



Latitude:35.55667, Longitude:-93.48972

Route:76 Section:00 Log:3.559

Arnold Road ID:36xCOUNTY3390RDx3xA, Arnold Log mile:3.44

District 08, 71 - Johnson County

Owner: 2 - County Highway Agency

Bridge Posting Information

41 - Structure Open/Posted/Closed: A - Open, no restriction

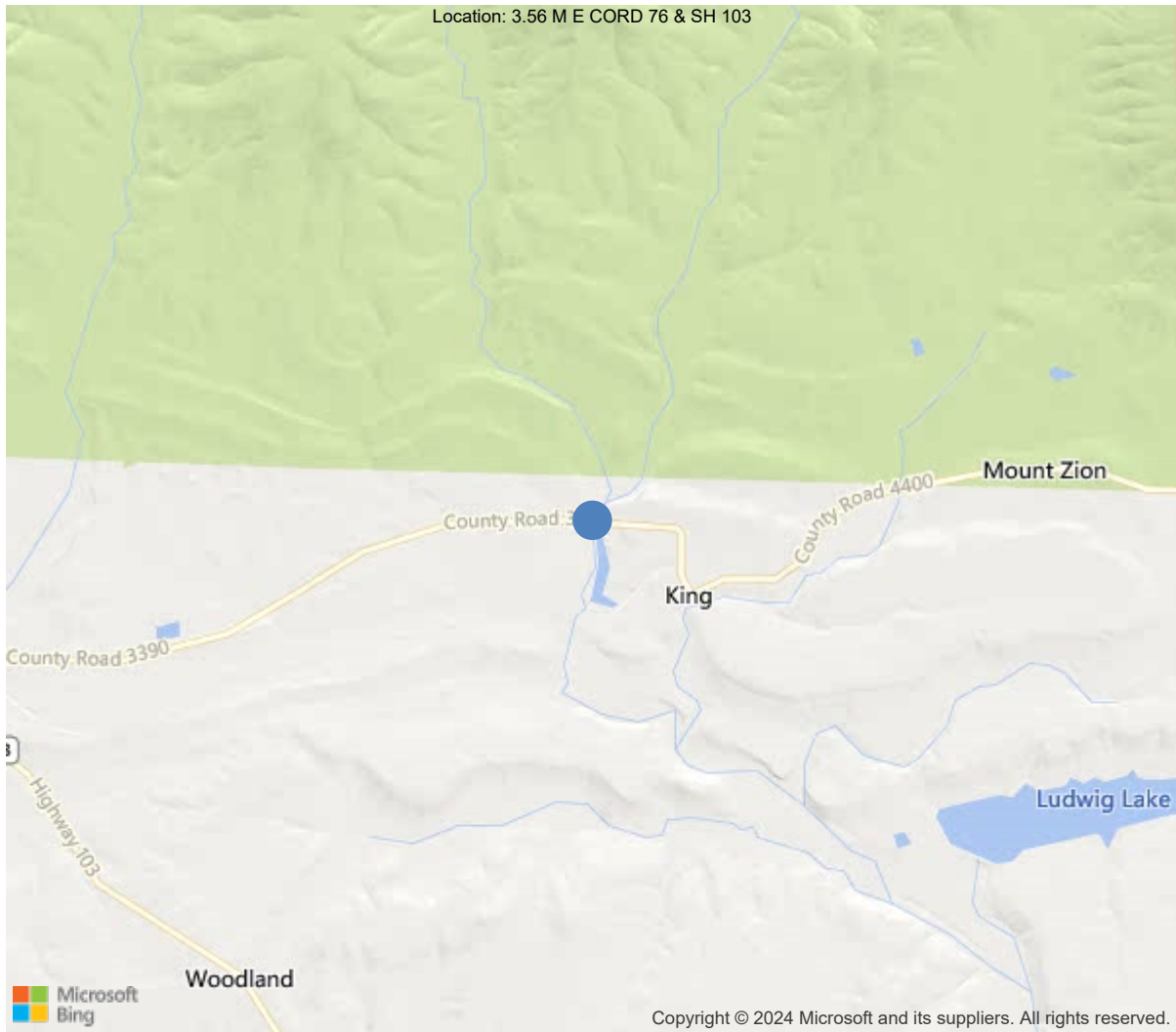
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	36		
Code 9 (31 Tons)	41		
Code 5 (40 Tons)	50		

If calculated Capacity is less than the Legal Load Listed, the Bridge Legally Requires Posting Signs to be installed by the Bridge Owner



30"x36" AR



35.55667, -93.48972



Asset #14367(Routine)

CR 3390 over Spadra Creek

Location: 3.56 M E CORD 76 & SH 103

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

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	14367
(5) Inventory Route	1
(2) Highway Agency District	08 - District 08
(3) County Code	71 - Johnson County
(4) Place Code	0
(6) Features Intersected	Spadra Creek
(7) Facility Carried	CR 3390
(9) Location	3.56 M E CORD 76 & SH 103
(11) Mile Point	3.559 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.5566666666667
(17) Longitude	-93.4897222222222
(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	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	1 - Monolithic Concrete (concurrently pl
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1941
(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	1143
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	15 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	96 ft
(50) Curb or Sidewalk Width	
Left	1.1 ft
Right	1.1 ft
(51) Bridge Roadway Width Curb to Curb	20 ft
(52) Deck Width Out to Out	20 ft
(32) Approach Roadway Width (W/Shoulders)	20 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	21.3 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	2 - Bridge is eligible for the
CONDITION	
(58) Deck	7
(59) Superstructure	6
(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	2
(64) Operating Rating	
Type	2 - Allowable Stress(AS)
Rating	55
(65) Inventory Rating Method	2 - Allowable Stress(AS)
(66) Inventory Rating	
Type	
Rating	33
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRAISAL	
(67) Structural Evaluation	
(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
(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 t
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	281
(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	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.			

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

Asphalt wearing surface looks good.

Deck has 2 open joints .

Concrete rail has been repaired at the bridge ends and looks good.

Span #1 has a few minor cracks in the soffit area of bay #4. Typical in a few areas of both spans.

Soffit in bay #5 over pier #4 has minor spall with exposed rebar with no section loss.

59 - Superstructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

All girders have been painted throughout all spans, there is some minor old pitting near the ends of some girders throughout all spans.

Girders #1 and #7 over pier #4 have minor corrosion with minor section loss at the end of the beams.

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

Abutment #1 - Cracking in the mortar joints, few of the stones are cracked in places and mortar is missing in a few areas.

Abutment #1 has some minor delam in the concrete cap under beam #2. There is a couple cracks in the concrete cap.

Pier #2 back side has minor spall under girder # 5, there is a moderate crack under girder #4.

Pier #2 back side has some minor cracking in the mortar joints and some missing mortar in a few areas.

Ahead side of pier #2 has some minor scour (approximately 18"-24") with no undermining.

Ahead side pier #3 has a few minor spalls in the concrete cap under girders 1, 3, 5 and 7.

Pier #4 back side has a couple minor spalls under girders 6 and 7.

Abutment #5 has minor cracking in a few of the stones and in mortar joints, also there are a few minor spalls in the concrete cap.

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 & SOLID ROCK

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

Ahead side of pier #2 has some minor insignificant scour (approximately 18"-24") with no undermining.



Asset #14367(Routine)

CR 3390 over Spadra Creek

Location: 3.56 M E CORD 76 & SH 103

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

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4

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

Comment: Asphalt wearing surface looks good.

Deck has 2 open joints .

Concrete rail has been repaired at the bridge ends and looks good.

Span #1 has a few minor cracks in the soffit area of bay #4. Typical in a few areas of both spans.

Soffit in bay #5 over pier #4 has minor spall with exposed rebar with no section loss.



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Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4

59 - Superstructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Comment: All girders have been painted throughout all spans, there is some minor old pitting near the ends of some girders throughout all spans.

Girders #1 and #7 over pier #4 have minor corrosion with minor section loss at the end of the beams.



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Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4

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

Comment: Abutment #1 - Cracking in the mortar joints, few of the stones are cracked in places and mortar is missing in a few areas.

Abutment #1 has some minor delam in the concrete cap under beam #2. There is a couple cracks in the concrete cap.

Pier #2 back side has minor spall under girder # 5, there is a moderate crack under girder #4.

Pier #2 back side has some minor cracking in the mortar joints and some missing mortar in a few areas.

Ahead side of pier #2 has some minor scour (approximately 18"-24") with no undermining.

Ahead side pier #3 has a few minor spalls in the concrete cap under girders 1, 3, 5 and 7.

Pier #4 back side has a couple minor spalls under girders 6 and 7.

Abutment #5 has minor cracking in a few of the stones and in mortar joints, also there are a few minor spalls in the concrete cap.

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.)

Comment: GRAVEL & SOLID ROCK



Elevation



Soffit in bay #5 over pier #4 has minor spall with exposed rebar with no section loss.



Span #1 has a few minor cracks in the soffit area of bay #4. Typical in a few areas of both spans.



Asphalt wearing surface looks good.



Concrete rail has been repaired and looks good.



Deck has open joints .



Girder #7 over pier #4 has minor corrosion with minor section loss at the end of the beam. Girder #1 is typical over pier #4.



Typical girders over pier #4.



Typical girders at pier #3.



Girders over pier #2



Girders over abutment #1, girders have been painted throughout all spans.



Abutment #5 has minor cracking in a few of the stones and in mortar joints, also there are a few minor spalls in the concrete cap.



Pier #4 back side has a couple minor spalls under girders 6 and 7.



Ahead side pier #3 has a few minor spalls in the concrete cap under girders 1, 3, 5 and 7.



Back side pier #3



Ahead side of pier #2 has some minor insignificant scour (approximately 18"-24") with no undermining.



Pier #2 back side has minor spall under girder # 5, there is a moderate crack under girder #4.



Pier #2 back side has some minor cracking in the mortar joints and some missing mortar in a few areas.



Abutment #1 has some minor delam in the concrete cap under beam #2. There is a couple cracks in the concrete cap.



Abutment #1 - Cracking in the mortar joints, few of the stones are cracked in places and mortar is missing in a few areas.



Ahead side of pier #2 has some minor insignificant scour (approximately 18"-24") with no undermining.

Maintenance Needs

Date Reported: 02/23/2021

Priority: C - Important

Type of Work: Repair (General)

Status: Open

Component: Superstructure

Deficiency Description

BEAMS - PAINT SYSTEM FAILED. MINOR TO MODERATE SURFACE & FRECKLED RUST ON BEAMS. MINOR TO MODERATE RUST & PITTING ON BEAMS IN SPANS 1, 2 & 3. MINOR TO MODERATE RUST & SECTION LOSS ON APPROX. 1' OF ENDS OF BEAMS AT VARIOUS LOCATIONS. SECTION LOSS MAINLY ON ENDS OF BEAMS AT PIERS 2 & 3.

Remarks

(2-13-2023 KRM and MLM - This condition no longer exists, the girders have been painted.)



Typ. Rust & Section Loss on Ends of Beams at Piers 2 & 3.



Typ. Rust & Pitting on Outside Beams.



Typ. Condition of Beams 2, 3 & 4.



Typ. Section Loss on Ends of Beams.



Girders have been painted.



Typ. Rust & Section Loss on Ends of Beams at Piers 2 & 3.



Typ. Rust & Pitting on Outside Beams.



Typ. Condition of Beams 2, 3 & 4.



Typ. Section Loss on Ends of Beams.

Maintenance Needs

Date Reported: 02/23/2021

Priority: D- Routine

Type of Work: Repair (General)

Status: Open

Component: Miscellaneous

Deficiency Description

GUARD RAIL - IMPACT DAMAGE TO END POST AT ABUTMENT 5 RT. SIDE. POST BROKE OFF.
IMPACT DAMAGE TO 1st POST AHD OF ABUTMENT 1 LT. SIDE.

Remarks

2-13-2023 KRM and MLM

Repairs have been made at the bridge ends.



Rail & Curb Broken off at Abutment 5 Rt. Side. East End



Rail & Curb Broken off at Abutment 5 Rt. Side.



Impact Damage to 1st Rail Post Ahd. of Abutment 1 Lt.
Side. West End



End of bridge rail and post on the right side.



End of span #1 on the left side rail.



2 nd. post on the left side.



Rail & Curb Broken off at Abutment 5 Rt. Side.



Rail & Curb Broken off at Abutment 5 Rt. Side. East End



Impact Damage to 1st Rail Post Ahd. of Abutment 1 Lt.
Side. West End



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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	
A-63 Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	

A-54 - Sealable Deck Cracks

A-55 - Deck Washing Needed

A-56 - Joint Cleaning/Flushing Needed



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A-57 - Beam End and Bearing Painting 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

A-63 - Missing/Incorrect Log Mile Signage

A-64 - Vegetation Removal Requested



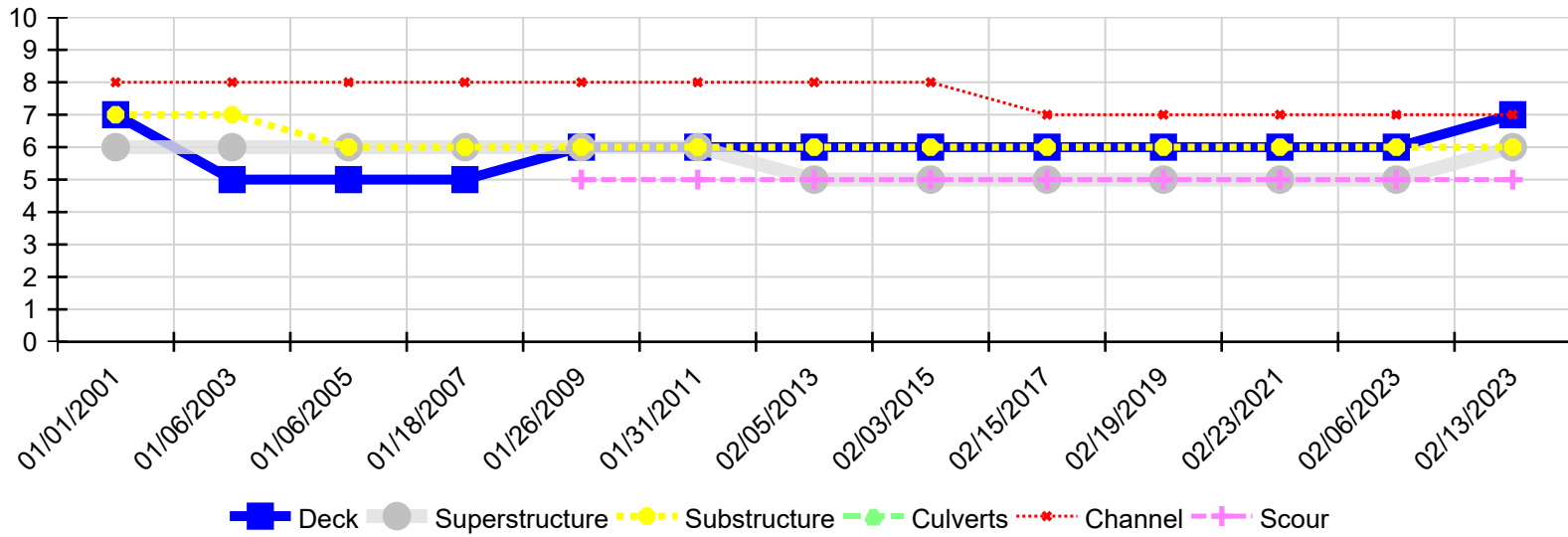
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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
02/13/2023	7	6	6	N	7	5
02/06/2023	6	5	6	N	7	5
02/23/2021	6	5	6	N	7	5
02/19/2019	6	5	6	N	7	5
02/15/2017	6	5	6	N	7	5
02/03/2015	6	5	6	N	8	5
02/05/2013	6	5	6	N	8	5
01/31/2011	6	6	6	N	8	5
01/26/2009	6	6	6	N	8	5
01/18/2007	5	6	6	N	8	N
01/06/2005	5	6	6	N	8	N
01/06/2003	5	6	7	N	8	N
01/01/2001	7	6	7	N	8	N