

# Bridge Inspection Report

**B3233**  
**I-40 EB log 146.46**  
**over**  
**NEWTON CREEK**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

Inspector:

Structure Number: B3233

Inspection Date:

Facility Carried: I-40 EB log 146.46

## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	06/25/2018
(8) STRUCTURE NUMBER	B3233	(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	06 (3) COUNTY CODE 119	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	NEWTON CREEK	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	I-40 EB log 146.46		
(9) LOCATION	1 MI NW OF I-430/I-2		
(11) MILEPOINT 146.460	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000040330 (13B) SUBROUTE NUMBER 01		
(16) LATITUDE 34.83555	(17) LONGITUDE -92.34814		
(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 8
B) TYPE OF DESIGN/CONSTR: 04 - Tee Beam		(61) CHANNEL & CHANNEL PROTECTION	8 (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 1		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1963	(106) YEAR RECONSTRUCTED 1998	(31) DESIGN LOAD	5
(42) TYPE OF SERVICE ON 1 UNDER 5		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 03 UNDER 00		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 74000	(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 20		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 30	(49) STRUCTURE LENGTH (ft.) 90	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	6
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 56.1		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 58.8		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 56.1		(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.) 42.0		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	8
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		SUFFICIENCY RATING	91.1 STATUS 0
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	11
(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 44500	(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
16 - Reinforced Concrete Top Flange	1- Ben.	5295	sq. ft.	2601	1879	815	0
	6/25/2018-KRM & RLS - All spans have large unsealed cracks and cracks with efflorescence in the soffit.						
1120 - Efflorescence/Rust Staining		271			271		
1130 - Cracking (RC and Other)		1343			528	815	
1190 - Abrasion/Wear (PSC/RC)		1080			1080		
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	540	ft.	540			
	6/25/2018-KRM & RLS - No notable deficiencies at this inspection.						
205 - Reinforced Concrete Column	1- Ben.	8	each	0	8	0	0
	6/25/2018-KRM & RLS - Bent 2 column 4, delam. Minor abrasion on all columns.						
1080 - Delamination/Spall/Patched Area		1			1		
1190 - Abrasion/Wear (PSC/RC)		7			7		
210 - Reinforced Concrete Pier Wall	1- Ben.	50	ft.	45	3	2	0
	6/25/2018-KRM & RLS - Bent 2 backside has a spall and large crack on the ahead side. Bent 3 has a spall with exposed rebar.						
1080 - Delamination/Spall/Patched Area		3			3		
1090 - Exposed Rebar		1				1	
1130 - Cracking (RC and Other)		1				1	
234 - Reinforced Concrete Pier Cap	1- Ben.	251	ft.	245	6	0	0
	6/25/2018-KRM & RLS - Bent 2 backside has cracks with efflorescence.						
1120 - Efflorescence/Rust Staining		6			6		
301 - Pourable Joint Seal	1- Ben.	236	ft.	0	0	236	0
	6/25/2018-KRM & RLS- All of the joint material has loss of adhesion.						
2320 - Seal Adhesion		236				236	
321 - Reinforced Concrete Approach Slab	1- Ben.	2628	sq. ft.	2331	179	118	0
	6/25/2018-KRM & RLS - 6' patch in the approach slab at the beginning of the bridge. Large unsealed cracks in both approach slabs. The approach slab at the end of the bridge has spalls in the right lane and potholes in the roadway at the end of the slab in the middle lane.						
1080 - Delamination/Spall/Patched Area		6			6		
1130 - Cracking (RC and Other)		291			173	118	
331 - Reinforced Concrete Bridge Railing	1- Ben.	180	ft.	178	2	0	0
	6/25/2018-KRM & RLS - Cracks with efflorescence in right rail						
1120 - Efflorescence/Rust Staining		2			2		