



Latitude:35.10676, Longitude:-91.09722

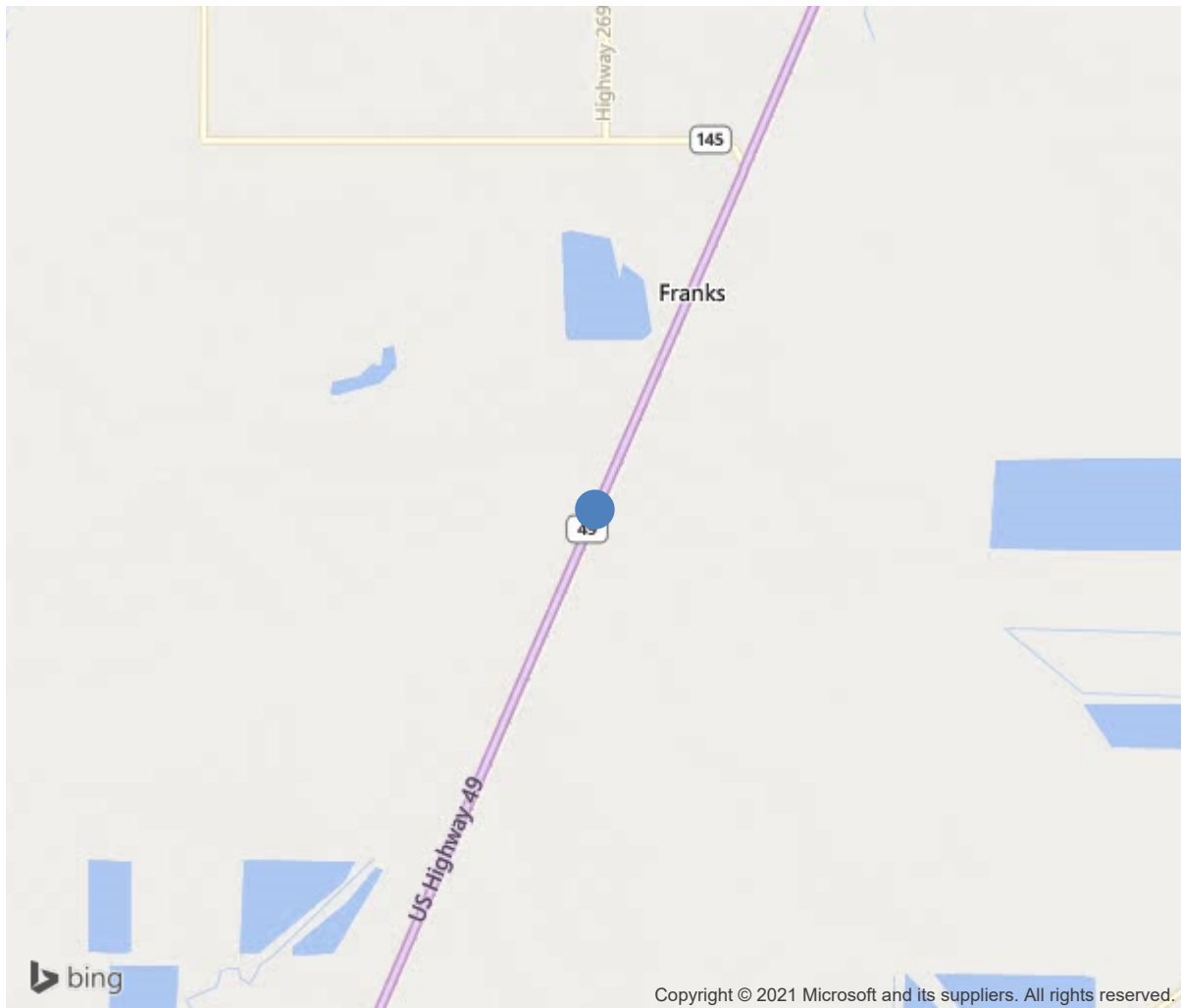
Route:49 Section:07 Log:7.91

Arnold Road ID:74x49x7xA, Arnold Log mile:7.932

District 01, Woodruff County

Owner: 1-State Highway Agency

1.80 MI S OF JCT SH 269



35.10676, -91.09722



Bridge #03046(Routine, Underwater type 2)

US 49/sec-7/L-7.91 over Caney Creek

Location: 1.80 MI S OF JCT SH 269

Team Lead: Myron Futrell Inspection Date: May 07, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03046
(5) Inventory Route	49
(2) Highway Agency District	01
(3) County Code	147-Woodruff County, Arkansas
(4) Place Code	0
(6) Features Intersected	Caney Creek
(7) Facility Carried	US 49/sec-7/L-7.91
(9) Location	1.80 MI S OF JCT SH 269
(11) Mile Point	7.91 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000049070
(16) Latitude	35.10676
(17) Longitude	-91.09722
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	122
Material	1-Concrete
Type	22-Channel beam
(44) Approach Structure Type	00
Material	0-Other
Type	0-Other
(45) No. of Spans in Main Unit	4
(46) No. of Approach Spans	0
(107) Deck Structure Type	2-Concrete Precast Panels
(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	1956
(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	1100
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	4 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	19 ft
(49) Structure Length	76 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	25 ft
(32) Approach Roadway Width (W/Shoulders)	24 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	25.3 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	6-Rural Minor Arterial
(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	5
(60) Substructure	7
(61) Channel & Channel Protection	8
(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	35
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	4
Rating	21
(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	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36) Traffic Safety Features	0001
A) Bridge Railings	0-Inspected feature does not meet cur
B) Transitions	0-Inspected feature does not meet cur
C) Approach Guardrail	0-Inspected feature does not meet cur
D) 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	1482
(115) Year of Future ADT	2028
INSPECTIONS	
(90) Inspection Date	
(91) Frequency	24 Months
(92) Critical Feature Inspection	Done Freq. (Mon) Date
A: Fracture Critical Detail	No 24
B: Underwater Inspection	No 0
C: Other Special Inspection	No 0



Bridge #03046(Routine, Underwater type 2)

US 49/sec-7/L-7.91 over Caney Creek

Location: 1.80 MI S OF JCT SH 269

Team Lead: Myron Futrell, Inspection Date: May 07, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	1900	1896	4	0	0
1120	Efflorescence/Rust Staining	SF	4	0	4	0	0
510	Wearing Surfaces	SF	1824	1614	50	160	0
3220	Crack (Wearing Surface)	SF	210	0	50	160	0
(16)							
Wearing surface has a few transverse and longitudinal cracks 210 square feet total. Bent #2 right curb has 1' spall with exposed rebar with 5% section loss. Bent #3 left curb has 4' spall with exposed rebar with 5% section loss. Bent #4 right curb has 3' spall with exposed rebar with 5% section loss. Span # 2 unit #2 soffit has hairline cracks with light efflorescence for three feet at bent #3.							
110	Reinforced Concrete Open Girder/Beam	LF	532	423	40	69	0
1080	Delamination/Spall/Patched Area	LF	8	0	8	0	0
1090	Exposed Rebar	LF	19	0	0	19	0
1120	Efflorescence/Rust Staining	LF	59	0	9	50	0
1130	Cracking (RC and Other)	LF	23	0	23	0	0
(110)							
Each unit stem has vertical hairline cracks spaced 6" to 8" apart. Connection bolts are corroded with no section loss. Each span has several 6" and smaller pop offs on stems of units. Span #1 girder #1 left leg second half of span is cracked with a six inch piece of rebar exposed at bent #2 with 30% section loss Span #1 girder #1 right leg is cracked and delaminated second half of span with rust staining. Span #1 unit #2 left leg cracked for 4' with rust staining, right leg has 6" spall with exposed secondary rebar. Span #1 girder #6 right leg is cracked and delaminated first half of span with rust staining. Span #1 girder #7 left leg is cracked in center span for three feet with rust staining. Span #2 girder #1 both legs second half of span are cracked on sides and bottom of stems with three feet of delaminations and light efflorescence with rust staining. Span #2 girder #2 left leg is cracked and delaminated for fifteen feet with rust staining and a five foot spall with rebar exposed at bent #3 with 20% section loss. Leg also has light efflorescence on side at bent #3 for three feet. Span #2 girder #6 right leg has 6" spall with no exposed rebar. Span #2 girder #7 left leg at 3/4 span has a two foot delamination with rust staining, and at half span has a three foot long spall with exposed rebar with 20% section loss. Span #2 girder #7 right leg is cracked for 12' with two foot long delamination and a one foot spall at bent #3 with exposed rebar with 20% section loss. Span #3 girder #1 left leg has hairline cracks on sides on stem and bottom for first foot with light efflorescence. Span #3 girder #1 right leg first half of span is cracked on sides of stem and bottom with light to moderate efflorescence the second half is cracked with rust staining and two foot delamination at bent #4. Span #3 girder #2 left leg near center has one foot crack with delamination. Span #3 girder #6 right leg is spalled for eight feet in center rebar exposed with 20% section loss. Span #3 girder #7 right leg has a one foot area near center with six inch spall with exposed rebar with 15% section loss and cracks. Span#3 girder #7 left leg cracked for 2' with rust staining. Span #4 unit #1 left leg at 1/4 span has one foot spall with exposed rebar with 20% section loss.							
215	Reinforced Concrete Abutment	LF	72	72	0	0	0
227	Reinforced Concrete Pile	EA	9	0	3	6	0

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1190 (227)	Abrasion/Wear (PSC/RC)	EA	9	0	3	6	0
Piles have light to moderate scaling. Bent #3 pile #1 has a 36" concrete encasement four feet tall with two foot of undermining.							
234	Reinforced Concrete Pier Cap	LF	78	78	0	0	0
301	Pourable Joint Seal	LF	75	0	0	75	0
2350 (301)	Debris Impaction	LF	75	0	0	75	0
Joints are overlaid and have limited movement.							
330	Metal Bridge Railing	LF	152	0	144	6	2
1000	Corrosion	LF	136	0	136	0	0
1020	Connection	LF	10	0	8	0	2
1900	Distortion	LF	6	0	0	6	0
515	Steel Protective Coating	SF	456	0	0	228	228
3440 (330)	Effectiveness (Steel Protective Coatings)	SF	456	0	0	228	228
Span #1 left side beginning of bridge has six feet of collision damage with rail bent outward and end post broken and spalled with exposed rebar. All rail posts on left side have small spalls on tops. Next to last rail post on left side at abutment #2 is missing. Rails have surface rust full length back side has no paint with 50% bare steel rest of paint has limited effectiveness.							



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Location: 1.80 MI S OF JCT SH 269

Team Lead: Myron Futrell **Inspection Date:** May 07, 2020

Maintenance Needs

Date Reported: 05/30/2018

Priority: D- Routine

Type of Work: N/A

Status: Monitor

Component:

Deficiency Description

Abutment #1 right and left shoulder and abutment #2 left shoulder at bridge is eroded up to one foot deep behind head wall.

Remarks



Abutment #1 right shoulder at bridge is eroded one foot deep behind head wall.



Minor erosion at abutment #1 left side.



Erosion at abutment #2 left side.



Erosion at abutment #1 right side.



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Location: 1.80 MI S OF JCT SH 269

Team Lead: Myron Futrell Inspection Date: May 07, 2020

Date Reported: 05/30/2018

Priority: D- Routine

Type of Work: N/A

Status: Monitor

Component:

Deficiency Description

Small trees and vegetation are growing beside and under bridge.

Remarks



Small trees and vegetation are growing beside and under bridge.



Trees and vegetation growing beside and under bridge.

Date Reported: 06/12/2014

Priority: D- Routine

Type of Work: N/A

Status: Monitor

Component:

Deficiency Description

Bent #2 right curb has 1' spall with exposed rebar with 5% section loss.

Bent #3 left curb has 4' spall with exposed rebar with 5% section loss.

Bent #4 right curb has 3' spall with exposed rebar with 5% section loss.

Remarks



Bent #3 left curb



Right curb over bent #4



Right curb over bent #2



Left curb spalled at bent #3.

Date Reported: 06/12/2012
Priority: C - Important
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Span #1 girder #1 left leg second half of span is cracked with a six inch piece of rebar exposed at bent #2 with 30% section loss
Span #1 girder #1 right leg is cracked and delaminated second half of span with rust staining.
Span #1 unit #2 left leg cracked for 4' with rust staining, right leg has 6" spall with exposed secondary rebar.
Span #1 girder #6 right leg is cracked and delaminated first half of span with rust staining.
Span #1 girder #7 left leg is cracked in center span for three feet with rust staining.
Span #2 girder #1 both legs second half of span are cracked on sides and bottom of stems with three feet of delaminations and light efflorescence with rust staining.
Span #2 girder #2 left leg is cracked and delaminated for fifteen feet with rust staining and a five foot spall with rebar exposed at bent #3 with 20% section loss. Leg also has light efflorescence on side at bent #3 for three feet.
Span #2 girder #6 right leg has 6" spall with no exposed rebar.
Span #2 girder #7 left leg at 3/4 span has a two foot delamination with rust staining, and at half span has a three foot long spall with exposed rebar with 20% section loss.
Span #2 girder #7 right leg is cracked for 12' with two foot long delamination and a one foot spall at bent #3 with exposed rebar with 20% section loss.
Span #3 girder #1 left leg has hairline cracks on sides on stem and bottom for first foot with light efflorescence.
Span #3 girder #1 right leg first half of span is cracked on sides of stem and bottom with light to moderate efflorescence the second half is cracked with rust staining and two foot delamination at bent #4.
Span #3 girder #2 left leg near center has one foot crack with delamination.
Span #3 girder #6 right leg is spalled for eight feet in center rebar exposed with 20% section loss.
Span #3 girder #7 right leg has a one foot area near center with six inch spall with exposed rebar with 15% section loss and cracks.
Span #3 girder #7 left leg cracked for 2' with rust staining.
Span #4 unit #1 left leg at 1/4 span has one foot spall with exposed rebar with 20% section loss.

Remarks





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Typical vertical flexure cracks



Span #2 girder #7 right leg at bent #3



Span #2 unit #1 left and right leg cracked with efflorescence last half of span.



Span #1 girder #6 right leg first half of span



Span #3 unit #6 right leg



Span #3 unit #1 right leg



Span #2 girder #7 left leg mid span 4' spall with exposed rebar large section loss. Remaining section of last half of span left leg cracked with rust stains.



Span #2 unit #2 left leg near bent #3



Span #4 unit #1 left leg 2' delamination.



Span #3 unit #2 left leg



Span #1 girder #1 right leg



Span #2 unit #2 left leg at bent #3.



Span #2 unit #7 right leg.



Span #2 unit #7 left leg.



Span #3 unit #6 right leg.



Span #4 unit #1 left leg.



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Location: 1.80 MI S OF JCT SH 269

Team Lead: Myron Futrell **Inspection Date:** May 07, 2020

Date Reported: 06/12/2012
Priority: C - Important
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Span #1 left side beginning of bridge has six feet of collision damage with rail bent outward and end post broken and spalled with exposed rebar.

All rail posts on left side have small spalls on tops.

Next to last rail post on left side at abutment #2 is missing.

Abutment #1 left side, first post is broken.

Remarks



Bridge rail left side tops of all posts



Abutment #1 left side 1st post.



Span #3 left side next to last post gone.



Span #1 left side



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Span #1 left rail damage and 1st post broken.



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Inspection Comments

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