

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	CONDITION	
(9) LOCATION	1 MI NW OF I-430/I-2	(58) DECK	6
(11) MILEPOINT 146.460 (12) BASE HIGHWAY NETWORK 1		(59) SUPERSTRUCTURE	6 (60) SUBSTRUCTURE 8
(13A) LRS INVENTORY ROUTE 0000040330 (13B) SUBROUTE NUMBER 01		(61) CHANNEL & CHANNEL PROTECTION	8 (62) CULVERT N
(16) LATITUDE 34.83555 (17) LONGITUDE -92.34814		LOAD RATING AND POSTING	
(98A) BORDER BRIDGE CODE		(31) DESIGN LOAD	5
PERCENT RESPONSIBILITY (99) BORDER BRIDGE STRUCT		(63) METHOD USED TO DETERMINE OPERATING RATING	1
STRUCTURE TYPE AND MATERIAL		(64) OPERATING RATING	60.0
(43) STRUCTURE TYPE, MAIN		(65) METHOD USED TO DETERMINE INVENTORY RATING	1
A) KIND OF MATERIAL/DESIGN: 1 - Concrete		(66) INVENTORY RATING	36.0
B) TYPE OF DESIGN/CONSTR: 04 - Tee Beam		(70) BRIDGE POSTING	5
(44) STRUCTURE TYPE, APPROACH SPANS		(41) STRUCTURE OPEN/POSTED/CLOSED	A
A) KIND OF MATERIAL/DESIGN: 0 - Other		APPRAISAL	
B) TYPE OF DESIGN/CONSTR: 00 - Other		(67) STRUCTURAL EVALUATION	6
(45) NUMBER OF SPANS IN MAIN 3 (46) NUMBER OF APPROACH 0		(68) DECK GEOMETRY	6
(107) DECK STRUCTURE TYPE 1 (108A) WEARING SURFACE 1		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(108B) DECK MEMBRANE 0 (108C) DECK PROTECTION 1		(71) WATERWAY ADEQUACY	8
AGE OF SERVICE		(72) APPROACH ROADWAY ALIGNMENT	8
(27) YEAR BUILT 1963 (106) YEAR RECONSTRUCTED 1998		(36) TRAFFIC SAFETY FEATURE	
(42) TYPE OF SERVICE ON 1 UNDER 5		36A) BRIDGE RAILINGS:	1
(28) LANES ON 03 UNDER 00		36B) TRANSITIONS:	1
(29) AVERAGE DAILY TRAFFIC 74000 (19) BYPASS DETOUR LENGTH 1		36C) APPROACH GUARDRAIL:	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		36D) APPROACH GUARDRAIL ENDS:	1
(109) AVERAGE DAILY TRUCK TRAFFIC 20		(113) SCOUR CRITICAL BRIDGES	8
GEOMETRIC DATA		SUFFICIENCY RATING	91.1 STATUS 0
(48) LENGTH OF MAX SPAN (ft.) 30 (49) STRUCTURE LENGTH (ft.) 90		CLASSIFICATION	
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(112) NBIS BRIDGE LENGTH	Y
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 56.1		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(52) DECK WIDTH, OUT-TO-OUT (ft.) 58.8		(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	11
(32) APPROACH ROADWAY WIDTH (ft.) 56.1		(100) STRAHNET HIGHWAY DESIGNATION	1
(33) BRIDGE MEDIAN 0 (34) SKEW (DEG.) 0		(101) PARALLEL STRUCTURE DESIGNATION	R
(35) STRUCTURE FLARED 0 (10) INV RTE, MIN VERT CLEAR (ft.) 99.99		(102) DIRECTION OF TRAFFIC	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.) 42.0		(103) TEMP STRUCTURE	
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		(105) FEDERAL LANDS HIGHWAYS	0
(54) VERTICAL UNDER CLEARANCE (ft.) N 0		(110) DESIGNATED NATIONAL NETWORK	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) N 99.9		(20) TOLL	3
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		(21) MAINTENANCE RESPONSIBILITY	01
PROPOSED IMPROVEMENTS		(22) OWNER	01
(75A) TYPE OF WORK PROPOSED (75B) WORK DONE BY		(37) HISTORICAL	5
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 0		NAVIGATION DATA	
(94) BRIDGE IMPROVEMENT COST (\$) 0		(38) NAVIGATION CONTROL	0
(95) ROADWAY IMPROVEMENT COST (\$) 0		(111) PIER OR ABUTMENT PROTECTION	1
(96) TOTAL PROJECT COST 0		(39) NAV VERT CLEARANCE (ft.)	0
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
(114) FUTURE ADT 44500 (115) YEAR OF FUTURE ADT 2034		(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		