

Bridge Inspection Report

A3879
I 40-SEC 51, WB LN
over
SFC 512



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: A3879

Inspection Date:

Facility Carried: I 40-SEC 51, WB LN

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	02/28/2017
(8) STRUCTURE NUMBER	A3879	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 1 1 40 4	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	01 (3) COUNTY CODE 123	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	SFC 512	C. OTHER SPECIAL	Y 24 02/01/2016
(7) FACILITY CARRIED	I 40-SEC 51, WB LN		
(9) LOCATION	1.7 MI NE JCT SH 75		
(11) MILEPOINT 257.940	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000040510 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.128349	(17) LONGITUDE -90.520622		
(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	6 (60) SUBSTRUCTURE 7
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(61) CHANNEL & CHANNEL PROTECTION	N (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 1	(108A) WEARING SURFACE 1		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1965	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	6
(42) TYPE OF SERVICE ON 1 UNDER 1		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 02		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 14000	(19) BYPASS DETOUR LENGTH 1	(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 56		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 37	(49) STRUCTURE LENGTH (ft.) 113	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0.7 RIGHT 0.7		(68) DECK GEOMETRY	6
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 38.7		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	4
(52) DECK WIDTH, OUT-TO-OUT (ft.) 42.2		(71) WATERWAY ADEQUACY	N
(32) APPROACH ROADWAY WIDTH (ft.) 38.1		(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:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.) 40.0		36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.) H 14.92		36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) H 6.4		(113) SCOUR CRITICAL BRIDGES	N
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		SUFFICIENCY RATING	0 STATUS 94.7
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 0		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	01
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	1
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	L
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	1
(114) FUTURE ADT 19000	(115) YEAR OF FUTURE ADT 2034	(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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National Bridge Inventory

UNDER RECORD 2

IDENTIFICATION

(1) STATE CODE	056 - Arkansas	(7) FACILITY CARRIED	I 40-SEC 51, WB LN
(3) COUNTY CODE	123	(8) STRUCTURE NUMBER	A3879
(4) PLACE CODE	00000	(9) LOCATION	1.7 MI NE JCT SH 75
(5) INV. ROUTE (ON/UNDER)	2 4 1 50 0	(11) MILEPOINT	0.060 (12) BASE HIGHWAY NETWORK 0
(6) FEATURES INTERSECTED	SFC 512	(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00
		(16) LATITUDE	35. (17) LONGITUDE -90.5216666666667 1283333333333

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	1983
(27) YEAR BUILT	1965	(42) TYPE OF SERVICE	ON 1 UNDER 1
(28) LANES	ON 02 UNDER 02	(109) AVERAGE DAILY TRUCK TRAFFIC	52
(29) AVERAGE DAILY TRAFFIC	140		

GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	15.1	(48) LENGTH OF MAXIMUM SPAN	37 (49) STRUCTURE LENGTH 113
(47) TOTAL HORIZONTAL CLEARANCE	34.4		

CLASSIFICATION

(20) TOLL	3	(102) DIRECTION OF TRAFFIC	2
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	09	(103) TEMP STRUCTURE	
(100) STRAHNET HIGHWAY DESIGNATION	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(101) PARALLEL STRUCTURE DESIGNATION	L	(110) DESIGNATED NATIONAL NETWORK	0

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Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	4527	sq. ft.	2207	2298	22	0
<p>FIRST AND LAST SPAN HAS A SMALL TRANSITION OF ASPHALT.</p> <p>SPAN #1 LEFT LANE SMALL SPALLS AT JOINT.</p> <p>ALL SPANS HAVE LONGITUDINAL AND TRANSVERSE CRACKS.</p> <p>JOINT AT ABUTMENT #2 ASPHALT HAS RAVELED</p>							
1080 - Delamination/Spall/Patched Area		34			34		
1090 - Exposed Rebar		22				22	
1130 - Cracking (RC and Other)		2264			2264		
107 - Steel Open Girder/Beam	1- Ben.	777	ft.	509	268	0	0
<p>COROSION HAS STARTED ON GIRDER END AND ON TOP OF BOTTOM FLANGES OF OUTSIDE GIRDERS.</p> <p>SPAN #3 GIRDER #5 AT BENT #3 GIRDER IS FLOATING.</p>							
1000 - Corrosion		268			268		
515 - Steel Protective Coating		3885	sq. ft.	3744	0	141	0
3440 - Effectiveness (Steel Protective Coatings)		141				141	
205 - Reinforced Concrete Column	1- Ben.	4	each	2	2	0	0
<p>BENT #2 COLUMN RIGHT HAS 2' SPALL ON AHEAD FACE. ALSO HAS A FEW SMALL SPALLS WITH EXPOSED REBAR.</p> <p>BENT #3 COLUMN RIGHT HAS SMALL SPALL WITH EXPOSED REBAR</p>							
1090 - Exposed Rebar		2			2		
215 - Reinforced Concrete Abutment	1- Ben.	98	ft.	95	3	0	0
<p>BOTH ABUTMENTS HAVE VERTICAL HAIRLINE CRACKS.</p> <p>ABUTMENT #1 BACKWALL HAS A DIAGONAL CRACK ON RIGHT SIDE</p>							
1130 - Cracking (RC and Other)		3			3		
234 - Reinforced Concrete Pier Cap	1- Ben.	81	ft.	67	2	12	0
<p>BENTS #2 & 3 HAVE SMALL SPALLS ON BOTTOM CHORDS WITH EXPOSED REBAR. REBAR CORRODED WITH MINOR SECTION LOSS.</p> <p>BENT #2,3 CAPS HAVE SEVERAL VERTICAL HAIRLINE CRACKS.</p> <p>BENT #2 CAP HAS 2 SMALL DELAMS ON AHEAD FACE</p>							
1080 - Delamination/Spall/Patched Area		2			2		
1090 - Exposed Rebar		12				12	
305 - Assembly Joint without Seal	1- Ben.	154	ft.	154			

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Element Inspection

515 - Steel Protective Coating		462	sq. ft.	0	0	0	462
3440 - Effectiveness (Steel Protective Coatings)		462					462
311 - Movable Bearing	1- Ben.	21	each	21	0	0	0
515 - Steel Protective Coating		42	sq. ft.	42			
313 - Fixed Bearing	1- Ben.	21	each	21	0	0	0
515 - Steel Protective Coating		42	sq. ft.	42			
321 - Reinforced Concrete Approach Slab	1- Ben.	1680	sq. ft.	1680	0	0	0
SLABS ARE COVERED IN ASPHALT							
521 - Concrete Protective Coating		1680	sq. ft.	0	560	560	560
3540 - Effectiveness (Concrete Protective Coatings)		1680			560	560	560
331 - Reinforced Concrete Bridge Railing	1- Ben.	226	ft.	226	0	0	0
CONCRETE PORTION OF BRIDGE RAIL HAS HAIRLINE VERTICAL CRACKS ON BOTH SIDES							
333 - Other Bridge Railing	1- Ben.	226	ft.	226			