway		
53 Min. Vert. Clearance C		42B Type of Service Un	der: 5 - Waterway		
548 Min. Vert. Underclear		28A Lanes on:	2	28B Lanes under:	0
55 Min. Lat, Underclearar		29 ADT:	5	30 Year of ADT:	2012
56 Min. Lat. Underclearar		109 Truck ADT:	40 %	Speed Limit:	55
		19 Detour Length:	4 mi.		
38 Navigation Control:	NAVIGATION DATA	→		CLASSIFICATION	
-	trol on waterway (bridge permit not required)	112 NBIS Length:	Y		
111 Pler Protection:		26 Functional Class:	09 - Rural - Local		
39 Vertical Clearance:	00'00"	100 STRAHNET:	0 - Nol a defense I	lighway	
40 Horiz, Clearance:	000'00"	101 Parellel Structure:	N - No parallel stru	icture	
		102 Direction of Traffic:	•		
16 Latitude: 42.1956602	27 17 Longitude: -95.47234371	22 Owner:	02 - County Highw		
<u> </u>		21 Custodian:	02 - County Highw	ay Agency	
		37 Historical Significance 75A Type of Work Prope			
FRA No. (If RR Bridge):					



## **Structure Inventory and Appraisal**

Bridge ID: MORGAN-	130581	Official	I SR:	82.3	SD/FO: No	t Deficient or Obsolete
FHWA No.: 130581		Unofficia		82.3	SD/FO: No	t Deficient or Obsolete
	<u></u>					
IDE 7 Facility Carried: LOCAL		90 Inspection Date:	04/25/2014	INSF	ECTION Inspection Type:	N/A
5B Rte. Signing Prefix: 4		Next Routine Insp Date			91 Frequency:	24
		Next Routine hisp Date	5. 04/23/2010			
5C Level of Service: 1 - MA	INLINE	In a stress A second	E Osnavilia		Next Insp Type:	Regular
5D Inventory Route: 00000		Inspection Agency:	5 - Consulta	nt	Inspection Group:	Crawford County
City: RURAL		93A FC Inspection Dat				
,	rawford	92A FC Frequency:	0		Next FC Insp.:	NA
9 Location: 085401		93B UW Inspection Da				
		92B UW Frequency:	0		Next UW Insp.:	NA
	R CREEK	93C SI Date:				
2 District: 0		92C SI Frequency:	0		Next Spec. Insp.:	NA
Garage: 000		Other Non-NBI Date:				
98 Border Bridge Code:		Other Non-NBI Freq.:			Next Other Insp.:	NA
% Responsibility: 0		>		CO	NDITION	
99 Border Bridge No.:	ļ	58 Deck:	8 - Very Go	od Condition (n	o problems noted)	
STRUCTURE	TYPE AND MATERIALS	59 Super:	7 - Good C	ondition (some	minor problems)	
43A Main Span 3 - Stee	əl	60 Sub:	7 - Good C	ondition (some	minor problems)	
43B Main Span Design: 02 - Sti	inger/Multi-beam or Girder	61 Channel/Channel Pr	ot.: 7 - Bank pr	otection needs	minor repairs	
45 No. Spans Main Unit: 1		62 Culvert:	N - Not Ap	olicable		
44A Appr. Span 000 - N	A	>				
44B Appr. Span Design: 000 - N	A	67 Str. Evaluation:	5 - Somew		PRAISAL ninimum adequacy	
46 No. of Appr. Spans: Near	0 Far 0	68 Deck Geometry:		present minim		
107 Deck Type: 8 - Woo	od or Timber	69 Underclear Vert & H				
108A Wearing Surface: 7 - Woo	od or Timber			Above Approact		
108B Membrane: 0 - Nor	e	71 Waterway Adequacy	-			
108C Deck Protection: 0 - Nor	e	72 Approach Alignment		o present desira		
~	METRIC DATA	36A Bridge Rail:				S, OR IS NOT THERE AND IS NEEDED
	40 ft.	36B Transition:				, OR IS NOT THERE AND IS NEEDED
	40 ft.	36C Approach Rail:				, OR IS NOT THERE AND IS NEEDED
•	)°	36D Approach Rail End				S, OR IS NOT THERE AND IS NEEDE
	1032.0 sq. ft.	113 Scour Critical:	8 - Stable -	Excellent Conc	lition	
	D ft.	04 Decimal condu	5 110 00	LOAD RATIN	IG AND POSTING	
	D ft.	31 Design Load: 63 Rating Method:	5 - HS 20 1 - Load Factor	(LE) reported in	english tons using HS-2	20 loading
	24.2 ft.	64 Operating Rating:	26.9 Tons	(21) repetted in	englien tene denig rie i	-o louding.
	25.8 ft.	65 Rating Method:	1 - Load Factor	(LF) reported in	english tons using HS-2	20 loading.
	D ft.	66 Inventory Rating:	22.4 Tons			
(w/ Shoulders)		70 Posting: 41 Posting Status:	5 - Equal to or a A - Open	bove legal loads	5	
. ,	) - No median			AGE A		
	00 - No flare	27 Year Built:	2006		Design No.:	0
	99'99"	106 Year Reconstructe	d: 0			
		42A Type of Service or		y		
	24'00"	42B Type of Service Ur				
53 Min. Vert. Clearance Over:		28A Lanes on:	2		28B Lanes under:	0
54B Min. Vert. Underclearance:		29 ADT:	5		30 Year of ADT:	2012
55 Min. Lat. Underclearance R:		109 Truck ADT:	3 40 %		Speed Limit:	55
56 Min. Lat. Underclearance L:					opeeu Liniit.	55
NAVI 38 Navigation Control:	GATION DATA	19 Detour Length:	4 mi.			
•	waterway (bridge permit not required)	110 NDIC	V	CLAS	SIFICATION	
111 Pier Protection:	, , , , , , , , , , , , , , , , , , , ,	112 NBIS Length: 26 Functional Class:	Y 09 - Rura	I - L 009		
39 Vertical Clearance: 00'00"		100 STRAHNET:		defense highwa	av	
40 Horiz. Clearance: 000'00"		101 Parallel Structure:		arallel structure	. <del>,</del>	
		102 Direction of Traffic:				
16 Latitudo: 42 10600027	17 Longitudo: 05 47024074	22 Owner:		nty Highway Ag	ency	
16 Latitude: 42.19666027	17 Longitude: -95.47234371	21 Custodian:		nty Highway Ag		
		37 Historical Significance				
FRA No. (if RR Bridge):		75A Type of Work Prop				
Mile Post:		75B Work Done by:				

Crawford Cour	nty Day Labor Bridge (	Construction
Prepared By: Wood	Date:	
Township: Mocean	Section: //	E911 Rd.: B Am
FHWA No.: 130581	Date Reconstructed:	2005
Describe Work: New	Bridge	
		<del>y</del>
Bridge Length: 90	Bridge Width: 24	Open Depth:
Beam Info.	Deck Info.	Diaphragm Info.
Beam Type: W /\$>	Deck Type: Word	# Boits per Angle;3
Beam Spacing: 39" C-C	Top: 3y/& Longitudinal	Bolt Size:
Beam Depth: 24	1	Diaphragm Length: $39''$
Flange: 9 5		Diaphragm Size: /D' channel
Web Thickness:		
Deck X-secton With Beam Spacing	· · · · · · · · · · · · · · · · · · ·	
I Beans on	39" C.C	
X-section With Diaphragm Spacing		
Diachraems @ e.	de and 3 Fants	
Substructure Comments:	<u>nes ann - prinns</u>	
Cebergolaro Connitolità.		
Comments:		

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Project Nun	nber:	LB50	)-11	1		· • • • • • •							C	RAV	VFO	۲D C	OUN	TY D	AYL	ABO	R PI													24, 2005	
Location:	140505	m																			<u> </u>	Sec	tion:	28	11					<u></u>	owns	hip:	Morgar		
Description	of Wot	rk:		Repl	ace (	old I I	beam	bridg	ge w	ith ne	w 40'	x24' v	wide2	24"   1	beam	i brid	lge wi	th wi	ngs.															HWA No:	
For the	month	of:																																Bridge T	
Мау	y&June																																	l bear	<u>n</u>
Employ															Ηοι		vorke																Total	Hourly	Totals
Employ	ee	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Hours	Rate	
Terry Lally		8				1	8	8						8	8	8	8	8			8	8	8				8					8	104	\$ 36.58	\$3,804.32
Dan Blunk		8				1	8	8						8	8	8	8	8			8	8	8									8	96	\$ 33.49	\$3,215.04
Howard Clar	ĸ	·					8	8		Ì	Ι	_	ļ	8	8	8	8	. 8			8		8									8	80	\$ 28.40	\$2,272.00
Kyle Schultz							8	8	Ľ						8	8	8	8			8	8	8				8		:			8	88	\$ 25,46	\$2,240.48
Blake Deibe	er i						8	8		<u> </u>	Τ			8	8	8	8	8			8	8	8				8					8	96	\$ 13.48	\$1,294.08
Joe Blum						<u> </u>	<u> </u>							8	8	8	8	8			8	8	-	]			•				·		56	\$ 10.27	\$575.12
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Equipme	ent	1	2	3	4	5	6	7	8	9	10	11	12	13	14				18		20	21	22	23	24	25	26	27	28	29	30	31	Hours		Totals
#83 Cat Exc	avater .	7	1	0	<b>-</b>	Ľ	5	5	ľ	Ť	<u> '`</u>	''	12	6	3	5			<u>⊢'</u> ~	1.	6	6	6	1-0			4				1.00	1	65	\$ 67.19	\$4,367.35
#73 Link Bel				<u> </u>	┠	╂━━-	5	7		-	·	┼╾╾╸		6	6	Ť	5		-	l'	<u>`</u>	Ť	†–	<del>†</del>			┝╌┶┥				<u> </u>	+	32	\$ 98.33	\$3,146.56
#103 Tele-Ci		<u> </u>			<u> </u>	+	<u> </u>	┼┈┷╍	$\vdash$	-		-		ľ	<u>   ~.</u>		╧		┼──	╋──	<u> </u>	<u>  · · </u>		<del>†</del>							<del> </del>			\$ 89.06	\$0.00
#75 IH Doze			$\vdash$				-						+	╉╍┈			+	+	<u> </u>			2	2	┟╌							{·		4	\$ 42.05	\$168.20
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#59 J. D. Do			<b> </b>			<u> </u>		1	┨──	-			+	2		+	<u> -                                   </u>	<u> </u>	╂──		$\frac{2}{2}$	1	2	<u>  ·                                    </u>			┢──┨		····		+		5	\$ 28.29	\$141.45
#32 J.D. cra								1		+		+		<u> </u>		-	╉╼╌	+			<u> </u>			╉───			┨──┨							\$ 10.00	\$0.00
#97 air comp	o.				<u> </u>	<b> </b>		┨	<u> </u>				╂		-	4			╂		┢──	┨	+	<u> </u>			╎			-	<u> </u>		· · · · · · · · · · · · · · · · · · ·	\$ 10.00	\$70.00
#63 Welder	· · · · ·		<b>_</b>		ļ		<u> </u> _		+	+		<u> </u>		3		<u> </u>			╀╌	-	<u> </u>	<u> </u>	+	<u> </u>								+	1		\$166.56
#18 Tool Tru	ICK	2					2	2		-		<b> </b> -	<u> </u>	2	2	2	2	2	<u> </u>	-	2	2	2	<u> </u>	<u> </u>		2		<u> </u>			┢	24	\$ 6.94	
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No. of	Size							iais I					-	•	locat			lew/		lo.	*1	Jnits	ł	Uni			Tota		<u> </u>						
pieces					De					s use	d		<u>p</u>	urcha	ased (	from	_	lsed	U	nits				Cos			Cost					•	Total La	bor Costs:	\$13,401.04
8	40*						24" I	bear	ns									ew/		8		ach		1,21			9,680								
42	3"				-		plar	nk elip	)S					Freh	se Mi	ig.	n	ew/		42	0	ach	\$		1.10		- 46	6,20	Mat	erials	s (paç	ge 1)	: <b>\$</b>	12,378.26	
76	16'		1	<b>.</b> .			3*x1:	2" pla	ink					S	tock		u	sed	1:	216	l Ir	1. ft.	\$		1.72	\$	2,091	.52	Mat	erials	s (pag	ge 2)	: \$	18,088.74	1
13	24'						3"x1:	2" pla	ink				Г	s	tock		u	sed	3	312	In	1. ft.	\$		1.72	\$	536	6.64	ľ				otal Mai	larial Cast	\$30,467.00
10	lbs,		[					ing ro					1				1			10		lb	\$		2.39	\$	23	3,90	1			. '	otai mai	enal Cost	a30,497,00
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	Crawford	P	oject No.:						
No. Pieces	Size	Description of Materials Used:	Stockpile Location or Direct Purchase From	New or Used	No. Units	Units *(see below)	Unif	Cost	Total Cost
112'	12'	felt fabric	Denison		112	lin ft.	\$	0.72	\$80.64
	12'	mesh fabric	Denison		0	lin.	\$	2.00	\$0.00
	box	1"x6"x6" fabric staples	Denison		0	each	\$	21.70	\$0.00
			· · · · · · · · · · · · · · · ·		0				\$0.00
	8d	nails	Denison		0	lb.	\$	0.80	\$0.00
	16d	nails	Denison		0	lb.	\$	0.69	\$0.00
· · · · · · · · · · · · · · · · · · ·	16d	double head nails	Denison		0	lb.	\$	0.69	\$0.00
40	60d	ringshank spikes	Denison		40	lbs.	\$	1.35	\$54.00
					0				\$0.00
	3/4*	anchor bolts	Denison		0	each	\$	2.80	\$0.00
68	1/2"	maellable washers	Denison		68	each	\$	0.94	\$63.92
	3/4"	maellable washers	Denison		0	each	\$	0,94	\$0.00
	1/2"	flat washers	Denison		0	each	Ĺ		\$0.00
50	3/4"	flat washers	Denison		50	each	\$	0.30	\$15.00
		i			0				\$0.00
14	3/4"	2 1/2" bolts	Denison		14	each	\$	0.70	\$9.80
	3/4"	3" bolts	Denison		0	each	\$	0.80	\$0.00
28	1/2"	9" bolts	Denison		28	each	\$	1.05	\$29.40
12	1/2"	10" bolts	Denison		12	each	\$	0.98	\$11.76
	1/2"	11" bolts	Denison		0	each	\$	1.05	\$0.00
	1/2"	12" bolts	Denison		0	each	\$	1.84	\$0.00
144	7/8"	2 1/2" bolts	Denison		144	each	\$	0.86	\$123.84
	3/4"	8" bolt	Denison		0	each	\$	1.10	
	3/4"	9"bolt	Denison		0	each	\$	52.60	\$0.00
	3/4"	10" bolt	Denison		0	each	\$	. 1.25	\$0.00
	3/4"	11'	Denison		0	each	\$	1.45	\$0.00
<u></u>	3/4"	12" bolts	Denison		0	each	\$	1,93	\$0.00
	<u> </u>					Total Materia	ls (pa	ge four) :	\$388.3

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-	Crawford	<b>County Secondary Roads Material</b>	List	Pı				
No. Pieces	Size	Description of Materials Used:	Stockpile Location or Direct Purchase From	New or Used	No. Units	Units *(see below)	Unit Cost	Total Cost
24	3"x12"	16' Plank	Denison	new	384	In.ft.	\$ 3.44	\$1,320.96
	3"x12"	18' Plank	Denison	new	0	In.ft.	\$ 3.44	\$0.00
	3"x12"	20' Plank	Denison	new	0	In.ft.	\$ 3.44	\$0.00
	3"x12"	22' Plank	Denison	new	0	lin.ft.	\$ 3.60	\$0.00
28	3"x12"	24' plank	Denison	new	672	In.ft.	\$ 3,60	\$2,419.20
	4"x12"	16' plank			0	in,ft.	\$ 2.25	\$0.00
20	4"x12"	24' plank			480	In.inft.	\$ 3.99	\$1,915.20
	4"x16"	any length			0	In.ft	\$ 2.50	\$0.00
					0		\$-	\$0.00
	10"x10"	Wood Cap			0	In.ft.	\$ 9.17	\$0.00
	12"x12"	Wood Cap			0	In.ft.	\$ 13.20	\$0.00
			·		0		\$ -	\$0.00
	4"x6"	12' nailer			0	each	\$ 26.05	\$0.00
4	4"x6"	16' nailer			4	each	\$ 29.33	\$117.32
					0		\$-	\$0.00
	2"x4"	any length			0	In.ft.	\$ 0.28	\$0.00
	2"x6"	any length				In.ft.	\$ 0.39	\$0.00
	1/2"	4'x8' plywood			0	each	\$ 11.05	\$0.00
	3/4"	4'x8' plywood			0	each	<u>\$</u> -	\$0.00
					0		\$ -	\$0,00
4	25'	wood piling			4	each	\$ 173.91	\$695.64
4	30'	wood piling			. 4	each	\$ 200,94	
····	35'	wood piling			0	each	\$ 236.25	
	40'	wood piling			0	each	\$ 296.37	\$0.00
					0		\$ -	\$0.00
	8"x8"	40'steel@36lb./ft.			0	In, ft.	\$ 10.61	
	8"×8"	50'steel @36lb./ft			0	ln. ft	\$	\$0.00
	•	<u> </u>				Total Materia	ls (page two)	; \$7,272.0

	Crawford	County Secondary Roads Material	List	P	roject No.:			··· · · · · · · · · · · · · · · · · ·	
No. Pieces	Size	Description of Materials Used:	Stockpile Location or Direct Purchase From	New or Used	No. Units	Units *(see below)	Uı	nit Cost	Total (
	10"x10"	40' Stee! H@42 lb./ft.	Denison	new	0	lin. Ft	\$	8.50	\$0.0
12	10"x10"	50' Steel H@42 lb/ft	Denison	new	600	lin. Ft	\$	11,35	\$6,810
	10"	40' channel @15.3 lbs./ft.	Denison	new	0	lin. Ft,,	\$	3.13	\$0.0
	12"	40' channel @15.3 lbs./ft.	Denison	new	0	lin. Ft	\$	4.90	\$0.0
	1/2"x14"	10' steel plates	Denison	new	0	lin. Ft	\$	6.43	\$0.0
2	25'	Steel Caps			2	each	\$	565.40	\$1,130
	30 1/2"	Diaphragms			0	each	\$	31.04	\$0.0
42	38 1/2"	Diaphragms			42	each	\$	37.43	\$1,572
14	85lb.	rail posts			14	each	\$	8.50	\$119.
	straight 20'	7 ga.sheet piling	Denison	new	0	each	\$	123.22	\$0.0
	45degree	sheet piling	Denison	new	0	each	\$	151.40	\$0.0
	90degree	sheet piling	Denison	new	0	each	\$	139.80	\$0.0
					0				\$0.0
2 -	13'	gaurdrail		used	26	lin. Ft	<b>Ş</b>	1.00	\$26,0
2	26'	gaurdrail			52	lin. Ft,.	\$	1.00	\$52.0
	25'	W-beam gaurdrail		new	0	lin. Ft	\$	4.95	\$0.0
4	2'	gaurdrail terminal ends		new	4	each	\$	24.95	\$99.8
	1/4*	2 1/2"x2 1/2" angle 20'	Denison	new	0	lin. Ft	\$	0.78	\$0.0
	3/8*	3"x3" angle 20'	Denison	new	0	lin. Ft	\$	1.35	\$0.0
					0				\$0.0
730'	1/2"	wire cable	Denison	new	730	lin. Ft	\$	0.68	\$496.
64	1/2"	cable clamps	Denison	new	64	each	\$	1.91	\$122.
					0				\$0.0
	1/2"	20' rebar	Denison	new	0	lin. Ft.	\$	0.16	\$0.0
	5/8"	20' rebar	Denison	new	0	lin. Ft.	\$	0.24	\$0.0
<u> </u>	5/8"	20" rebar with Epoxy	Denison	new	0	each	\$	0.27	\$0.0
÷.,					0			-	\$0.0