



Latitude:34.76251, Longitude:-91.92995

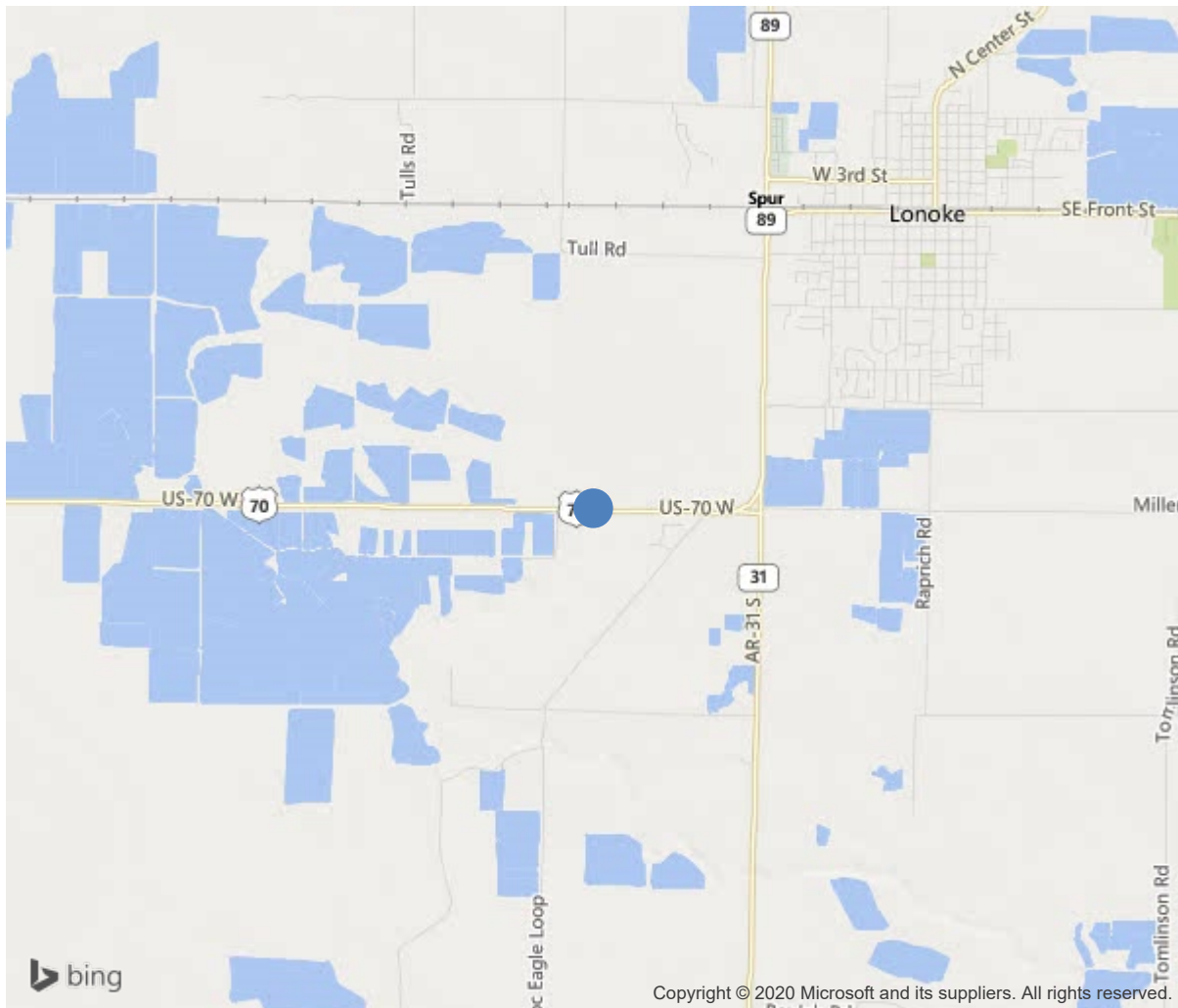
Route:70 Section:14 Log:8.389

Arnold Road ID:43x70x14xA, Arnold Log mile:8.4

District 06, Lonoke County

Owner: 1-State Highway Agency

.75 MI W OF JCT SH 31



34.76251, -91.92995



Bridge #01540(Routine)

US 70 Log 8.39 over BAYOU METO

Location: .75 MI W OF JCT SH 31

Team Lead: Chris Doggett Inspection Date: September 05, 2019

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	01540
(5) Inventory Route	70
(2) Highway Agency District	06
(3) County Code	85-Lonoke County, Arkansas
(4) Place Code	0
(6) Features Intersected	BAYOU METO
(7) Facility Carried	US 70 Log 8.39
(9) Location	.75 MI W OF JCT SH 31
(11) Mile Point	8.389 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.76251
(17) Longitude	-91.92995
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	14
Material	1-Concrete
Type	4-Tee beam
(44) Approach Structure Type	00
Material	0-Other
Type	0-Other
(45) No. of Spans in Main Unit	9
(46) No. of Approach Spans	0
(107) Deck Structure Type	1-Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	6-Bituminous
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1931
(106) Year Reconstructed	0
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	2100
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	2 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	34 ft
(49) Structure Length	307 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	26.9 ft
(52) Deck Width Out to Out	30.2 ft
(32) Approach Roadway Width (W/Shoulders)	27.9 ft
(33) Bridge Median	0-No median
(34) Skew	0 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	27.6 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	99.9 ft
Ref:	
(56) Min Lat Underclear LT	0 ft
NAVIGATION DATA	
(38) Navigation Control	0-No navigation control on water
(111) Pier Protection	5-None present but re-evaluation
(39) Navigation Vertical Clearance	0 ft
(116) Vert-Lift Bridge Nav Min Vert Clear	0 ft
(40) Navigation Horizontal Clearance	0 ft

CLASSIFICATION	
(112) NBIS Bridge Length	Y
(104) Highway System	0
(26) Functional Class	7-Rural Major Collector
(100) Defense Highway	0-The inventory route is not a S
(101) Parallel Structure	N-No parallel structure exists.
(102) Direction of Traffic	2 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0-N/A
(110) Designated National Network	1-The inventory route is part of the
(20) Toll	3-On free road. The structure is toll-
(21) Maintain	1-State Highway Agency
(22) Owner	1-State Highway Agency
(37) Historical Significance	5-Bridge is not eligible for the NRHP
CONDITION	
(58) Deck	6
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2-M 13.5 / H 15
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	45
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	9
Rating	27
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	6
(68) Deck Geometry	3
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36) Traffic Safety Features	0000
A) Bridge Railings	0-Inspected feature does not meet cur
B) Transitions	0-Inspected feature does not meet cur
C) Approach Guardrail	0-Inspected feature does not meet cur
D) Approach Guardrail Ends	0-Inspected feature does not meet cur
(113) Scour Critical Bridges	5-Bridge foundations determined to be
PROPOSED IMPROVEMENTS	
(75) Type of Work	Replacement of bridge or other
(76) Length of Structure Improvement	343 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 125
(96) Total Project Cost	\$ 729
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	3453
(115) Year of Future ADT	2028
INSPECTIONS	
(90) Inspection Date	
(91) Frequency	24 Months
(92) Critical Feature Inspection	Done Freq. (Mon) Date
A: Fracture Critical Detail	No 24
B: Underwater Inspection	No 0
C: Other Special Inspection	No 0



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
227	Reinforced Concrete Pile	EA	42	2	39	1	0
1090	Exposed Rebar	EA	1	0	0	1	0
1190	Abrasion/Wear (PSC/RC)	EA	39	0	39	0	0
(227)							
Bent 2 pile 5 spall with exposed rebar on the ahead side. Added pile due to erosion action at both abutments exposing pile at center line.							
234	Reinforced Concrete Pier Cap	LF	216	207	5	4	0
1090	Exposed Rebar	LF	7	0	3	4	0
1130	Cracking (RC and Other)	LF	2	0	2	0	0
(234)							
Bent 2 at the right end and at pile. Photo linked. Bent 6, ahead side, three small Spalls with exposed rebar. Bent 8 right end spalled with exposed rebar. Photo linked.							
311	Movable Bearing	EA	20	20	0	0	0
331	Reinforced Concrete Bridge Railing	LF	614	614	0	0	0



Soffit view



Bent 1: erosion action has exposed pile at the center of abutment



Span 1, girder at bent 2: spall with exposed rebar



Left side span 1, at bent 2: large spall at the end of the span with exposed rebar



Span 7, girder 3 @ bent 8: spalls with exposed rebar



Right side bent 8 cap is spalled with exposed rebar that has significant section loss



Deck view



Bent 2, pile 5: spall with exposed rebar



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Maintenance Needs



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Team Lead: Chris Doggett **Inspection Date:** September 05, 2019

Inspection Comments

AHTD Job 6115, drawing 2827Logged east bound