



Latitude:35.66038, Longitude:-90.65947

Route:163 Section:04 Log:8.83

Arnold Road ID:56x163x4xA, Arnold Log mile:8.734

District 10, Poinsett County

Owner: 1-State Highway Agency



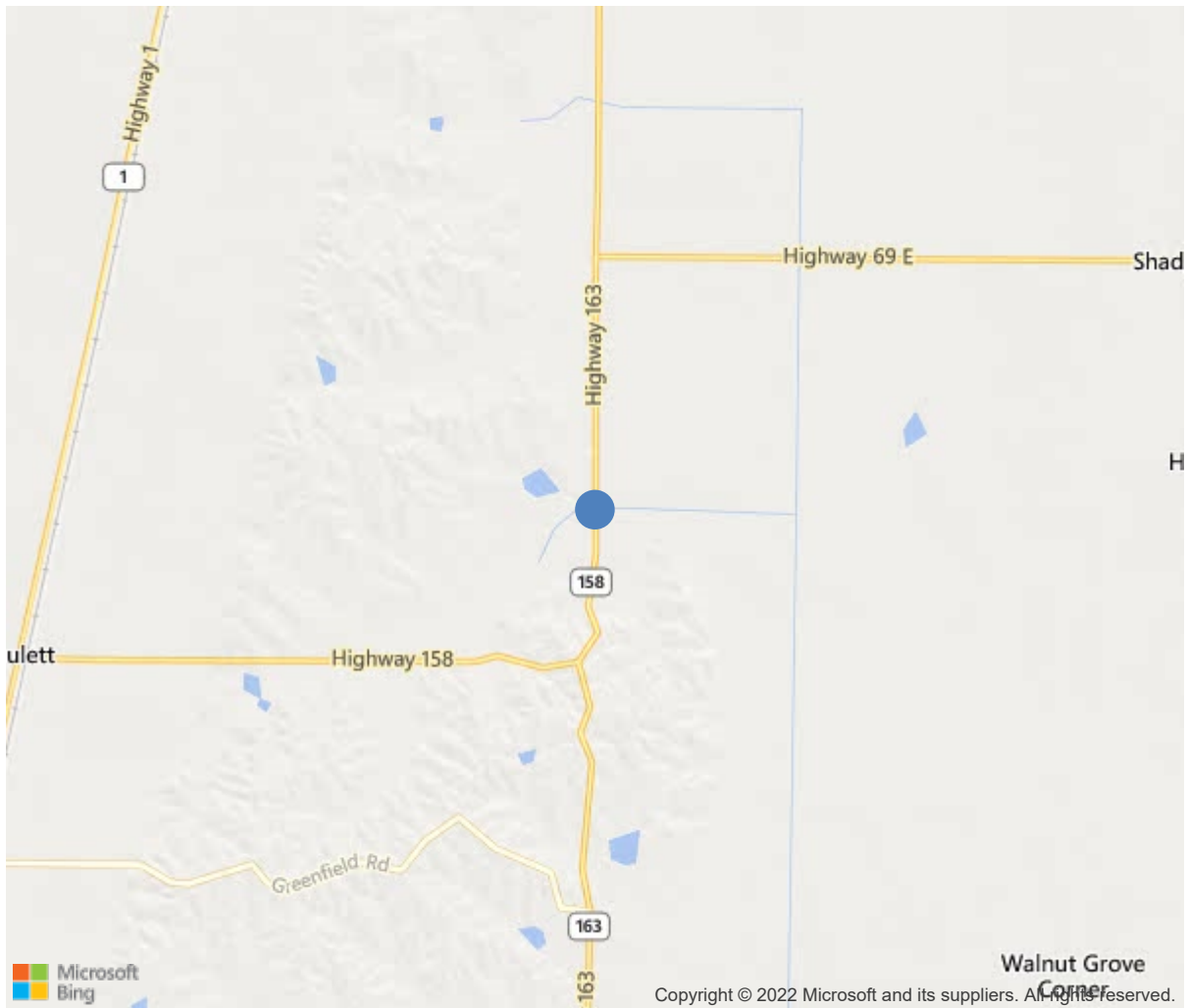
Bridge #03009(Routine, Underwater type 2)

SH 163-04-LM 8.83 over BARKER CREEK

Location: 8.83 N JCT OF SH 14

Team Lead: James Adams **Inspection Date:** May 18, 2020

8.83 N JCT OF SH 14



35.66038, -90.65947



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Location: 8.83 N JCT OF SH 14

Team Lead: James Adams Inspection Date: May 18, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03009
(5) Inventory Route	163
(2) Highway Agency District	10
(3) County Code	111-Poinsett County, Arkansas
(4) Place Code	0
(6) Features Intersected	BARKER CREEK
(7) Facility Carried	SH 163-04-LM 8.83
(9) Location	8.83 N JCT OF SH 14
(11) Mile Point	8.83 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.66038
(17) Longitude	-90.65947
(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	2
(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	1956
(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	1800
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	5 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	28 ft
(49) Structure Length	56 ft
(50) Curb or Sidewalk Width	
Left	1 ft
Right	1 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	26.5 ft
(32) Approach Roadway Width (W/Shoulders)	27.9 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	25.9 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	7-Rural Major Collector
(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	0-The inventory route is not part of
(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	7
(60) Substructure	6
(61) Channel & Channel Protection	5
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2-M 13.5 / H 15
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	48
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	2
Rating	29
(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	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	6
(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	81 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 117
(96) Total Project Cost	\$ 274
(97) Year of Improvement Cost Estimate	2002
(114) Future ADT	1987
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			05/2020
(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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Team Lead: James Adams, Inspection Date: May 18, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	1484	1421	58	5	0
1080	Delamination/Spall/Patched Area	SF	5	0	0	5	0
1120	Efflorescence/Rust Staining	SF	3	0	3	0	0
1130	Cracking (RC and Other)	SF	55	0	55	0	0
510	Wearing Surfaces	SF	1344	1007	60	277	0
3210	Delam/Spall/Patched Area/Pothole	SF	172	0	60	112	0
3220	Crack (Wearing Surface)	SF	165	0	0	165	0
215	Reinforced Concrete Abutment	LF	55	55	0	0	0
227	Reinforced Concrete Pile	EA	12	0	12	0	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
1090	Exposed Rebar	EA	1	0	1	0	0
1130	Cracking (RC and Other)	EA	1	0	1	0	0
1190	Abrasion/Wear (PSC/RC)	EA	1	0	1	0	0
6000	Scour	EA	8	0	8	0	0
234	Reinforced Concrete Pier Cap	LF	28	24	1	3	0
1080	Delamination/Spall/Patched Area	LF	2	0	0	2	0
1120	Efflorescence/Rust Staining	LF	2	0	1	1	0
301	Pourable Joint Seal	LF	27	27	0	0	0
330	Metal Bridge Railing	LF	112	0	112	0	0
1000	Corrosion	LF	112	0	112	0	0
515	Steel Protective Coating	SF	381	76	0	305	0
3440	Effectiveness (Steel Protective Coatings)	SF	305	0	0	305	0



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SH 163-04-LM 8.83 over BARKER CREEK

Location: 8.83 N JCT OF SH 14

Team Lead: James Adams **Inspection Date:** May 18, 2020

Maintenance Needs

Date Reported: 06/04/2012

Priority: D- Routine

Type of Work: None

Status: Monitor

Component:

Deficiency Description

Approach roadways are settled up to 1" at each end.

Remarks



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SH 163-04-LM 8.83 over BARKER CREEK

Location: 8.83 N JCT OF SH 14

Team Lead: James Adams Inspection Date: May 18, 2020

Date Reported: 06/04/2012
Priority: C - Important
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Bent 1 is undermined up to 4' below and 2' back under cap.
Bent 3 is undermined up to 2' below and 2' back under cap.

Remarks





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Location: 8.83 N JCT OF SH 14

Team Lead: James Adams **Inspection Date:** May 18, 2020

Date Reported: 06/04/2012

Priority: G - General/ Preventive maintenance

Type of Work: None

Status: Monitor

Component:

Deficiency Description

Asphalt wearing surface is spalled in Lt and Rt gutters. Wearing surface has areas of map cracking and delamination, and a few patched areas. Span 1 has a spall near centerline.

Remarks



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Location: 8.83 N JCT OF SH 14

Team Lead: James Adams Inspection Date: May 18, 2020

Date Reported: 06/04/2012
Priority: C - Important
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Bent 2 cap has deterioration, spalls & efflorescence on Lt and Rt ends.

Remarks





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Location: 8.83 N JCT OF SH 14

Team Lead: James Adams **Inspection Date:** May 18, 2020

Date Reported: 05/18/2020

Priority: D- Routine

Type of Work: Clean

Status: Open

Component: Channel

Deficiency Description

Trees & brush growing under & beside bridge.

Remarks



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Location: 8.83 N JCT OF SH 14

Team Lead: James Adams **Inspection Date:** May 18, 2020

Inspection Comments

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Deck Notes

Metal guardrail & approach rails have 80% rust cover.

Approach roadways are settled up to 1 in. at each end.

Asphalt wearing surface is spalled in left and right gutters. Wearing surface has areas of map cracking and delamination, and a few patched areas. Span 1 has several patched areas & a 8 in. diameter spall near centerline in asphalt & concrete deck.

Deck has a 4 ft. spall in right gutter.

Superstructure Notes

Soffit has longitudinal cracking with some efflorescence.

Substructure Notes

Bent 1 is undermined up to 4 ft. below and 2 ft. back under cap. Timber lagging & broken concrete are in place.

Bent 2 cap has deterioration with spalls & efflorescence on left and right ends.

Bent 2 pile 1 has a small delaminated area.

Bent 2 pile 2 has minor abrasion.

Bent 2 pile 3 has exposed rebar near top of pile.

Bent 2 pile 4 has spalls with some exposed rebar.

Bent 3 cap is undermined up to 2 ft. below and 2 ft. back under.

Minor drift lodged on bent 2.

Trees & brush growing under & beside bridge.

Underwater type 2 inspection performed this report.