

Bridge Inspection Report

02503

SH 140-01- LM 9.11

over

LITTLE RIVER



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: 02503

Inspection Date:

Facility Carried: SH 140-01- LM 9.11

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	05/23/2016
(8) STRUCTURE NUMBER	02503	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 140 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	10 (3) COUNTY CODE 111	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	LITTLE RIVER	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 140-01- LM 9.11		
(9) LOCATION	0.7 MI W JCT SH 135		
(11) MILEPOINT 9.110	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000140010 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.61364	(17) LONGITUDE -90.34523		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	5
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	7
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN	8 (46) NUMBER OF APPROACH		
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE		
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1948 (106) YEAR RECONSTRUCTED	(31) DESIGN LOAD	2
(42) TYPE OF SERVICE	ON 1 UNDER 5	(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES	ON 02 UNDER 00	(64) OPERATING RATING	49.1
(29) AVERAGE DAILY TRAFFIC	2700 (19) BYPASS DETOUR LENGTH	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(66) INVENTORY RATING	30.0
(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.)	34 (49) STRUCTURE LENGTH (ft.)	(67) STRUCTURAL EVALUATION	5
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 1.5 RIGHT 1.5	(68) DECK GEOMETRY	2
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	24.0	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	29.5	(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.)	27.9	(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:	0
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	26.9	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	58.7
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	31 (75B) WORK DONE BY	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	310	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	06
(95) ROADWAY IMPROVEMENT COST (\$)	156	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	822	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2002	(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT	2980 (115) YEAR OF FUTURE ADT	(103) TEMP STRUCTURE	
		(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	0
		(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

Note: Approx. 0.3" ACHM
overlay on deck

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	8083	sq. ft.	6576	0	1507	0
1120 - Efflorescence/Rust Staining		1507				1507	
510 - Wearing Surfaces		6549	sq. ft.	6334	215	0	0
3220 - Crack (Wearing Surface)		215			215		
107 - Steel Open Girder/Beam	1- Ben.	1370	ft.	1210	160	0	0
1000 - Corrosion		160			160		
515 - Steel Protective Coating		9548	sq. ft.	8116	0	0	1432
3440 - Effectiveness (Steel Protective Coatings)		1432					1432
215 - Reinforced Concrete Abutment	1- Ben.	69	ft.	69			
227 - Reinforced Concrete Pile	1- Ben.	28	each	28			
234 - Reinforced Concrete Pier Cap	1- Ben.	173	ft.	173			
304 - Open Expansion Joint	1- Ben.	100	ft.	100			
311 - Movable Bearing	1- Ben.	40	each	0	40	0	0
1000 - Corrosion		40			40		
313 - Fixed Bearing	1- Ben.	40	each	40			
333 - Other Bridge Railing	1- Ben.	548	ft.	548			

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Bridge Inspection Report

Maintenance Needs

Date Reported: 5/21/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Majority of Girders

Are rusted with pitting and/or initial section loss to ends over Caps,(1/8 in.- ¼ in. to web and bottom flange typical).

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

Structure Number: 02503

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 5/21/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Ends of several Girders have cracks and holes rusted thru web near concrete haunch (See 2012 & 2014 Photos):

Span 1 Girder 4 Bent 1 has a 1 1/4in. x 1/4in. hole at haunch with a 1 1/2in. crack at end of hole, see 2014 photo

Span 1 Girder 4 Bent 2 has a 4in. x 3/4in. hole at haunch

Span 2 Girder 2 Bent 3 has a 3 1/2in. x 1in. hole at haunch

Span 2 Girder 3 Bent 3 has a 6 1/2in. x 1 1/2in. hole at haunch

Span 3 Girder 3 Bent 4 has a 1 1/2in. x 3/4in. hole at haunch

Span 3 Girder 5 Bent 4 has a 1 1/2in. x 1in. hole at haunch

Span 4 Girder 2 Bent 5 has a 1in. x 1/2in. hole at haunch

Span 4 Girder 4 Bent 5 has a 2 each 1/4in. diameter holes at haunch

Span 4 Girder 5 Bent 5 has a 3/4in. x 1in. hole at haunch

Span 5 Girder 3 Bent 5 has a 1/4 diameter hole at haunch

Span 5 Girder 4 Bent 5 has a 1 1/4in. x 1/2in. hole at haunch

Span 5 Girder 3 Bent 6 has a 1/4 diameter hole at haunch

Span 5 Girder 4 Bent 6 has a 4 1/2in. x 1in. hole at haunch

Span 5 Girder 5 Bent 6 has a 6 1/2in. x 3/4in. hole at haunch

Span 6 Girder 2 Bent 7 has a 2 1/2in. x 1/2in. hole at haunch

Span 6 Girder 3 Bent 7 has a 1/2in. diameter hole at haunch

Span 6 Girder 4 Bent 7 has a 2 1/2in. x 1/2in. hole at haunch

Span 7 Girder 2 Bent 8 has a 1in. x 3/4in. hole at haunch

Span 7 Girder 4 Bent 8 has a 6 1/2in. x 1/2in. hole at haunch

Span 8 Girder 4 Bent 8 has a 1in. x 1/4in. hole at haunch

Span 8 Girder 5 Bent 8 has a 1 1/2in. x 1/4in. hole at haunch

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



Inspector:

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Maintenance Needs



PHOTO 1 Description

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Maintenance Needs

Date Reported: 5/21/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

A few girders are floating (1/16 in. - 1/8 in.), see 2014 photo of Span 4 Girder 4 Bent 4 for typical:

Span 4 Girders 2, 3 & 4 over Bent 4

Span 5 Girders 2, 3 & 4 over Bent 5

Span 7 Girder 2 over Bent 7

Span 7 Girder 2 over Bent 8

Span 8 Girder 4 over Bent 8

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 5/21/2012 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Bearings

Are rusted with pitting and initial section loss. Several Bearings have pack rust.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Maintenance Needs

Date Reported: 5/21/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Majority of anchor bolts and or nuts
rusted with section loss, several nuts have complete loss of section.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 5/21/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Top of Cap Bents 6, 7, & 9
Have heavy dirt and debris on top of cap.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 5/21/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Right end of bottom of Cap Bent 6
Shelled off with exposed rebar and the face of cap has a longitudinal crack 4in. from bottom.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Maintenance Needs

Date Reported: 5/21/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Several feet of Sliding plates are broke and missing:

Bent 2 = 24ft.

Bent 3 = 16ft. , see 2014 photo

Bent 6 = 20ft. , see 2014 photo

Bent 7 = 17ft. remainder of Bent 7 (6 ft.) is broken, see 2014 photo

Bent 9 = 24ft. is rusted and cracked, see 2014 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 5/28/2014 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Top of Deck

Seal Coat has numerous 6in. diameter pop outs.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Maintenance Needs

Date Reported: 5/28/2014 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Right end of Bent 4 Cap
Is cracked with rust stains.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 5/28/2014 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Bottom of Deck
Has several cracks with efflorescence

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 5/28/2014 12:00:00 AM

Priority: B - Pressing; 6 month completion goal

Work Code:

Deficiency Description:

Span 3 Girder 5 Bent 3
Has a 9in. crack at haunch with some crushing, see 2014 photo

Work Description:

Date Repairs Completed:

Maintenance Comments:

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Maintenance Needs

Date Reported: 5/28/2014 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Bent 6 has a small drift lodged on piling.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 5/28/2014 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Bents 4&5 Pile 4

Is cracked near the bottom of cap, 1.5ft cracks, see 2014 photo of Bent 5 Pile 4 of typical.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 5/28/2014 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Bent 3 Cap

Has some rebar exposed due to steel coverage.

Work Description:

Date Repairs Completed:

Maintenance Comments:
