

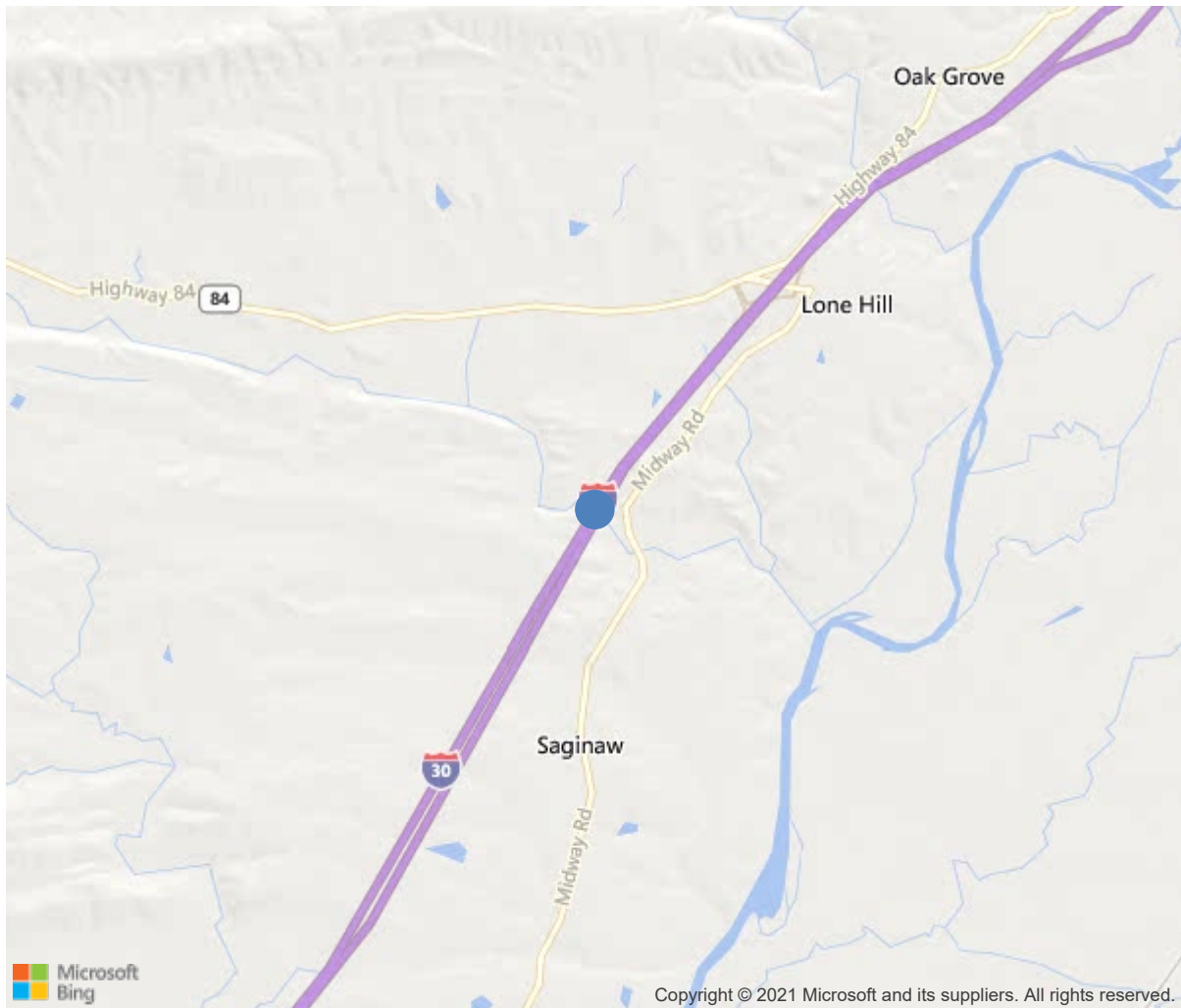


**Bridge #A3941 (Routine)**  
**I-30 WB log 89.65 over PRAIRIE BAYOU**  
**Location: 8.35 MI SW OF SH 270**  
**Team Lead: Shane Byrd Inspection Date: July 14, 2020**



Latitude:34.31703, Longitude:-92.93487  
Route:30 Section:21 Log:89.65  
Arnold Road ID:30x30x21xB, Arnold Log mile:53.318  
District 06, Hot Spring County  
Owner: 1-State Highway Agency

8.35 MI SW OF SH 270



34.31703, -92.93487



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	A3941
(5) Inventory Route	30
(2) Highway Agency District	06
(3) County Code	59-Hot Spring County, Arkansas
(4) Place Code	0
(6) Features Intersected	PRAIRIE BAYOU
(7) Facility Carried	I-30 WB log 89.65
(9) Location	8.35 MI SW OF SH 270
(11) Mile Point	89.65 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000030210
(16) Latitude	34.317032
(17) Longitude	-92.934868
(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	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 placed
Type of Membrane	0-None
Type of Deck Protection	1-Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	1966
(106) Year Reconstructed	2001
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	45211
(30) Year of ADT	2014
(109) Truck ADT	45 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	56 ft
(49) Structure Length	282 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	40 ft
(52) Deck Width Out to Out	42.8 ft
(32) Approach Roadway Width (W/Shoulders)	40 ft
(33) Bridge Median	0-No median
(34) Skew	20 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	41 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 water
(111) Pier Protection	1-Navigation protection not requ
(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 - Int
(100) Defense Highway	1-The inventory route is on a In
(101) Parallel Structure	L-The left structure of parallel
(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 part of the
(20) Toll	3-On free road. The structure is toll-
(21) Maintain	1-State Highway Agency
(22) Owner	1-State Highway Agency
(37) Historical Significance	5-Bridge is not eligible for the NRHP
CONDITION	
(58) Deck	6
(59) Superstructure	8
(60) Substructure	8
(61) Channel & Channel Protection	8
(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	5
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	8
(68) Deck Geometry	7
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1-Inspected feature meets currently a
(36B) Transitions	1-Inspected feature meets currently a
(36C) Approach Guardrail	1-Inspected feature meets currently a
(36D) Approach Guardrail Ends	1-Inspected feature meets currently a
(113) Scour Critical Bridges	8-Bridge foundations determined to be
PROPOSED IMPROVEMENTS	
(75) Type of Work	Replacement of bridge or other
(76) Length of Structure Improvement	318 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 247
(96) Total Project Cost	\$ 1143
(97) Year of Improvement Cost Estimate	2000
(114) Future ADT	16818
(115) Year of Future ADT	2028
INSPECTIONS	
(90) Inspection Date	07/2020
(91) Frequency	24 Months
(92) Critical Feature Inspection	Done Freq. (Mon) Date
A: Fracture Critical Detail	No
B: Underwater Inspection	No
C: Other Special Inspection	No



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	12078	7794	3878	406	0
1120	Efflorescence/Rust Staining	SF	240	0	240	0	0
1130	Cracking (RC and Other)	SF	4044	0	3638	406	0
(12)	All spans have transverse cracks and longitudinal cracks that parallel the top flanges of the girders. Soffits have cracks with efflorescence.						
107	Steel Open Girder/Beam	LF	1680	1644	36	0	0
1000	Corrosion	LF	36	0	36	0	0
515	Steel Protective Coating	SF	13692	13399	293	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	SF	293	0	293	0	0
(107)	Beam ends at bent 1 and 6 have minor rust on bottom flange and lower web.						
205	Reinforced Concrete Column	EA	16	11	5	0	0
1130	Cracking (RC and Other)	EA	2	0	2	0	0
1190	Abrasion/Wear (PSC/RC)	EA	3	0	3	0	0
(205)	Bents 3 & 4, the original columns have abrasion at the bottom , bent 5 column 2 is cracked.						
210	Reinforced Concrete Pier Wall	LF	32	32	0	0	0
(210)	No apparent noteworthy defects at this inspection.						
215	Reinforced Concrete Abutment	LF	130	110	20	0	0
1120	Efflorescence/Rust Staining	LF	20	0	20	0	0
(215)	Cracks with efflorescence in both abutments.						
234	Reinforced Concrete Pier Cap	LF	176	175	1	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
(234)	Bent 4, right end of the cap, has a small delam.						
302	Compression Joint Seal	LF	87	0	87	0	0
2310	Leakage	LF	43	0	43	0	0
2320	Seal Adhesion	LF	44	0	44	0	0

**Team Lead:** Shane Byrd, **Inspection Date:** July 14, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(302)	The seals at both abutments have adhesion loss and leaks.						
310	Elastomeric Bearing	EA	36	36	0	0	0
(310)	No apparent noteworthy defects at this inspection.						
321	Reinforced Concrete Approach Slab	SF	1752	1669	62	21	0
1080	Delamination/Spall/Patched Area	SF	2	0	2	0	0
1130	Cracking (RC and Other)	SF	81	0	60	21	0
(321)	7/18/2018 - KRM & RLS - Both approach have longitude/diagonal cracks, east approach has a small spall in right lane and large diagonal crack in left lane.						
331	Reinforced Concrete Bridge Railing	LF	565	483	82	0	0
1130	Cracking (RC and Other)	LF	82	0	82	0	0
(331)	Random vertical cracks in both rails.						



Approach looking Westbound.



Deck overview.



Span 3 left side soffit overhang has cracks with efflorescence.



Bent 3 columns have abrasion, common bent 4.



Bent 6 abutment has cracks with efflorescence in the back wall.



Span 1 has transverse cracks in the deck.



Span 3 deck has longitudinal and transverse cracks in the deck.



Span 1 beam 4 has small flakes of rust on the bottom flange.



East approach slab has large unsealed longitudinal crack.

**Maintenance Needs**

**Date Reported:** 07/24/2014  
**Priority:** C - Important  
**Type of Work:** N/A  
**Status:** Monitor  
**Component:**

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**Deficiency Description**

Deck all spans unsealed transverse and longitudinal cracking, 0.025 to 0.035 inch width.

**Remarks**

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Span 2 transverse cracks.



Large longitudinal crack east approach left lane.



Span 1 has transverse cracks in the deck.



Span 3 deck has longitudinal and transverse cracks in the deck.



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Location: 8.35 MI SW OF SH 270

Team Lead: Shane Byrd Inspection Date: July 14, 2020

Date Reported: 07/12/2016

Priority: D- Routine

Type of Work: N/A

Status: Assigned

Component:

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### Deficiency Description

The left and right edge stripes are worn off and not visible. Photo attached

### Remarks

Assigned Hot Springs 06301 10/31/18

State forces have place new edge stripes. See photo.

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Striping on inside and outside lanes are missing.



The left and right edge stripes are worn off and not visible.



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State forces have repainted the white and yellow lines on bridge.



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**Team Lead:** Shane Byrd **Inspection Date:** July 14, 2020

**Date Reported:** 07/14/2020  
**Priority:** C - Important  
**Type of Work:** Clean  
**Status:** Open  
**Component:**

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#### Deficiency Description

Trees and vines growing on and under bridge, all spans.

#### Remarks

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Span 1 has trees and vines growing on and under bridge.



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### **Inspection Comments**

Job #B60115, Drawing #39809 for layout.

Snooper used 7/14/16.

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### **Substructure Notes**

7/18/2018- KRM & RLS - Channel profile taken. A Microsoft sketch and Word document with measurements is attached to the "Sketch" tab.