



Latitude:36.13892, Longitude:-90.41986

Route:49 Section:02 Log:9.21

Arnold Road ID:28x49x2xA, Arnold Log mile:9.207

District 10, Greene County

Owner: 1-State Highway Agency

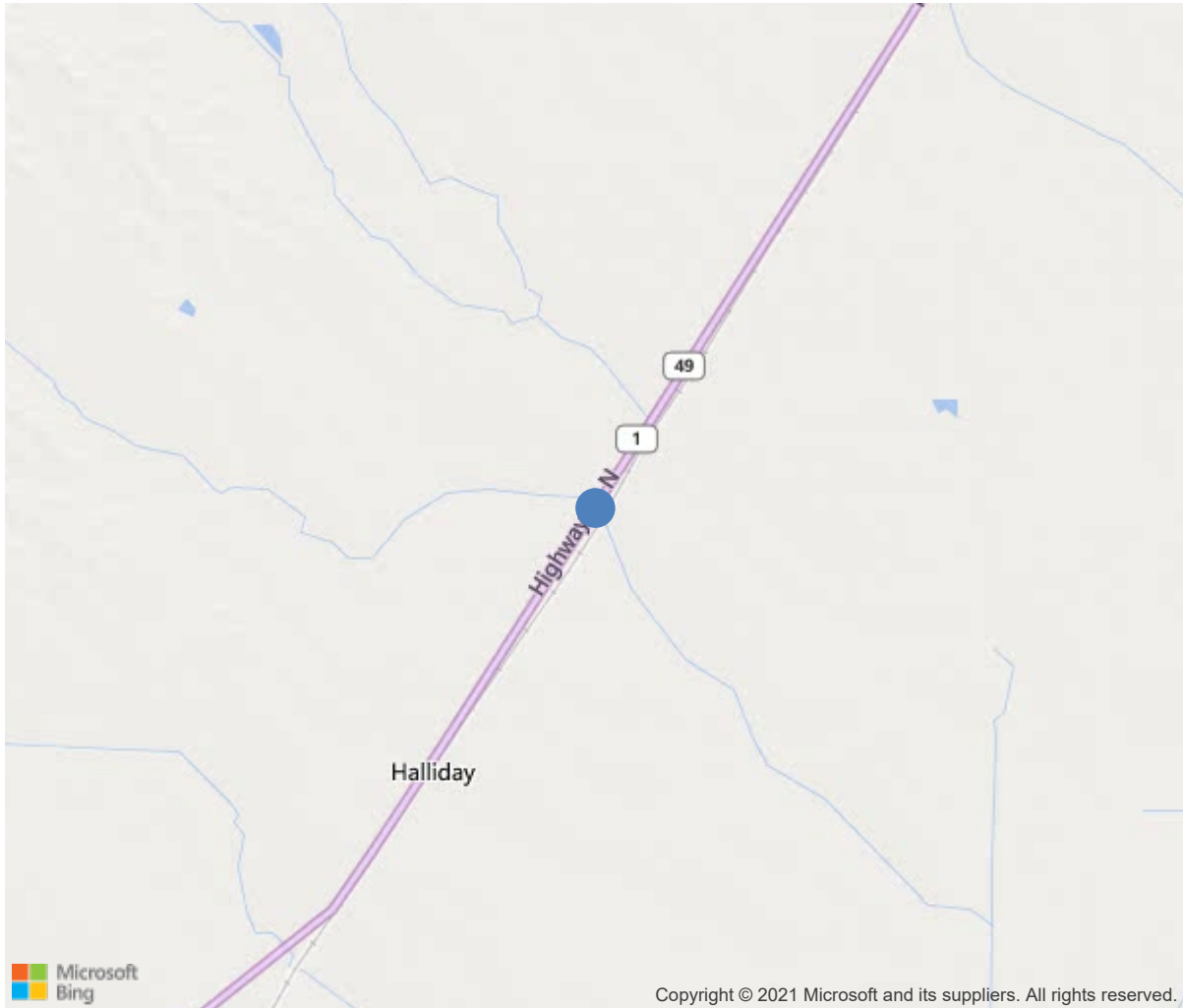


Bridge #03083(Routine)
US 49-02- LM 9.21 over HENDERSON CREEK

Location: 7.59 N JCT US 412

Team Lead: James Adams Inspection Date: November 19, 2020

7.59 N JCT US 412



36.13892, -90.41986



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03083
(5) Inventory Route	49
(2) Highway Agency District	10
(3) County Code	55-Greene County, Arkansas
(4) Place Code	0
(6) Features Intersected	HENDERSON CREEK
(7) Facility Carried	US 49-02- LM 9.21
(9) Location	7.59 N JCT US 412
(11) Mile Point	9.21 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000049020
(16) Latitude	36.138923546875
(17) Longitude	-90.4198603559865
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	11
Material	1-Concrete
Type	1-Slab
(44) Approach Structure Type	00
Material	0-Other
Type	0-Other
(45) No. of Spans in Main Unit	3
(46) No. of Approach Spans	0
(107) Deck Structure Type	1-Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	6-Bituminous
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1961
(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	6000
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	2 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	75 ft
(50) Curb or Sidewalk Width	
Left	1.4 ft
Right	1.4 ft
(51) Bridge Roadway Width Curb to Curb	27.9 ft
(52) Deck Width Out to Out	31.5 ft
(32) Approach Roadway Width (W/Shoulders)	44 ft
(33) Bridge Median	0-No median
(34) Skew	0 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	30.8 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 water
(111) Pier Protection	5-None present but re-evaluation
(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 a S
(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	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	7
(61) Channel & Channel Protection	5
(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	45
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	3
Rating	27
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	6
(68) Deck Geometry	2
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0-Inspected feature does not meet cur
(36B) Transitions	0-Inspected feature does not meet cur
(36C) Approach Guardrail	0-Inspected feature does not meet cur
(36D) Approach Guardrail Ends	0-Inspected feature does not meet cur
(113) Scour Critical Bridges	5-Bridge foundations determined to be
PROPOSED IMPROVEMENTS	
(75) Type of Work	Replacement of bridge or other
(76) Length of Structure Improvement	101 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 265
(96) Total Project Cost	\$ 681
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	6960
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			11/2020
(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		
* 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.			



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	2363	2261	101	1	0
1080	Delamination/Spall/Patched Area	SF	2	0	1	1	0
1120	Efflorescence/Rust Staining	SF	25	0	25	0	0
1130	Cracking (RC and Other)	SF	75	0	75	0	0
510	Wearing Surfaces	SF	2100	1913	0	187	0
3220	Crack (Wearing Surface)	SF	187	0	0	187	0
215	Reinforced Concrete Abutment	LF	80	68	1	11	0
6000	Scour	LF	12	0	1	11	0
227	Reinforced Concrete Pile	EA	10	10	0	0	0
234	Reinforced Concrete Pier Cap	LF	65	55	10	0	0
1080	Delamination/Spall/Patched Area	LF	7	0	7	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	2	0	2	0	0
301	Pourable Joint Seal	LF	56	56	0	0	0
330	Metal Bridge Railing	LF	150	150	0	0	0
515	Steel Protective Coating	SF	510	510	0	0	0
3440	Effectiveness (Steel Protective Coatings)	SF	510	510	0	0	0



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Maintenance Needs

Date Reported: 01/03/2011
Priority: G - General/ Preventive maintenance
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Slab soffit has a few small spalled and delaminated areas and a longitudinal crack near center line with some efflorescence.

Remarks

Date Reported: 01/03/2011
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Channel

Deficiency Description

Bent 4 scour repair is beginning to undermine on left end, 1 ft. below & 1 ft. back under near centerline.
Embankment is eroded under and adjacent to bridge near bent 4 upstream side.
Very little berm remaining at bent 4.

Remarks



Bent 4 embankment



Bent 4 erosion 2020



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Date Reported: 01/03/2011
Priority: G - General/ Preventive maintenance
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Caps have a few minor cracks, spalls, and delaminated areas.

Remarks



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Team Lead: James Adams Inspection Date: November 19, 2020

Date Reported: 11/19/2020
Priority: D- Routine
Type of Work: Repair
Status: Open
Component: Deck

Deficiency Description

Asphalt wearing surface has several cracks.

Remarks

Team Lead: James Adams **Inspection Date:** November 19, 2020

Date Reported: 11/19/2020
Priority: C - Important
Type of Work: Clean
Status: Open
Component: Channel

Deficiency Description

Large tree under span 2 & 3.

Remarks



Drift span 2&3



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Inspection Comments

-

Deck Notes

Asphalt wearing surface has several cracks.

Superstructure Notes

Soffit portion of slab has a few small spalled and delaminated areas and a longitudinal crack near center line with some efflorescence.

Substructure Notes

Scour repaired at bent 1 some time in the past. Caps have a few minor cracks, spalls, and delaminated areas. Bent 4 scour repair is beginning to undermine on Lt end. Embankment is eroded under and adjacent to bridge near bent 4.