

# Bridge Inspection Report

**06087**

**US 412-09- LM 0.06**

**over**

**2ND ST & SLSW RR**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

Inspector:

Structure Number: 06087

Inspection Date:

Facility Carried: US 412-09- LM 0.06

## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	06/27/2016
(8) STRUCTURE NUMBER	06087	(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	2ND ST & SLSW RR	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 412-09- LM 0.06		
(9) LOCATION	.95 MI E Jct US 49	CONDITION	
(11) MILEPOINT 0.060	(12) BASE HIGHWAY NETWORK 1	(58) DECK	8
(13A) LRS INVENTORY ROUTE 0000412090	(13B) SUBROUTE NUMBER 00	(59) SUPERSTRUCTURE 7	(60) SUBSTRUCTURE 8
(16) LATITUDE 36.05251	(17) LONGITUDE -90.48849	(61) CHANNEL & CHANNEL PROTECTION	N (62) CULVERT N
(98A) BORDER BRIDGE CODE		LOAD RATING AND POSTING	
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT	(31) DESIGN LOAD	5
		(63) METHOD USED TO DETERMINE OPERATING RATING	1
		(64) OPERATING RATING	60.0
		(65) METHOD USED TO DETERMINE INVENTORY RATING	1
		(66) INVENTORY RATING	36.0
		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
STRUCTURE TYPE AND MATERIAL		APPRAISAL	
(43) STRUCTURE TYPE, MAIN		(67) STRUCTURAL EVALUATION	7
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(68) DECK GEOMETRY	3
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	5
(44) STRUCTURE TYPE, APPROACH SPANS		(71) WATERWAY ADEQUACY	N
A) KIND OF MATERIAL/DESIGN: 0 - Other		(72) APPROACH ROADWAY ALIGNMENT	8
B) TYPE OF DESIGN/CONSTR: 00 - Other		(36) TRAFFIC SAFETY FEATURE	
(45) NUMBER OF SPANS IN MAIN 9	(46) NUMBER OF APPROACH 0	36A) BRIDGE RAILINGS:	1
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 1	36B) TRANSITIONS:	0
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0	36C) APPROACH GUARDRAIL:	1
		36D) APPROACH GUARDRAIL ENDS:	1
AGE OF SERVICE		(113) SCOUR CRITICAL BRIDGES	N
(27) YEAR BUILT 1984	(106) YEAR RECONSTRUCTED 0000	SUFFICIENCY RATING	2 STATUS 80.0
(42) TYPE OF SERVICE ON 5 UNDER 4		CLASSIFICATION	
(28) LANES ON 04 UNDER 02		(112) NBIS BRIDGE LENGTH	Y
(29) AVERAGE DAILY TRAFFIC 16000	(19) BYPASS DETOUR LENGTH 0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	14
(109) AVERAGE DAILY TRUCK TRAFFIC 1		(100) STRAHNET HIGHWAY DESIGNATION	0
		(101) PARALLEL STRUCTURE DESIGNATION	N
		(102) DIRECTION OF TRAFFIC	2
		(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
GEOMETRIC DATA		NAVIGATION DATA	
(48) LENGTH OF MAX SPAN (ft.) 82	(49) STRUCTURE LENGTH (ft.) 546	(38) NAVIGATION CONTROL	N
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 4 RIGHT 4		(111) PIER OR ABUTMENT PROTECTION	5
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	49.9	(39) NAV VERT CLEARANCE (ft.)	0
(52) DECK WIDTH, OUT-TO-OUT (ft.)	60	(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
(32) APPROACH ROADWAY WIDTH (ft.)	49.9	(40) NAV HORIZONTAL CLEARANCE (ft.)	0
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 0		
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99		
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	58.1		
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99		
(54) VERTICAL UNDER CLEARANCE (ft.)	H 14.30		
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H 12.7		
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0		
PROPOSED IMPROVEMENTS			
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY		
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0		
(94) BRIDGE IMPROVEMENT COST (\$)	0		
(95) ROADWAY IMPROVEMENT COST (\$)	0		
(96) TOTAL PROJECT COST	0		
(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(114) FUTURE ADT 20078	(115) YEAR OF FUTURE ADT 2028		

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### National Bridge Inventory

#### UNDER RECORD 2

##### IDENTIFICATION

(1) STATE CODE	056 - Arkansas	(7) FACILITY CARRIED	US 412-09- LM 0.06
(3) COUNTY CODE	055	(8) STRUCTURE NUMBER	06087
(4) PLACE CODE	50840	(9) LOCATION	.95 MI E Jct US 49
(5) INV. ROUTE (ON/UNDER)	2 5 1 64450 0	(11) MILEPOINT	0.200 (12) BASE HIGHWAY NETWORK 0
(6) FEATURES INTERSECTED	2ND ST & SLSW RR	(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00
		(16) LATITUDE	36.05258333333333 (17) LONGITUDE -90.4876

##### STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE, MAIN A) KIND OF MATERIAL/DESIGN: 3 - Steel  
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder

##### AGE OF SERVICE

(19) BYPASS DETOUR LENGTH	1	(30) YEAR OF AVERAGE DAILY TRAFFIC	1990
(27) YEAR BUILT	1984	(42) TYPE OF SERVICE	ON 5 UNDER 4
(28) LANES	ON 02 UNDER 04	(109) AVERAGE DAILY TRUCK TRAFFIC	1
(29) AVERAGE DAILY TRAFFIC	5890		

##### GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	15.3	(48) LENGTH OF MAXIMUM SPAN	82	(49) STRUCTURE LENGTH	546
(47) TOTAL HORIZONTAL CLEARANCE	54.1				

##### CLASSIFICATION

(20) TOLL	3	(102) DIRECTION OF TRAFFIC	2
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	16	(103) TEMP STRUCTURE	
(100) STRAHNET HIGHWAY DESIGNATION	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(101) PARALLEL STRUCTURE DESIGNATION	N	(110) DESIGNATED NATIONAL NETWORK	1

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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.	32738	sq. ft.	28130	4608	0	0
1130 - Cracking (RC and Other)		4608			4608		
<b>107 - Steel Open Girder/Beam</b>	1- Ben.	4344	ft.	4344			
<b>205 - Reinforced Concrete Column</b>	1- Ben.	24	each	24			
<b>215 - Reinforced Concrete Abutment</b>	1- Ben.	120	ft.	120			
<b>234 - Reinforced Concrete Pier Cap</b>	1- Ben.	538	ft.	535	3	0	0
1090 - Exposed Rebar		3			3		
<b>302 - Compression Joint Seal</b>	1- Ben.	506	ft.	56	350	0	100
2330 - Seal Damage		450			350		100
<b>311 - Movable Bearing</b>	1- Ben.	72	each	0	72	0	0
1000 - Corrosion		72			72		
<b>313 - Fixed Bearing</b>	1- Ben.	72	each	0	72	0	0
1000 - Corrosion		72			72		
<b>333 - Other Bridge Railing</b>	1- Ben.	1091	ft.	1091			



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## Bridge Inspection Report

### Pictures



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## Bridge Inspection Report

### Maintenance Needs

**Date Reported:** 7/31/2012 12:00:00 AM

**Priority:** D - Routine

**Work Code:**

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**Deficiency Description:**

Approach Roadway  
Minor roadway settlement on both bridge ends 1 in. typical.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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**Date Reported:** 7/31/2012 12:00:00 AM

**Priority:** C - Important

**Work Code:**

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**Deficiency Description:**

Bents 2 and 5  
Seals have fallen out.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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**Date Reported:** 7/31/2012 12:00:00 AM

**Priority:** D - Routine

**Work Code:**

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**Deficiency Description:**

Embankment Retaining Wall  
Rt. and Lt. end Abutment 1 and 10 have cracked, possible due to retaining wall settlement up to 1 in.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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### Bridge Inspection Report

#### Maintenance Needs

**Date Reported:** 7/31/2012 12:00:00 AM

**Priority:** D - Routine

**Work Code:**

---

**Deficiency Description:**

Bents 1,3,4,6,8,9 & 10 seals are split, torn and/or have adhesion failures.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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**Date Reported:** 7/31/2012 12:00:00 AM

**Priority:** D - Routine

**Work Code:**

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**Deficiency Description:**

Steel girders

Majority of girders have 20% paint deterioration and surface rust forming on them.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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**Date Reported:** 7/31/2012 12:00:00 AM

**Priority:** D - Routine

**Work Code:**

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**Deficiency Description:**

Steel Bearings

Rusted with pitting and some packed rust between masonry plate and bearing plate.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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### Bridge Inspection Report

#### Maintenance Needs

**Date Reported:** 7/10/2014 12:00:00 AM

**Priority:** D - Routine

**Work Code:**

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**Deficiency Description:**

Dirt and debris buildup on top of Bent 1 & 10 caps.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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**Date Reported:** 7/10/2014 12:00:00 AM

**Priority:** D - Routine

**Work Code:**

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**Deficiency Description:**

Bent 3 cap Span 2 side has 2 small spalled areas ( 6 in. diameter ) with exposed rebar, due to lack of coverage as built condition.

Bent 2 cap Span 2 side has 3 small spalled areas ( 6 in. diameter ) with exposed rebar, due to lack of coverage as built condition.

Bent 5 cap Span 4 side has 1 small spalled areas ( 6 in. diameter ) with exposed rebar, due to lack of coverage as built condition.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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#### Maintenance Needs

**Date Reported:** 7/10/2014 12:00:00 AM

**Priority:** D - Routine

**Work Code:**

---

**Deficiency Description:**

Small trees and brush growing under bridge spans 3 & 4.

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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