



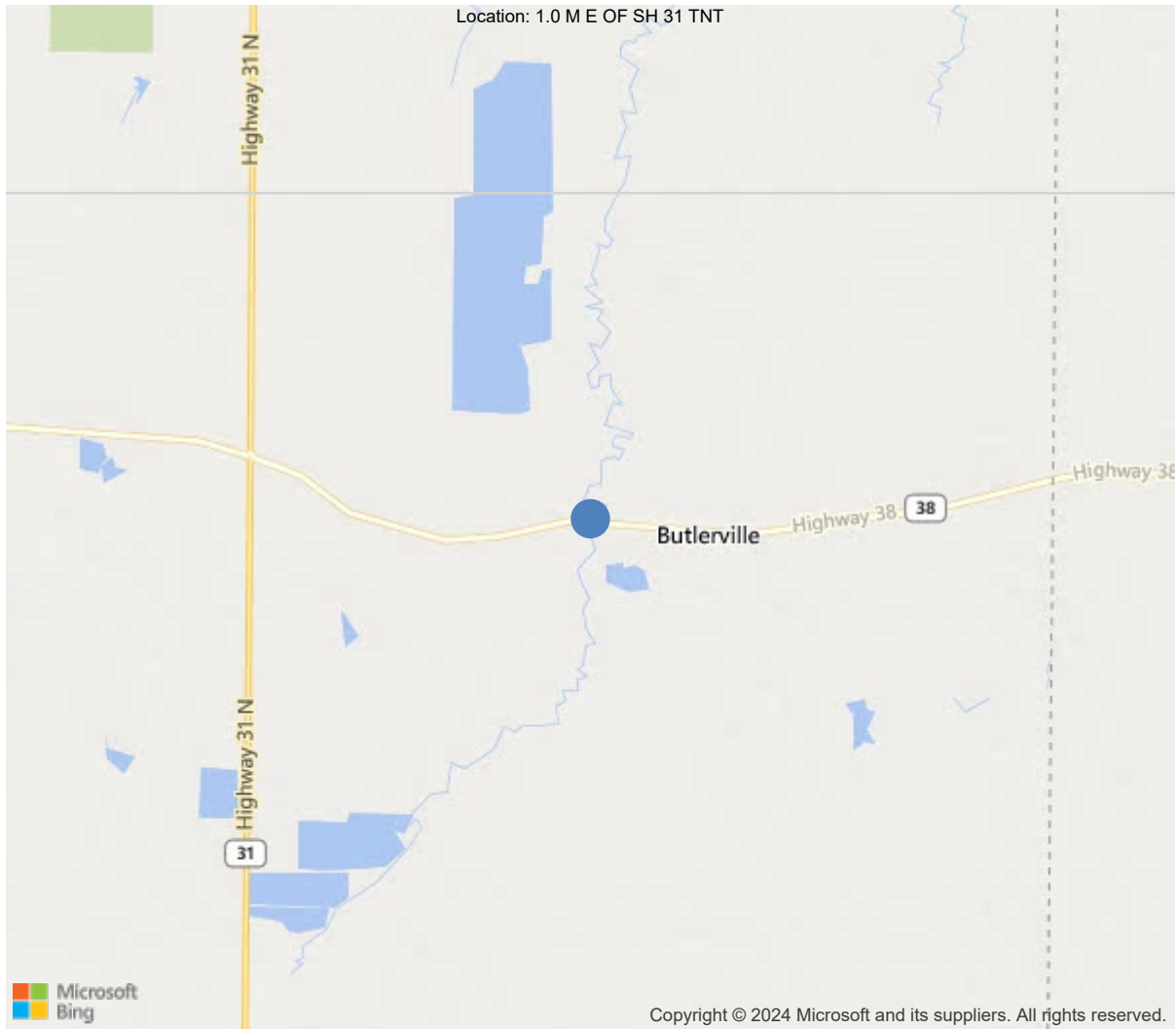
Latitude:34.97648, Longitude:-91.84373

Route:38 Section:00 Log:10.16

Arnold Road ID:43x38x0xA, Arnold Log mile:10.169

District 06, 85 - Lonoke County

Owner: 1 - State Highway Agency



34.97648, -91.84373



Asset #03170(Record Change)

SH 38 Log 10.16 over PIGEON ROOST CR.

Location: 1.0 M E OF SH 31 TNT

Team Lead: Anahi Mendez, Inspection Date: 10/18/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	03170
(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 CR.
(7) Facility Carried	SH 38 Log 10.16
(9) Location	1.0 M E OF SH 31 TNT
(11) Mile Point	10.16 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000038000
(16) Latitude	34.97648
(17) Longitude	-91.84373
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	122
Material	1 - Concrete
Type	22 - Channel beam
(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	2 - Concrete Precast Panels
(108) Wearing Surface/Protective System	
Type of Wearing Surface	5 - Epoxy Overlay
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1958
(106) Year Reconstructed	2023
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	2600
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	3 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	19 ft
(49) Structure Length	95.3 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	24.8 ft
(52) Deck Width Out to Out	24.8 ft
(32) Approach Roadway Width (W/Shoulders)	27.9 ft
(33) Bridge Median	0 - No median
(34) Skew	30 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	24.8 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	8
(59) Superstructure	8
(60) Substructure	7
(61) Channel & Channel Protection	6
(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	49
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	38
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	P - Posted for load (may include
APPRAISAL	
(67) Structural Evaluation	
(68) Deck Geometry	2
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	6
(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	3 - Bridge is scour critical; bridge
PROPOSED IMPROVEMENTS	
(75) Type of Work	35 - Bridge rehabilitation becomes
(76) Length of Structure Improvement	95 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 118
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	2486
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	09/06/2023		
(91) Frequency	12		
(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.			



General Observation

AHTD Job 6651, 9714 for layout.

superstructure/channel units have been replaced by state forces 8/2023 drawings for channel units are in asset file

Scour P.O.A. for this bridge.

Logged east bound.

49 - Structure Length (95.3)

95'4"

51 - Bridge Roadway Width Curb-To-Curb (24.8)

24'10"

58 - Deck (8 - VERY GOOD CONDITION - no problems noted.)

superstructure/channel units have been replaced by state forces 8/2023 drawings for channel units are in asset file

59 - Superstructure (8 - VERY GOOD CONDITION - no problems noted.)

Units are bolted and grouted.

superstructure/channel units have been replaced by state forces 8/2023 drawings for channel units are in asset file

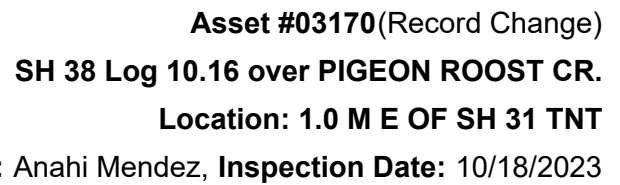
61 - Channel/Channel Protection (6 - Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly.) soundings taken from both sides of bridge

A-61 - Polymer Overlay Advised (N)

Polymer overlay added 9/2023

A-108 - Load Rating Requested (No)

state forces have replaced the channel units



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	2364	2364	0	0	0
510	Wearing Surfaces	SF	2364	2364	0	0	0
(16) channel units replaced 2023							
(510-16) polymer overlay added to new channel units							
110	Reinforced Concrete Open Girder/Beam	LF	570	570	0	0	0
(110) .channel units replaced 2023 7 units per span and 2 parapet units small golfball sized spalls at various locations							
215	Reinforced Concrete Abutment	LF	72	55	17	0	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
1130	Cracking (RC and Other)	LF	15	0	15	0	0
(215) Bent 1 small patch under unit 3 right leg. Bent 6 has some cracking under unit 6 and a spall under the left leg of unit 5.							
227	Reinforced Concrete Pile	EA	16	0	16	0	0
1190	Abrasion/Wear (PSC/RC)	EA	16	0	16	0	0
(227) All piles have abrasion to the lower section							
234	Reinforced Concrete Pier Cap	LF	124	60	52	12	0
1080	Delamination/Spall/Patched Area	LF	13	0	9	4	0
1120	Efflorescence/Rust Staining	LF	6	0	6	0	0
1130	Cracking (RC and Other)	LF	45	0	37	8	0
(234) caps have had a 1" concrete crown added 2023 caps have had 5" added to the height							
Bent 2, both ends of the cap have cracking with efflorescence and some scattered cracks in previous repairs. Bent 3 back side has a crack on the right end, on the ahead side, the face is cracked at pile 4 Bent 5 has a horizontal crack on the ahead face, six inches down from the top under units 1,2,3 and 4.							
331	Reinforced Concrete Bridge Railing	LF	190	190	0	0	0
(331) concrete bridge rail added 2023 with new channel units							



Asset #03170(Record Change)
SH 38 Log 10.16 over PIGEON ROOST CR.

Location: 1.0 M E OF SH 31 TNT

Team Lead: Anahi Mendez, Inspection Date: 10/18/2023

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	2364	2364	0	0	0
510	Wearing Surfaces	SF	2364	2364	0	0	0
(16) channel units replaced 2023							
(510-16) polymer overlay added to new channel units							

58 - Deck (8 - VERY GOOD CONDITION - no problems noted.)

Comment: superstructure/channel units have been replaced by state forces 8/2023 drawings for channel units are in asset file



Asset #03170(Record Change)

SH 38 Log 10.16 over PIGEON ROOST CR.

Location: 1.0 M E OF SH 31 TNT

Team Lead: Anahi Mendez, Inspection Date: 10/18/2023

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
110	Reinforced Concrete Open Girder/Beam	LF	570	570	0	0	0
(110) .channel units replaced 2023 7 units per span and 2 parapet units small golfball sized spalls at various locations							

59 - Superstructure (8 - VERY GOOD CONDITION - no problems noted.)

Comment: Units are bolted and grouted.

superstructure/channel units have been replaced by state forces 8/2023 drawings for channel units are in asset file



Asset #03170(Record Change)

SH 38 Log 10.16 over PIGEON ROOST CR.

Location: 1.0 M E OF SH 31 TNT

Team Lead: Anahi Mendez, Inspection Date: 10/18/2023

Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	72	55	17	0	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
1130	Cracking (RC and Other)	LF	15	0	15	0	0
(215) Bent 1 small patch under unit 3 right leg. Bent 6 has some cracking under unit 6 and a spall under the left leg of unit 5.							
227	Reinforced Concrete Pile	EA	16	0	16	0	0
1190	Abrasion/Wear (PSC/RC)	EA	16	0	16	0	0
(227) All piles have abrasion to the lower section							
234	Reinforced Concrete Pier Cap	LF	124	60	52	12	0
1080	Delamination/Spall/Patched Area	LF	13	0	9	4	0
1120	Efflorescence/Rust Staining	LF	6	0	6	0	0
1130	Cracking (RC and Other)	LF	45	0	37	8	0
(234) caps have had a 1" concrete crown added 2023 caps have had 5" added to the height Bent 2, both ends of the cap have cracking with efflorescence and some scattered cracks in previous repairs. Bent 3 back side has a crack on the right end, on the ahead side, the face is cracked at pile 4 Bent 5 has a horizontal crack on the ahead face, six inches down from the top under units 1,2,3 and 4.							

61 - Channel/Channel Protection (6 - Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly.)

Comment: soundings taken from both sides of bridge



Elevation



Approach looking east



Load posting looking west



Load posting looking east



Upstream



Downstream



Looking west



backwall at bent 1



Guardrail not in place



North side



Bent 1 abutment



Span 1



Span 2



Polymer overlay added



Units are bolted and grouted



Bent 6 abutment



Abrasion to piles



Caps have crown added
5" at ends 6" in the middle



Span 4



Span 5



East approach has settled



Deck view



Asset #03170(Record Change)
SH 38 Log 10.16 over PIGEON ROOST CR.

Location: 1.0 M E OF SH 31 TNT

Team Lead: Anahi Mendez, **Inspection Date:** 10/18/2023

Maintenance Needs

Date Reported: 09/07/2023

Priority: C - Important

Type of Work: Approach Leveling/Maintenance

Status: Forward State

Component: Approach

Deficiency Description

approach roadway at East end of the bridge has settled up to 1 1/2"

Remarks



Approach roadway has settled at the east end of the bridge



Asset #03170(Record Change)

SH 38 Log 10.16 over PIGEON ROOST CR.

Location: 1.0 M E OF SH 31 TNT

Team Lead: Anahi Mendez, **Inspection Date:** 10/18/2023

Maintenance Needs

Date Reported: 09/06/2023

Priority: C - Important

Type of Work: Miscellaneous

Status: Forward State

Component: Miscellaneous

Deficiency Description

approach guardrail needs installed after superstructure replacement

Remarks



Asset #03170(Record Change)

SH 38 Log 10.16 over PIGEON ROOST CR.

Location: 1.0 M E OF SH 31 TNT

Team Lead: Anahi Mendez, **Inspection Date:** 10/18/2023

Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	No
A-55 - Deck Washing Needed	No
A-56 - Joint Cleaning/Flushing Needed	No
A-57 - Beam End and Bearing Paint Needed	No
A-58 - Cap Cleaning/Flushing Needed	No
A-59 - Joint Repair Needed	No
A-60 - Full Beam Painting Needed	No
A-61 - Polymer Overlay Advised	No
A-62 - Hydro and LMC Advised	No
A-63 Missing/Incorrect Log Mile Signage	Yes
A-64 - Vegetation Removal Requested	No



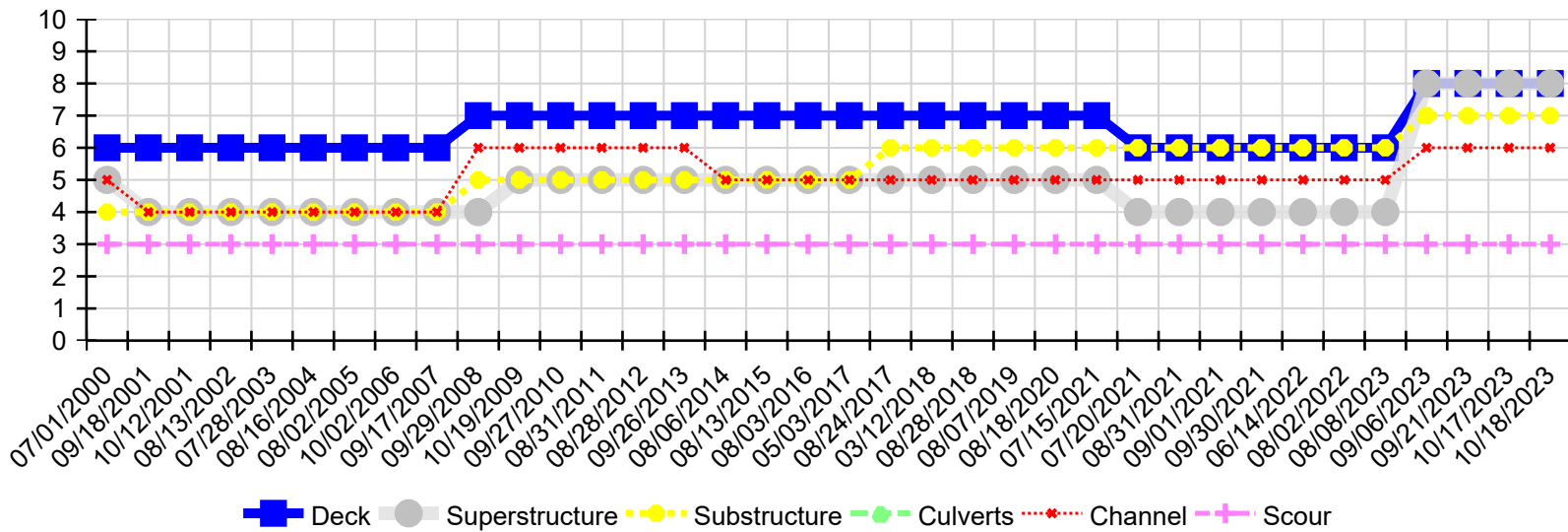
Asset #03170(Record Change)

SH 38 Log 10.16 over PIGEON ROOST CR.

Location: 1.0 M E OF SH 31 TNT

Team Lead: Anahi Mendez, Inspection Date: 10/18/2023

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
10/18/2023	8	8	7	N	6	3
10/17/2023	8	8	7	N	6	3
09/21/2023	8	8	7	N	6	3
09/06/2023	6	4	6	N	5	3
09/06/2023	8	8	7	N	6	3
08/08/2023	6	4	6	N	5	3
08/02/2022	6	4	6	N	5	3
06/14/2022	6	4	6	N	5	3
09/30/2021	6	4	6	N	5	3
09/01/2021	6	4	6	N	5	3
08/31/2021	6	4	6	N	5	3
08/31/2021	6	4	6	N	5	3
07/20/2021	6	4	6	N	5	3
07/15/2021	7	5	6	N	5	3
08/18/2020	7	5	6	N	5	3
08/07/2019	7	5	6	N	5	3
08/28/2018	7	5	6	N	5	3
03/12/2018	7	5	6	N	5	3
08/24/2017	7	5	6	N	5	3
05/03/2017	7	5	5	N	5	3
08/03/2016	7	5	5	N	5	3
08/13/2015	7	5	5	N	5	3
08/06/2014	7	5	5	N	5	3
09/26/2013	7	5	5	N	6	3
08/28/2012	7	5	5	N	6	3
08/31/2011	7	5	5	N	6	3
09/27/2010	7	5	5	N	6	3



Asset #03170(Record Change)

SH 38 Log 10.16 over PIGEON ROOST CR.

Location: 1.0 M E OF SH 31 TNT

Team Lead: Anahi Mendez, Inspection Date: 10/18/2023

Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
10/19/2009	7	5	5	N	6	3
09/29/2008	7	4	5	N	6	3
09/17/2007	6	4	4	N	4	3
10/02/2006	6	4	4	N	4	3
08/02/2005	6	4	4	N	4	3
08/16/2004	6	4	4	N	4	3
07/28/2003	6	4	4	N	4	3
08/13/2002	6	4	4	N	4	3
10/12/2001	6	4	4	N	4	3
09/18/2001	6	4	4	N	4	3
07/01/2000	6	5	4	N	5	3