



Latitude:34.31685, Longitude:-92.93469

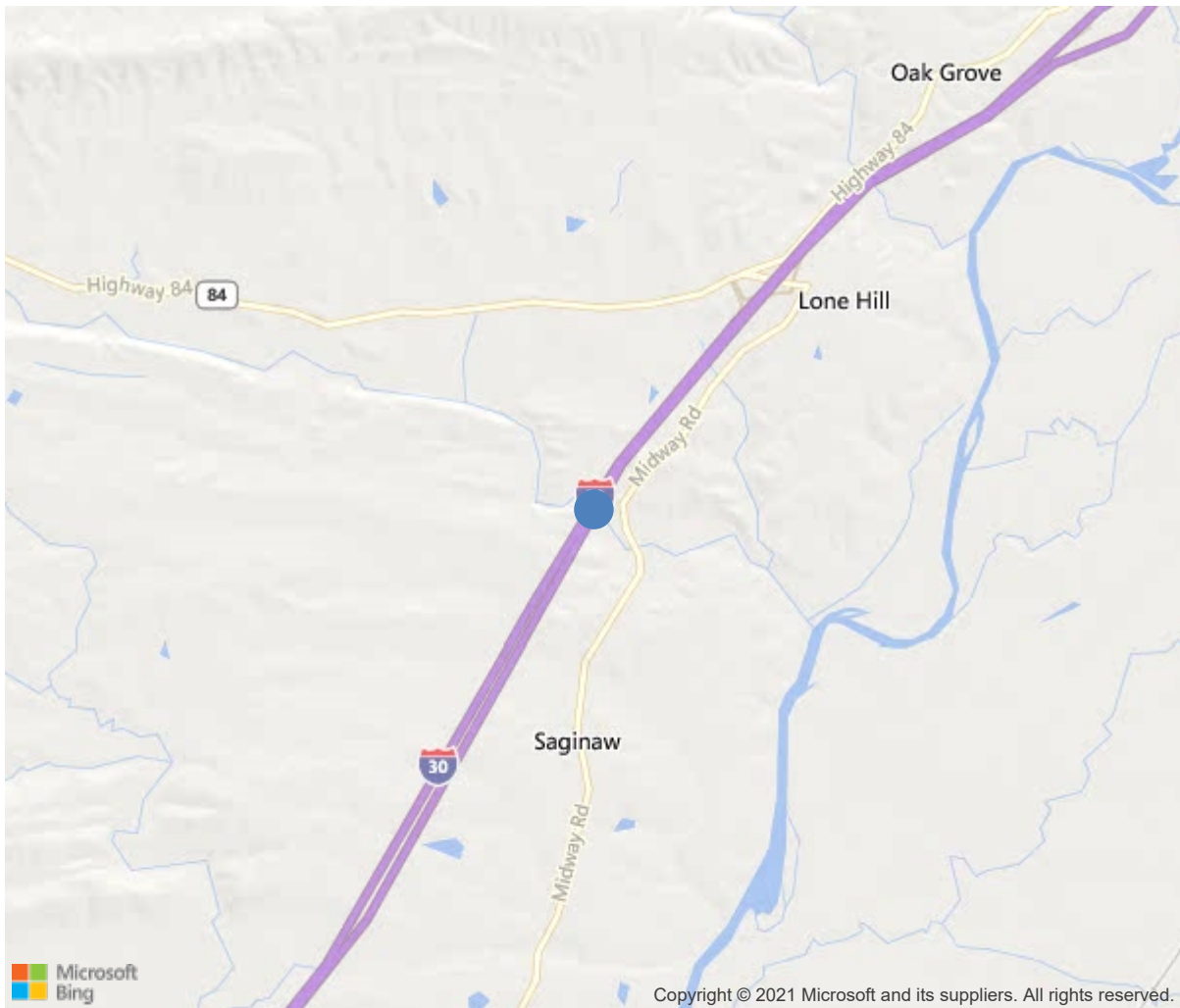
Route:30 Section:21 Log:89.631

Arnold Road ID:30x30x21xA, Arnold Log mile:89.6

District 06, Hot Spring County

Owner: 1-State Highway Agency

8.35 MI SW OF SH 270



34.31685, -92.93469



Bridge #B3941 (Routine)
I-30 EB Log 89.63 over PRAIRIE BAYOU
Location: 8.35 MI SW OF SH 270

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

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	B3941
(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 EB Log 89.63
(9) Location	8.35 MI SW OF SH 270
(11) Mile Point	89.631 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000030210
(16) Latitude	34.316853
(17) Longitude	-92.934685
(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	2002
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	30000
(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	R-The right structure of paralle
(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	7
(59) Superstructure	7
(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	7
(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	10652	1426	0	0
1120	Efflorescence/Rust Staining	SF	98	0	98	0	0
1130	Cracking (RC and Other)	SF	1328	0	1328	0	0
(12)	All spans have transverse cracking and longitudinal cracks that parallel the flanges of the girders, Soffits have cracks with efflorescence.						
107	Steel Open Girder/Beam	LF	1680	1654	26	0	0
1000	Corrosion	LF	26	0	26	0	0
515	Steel Protective Coating	SF	13692	13480	212	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	SF	212	0	212	0	0
(107)	Beam ends at 1 and 6 have light rust on bottom flanges and lower webs.						
205	Reinforced Concrete Column	EA	16	11	5	0	0
1090	Exposed Rebar	EA	1	0	1	0	0
1190	Abrasion/Wear (PSC/RC)	EA	4	0	4	0	0
(205)	Bent 2, column 3 has one small exposed rebar on the back side, Bents 3 & 4, columns 2 & 3 have abrasion at the bottom.						
210	Reinforced Concrete Pier Wall	LF	32	22	10	0	0
1130	Cracking (RC and Other)	LF	10	0	10	0	0
(210)	Bent 3 pier wall has 10' of horizontal crack.						
215	Reinforced Concrete Abutment	LF	130	121	9	0	0
1120	Efflorescence/Rust Staining	LF	6	0	6	0	0
1130	Cracking (RC and Other)	LF	3	0	3	0	0
(215)	7/18/2018 - KRM & RLS - Both abutments have vertical cracks and cracks with efflorescence.						
234	Reinforced Concrete Pier Cap	LF	176	176	0	0	0
(234)	No apparent noteworthy defects at this inspection.						
302	Compression Joint Seal	LF	87	44	43	0	0

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

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
2320 (302)	Seal Adhesion	LF	43	0	43	0	0
The seal at bent 1 has adhesion loss and leak.							
310 (310)	Elastomeric Bearing	EA	36	36	0	0	0
No apparent noteworthy defects at this inspection.							
321	Reinforced Concrete Approach Slab	SF	1752	1750	0	2	0
1080 (321)	Delamination/Spall/Patched Area	SF	2	0	0	2	0
.							
331	Reinforced Concrete Bridge Railing	LF	565	445	120	0	0
1080	Delamination/Spall/Patched Area	LF	10	0	10	0	0
1130 (331)	Cracking (RC and Other)	LF	110	0	110	0	0
Spalls in the top of the left rail in spans 1 and 2. Random vertical cracks in both rails.							



Deck overview.



Bent 1 abutment has cracks with efflorescence in the back wall.



Span 4 left side soffit overhang has cracks with efflorescence.



Approach Eastbound.



Span 1 has longitudinal cracks in the deck.



Bent 3 column 3 has abrasion at the bottom of column, common bent 4 columns.

Maintenance Needs

Date Reported: 07/12/2016
Priority: D- Routine
Type of Work: N/A
Status: Assigned
Component:

Deficiency Description

The edge stripes on the bridge are worn and not visible. Photo attached.

Remarks

Assigned Hot Springs 06301 10/31/18
State forces have placed new edge stripes. See photo.



Both edge stripes on the bridge are worn and not visible.



Both edge stripes on the bridge are worn and not visible.



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State forces have repainted white and yellow lines
on bridge.

Date Reported: 07/18/2018
Priority: C - Important
Type of Work: None
Status: Assigned
Component:

Deficiency Description

Large spall in west approach right lane.

Remarks

Assigned Hot Springs 06301 10/31/18
State forces have patched pot hole with asphalt.



Large spall at the west approach right lane.



State forces have patch spall in West approach slab.

Date Reported: 07/18/2018
Priority: D- Routine
Type of Work: None
Status: Assigned
Component:

Deficiency Description

Vines growing in columns, caps and soffit at bents 2, 4 and 5. Small trees growing under the bridge in span 5.

Remarks

Assigned Hot Springs 06301 10/31/18



Span 5, bent 5, small trees growing under the bridge, vines growing on columns and cap.



Bent 4, vines growing on columns and cap.



Bent 2, vines growing on column 1, cap and soffit.



Bent 2 has vines and trees growing under and against bridge.



Bent 4 has vines growing on all columns under bridge.



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Inspection Comments

7/18/2018 - Snooper broke down, spans 2 thru 4 were inspected using binoculars to finish inspection. Job #B60115, Drawing #39809 for layout.

Snooper used 7/14/16.

Substructure Notes

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