



Latitude:35.16469, Longitude:-93.84178

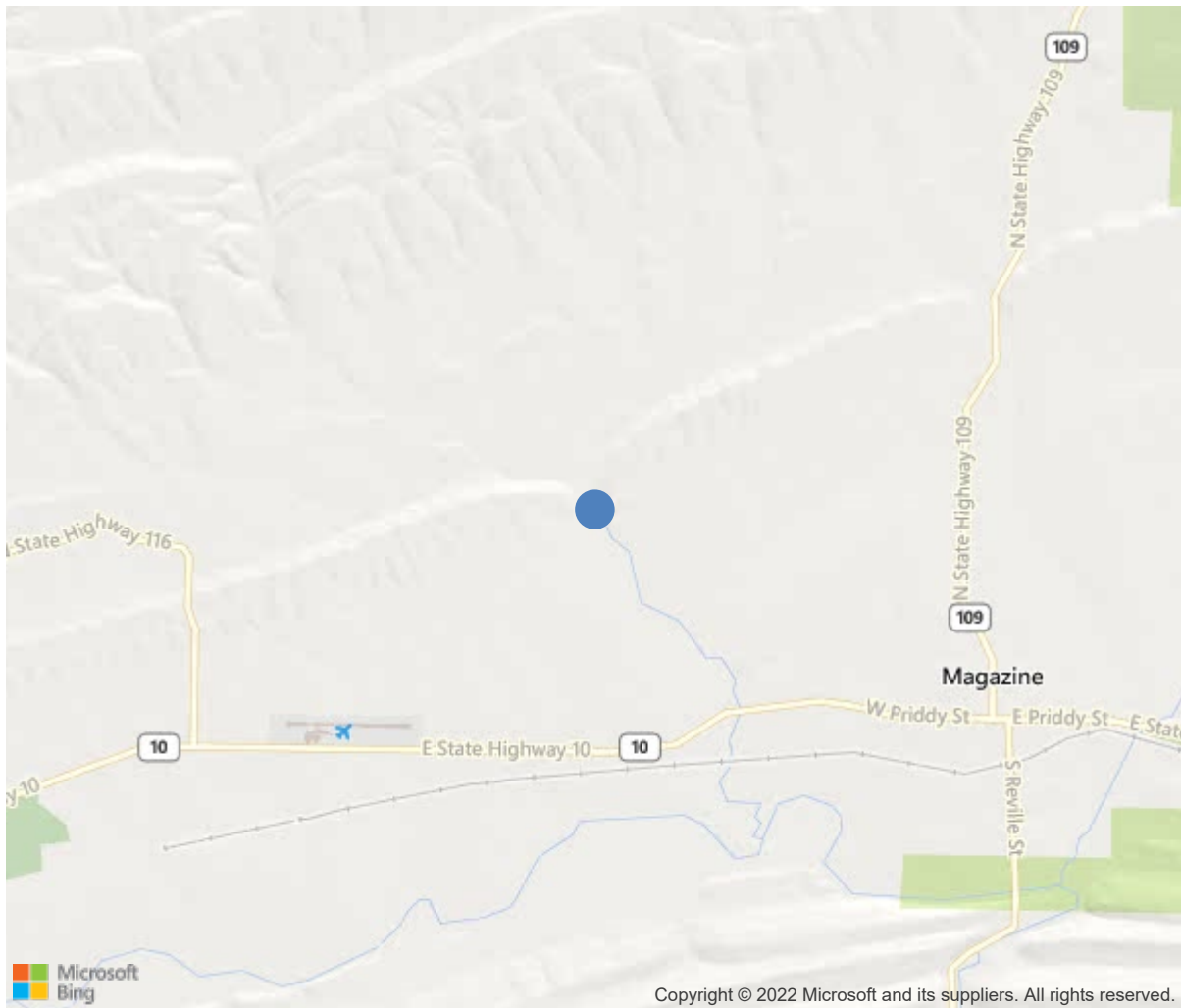
Route:30 Section:00 Log:1.62

Arnold Road ID:42xELKINSRDx1xA, Arnold Log mile:0.024

District 04, Logan County

Owner: 2-County Highway Agency

1.8 MI W SH 109



35.16469, -93.84178

Inspection Direction : W to E



Bridge #04630(Routine, Underwater type 2)

Elkins Road over Scotts Creek-Logan Co.

Location: 1.8 MI W SH 109

Team Lead: Jeff Jones Inspection Date: April 20, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	04630
(5) Inventory Route	30
(2) Highway Agency District	04
(3) County Code	83-Logan County, Arkansas
(4) Place Code	0
(6) Features Intersected	Scotts Creek-Logan Co.
(7) Facility Carried	Elkins Road
(9) Location	1.8 MI W SH 109
(11) Mile Point	1.62 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.16469444444445
(17) Longitude	-93.84177777777778
(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	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	1-Monolithic Concrete (concurrently placed
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1990
(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	40
(30) Year of ADT	1989
(109) Truck ADT	1 %
(19) Bypass, Detour Length	5 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	50 ft
(49) Structure Length	150 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	26.8 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	25.3 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	9-Rural Local
(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	2-County Highway Agency
(22) Owner	2-County Highway Agency
(37) Historical Significance	4-Historical significance is not dete
CONDITION	
(58) Deck	7
(59) Superstructure	8
(60) Substructure	8
(61) Channel & Channel Protection	8
(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	60
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	3
Rating	36
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	8
(68) Deck Geometry	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	9
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1-Inspected feature meets currently a
(36B) Transitions	1-Inspected feature meets currently a
(36C) Approach Guardrail	1-Inspected feature meets currently a
(36D) Approach Guardrail Ends	1-Inspected feature meets currently a
(113) Scour Critical Bridges	8-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	54
(115) Year of Future ADT	2009

INSPECTIONS *			
(90) Inspection Date			04/2020
(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.			



Roadway



Typical driving surface of the deck.



Elevation



Spalling at the base of the bridge rail in span # 3.



Typical undersurface of the deck.



Potholes in the west approach roadway.



Approach roadway facing East.



Random cracking in Span # 1.



Deck. Typical.



Span # 3. Typical.



Span # 2 deck soffit. Typical.



Bent # 4. Typical.



Bent # 2. Typical.



Bent # 3. Typical.



Bent # 2, Column # 1. Top of footing is partially exposed.



Bent # 4. Typical.



Span # 1 superstructure. Typical.



Bridge #04630(Routine, Underwater type 2)

Elkins Road over Scotts Creek-Logan Co.

Location: 1.8 MI W SH 109

Team Lead: Jeff Jones **Inspection Date:** April 20, 2020

Maintenance Needs



Bridge #04630(Routine, Underwater type 2)

Elkins Road over Scotts Creek-Logan Co.

Location: 1.8 MI W SH 109

Team Lead: Jeff Jones **Inspection Date:** April 20, 2020

Inspection Comments

04/20/2020 - JCJ & TJL - Routine Inspection and Type 2 Underwater Inspection conducted this date.

04/19/2016 JPB & RSM-Routine and Underwater Type 2 Inspections conducted on this date.

Underwater Inspection: Visual observation during low water conditions indicate that the top of Column # 1 footing of Bent # 2 is exposed but not undermined at this inspection. No apparent scour problems at this inspection.

Deck Notes

Wearing Surface: Transverse cracking on the driving surface of the deck that ranges from 4' - 8' centers. There are areas with superficial hairline map cracking in the deck.

Underside of Deck: Transverse cracks are visible from the under-surface of the overhang that appear to match the joints in the parapet walls.

Joints: The compression joint seals are in place with a few areas that appear to leak water.

Railing: Spalling with exposed reinforcing steel is visible on both sides of Span # 3 where wood forms were left in place during the construction process.

04/20/2020 - JCJ & TJL - Maintenance forces have grouted over the spalls with exposed reinforcing steel in the parapet walls. Also maintenance forces have covered the spalls with asphalt in the base of the parapet walls.

Superstructure Notes

Beams: A588 Weathering steel. No apparent problems during this inspection.

Substructure Notes

04/20/2020 - JCJ & TJL - Type 2 Underwater Inspection conducted this date. Wading and probing during low and clear water conditions indicate that the top of the Left footing at Bent # 2 is exposed. All other footings have cover during this inspection.

Actual field measurement of 15'-5" from the top of Bent # 2 Left footing to the undersurface of the cap.

Solid rock channel is exposed under the structure during this inspection.

ArDOT Drawing # 30435 General Notes state that Footings shall be set a minimum of 1'-6" into material designated as hard sandstone on the boring legend. Interior bent footings shall be set at or below the channel bottom.

There are no apparent scour problems during this inspection.

Soundings taken along both sides of the structure this date. See documentation of soundings associated with this inspection for additional information.

Abutment: Light staining from water leakage through the deck joint seals.

Columns: Light abrasion at the base of the columns.

Pier Cap: Minor staining from water leakage through the compression joint seal at Bent # 3.