



## Structure Inventory and Appraisal

Bridge ID: MORGAN-130485  
FHWA No.: 130485

Official	SR: 83.8	SD/FO: Not Deficient or Obsolete
Unofficial	SR: 83.8	SD/FO: Not Deficient or Obsolete

<p style="text-align: center;"><b>IDENTIFICATION</b></p> <p>7 Facility Carried: LOCAL 5B Rte. Signing Prefix: 4 5C Level of Service: 1 - MAINLINE 5D Inventory Route: 00000 City: RURAL 3 County: 024 - Crawford 9 Location: 085400102 5E Directional Suffix: 0 - NOT APPLICABLE 6 Feature Intersected: BEAVER CREEK 2 District: 0 Garage: 000 98 Border Bridge Code: % Responsibility: 0 99 Border Bridge No.:</p>	<p style="text-align: center;"><b>INSPECTION</b></p> <p>90 Inspection Date: 04/01/2016      Inspection Type: N/A Next Routine Insp Date: 04/01/2018      91 Frequency: 24 Next Insp Type: Regular Inspection Agency: 5 - Consultant      Inspection Group: Crawford County 93A FC Inspection Date: 92A FC Frequency: 0      Next FC Insp.: NA 93B UW Inspection Date: 92B UW Frequency: 0      Next UW Insp.: NA 93C SI Date: 92C SI Frequency: 0      Next Spec. Insp.: NA Other Non-NBI Date: Next Other Insp.: NA Other Non-NBI Freq.:</p>
<p style="text-align: center;"><b>STRUCTURE TYPE AND MATERIALS</b></p> <p>43A Main Span 3 - Steel 43B Main Span Design: 02 - Stringer/Multi-beam or Girder 45 No. Spans Main Unit: 1 44A Appr. Span 000 - NA 44B Appr. Span Design: 000 - NA 46 No. of Appr. Spans: Near 0 Far 0 107 Deck Type: 8 - Wood or Timber 108A Wearing Surface: 8 - Gravel 108B Membrane: 0 - None 108C Deck Protection: 0 - None</p>	<p style="text-align: center;"><b>CONDITION</b></p> <p>58 Deck: 7 - Good Condition (some minor problems) 59 Super: 6 - Satisfactory Condition (minor deterioration) 60 Sub: 6 - Satisfactory Condition (minor deterioration) 61 Channel/Channel Prot.: 7 - Bank protection needs minor repairs 62 Culvert: N - Not Applicable</p>
<p style="text-align: center;"><b>GEOMETRIC DATA</b></p> <p>48 Length Max Span: 41 ft. 49 Structure Length: 43 ft. 34 Skew: 0° Deck Area: 1010.5 sq. ft. 50B Curb/Sdwk Width R: 0 ft. 50A Curb/Sdwk Width L: 0 ft. 51 Width Curb to Curb: 23.5 ft. 52 Width Out to Out: 23.5 ft. 32 Appr. Roadway width: 26 ft. (w/ Shoulders) 33 Median: 0 - No median 35 Structure Flared: 00 - No flare 10 Vertical Clearance: 99'99" 47 Horiz. Clearance: 20'04" 53 Min. Vert. Clearance Over: 99'99" 54B Min. Vert. Underclearance: 00'00" 55 Min. Lat. Underclearance R: 00'00" 56 Min. Lat. Underclearance L: 00'00"</p>	<p style="text-align: center;"><b>APPRAISAL</b></p> <p>67 Str. Evaluation: 6 - Equal to present minimum criteria 68 Deck Geometry: 5 - Somewhat better than minimum adequacy 69 Underclear Vert &amp; Horiz: N - Not applicable 71 Waterway Adequacy: 6 - Occasional Overlapping of Approaches 72 Approach Alignment: 6 - Equal to present minimum criteria 38A Bridge Rail: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED. 38B Transition: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED 38C Approach Rail: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED 38D Approach Rail Ends: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED 113 Scour Critical: 8 - Stable - Excellent Condition</p>
<p style="text-align: center;"><b>NAVIGATION DATA</b></p> <p>38 Navigation Control: 0 - No navigation control on waterway (bridge permit not required) 111 Pier Protection: 39 Vertical Clearance: 00'00" 40 Horiz. Clearance: 000'00"</p>	<p style="text-align: center;"><b>LOAD RATING AND POSTING</b></p> <p>31 Design Load: 0 - Unknown 63 Rating Method: 1 - Load Factor (LF) reported in english tons using HS-20 loading. 64 Operating Rating: 32.4 Tons 65 Rating Method: 1 - Load Factor (LF) reported in english tons using HS-20 loading. 66 Inventory Rating: 27.0 Tons 70 Posting: 5 - Equal to or above legal loads 41 Posting Status: A - Open</p>
<p>16 Latitude: 42.20114233      17 Longitude: -85.45878522</p>	<p style="text-align: center;"><b>AGE AND SERVICE</b></p> <p>27 Year Built: 1971      Design No.: 0 106 Year Reconstructed: 2011 42A Type of Service on: 1 - Highway 42B Type of Service Under: 5 - Waterway 28A Lanes on: 2      28B Lanes under: 0 29 ADT: 20      30 Year of ADT: 2012 109 Truck ADT: 0%      Speed Limit: 55 19 Detour Length: 4 ml.</p>
<p>FRA No. (if RR Bridge): Mile Post:</p>	<p style="text-align: center;"><b>CLASSIFICATION</b></p> <p>112 NBIS Length: Y 26 Functional Class: 09 - Rural - Local 100 STRAHNET: 0 - Not a defense highway 101 Parallel Structure: N - No parallel structure 102 Direction of Traffic: 2 - 2-way traffic 22 Owner: 02 - County Highway Agency 21 Custodian: 02 - County Highway Agency 37 Historical Significance: 5 - Not eligible 75A Type of Work Proposed: 75B Work Done by:</p>



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**IDENTIFICATION**

7 Facility Carried: LOCAL  
 5B Rte. Signing Prefix: 4  
 5C Level of Service: 1 - MAINLINE  
 5D Inventory Route: 00000  
 City: RURAL  
 3 County: 024 - Crawford  
 9 Location: 085400102  
 5E Directional Suffix: 0 - NOT APPLICABLE  
 6 Feature Intersected: BEAVER CREEK  
 2 District: 0  
 Garage: 000  
 98 Border Bridge Code:  
 % Responsibility: 0  
 99 Border Bridge No.:

**INSPECTION**

**90 Inspection Date:** 04/25/2014  
 Next Routine Insp Date: 04/25/2016  
 Inspection Agency: 5 - Consultant  
 93A FC Inspection Date:  
 92A FC Frequency: 0  
 93B UW Inspection Date:  
 92B UW Frequency: 0  
 93C SI Date:  
 92C SI Frequency: 0  
 Other Non-NBI Date:  
 Other Non-NBI Freq.:

Inspection Type: N/A  
 91 Frequency: 24  
 Next Insp Type: Regular  
 Inspection Group: Crawford County  
 Next FC Insp.: NA  
 Next UW Insp.: NA  
 Next Spec. Insp.: NA  
 Next Other Insp.: NA

**STRUCTURE TYPE AND MATERIALS**

43A Main Span 3 - Steel  
 43B Main Span Design: 02 - Stringer/Multi-beam or Girder  
 45 No. Spans Main Unit: 1  
 44A Appr. Span 000 - NA  
 44B Appr. Span Design: 000 - NA  
 46 No. of Appr. Spans: Near 0 Far 0  
 107 Deck Type: 8 - Wood or Timber  
 108A Wearing Surface: 8 - Gravel  
 108B Membrane: 0 - None  
 108C Deck Protection: 0 - None

**CONDITION**

58 Deck: 7 - Good Condition (some minor problems)  
 59 Super: 6 - Satisfactory Condition (minor deterioration)  
 60 Sub: 6 - Satisfactory Condition (minor deterioration)  
 61 Channel/Channel Prot.: 7 - Bank protection needs minor repairs  
 62 Culvert: N - Not Applicable

**GEOMETRIC DATA**

48 Length Max Span: 41 ft.  
 49 Structure Length: 43 ft.  
 34 Skew: 0°  
 Deck Area: 1010.5 sq. ft.  
 50B Curb/Sdwb Width R: 0 ft.  
 50A Curb/Sdwb Width L: 0 ft.  
 51 Width Curb to Curb: 23.5 ft.  
 52 Width Out to Out: 23.5 ft.  
 32 Appr. Roadway width: 26 ft.  
 (w/ Shoulders)  
 33 Median: 0 - No median  
 35 Structure Flared: 00 - No flare  
 10 Vertical Clearance: 99'99"  
 47 Horiz. Clearance: 20'04"  
 53 Min. Vert. Clearance Over: 99'99"  
 54B Min. Vert. Underclearance: 00'00"  
 55 Min. Lat. Underclearance R: 00'00"  
 56 Min. Lat. Underclearance L: 00'00"

**APPRAISAL**

67 Str. Evaluation: 6 - Equal to present minimum criteria  
 68 Deck Geometry: 5 - Somewhat better than minimum adequacy  
 69 Underclear Vert & Horiz: N - Not applicable  
 71 Waterway Adequacy: 6 - Occasional Overtopping of Approaches  
 72 Approach Alignment: 6 - Equal to present minimum criteria  
 36A Bridge Rail: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED.  
 36B Transition: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED  
 36C Approach Rail: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED  
 36D Approach Rail Ends: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED  
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**NAVIGATION DATA**

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 0 - No navigation control on waterway (bridge permit not required)  
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**LOAD RATING AND POSTING**

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 70 Posting: 5 - Equal to or above legal loads  
 41 Posting Status: A - Open

16 Latitude: 42.20114233      17 Longitude: -95.45878522

**AGE AND SERVICE**

27 Year Built: 1971      Design No.: 0  
 106 Year Reconstructed: 2011  
 42A Type of Service on: 1 - Highway  
 42B Type of Service Under: 5 - Waterway  
 28A Lanes on: 2      28B Lanes under: 0  
 29 ADT: 20      30 Year of ADT: 2012  
 109 Truck ADT: 0 %      Speed Limit: 55  
 19 Detour Length: 4 mi.

FRA No. (if RR Bridge):  
 Mile Post:


**CLASSIFICATION**

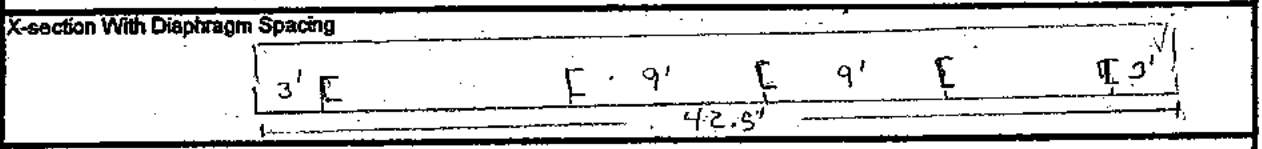
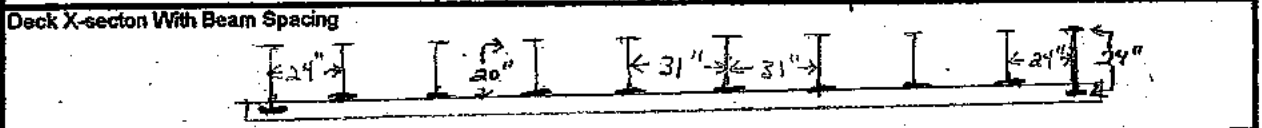
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 101 Parallel Structure: N - No parallel structure  
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 21 Custodian: 02 - County Highway Agency  
 37 Historical Significance: 5 - Not eligible  
 75A Type of Work Proposed:  
 75B Work Done by:

# Crawford County Day Labor Bridge Construction

Prepared By: TERRY Date: 4-14-11  
 Township: MORGAN Section: 1 & 2 E911 Rd.: 210  
 FHWA No.: 130485 Date Reconstructed: 4-14-11

Describe Work: Add 5 rows of diaphragms to 8 existing 20" I beams and add 2 outside 24" I beams notched to 20" to match and put on new railing posts and guard rail.

Bridge Length: <u>43'</u>	Bridge Width: <u>23'-6"</u>	Open Depth: <u>14'</u>				
Beam Info.	Deck Info.	Diaphragm Info.				
Beam Type: <u>W (S)</u>	Deck Type: <u>WOOD</u>	# Bolts per Angle: <u>3</u>				
Beam Spacing: <u>31" C-C</u>	Top: <u>3" x 12" Longitudinal</u>	Bolt Size: <u>7/8"</u>				
Beam Depth: <u>20"</u>	Bottom: <u>4" x 16" Transverse</u>	Diaphragm Length: <u>30.5</u>				
Flange: <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 50px;">Width</td><td style="width: 50px;">Thickness</td></tr><tr><td style="text-align: center;"><u>7"</u></td><td style="text-align: center;"><u>3/4" + 1/4"</u></td></tr></table>	Width	Thickness	<u>7"</u>	<u>3/4" + 1/4"</u>	Spacing on Bottom: <u>28" C-C</u>	Diaphragm Size: <u>10"</u>
Width	Thickness					
<u>7"</u>	<u>3/4" + 1/4"</u>					
Web Thickness: <u>1/2"</u>						



Substructure Comments: 6 WOOD PILING IN EACH ABUTMENT with riveted steel caps

Comments:



Crawford County Secondary Roads Material List				Project No.:				
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
	12'	felt fabric	Denison		0	lin ft.	\$ 0.72	\$0.00
	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
	60d	ringshank spikes	Denison		0	lbs.	\$ 1.35	\$0.00
					0			\$0.00
	3/4"	anchor bolts	Denison		0	each	\$ 2.80	\$0.00
	1/2"	maellable washers	Denison		0	each	\$ 0.94	\$0.00
	3/4"	maellable washers	Denison		0	each	\$ 0.94	\$0.00
	1/2"	flat washers	Denison		0	each		\$0.00
	3/4"	flat washers	Denison		0	each		\$0.00
					0			\$0.00
	3/4"	2 1/2" bolts	Denison			each	\$ 0.70	\$0.00
	3/4"	3" bolts	Denison		0	each	\$ 0.80	\$0.00
	1/2"	9" bolts	Denison		0	each	\$ 1.05	\$0.00
	1/2"	10" bolts	Denison		0	each	\$ 0.98	\$0.00
	1/2"	11" bolts	Denison		0	each	\$ 1.05	\$0.00
	1/2"	12" bolts	Denison		0	each	\$ 1.84	\$0.00
	7/8"	2 1/2" bolts	Denison		0	each	\$ 0.86	\$0.00
	3/4"	8" bolt	Denison		0	each	\$ 1.10	\$0.00
	3/4"	9" bolt	Denison		0	each	\$2.60	\$0.00
	3/4"	10" bolt	Denison		0	each	\$ 1.25	\$0.00
	3/4"	11'	Denison		0	each	\$ 1.45	\$0.00
	3/4"	12" bolts	Denison		0	each	\$ 1.93	\$0.00
<b>Total Materials (page four) :</b>								<b>\$0.00</b>



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	1/2"	10" bolts	Denison		0	each	\$ 0.98	\$0.00
	1/2"	11" bolts	Denison		0	each	\$ 1.05	\$0.00
	1/2"	12" bolts	Denison		0	each	\$ 1.84	\$0.00
	7/8"	2 1/2" bolts	Denison		0	each	\$ 0.86	\$0.00
	3/4"	8" bolt	Denison		0	each	\$ 1.10	\$0.00
	3/4"	9" bolt	Denison		0	each	\$2.60	\$0.00
	3/4"	10" bolt	Denison		0	each	\$ 1.25	\$0.00
	3/4"	11"	Denison		0	each	\$ 1.45	\$0.00
	3/4"	12" bolts	Denison		0	each	\$ 1.93	\$0.00
<b>Total Materials (page four) :</b>								<b>\$0.00</b>