



Latitude:34.80371, Longitude:-91.89940

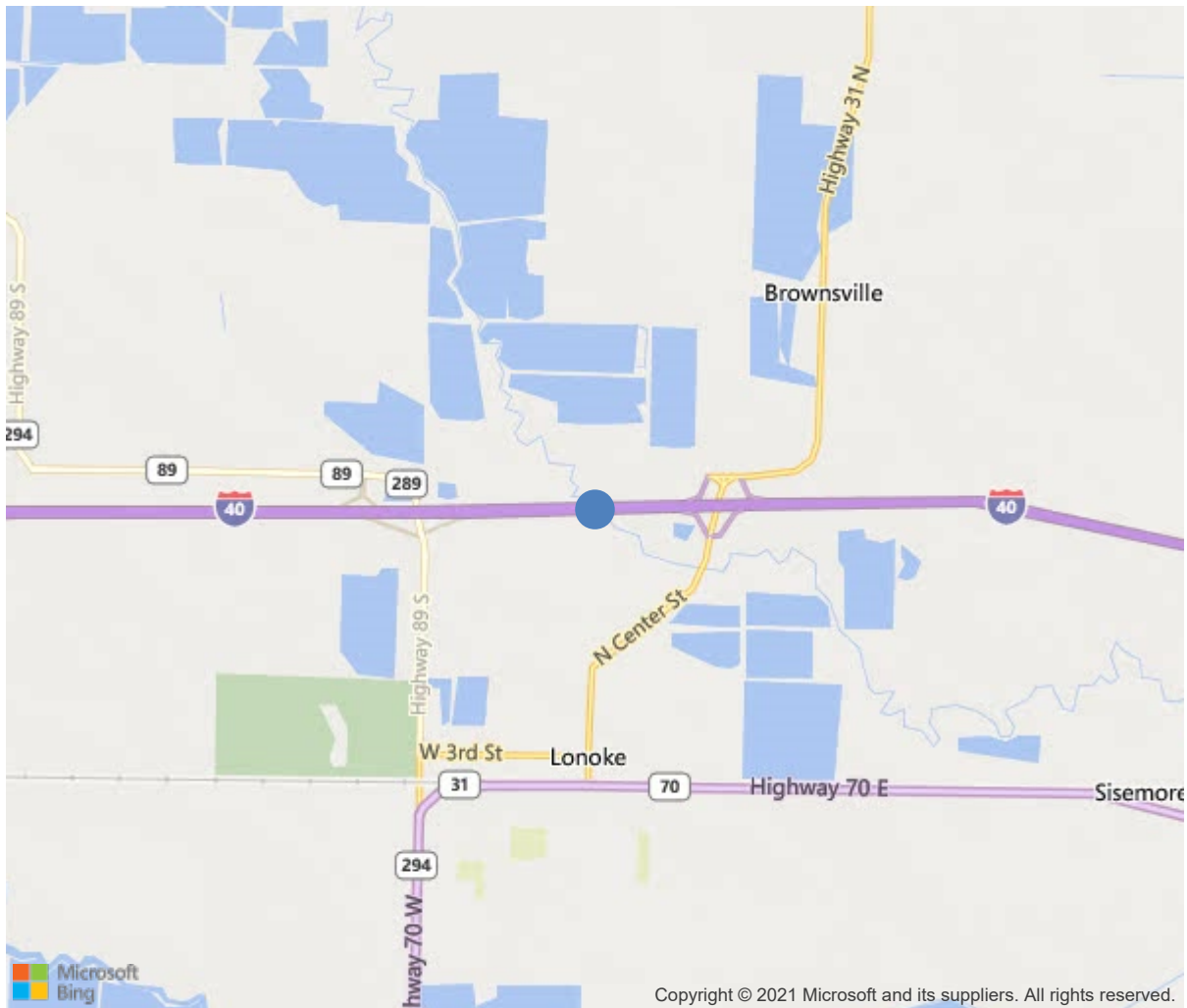
Route:40 Section:41 Log:174.01

Arnold Road ID:43x40x41xA, Arnold Log mile:173.915

District 06, Lonoke County

Owner: 1-State Highway Agency

0.6 Mi w of SH 31



34.80371, -91.89940



Bridge #B6873(Routine)

I-40 EB Log 174.01 over Bayou Two Prairie

Location: 0.6 Mi w of SH 31

Team Lead: Chris Doggett Inspection Date: September 10, 2019

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	B6873
(5) Inventory Route	40
(2) Highway Agency District	06
(3) County Code	85-Lonoke County, Arkansas
(4) Place Code	0
(6) Features Intersected	Bayou Two Prairie
(7) Facility Carried	I-40 EB Log 174.01
(9) Location	0.6 Mi w of SH 31
(11) Mile Point	174.01 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000040410
(16) Latitude	34.80371
(17) Longitude	-91.8994
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	42
Material	4-Steel continuous
Type	2-Stringer/Multi-beam or girder
(44) Approach Structure Type	00
Material	0-Other
Type	0-Other
(45) No. of Spans in Main Unit	5
(46) No. of Approach Spans	0
(107) Deck Structure Type	1-Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	1-Monolithic Concrete (concurrently placed
Type of Membrane	0-None
Type of Deck Protection	1-Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	2004
(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	40000
(30) Year of ADT	2014
(109) Truck ADT	43 %
(19) Bypass, Detour Length	0 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	47 ft
(49) Structure Length	223.6 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	40 ft
(52) Deck Width Out to Out	40 ft
(32) Approach Roadway Width (W/Shoulders)	40 ft
(33) Bridge Median	1-Open median
(34) Skew	35 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	40 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	1-Navigation protection not requ
(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	1
(26) Functional Class	1-Rural Principal Arterial - Int
(100) Defense Highway	1-The inventory route is on a In
(101) Parallel Structure	R-The right structure of paralle
(102) Direction of Traffic	1 - 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	7
(59) Superstructure	8
(60) Substructure	8
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	6-MS 18+Mod / HS 20+Mod
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	60
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	5
Rating	36
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	8
(68) Deck Geometry	7
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1-Inspected feature meets currently a
(36B) Transitions	1-Inspected feature meets currently a
(36C) Approach Guardrail	1-Inspected feature meets currently a
(36D) Approach Guardrail Ends	1-Inspected feature meets currently a
(113) Scour Critical Bridges	5-Bridge foundations determined to be
PROPOSED IMPROVEMENTS	
(75) Type of Work	
(76) Length of Structure Improvement	0 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 0
(97) Year of Improvement Cost Estimate	
(114) Future ADT	24859
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	09/2019		
(91) Frequency	24 Months		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection	No		
* The inspection date and frequency information in this box contains the current NBI date and frequency information. Please refer to the report header for the date this inspection was conducted.			



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	9655	7863	1792	0	0
1130	Cracking (RC and Other)	SF	1792	0	1792	0	0
(12)	Unsealed longitudinal cracks in all spans. 0.030 inch avg.						
107	Steel Open Girder/Beam	LF	1326	1326	0	0	0
515	Steel Protective Coating	SF	8075	0	8075	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	SF	8075	0	8075	0	0
(107)	All beams are light brown with granular texture.						
215	Reinforced Concrete Abutment	LF	156	156	0	0	0
(215)	Small vertical crack in both abutments.						
227	Reinforced Concrete Pile	EA	24	24	0	0	0
234	Reinforced Concrete Pier Cap	LF	202	201	1	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
(234)	Left end of bent 5 has a spall. See photo.						
300	Strip Seal Expansion Joint	LF	86	86	0	0	0
310	Elastomeric Bearing	EA	36	36	0	0	0
321	Reinforced Concrete Approach Slab	SF	1752	1684	32	36	0
1130	Cracking (RC and Other)	SF	68	0	32	36	0
(321)	Both approach slabs have diagonal cracks.						
331	Reinforced Concrete Bridge Railing	LF	442	400	42	0	0
1130	Cracking (RC and Other)	LF	42	0	42	0	0



Deck view



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Inspection Comments

AHTD Job B60113, drawing 43213

Underwater performed by probing pile from boat.

Logged east bound