



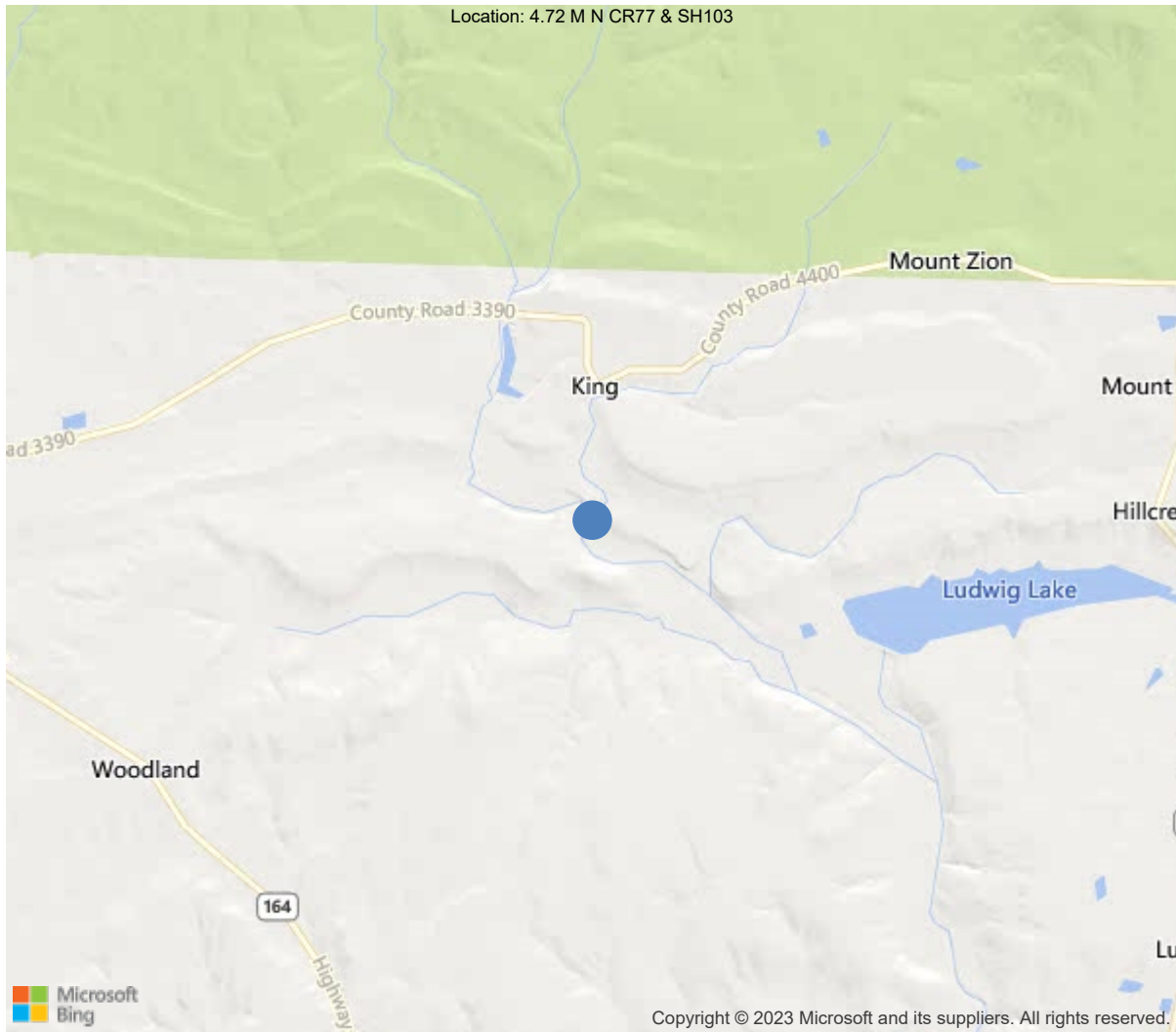
Latitude:35.54167, Longitude:-93.48153

Route:77 Section:00 Log:4.719

Arnold Road ID:36xCOUNTY3451RDx2xA, Arnold Log mile:3.297

District 08, 71 - Johnson County

Owner: 2 - County Highway Agency



35.54167, -93.48153



Asset #14370(Routine)

CR 3451 over Rock Creek

Location: 4.72 M N CR77 & SH103

Team Lead: Kevin Milligan, Inspection Date: 02/13/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	14370
(5) Inventory Route	1
(2) Highway Agency District	08 - District 08
(3) County Code	71 - Johnson County
(4) Place Code	0
(6) Features Intersected	Rock Creek
(7) Facility Carried	CR 3451
(9) Location	4.72 M N CR77 & SH103
(11) Mile Point	4.719 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.5416666666667
(17) Longitude	-93.4815277777778
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	122
Material	1 - Concrete
Type	22 - Channel beam
(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	2 - Concrete Precast Panels
(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	1930
(106) Year Reconstructed	1970
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	904
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	5 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	26 ft
(49) Structure Length	45 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	25.9 ft
(52) Deck Width Out to Out	27.9 ft
(32) Approach Roadway Width (W/Shoulders)	27.9 ft
(33) Bridge Median	0 - No median
(34) Skew	0 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	99.9 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 w
(111) Pier Protection	1 - Navigation protection not
(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	8 - Rural Minor Collector
(100) Defense Highway	0 - The inventory route is not
(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
(20) Toll	3 - On free road. The structure
(21) Maintain	2 - County Highway Agency
(22) Owner	2 - County Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	7
(59) Superstructure	7
(60) Substructure	6
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	0 - Other or Unknown
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	39
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
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	6
(68) Deck Geometry	5
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	7
(72) Approach Roadway Alignment	4
(36A) Bridge Railings	0 - Inspected feature does not meet
(36B) Transitions	0 - Inspected feature does not meet
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	0 - Inspected feature does not meet
(113) Scour Critical Bridges	5 - Bridge foundations determined to
PROPOSED IMPROVEMENTS	
(75) Type of Work	31 - Replacement of bridge or
(76) Length of Structure Improvement	69 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 109
(96) Total Project Cost	\$ 236
(97) Year of Improvement Cost Estimate	1994
(114) Future ADT	182
(115) Year of Future ADT	2007

INSPECTIONS *			
(90) Inspection Date	02/13/2023		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
<p>* 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.</p>			



58 - Deck (7 - GOOD CONDITION - some minor problems.)

Deck has a few transverse cracks in the wearing surface and 1 longitude crack right of the center line.
Soffit is good.

59 - Superstructure (7 - GOOD CONDITION - some minor problems.)

Channel units 7 and 8 have spalls on the end of right stems at abutment 1.

60 - Substructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Top of footing is exposed on the left side of abutment 1 but there is no undermining and the masonry wall has minor joint deterioration.
Abutment 3 has moderate mortar loss along the top portion of the masonry wall.

61 - Channel/Channel Protection (7 - Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift.)
GRAVEL & ROCK

A-46 - Asset Files

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A-B.C.11 - B.C.11 Scour Condition Rating (New NBIS) (8 - Insignificant scour.)

Top of footing is exposed on the left side of abutment 1 but there is no undermining.



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Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4

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Comment: Deck has a few transverse cracks in the wearing surface and 1 longitude crack right of the center line.
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Superstructure

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Comment: Top of footing is exposed on the left side of abutment 1 but there is no undermining and the masonry wall has minor joint deterioration.

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Comment: GRAVEL & ROCK



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Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Elevation.



Elevation (Drone)



Over head deck (Drone)



Inventory



Typical condition of channel units.



Abutment 3 has moderate mortar loss along the top portion of the masonry wall.



Abutment 1 has minor joint deterioration.



Top of footing is exposed on the left side of abutment 1 but there is no undermining.



Top of footing is exposed on the left side of abutment 1 but there is no undermining.



Channel units 7 and 8 have spalls on the end of right stems.



Deck has a few transverse cracks in the wearing surface and 1 longitude crack right of the center line.



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Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	
A-56 - Joint Cleaning/Flushing Needed	
A-57 - Beam End and Bearing Paint Needed	
A-58 - Cap Cleaning/Flushing Needed	
A-59 - Joint Repair Needed	
A-60 - Full Beam Painting Needed	
A-61 - Polymer Overlay Advised	
A-62 - Hydro and LMC Advised	



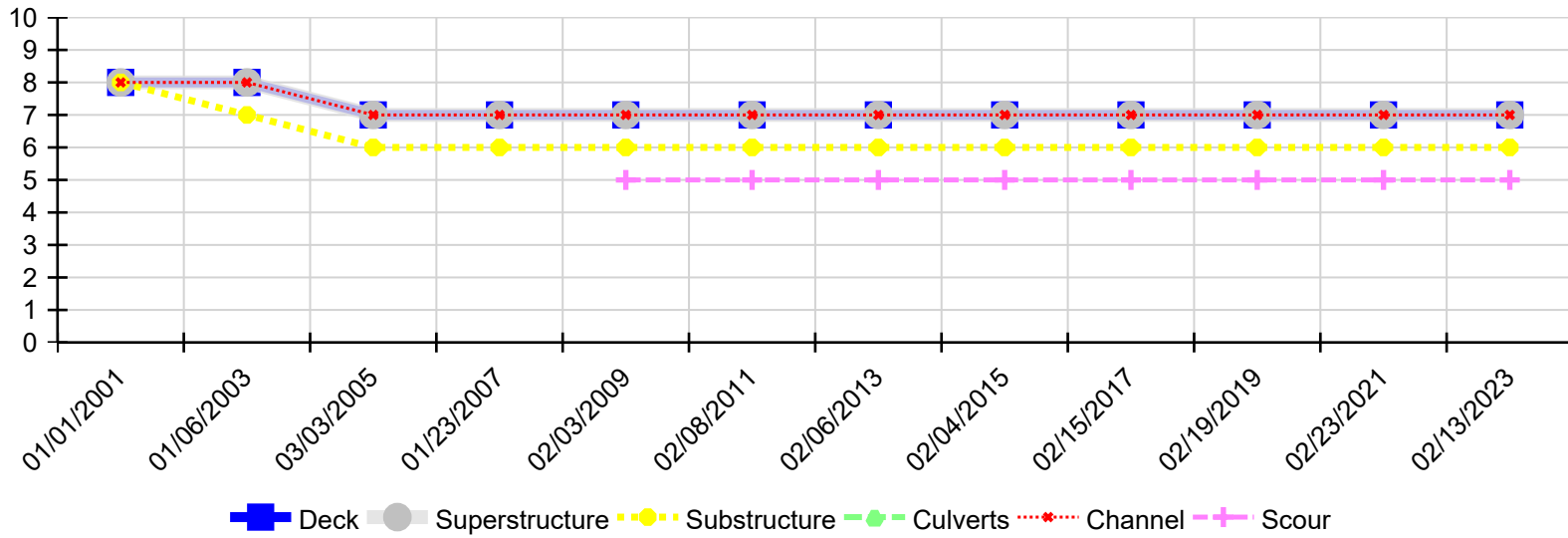
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Team Lead: Kevin Milligan, Inspection Date: 02/13/2023

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
02/13/2023	7	7	6	N	7	5
02/23/2021	7	7	6	N	7	5
02/19/2019	7	7	6	N	7	5
02/15/2017	7	7	6	N	7	5
02/04/2015	7	7	6	N	7	5
02/06/2013	7	7	6	N	7	5
02/08/2011	7	7	6	N	7	5
02/03/2009	7	7	6	N	7	5
01/23/2007	7	7	6	N	7	N
03/03/2005	7	7	6	N	7	N
01/06/2003	8	8	7	N	8	N
01/01/2001	8	8	8	N	8	N