



Latitude:34.93984, Longitude:-91.01557

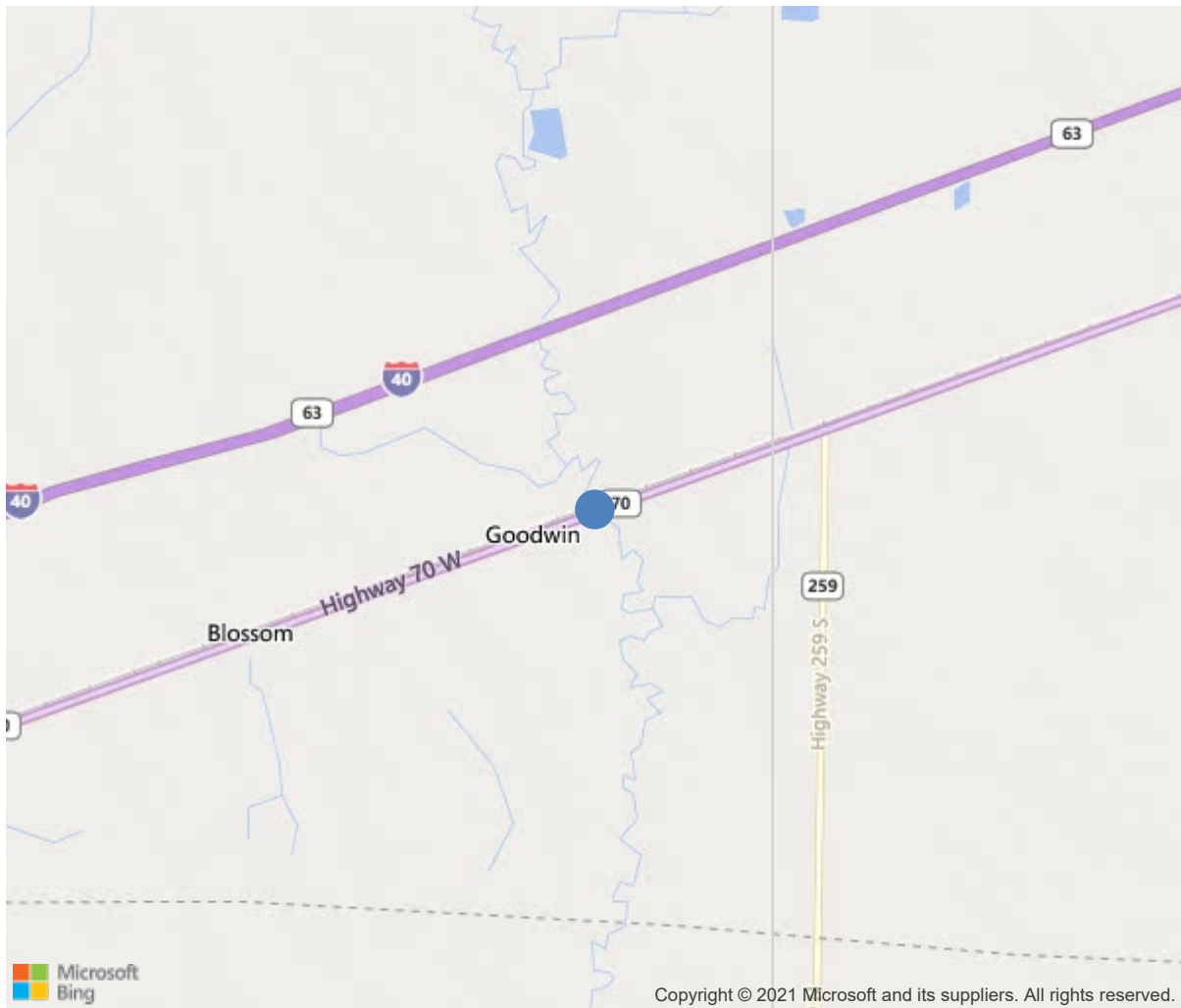
Route:70 Section:18 Log:6.09

Arnold Road ID:68x70x18xA, Arnold Log mile:6.117

District 01, St. Francis County

Owner: 1-State Highway Agency

5.5 Miles East Jct Sh 78



34.93984, -91.01557



Bridge #01535(Routine, Underwater type 2)

Us-70/Sec-18/L6.09 over Big Creek

Location: 5.5 Miles East Jct Sh 78

Team Lead: Myron Futrell Inspection Date: January 13, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	01535
(5) Inventory Route	70
(2) Highway Agency District	01
(3) County Code	123-St. Francis County, Arkansa
(4) Place Code	0
(6) Features Intersected	Big Creek
(7) Facility Carried	Us-70/Sec-18/L6.09
(9) Location	5.5 Miles East Jct Sh 78
(11) Mile Point	6.09 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.939835
(17) Longitude	-91.015572
(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	2
(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	1930
(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	910
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	2 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	35 ft
(49) Structure Length	70 ft
(50) Curb or Sidewalk Width	
Left	1.5 ft
Right	1.5 ft
(51) Bridge Roadway Width Curb to Curb	26.9 ft
(52) Deck Width Out to Out	30.1 ft
(32) Approach Roadway Width (W/Shoulders)	32.2 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	27.6 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	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	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	7
(59) Superstructure	7
(60) Substructure	7
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2-M 13.5 / H 15
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	44
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	2
Rating	27
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	6
(68) Deck Geometry	5
(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	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	1210
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			01/2020
(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
16	Reinforced Concrete Top Flange	SF	2070	2043	0	27	0
1090	Exposed Rebar	SF	2	0	0	2	0
1120	Efflorescence/Rust Staining	SF	25	0	0	25	0
510	Wearing Surfaces	SF	1890	945	945	0	0
3220	Crack (Wearing Surface)	SF	945	0	945	0	0
(16) Soffit has a few hairline cracks in each bay both spans near bents some having light to moderate efflorescences and rust staining. Wearing surface has map cracking, longitudinal cracking, and transverse cracking full length. Soffit span #1 bay #4 has a two foot spall at abutment with exposed rebar with 10% section loss.							
110	Reinforced Concrete Open Girder/Beam	LF	345	325	20	0	0
1090	Exposed Rebar	LF	20	0	20	0	0
(110) All girders have several small pop offs and delaminations due to poor concrete coverage.							
215	Reinforced Concrete Abutment	LF	64	32	28	4	0
1120	Efflorescence/Rust Staining	LF	4	0	0	4	0
6000	Scour	LF	28	0	28	0	0
(215) Abutment #1 is undermined behind wood abutment several feet. Abutment #1 between girders #1,2 and 4,5 is cracked with light efflorescence.							
216	Timber Abutment	LF	52	52	0	0	0
227	Reinforced Concrete Pile	EA	5	0	5	0	0
1190	Abrasion/Wear (PSC/RC)	EA	5	0	5	0	0
(227) Bent #2 piles have light scaling with no loose aggregate.							
234	Reinforced Concrete Pier Cap	LF	26	26	0	0	0
330	Metal Bridge Railing	LF	52	52	0	0	0
515	Steel Protective Coating	SF	156	156	0	0	0
331	Reinforced Concrete Bridge Railing	LF	138	124	10	4	0
1090	Exposed Rebar	LF	10	0	10	0	0
1130	Cracking (RC and Other)	LF	3	0	0	3	0
7000	Damage	LF	1	0	0	1	0
(331)							

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
	Left rail 17' back from abutment #2 top of rail has a 3' crack and delamination. Abutment #1 right monument post has collision damage and is broken. Several small areas of exposed rebar on posts both sides due to poor concrete coverage.						



Typical soffit.



Hole in shoulder at abutment 1 right side.



Typical deck.



Abutment 1 right monument post damage.



Right approach rail damage at abutment 1.



Top view.

Maintenance Needs

Date Reported: 01/31/2012
Priority: C - Important
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Approach rail abutment #1 tight side at bridge has collision damage.

Remarks



Abutment #1 right approach rail damage.



Abutment #1 right side approach rail.

Date Reported: 01/31/2012
Priority: C - Important
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Abutment #1 right monument post has collision damage and is broken.

Remarks



Abutment #1 right side monument post.



Abutment #1 right monument post.



Bridge #01535(Routine, Underwater type 2)

Us-70/Sec-18/L6.09 over Big Creek

Location: 5.5 Miles East Jct Sh 78

Team Lead: Myron Futrell **Inspection Date:** January 13, 2020

Date Reported: 01/31/2012

Priority: D- Routine

Type of Work: N/A

Status: Monitor

Component:

Deficiency Description

Left rail 17' back from abutment #2 top of rail has a 3' crack and delamination.

Remarks



Right guard rail 17' back from abutment #2

Date Reported: 01/25/2018

Priority: D- Routine

Type of Work: N/A

Status: Assigned

Component:

Deficiency Description

Small trees and bushes are growing beside bridge.
01/15/2020-Brush has been cleared at time of inspection.

Remarks



Small trees and bushes are growing beside bridge.



Brush has been cleared beside bridge.

Date Reported: 01/25/2018
Priority: C - Important
Type of Work: N/A
Status: Assigned
Component:

Deficiency Description

Abutment #1 is undermined behind wood abutment several feet.

Remarks



Abutment #1 is undermined behind wood abutment several feet.



Top board of abutment 1 timber abutment has fallen down.

Date Reported: 01/25/2018
Priority: C - Important
Type of Work: N/A
Status: Assigned
Component:

Deficiency Description

Abutment #1 each side approach roadway at bridge end has six inch hole leading to large void behind cap.

Remarks



Abutment #1 each side approach roadway at bridge end has six inch hole leading to large void behind cap.

Date Reported: 01/15/2020

Priority: D- Routine

Type of Work: Replace

Status: Open

Component: Approach

Deficiency Description

Log mile signs are difficult to read.

Remarks



Abutment 2 log mile sign is hard to read.



Abutment 1 log mile sign is hard to read.

Date Reported: 01/15/2020
Priority: C - Important
Type of Work: Repair
Status: Open
Component: Approach

Deficiency Description

Abutment 1, left side, at bridge end, has minor slope erosion.

Remarks



Erosion at abutment 1 left side.



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Us-70/Sec-18/L6.09 over Big Creek

Location: 5.5 Miles East Jct Sh 78

Team Lead: Myron Futrell **Inspection Date:** January 13, 2020

Inspection Comments

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