

Bridge Inspection Report

02825

US 167-11B LM 0.99

over

West Fork of Big Creek



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

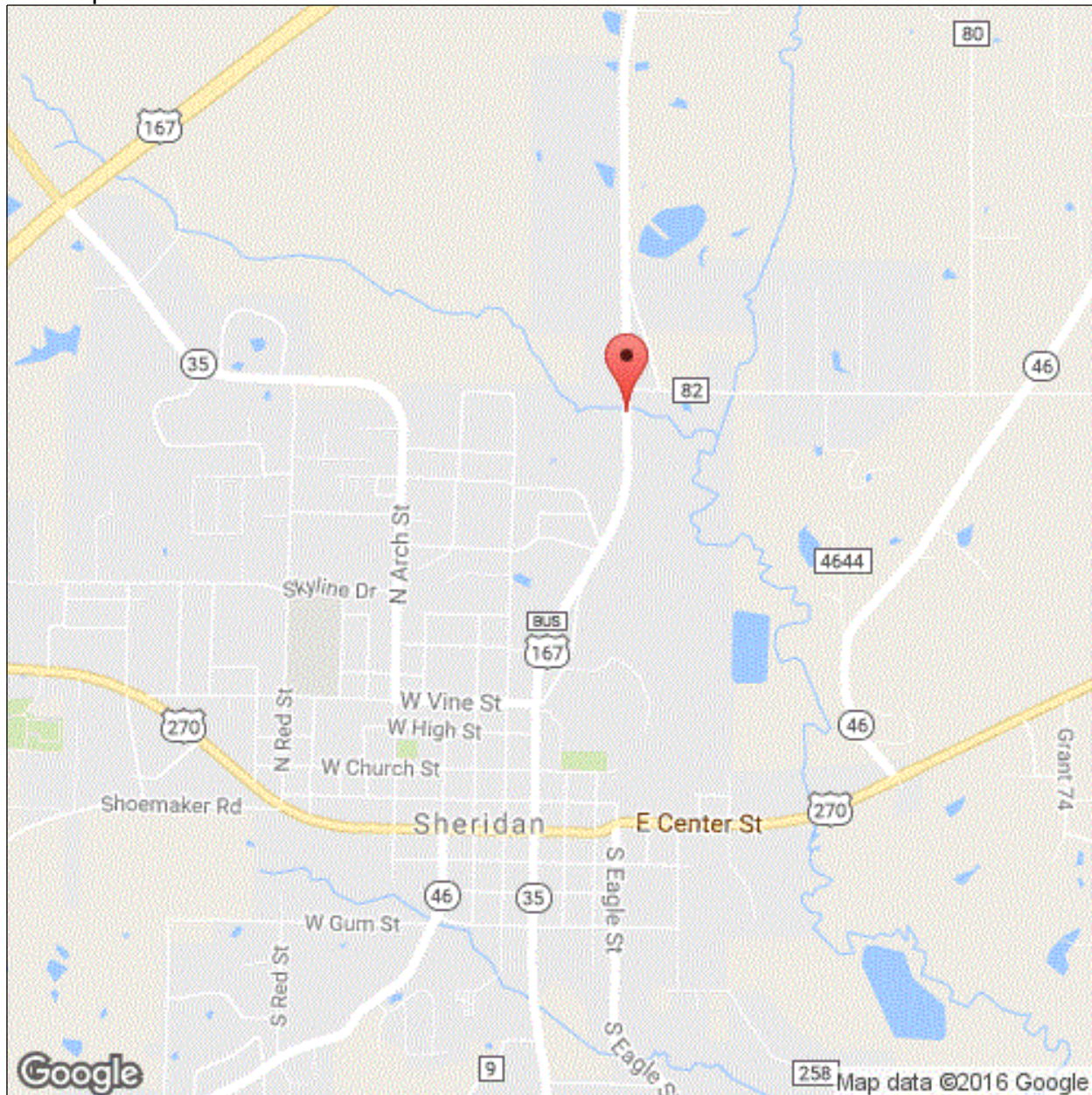
Structure Number: 02825

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Location Map



Latitude: 34.32040

Longitude: -92.39545

Inspector:

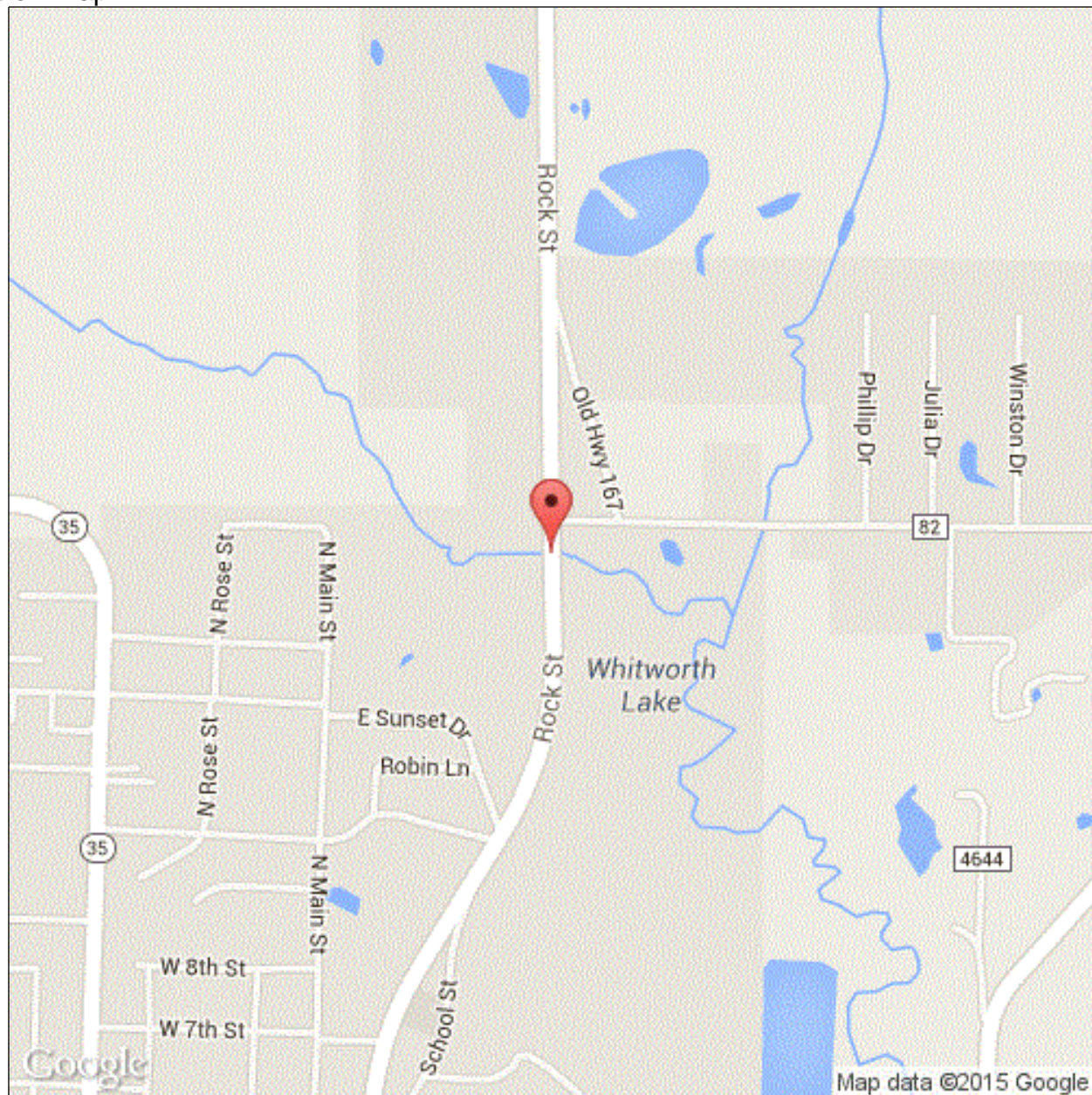
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Executive Summary

Bridge is logged from south to north.

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National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	09/06/2017
(8) STRUCTURE NUMBER	02825	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 6 167 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	02 (3) COUNTY CODE 053	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	61600	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	West Fork of Big Creek	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 167-11B LM 0.99		
(9) LOCATION	0.99 Mi N US 270-Sheridan		
(11) MILEPOINT 0.990	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	000016711B (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.32040	(17) LONGITUDE -92.39545		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	7
A) KIND OF MATERIAL/DESIGN: 2 - Concrete continuous		(59) SUPERSTRUCTURE	7
B) TYPE OF DESIGN/CONSTR: 01 - Slab		(60) SUBSTRUCTURE	7
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	7
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
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 6		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1952	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	4
(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 6800	(19) BYPASS DETOUR LENGTH 14	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	29.0
(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.) 33	(49) STRUCTURE LENGTH (ft.) 88	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 1.5 RIGHT 1.5		(68) DECK GEOMETRY	2
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 25.9		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 29.5		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 42.0		(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:	0
(47) TOTAL HORIZONTAL CLEARANCE (ft.) 28.9		36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	0
(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	2
		STATUS	63.9
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED 31	(75B) WORK DONE BY 1	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 114.0		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
(95) ROADWAY IMPROVEMENT COST (\$)	400	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	899	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2004	(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 13981	(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
		(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

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Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
38 - Reinforced Concrete Slab	1- Ben.	2596	sq. ft.	2580	8	8	0
	Deck: 29.5' wide x 88' long. This is a 3 span continuous poured slab unit. Moderate- to large-sized transverse cracking in asphalt wearing surface at bridge ends. Some scattered hairline- to minor-sized cracking in asphalt wearing surface in wheel ruts. Soffit: Hairline-sized transverse crack with some very light efflorescence and rust staining near the middle of each span. Spans 2 & 3: Some small areas of delamination along left side, with a small amount of steel exposed near drain on Span 2 left.						
1080 - Delamination/Spall/Patched Area		8			8		
1090 - Exposed Rebar		8				8	
510 - Wearing Surfaces		2288	sq. ft.	2288			
215 - Reinforced Concrete Abutment	1- Ben.	72	ft.	62	10	0	0
	Abutments: 36' each \ Bents 1 & 4. Some minor erosion\settlement under cap on center portion - 6-8" of piling exposed.						
6000 - Scour		10			10		
227 - Reinforced Concrete Pile	1- Ben.	10	each	0	10	0	0
	Piling: 5 per bent \ Bents 2 & 3. Some light loss of mortar\abrasive wear on lower portion of piling.						
1190 - Abrasion/Wear (PSC/RC)		10			10		
234 - Reinforced Concrete Pier Cap	1- Ben.	56	ft.	54	2	0	0
	Caps: 28' each \ Bents 2 & 3. Some minor vertical hair line cracks in caps.						
1130 - Cracking (RC and Other)		2			2		
330 - Metal Bridge Railing	1- Ben.	176	ft.	88	88	0	0
	Railing: 88' each side. Coating: 2.5 square feet/linear feet of railing. Metal railing with concrete posts. Left side: Scattered, light surface rust on metal railing.						
1000 - Corrosion		88			88		
515 - Steel Protective Coating		440	sq. ft.	220	0	220	0
3440 - Effectiveness (Steel Protective Coatings)		220				220	

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Pictures

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Sketches

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Maintenance Needs