

# Bridge Inspection Report

**05266**

**US 412-09- LM 0.83**

**over**

**EIGHT MILE CREEK**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

Inspector:

Structure Number: 05266

Inspection Date:

Facility Carried: US 412-09- LM 0.83

## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	08/24/2015
(8) STRUCTURE NUMBER	05266	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 412 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	10 (3) COUNTY CODE 055	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	50840	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	EIGHT MILE CREEK	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 412-09- LM 0.83		
(9) LOCATION	1.8 Mi E Jct US 49		
(11) MILEPOINT 0.830	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000412090 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 36.05259	(17) LONGITUDE -90.47410		
(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: 2 - Concrete continuous		(59) SUPERSTRUCTURE	7
B) TYPE OF DESIGN/CONSTR: 01 - Slab		(60) SUBSTRUCTURE	7
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	7
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN	3 (46) NUMBER OF APPROACH		
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE		
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION		
	0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1972 (106) YEAR RECONSTRUCTED	(31) DESIGN LOAD	5
(42) TYPE OF SERVICE	ON 1 UNDER 5	(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES	ON 04 UNDER 00	(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC	15000 (19) BYPASS DETOUR LENGTH	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(66) INVENTORY RATING	36.0
(109) AVERAGE DAILY TRUCK TRAFFIC	1	(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	50 (49) STRUCTURE LENGTH (ft.)	(67) STRUCTURAL EVALUATION	7
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 3 RIGHT 3	(68) DECK GEOMETRY	3
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	49.9	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	58.3	(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.)	49.9	(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	36A) BRIDGE RAILINGS:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	56.1	36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	36D) APPROACH GUARDRAIL ENDS:	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(113) SCOUR CRITICAL BRIDGES	5
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	SUFFICIENCY RATING	2
		STATUS	77.2
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	35 (75B) WORK DONE BY	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	132.0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	14
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	345	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2000	(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT	20078 (115) YEAR OF FUTURE ADT	(103) TEMP STRUCTURE	
	2028	(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	0
		(111) PIER OR ABUTMENT PROTECTION	5
		(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>38 - Reinforced Concrete Slab</b>	1- Ben.	7696	sq. ft.	6747	924	24	1
1080 - Delamination/Spall/Patched Area		297			296		1
1120 - Efflorescence/Rust Staining		124			100	24	
1130 - Cracking (RC and Other)		528			528		
<b>215 - Reinforced Concrete Abutment</b>	1- Ben.	119	ft.	119			
<b>227 - Reinforced Concrete Pile</b>	1- Ben.	26	each	26			
<b>234 - Reinforced Concrete Pier Cap</b>	1- Ben.	119	ft.	119			
<b>321 - Reinforced Concrete Approach Slab</b>	1- Ben.	3500	sq. ft.	3430	70	0	0
1130 - Cracking (RC and Other)		70			70		
<b>333 - Other Bridge Railing</b>	1- Ben.	264	ft.	264			



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### Pictures



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## Bridge Inspection Report

### Maintenance Needs

**Date Reported:** 8/23/2011 12:00:00 AM

**Priority:** C - Important

**Work Code:**

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**Deficiency Description:**

Top of Deck

has minor size and moderate density longitudinal and transverse cracks, a few moderate size longitudinal cracks.

Spans 1 thru 3 Concrete Deck has several spalls, pending spalls, & concrete delaminating around patches (3% to 4% total of area of deck, (250 sf) ).

Span 3 near Bent 3 in west bound lanes has 4 spalled out areas, 8 in. to 12 in. in diameter, with rebar exposed, see 2013 Photo.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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**Date Reported:** 8/23/2011 12:00:00 AM

**Priority:** G - General/ Preventive maintenance

**Work Code:**

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**Deficiency Description:**

Approach Slabs

has insignificant size and minor density cracks.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 8/23/2011 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

---

#### Deficiency Description:

Bottom of Deck

has insignificant size and moderate density cracks in bottom of deck with some efflorescence and rust stains visible.

Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Monitor



PHOTO 1      Description

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### Bridge Inspection Report

## Maintenance Needs

Date Reported: 8/22/2013 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

---

### Deficiency Description:

Cap Bent 4  
has a minor size crack near center of cap.

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 08/24/2015

Priority: C - Important

Work Code:

---

#### Deficiency Description:

Span 3  
impending spall 6 ft. x 4 ft. Bottom of deck.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Open



PHOTO 1      Description