

# Bridge Inspection Report

**A5706**  
**I 440 WB Log 7.11**  
**over**  
**US 165-SEC 9, RR**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

Inspector:

Structure Number: A5706

Inspection Date:

Facility Carried: I 440 WB Log 7.11

## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	05/22/2017
(8) STRUCTURE NUMBER	A5706	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 1 1 440 4	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	06 (3) COUNTY CODE 119	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	US 165-SEC 9, RR	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	I 440 WB Log 7.11		
(9) LOCATION	2.6MI SO OFUS 70-(I-7)		
(11) MILEPOINT 7.110	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000440010 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.73515	(17) LONGITUDE -92.17030		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	6
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(59) SUPERSTRUCTURE	5
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(60) SUBSTRUCTURE	7
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	N
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN	4 (46) NUMBER OF APPROACH	0	
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE	1	
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION	0	
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1979 (106) YEAR RECONSTRUCTED	0000	
(42) TYPE OF SERVICE	ON 6 UNDER 4	(31) DESIGN LOAD	6
(28) LANES	ON 04 UNDER 02	(63) METHOD USED TO DETERMINE OPERATING RATING	1
(29) AVERAGE DAILY TRAFFIC	54813 (19) BYPASS DETOUR LENGTH	(64) OPERATING RATING	60.0
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(109) AVERAGE DAILY TRUCK TRAFFIC	1	(66) INVENTORY RATING	36.0
GEOMETRIC DATA		(70) BRIDGE POSTING	5
(48) LENGTH OF MAX SPAN (ft.)	87 (49) STRUCTURE LENGTH (ft.)	(41) STRUCTURE OPEN/POSTED/CLOSED	A
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0 RIGHT 0		
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	64.0	APPRAISAL	
(52) DECK WIDTH, OUT-TO-OUT (ft.)	66.8	(67) STRUCTURAL EVALUATION	5
(32) APPROACH ROADWAY WIDTH (ft.)	64.0	(68) DECK GEOMETRY	5
(33) BRIDGE MEDIAN	3 (34) SKEW (DEG.)	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	6
(35) STRUCTURE FLARED	1 (10) INV RTE, MIN VERT CLEAR (ft.)	(71) WATERWAY ADEQUACY	N
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	65.9	(72) APPROACH ROADWAY ALIGNMENT	8
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	(36) TRAFFIC SAFETY FEATURE	
(54) VERTICAL UNDER CLEARANCE (ft.)	H 24.08	36A) BRIDGE RAILINGS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H 13.3	36B) TRANSITIONS:	0
(56) MIN LATERAL UNDER CLEARANCE (ft.)	4.7	36C) APPROACH GUARDRAIL:	0
PROPOSED IMPROVEMENTS		36D) APPROACH GUARDRAIL ENDS:	0
(75A) TYPE OF WORK PROPOSED	35 (75B) WORK DONE BY	(113) SCOUR CRITICAL BRIDGES	N
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	336.0	SUFFICIENCY RATING	78.0
(94) BRIDGE IMPROVEMENT COST (\$)	0	STATUS	0
(95) ROADWAY IMPROVEMENT COST (\$)	0	CLASSIFICATION	
(96) TOTAL PROJECT COST	1006	(112) NBIS BRIDGE LENGTH	Y
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2000	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(114) FUTURE ADT	29812 (115) YEAR OF FUTURE ADT	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	11
	2028	(100) STRAHNET HIGHWAY DESIGNATION	1
		(101) PARALLEL STRUCTURE DESIGNATION	L
		(102) DIRECTION OF TRAFFIC	1
		(103) TEMP STRUCTURE	
		(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	1
		(20) TOLL	3
		(21) MAINTENANCE RESPONSIBILITY	01
		(22) OWNER	01
		(37) HISTORICAL	5
		NAVIGATION DATA	
		(38) NAVIGATION CONTROL	N
		(111) PIER OR ABUTMENT PROTECTION	1
		(39) NAV VERT CLEARANCE (ft.)	0
		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
		(40) NAV HORIZONTAL CLEARANCE (ft.)	0

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## Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>12 - Reinforced Concrete Deck</b>	1- Ben.	24605	sq. ft.	20914	3691	0	0
Scattered longitudinal and transverse cracks all spans.							
1130 - Cracking (RC and Other)		3691		0	3691	0	0
<b>107 - Steel Open Girder/Beam</b>	1- Ben.	3754	ft.	3289	465	0	0
The previous fatigue cracks have been arrested. No new cracks noted. All beams have scattered areas of freckling rust on the webs and flanges.							
1000 - Corrosion		448		0	448	0	0
1010 - Cracking		17		0	17	0	0
515 - Steel Protective Coating		36793	sq. ft.	0	32147	4391	255
3440 - Effectiveness (Steel Protective Coatings)		36793		0	32147	4391	255
<b>205 - Reinforced Concrete Column</b>	1- Ben.	10	each	10	0	0	0
<b>215 - Reinforced Concrete Abutment</b>	1- Ben.	181	ft.	80	100	1	0
Both abutments have map cracking in the back walls. Bent 1 has a diagonal crack at the wing wall.							
1130 - Cracking (RC and Other)		101		0	100	1	0
<b>234 - Reinforced Concrete Pier Cap</b>	1- Ben.	218	ft.	212	0	6	0
Cracks on the bottom of the cap of bent 3 between columns 1 & 2.							
1130 - Cracking (RC and Other)		6		0	0	6	0
<b>302 - Compression Joint Seal</b>	1- Ben.	414	ft.	0	236	0	178
All of the seals leak. Bent 5 has about 40 feet of joint armor and seal missing. All of the seal is missing at bent 2.							
2310 - Leakage		89		0	0	0	89
2330 - Seal Damage		89		0	0	0	89
2340 - Seal Cracking		236		0	236	0	0
<b>310 - Elastomeric Bearing</b>	1- Ben.	90	each	0	90	0	0
All of the fabrica bearings are weathered and have small cracks							
2230 - Bulging, Splitting, or Tearing		90		0	90	0	0
<b>321 - Reinforced Concrete Approach Slab</b>	1- Ben.	4348	sq. ft.	2174	2174	0	0
<b>331 - Reinforced Concrete Bridge Railing</b>	1- Ben.	672	ft.	349	323	0	0
1130 - Cracking (RC and Other)		323		0	323	0	0

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**Bridge Inspection Report**

**Pictures**

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 5/2/2012 12:00:00 AM

Priority: C - Important

Work Code:

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#### Deficiency Description:

Bent # 3 & 5

Joint armor missing.

Photo attached.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Monitor



PHOTO 1      Description      Joint armor missing at bent 5

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## Maintenance Needs

Date Reported: 5/2/2012 12:00:00 AM

Priority: C - Important

Work Code:

---

### Deficiency Description:

All bents.

Joint seal torn & some have partially fallen out.

### Work Description:

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Date Repairs Completed:

Maintenance Comments:

---

Stage: Monitor



PHOTO 1      Description      Bent 2 joint seal has fallen out.

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**Maintenance Needs**

**Date Reported:** 5/7/2013 12:00:00 AM

**Priority:** C - Important

**Work Code:**

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**Deficiency Description:**

Deck all spans large unsealed cracks.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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