



Latitude:34.03874, Longitude:-93.41837

Route:26 Section:03 Log:16.63

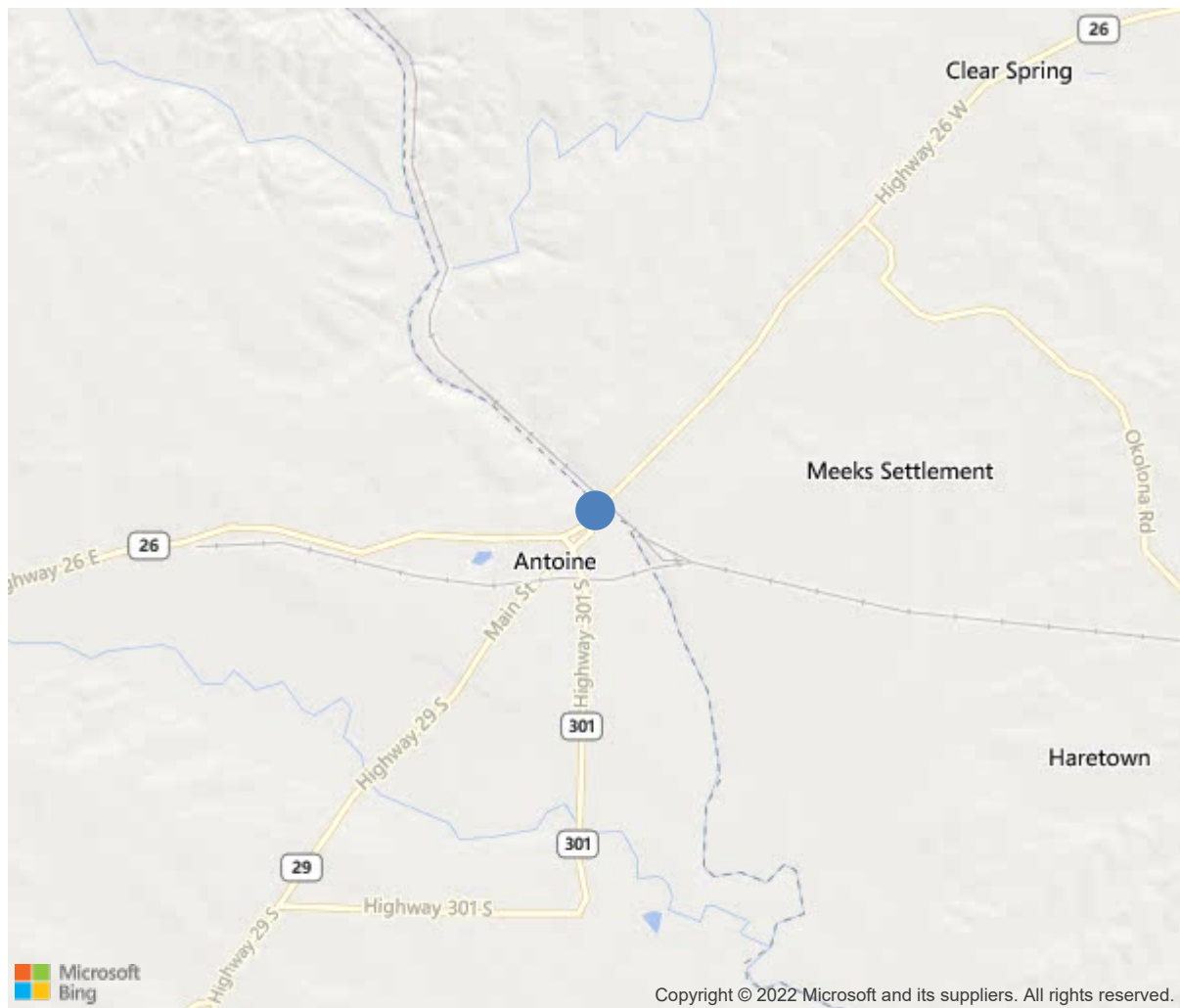
Arnold Road ID:55x26x3xA, Arnold Log mile:16.576

District 03, Pike County

Owner: 1-State Highway Agency

Place Code: 01540 - Antoine

EAST EDGE OF ANTOINE



34.03874, -93.41837



Bridge #02864(Routine)
SH 26-SEC.03-16.63 over ANTOINE RIVER

Location: EAST EDGE OF ANTOINE

Team Lead: John King Inspection Date: September 21, 2021

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	02864
(5) Inventory Route	26
(2) Highway Agency District	03
(3) County Code	109-Pike County, Arkansas
(4) Place Code	1540
(6) Features Intersected	ANTOINE RIVER
(7) Facility Carried	SH 26-SEC.03-16.63
(9) Location	EAST EDGE OF ANTOINE
(11) Mile Point	16.63 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000026030
(16) Latitude	34.03874
(17) Longitude	-93.41837
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	32
Material	3-Steel
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	0-None
AGE AND SERVICE	
(27) Year Built	1953
(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	1227
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	30 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	75 ft
(49) Structure Length	302 ft
(50) Curb or Sidewalk Width	
Left	1.3 ft
Right	1.3 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	26.6 ft
(32) Approach Roadway Width (W/Shoulders)	19 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	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	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	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	4
(59) Superstructure	5
(60) Substructure	5
(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	41
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	5
Rating	24
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	5
(68) Deck Geometry	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	7
(72) Approach Roadway Alignment	7
(36A) Bridge Railings	1-Inspected feature meets currently a
(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	338 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 156
(96) Total Project Cost	\$ 875
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	1379
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			09/2021
(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	Yes		09/2020
* 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: John King, **Inspection Date:** September 21, 2021

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	8033	6523	100	1405	5
1080	Delamination/Spall/Patched Area	SF	250	0	0	250	0
1130	Cracking (RC and Other)	SF	20	0	20	0	0
(12)							
1080- unsound patches in main span 1130- sealable deck cracks in main span							
107	Steel Open Girder/Beam	LF	1500	1490	10	0	0
1000	Corrosion	LF	10	0	10	0	0
515	Steel Protective Coating	SF	13227	13177	50	0	0
3440	Effectiveness (Steel Protective Coatings)	SF	50	0	50	0	0
(107)							
SECTION LOSS BEAM #5 AT BENT #4 UP TO A 1/4 SECTION LOSS TO BEAM, 18" FROM C/L OF CAP. SPAN #2 BEAM #4 1/4 SECTION LOSS TO BOTTOM FLANGE BELOW PIN & HANGER AREA THIS IS ONLY ON BOTTOM FLANGE AND BOTTOM OF WEB AREA.							
161	Steel Pin, Pin and Hanger Assembly	EA	10	0	10	0	0
1000	Corrosion	EA	10	0	10	0	0
(161)							
HEAVY RUST AND SECTION LOSS							
205	Reinforced Concrete Column	EA	4	3	1	0	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
210	Reinforced Concrete Pier Wall	LF	24	24	0	0	0
215	Reinforced Concrete Abutment	LF	68	68	0	0	0
225	Steel Pile	EA	10	6	0	4	0
1000	Corrosion	EA	4	0	0	4	0
234	Reinforced Concrete Pier Cap	LF	150	144	6	0	0
1130	Cracking (RC and Other)	LF	6	0	6	0	0
(234)							
BT 4 RT SIDE SOUTH FACE CRACK AT TOP OF CAP UNDER BEARING AREA							
303	Assembly Joint with Seal	LF	144	0	96	48	0
2310	Leakage	LF	48	0	0	48	0
(303)							
ALL JOINTS ARE LEAKING WATER ONTO BEAMS AND CAPS							



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
311	Movable Bearing	EA	5	0	5	0	0
1000	Corrosion	EA	5	0	5	0	0
313	Fixed Bearing	EA	35	24	10	1	0
1000	Corrosion	EA	5	0	5	0	0
330	Metal Bridge Railing	LF	604	444	160	0	0
1000	Corrosion	LF	150	0	150	0	0
(330)							
1000-	mild corrosion metal railing						
331	Reinforced Concrete Bridge Railing	LF	604	444	30	130	0
1090	Exposed Rebar	LF	100	0	0	100	0



2021 Alignment



2021 Deck



Underside of deck typical all spans



Deck



Superstructure and pin and hanger assembly



Alignment



Beam 1 span 4 pin is offset



Underside of deck typical all spans



SS



Spall with rebar exposed bent 4 bay 1 span 4 side



Deck



AL



Bent 2 repair



Bent 2 repair



Elevation



New patch



2021 Deck



Bottom of deck



Bents concrete



2021 patches



Deck patches 2020 and 2021



2021 Cracking at bent 3 bearing area right and left side of cap

Maintenance Needs

Date Reported: 09/20/2011
Priority: D- Routine
Type of Work: None
Status: Assigned
Component:

Deficiency Description

CONCRETE CAPS AT
BENTS #3 AND #4
HORIZONTAL CRACK NEAR THE TOP OF THE CAP.
NOTE: WAS SEALED YEARS AGO BUT NEED SEALED AGAIN.

Remarks



Bent 3 rt side south face span 2 side



Cracks in cap BT 4



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Bent 4 cap on north side above col.1

Date Reported: 09/20/2011
Priority: D- Routine
Type of Work: Repair
Status: Assigned
Component: Deck

Deficiency Description

BOTTOM OF DECK IN SPAN #4
36"X18"X 1-1/2" SPALL WITH REBAR EXPOSED. SPALLS WITH REBAR EXPOSED IN ALL SPANS.
Span 4 bay 1 and 2 and 3 ,4 spalls with rebar exposed 2021
Span 1 bay 2,3, large spall with rebar exposed bottom side of deck 2021

Remarks



Spall span 4



Spalls with rebar exposed all spans under deck



Span 4 bay 1 and 2 and 3 ,4 spalls with rebar
exposed 2021



2021 Span 1 bay 2,3, large spall with rebar
exposed bottom side of deck

Date Reported: 09/20/2011

Priority: D- Routine

Type of Work: Repair

Status: Assigned

Component:

Deficiency Description

SECTION LOSS
BEAM #5 AT BENT #4
UP TO A 1/4 SECTION LOSS TO BEAM, 18" FROM
C/L OF CAP.

SPAN #2 BEAM #4
1/4 SECTION LOSS TO BOTTOM FLANGE BELOW PIN & HANGER AREA

Remarks



Section loss to beam 5 at bent 4



Rust and section loss at bent 4 beam 5



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Date Reported: 09/20/2011
Priority: D- Routine
Type of Work: None
Status: Assigned
Component:

Deficiency Description

CONCRETE
CAP HAUNCHES
AT BENTS 3 &4
RT. SIDE
SPALLED W/ REBAR EXPOSED.

Remarks



Bent 3 cap haunch rt side



Cap haunch at bent 4 rt side

Date Reported: 09/18/2017
Priority: D- Routine
Type of Work: None
Status: Assigned
Component:

Deficiency Description

PACK RUST AND SECTION RUST TYPICALLY ALL BEARINGS

Remarks



PACK RUST AND SECTION LOSS TYPICAL ALL BEARINGS



WATER LEAKING CAUSING PACK RUST



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Date Reported: 09/18/2017
Priority: D- Routine
Type of Work: None
Status: Assigned
Component:

Deficiency Description

ALL JOINTS LEAKING WATER ON BEAMS AND CAPS

Remarks



WATER LEAKING CAUSING PACK RUST

Date Reported: 09/20/2011

Priority: D- Routine

Type of Work: None

Status: Assigned

Component:

Deficiency Description

BENT #3 ANCHOR BOLTS

BEARING #1—HAS 2 BOLTS ATE IN TWO BY SECTION LOSS

BEARING #2—HAS 2 BOLTS ATE IN TWO BY SECTION LOSS

BEARING #3,#4& #5—HAS 1 BOLT ATE IN TWO BY SECTION LOSS

Remarks



ANCHOR BOLTS ATE IN TWO BY SECTION LOSS



Missing anchor bolt top and nut



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Date Reported: 09/21/2021
Priority: C - Important
Type of Work: Clean
Status: Open
Component: Miscellaneous

Deficiency Description

Trees and brush needs cut and sprayed around pin and hangers to get access with snooper

Remarks

Trees need cut back



Trees need cut back



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Inspection Comments

SNOOPER USED TO INSPECT PIN AND HANGERS....9/18/2017...AL, SS, DECK, DEF. PHOTOS TAKEN. LITTLE OR NO CHANGE IN CONDITION. SNOOPER USED TO INSPECT PIN AND HANGERS...9/17/2018...Special inspection only on pin and hanger. Ultra sonic testing done. AL, SS photos taken...9/16/2019...Routine and Underwater Type 2. AL, SS, Deck, Def. Photos taken. Ultrasonic testing done on pins. Little or no change in condition...9/29/2020...Special recurring inspection on deck. AL, Elevation, Deck, Def photos taken. Pins tested this inspection...09/21/21 Alignment elevation photos taken lowered sub to 5 fair due to cracking in cap around bearing area and in other various locations. steel pile are showing signs of rust and some section loss.

Deck Notes

BRIDGE BUILT ON JOB 1265 ALSO SEE LAYOUT DRAWING 8232 STEEL BEAMS WERE PAINTED IN 2011 JOB #030236 4 POOR DECK PATCHES...9/29/2020...Deck patch quantities updated this inspection...2021 bottom side deck has spalls with rebar exposed in various location of bridge

Superstructure Notes

5 FAIR

Substructure Notes

6 SATISFACTORY 2021 5 fair Cracking at bent 3 bearing area right and left side of cap