

Bridge Inspection Report

**05121
US 165
over
ARK RIVER**



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: 05121

Inspection Date:

Facility Carried: US 165

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	07/14/2015
(8) STRUCTURE NUMBER	05121	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 165 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	02 (3) COUNTY CODE 041	A. FRACTURE CRITICAL DETAIL	Y 24 07/19/2016
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	Y 60 10/25/2013
(6) FEATURES INTERSECTED	ARK RIVER	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 165		
(9) LOCATION	3.5 MI N JCT SH 54		
(11) MILEPOINT 10.230	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000165040 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 33.97506	(17) LONGITUDE -91.38452		
(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: 4 - Steel continuous		(59) SUPERSTRUCTURE	7
B) TYPE OF DESIGN/CONSTR: 03 - Girder and Floorbeam System		(60) SUBSTRUCTURE	7
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	7
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder			
(45) NUMBER OF SPANS IN MAIN 3	(46) NUMBER OF APPROACH 22		
(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 1971	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	5
(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	48.0
(29) AVERAGE DAILY TRAFFIC 1400	(19) BYPASS DETOUR LENGTH 124	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	28.0
(109) AVERAGE DAILY TRUCK TRAFFIC 1		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 377	(49) STRUCTURE LENGTH (ft.) 2899	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	5
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 29.9		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 33		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 44.0		(72) APPROACH ROADWAY ALIGNMENT	7
(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.) 30.8		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	64.2
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	02
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 1616	(115) YEAR OF FUTURE ADT 2028	(103) TEMP STRUCTURE	
		(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	1
		(20) TOLL	3
		(21) MAINTENANCE RESPONSIBILITY	01
		(37) HISTORICAL	5
		NAVIGATION DATA	
		(38) NAVIGATION CONTROL	1
		(111) PIER OR ABUTMENT PROTECTION	5
		(39) NAV VERT CLEARANCE (ft.)	51.8
		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
		(40) NAV HORIZONTAL CLEARANCE (ft.)	299.9

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UNDER RECORD A

IDENTIFICATION

(1) STATE CODE	056 - Arkansas	(7) FACILITY CARRIED	U S 165
(3) COUNTY CODE	041	(8) STRUCTURE NUMBER	05121
(4) PLACE CODE	00000	(9) LOCATION	3.5 MI N JCT SH 54
(5) INV. ROUTE (ON/UNDER)	A 8 0 165 4	(11) MILEPOINT	10.230 (12) BASE HIGHWAY NETWORK 0
(6) FEATURES INTERSECTED	Cty Sts, Ark River	(13A) LRS INVENTORY ROUTE	0000165040 (13B) SUBROUTE NUMBER 00
		(16) LATITUDE	33.975040 (17) LONGITUDE -91.38449

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE, MAIN A) KIND OF MATERIAL/DESIGN: 4 - Steel continuous
 B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder

AGE OF SERVICE

(19) BYPASS DETOUR LENGTH	99	(30) YEAR OF AVERAGE DAILY TRAFFIC	2014
(27) YEAR BUILT	1971	(42) TYPE OF SERVICE	ON 1 UNDER 6
(28) LANES	ON 02 UNDER 04	(109) AVERAGE DAILY TRUCK TRAFFIC	1
(29) AVERAGE DAILY TRAFFIC	1400		

GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	99	(48) LENGTH OF MAXIMUM SPAN	377 (49) STRUCTURE LENGTH 2899
(47) TOTAL HORIZONTAL CLEARANCE	56.8		

CLASSIFICATION

(20) TOLL	3	(102) DIRECTION OF TRAFFIC	2
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02	(103) TEMP STRUCTURE	
(100) STRAHNET HIGHWAY DESIGNATION	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(101) PARALLEL STRUCTURE DESIGNATION	N	(110) DESIGNATED NATIONAL NETWORK	0

UNDER RECORD B

IDENTIFICATION

(1) STATE CODE	056 - Arkansas	(7) FACILITY CARRIED	U S 165
(3) COUNTY CODE	041	(8) STRUCTURE NUMBER	05121
(4) PLACE CODE	00000	(9) LOCATION	3.5 MI N JCT SH 54
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(6) FEATURES INTERSECTED	Cty Strt, ARK River	(13A) LRS INVENTORY ROUTE	0000165040 (13B) SUBROUTE NUMBER 00
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(28) LANES	ON 02 UNDER 04	(109) AVERAGE DAILY TRUCK TRAFFIC	1
(29) AVERAGE DAILY TRAFFIC	1400		

GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	99	(48) LENGTH OF MAXIMUM SPAN	377 (49) STRUCTURE LENGTH 2899
(47) TOTAL HORIZONTAL CLEARANCE	58.3		

CLASSIFICATION

(20) TOLL	3	(102) DIRECTION OF TRAFFIC	2
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02	(103) TEMP STRUCTURE	
(100) STRAHNET HIGHWAY DESIGNATION	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(101) PARALLEL STRUCTURE DESIGNATION	N	(110) DESIGNATED NATIONAL NETWORK	0

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Element Inspection

[illegible]

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Element Inspection

1080 - Delamination/Spall/Patched Area		7			7		
1130 - Cracking (RC and Other)		6			6		
302 - Compression Joint Seal	1- Ben.	210	ft.	150	0	60	0
	Joint seals at abutment 1 and 2 have lost adhesion to the joint armor.						
2320 - Seal Adhesion		60				60	
303 - Assembly Joint with Seal	1- Ben.	71	ft.	71			
	Joint 12A: Ahead side of the finger joint assembly is 15/16" high at centerline, but is flush with the back side plate at both gutter lines. Inspection revealed no distress of the joint assembly or connections. Plates were tightly bonded to the concrete deck with no spalling around plates.						
310 - Elastomeric Bearing	1- Ben.	80	each	75	0	5	0
	Pier 6, G1 thru G4, Pier 22, G4: Pack rust forming between the top of the elastomeric pad and the sole plate.						
1000 - Corrosion		5				5	
311 - Movable Bearing	1- Ben.	16	each	14	0	2	0
	Bent 12: Both bearings are tilted back to their limits.						
2220 - Alignment		2				2	
313 - Fixed Bearing	1- Ben.	20	each	20			
	All bearings have minor corrosion.						
321 - Reinforced Concrete Approach Slab	1- Ben.	2310	sq. ft.	2220	90	0	0
	Transverse cracks across both lanes on both approach.						
1130 - Cracking (RC and Other)		90			90		
330 - Metal Bridge Railing	1- Ben.	5792	ft.	5792			