

Inspector:

Structure Number: B3902

Inspection Date:

Facility Carried: I-40, EB LNS

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	04/21/2016
(8) STRUCTURE NUMBER	B3902	(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	DITCH NO. 22	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	I-40, EB LNS		
(9) LOCATION	0.37 MI EAST OF SH 149		
(11) MILEPOINT 260.280	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE 0000040510	(13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.13274	(17) LONGITUDE -90.48052		
(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	(60) SUBSTRUCTURE 7
B) TYPE OF DESIGN/CONSTR: 01 - Slab		(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 1	(108A) WEARING SURFACE 6		
(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		(83) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 03 UNDER 00		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 15500	(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.) 25	(49) STRUCTURE LENGTH (ft.) 75	(87) 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.) 47.2		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 50.4		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 38.1		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 1	(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.) 48.6		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 0		(113) SCOUR CRITICAL BRIDGES	5
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		SUFFICIENCY RATING	0
		STATUS	82.3
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.)	0

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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.	3780	sq. ft.	2246	0	1534	0
	Asphalt repairs are settling one pothole in span #3 SOFFIT ALL SPANS HAVE OPEN HAIRLINE LONGITUDINAL CRACKS WITH MODERATE EFFLORESCENCE AND AREAS OF RUST STAIN. ALL SPANS HAVE AREAS OF LARGE DELAMINATIONS, WITH SPALLS AT SONA-VOID DRAINS WITH EXPOSED REBAR . REBAR HAS MINOR SECTION LOSS. SPANS #1,2 IN CENTER OF SPAN HAS A LARGE DELAMINATION.						
1080 - Delamination/Spall/Patched Area		22				22	
1090 - Exposed Rebar		12				12	
1120 - Efflorescence/Rust Staining		1500				1500	
510 - Wearing Surfaces		3540	sq. ft.	3074	0	466	0
3210 - Delamination/Spall/Patched Area/Pothole (Wearing Surfaces)		1				1	
3220 - Crack (Wearing Surface)		340				340	
3230 - Effectiveness (Wearing Surface)		125				125	
215 - Reinforced Concrete Abutment	1- Ben.	110	ft.	110			
227 - Reinforced Concrete Pile	1- Ben.	16	each	16			
234 - Reinforced Concrete Pier Cap	1- Ben.	102	ft.	98	0	4	0
	Bent #2 cap has a 2' delamination over pile #1 on ahead face and an one sq. ft. spall on back face over pile #7. Bent #3 back face one sq. ft. spall over pile #3						
1080 - Delamination/Spall/Patched Area		2				2	
1090 - Exposed Rebar		2				2	
321 - Reinforced Concrete Approach Slab	1- Ben.	2520	sq. ft.	2492	0	28	0
	ABUTMENT #1 HAS SETTLEMENT AT BRIDGE END INCREASING IMPACT LOADING.APPROACH SLABS ARE COVERED WITH ACHM OVERLAY.						
4000 - Settlement		28				28	
521 - Concrete Protective Coating		2520	sq. ft.	0	2520	0	0
3540 - Effectiveness (Concrete Protective Coatings)		2520			2520		
331 - Reinforced Concrete Bridge Railing	1- Ben.	150	ft.	149	0	1	0
	ABUTMENT #1 RIGHT END POST HAS COLLISION DAMAGE CRACKED AND BROKEN.						
7000 - Damage		1				1	
333 - Other Bridge Railing	1- Ben.	150	ft.	150			