



Latitude:35.73519, Longitude:-91.83933

Route:14 Section:07 Log:22.155

Arnold Road ID:69x14x7xA, Arnold Log mile:22.003

District 05, 137 - Stone County

Owner: 1 - State Highway Agency

Inspection Direction: 1 - N to S

### 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



35.73519, -91.83933





Asset #06004(Routine, Underwater type 2)

SH 14/Stone County over WOLF BAYOU

Location: .18 MI W INDEP CO LINE

Team Lead: Floyd Haley Inspection Date: 04/09/2024

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	06004
(5) Inventory Route	1
(2) Highway Agency District	05 - District 05
(3) County Code	137 - Stone County
(4) Place Code	0
(6) Features Intersected	WOLF BAYOU
(7) Facility Carried	SH 14/Stone County
(9) Location	.18 MI W INDEP CO LINE
(11) Mile Point	22.155 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000014070
(16) Latitude	35.73519
(17) Longitude	-91.83933
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	32
Material	3 - Steel
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 pl
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1983
(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	1600
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	9 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	54 ft
(49) Structure Length	272 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	34.1 ft
(52) Deck Width Out to Out	36.8 ft
(32) Approach Roadway Width (W/Shoulders)	24 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	34.1 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	6
(59) Superstructure	6
(60) Substructure	5
(61) Channel & Channel Protection	7
(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	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	1 - Inspected feature meets current
(36C) Approach Guardrail	1 - Inspected feature meets current
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	8 - 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	1855
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	04/09/2024		
(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 #06004(Routine, Underwater type 2)

SH 14/Stone County over WOLF BAYOU

Location: .18 MI W INDEP CO LINE

Team Lead: Floyd Haley Inspection Date: 04/09/2024

### General Observation

Elevation with Log Mile running to the Right.

Job Number: 5798

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#### 58 - Deck (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Deck is in overall Satisfactory condition with cracking to deck & efflorescence to Left & Right overhangs

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#### 59 - Superstructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Superstructure is in overall Satisfactory condition with areas of surface rust bottom flanges of all girders. Some girders also have areas of rust & pack rust with s/l to webs below haunches & bottom flanges at the beginning & ends of spans.

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#### 60 - Substructure (5 - FAIR CONDITION - all primary structural elements are sound but may have minor section loss, cracking, spalling or scour.)

Substructure is in overall Fair condition with minor vertical cracking, some having efflorescence to abutments, minor abrasion to columns @ Bent 2 & area of delamination, spalls & a spall with reinforcing steel exposed to cap @ Bent 4.

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#### 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.)

Channel is in overall Good condition with only minor repairs needed.

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#### A-51 - Inspection Direction (1 - N to S)

Roadway with Log Mile running Northwest to Southeast.

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ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	10010	9622	124	264	0
1120	Efflorescence/Rust Staining	SF	24	0	24	0	0
1130	Cracking (RC and Other)	SF	364	0	100	264	0
(12) Deck: Transverse & diagonal cracking @ all spans. Undersurface of deck: A few minor efflorescent cracks to overhangs.							
107	Steel Open Girder/Beam	LF	1340	615	600	125	0
1000	Corrosion	LF	725	0	600	125	0
515	Steel Protective Coating	SF	9474	9399	0	0	75
3440	Effectiveness (Steel Protective Coatings)	LF	75	0	0	0	75
(107) Girders: Light rust to bottom flange of all girders. Rust with minor section loss to web below haunch at ends of girders and to bottom flange of few girders throughout.							
205	Reinforced Concrete Column	EA	8	6	2	0	0
1190	Abrasion/Wear (PSC/RC)	EA	2	0	2	0	0
(205) Bent 2 Columns 1 & 2: Minor abrasion.							
215	Reinforced Concrete Abutment	LF	88	82	6	0	0
1120	Efflorescence/Rust Staining	LF	2	0	2	0	0
1130	Cracking (RC and Other)	LF	4	0	4	0	0
(215) Abutment 1: 4 vertical cracks. CS2. 2 vertical efflorescent cracks to backwall. CS2							
234	Reinforced Concrete Pier Cap	LF	130	122	3	5	0
1080	Delamination/Spall/Patched Area	LF	6	0	2	4	0
1090	Exposed Rebar	LF	1	0	1	0	0
1120	Efflorescence/Rust Staining	LF	1	0	0	1	0
(234) Few minor vertical cracks to caps. Bent 4: 1 rusty crack to cap on Left end. CS3 1' reinforcing steel exposed to ahead side. CS2 2' spall to ahead side. CS3 4' delaminated area to ahead side. CS2							
302	Compression Joint Seal	LF	218	142	15	36	25
2320	Seal Adhesion	LF	31	0	0	6	25
2340	Seal Cracking	LF	45	0	15	30	0
(302) Bent 2 - 25' of Compression joint seal has dropped out and is no longer functioning. Bent 4 - 6' of Joint seal has adhesion failure. Joint seals are cracked at various locations throughout.							

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
311	Movable Bearing	EA	25	5	16	4	0
1000	Corrosion	EA	20	0	16	4	0
515	Steel Protective Coating	SF	50	10	0	0	40
3440	Effectiveness (Steel Protective Coatings)	EA	40	0	0	0	40
(311) Bearings 1 - 4 are rusted and have minor to moderate corrosion at all spans.							
313	Fixed Bearing	EA	25	4	20	1	0
1000	Corrosion	EA	21	0	20	1	0
515	Steel Protective Coating	SF	50	10	0	0	40
3440	Effectiveness (Steel Protective Coatings)	EA	40	0	0	0	40
(313) Fixed Bearings 1 - 4 are rusted and have minor to moderate corrosion at all spans.							
331	Reinforced Concrete Bridge Railing	LF	544	543	1	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
(331) Span 5, Left, Abutment 2: minor spall.							





Elevation.



Typical undersurface.



Typical deck.



Span 3: Channel view.





Left side of Bridge: Channel view.



Right side of Bridge: Channel view.



Inventory.



Span 4: transverse cracking. CS3.





Span 4: transverse cracking. CS3.



Span 2: transverse cracking. CS2.



Span 1: Transverse cracking. CS3.



Span 3, Right overhang: cracking with efflorescence. CS2.





Span 2, Left overhang: cracking with efflorescence. CS2.



Spans 1 - 5, Girders: scattered areas of surface corrosion. CS2.



Span 5, Bent 4, Girders 1 & 2: active corrosion with flaking rust. CS3.



Span 2, Girders 2 - 4, Bent 2: active corrosion with flaking rust. CS3.





Span 2, Girders 1 - 4, Bent 1: active corrosion with flaking rust near girder ends. Girder 1: flaking rust along bottom flange to first diaphragm. CS3



Span 1, Girder 2, Bent 1: active corrosion with flaking rust. CS3.



Span 1, Girder 2: active corrosion with flaking rust. CS3. 10'.



Span 1, Girder 2: surface corrosion. CS2.





Joint at Abutment 1: seal cracking.



Joint at Bent 2: adhesion failure. CS3. Joint at Bent 4: adhesion failure. CS2.



Span 5, Bent 4, Bearings 1 - 4: active corrosion with pack rust. CS3.



Span 1, Abutment 1, Bearing 3: active corrosion with pack rust. CS3.





Bent 2, Columns 1 & 2: minor abrasion. CS2.



Bent 4, Ahead, adjacent to Girder 3: spalling with exposed reinforcing steel with no section loss and delaminated.

**Maintenance Needs**

**Date Reported:** 04/18/2016

**Priority:** C - Important

**Type of Work:** Joint Repair

**Status:** Assigned

**Component:** Deck

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**Deficiency Description**

25' of Compression joint seal @ Bent 2 has dropped out and is no longer functioning.

**Remarks**

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25' of Compression joint seal @ Bent 2 has dropped out and is no longer functioning.



25' of Compression joint seal @ Bent 2 has dropped out and is no longer functioning.



**Maintenance Needs**

**Date Reported:** 04/09/2024

**Priority:** D- Routine

**Type of Work:** Approach Leveling/Maintenance

**Status:** Open

**Component:** Approach

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**Deficiency Description**

Abutment 1, Left, Approach Gutter: 3' undermining.

**Remarks**

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Abutment 1, Left, Approach Gutter: 3' undermining.





**Asset #06004**(Routine, Underwater type 2)

**SH 14/Stone County over WOLF BAYOU**

**Location: .18 MI W INDEP CO LINE**

**Team Lead: Floyd Haley Inspection Date: 04/09/2024**

**Maintenance Needs**

**Date Reported:** 04/09/2024

**Priority:** D- Routine

**Status:** Open

**Type of Work:** Approach Leveling/Maintenance

**Component:** Approach

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**Deficiency Description**

Abutment 1, Left Approach Railing, 5th post from beginning of railing: broken.

**Remarks**

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Abutment 1, Left Approach Railing, 5th post from beginning of railing: broken.



**Asset #06004**(Routine, Underwater type 2)

**SH 14/Stone County over WOLF BAYOU**

**Location: .18 MI W INDEP CO LINE**

**Team Lead: Floyd Haley Inspection Date: 04/09/2024**

## **Routine Maintenance**

Check Box Maintenance Items

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

**A-54 - Sealable Deck Cracks (Yes)**

**A-55 - Deck Washing Needed (No)**

**A-56 - Joint Cleaning/Flushing Needed (Yes)**



**Asset #06004**(Routine, Underwater type 2)

**SH 14/Stone County over WOLF BAYOU**

**Location: .18 MI W INDEP CO LINE**

**Team Lead: Floyd Haley Inspection Date: 04/09/2024**

**A-57 - Beam End and Bearing Painting Needed (Yes)**

**A-58 - Cap Cleaning/Flushing Needed (No)**

**A-59 - Joint Repair Needed (Yes)**

**A-60 - Full Beam Painting Needed (Yes)**

**A-61 - Polymer Overlay Advised (Yes)**

**A-62 - Hydro and LMC Advised (No)**

**A-63 - Missing/Incorrect Log Mile Signage (No)**

**A-64 - Vegetation Removal Requested (No)**



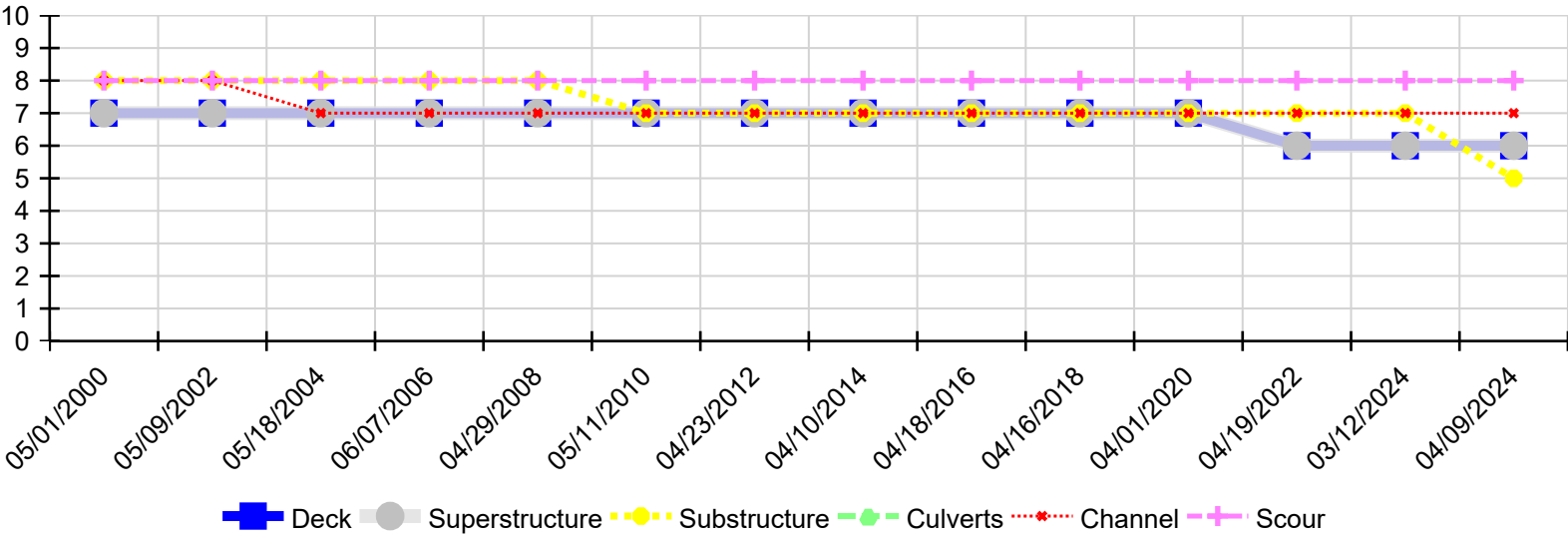
Asset #06004(Routine, Underwater type 2)

SH 14/Stone County over WOLF BAYOU

Location: .18 MI W INDEP CO LINE

Team Lead: Floyd Haley Inspection Date: 04/09/2024

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
04/09/2024	6	6	5	N	7	8
03/12/2024	6	6	7	N	7	8
04/19/2022	6	6	7	N	7	8
04/01/2020	7	7	7	N	7	8
04/16/2018	7	7	7	N	7	8
04/18/2016	7	7	7	N	7	8
04/10/2014	7	7	7	N	7	8
04/23/2012	7	7	7	N	7	8
05/11/2010	7	7	7	N	7	8
04/29/2008	7	7	8	N	7	8
06/07/2006	7	7	8	N	7	8
05/18/2004	7	7	8	N	7	8
05/09/2002	7	7	8	N	8	8
05/01/2000	7	7	8	N	8	8