



Latitude:34.94571, Longitude:-91.87410

Route:31 Section:03 Log:11.768

Arnold Road ID:43x31x3xA, Arnold Log mile:11.839

District 06, 85 - Lonoke County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N



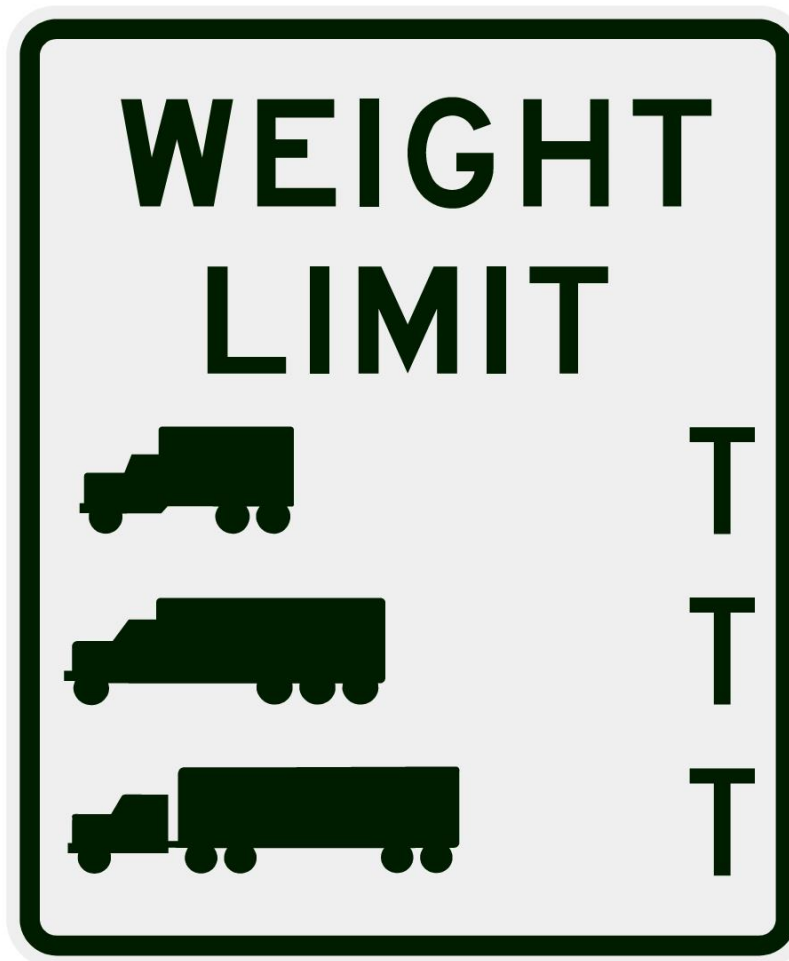
### Bridge Posting Information

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

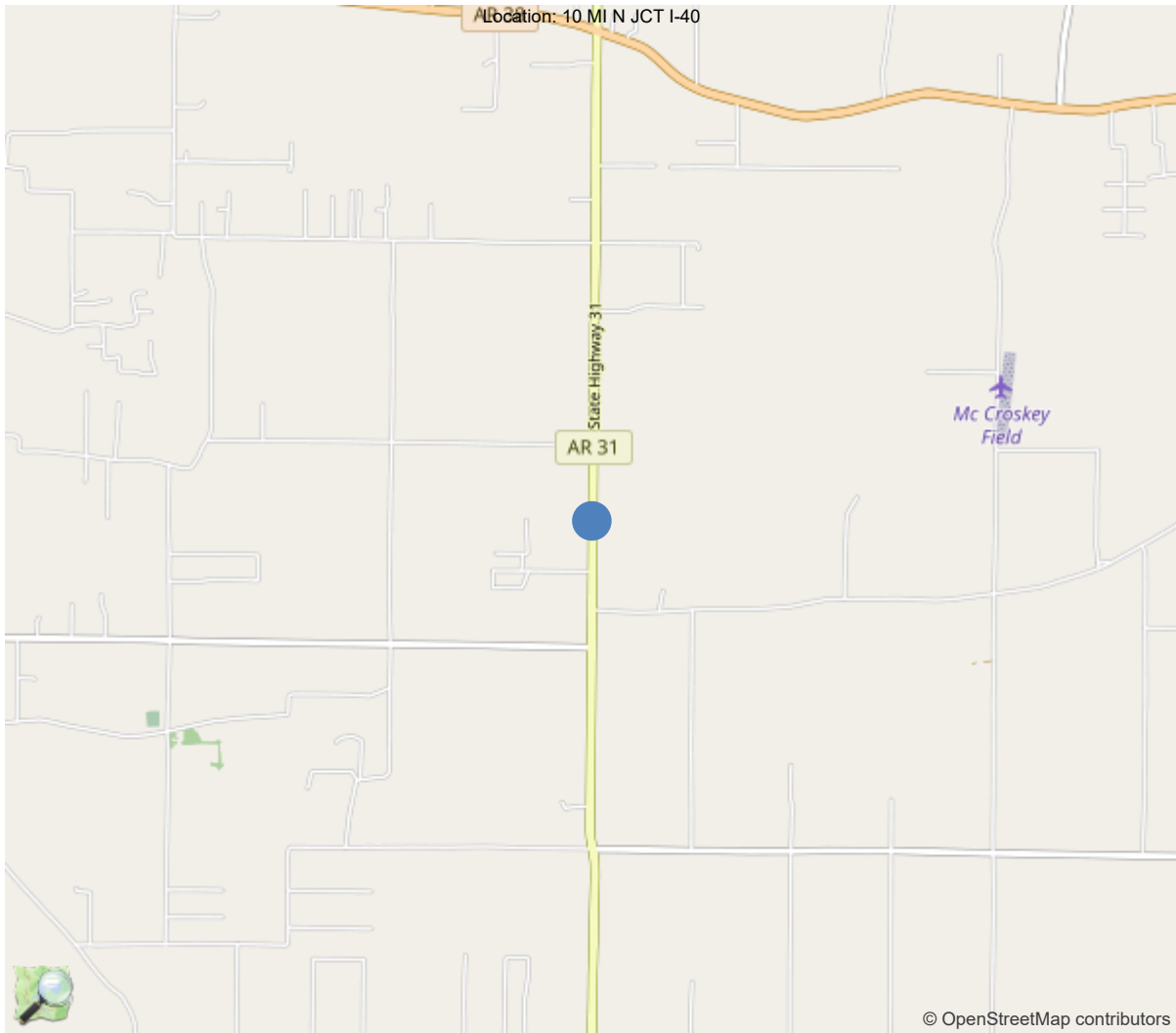
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	40		
Code 9 (31 Tons)	50		
Code 5 (40 Tons)	60		

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



34.94571, -91.87410



**Asset #06132**(Routine, Underwater type 2)  
**SH 31-3 Log 11.77 over PIGEON ROOST CREEK**  
**Location: 10 MI N JCT I-40**  
**Team Lead: Keith Harris Inspection Date: 11/30/2021**

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	06132
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	85 - Lonoke County
(4) Place Code	0
(6) Features Intersected	PIGEON ROOST CREEK
(7) Facility Carried	SH 31-3 Log 11.77
(9) Location	10 MI N JCT I-40
(11) Mile Point	11.768 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000031030
(16) Latitude	34.94571
(17) Longitude	-91.8741
(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	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	1987
(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	4199
(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	77 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	32.2 ft
(52) Deck Width Out to Out	34.8 ft
(32) Approach Roadway Width (W/Shoulders)	32.2 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	33.1 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	6 - Rural Minor Arterial
(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	8
(60) Substructure	8
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	5 - MS 18 / HS 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	4
(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	4834
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	11/30/2021		
(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.			



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**General Observation**

Job 60266, layout 27422

Logged Northbound.

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ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	2685	2560	125	0	0
1130	Cracking (RC and Other)	SF	125	0	125	0	0
(12) Random transverse cracks in all spans.							
107	Steel Open Girder/Beam	LF	375	375	0	0	0
515	Steel Protective Coating	SF	2126	0	2126	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	2126	0	2126	0	0
(515-107) All beams have a granular texture							
215	Reinforced Concrete Abutment	LF	82	79	3	0	0
1130	Cracking (RC and Other)	LF	3	0	3	0	0
227	Reinforced Concrete Pile	EA	10	4	6	0	0
1190	Abrasion/Wear (PSC/RC)	EA	6	0	6	0	0
(227) Bents 2&3 piles 2,3&4 have light abrasion at ground line							
234	Reinforced Concrete Pier Cap	LF	66	66	0	0	0
302	Compression Joint Seal	LF	70	70	0	0	0
311	Movable Bearing	EA	10	6	4	0	0
1000	Corrosion	EA	4	0	4	0	0
(311) Bearings 1&5 at bent 1&4 have laminated rust							
313	Fixed Bearing	EA	10	10	0	0	0
331	Reinforced Concrete Bridge Railing	LF	154	137	17	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	16	0	16	0	0



Elevation



Elevation



Deck overview



Soffit view





Approach



Bent 1 bearing 1 laminated rust



**Maintenance Needs**

**Date Reported:** 10/17/2011

**Priority:** D- Routine

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

**Status:** Repair Documented

**Component:**

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**Deficiency Description**

At bent 3 scour has eroded the bank at columns 2 and 3.

**Remarks**

Minor aggradation / degradation noted in the stream. Rip-rap remains in place.  
Assigned Lonoke 06431 5/15/18

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Bent 3, piles 2 & 3: local scour at this location



## 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 - Girder End and Bearing Painting Needed**

**A-58 - Cap Cleaning/Flushing Needed**

**A-59 - Joint Repair Needed**

**A-60 - Full Girder 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**



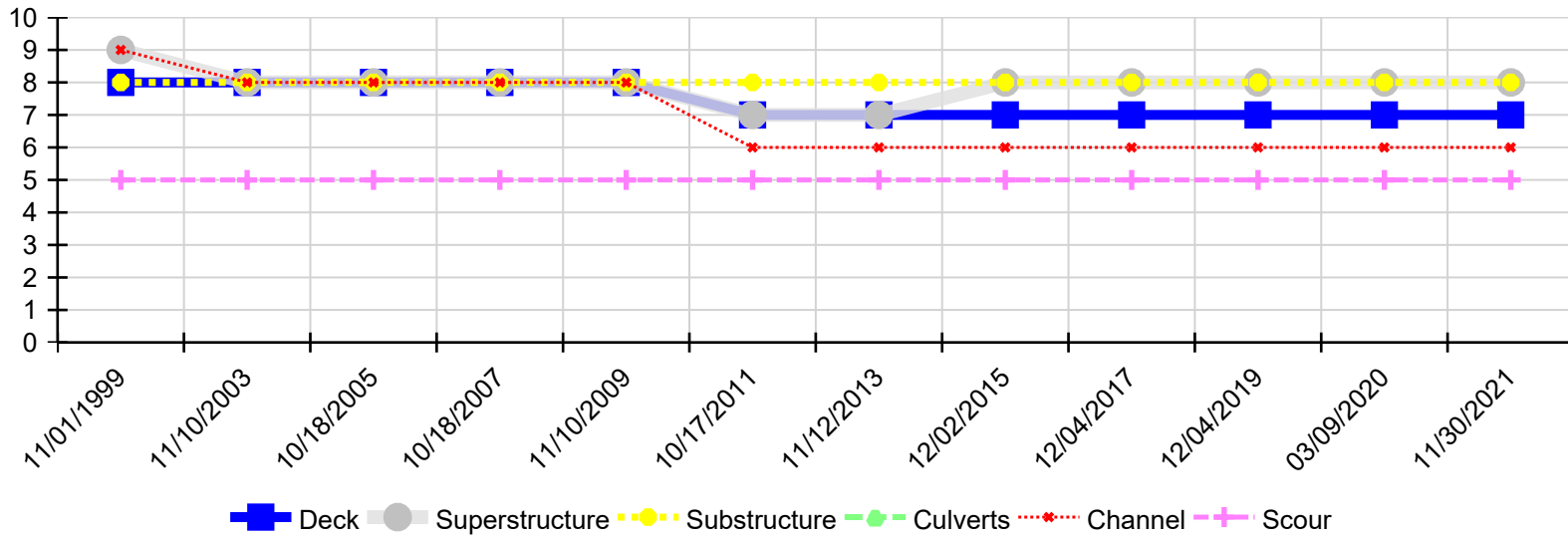


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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
11/30/2021	7	8	8	N	6	5
03/09/2020	7	8	8	N	6	5
12/04/2019	7	8	8	N	6	5
12/04/2017	7	8	8	N	6	5
12/02/2015	7	8	8	N	6	5
11/12/2013	7	7	8	N	6	5
10/17/2011	7	7	8	N	6	5
11/10/2009	8	8	8	N	8	5
10/18/2007	8	8	8	N	8	5
10/18/2005	8	8	8	N	8	5
11/10/2003	8	8	8	N	8	5
11/01/1999	8	9	8	N	9	5