



Latitude:35.10513, Longitude:-90.58312

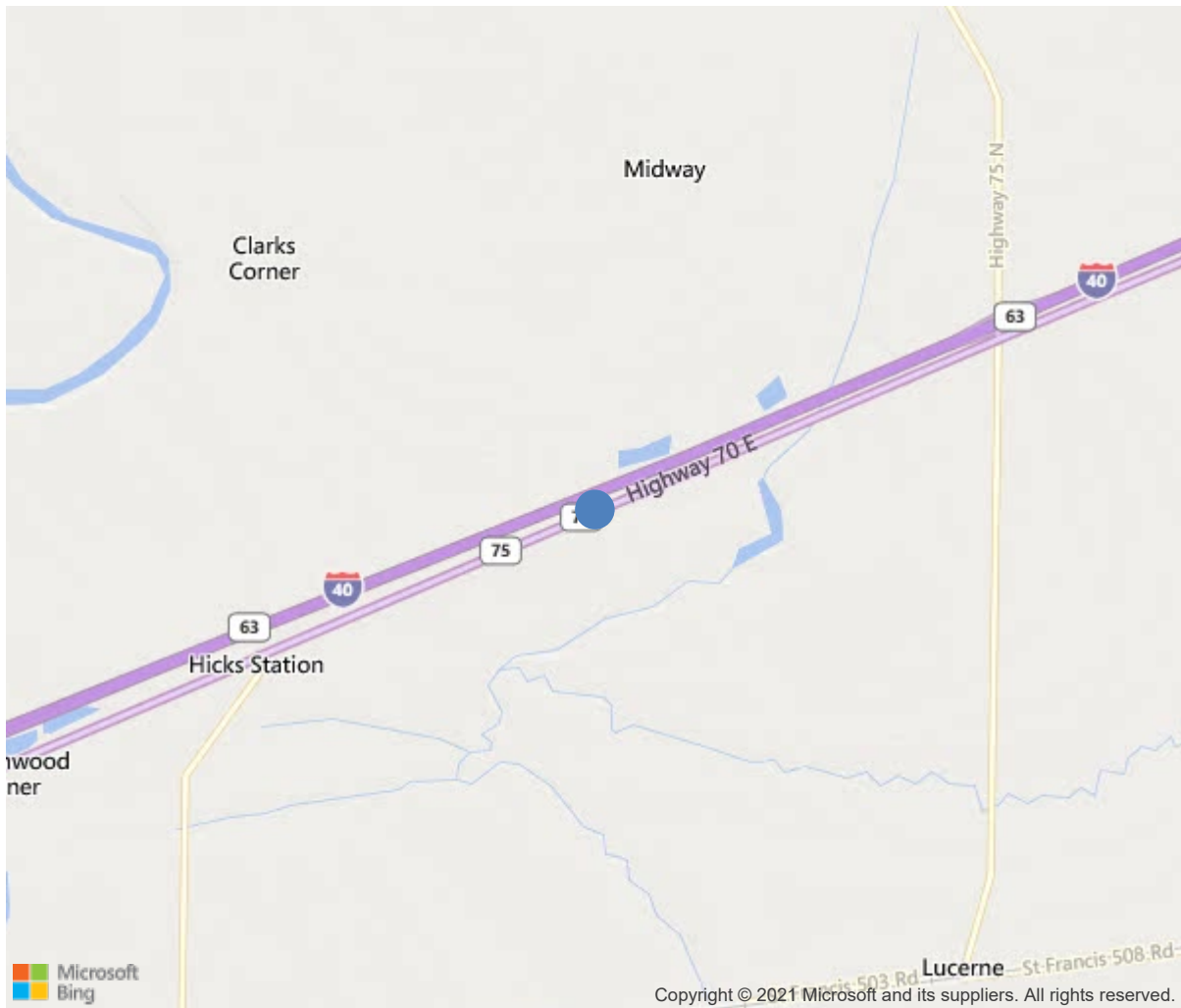
Route:70 Section:19 Log:14.12

Arnold Road ID:68x70x19xA, Arnold Log mile:14.062

District 01, St. Francis County

Owner: 1-State Highway Agency

2.00 Mi Ne Jct Of Sh 75



35.10513, -90.58312



**Bridge #07015(Routine, Underwater type 2)**

**Us-70/Sec15/L14.12 over Beaver Slough**

**Location: 2.00 Mi Ne Jct Of Sh 75**

**Team Lead: Myron Futrell Inspection Date: April 09, 2020**

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	07015
(5) Inventory Route	70
(2) Highway Agency District	01
(3) County Code	123-St. Francis County, Arkansa
(4) Place Code	0
(6) Features Intersected	Beaver Slough
(7) Facility Carried	Us-70/Sec15/L14.12
(9) Location	2.00 Mi Ne Jct Of Sh 75
(11) Mile Point	14.12 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.105129
(17) Longitude	-90.583122
(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 placed
Type of Membrane	0-None
Type of Deck Protection	1-Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	2006
(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	1599
(30) Year of ADT	2018
(109) Truck ADT	16 %
(19) Bypass, Detour Length	0 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	65 ft
(49) Structure Length	177 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	32.2 ft
(52) Deck Width Out to Out	35.2 ft
(32) Approach Roadway Width (W/Shoulders)	33.8 ft
(33) Bridge Median	0-No median
(34) Skew	0 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.01 ft
(47) Inventory Route Total Horiz Clear	32.2 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 water
(111) Pier Protection	1-Navigation protection not requ
(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	7-Rural Major Collector
(100) Defense Highway	0-The inventory route is not a S
(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 part of
(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	4-Historical significance is not dete
CONDITION	
(58) Deck	7
(59) Superstructure	8
(60) Substructure	7
(61) Channel & Channel Protection	8
(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	3
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	7
(68) Deck Geometry	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1-Inspected feature meets currently a
(36B) Transitions	1-Inspected feature meets currently a
(36C) Approach Guardrail	1-Inspected feature meets currently a
(36D) Approach Guardrail Ends	1-Inspected feature meets currently a
(113) Scour Critical Bridges	5-Bridge foundations determined to be
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	980
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			04/2020
(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.			

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	6195	4475	1720	0	0
1120	Efflorescence/Rust Staining	SF	59	0	59	0	0
1130	Cracking (RC and Other)	SF	1661	0	1661	0	0
(12)							
Each span has open transverse cracks spaced 10' and open longitudinal cracks spaced 6'. Soffit overhangs have transverse cracks spaced six feet apart half with light efflorescence.							
107	Steel Open Girder/Beam	LF	885	885	0	0	0
515	Steel Protective Coating	SF	6558	6558	0	0	0
215	Reinforced Concrete Abutment	LF	70	50	20	0	0
1120	Efflorescence/Rust Staining	LF	4	0	4	0	0
1130	Cracking (RC and Other)	LF	16	0	16	0	0
(215)							
Both abutments have vertical cracks spaced 4' cracks in bay #2,3 has light efflorescence.							
225	Steel Pile	EA	10	10	0	0	0
515	Steel Protective Coating	SF	785	785	0	0	0
(225)							
Bottom of corrugated pipes have moderate corrosion at waterline.							
234	Reinforced Concrete Pier Cap	LF	70	70	0	0	0
301	Pourable Joint Seal	LF	139	139	0	0	0
321	Reinforced Concrete Approach Slab	SF	1752	1704	0	48	0
1130	Cracking (RC and Other)	SF	48	0	0	48	0
(321)							
Both abutments have open transverse and diagonal cracks.							
331	Reinforced Concrete Bridge Railing	LF	354	289	65	0	0
1120	Efflorescence/Rust Staining	LF	65	0	65	0	0
(331)							
Span #3 left and right wall have longitudinal and map cracking on top. Each span has several vertical cracks with light efflorescence 25' total.							



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**Location: 2.00 Mi Ne Jct Of Sh 75**

**Team Lead:** Myron Futrell **Inspection Date:** April 09, 2020



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**Location: 2.00 Mi Ne Jct Of Sh 75**

**Team Lead:** Myron Futrell **Inspection Date:** April 09, 2020

## Maintenance Needs

**Date Reported:** 04/21/2016

**Priority:** D- Routine

**Type of Work:** N/A

**Status:** Monitor

**Component:**

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## Deficiency Description

Span #3 left and right parapet walls are cracked at top.

## Remarks

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Span #3 left and right parapet wall cracked at top.



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**Team Lead: Myron Futrell Inspection Date: April 09, 2020**

**Date Reported:** 04/21/2016

**Priority:** D- Routine

**Type of Work:** N/A

**Status:** Monitor

**Component:**

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### Deficiency Description

Abutment #1 left and right side has minor erosion under approach slab at bridge ends.

### Remarks

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Minor erosion under approach slab abutment #1  
left and right side



Abutment 1 approach gutter left side.



Abutment 1 approach gutter right side.

**Date Reported:** 04/21/2016

**Priority:** D- Routine

**Type of Work:** N/A

**Status:** Monitor

**Component:**

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**Deficiency Description**

Both approach slabs have open transverse and diagonal cracks.

**Remarks**

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Abutment #1 approach slab cracks



Abutment #2 approach slab cracks

**Date Reported:** 04/21/2016

**Priority:** D- Routine

**Type of Work:** N/A

**Status:** Monitor

**Component:**

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**Deficiency Description**

Each span has open transverse cracks spaced 10' and open longitudinal cracks spaced 6'.

**Remarks**

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Typical longitudinal deck crack



Typical transverse deck crack

**Date Reported:** 04/21/2016  
**Priority:** C - Important  
**Type of Work:** N/A  
**Status:** Monitor  
**Component:**

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**Deficiency Description**

Abutments #1&2 joints between approach slabs and roadway is open and roadway has settled causing increased impact on approach slabs.

04/09/2020-abutment #2 approach roadway has achm patching added-still rough.

**Remarks**

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Abutment #1 joint at approach slab. And roadway settlement



Abutment #2 roadway settlement



Abutment #2 open joint between roadway and approach slab



Abutment 2 approach roadway..



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### Inspection Comments

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