



Latitude:34.65246, Longitude:-91.80969

Route:381 Section:01 Log:8.878

Arnold Road ID:43x381x1xA, Arnold Log mile:8.752

District 06, 85 - Lonoke County

Owner: 1 - State Highway Agency

Bridge Posting Information

41 - Structure Open/Posted/Closed: A - Open, no restriction

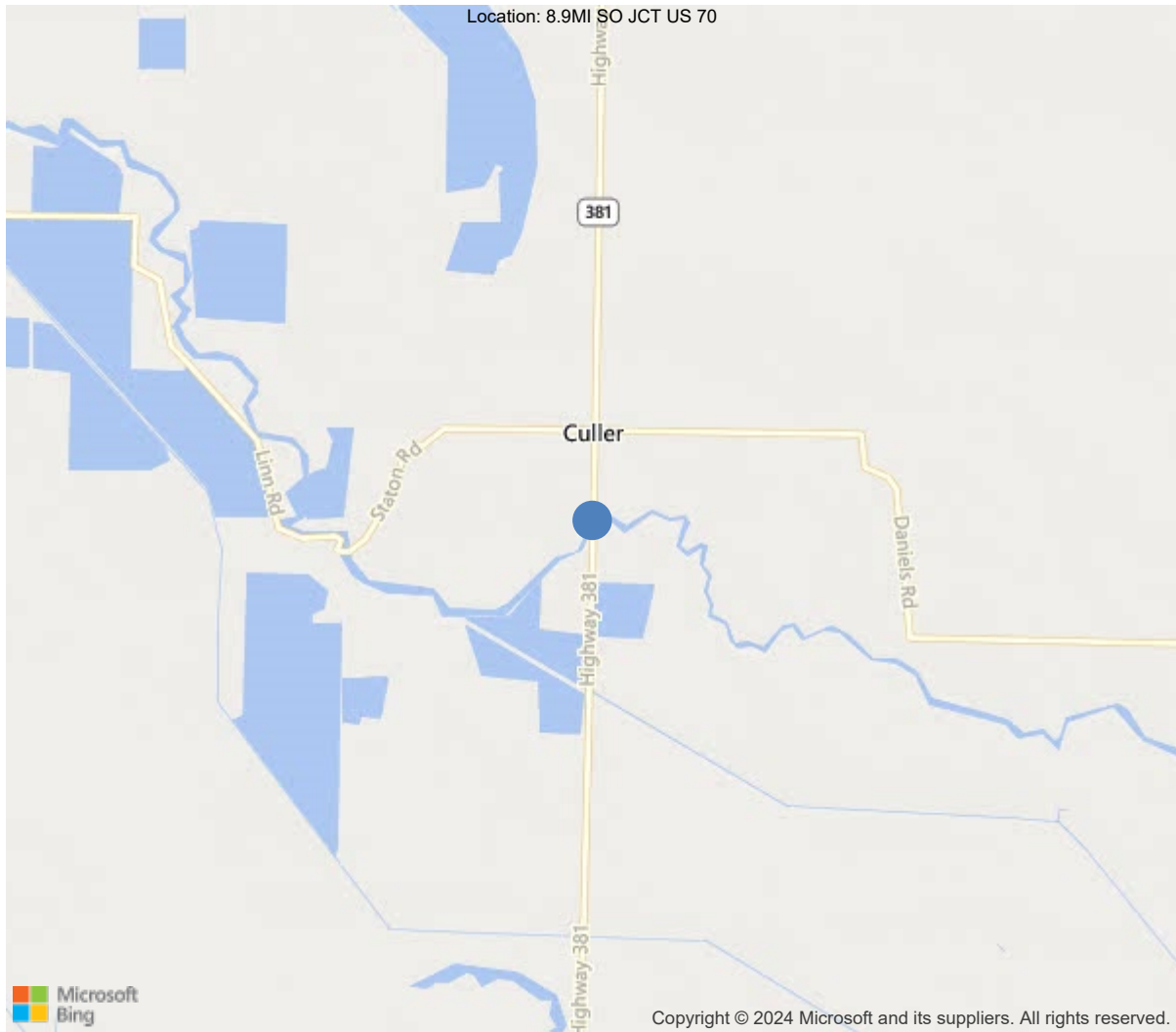
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	38		
Code 9 (31 Tons)	43		
Code 5 (40 Tons)	50		

If calculated Capacity is less than the Legal Load Listed, the Bridge Legally Requires Posting Signs to be installed by the Bridge Owner



30"x36" AR



34.65246, -91.80969



Asset #05870(Routine, Underwater type 2)
SH 381Log 8.88 over BAYOU METO SLOUGH

Location: 8.9MI SO JCT US 70

Team Lead: Bryan Saunders, Inspection Date: 09/19/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05870
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	85 - Lonoke County
(4) Place Code	0
(6) Features Intersected	BAYOU METO SLOUGH
(7) Facility Carried	SH 381Log 8.88
(9) Location	8.9MI SO JCT US 70
(11) Mile Point	8.878 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.652458
(17) Longitude	-91.809692
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	11
Material	1 - Concrete
Type	1 - Slab
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	4
(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 pl
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1980
(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	210
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	3 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	35 ft
(49) Structure Length	140 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	27.9 ft
(52) Deck Width Out to Out	30.8 ft
(32) Approach Roadway Width (W/Shoulders)	29.9 ft
(33) Bridge Median	0 - No median
(34) Skew	45 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	29.5 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 w
(111) Pier Protection	1 - Navigation protection not
(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
(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	0 - The inventory route is not
(20) Toll	3 - On free road. The structure
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	7
(59) Superstructure	7
(60) Substructure	7
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	4 - M 18 / H 20
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	56
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	34
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRAISAL	
(67) Structural Evaluation	
(68) Deck Geometry	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	0 - Inspected feature does not meet
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	0 - Inspected feature does not meet
(113) Scour Critical Bridges	5 - Bridge foundations determined t
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	290
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	09/19/2022		
(91) Frequency	24		
(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.			



Asset #05870(Routine, Underwater type 2)

District: 06, County: 85 - Lonoke County

Team Lead: Bryan Saunders, Inspection Date: 09/19/2022

General Observation

see AHTD job # 60229 Drawing # 23528

Logged South bound.

Channel profile done 9/15/2020

60 - Substructure (7 - GOOD CONDITION - some minor problems.)

underwater type 2 conducted using probe and wading the channel

61 - Channel/Channel Protection (7 - Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift.)

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Team Lead: Bryan Saunders, **Inspection Date:** 09/19/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	4312	3429	883	0	0
1080	Delamination/Spall/Patched Area	SF	3	0	3	0	0
1130	Cracking (RC and Other)	SF	40	0	40	0	0
1190	Abrasion/Wear (PSC/RC)	SF	840	0	840	0	0
(38) Scattered small cracks in the deck with minor abrasion. honeycomb in the soffit at the backside of bent 2 abrasion due to farm machinery							
215	Reinforced Concrete Abutment	LF	100	100	0	0	0
227	Reinforced Concrete Pile	EA	18	14	4	0	0
1190	Abrasion/Wear (PSC/RC)	EA	4	0	4	0	0
(227) .							
234	Reinforced Concrete Pier Cap	LF	135	126	7	2	0
1080	Delamination/Spall/Patched Area	LF	2	0	0	2	0
1090	Exposed Rebar	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	6	0	6	0	0
(234) Bent 2 cap ahead has spalls at the keyways. Scattered small cracks in the caps. Bent 4 cap exposed rebar between pile 1&2							
301	Pourable Joint Seal	LF	118	0	0	118	0
2320	Seal Adhesion	LF	118	0	0	118	0
(301) Joint seals have lost bond and are allowing water to freely flow through.							
331	Reinforced Concrete Bridge Railing	LF	280	277	3	0	0
1080	Delamination/Spall/Patched Area	LF	3	0	3	0	0



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Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Substructure

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227	Reinforced Concrete Pile	EA	18	14	4	0	0
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1090	Exposed Rebar	LF	1	0	1	0	0
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Elevation



Approach looking south



Deck view



Soffit view



Abrasion to piles at the water line



Honeycomb in soffit at bent 3



Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	
A-56 - Joint Cleaning/Flushing Needed	
A-57 - Beam End and Bearing Paint Needed	
A-58 - Cap Cleaning/Flushing Needed	
A-59 - Joint Repair Needed	
A-60 - Full Beam Painting Needed	
A-61 - Polymer Overlay Advised	
A-62 - Hydro and LMC Advised	
A-63 Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	

A-54 - Sealable Deck Cracks

A-55 - Deck Washing Needed

A-56 - Joint Cleaning/Flushing Needed



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A-57 - Beam End and Bearing Painting Needed

A-58 - Cap Cleaning/Flushing Needed

A-59 - Joint Repair Needed

A-60 - Full Beam Painting Needed

A-61 - Polymer Overlay Advised

A-62 - Hydro and LMC Advised

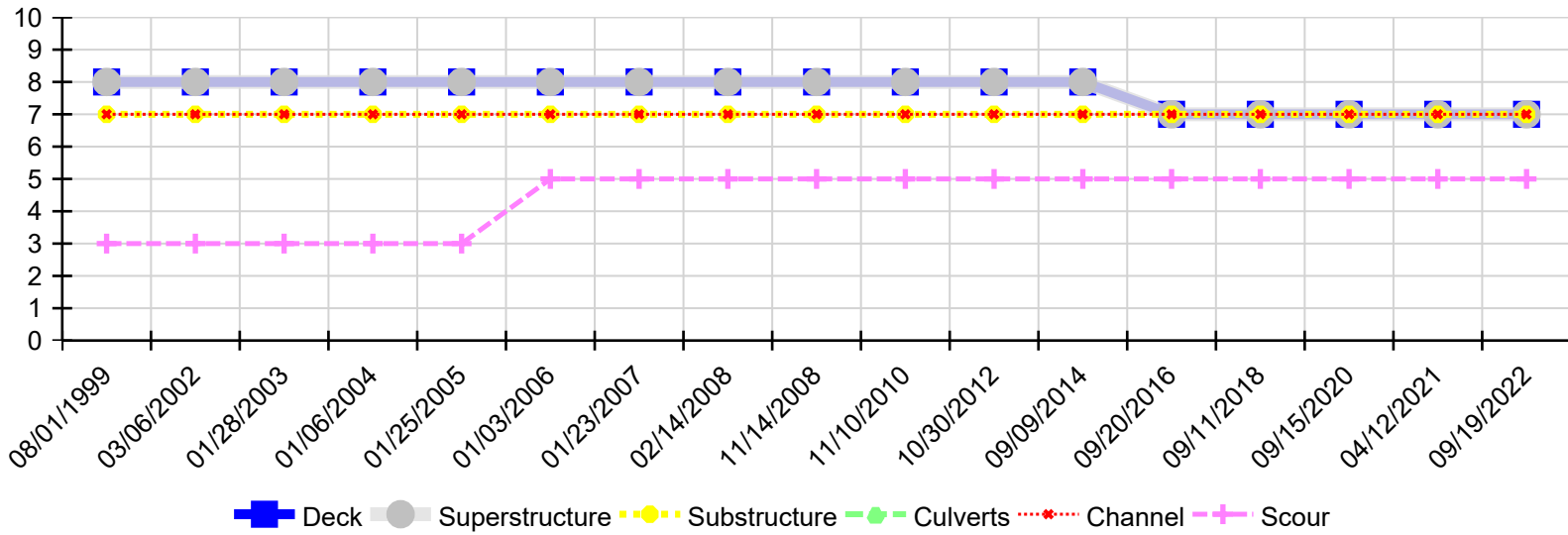
A-63 - Missing/Incorrect Log Mile Signage

A-64 - Vegetation Removal Requested



Team Lead: Bryan Saunders, Inspection Date: 09/19/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
09/19/2022	7	7	7	N	7	5
04/12/2021	7	7	7	N	7	5
09/15/2020	7	7	7	N	7	5
09/11/2018	7	7	7	N	7	5
09/20/2016	7	7	7	N	7	5
09/09/2014	8	8	7	N	7	5
10/30/2012	8	8	7	N	7	5
11/10/2010	8	8	7	N	7	5
11/14/2008	8	8	7	N	7	5
02/14/2008	8	8	7	N	7	5
01/23/2007	8	8	7	N	7	5
01/03/2006	8	8	7	N	7	5
01/25/2005	8	8	7	N	7	3
01/06/2004	8	8	7	N	7	3
01/28/2003	8	8	7	N	7	3
03/06/2002	8	8	7	N	7	3
08/01/1999	8	8	7	N	7	3