



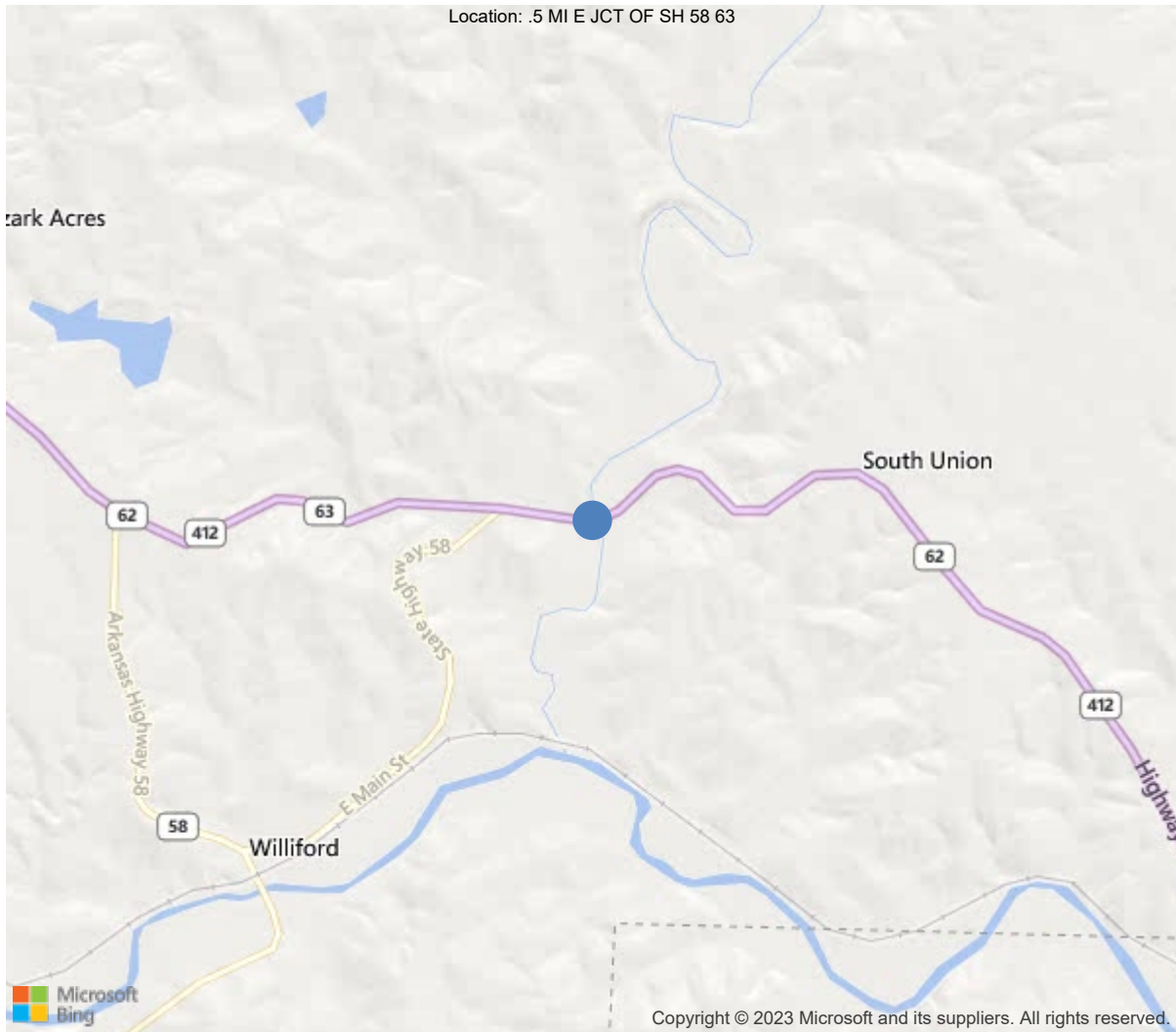
Latitude:36.27330, Longitude:-91.33345

Route:63 Section:02 Log:11.86

Arnold Road ID:67x63x2xA, Arnold Log mile:11.813

District 05, 135 - Sharp County

Owner: 1 - State Highway Agency



36.27330, -91.33345





Asset #03406(Routine)

US 63/Sharp Co. over MARTIN CREEK

Location: .5 MI E JCT OF SH 58 63

Team Lead: Kerry Little, Inspection Date: 06/20/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	03406
(5) Inventory Route	1
(2) Highway Agency District	05 - District 05
(3) County Code	135 - Sharp County
(4) Place Code	0
(6) Features Intersected	MARTIN CREEK
(7) Facility Carried	US 63/Sharp Co.
(9) Location	.5 MI E JCT OF SH 58 63
(11) Mile Point	11.86 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000063020
(16) Latitude	36.2733
(17) Longitude	-91.33345
(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 pl
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1961
(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	6300
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	40 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	45 ft
(49) Structure Length	227 ft
(50) Curb or Sidewalk Width	
Left	1.4 ft
Right	1.4 ft
(51) Bridge Roadway Width Curb to Curb	27.9 ft
(52) Deck Width Out to Out	33.6 ft
(32) Approach Roadway Width (W/Shoulders)	36.1 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	28.5 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	1
(26) Functional Class	2 - Rural Principal Arterial -
(100) Defense Highway	2 - The inventory route is on
(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	4
(59) Superstructure	4
(60) Substructure	6
(61) Channel & Channel Protection	6
(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	19
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	11
(70) Bridge Posting	3 - 10.0 - 19.9 % below
(41) Structure Open/Posted/Closed	P - Posted for load (may inclu
APPRAISAL	
(67) Structural Evaluation	6
(68) Deck Geometry	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	7
(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	8 - 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	7166
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	06/20/2023		
(91) Frequency	12		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
* 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.			



Asset #03406(Routine)

District: 05, County: 135 - Sharp County

Team Lead: Kerry Little, Inspection Date: 06/20/2023

### General Observation

Elevation with Log Mile running to the Right.

Equipment used: Aspen A40 Snooper, Skydio S2+ Drone, Ipad.

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**59 - Superstructure** (4 - POOR CONDITION - advanced section loss, deterioration, spalling or scour.)

See attached Form-III for detailed locations and descriptions of deficiencies.

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**A-19 - Code 4 (Beginning)** (Null)

Load Posting @ Abutment 1.

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**A-20 - Code 4 (end)** (Null)

Load Posting @ Abutment 2.

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**A-46 - Asset Files**

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**A-51 - Inspection Direction** (4 - W to E)

Roadway with Log Mile running West to East.

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## US 63/Sharp Co. over MARTIN CREEK

**Location: .5 MI E JCT OF SH 58 63**

**Team Lead:** Kerry Little, **Inspection Date:** 06/20/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	7627	0	7052	575	0
1080	Delamination/Spall/Patched Area	SF	2121	0	1971	150	0
1090	Exposed Rebar	SF	31	0	5	26	0
1120	Efflorescence/Rust Staining	SF	280	0	221	59	0
1130	Cracking (RC and Other)	SF	1602	0	1262	340	0
1190	Abrasion/Wear (PSC/RC)	SF	3593	0	3593	0	0
(12) Moderate cracks to deck. Some have been sealed. Scaling & areas of delam. to deck. (most patches are in good condition)  Spans 2 - 5 have spalls with rebar exposed, some with efflor. to soffit. Spalls to Lt. & Rt. overhangs, some with rebar exposed. Transverse cracks to soffit, some with efflor. Several full depth patches @ Span 2 & 4. See attached Form-III for detailed locations and descriptions of deficiencies.							
107	Steel Open Girder/Beam	LF	1125	497	385	239	4
1000	Corrosion	LF	623	0	380	239	4
1900	Distortion	LF	5	0	5	0	0
515	Steel Protective Coating	SF	8550	6731	0	1200	619
3440	Effectiveness (Steel Protective Coatings)	LF	1819	0	0	1200	619
(107) Rust & section loss to ends of girders & bottom flanges @ all spans. Severe s/l with hole in bottom flange @ Girder 2 @ end of Span 1. Holes in web below paving haunch @ end of Span 2 Girder 4 & end of Span 4 Girder 4. See attached Form-III for detailed locations and descriptions of deficiencies.							
205	Reinforced Concrete Column	EA	8	4	0	4	0
1090	Exposed Rebar	EA	3	0	0	3	0
1130	Cracking (RC and Other)	EA	1	0	0	1	0
(205) Spall with rebar exposed with s/l & cracking to Column 1 @ Bent 2 ahead.							
210	Reinforced Concrete Pier Wall	LF	72	48	13	11	0
1080	Delamination/Spall/Patched Area	LF	6	0	6	0	0
1090	Exposed Rebar	LF	11	0	0	11	0
1130	Cracking (RC and Other)	LF	7	0	7	0	0
(210) Few areas of delam. & spalls with rebar exposed @ piers. Spall with rebar exposed, efflor. cracking & chemical deterioration @ Lt. end of Bent #4. Minor full height vertical cracks @ piers.  Minor scour on Rt. side of Bent #2 & #3. Top of footings exposed.							

## US 63/Sharp Co. over MARTIN CREEK

**Location: .5 MI E JCT OF SH 58 63**

**Team Lead:** Kerry Little, **Inspection Date:** 06/20/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	76	76	0	0	0
220	Reinforced Concrete Pile Cap/Footing	LF	28	0	28	0	0
6000	Scour	LF	28	0	28	0	0
(220) Footings exposed @ Bents 1, 2 & 3.							
234	Reinforced Concrete Pier Cap	LF	115	83	10	20	2
1080	Delamination/Spall/Patched Area	LF	8	0	6	0	2
1090	Exposed Rebar	LF	14	0	0	14	0
1120	Efflorescence/Rust Staining	LF	5	0	1	4	0
1130	Cracking (RC and Other)	LF	5	0	3	2	0
(234) Debris on cap, typical at all joints. Efflorescent map cracking & spalls with 6' rebar exposed to Left, Right and ahead side of cap @ Bent 4. See attached Form-III for detailed locations and descriptions of deficiencies.							
301	Pourable Joint Seal	LF	34	27	0	7	0
2350	Debris Impaction	LF	7	0	0	7	0
(301) Debris in joint.							
305	Assembly Joint without Seal	LF	170	170	0	0	0
(305) Cover plate removed @ Bent 1.							
311	Movable Bearing	EA	20	0	0	20	0
1000	Corrosion	EA	10	0	0	10	0
1020	Connection	EA	10	0	0	10	0
515	Steel Protective Coating	SF	40	0	0	0	40
3440	Effectiveness (Steel Protective Coatings)	EA	40	0	0	0	40
(311) Rust & section loss to bearings and anchor bolts. Some bolts are loose or missing. See attached Form-III for detailed locations and descriptions of deficiencies.							
313	Fixed Bearing	EA	30	2	0	18	10
1000	Corrosion	EA	23	0	0	13	10
1020	Connection	EA	5	0	0	5	0
515	Steel Protective Coating	SF	60	0	0	16	44
3440	Effectiveness (Steel Protective Coatings)	EA	60	0	0	16	44
(313) Rust & section loss to bearings and anchor bolts. Some bolts are loose or missing. See attached Form-III for detailed locations and descriptions of deficiencies.							
330	Metal Bridge Railing	LF	454	454	0	0	0
515	Steel Protective Coating	SF	1362	1362	0	0	0
(330) A few transverse cracks & spalls to Left @ Right curbs.							

## US 63/Sharp Co. over MARTIN CREEK

**Location: .5 MI E JCT OF SH 58 63**

**Team Lead:** Kerry Little, **Inspection Date:** 06/20/2023

## Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	7627	0	7052	575	0
1080	Delamination/Spall/Patched Area	SF	2121	0	1971	150	0
1090	Exposed Rebar	SF	31	0	5	26	0
1120	Efflorescence/Rust Staining	SF	280	0	221	59	0
1130	Cracking (RC and Other)	SF	1602	0	1262	340	0
1190	Abrasion/Wear (PSC/RC)	SF	3593	0	3593	0	0
(12) Moderate cracks to deck. Some have been sealed. Scaling & areas of delam. to deck. (most patches are in good condition)							
Spans 2 - 5 have spalls with rebar exposed, some with efflor. to soffit. Spalls to Lt. & Rt. overhangs, some with rebar exposed. Transverse cracks to soffit, some with efflor. Several full depth patches @ Span 2 & 4. See attached Form-III for detailed locations and descriptions of deficiencies.							





Asset #03406(Routine)

US 63/Sharp Co. over MARTIN CREEK

Location: .5 MI E JCT OF SH 58 63

Team Lead: Kerry Little, Inspection Date: 06/20/2023

**Superstructure**

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	1125	497	385	239	4
1000	Corrosion	LF	623	0	380	239	4
1900	Distortion	LF	5	0	5	0	0
515	Steel Protective Coating	SF	8550	6731	0	1200	619
3440	Effectiveness (Steel Protective Coatings)	LF	1819	0	0	1200	619
(107) Rust & section loss to ends of girders & bottom flanges @ all spans. Severe s/l with hole in bottom flange @ Girder 2 @ end of Span 1. Holes in web below paving haunch @ end of Span 2 Girder 4 & end of Span 4 Girder 4. See attached Form-III for detailed locations and descriptions of deficiencies.							

**59 - Superstructure** (4 - POOR CONDITION - advanced section loss, deterioration, spalling or scour.)

Comment: See attached Form-III for detailed locations and descriptions of deficiencies.

## US 63/Sharp Co. over MARTIN CREEK

**Location: .5 MI E JCT OF SH 58 63**

**Team Lead:** Kerry Little, **Inspection Date:** 06/20/2023

## Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	8	4	0	4	0
1090	Exposed Rebar	EA	3	0	0	3	0
1130	Cracking (RC and Other)	EA	1	0	0	1	0
(205) Spall with rebar exposed with s/l & cracking to Column 1 @ Bent 2 ahead.							
210	Reinforced Concrete Pier Wall	LF	72	48	13	11	0
1080	Delamination/Spall/Patched Area	LF	6	0	6	0	0
1090	Exposed Rebar	LF	11	0	0	11	0
1130	Cracking (RC and Other)	LF	7	0	7	0	0
(210) Few areas of delam. & spalls with rebar exposed @ piers. Spall with rebar exposed, efflor. cracking & chemical deterioration @ Lt. end of Bent #4. Minor full height vertical cracks @ piers.  Minor scour on Rt. side of Bent #2 & #3. Top of footings exposed.							
215	Reinforced Concrete Abutment	LF	76	76	0	0	0
220	Reinforced Concrete Pile Cap/Footing	LF	28	0	28	0	0
6000	Scour	LF	28	0	28	0	0
(220) Footings exposed @ Bents 1, 2 & 3.							
234	Reinforced Concrete Pier Cap	LF	115	83	10	20	2
1080	Delamination/Spall/Patched Area	LF	8	0	6	0	2
1090	Exposed Rebar	LF	14	0	0	14	0
1120	Efflorescence/Rust Staining	LF	5	0	1	4	0
1130	Cracking (RC and Other)	LF	5	0	3	2	0
(234) Debris on cap, typical at all joints. Efflorescent map cracking & spalls with 6' rebar exposed to Left, Right and ahead side of cap @ Bent 4. See attached Form-III for detailed locations and descriptions of deficiencies.							



Asset #03406(Routine)

US 63/Sharp Co. over MARTIN CREEK

Location: .5 MI E JCT OF SH 58 63

Team Lead: Kerry Little, Inspection Date: 06/20/2023

## Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4





Elevation with Log Mile going right.



Roadway with log mile looking east.



Heavy rust with section loss to girder 1 @ beginning of span 5. Holes to bottom flange on each side of web.



Hole in web below paving haunch @ girder 3, end of span 4.





Heavy rust with section loss to girders 2 & 3 @ beginning of span 4.



Spalls with rebar exposed to column 1 @ ahead side of bent 3.



Heavy rust with section loss to bottom of web & flange to girder 2, end of span 3.



Cracking to column 1 @ ahead side of bent 2.





Typical rust to ends of girders @ all spans.  
Girder 3, end of span 2.



Spall with rebar exposed with section loss to Lt overhang @  
span 2.



Spall with rebar exposed with section loss to pier wall @  
ahead side of bent 1.



Overall soffit @ span 2.





Broken weld to sole plate of bearing 2 @ end of span 1.



Typical efflor cracks to soffit @ all spans.  
Span 1



Typical rust to ends of girders @ all spans.



Spall with rebar exposed to rt end of cap with section loss @  
backside of bent 1.





Upstream



Downstream



Load posting sign @ abutment 2.



Typical patched areas to 90% of deck.





Overall deck



Load posting sign @ abutment 1.



**Maintenance Needs**

**Date Reported:** 06/22/2023

**Priority:** A - Safety deficiency; requires prompt action

**Status:** Open

**Type of Work:** Superstructure Repair

**Component:** Superstructure

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**Deficiency Description**

Heavy rust with section loss to girder 1 @ beginning of span 5. Holes to bottom flange on each side of web.

**Remarks**

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Heavy rust with section loss to girder 1 @ beginning of span 5. Holes to bottom flange on each side of web.



Heavy rust with section loss to girder 1 @ beginning of span 5. Holes to bottom flange on each side of web.

**Maintenance Needs**

**Date Reported:** 06/22/2023

**Priority:** B - Pressing

**Type of Work:** Repair (General)

**Status:** Open

**Component:**

---

**Deficiency Description**

Rust and section loss, some with holes to ends of girders and bottom flange at all spans.  
Holes in Girders @: Span2 Girder 4 at end of span. Span 4 Girders 3, 4 at end of span.

**Remarks**

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Rust and section loss to ends of girders and bottom flange at all spans.



Rust and section loss, some with holes to ends of girders and bottom flange at all spans.  
Hole in web of Girder #4 at end of Span #2.



Rust and section loss to ends of girders and bottom flange at all spans.



Heavy rust with section loss to girder 1 @ beginning of span 5. Holes to bottom flange on each side of web.





Heavy rust with section loss to girder 1 @ beginning of span 5. Holes to bottom flange on each side of web.



Heavy rust with section loss to girder 1 @ beginning of span 5. Holes to bottom flange on each side of web.



Rust and section loss, some with holes to ends of girders and bottom flange at all spans.  
Girder 1, end of span 2.



Rust and section loss, some with holes to ends of girders and bottom flange at all spans.  
Girder 2, end of span 2.



Rust and section loss, some with holes to ends of girders and bottom flange at all spans.

Hole to web below paving haunch @ girder 4, end of span 2.



**Maintenance Needs**

**Date Reported:** 06/23/2015

**Priority:** C - Important

**Type of Work:** Repair (General)

**Status:** Monitor

**Component:**

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**Deficiency Description**

Bents #2 & #3

Scour to right side - top of footings exposed.

**Remarks**

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Bents #2 & #3

Scour to right side - top of footings exposed.



Bents #2 & #3

Scour to right side - top of footings exposed.

**Maintenance Needs**

**Date Reported:** 06/23/2015

**Priority:** C - Important

**Type of Work:** Substructure Repair

**Status:** Open

**Component:**

---

**Deficiency Description**

Efflor. map cracking, chemical deterioration, and spalls w/ rebar exposed & loss of bearing area to left end of cap at Bent #4

**Remarks**

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Efflor. map cracking, chemical deterioration, and spalls w/ rebar exposed to left end of cap at bent #4



Efflor. map cracking, chemical deterioration, and spalls w/ rebar exposed & loss of bearing area to left end of cap at bent #4



DEfflor. map cracking, chemical deterioration, and spalls w/ rebar exposed to left end of cap at bent #4



Efflor. map cracking, chemical deterioration, and spalls w/ rebar exposed to left end of cap at bent #4



**Maintenance Needs**

**Date Reported:** 06/23/2015

**Priority:** C - Important

**Type of Work:** Replace (General)

**Status:** Monitor

**Component:**

---

**Deficiency Description**

Bents #1, #2, #3 & #4

Section loss to anchor bolts with some missing.

**Remarks**

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Bents #1, #2, #3 & #4

Section loss to anchor bolts with some loose or missing.



Bents #1, #2, #3 & #4

Section loss to anchor bolts with some missing.  
Broken bolt @ bearing 4, end of span 1.

**Maintenance Needs**

**Date Reported:** 07/07/2022

**Priority:** C - Important

**Type of Work:** Repair (General)

**Status:** Assigned

**Component:** Element

---

**Deficiency Description**

Diaphragm between Girders 1 & 2 @ end of Span 1 is not connected @ Girder 2. REPAIRED

**Remarks**

Assigned to Bridge Crew - 8/12/2022

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Diaphragm between Girders 1 & 2 @ end of Span 1 is not connected @ Girder 2.

**Maintenance Needs**

**Date Reported:** 06/23/2015

**Priority:** D- Routine

**Type of Work:** Repair (General)

**Status:** Monitor

**Component:**

---

**Deficiency Description**

Spans #2 - #5 have spalls w/ rebar exposed, some with efflor. to soffit.

**Remarks**

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Spans #2 - #5 have spalls w/ rebar exposed, some with efflor. to soffit.



Spans #2 - #5 have spalls w/ rebar exposed, some with efflor. to soffit.  
Span 2, between girders 2 & 3.



**Maintenance Needs**

**Date Reported:** 06/23/2015

**Priority:** D- Routine

**Type of Work:** (Inactive) (Inactive) 1 - Clean

**Status:** Monitor

**Component:**

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**Deficiency Description**

Debris on caps at all spans.

**Remarks**

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Typical debris on cap @ all spans.



Debris on caps at all spans.



**Asset #03406(Routine)**

**US 63/Sharp Co. over MARTIN CREEK**

**Location: .5 MI E JCT OF SH 58 63**

**Team Lead: Kerry Little, Inspection Date: 06/20/2023**

## **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	Yes
A-57 - Beam End and Bearing Paint Needed	Yes
A-58 - Cap Cleaning/Flushing Needed	Yes
A-59 - Joint Repair Needed	Yes
A-60 - Full Beam Painting Needed	
A-61 - Polymer Overlay Advised	
A-62 - Hydro and LMC Advised	No
A-63 Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	



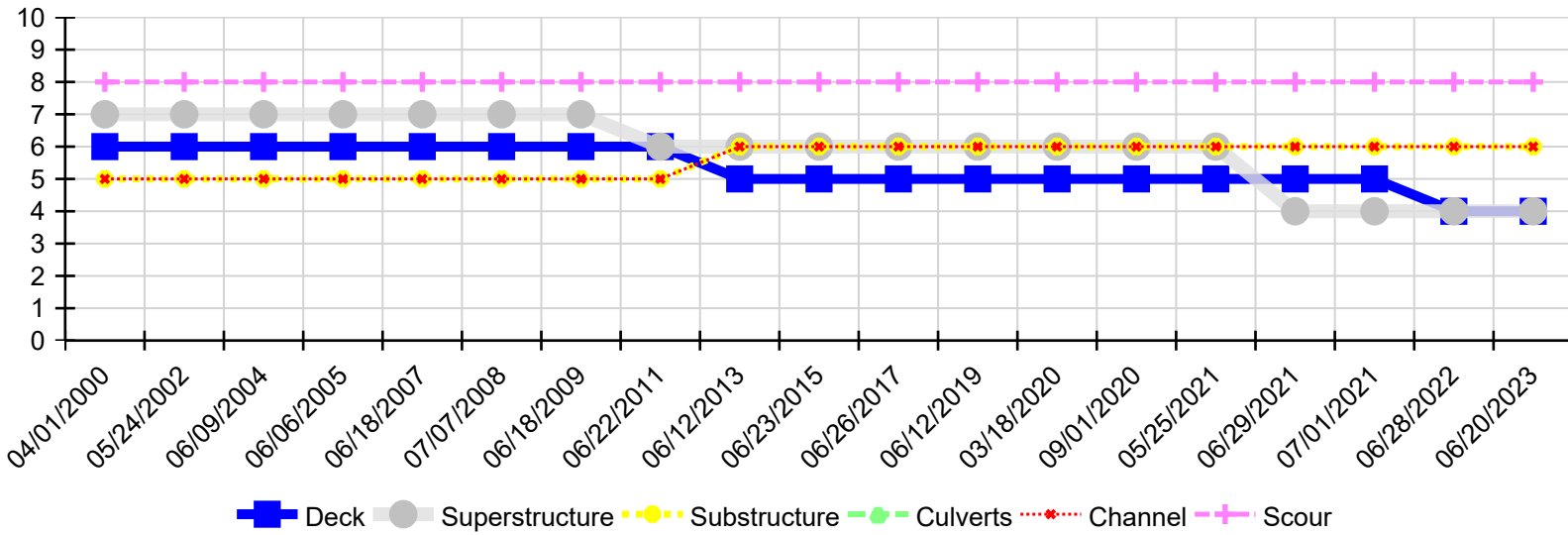
Asset #03406(Routine)

US 63/Sharp Co. over MARTIN CREEK

Location: .5 MI E JCT OF SH 58 63

Team Lead: Kerry Little, Inspection Date: 06/20/2023

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
06/20/2023	4	4	6	N	6	8
06/28/2022	4	4	6	N	6	8
07/01/2021	5	4	6	N	6	8
06/29/2021	5	4	6	N	6	8
05/25/2021	5	6	6	N	6	8
09/01/2020	5	6	6	N	6	8
03/18/2020	5	6	6	N	6	8
06/12/2019	5	6	6	N	6	8
06/26/2017	5	6	6	N	6	8
06/23/2015	5	6	6	N	6	8
06/12/2013	5	6	6	N	6	8
06/22/2011	6	6	5	N	5	8
06/18/2009	6	7	5	N	5	8
07/07/2008	6	7	5	N	5	8
06/18/2007	6	7	5	N	5	8
06/06/2005	6	7	5	N	5	8
06/09/2004	6	7	5	N	5	8
05/24/2002	6	7	5	N	5	8
04/01/2000	6	7	5	N	5	8