



Latitude:35.12881, Longitude:-90.51209

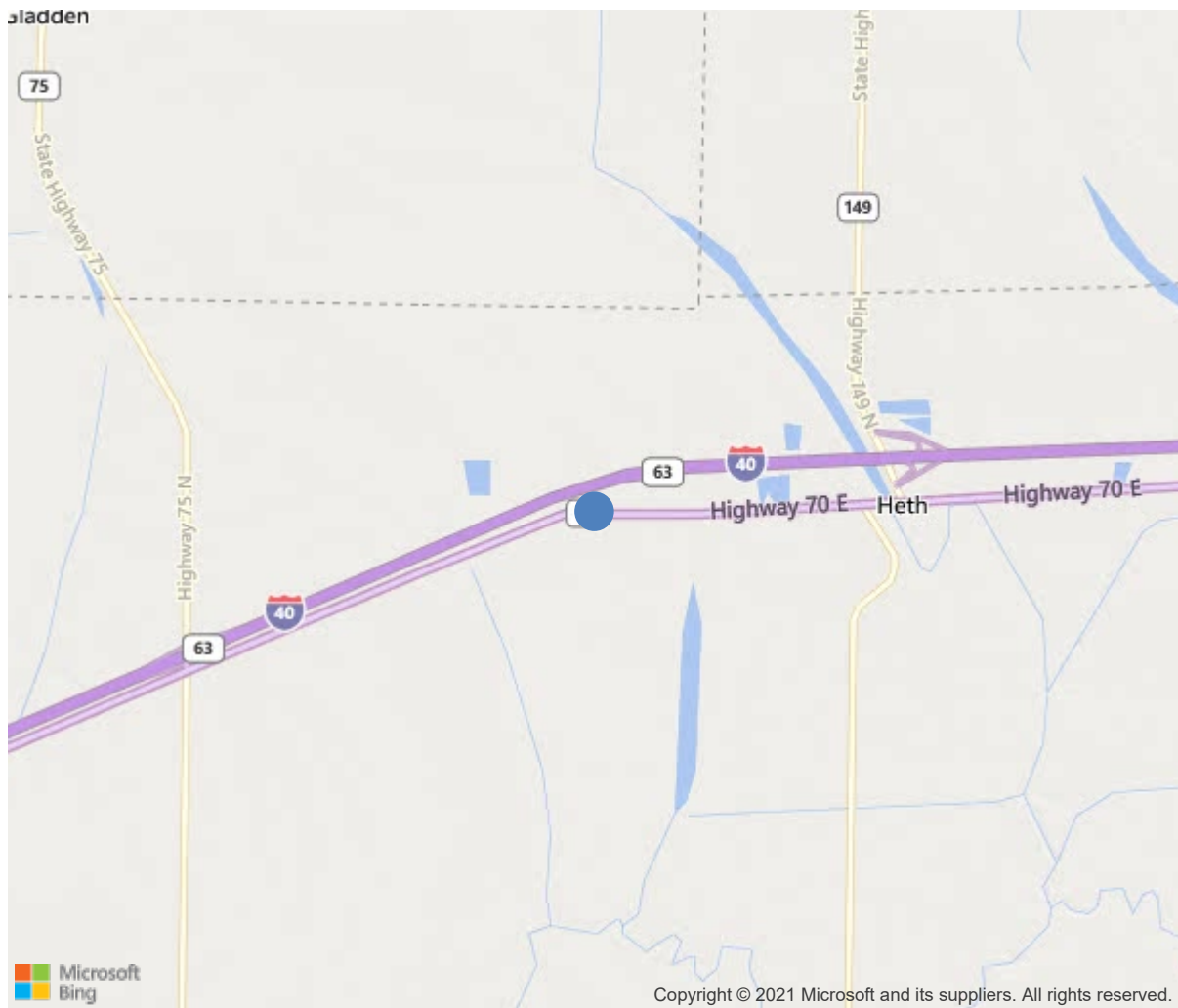
Route:70 Section:19 Log:18.42

Arnold Road ID:68x70x19xA, Arnold Log mile:18.417

District 01, St. Francis County

Owner: 1-State Highway Agency

1.85 Mi Sw Jct Of Sh 149



35.12881, -90.51209



Bridge #01373(Routine, Underwater type 2)

Us70/Sec-19/L18.42 over Cypress Bayou

Location: 1.85 Mi Sw Jct Of Sh 149

Team Lead: Myron Futrell Inspection Date: January 19, 2021

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	01373
(5) Inventory Route	70
(2) Highway Agency District	01
(3) County Code	123-St. Francis County, Arkansa
(4) Place Code	0
(6) Features Intersected	Cypress Bayou
(7) Facility Carried	Us70/Sec-19/L18.42
(9) Location	1.85 Mi Sw Jct Of Sh 149
(11) Mile Point	18.42 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.12881
(17) Longitude	-90.51209
(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	1
(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	1200
(30) Year of ADT	2019
(109) Truck ADT	18 %
(19) Bypass, Detour Length	7 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	35 ft
(49) Structure Length	35 ft
(50) Curb or Sidewalk Width	
Left	1.5 ft
Right	1.5 ft
(51) Bridge Roadway Width Curb to Curb	27 ft
(52) Deck Width Out to Out	30 ft
(32) Approach Roadway Width (W/Shoulders)	26 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 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	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	5
(61) Channel & Channel Protection	5
(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	49
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	1
Rating	30
(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	4
(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	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	4-Bridge foundations determined to be
PROPOSED IMPROVEMENTS	
(75) Type of Work	Replacement of bridge or other
(76) Length of Structure Improvement	58 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 125
(96) Total Project Cost	\$ 255
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	1573
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			01/2021
(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	Yes		/
* 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	1050	1024	0	26	0
1080	Delamination/Spall/Patched Area	SF	15	0	0	15	0
1090	Exposed Rebar	SF	11	0	0	11	0
510	Wearing Surfaces	SF	945	945	0	0	0
(16)							
Bay #1 2'X3' spall between girders #1,2 at 3/4 span and 2 eight inch spalls with exposed rebar with 10% section loss Soffit right overhang has one spall and one delamination near bent #1 with exposed rebar, left overhang has 1' spall with exposed rebar and 1' delamination. Bay #3 has a delamination area and a 1' spall with exposed rebar at bent #2. Bay #4 has a 2' x 6' delamination near abutment #2. Gutters both sides have dirt and debris in them with vegetation growing in them.							
110	Reinforced Concrete Open Girder/Beam	LF	175	170	2	3	0
1080	Delamination/Spall/Patched Area	LF	3	0	0	3	0
1090	Exposed Rebar	LF	2	0	2	0	0
(110)							
Girder #1 has small spall on out side face with exposed rebar with 5% section loss, and two small delamination's. Right side has several 3" pop offs with exposed rebar. Girder #2 at abutment #1 has 1' spall with exposed rebar. Girder #3 left side at abutment #1 has a 6" spall with exposed rebar. Girder #5 left side has 2' delamination at bent #2, and two small delamination's at mid span. Several minor cracks in all diaphragms.							
215	Reinforced Concrete Abutment	LF	64	0	32	32	0
1090	Exposed Rebar	LF	2	0	2	0	0
6000	Scour	LF	62	0	30	32	0
(215)							
Run off has eroded both abutments at terminal end posts causing end post to lean. Abutment #1 left side top of back wall has spalled with 8" of exposed rebar. Abutments #1,2 both have hairline cracks. Abutment #2 cap right side has 6" spall with rebar exposed. Abutment #2 has void behind back wall under approach slab full length up to 3' wide and 2' tall.							
227	Reinforced Concrete Pile	EA	2	2	0	0	0
(227)							
Abutment #2 piles #2 and 3 are exposed.							
331	Reinforced Concrete Bridge Railing	LF	70	69	0	1	0
1090	Exposed Rebar	LF	1	0	0	1	0
(331)							
Abutment #1 left terminal end post is spalled on left side at deck with exposed rebar.							



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Us70/Sec-19/L18.42 over Cypress Bayou

Location: 1.85 Mi Sw Jct Of Sh 149

Team Lead: Myron Futrell **Inspection Date:** January 19, 2021

Maintenance Needs

Date Reported: 02/08/2012

Priority: D- Routine

Type of Work: N/A

Status: Monitor

Component:

Deficiency Description

Terminal end post at abutment #1 left side, and abutment #2 right side roadway run off has undermined these posts allowing them to settle.

Remarks

Placed sandbags around posts.





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Team Lead: Myron Futrell **Inspection Date:** January 19, 2021



Date Reported: 02/08/2012

Priority: D- Routine

Type of Work: N/A

Status: Monitor

Component:

Deficiency Description

Bay #1 2'X3' spall between girders #1,2 at 3/4 span with exposed rebar with 10% section loss.

Soffit right overhang has one spall and one delamination near bent #1 with exposed rebar.

Bay #3 has a delamination area and a 1' spall with exposed rebar at bent #2.

Remarks





Bay #1 soffit spalls.



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Location: 1.85 Mi Sw Jct Of Sh 149

Team Lead: Myron Futrell **Inspection Date:** January 19, 2021

Date Reported: 02/08/2012

Priority: D- Routine

Type of Work: N/A

Status: Monitor

Component:

Deficiency Description

Abutment #1 left side end post back wall has spalled area with exposed rebar where end post sits on back wall.

Remarks



Date Reported: 02/07/2013
Priority: C - Important
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Gutters both sides have dirt and debris in them with vegetation growing in them.

Remarks



Dirt, debris and vegetation in gutters.



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Us70/Sec-19/L18.42 over Cypress Bayou

Location: 1.85 Mi Sw Jct Of Sh 149

Team Lead: Myron Futrell **Inspection Date:** January 19, 2021

Date Reported: 01/30/2015

Priority: D- Routine

Type of Work: N/A

Status: Monitor

Component:

Deficiency Description

Approach rail abutment #2 left approach rail has collision damage.

Remarks



Collision damage to abutment #2 left approach rail.

Date Reported: 01/26/2016
Priority: C - Important
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Abutment #2 sacked sand and cement bags have slid down slope in several locations.

Remarks



Abutment #2 right monument post



Abutment #2



Abutment #2 bags falling down



Abutment #2.

Date Reported: 01/24/2019

Priority: D- Routine

Type of Work: N/A

Status: Monitor

Component:

Deficiency Description

Trees and vegetation are growing beside and under bridge.

Remarks



Trees and vegetation are growing beside and under bridge.



Trees and vegetation growing beside and under bridge.



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Us70/Sec-19/L18.42 over Cypress Bayou

Location: 1.85 Mi Sw Jct Of Sh 149

Team Lead: Myron Futrell **Inspection Date:** January 19, 2021

Date Reported: 01/31/2017
Priority: C - Important
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Abutment #1 left side and Abutment #2 right side have holes in edge of shoulder at terminal end posts due to erosion.

Remarks





Abutment #2 right side



Abutment #2 right side hole in approach shoulder
and void underneath slab.



Abutment #1 left side.

Date Reported: 01/20/2021
Priority: B - Pressing; 6 month completion goal
Type of Work: Repair
Status: Open
Component: Approach

Deficiency Description

Abutment #2 has large void up to 3' wide by 2' tall, full length behind cap, under approach slab.

Remarks



Void behind abutment #2 .



Void behind abutment #2 .

Date Reported: 01/20/2021
Priority: C - Important
Type of Work: Repair
Status: Open
Component: Approach

Deficiency Description

Abutment #1 left lane approach roadway overlay has 1' spall.

Remarks



Abutment #1 left lane approach roadway overlay
has 1' spall.



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Location: 1.85 Mi Sw Jct Of Sh 149

Team Lead: Myron Futrell **Inspection Date:** January 19, 2021

Inspection Comments

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Substructure Notes

1/19/2021-Lowered substructure from 7 5o 5 due to erosion behind abutment #2 cap.