



Latitude:34.62261, Longitude:-91.81063

Route:381 Section:01 Log:10.978

Arnold Road ID:43x381x1xA, Arnold Log mile:10.81

District 06, 85 - Lonoke County

Owner: 1 - State Highway Agency

Bridge Posting Information

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

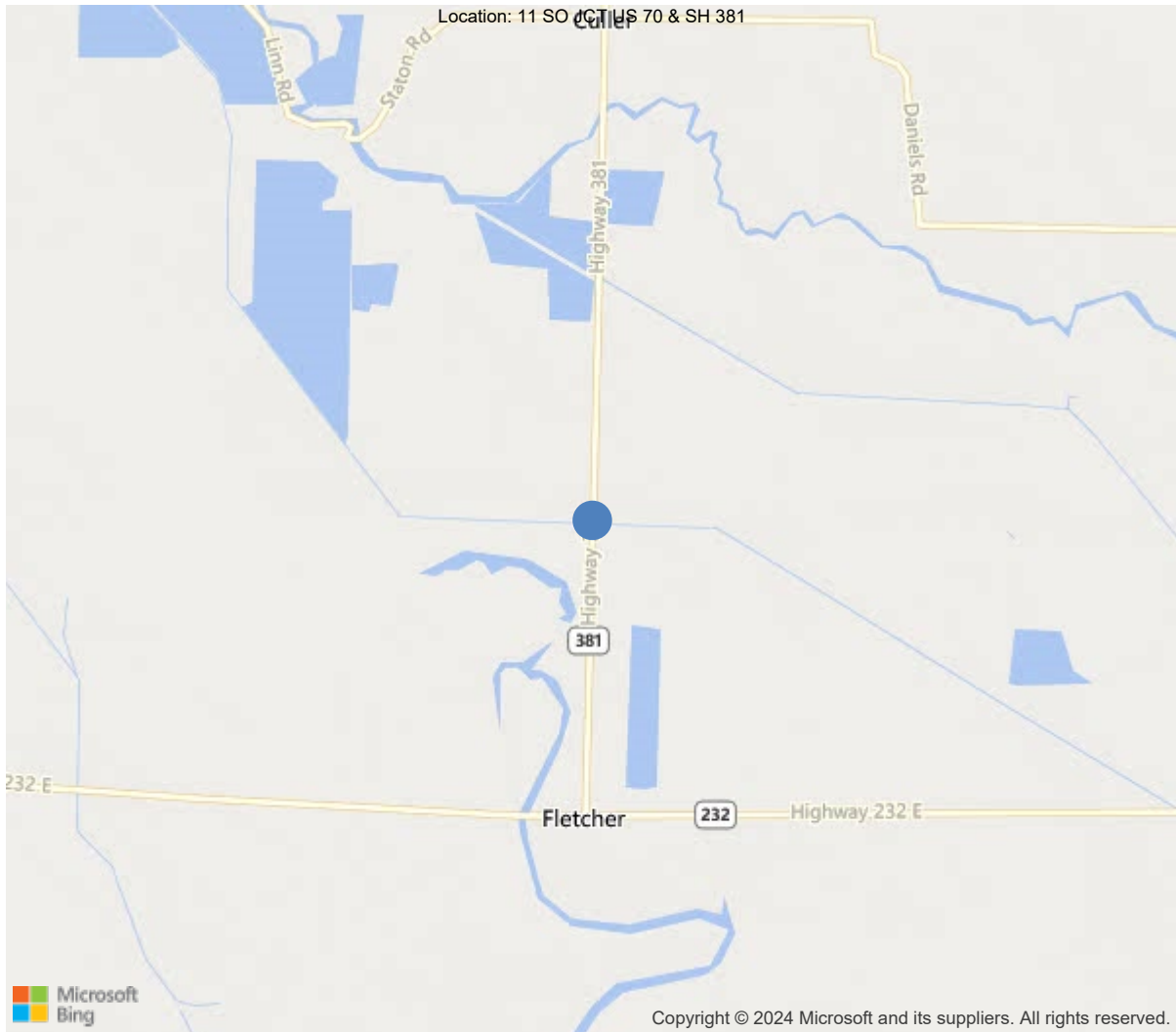
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	37		
Code 9 (31 Tons)	44		
Code 5 (40 Tons)	58		

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



34.62261, -91.81063



Asset #05868(Routine, Underwater type 2)

SH 381 Log 10.98 over BIG DITCH

Location: 11 SO JCT US 70 & SH 381

Team Lead: Bryan Saunders, Inspection Date: 09/20/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05868
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	85 - Lonoke County
(4) Place Code	0
(6) Features Intersected	BIG DITCH
(7) Facility Carried	SH 381 Log 10.98
(9) Location	11 SO JCT US 70 & SH 381
(11) Mile Point	10.978 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.622608
(17) Longitude	-91.810631
(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	3
(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	25 ft
(49) Structure Length	75 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	0 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	60
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
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	
(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	09/20/2022		
(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 **#05868**(Routine, Underwater type 2)

District: 06, **County:** 85 - Lonoke County

Team Lead: Bryan Saunders, **Inspection Date:** 09/20/2022

General Observation

AHTD Job # 60229 Drawing # 23522

Logged south bound.

Channel profile done 9/15/2020

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

piles probed at water line while wading

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.)

piles probed at water line while wading



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ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	2310	1935	375	0	0
1130	Cracking (RC and Other)	SF	125	0	125	0	0
1190	Abrasion/Wear (PSC/RC)	SF	250	0	250	0	0
(38) Deck all spans have small longitudinal crack at center line and scattered areas of minor wear deck has abrasion from farm machinery							
215	Reinforced Concrete Abutment	LF	80	80	0	0	0
(215) Both abutments have minor erosion.							
227	Reinforced Concrete Pile	EA	11	4	7	0	0
1190	Abrasion/Wear (PSC/RC)	EA	7	0	7	0	0
(227) Exposed pile at bent 1 both side Exposed pile at bent 4 right side side							
234	Reinforced Concrete Pier Cap	LF	60	58	2	0	0
1130	Cracking (RC and Other)	LF	2	0	2	0	0
(234) Bent 3 cap has small cracks.							
301	Pourable Joint Seal	LF	56	0	0	56	0
2320	Seal Adhesion	LF	56	0	0	56	0
(301) Pourable joint seals have lost bond.							
331	Reinforced Concrete Bridge Railing	LF	150	150	0	0	0

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
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Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



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Comment: piles probed at water line while wading

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Comment: piles probed at water line while wading



Elevation



Approach looking south



Soffit view



Deck view



Bent 4 right side exposed pile



Right end of bent 3 cap has small cracks with efflorescence

Maintenance Needs

Date Reported: 09/10/2014

Priority: C - Important

Type of Work: (Inactive) (Inactive) 9 - None

Status: Assigned

Component:

Deficiency Description

Both abutments are undermined due to erosion.

Remarks

Assigned Lonoke 06431 9-30-15



Bent 4: left end of abutment, the embankment is eroding



Bent 1: the embankment is eroding and undermining the abutment



Bent 4: left end of abutment, the embankment is eroding



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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



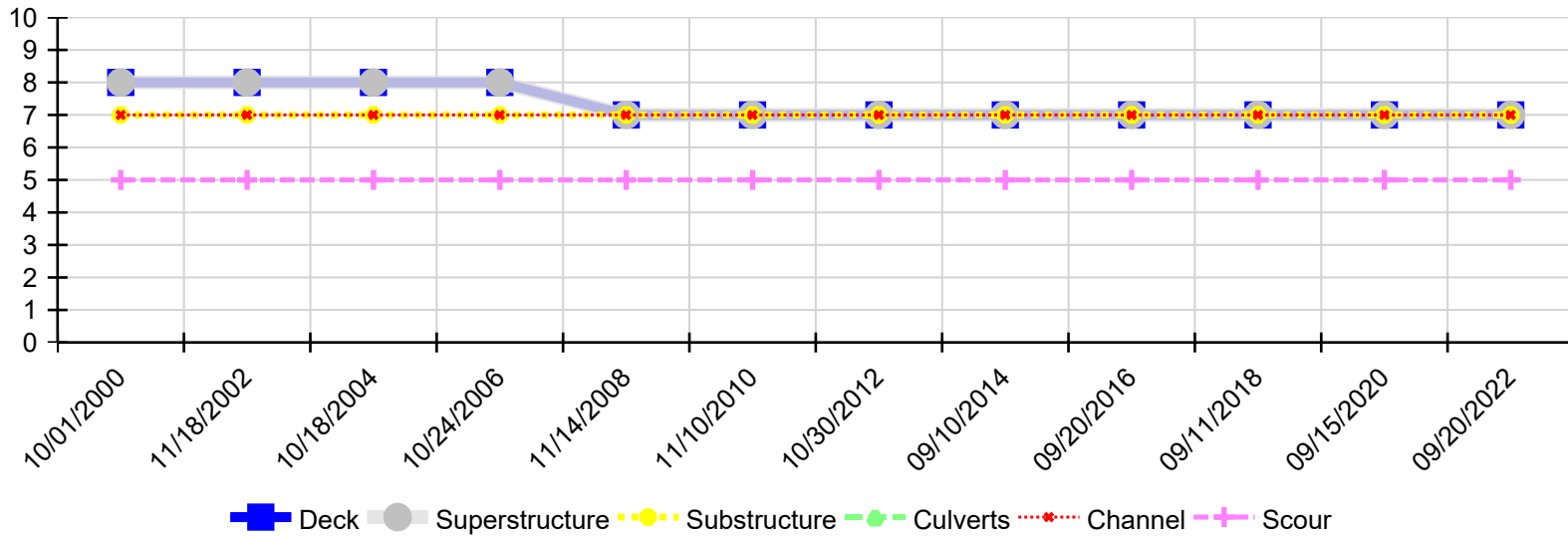
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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
09/20/2022	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
09/10/2014	7	7	7	N	7	5
10/30/2012	7	7	7	N	7	5
11/10/2010	7	7	7	N	7	5
11/14/2008	7	7	7	N	7	5
10/24/2006	8	8	7	N	7	5
10/18/2004	8	8	7	N	7	5
11/18/2002	8	8	7	N	7	5
10/01/2000	8	8	7	N	7	5