



Latitude:35.61502, Longitude:-90.66050

Route:163 Section:04 Log:5.56

Arnold Road ID:56x163x4xA, Arnold Log mile:5.504

District 10, Poinsett County

Owner: 1-State Highway Agency

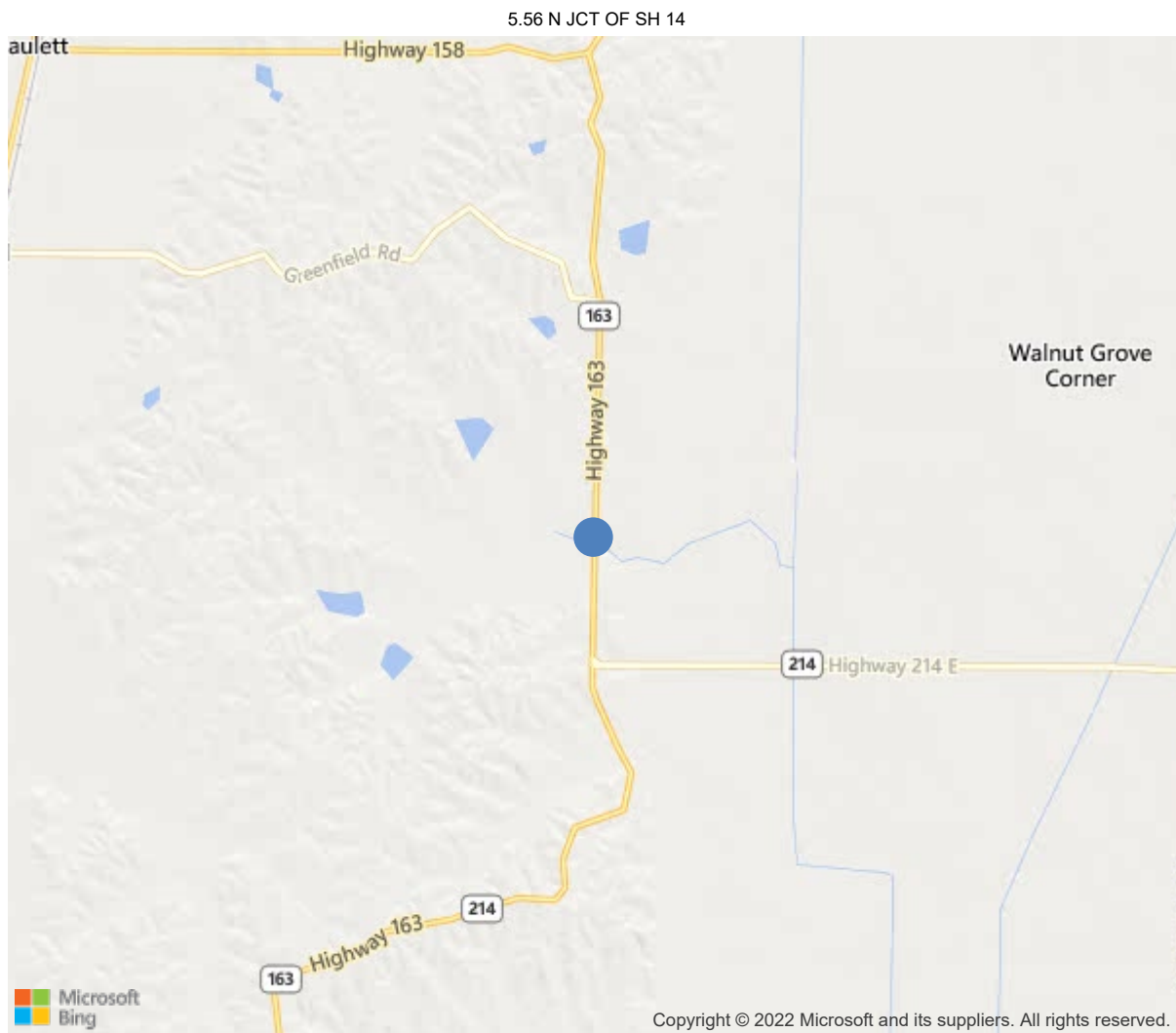


Bridge #03008(Routine, Underwater type 2)

SH 163-04- LM 5.56 over BIG CREEK

Location: 5.56 N JCT OF SH 14

Team Lead: James Adams **Inspection Date:** February 11, 2020



35.61502, -90.66050



Bridge #03008(Routine, Underwater type 2)

SH 163-04- LM 5.56 over BIG CREEK

Location: 5.56 N JCT OF SH 14

Team Lead: James Adams Inspection Date: February 11, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03008
(5) Inventory Route	163
(2) Highway Agency District	10
(3) County Code	111-Poinsett County, Arkansas
(4) Place Code	0
(6) Features Intersected	BIG CREEK
(7) Facility Carried	SH 163-04- LM 5.56
(9) Location	5.56 N JCT OF SH 14
(11) Mile Point	5.56 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.61502
(17) Longitude	-90.6605
(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	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	810
(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	84 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)	25.9 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	6
(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	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	4
(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	
(76) Length of Structure Improvement	0 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 0
(97) Year of Improvement Cost Estimate	
(114) Future ADT	1055
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	02/2020		
(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.			



Bridge #03008(Routine, Underwater type 2)

SH 163-04- LM 5.56 over BIG CREEK

Location: 5.56 N JCT OF SH 14

Team Lead: James Adams, Inspection Date: February 11, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	2226	2160	34	32	0
1080	Delamination/Spall/Patched Area	SF	22	0	18	4	0
1090	Exposed Rebar	SF	8	0	0	8	0
1120	Efflorescence/Rust Staining	SF	28	0	8	20	0
1130	Cracking (RC and Other)	SF	8	0	8	0	0
510	Wearing Surfaces	SF	2016	1264	0	752	0
3220	Crack (Wearing Surface)	SF	672	0	0	672	0
3210	Delam/Spall/Patched Area/Pothole	SF	80	0	0	80	0
227	Reinforced Concrete Pile	EA	8	6	1	1	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
1120	Efflorescence/Rust Staining	EA	1	0	0	1	0
234	Reinforced Concrete Pier Cap	LF	130	86	21	23	0
1010	Cracking	LF	10	0	0	10	0
1080	Delamination/Spall/Patched Area	LF	34	0	21	13	0
301	Pourable Joint Seal	LF	53	53	0	0	0
330	Metal Bridge Railing	LF	168	0	168	0	0
1000	Corrosion	LF	168	0	168	0	0
515	Steel Protective Coating	SF	571	285	0	286	0
3440	Effectiveness (Steel Protective Coatings)	SF	286	0	0	286	0



Bridge #03008(Routine, Underwater type 2)

SH 163-04- LM 5.56 over BIG CREEK

Location: 5.56 N JCT OF SH 14

Team Lead: James Adams **Inspection Date:** February 11, 2020

Maintenance Needs

Date Reported: 01/23/2014

Priority: D- Routine

Type of Work: None

Status: Monitor

Component:

Deficiency Description

Caps have a few cracks with efflorescence and some rust stains. Caps have a few small spalls/delaminated areas.

Bent 2 pile 1 has 2' of cracks and delamination near top.

Bent 3 pile 1 has 2' of rust stained cracks near top.

Remarks





Bridge #03008(Routine, Underwater type 2)

SH 163-04- LM 5.56 over BIG CREEK

Location: 5.56 N JCT OF SH 14

Team Lead: James Adams **Inspection Date:** February 11, 2020

Date Reported: 01/23/2014

Priority: D- Routine

Type of Work: None

Status: Monitor

Component:

Deficiency Description

Approach roadways have up to 1.5" of settlement at each end of bridge.

Remarks





Bridge #03008(Routine, Underwater type 2)

SH 163-04- LM 5.56 over BIG CREEK

Location: 5.56 N JCT OF SH 14

Team Lead: James Adams **Inspection Date:** February 11, 2020

Date Reported: 02/13/2020
Priority: C - Important
Type of Work: Repair
Status: Open
Component:

Deficiency Description

Bridge rail posts have some deterioration on bottom and a few spalls with exposed rebar, especially span 2 over bents 2 & 3.

Remarks



Bridge #03008(Routine, Underwater type 2)

SH 163-04- LM 5.56 over BIG CREEK

Location: 5.56 N JCT OF SH 14

Team Lead: James Adams **Inspection Date:** February 11, 2020

Deck Notes

Bridge rail posts have some deterioration on bottom and a few spalls with exposed rebar, especially span 2 over bents 2 & 3. Metal rails have 50% paint deterioration. Approach roadways have up to 1.5 in. of settlement at each end of bridge, south end of roadway has some asphalt patches. Wearing surface has several longitudinal and transverse cracks, especially in wheel paths and delamination in gutterlines. Concrete curbs have areas of deterioration with no exposed rebar.

Superstructure Notes

Soffit has a few cracks with efflorescence. Soffit has a few spalled and delaminated areas along edges, mostly near drain openings. Span 1 right drain opening has exposed rebar.

Substructure Notes

Caps have a few cracks with efflorescence and some rust stains with a few spalls & delaminated areas. Bent 3 cap span 3 side has a 10 ft. horizontal crack with efflorescence & rust stains near top of cap. Bent 2 pile 1 has 2 ft. of cracks and delamination near top. Bent 3 pile 1 has 2 ft. of rust stained cracks near top.

Small trees growing under & beside bridge

There is a bend in channel upstream and downstream from bridge. Slopes have widespread embankment erosion. Stone rip rap is in place on slopes at bents 1 and 4.

Underwater type 2 inspection performed this report.