



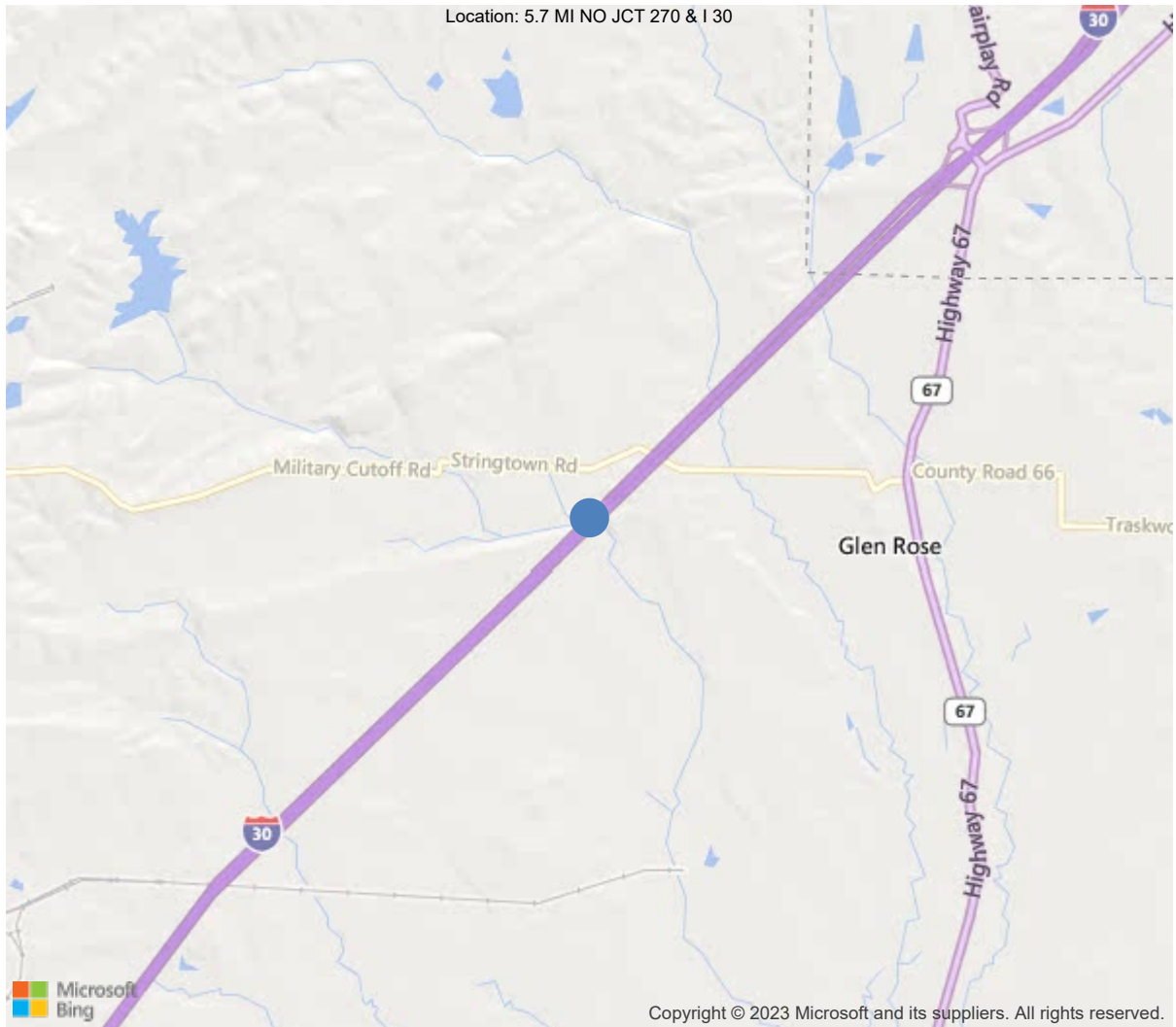
Latitude:34.45597, Longitude:-92.75800

Route:30 Section:21 Log:103.69

Arnold Road ID:30x30x21xB, Arnold Log mile:39.275

District 06, 59 - Hot Spring County

Owner: 1 - State Highway Agency



34.45597, -92.75800



Asset #A3430(Routine, Underwater type 2)

I-30 WB Log 103.69 over RAYBURN CREEK

Location: 5.7 MI NO JCT 270 & I 30

Team Lead: Shane Byrd, Inspection Date: 02/14/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	A3430
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	59 - Hot Spring County
(4) Place Code	0
(6) Features Intersected	RAYBURN CREEK
(7) Facility Carried	I-30 WB Log 103.69
(9) Location	5.7 MI NO JCT 270 & I 30
(11) Mile Point	103.69 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000030210
(16) Latitude	34.455971
(17) Longitude	-92.758003
(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	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	1 - Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	1964
(106) Year Reconstructed	2000
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	18000
(30) Year of ADT	2018
(109) Truck ADT	45 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	59 ft
(49) Structure Length	238 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	39.7 ft
(52) Deck Width Out to Out	43 ft
(32) Approach Roadway Width (W/Shoulders)	38.1 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	39.7 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	0 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	1
(26) Functional Class	1 - Rural Principal Arterial -
(100) Defense Highway	1 - The inventory route is on
(101) Parallel Structure	L - The left structure of para
(102) Direction of Traffic	1 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0 - N/A
(110) Designated National Network	1 - The inventory route is par
(20) Toll	3 - On free road. The structu
(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	7
(60) Substructure	7
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	6 - MS 18+Mod / HS 20+Mod
(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	7
(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	31 - Replacement of bridge or
(76) Length of Structure Improvement	272 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 247
(96) Total Project Cost	\$ 1022
(97) Year of Improvement Cost Estimate	1999
(114) Future ADT	20053
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	02/14/2022		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
* 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 **#A3430**(Routine, Underwater type 2)

**District:** 06, **County:** 59 - Hot Spring County

**Team Lead:** Shane Byrd, **Inspection Date:** 02/14/2022

**General Observation**

job 060591 dwg 38971

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**A-46 - Asset Files**

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I-30 WB Log 103.69 over RAYBURN CREEK

Location: 5.7 MI NO JCT 270 & I 30

Team Lead: Shane Byrd, Inspection Date: 02/14/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	10234	7381	403	2450	0
1080	Delamination/Spall/Patched Area	SF	1	0	1	0	0
1120	Efflorescence/Rust Staining	SF	52	0	52	0	0
1130	Cracking (RC and Other)	SF	2800	0	350	2450	0
(12) Span 1 has a small spall. All spans have longitudinal and transverse cracking. 0.050 inch avg. Scattered cracks with efflorescence on the soffit overhangs.							
107	Steel Open Girder/Beam	LF	1416	1416	0	0	0
515	Steel Protective Coating	SF	11540	0	11540	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	11540	0	11540	0	0
(107) All beams are dark brown with a granular texture.							
205	Reinforced Concrete Column	EA	12	7	3	2	0
1080	Delamination/Spall/Patched Area	EA	3	0	1	2	0
1190	Abrasion/Wear (PSC/RC)	EA	2	0	2	0	0
(205) Bent 2, columns 2 & 3 have delams below the cap. Column 4 has small spalls and abrasion at the water line							
210	Reinforced Concrete Pier Wall	LF	44	44	0	0	0
215	Reinforced Concrete Abutment	LF	84	69	15	0	0
1120	Efflorescence/Rust Staining	LF	8	0	8	0	0
1130	Cracking (RC and Other)	LF	7	0	7	0	0
(215) small vertical cracks in the face of both abutments Cracks with efflorescence in the back wall of bent 1.							
234	Reinforced Concrete Pier Cap	LF	123	123	0	0	0
302	Compression Joint Seal	LF	80	0	40	40	0
2320	Seal Adhesion	LF	40	0	40	0	0
7000	Damage	LF	40	0	0	40	0
(302) The seal at bent 1 has lost bond and leaks. The joint armor at bent 5 is loose and broken in both lanes							
310	Elastomeric Bearing	EA	30	30	0	0	0
321	Reinforced Concrete Approach Slab	SF	2000	1910	90	0	0
1130	Cracking (RC and Other)	SF	90	0	90	0	0
331	Reinforced Concrete Bridge Railing	LF	472	426	46	0	0
1130	Cracking (RC and Other)	LF	46	0	46	0	0

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
	(331) Cracks in both bridge rails						





**Location: 5.7 MI NO JCT 270 & I 30**

**Team Lead:** Shane Byrd, **Inspection Date:** 02/14/2022

## Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	1416	1416	0	0	0
515	Steel Protective Coating	SF	11540	0	11540	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	11540	0	11540	0	0
(107) All beams are dark brown with a granular texture.							



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Team Lead: Shane Byrd, Inspection Date: 02/14/2022

## Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	12	7	3	2	0
1080	Delamination/Spall/Patched Area	EA	3	0	1	2	0
1190	Abrasion/Wear (PSC/RC)	EA	2	0	2	0	0
(205) Bent 2, columns 2 & 3 have delams below the cap. Column 4 has small spalls and abrasion at the water line							
210	Reinforced Concrete Pier Wall	LF	44	44	0	0	0
215	Reinforced Concrete Abutment	LF	84	69	15	0	0
1120	Efflorescence/Rust Staining	LF	8	0	8	0	0
1130	Cracking (RC and Other)	LF	7	0	7	0	0
(215) small vertical cracks in the face of both abutments Cracks with efflorescence in the back wall of bent 1.							
234	Reinforced Concrete Pier Cap	LF	123	123	0	0	0



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## Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4





Elevation.



Elevation.



Deck overview.



Approach westbound.



Span 4 deck large transverse cracks.



Span 2 large longitudinal and transverse cracks.



Cracks with efflorescence in soffit overhang common all spans both sides.



Cracks with efflorescence in soffit overhang common all spans both sides.





Bent 2 column 2 delam on back side.



Bent 2 column 3 delam on ahead side.



Small vertical cracks in abutment at bent 5.



Cracks with efflorescence in back wall at bent 1.





Joint armor at bent 5 loose under traffic.



Bent 1 joint armor has two foot of armor missing.

**Maintenance Needs**

**Date Reported:** 02/29/2016

**Priority:** C - Important

**Type of Work:** Repair (General)

**Status:** Monitor

**Component:** Deck

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**Deficiency Description**

All spans have unsealed longitudinal and transverse cracks. 0.050 inch avg. width.

**Remarks**

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Span 4 deck large transverse cracks.



Transverse cracks in span 3.





Span 3 longitudinal and transverse cracks up to 0.050"



Span 3 longitudinal and transverse cracks up to 0.050"



**Maintenance Needs**

**Date Reported:** 02/29/2016

**Priority:** C - Important

**Type of Work:** Repair (General)

**Status:** Monitor

**Component:** Element

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**Deficiency Description**

The joint armor is broken and loose at bent 5.

**Remarks**

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Joint armor at bent 5 loose under traffic.



The joint armor is loose at bent 5.

**Maintenance Needs**

**Date Reported:** 02/25/2020

**Priority:** C - Important

**Type of Work:** (Inactive) (Inactive) 1 - Clean

**Status:** Assigned

**Component:** Element

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**Deficiency Description**

vines growing on columns at bent 3 and 4

**Remarks**

some trees and brush have been removed but there are still large vines growing on the columns and on the caps

Assigned to Hot Spring County 7/20/2020

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Vines growing at bent 4



Vines growing at Bent 4.



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**Team Lead: Shane Byrd, Inspection Date: 02/14/2022**

## **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	



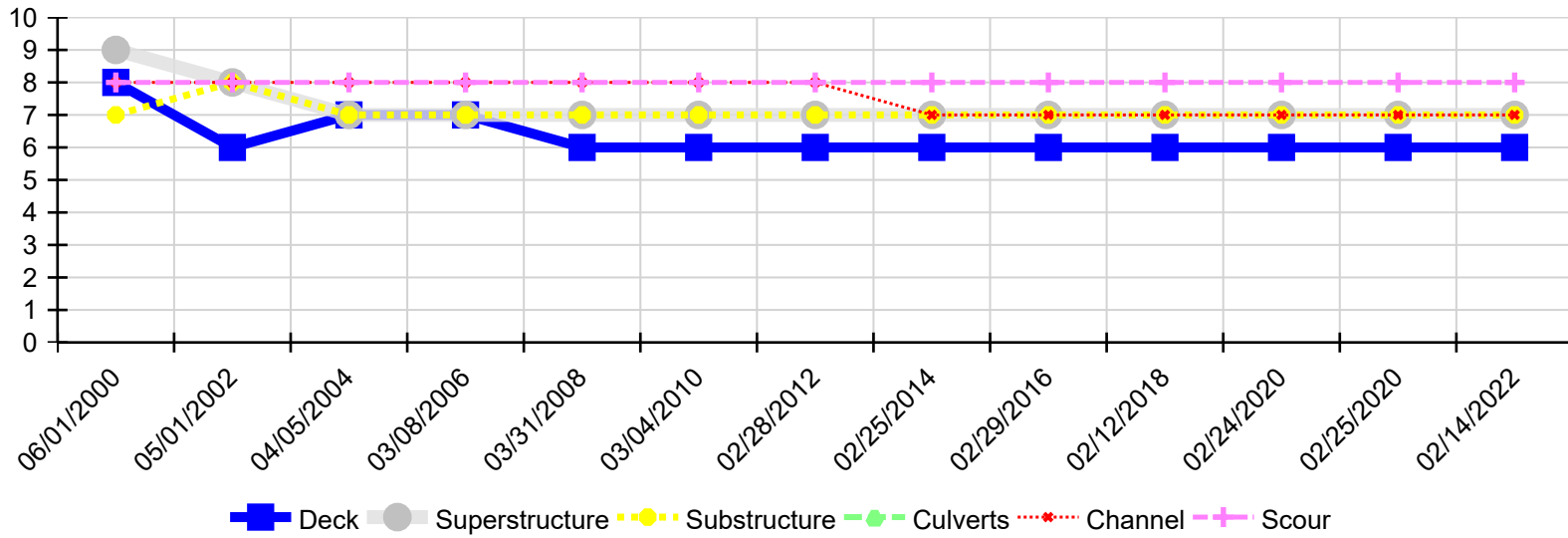
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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
02/14/2022	6	7	7	N	7	8
02/25/2020	6	7	7	N	7	8
02/24/2020	6	7	7	N	7	8
02/12/2018	6	7	7	N	7	8
02/29/2016	6	7	7	N	7	8
02/25/2014	6	7	7	N	7	8
02/28/2012	6	7	7	N	8	8
03/04/2010	6	7	7	N	8	8
03/31/2008	6	7	7	N	8	8
03/08/2006	7	7	7	N	8	8
04/05/2004	7	7	7	N	8	8
05/01/2002	6	8	8	N	8	8
06/01/2000	8	9	7	N	8	8