

# Bridge Inspection Report

**02840**  
**SH 1-01 LM 15.45**  
**over**  
**Amos Bayou**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

Inspector:

Structure Number: 02840

Inspection Date:

Facility Carried: SH 1-01 LM 15.45

### Bridge Inspection Report

### Location Map



Latitude: 33.81078

Longitude: -91.26599

Inspector:

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## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	01/31/2019
(8) STRUCTURE NUMBER	02840	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 1 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	02 (3) COUNTY CODE 041	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Amos Bayou	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 1-01 LM 15.45		
(9) LOCATION	1.0 Mi N SH 138-Kelso		
(11) MILEPOINT 15.450	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 33.81078	(17) LONGITUDE -91.26599		
(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: 1 - Concrete		(59) SUPERSTRUCTURE	6 (60) SUBSTRUCTURE 5
B) TYPE OF DESIGN/CONSTR: 22 - Channel Beam		(61) CHANNEL & CHANNEL PROTECTION	7 (62) CULVERT N
(44) STRUCTURE TYPE, APPROACH SPANS			
A) KIND OF MATERIAL/DESIGN: 0 - Other			
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN 3	(46) NUMBER OF APPROACH 0		
(107) DECK STRUCTURE TYPE 2	(108A) WEARING SURFACE 6		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1952	(106) YEAR RECONSTRUCTED 0000	(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	60
(29) AVERAGE DAILY TRAFFIC 620	(19) BYPASS DETOUR LENGTH 31	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	36
(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.) 19	(49) STRUCTURE LENGTH (ft.) 57	(67) STRUCTURAL EVALUATION	5
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0.5 RIGHT 0.5		(68) DECK GEOMETRY	4
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	23.0	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	24.6	(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.)	29.9	(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 0	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99	36A) BRIDGE RAILINGS:	0
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	24.3	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	66.8 STATUS 0
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED 35	(75B) WORK DONE BY 1	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	57.0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	07
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	69	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2001	(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 565	(115) YEAR OF FUTURE ADT 2028	(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	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>16 - Reinforced Concrete Top Flange</b>	1- Ben.	1402	sq. ft.	1396	6	0	0
	Deck 24.6' wide x 57' long. Wearing surface: Large cracks at span/unit joints - edges (@ gutterlines & joints) are deteriorating and becoming brittle. Soffit: Spans 1-3 Units 1 & 7 have spalls with exposed rebar bottom of deck of units that have been patched (possible as-built/drains?) - CS2 patch 6 sqft total.						
1080 - Delamination/Spall/Patched Area		6		0	6	0	0
510 - Wearing Surfaces		1254	sq. ft.	854	0	400	0
3220 - Crack (Wearing Surface)		400		0	0	400	0
<b>110 - Reinforced Concrete Open Girder/Beam</b>	1- Ben.	399	ft.	371	0	28	0
	Girders: 7 precast units per span / Spans 1-3 (19' per span = 57' total). Units are bolted transversely and longitudinally - no noted missing or loose bolts.  Span 2 Unit 1: Spalling with exposed rebar (section loss), delamination, and cracking on entire right leg - CS3 exposed rebar 8', CS3 delamination 11'. Span 3 Unit 3: Spalling with exposed rebar (section loss) on right leg - half of leg near Bent 3 - CS3 exposed rebar 9'. Remaining units have some scattered longitudinal cracking/beginning to delaminate along bottom of legs.						
1080 - Delamination/Spall/Patched Area		11		0	0	11	0
1090 - Exposed Rebar		17		0	0	17	0
<b>215 - Reinforced Concrete Abutment</b>	1- Ben.	68	ft.	66	2	0	0
	Abutments: 34' each / Bents 1 & 4. Bent 4 has small contact spalls.						
1080 - Delamination/Spall/Patched Area		2		0	2	0	0
<b>228 - Timber Pile</b>	1- Ben.	10	each	1	0	9	0
	Piling: 5 per bent / Bents 2 & 3.  Bent 2 Pile 1: Moderate-sized checking with some moderate surface decay along waterline - CS3 decay. Bent 2 Pile 2: Moderate-sized checking with moderate decay (hole rotten on back side near waterline) - CS3 decay.  Bent 3 Pile 3: Large-sized checking with moderate decay (hole rotten on back side near waterline) - CS3 decay. *Bent 3 Pile 5: Decay in new spliced section with heavy checking - CS3 decay.  Remaining pile (Bent 2 Piles 4 & 5 and Bent 3 Piles 1, 2, 4 & *5) have all been repaired/replaced with new sections of pile being spliced in. CS3 connection (due to no reinforcing/stabilizing at splice) x 5.						

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1020 - Connection		5		0	0	5	0
1140 - Decay/Section Loss		4		0	0	4	0
<b>234 - Reinforced Concrete Pier Cap</b>	1- Ben.	48	ft.	48	0	0	0
	Caps: 24' each / Bents 2 & 3. Some staining.						
<b>330 - Metal Bridge Railing</b>	1- Ben.	114	ft.	114	0	0	0
	Railing: 57' each side. Coating: 2.5 square feet per linear feet of railing. Metal railing on concrete post.  Railing has some very light freckled rust, with majority of primer wearing off.						
515 - Steel Protective Coating		0285	sq. ft.	0	143	142	0
3410 - Chalking (Steel Protective Coatings)		214		0	143	71	0
3440 - Effectiveness (Steel Protective Coatings)		71		0	0	71	0

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**Bridge Inspection Report**

**Maintenance Needs**

**Date Reported:** 2/1/2011 12:00:00 AM

**Priority:** D - Routine

**Work Code:** N/A

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**Deficiency Description:**

Bent 3 Pile 3: Large-sized checking with moderate decay (hole rotten on back side near waterline).

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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### Bridge Inspection Report

## Maintenance Needs

Date Reported: 1/8/2015 12:00:00 AM

Priority: D - Routine

Work Code: N/A

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### Deficiency Description:

Bent 2 Pile 1: Moderate-sized checking with some moderate surface decay along waterline.

Bent 2 Pile 2: Moderate-sized checking with moderate decay (hole rotten on back side near waterline).

### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Monitor



PHOTO 1      Description      Bent 2 - Pile 1 & 2: Decay