



Latitude:36.32222, Longitude:-93.37978

Route:62 Section:05 Log:11.71

Arnold Road ID:8x62x5xA, Arnold Log mile:11.661

District 09, 15 - Carroll County

Owner: 1 - State Highway Agency

Inspection Direction: 1 - N to S

Bridge Posting Information

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

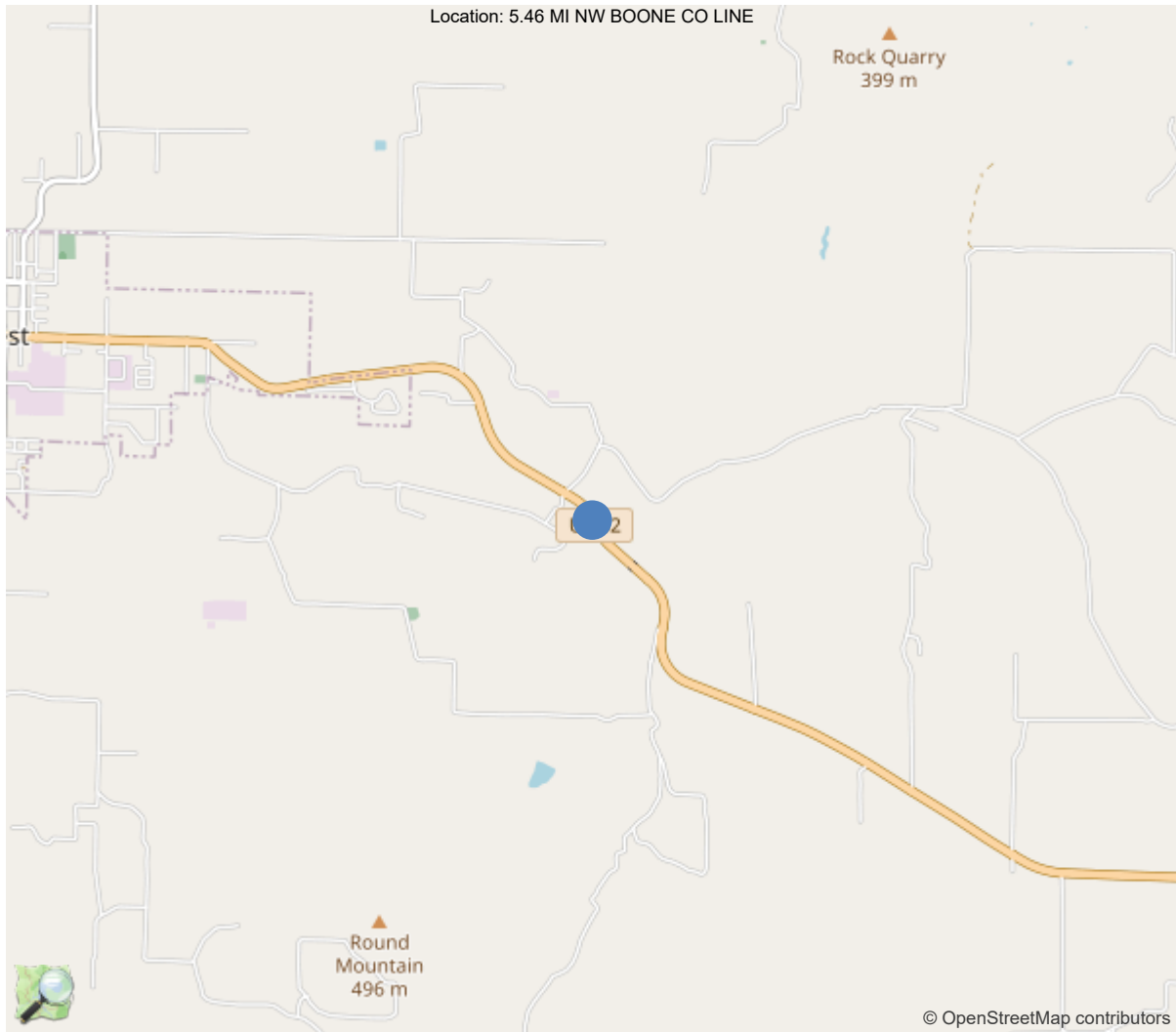
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	40		
Code 9 (31 Tons)	50		
Code 5 (40 Tons)	58		

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



36.32222, -93.37978



Asset #06396(Routine)

US 62 S-5 Carroll over DRY CREEK

Location: 5.46 MI NW BOONE CO LINE

Team Lead: Nathan Rowland Inspection Date: 08/08/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	06396
(5) Inventory Route	1
(2) Highway Agency District	09 - District 09
(3) County Code	15 - Carroll County
(4) Place Code	0
(6) Features Intersected	DRY CREEK
(7) Facility Carried	US 62 S-5 Carroll
(9) Location	5.46 MI NW BOONE CO LINE
(11) Mile Point	11.71 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000062050
(16) Latitude	36.32222
(17) Longitude	-93.37978
(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 pl
Type of Membrane	0 - None
Type of Deck Protection	1 - Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	1992
(106) Year Reconstructed	0
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	4
Under	0
(29) Average Daily Traffic	6899
(30) Year of ADT	2016
(109) Truck ADT	1 %
(19) Bypass, Detour Length	28 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	77 ft
(49) Structure Length	234 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	68 ft
(52) Deck Width Out to Out	71 ft
(32) Approach Roadway Width (W/Shoulders)	68 ft
(33) Bridge Median	0 - No median
(34) Skew	45 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	69.2 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 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	6 - Rural Minor Arterial
(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	1 - The inventory route is par
(20) Toll	3 - On free road. The structu
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
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	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	
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	
(68) Deck Geometry	9
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	9
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	1 - Inspected feature meets current
(36C) Approach Guardrail	1 - Inspected feature meets current
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(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	7465
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	08/08/2023		
(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.			

Team Lead: Nathan Rowland, Inspection Date: 08/08/2023

IDENTIFICATION	
B.ID.01 Bridge Number	06396
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	
B.W.01 Year Built	

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	15 - Carroll County
B.L.03 Place Code	00000 - N/A
B.L.04 Highway Agency District	09 - District 09
B.L.05 Latitude	36.32222
B.L.06 Longitude	-93.37978
B.L.07 Border Bridge Number	
B.L.08 Border Bridge State or Country Code	
B.L.09 Border Bridge Insp. Resp.	
B.L.10 Border Bridge Designated Lead State	
B.L.11 Bridge Location	
B.L.12 Metropolitan Planning Organization	

CLASSIFICATION	
B.CL.01 Owner	
B.CL.02 Maint. Responsibility	
B.CL.03 Federal or Tribal Land Access	
B.CL.04 Historic Significance	
B.CL.05 Toll	
B.CL.06 Emergency Evacuation Designation	

ROADSIDE HARDWARE	
B.RH.01A Bridge Railing Type	
B.RH.01B Bridge Railing Year (YY)	
B.RH.01C Bridge Railing Test Level	
B.RH.02A Transition Type	
B.RH.02B Transition Year (YY)	
B.RH.02C Transition Test Level	

BRIDGE GEOMETRY	
B.G.01 NBIS Bridge Length	
B.G.02 Total Bridge Length	
B.G.03 Max Span Length	
B.G.04 Min Span Length	
B.G.05 Bridge Width Out-to-Out	
B.G.06 Bridge Width Curb-to-Curb	
B.G.07 Left Curb or Sidewalk Width	
B.G.08 Right Curb or Sidewalk Width	
B.G.09 Approach Roadway Width	

B.G.10 Bridge Median	
B.G.11 Skew	
B.G.12 Curved Bridge	
B.G.13 Max Bridge Height	
B.G.14 Sidehill Bridge	
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	

LOADS AND LOAD RATING	
B.LR.01 Design Load	
B.LR.02 Design Method	
B.LR.03 Load Rating Date	
B.LR.04 Load Rating Method	
B.LR.05 Inventory Load Rating Factor	
B.LR.06 Operating Load Rating Factor	
B.LR.07 Controlling Legal Load Rating Factor	
B.LR.08 Routine Permit Loads	

INSPECTION REQUIREMENTS	
B.IR.01 NSTM Inspection Required	
B.IR.02 Fatigue Details	
B.IR.03 UW Inspection Required	
B.IR.04 Complex Feature	

COMPONENT CONDITION RATINGS	
B.C.01 Deck Condition Rating	
B.C.02 Superstructure Condition	
B.C.03 Substructure Condition	
B.C.04 Substructure Condition	
B.C.05 Bridge Railing Condition	
B.C.06 Bridge Railing Transitions Condition	
B.C.07 Bridge Bearings Cond.	
B.C.08 Bridge Joints Condition	
B.C.09 Channel Condition Rating	
B.C.10 Channel Protection Condition	
B.C.11 Scour Condition Rating	
B.C.12 Bridge Condition Classification	
B.C.13 Lowest Condition Rating	
B.C.14 NSTM Insp. Condition	
B.C.15 UW Inspection Condition	

APPRAISAL	
B.AP.01 Approach Roadway Alignment	
B.AP.02 Overtopping Likelihood	
B.AP.03 Scour Vulnerability	
B.AP.04 Scour Plan of Action	
B.AP.05 Seismic Vulnerability	



Team Lead: Nathan Rowland, **Inspection Date:** 08/08/2023

POSTING STATUS DATA	
B.PS.01 Load Posting Status	B.PS.02 Posting Status Change Date

LOAD EVALUATION AND POSTING			
B.EP.01 Legal Load Configuration	B.EP.02 Legal Load Rating Factor	B.EP.03 Posting Type	B.EP.04 Posting Value



Asset #06396(Routine)

US 62 S-5 Carroll over DRY CREEK

Location: 5.46 MI NW BOONE CO LINE

Team Lead: Nathan Rowland **Inspection Date:** 08/08/2023

General Observation

8-8-2023 WNR & DBM: Routine inspection conducted this date. See element notes for documentation.

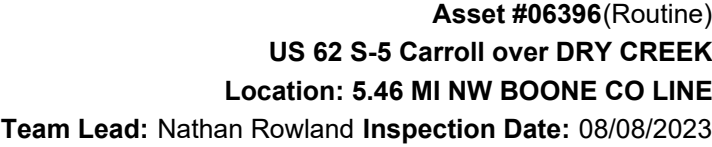
Structure is logged from NW to SE, and is accessible with a small extension ladder.
No bat activity was noted.

A-54 - Sealable Deck Cracks (Y)

See element notes

A-59 - Joint Repair Needed (Y)

See Maintenance Needs



Asset #06396(Routine)
US 62 S-5 Carroll over DRY CREEK
Location: 5.46 MI NW BOONE CO LINE
Team Lead: Nathan Rowland **Inspection Date:** 08/08/2023



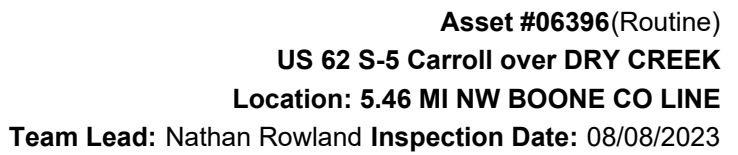
Asset #06396(Routine)

US 62 S-5 Carroll over DRY CREEK

Location: 5.46 MI NW BOONE CO LINE

Team Lead: Nathan Rowland Inspection Date: 08/08/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	8	3	5	0	0
1190	Abrasion/Wear (PSC/RC)	EA	5	0	5	0	0
(205) 8-8-2023 WNR & DBM:							
Bent #1 columns- column #4 has cs2 abrasion on the lower portion for 3'. Column #4 has the top of the footing exposed with 8" of vertical face exposed. The 2019 inspection had 10" of vertical face exposed at this location.							
Bent #2 columns- All 4 columns have cs2 abrasion on the lower portion.							
215	Reinforced Concrete Abutment	LF	240	185	55	0	0
1080	Delamination/Spall/Patched Area	LF	11	0	11	0	0
1120	Efflorescence/Rust Staining	LF	23	0	23	0	0
1130	Cracking (RC and Other)	LF	21	0	21	0	0
(215) 8-8-2023 WNR & DBM:							
Abutment #1- the top of the back wall (driving surface) has shallow spalling next to the armoring plate. The abutment has 31' total of hairline cracking. 15' of the cracks in the back wall have efflorescence and 6 vertical cracks without efflorescence. 10' of horizontal hairline cracking in the left bridge seat. Some cracks occupy the same footage. The rip rap is in place and functioning as intended.							
Abutment #2- has 8' of hairline vertical cracking in the back wall, 6 of these have efflorescence, with 4' of vertical hairline cracking in the bridge seat. The rip rap is in place and functioning as intended.							
220	Reinforced Concrete Pile Cap/Footing	LF	9	7	2	0	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
(220) 8-8-2023 WNR & DBM:							
Bent #1- the column #4 footing has 9' of the top of the footing exposed with 8" of vertical face exposed. The footing has 1' of cs2 spalling at the upstream and downstream corners. The 2019 inspection showed 10" of vertical face of the footing exposed.							
234	Reinforced Concrete Pier Cap	LF	180	124	12	44	0
1080	Delamination/Spall/Patched Area	LF	41	0	0	41	0
1090	Exposed Rebar	LF	3	0	0	3	0
1120	Efflorescence/Rust Staining	LF	3	0	3	0	0
1130	Cracking (RC and Other)	LF	9	0	9	0	0
(234) 8-8-2023 WNR & DBM:							
The right pier cap is in worse condition than the left pier cap.							
Bent #1 cap- has 28' total of delamination on the span #2 face and right cap end and 1' of cs3 exposed rebar on the underside of the left cap cantilever. The cap has 5' of cracking that is not in an area of quantified delamination.							
Bent #2 cap- has 13' of delamination, 3' total of horizontal hairline cracking with efflorescence with 4' of hairline vertical cracking, and 1' of cs3 exposed rebar on the left cap end and 1' on the span #2 side next to column #3.							
302	Compression Joint Seal	LF	400	0	389	11	0
2310	Leakage	LF	178	0	167	11	0



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
2320	Seal Adhesion	LF	158	0	158	0	0
2330	Seal Damage	LF	64	0	64	0	0
(302) 8-8-2023 WNR & DBM:							
Abutment #1 seal- is leaking for the full width of the abutment with pack rust on the armoring plates that is causing the seal to lose adhesion and leak.							
Bent #1 seal- has pack rust on the armoring plates that is causing the seal to lose adhesion and leak.							
Bent #2 seal- has pack rust on the armoring plates that is causing the seal to lose adhesion and leak.							
Abutment #2 seal- has 64' of damage with pack rust on the armoring plates that is causing the seal to lose adhesion and leak.							
311	Movable Bearing	EA	30	0	8	22	0
1000	Corrosion	EA	30	0	8	22	0
515	Steel Protective Coating	SF	30	0	0	8	22
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	EA	30	0	0	8	22
(311) 8-8-2023 WNR & DBM:							
Abutment #1 moveable bearings- 9 of the 10 have cs3 corrosion with flaking rust and minor section loss. Bearing #5 has cs2 corrosion due to leaking joint seals. Bearing #10 at abutment #1 has the exterior anchor bolt missing.							
Bent #1 bearings- 7 of 10 moveable bearings have cs3 corrosion with flaking rust, the remaining 3 have cs2 corrosion.							
Bent #2 bearings- bearings #1,5,6,7,8,9 have cs3 corrosion. Bearings #2,3,4,10 have cs2 corrosion.							
313	Fixed Bearing	EA	30	7	7	16	0
1000	Corrosion	EA	23	0	7	16	0
515	Steel Protective Coating	SF	30	7	0	7	16
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	EA	23	0	0	7	16
(313) 8-8-2023 WNR & DBM:							
Bent #1 bearings- 7 of the 10 fixed bearings at bent #1 have cs3 corrosion with flaking rust, the remaining 3 have cs2 corrosion.							
Bent #2 fixed bearings- bearings #1,6,7,8,9 have cs3 corrosion. Bearings 2,3,4,5 have cs2 corrosion. Bearing #10 has no deficiencies.							
Abutment #2 bearings- bearings #1,6,8,9 have cs3 corrosion, all others are in cs1.							
331	Reinforced Concrete Bridge Railing	LF	468	372	96	0	0
1130	Cracking (RC and Other)	LF	96	0	96	0	0
(331) 8-8-2023 WNR & DBM:							
Right parapet wall - has hairline vertical cracks at random locations and at the saw joints and drain areas.							
Left parapet wall - has hairline vertical cracks at random locations and at the saw joints and drain areas.							



Elevation looking west



View of abutment #1 bearing area



Bent #1 girders at bearing #7 have flaking rust adjacent to expansion joint



Span #2 View of superstructure



Bent #2 left side ahead side



Inventory looking South



General view of deck



View of joint at abutment #1



Downstream view



View of joint at bent #1



View of joint at bent #2



View of joint at abutment #2

Maintenance Needs

Date Reported: 08/31/2021

Priority: C - Important

Type of Work: Repair (General)

Status: Repair Documented

Component:

Deficiency Description

The left ending approach railing has vehicle damage.

Remarks

Carroll Co.

8/8/2023 WNR: The left ending approach railing has vehicle damage. Repaired since the last inspection



08/08/2023

The left ending approach railing has vehicle damage.
Repaired since the last inspection



08/30/2021

The left ending approach railing has vehicle damage.

Maintenance Needs

Date Reported: 08/22/2011

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 9 - None

Status: Monitor

Component:

Deficiency Description

Deck- the expansion joints have leakage and loss of adhesion that is causing heavy corrosion of the beam ends and bearings.

Remarks



Condition of joint seal #2. Typical of joint seal # 2,3.



Seal condition at bent #1.



15' of Cs3 corrosion on beam #6 at the end of span #1.



Asset #06396(Routine)

US 62 S-5 Carroll over DRY CREEK

Location: 5.46 MI NW BOONE CO LINE

Team Lead: Nathan Rowland **Inspection Date:** 08/08/2023

Maintenance Needs

Date Reported: 08/22/2011

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 9 - None

Status: Monitor

Component:

Deficiency Description

The deck driving surface has sealable longitudinal cracks in all spans.

Remarks

Maintenance Needs

Date Reported: 08/22/2011

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 9 - None

Status: Monitor

Component:

Deficiency Description

The beam ends, bottom flanges and bearings under the joint seal locations have corrosion due to leaking joint seals.

Remarks



Typical bottom flange corrosion in span #1. Typical of many locations.

Maintenance Needs

Date Reported: 08/22/2017

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 9 - None

Status: Monitor

Component:

Deficiency Description

The exterior anchor bolt is missing on beam #10 at abutment #1.

Remarks



Missing anchor bolt under beam #10.



Asset #06396(Routine)

US 62 S-5 Carroll over DRY CREEK

Location: 5.46 MI NW BOONE CO LINE

Team Lead: Nathan Rowland Inspection Date: 08/08/2023

Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	Yes
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	Yes
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 (Yes)

See element notes

A-55 - Deck Washing Needed

A-56 - Joint Cleaning/Flushing Needed



Asset #06396(Routine)

US 62 S-5 Carroll over DRY CREEK

Location: 5.46 MI NW BOONE CO LINE

Team Lead: Nathan Rowland Inspection Date: 08/08/2023

A-57 - Girder End and Bearing Painting Needed

A-58 - Cap Cleaning/Flushing Needed

A-59 - Joint Repair Needed (Yes)
See Maintenance Needs

A-60 - Full Girder 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



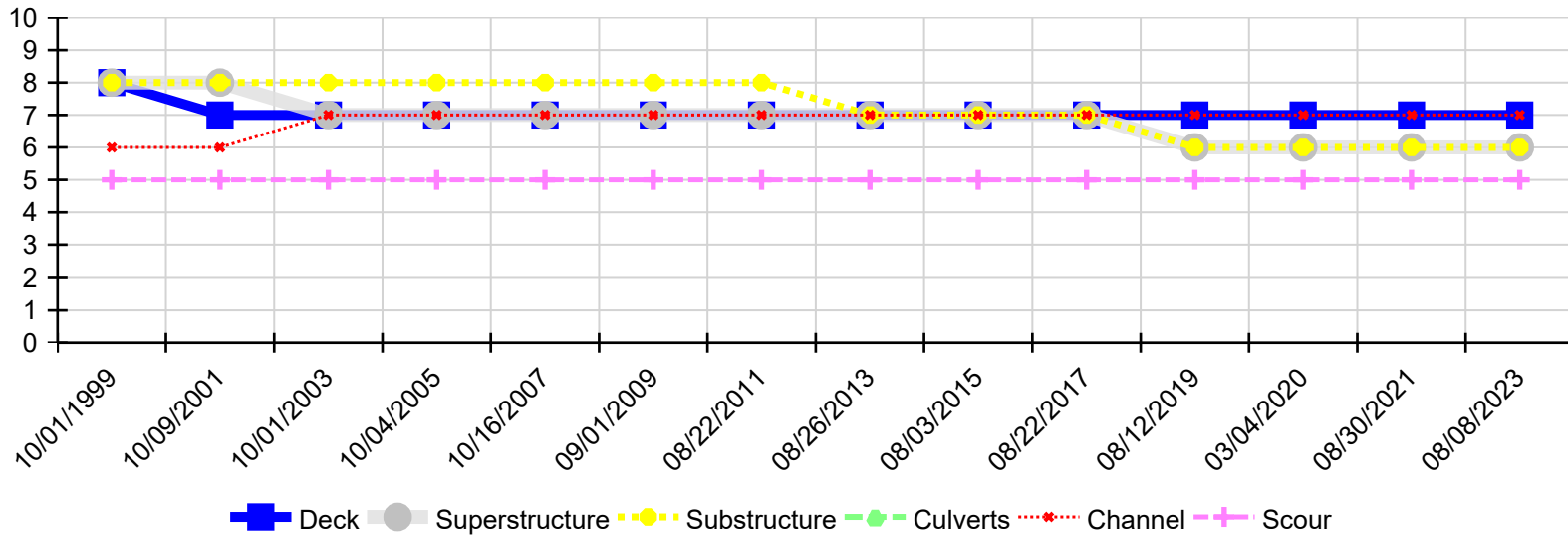
Asset #06396(Routine)

US 62 S-5 Carroll over DRY CREEK

Location: 5.46 MI NW BOONE CO LINE

Team Lead: Nathan Rowland Inspection Date: 08/08/2023

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
08/08/2023	7	6	6	N	7	5
08/30/2021	7	6	6	N	7	5
03/04/2020	7	6	6	N	7	5
08/12/2019	7	6	6	N	7	5
08/22/2017	7	7	7	N	7	5
08/03/2015	7	7	7	N	7	5
08/26/2013	7	7	7	N	7	5
08/22/2011	7	7	8	N	7	5
09/01/2009	7	7	8	N	7	5
10/16/2007	7	7	8	N	7	5
10/04/2005	7	7	8	N	7	5
10/01/2003	7	7	8	N	7	5
10/09/2001	7	8	8	N	6	5
10/01/1999	8	8	8	N	6	5