



Latitude:36.12124, Longitude:-91.14892

Route:63 Section:03 Log:12.47

Arnold Road ID:38x63x3xA, Arnold Log mile:12.374

District 10, Lawrence County

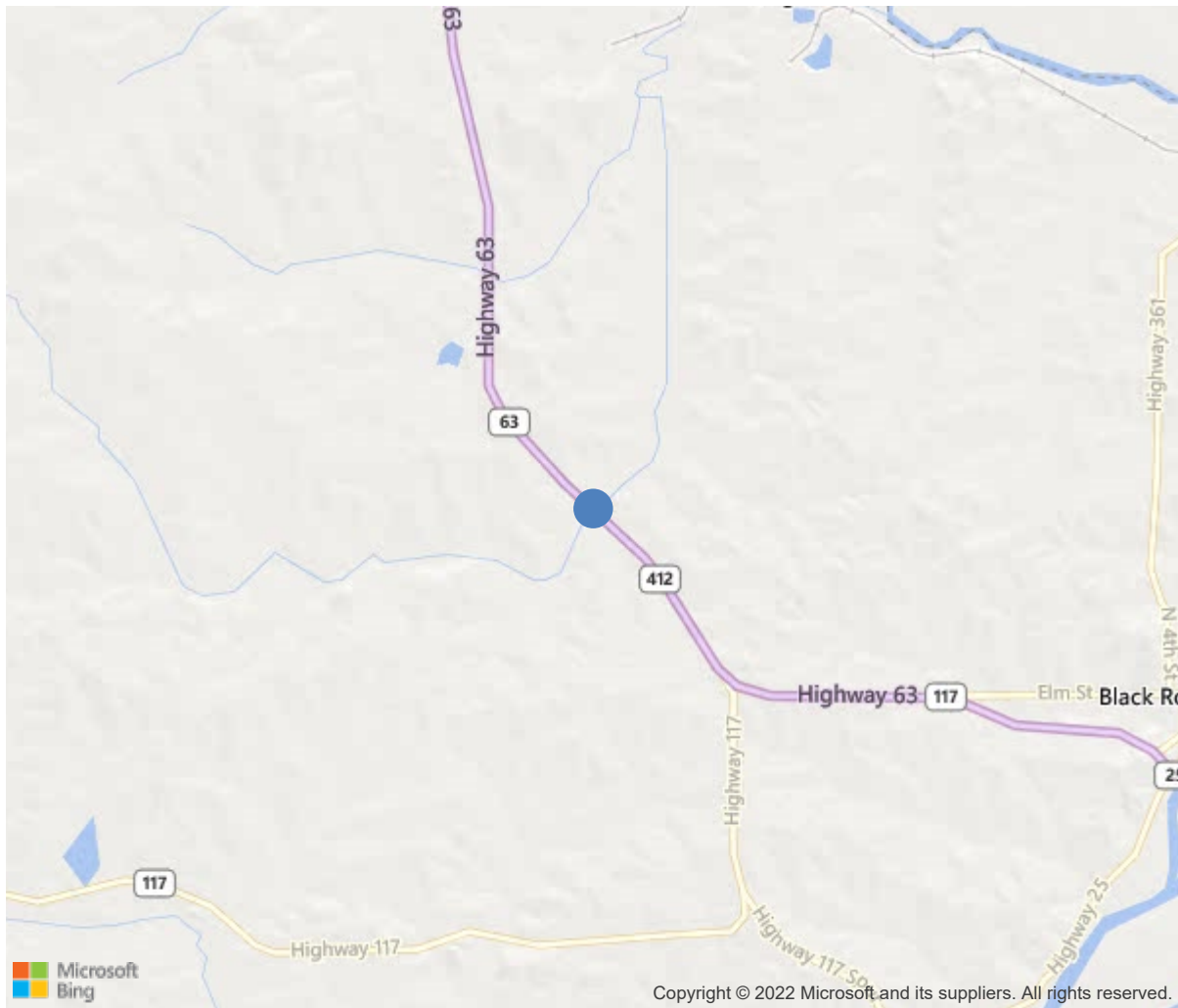
Owner: 1-State Highway Agency



**Bridge #A0655(Routine)**  
**US 63-03-LM 12.47 over STENNIT CREEK**  
**Location: 12.47 MI SE SHARP CO LINE**

**Team Lead:** James Adams **Inspection Date:** August 24, 2020

12.47 MI SE SHARP CO LINE



36.12124, -91.14892

Inspection Direction : W to E



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**US 63-03-LM 12.47 over STENNET CREEK**  
**Location: 12.47 MI SE SHARP CO LINE**

**Team Lead: James Adams Inspection Date: August 24, 2020**

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	A0655
(5) Inventory Route	63
(2) Highway Agency District	10
(3) County Code	75-Lawrence County, Arkansas
(4) Place Code	0
(6) Features Intersected	STENNET CREEK
(7) Facility Carried	US 63-03-LM 12.47
(9) Location	12.47 MI SE SHARP CO LINE
(11) Mile Point	12.47 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000063030
(16) Latitude	36.1212399968129
(17) Longitude	-91.148921661377
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	14
Material	1-Concrete
Type	4-Tee beam
(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	6-Bituminous
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1953
(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	7800
(30) Year of ADT	2018
(109) Truck ADT	26 %
(19) Bypass, Detour Length	13 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	142 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	25.9 ft
(52) Deck Width Out to Out	31.5 ft
(32) Approach Roadway Width (W/Shoulders)	29.9 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	25.9 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	5-None present but re-evaluation
(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 - Oth
(100) Defense Highway	2-The inventory route is on a No
(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 part of the
(20) Toll	3-On free road. The structure is toll-
(21) Maintain	1-State Highway Agency
(22) Owner	1-State Highway Agency
(37) Historical Significance	5-Bridge is not eligible for the NRHP
CONDITION	
(58) Deck	6
(59) Superstructure	6
(60) Substructure	5
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	4-M 18 / H 20
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	47
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	5
Rating	28
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	5
(68) Deck Geometry	2
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0-Inspected feature does not meet cur
(36B) Transitions	0-Inspected feature does not meet cur
(36C) Approach Guardrail	0-Inspected feature does not meet cur
(36D) Approach Guardrail Ends	0-Inspected feature does not meet cur
(113) Scour Critical Bridges	5-Bridge foundations determined to be
PROPOSED IMPROVEMENTS	
(75) Type of Work	Replacement of bridge or other
(76) Length of Structure Improvement	171 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 400
(96) Total Project Cost	\$ 1093
(97) Year of Improvement Cost Estimate	2004
(114) Future ADT	9372
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	08/2020		
(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.			





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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	3834	3553	7	274	0
1080	Delamination/Spall/Patched Area	SF	7	0	7	0	0
1090	Exposed Rebar	SF	7	0	0	7	0
1120	Efflorescence/Rust Staining	SF	66	0	0	66	0
1130	Cracking (RC and Other)	SF	201	0	0	201	0
510	Wearing Surfaces	SF	3692	3452	0	224	16
3220	Crack (Wearing Surface)	SF	224	0	0	224	0
3210	Delam/Spall/Patched Area/Pothole	SF	16	0	0	0	16
110	Reinforced Concrete Open Girder/Beam	LF	710	618	87	5	0
1080	Delamination/Spall/Patched Area	LF	14	0	12	2	0
1090	Exposed Rebar	LF	2	0	0	2	0
1130	Cracking (RC and Other)	LF	76	0	75	1	0
205	Reinforced Concrete Column	EA	10	6	0	4	0
1080	Delamination/Spall/Patched Area	EA	1	0	0	1	0
1090	Exposed Rebar	EA	3	0	0	3	0
210	Reinforced Concrete Pier Wall	LF	43	24	2	17	0
1120	Efflorescence/Rust Staining	LF	11	0	0	11	0
1130	Cracking (RC and Other)	LF	8	0	2	6	0
215	Reinforced Concrete Abutment	LF	122	107	1	14	0
1120	Efflorescence/Rust Staining	LF	11	0	0	11	0
1130	Cracking (RC and Other)	LF	4	0	1	3	0
234	Reinforced Concrete Pier Cap	LF	113	73	0	40	0
1080	Delamination/Spall/Patched Area	LF	12	0	0	12	0
1090	Exposed Rebar	LF	14	0	0	14	0
1120	Efflorescence/Rust Staining	LF	14	0	0	14	0
330	Metal Bridge Railing	LF	284	136	142	6	0
1000	Corrosion	LF	142	0	142	0	0
7000	Damage	LF	6	0	0	6	0
515	Steel Protective Coating	SF	966	386	0	580	0
3440	Effectiveness (Steel Protective Coatings)	SF	580	0	0	580	0



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**Location: 12.47 MI SE SHARP CO LINE**

**Team Lead:** James Adams **Inspection Date:** August 24, 2020

## Maintenance Needs

**Date Reported:** 11/08/2011  
**Priority:** D- Routine  
**Type of Work:** None  
**Status:** Monitor  
**Component:**

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## Deficiency Description

Girders have a few minor flexure cracks.  
Span 1 bent 2 girder 5 has a spall with 1' of rebar exposed.  
Span 2 bent 3 girder 1 has a spall on the corner of the girder.  
Span 4 bent 5 girder 2 has a spall with 1' of rebar exposed.  
Span 5 Girders have a few small spalls/delaminations on sides of girders.

## Remarks

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**Date Reported:** 11/08/2011

**Priority:** D- Routine

**Type of Work:** None

**Status:** Monitor

**Component:**

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**Deficiency Description**

Bents 4 and 5 have large drift buildup across channel.

**Remarks**

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Drift between Bents 4 and 5



Bent 4 drift 2020

**Date Reported:** 11/08/2011  
**Priority:** D- Routine  
**Type of Work:** None  
**Status:** Monitor  
**Component:**

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### Deficiency Description

Bent 2 cap has 1 – 2 ft. diameter spalls on Span 1 side under girder 5 & span 2 side under girders 3 – 5.  
Bent 2 cap has a 24 in. x 6 in. x 2 in. deep spall on left end.  
Bent 2 cap and haunches below girders have several cracks with efflorescence.  
Bent 3 cap has 1 ft. – 2 ft. diameter spalls on span 2 side under girders 1,3 & 5.  
Bent 3 cap has 1 ft. – 2 ft. diameter spalls on span 3 side under girders 3, spalled with exposed rebar under girder 5.  
Bent 4 cap has 1 ft. – 2 ft. diameter spalls on span 3 side under girder 1.  
Bent 4 cap has 1 ft. – 2 ft. diameter spalls on span 4 side under girders 2 & 5, spalls with exposed rebar under girders 3 & 4.  
Bent 5 cap has 1 ft. – 2 ft. diameter spalls on span 4 side under girder 3.

### Remarks

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Span 4 Bent 4



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**Team Lead:** James Adams **Inspection Date:** August 24, 2020

**Date Reported:** 11/19/2013  
**Priority:** G - General/ Preventive maintenance  
**Type of Work:** None  
**Status:** Monitor  
**Component:**

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**Deficiency Description**

Asphalt wearing surface has areas of cracking and rutting in wheel path. Asphalt has transverse cracks over joints.

**Remarks**

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**Team Lead:** James Adams **Inspection Date:** August 24, 2020

**Date Reported:** 11/19/2013  
**Priority:** G - General/ Preventive maintenance  
**Type of Work:** None  
**Status:** Monitor  
**Component:**

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**Deficiency Description**

Soffit has several cracks with some rust stains and efflorescence, and a few small delaminated areas and spalls with rebar exposed.

**Remarks**

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**Team Lead:** James Adams **Inspection Date:** August 24, 2020

**Date Reported:** 11/19/2013  
**Priority:** G - General/ Preventive maintenance  
**Type of Work:** None  
**Status:** Monitor  
**Component:**

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#### **Deficiency Description**

Bents 1 and 6 abutments have a few cracks with some efflorescence and rust stains.  
Bents 2 and 5 pier walls have several vertical cracks with some efflorescence and rust stains.  
Bent 3 column 3 has a minor spall.  
Bent 5 column 1 has a spall with rebar exposed.  
Bent 5 column 2 has a spall with rebar exposed.

#### **Remarks**

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Location: 12.47 MI SE SHARP CO LINE

Team Lead: James Adams Inspection Date: August 24, 2020

Date Reported: 08/24/2020  
Priority: C - Important  
Type of Work: Replace  
Status: Open  
Component: Approach

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#### Deficiency Description

30 ft. of approach rail right side at bent 1 has collision damage.

#### Remarks

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West Rail 2020



Bridge #A0655(Routine)  
US 63-03-LM 12.47 over STENNIT CREEK  
Location: 12.47 MI SE SHARP CO LINE

Team Lead: James Adams Inspection Date: August 24, 2020

Date Reported: 08/24/2020  
Priority: C - Important  
Type of Work: Repair  
Status: Open  
Component: Deck

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#### Deficiency Description

Span 1 left & right lanes each have a 2 ft. x 4 ft. area of spalling & poor patching.

#### Remarks

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Pot holes near bent 1 2020





## Inspection Comments

-

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## Deck Notes

Right approach rail on bent 1 end has 30 ft. of rail damaged.

Left bridge rail has a few posts that have cracks, spalls, and patched areas.

Asphalt wearing surface has areas of cracking and rutting in wheel path with transverse cracks over joints.

Span 1 left & right lanes each have a 2 ft. x 4 ft. area of spalling & poor patching.

Soffit has several cracks with some rust stains and efflorescence, and a few small delaminated areas and spalls with exposed rebar.

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## Superstructure Notes

Girders have a few minor flexure cracks.

Span 1 bent 2 girder 5 has a spall with 1 ft. of exposed rebar.

Span 2 bent 3 girder 1 has a spall on the corner of the girder.

Span 4 girder 4 haunch portion of girder has a minor crack.

Span 5 Girders have a few small spalls & delamination's on sides of girders.

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## Substructure Notes

Bents 1 and 6 abutments have a few cracks with some efflorescence and rust stains.

Bents 2 and 5 pier walls have several vertical cracks with some efflorescence and rust stains.

Caps have several spalls under T beams with some exposed rebar:

Bent 2 cap has 1 – 2 ft. diameter spalls on Span 1 side under girder 5 & span 2 side under girders 3 – 5.

Bent 2 cap has a 24 in. x 6 in. x 2 in. deep spall on left end.

Bent 2 cap and haunches below girders have several cracks with efflorescence.

Bent 3 cap has 1 ft. – 2 ft. diameter spalls on span 2 side under girders 1,3 & 5.

Bent 3 cap has 1 ft. – 2 ft. diameter spalls on span 3 side under girders 3, spalled with exposed rebar under girder 5.

Bent 4 cap has 1 ft. – 2 ft. diameter spalls on span 3 side under girder 1.

Bent 4 cap has 1 ft. – 2 ft. diameter spalls on span 4 side under girders 2 & 5, spalls with exposed rebar under girders 3 & 4.

Bent 5 cap has 1 ft. – 2 ft. diameter spalls on span 4 side under girder 3.

Bent 3 column 3 has a minor spall.

Bent 5 column 1 & 2 both have a spall with exposed rebar.

Bent 4 has a large drift buildup on column 2.

Trees & brush growing under & beside bridge.