



Latitude:34.25846, Longitude:-90.94023

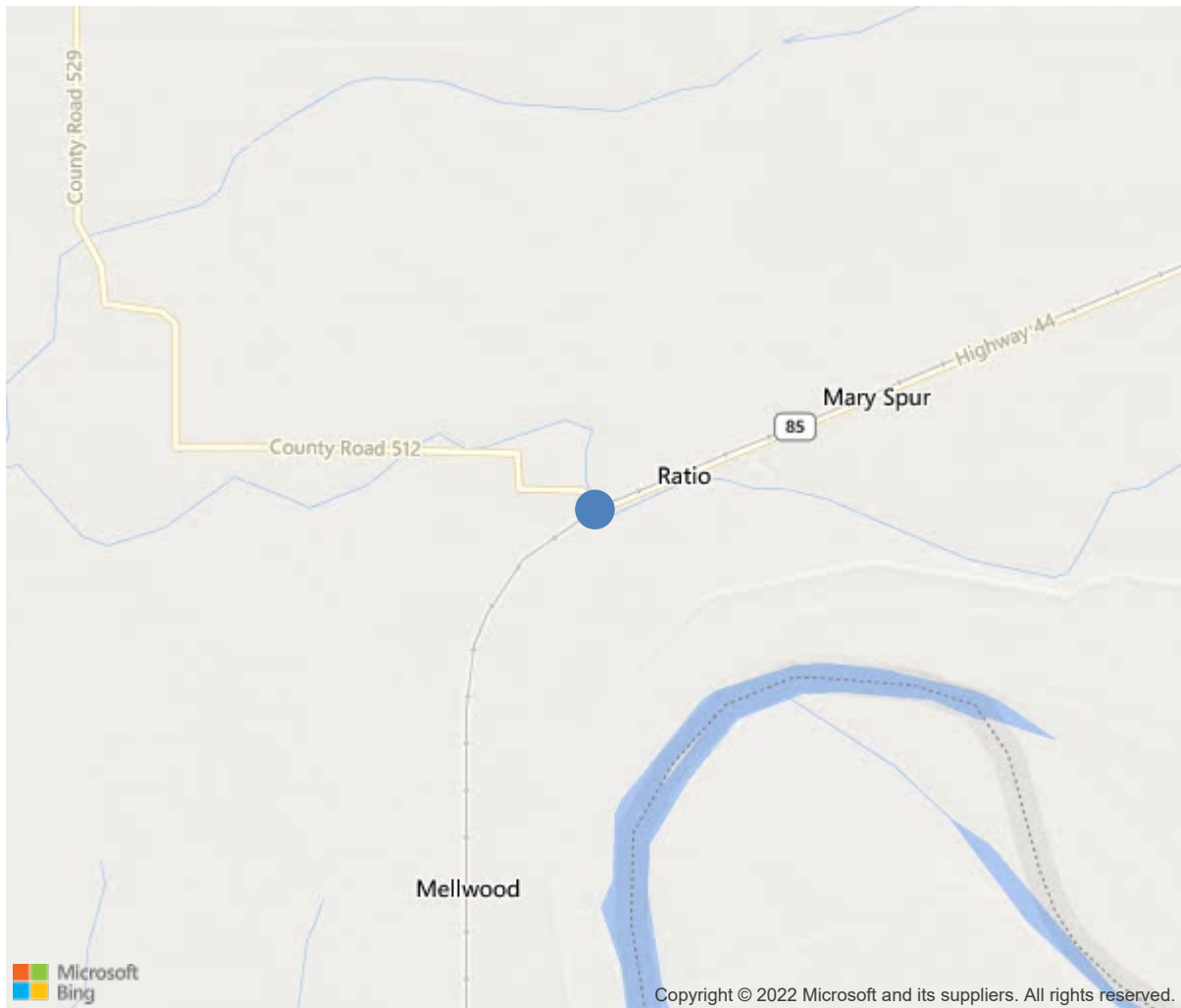
Route:44 Section:03 Log:10.21

Arnold Road ID:54x44x3xA, Arnold Log mile:10.212

District 01, Phillips County

Owner: 1-State Highway Agency

.3 Mi South Of Ratio, Ark



34.25846, -90.94023

Inspection Direction : W to E



Bridge #03053(Routine)
Sh-44/Sec-3/L10.21 over Yellow Bank Bayou

Location: .3 Mi South Of Ratio, Ark

Team Lead: Myron Futrell Inspection Date: November 30, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03053
(5) Inventory Route	44
(2) Highway Agency District	01
(3) County Code	107-Phillips County, Arkansas
(4) Place Code	0
(6) Features Intersected	Yellow Bank Bayou
(7) Facility Carried	Sh-44/Sec-3/L10.21
(9) Location	.3 Mi South Of Ratio, Ark
(11) Mile Point	10.21 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.25846
(17) Longitude	-90.94023
(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	4
(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	1957
(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	390
(30) Year of ADT	2019
(109) Truck ADT	1 %
(19) Bypass, Detour Length	124 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	26 ft
(49) Structure Length	103 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)	21 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	24 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	0 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	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	7
(59) Superstructure	7
(60) Substructure	7
(61) Channel & Channel Protection	7
(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	46
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	4
Rating	28
(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	1029
(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.			

Team Lead: Myron Futrell, **Inspection Date:** November 30, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	2729	2625	104	0	0
1130	Cracking (RC and Other)	SF	104	0	104	0	0
510	Wearing Surfaces	SF	2472	2472	0	0	0
(38)							
Span #1,4 soffit in center has two longitudinal cracks.							
215	Reinforced Concrete Abutment	LF	102	52	50	0	0
1130	Cracking (RC and Other)	LF	50	0	50	0	0
(215)							
Abutment #1,2 both wings are cracked.							
227	Reinforced Concrete Pile	EA	12	12	0	0	0
234	Reinforced Concrete Pier Cap	LF	186	169	17	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	16	0	16	0	0
(234)							
Bent #4 cap left end has several hairline cracks.							
Bent #4 cap ahead face at top has a one foot delamination in center.							
Abutment #2 cap has one vertical crack near center.							
Abutment #1 cap has vertical cracks every two feet.							
301	Pourable Joint Seal	LF	80	0	0	80	0
2350	Debris Impaction	LF	80	0	0	80	0
(301)							
Joints have been overlaid limiting movement.							
330	Metal Bridge Railing	LF	266	0	266	0	0
1000	Corrosion	LF	266	0	266	0	0
515	Steel Protective Coating	SF	618	0	0	518	100
3440	Effectiveness (Steel Protective Coatings)	SF	618	0	0	518	100
(330)							
End posts are spalled on tops due to collision damage.							
Abutment #1 left end post spalled with exposed rebar.							
Paint has primer showing full length with some areas of rust.							

Maintenance Needs

Date Reported: 11/06/2012
Priority: C - Important
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Approach roadway abutment #1
has settled two inches increasing impact loading on bridge.

Remarks



Abutment #1 approach roadway settled left lane

Date Reported: 11/06/2012
Priority: C - Important
Type of Work: N/A
Status: Assigned
Component:

Deficiency Description

Gutters have dirt and debris in them with vegetation growing.

Remarks



Gutters full of dirt and debris



Dirt and debris in gutters.



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Location: .3 Mi South Of Ratio, Ark

Team Lead: Myron Futrell Inspection Date: November 30, 2020

Date Reported: 11/06/2012
Priority: C - Important
Type of Work: N/A
Status: Assigned
Component:

Deficiency Description

Approach rail abutment #1 right side at first post connection is loose and post is broken.

Remarks



Abutment #1 right approach rail first post broken.



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Sh-44/Sec-3/L10.21 over Yellow Bank Bayou

Location: .3 Mi South Of Ratio, Ark

Team Lead: Myron Futrell **Inspection Date:** November 30, 2020

Date Reported: 11/06/2012

Priority: D- Routine

Type of Work: N/A

Status: Monitor

Component:

Deficiency Description

Approach rail abutment #2 right side is gone.

Remarks



Abutment #2 right approach rail gone

Date Reported: 11/04/2014
Priority: C - Important
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Slope at abutment #2 right side of bridge is eroded underneath concrete rubble.
Side slope eroded at abutment #2 right side 10' +/- from bridge end.

Remarks



Abutment #2 right side erosion under rubble



Abutment #2 right side.



Slope erosion at abutment #2 right side 10' +/- from bridge end.

Date Reported: 11/04/2016
Priority: C - Important
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Vegetation growing under bridge and up piles and abutments

Remarks



Bent #4 cap ahead face at centerline



Vines growing onto both abutments



Vegetation growing under bridge and up piles bent
#4



Small trees and vegetation growing beside and
under bridge.

Date Reported: 12/01/2020
Priority: C - Important
Type of Work: Replace
Status: Open
Component: Approach

Deficiency Description

Abutment #1 left flair board knocked down.
Abutment #1 right flair board and log mile sign knocked.
Abutment #2 right flair board missing.

Remarks



Abutment #2 right flair board missing.



Abutment #1 right flair board and log mile sign knocked.



Bridge #03053(Routine)
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Location: .3 Mi South Of Ratio, Ark

Team Lead: Myron Futrell Inspection Date: November 30, 2020

Date Reported: 12/01/2020
Priority: D- Routine
Type of Work: Repair
Status: Open
Component: 330 - Metal Bridge Railing

Deficiency Description

Abutment #1, left rail, end post spalled with exposed rebar.

Remarks



Abutment #1 left end post spalled with exposed rebar.



Bridge #03053(Routine)

Sh-44/Sec-3/L10.21 over Yellow Bank Bayou

Location: .3 Mi South Of Ratio, Ark

Team Lead: Myron Futrell **Inspection Date:** November 30, 2020

Inspection Comments

Abutment #2 right side sloe 10'+- from end of bridge eroded.

Abutment #1 right approach rail, first post broken.