Bridge Inspection Report

05276

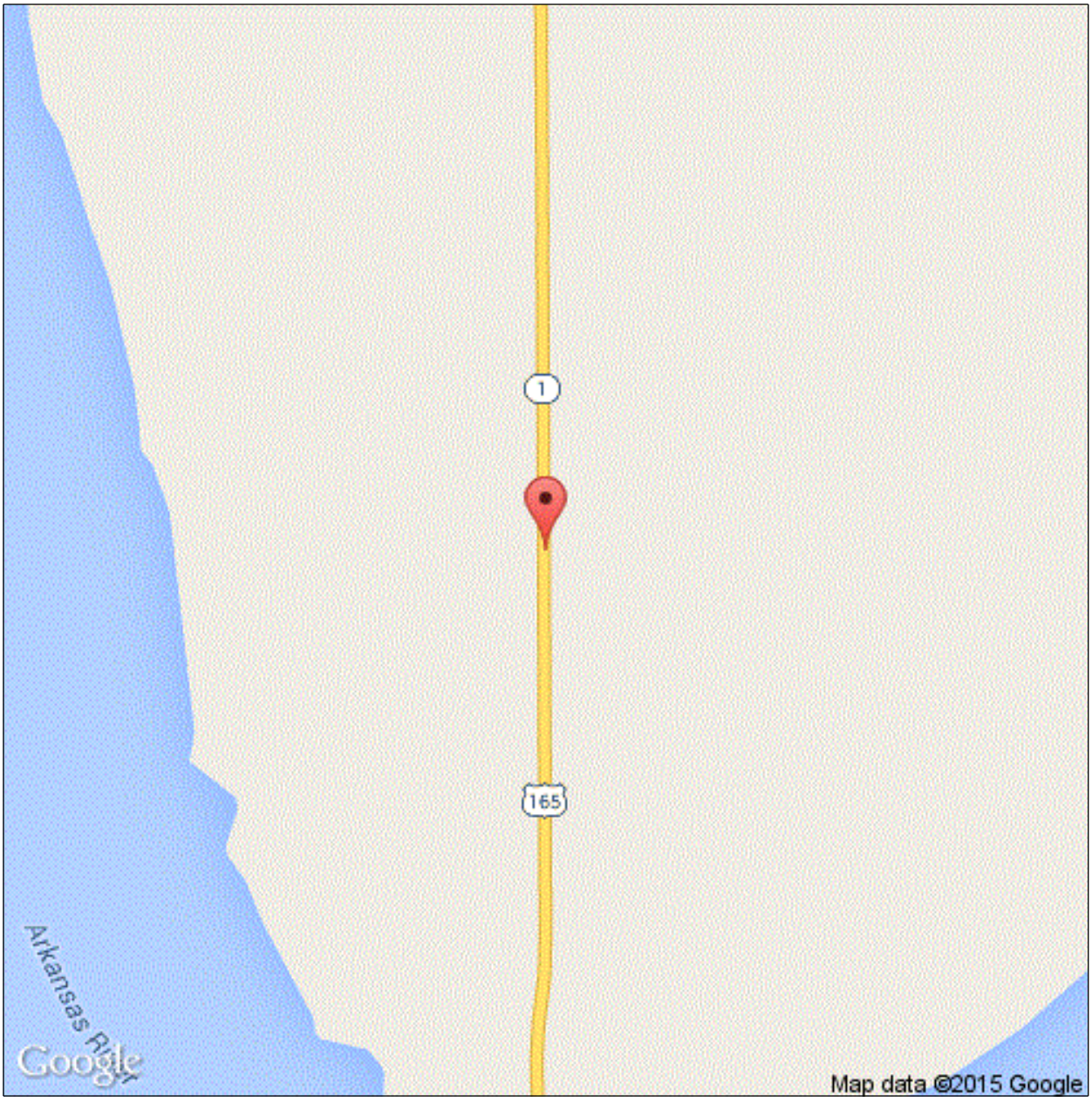
US 165-05 LM 0.64
over
Arkansas River Relief

Inspection Date:

Inspected By:

Inspection Type(s):

Location Map



Latitude: 33.99231

Longitude: -91.38441

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION

(1) STATE CODE 056 - Arkansas
(8) STRUCTURE NUMBER 05276
(5) INV. ROUTE (ON/UNDER) 1 2 1 165 0
(2) HIGHWAY AGENCY 02 (3) COUNTY CODE 001
(4) PLACE CODE 00000
(6) FEATURES INTERSECTED Arkansas River Relief
(7) FACILITY CARRIED US 165-05 LM 0.64
(9) LOCATION 0.64 Mi N AR Riv-Pendletn
(11) MILEPOINT 0.640 (12) BASE HIGHWAY NETWORK 1
(13A) LRS INVENTORY ROUTE 0000165050 (13B) SUBROUTE NUMBER 00
(16) LATITUDE 33.99231 (17) LONGITUDE -91.38441
(98A) BORDER BRIDGE CODE
PERCENT RESPONSIBILITY (99) BORDER BRIDGE STRUCT

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
(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 8 (46) NUMBER OF APPROACH 0
(107) DECK STRUCTURE TYPE 1 (108A) WEARING SURFACE 1
(108B) DECK MEMBRANE 0 (108C) DECK PROTECTION 0

AGE OF SERVICE

(27) YEAR BUILT 1983 (106) YEAR RECONSTRUCTED 0000
(42) TYPE OF SERVICE ON 1 UNDER 9
(28) LANES ON 02 UNDER 00
(29) AVERAGE DAILY TRAFFIC 1600 (19) BYPASS DETOUR LENGTH 124
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014
(109) AVERAGE DAILY TRUCK TRAFFIC 1

GEOMETRIC DATA

(48) LENGTH OF MAX SPAN (ft.) 65 (49) STRUCTURE LENGTH (ft.) 482
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 40.0
(52) DECK WIDTH, OUT-TO-OUT (ft.) 43
(32) APPROACH ROADWAY WIDTH (ft.) 40.0
(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.) 41.3
(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 1703 (115) YEAR OF FUTURE ADT 2028

INSPECTIONS

(90) INSPECTION DATE 08/29/2017
(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 7
(59) SUPERSTRUCTURE 8 (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 8
(68) DECK GEOMETRY 7
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL N
(71) WATERWAY ADEQUACY 8
(72) APPROACH ROADWAY ALIGNMENT 8
(36) TRAFFIC SAFETY FEATURE
36A) BRIDGE RAILINGS: 1
36B) TRANSITIONS: 0
36C) APPROACH GUARDRAIL: 0
36D) APPROACH GUARDRAIL ENDS: 1
(113) SCOUR CRITICAL BRIDGES 5
SUFFICIENCY RATING 0 STATUS 79.1

CLASSIFICATION

(112) NBIS BRIDGE LENGTH Y
(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE 1
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE 02
(100) STRAHNET HIGHWAY DESIGNATION 0
(101) PARALLEL STRUCTURE DESIGNATION N
(102) DIRECTION OF TRAFFIC 2
(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 5
(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
12 - Reinforced Concrete Deck	1- Ben.	20725	sq. ft.	18650	2075	0	0
	Deck: 43' wide x 482' long. A few scattered hairline- to minor-sized transverse cracks. Hairline- to minor-sized longitudinal cracks, mainly in travel lanes along Girders 2-5. Soffit: Efflorescence showing under construction joints on each side of bents (at zero-moment points).						
1130 - Cracking (RC and Other)		2075			2075		
107 - Steel Open Girder/Beam	1- Ben.	2880	ft.	2880			
	Girders: 6 per span / 480' total span. Coating: ? square feet/linear feet of girder.						
515 - Steel Protective Coating		21024	sq. ft.	21024			
215 - Reinforced Concrete Abutment	1- Ben.	106	ft.	106			
	Abutments: 53' each / Bents 1 & 9.						
227 - Reinforced Concrete Pile	1- Ben.	54	each	54			
	Piling: 8 per bent / Bents 2-4 & 6-8; 6 per bent / Bent 5.						
234 - Reinforced Concrete Pier Cap	1- Ben.	285	ft.	285			
	Caps: 41' each / Bents 2-4 & 6-8; 39' each / Bent 5..						
300 - Strip Seal Expansion Joint	1- Ben.	120	ft.	105	15	0	0
	Joints: 40' each / Bents 1, 5, & 9. All joint seals have some minor debris with a couple of small areas of leaking.						
2310 - Leakage		15			15		
310 - Elastomeric Bearing	1- Ben.	60	each	60			
	Bearings: 6 per bent / Bents 1-4, 5 back, 5 ahead, 6-9.						
331 - Reinforced Concrete Bridge Railing	1- Ben.	964	ft.	964			
	Railing: 482' each side.						