Bridge Inspection Report

A3233

I-40 WB log 146.46
over
NEWTON CREEK

Inspection Date:

Inspected By:

Inspection Type(s):

Inspector: Structure Number: A3233

Inspection Date: Facility Carried: I-40 WB log 146.46

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION

(1) STATE CODE 056 - Arkansas
(8) STRUCTURE NUMBER A3233
(5) INV. ROUTE (ON/UNDER) 1 1 1 40 4
(2) HIGHWAY AGENCY 06 (3) COUNTY CODE 119
(4) PLACE CODE 00000
(6) FEATURES INTERSECTED NEWTON CREEK
(7) FACILITY CARRIED I-40 WB log 146.46
(9) LOCATION 1.0 MI N JCT I-430 & I-40
(11) MILEPOINT 146.460 (12) BASE HIGHWAY NETWORK 1
(13A) LRS INVENTORY ROUTE 0000040330 (13B) SUBROUTE NUMBER 01
(16) LATITUDE 34.83576 (17) LONGITUDE -92.34764
(98A) BORDER BRIDGE CODE
PERCENT RESPONSIBILITY (99) BORDER BRIDGE STRUCT

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE, MAIN
A) KIND OF MATERIAL/DESIGN: 1 - Concrete
B) TYPE OF DESIGN/CONSTR: 04 - Tee Beam
(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

(27) YEAR BUILT 1963 (106) YEAR RECONSTRUCTED 1998
(42) TYPE OF SERVICE ON 1 UNDER 5
(28) LANES ON 03 UNDER 00
(29) AVERAGE DAILY TRAFFIC 81029 (19) BYPASS DETOUR LENGTH 1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014
(109) AVERAGE DAILY TRUCK TRAFFIC 20

GEOMETRIC DATA

(48) LENGTH OF MAX SPAN (ft.) 30 (49) STRUCTURE LENGTH (ft.) 90
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0.0 RIGHT 0.0
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 56.1
(52) DECK WIDTH, OUT-TO-OUT (ft.) 58.8
(32) APPROACH ROADWAY WIDTH (ft.) 56.1
(33) BRIDGE MEDIAN 0 (34) SKEW (DEG.) 0
(35) STRUCTURE FLARED 0 (10) INV RTE, MIN VERT CLEAR (ft.) 99.99
(47) TOTAL HORIZONTAL CLEARANCE (ft.) 56.1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99
(54) VERTICAL UNDER CLEARANCE (ft.) N 0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) N 99.9
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0

PROPOSED IMPROVEMENTS

(75A) TYPE OF WORK PROPOSED (75B) WORK DONE BY
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 0
(94) BRIDGE IMPROVEMENT COST ($) 0
(95) ROADWAY IMPROVEMENT COST ($) 0
(96) TOTAL PROJECT COST 0
(97) YEAR OF IMPROVEMENT COST ESTIMATE
(114) FUTURE ADT 44500 (115) YEAR OF FUTURE ADT 2034

INSPECTIONS

(90) INSPECTION DATE 06/25/2018
(91) DESIGNATED INSPECTION FREQUENCY 24
(92) CRITICAL FEATURE INSPECTION (93) CFI DATE
A. FRACTURE CRITICAL DETAIL N
B. UNDERWATER INSPECTION N
C. OTHER SPECIAL N

CONDITION

(58) DECK 6
(59) SUPERSTRUCTURE 6 (60) SUBSTRUCTURE 8
(61) CHANNEL & CHANNEL PROTECTION 8 (62) CULVERT N

LOAD RATING AND POSTING

(31) DESIGN LOAD 5
(63) METHOD USED TO DETERMINE OPERATING RATING 1
(64) OPERATING RATING 60.0
(65) METHOD USED TO DETERMINE INVENTORY RATING 1
(66) INVENTORY RATING 36.0
(70) BRIDGE POSTING 5
(41) STRUCTURE OPEN/POSTED/CLOSED A

APPRAISAL

(67) STRUCTURAL EVALUATION 6
(68) DECK GEOMETRY 6
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL N
(71) WATERWAY ADEQUACY 8
(72) APPROACH ROADWAY ALIGNMENT 8
(36) TRAFFIC SAFETY FEATURE
36A) BRIDGE RAILINGS: 1
36B) TRANSITIONS: 1
36C) APPROACH GUARDRAIL: 0
36D) APPROACH GUARDRAIL ENDS: 1
(113) SCOUR CRITICAL BRIDGES 8
SUFFICIENCY RATING 90.4 STATUS 0

CLASSIFICATION

(112) NBIS BRIDGE LENGTH Y
(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE 1
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE 11
(100) STRAHNET HIGHWAY DESIGNATION 1
(101) PARALLEL STRUCTURE DESIGNATION L
(102) DIRECTION OF TRAFFIC 1
(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

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.	2544	2084	667	0
	6/25/2018-KRM & RLS - All spans have large unsealed longitudinal and diagonal cracks. All spans have cracks with efflorescence in the soffit.						
1120 - Efflorescence/Rust Staining		125			125		
1130 - Cracking (RC and Other)		1546			879	667	
1190 - Abrasion/Wear (PSC/RC)		1080			1080		
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	540	ft.	540			
	6/25/2018-KRM & RLS - All girders have small flexure cracks but remain in condition state 1.						
205 - Reinforced Concrete Column	1- Ben.	8	each	0	8	0	0
	6/25/2018-KRM & RLS - All columns have abrasion at the waterline.						
1190 - Abrasion/Wear (PSC/RC)		8			8		
210 - Reinforced Concrete Pier Wall	1- Ben.	50	ft.	50			
	6/25/2018-KRM & RLS - No notable deficiencies at this inspection.						
234 - Reinforced Concrete Pier Cap	1- Ben.	251	ft.	238	13	0	0
	6/25/2018-KRM & RLS - Bent 2 backside and ahead side cracks with efflorescence. Bent 3 backside, cracking.						
1120 - Efflorescence/Rust Staining		11			11		
1130 - Cracking (RC and Other)		2			2		
301 - Pourable Joint Seal	1- Ben.	236	ft.	0	0	236	0
	6/25/2018-KRM & RLS - All of the poured joint material has adhesion loss.						
2320 - Seal Adhesion		236				236	
321 - Reinforced Concrete Approach Slab	1- Ben.	2628	sq. ft.	514	1885	229	0
	6/25/2018-KRM & RLS - Approaches have large transverse and diagonal cracks, both approaches have settlement in the right and center lanes,						
1080 - Delamination/Spall/Patched Area		3				3	
1130 - Cracking (RC and Other)		311			85	226	
4000 - Settlement		1800			1800		
331 - Reinforced Concrete Bridge Railing	1- Ben.	180	ft.	174	6	0	0
	6/25/2018-KRM & RLS - Vertical cracks in the bridge railing on the left side.						
1130 - Cracking (RC and Other)		6			6		