

Bridge Inspection Report

B3876
I-40, EB LNS
over
LITTLE BLEVINS BAYOU



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: B3876

Inspection Date:

Facility Carried: I-40, EB LNS

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	04/26/2016
(8) STRUCTURE NUMBER	B3876	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 1 1 40 2	(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	LITTLE BLEVINS BAYOU	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	I-40, EB LNS		
(9) LOCATION	0.93 MI W OF JCT SH 75		
(11) MILEPOINT 255.310	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE 0000040510	(13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.11314	(17) LONGITUDE -90.56329		
(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: 1 - Concrete		(59) SUPERSTRUCTURE	5
B) TYPE OF DESIGN/CONSTR: 01 - Slab		(60) SUBSTRUCTURE	6
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	8
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN 5	(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 5		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 00		(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.) 30	(49) STRUCTURE LENGTH (ft.) 150	(67) STRUCTURAL EVALUATION	5
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	6
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 38.1		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 40.7		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 38.1		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 45	(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.) 39.7		36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.) N 0		36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) N 99.9		(113) SCOUR CRITICAL BRIDGES	5
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		SUFFICIENCY RATING	0
		STATUS	84.5
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	R
(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	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.)	0000

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Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
38 - Reinforced Concrete Slab	1- Ben.	6105	sq. ft.	0	4738	1367	0
	ALL SPANS HAVE LARGE AREAS OF HEAVY SCALING AND LARGE REPAIRS. NUMEROUS UNSEALED AND EPOXY SEALED TRANSVERSE CRACKS ALL SPANS CRACKS SPACE 5'+- SPAN #2 RIGHT LANE HAS A 2 SF SPALL WITH EXPOSED REBAR. SOFFIT ALL SPANS HAVE SEVERAL OPEN HAIRLINE LONGITUDINAL CRACKS WITH AREA OF LIGHT EFFLORESCENCE AND AREAS OF RUST STAIN. SPAN #1 LEFT AND RIGHT EDGE AT DRAIN AREA IS SPALLED WITH EXPOSED REBAR. DELAMINATIONS AROUND DECK DRAINS.						
1080 - Delamination/Spall/Patched Area		119			110	9	
1090 - Exposed Rebar		8				8	
1130 - Cracking (RC and Other)		2571			1221	1350	
1190 - Abrasion/Wear (PSC/RC)		3407			3407		
215 - Reinforced Concrete Abutment	1- Ben.	132	ft.	132			
227 - Reinforced Concrete Pile	1- Ben.	28	each	28			
234 - Reinforced Concrete Pier Cap	1- Ben.	244	ft.	220	20	4	0
	BENTS #2,3,4,5 HAVE SPALLS AT TOP AT KEYWAYS. BENT #4 HAS SEVERAL SPALLS ON BOTTOM CHORD WITH EXPOSED CAGE REBAR. BENT #2 BOTTOM HAS 1 PIECE OF REBAR EXPOSED ON EACH SIDE OF PILE #2. BENT #5 HAS 4' CRACK AND DELAMINATION ON BOTTOM CHORD BETWEEN PILES #6&7						
1080 - Delamination/Spall/Patched Area		4				4	
1090 - Exposed Rebar		20			20		
321 - Reinforced Concrete Approach Slab	1- Ben.	1680	sq. ft.	1680			
	ABUTMENT #1 APPROACH SLAB HAS 8 SF OF SPALLS IN THE ASPHALT OVERLAY. REMAINING OVERLAY HAS SETTLED AND IS ROUGH.						
521 - Concrete Protective Coating		1680	sq. ft.	0	840	840	0
3540 - Effectiveness (Concrete Protective Coatings)		1680			840	840	
331 - Reinforced Concrete Bridge Railing	1- Ben.	300	ft.	295	0	5	0
	BENT #4 RIGHT RAIL BOTTOM CRACKED AND BROKEN. SEVERAL BENTS ON OUTSIDE AT JOINTS HAVE SPALLS						
1080 - Delamination/Spall/Patched Area		5				5	