



Latitude:36.28130, Longitude:-90.93014

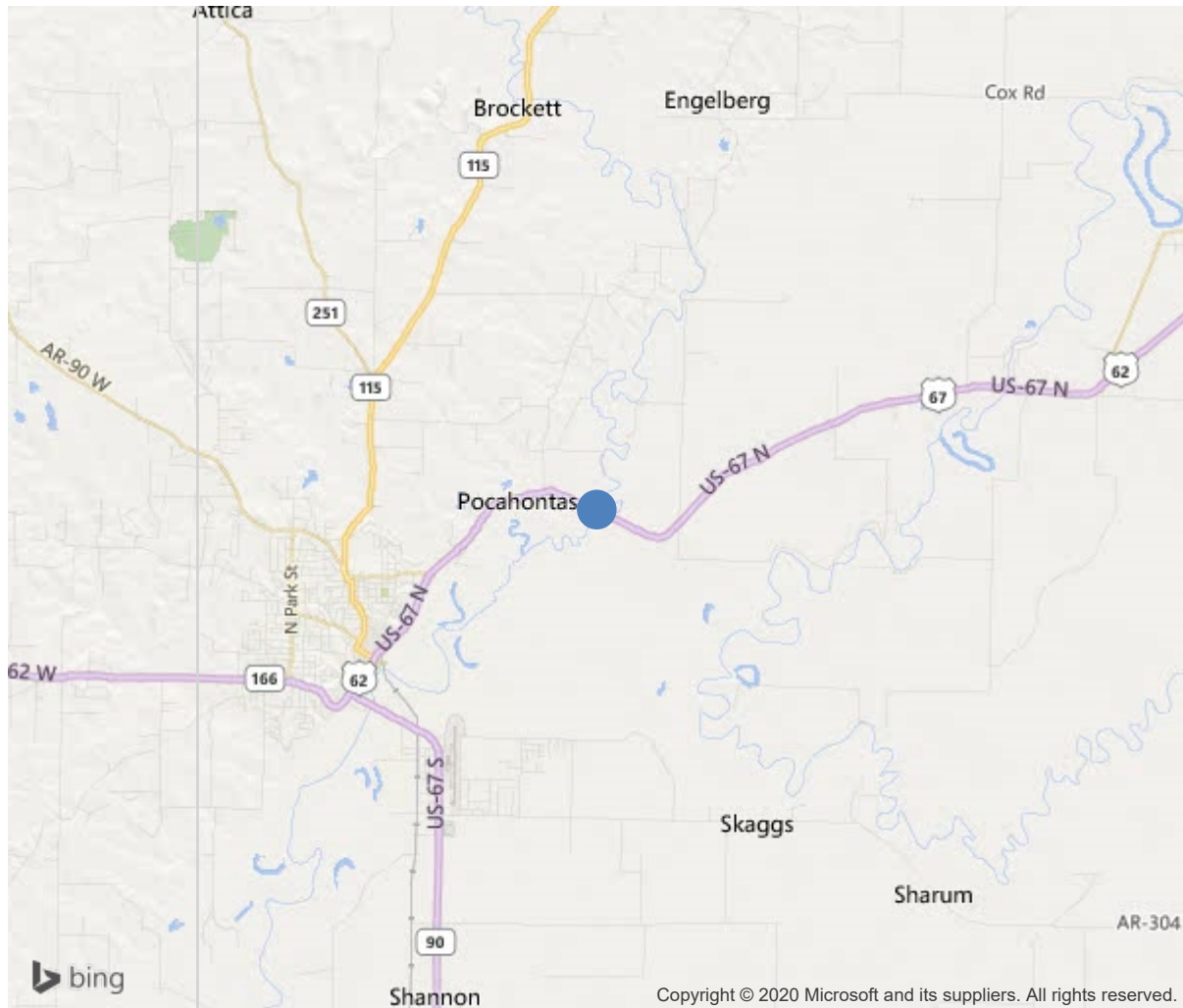
Route:67 Section:19 Log:3.4

Arnold Road ID:61x67x19xA, Arnold Log mile:3.399

District 10, Randolph County

Owner: 1-State Highway Agency

3.34 MI NE JCT US 62



36.28130, -90.93014



Bridge #00508(Routine)

US 67-19- LM 3.40 over FOURCHE

Location: 3.34 MI NE JCT US 62

Team Lead: Richard Jones Inspection Date: April 15, 2019

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	00508
(5) Inventory Route	67
(2) Highway Agency District	10
(3) County Code	121-Randolph County, Arkansas
(4) Place Code	0
(6) Features Intersected	FOURCHE
(7) Facility Carried	US 67-19- LM 3.40
(9) Location	3.34 MI NE JCT US 62
(11) Mile Point	3.4 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000087190
(16) Latitude	36.28130
(17) Longitude	-90.93014
(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	14
Material	1-Concrete
Type	4-Tee beam
(45) No. of Spans in Main Unit	1
(46) No. of Approach Spans	9
(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	1928
(106) Year Reconstructed	1955
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	6600
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	10 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	82 ft
(49) Structure Length	354 ft
(50) Curb or Sidewalk Width	
Left	1.2 ft
Right	1.2 ft
(51) Bridge Roadway Width Curb to Curb	27.9 ft
(52) Deck Width Out to Out	31.7 ft
(32) Approach Roadway Width (W/Shoulders)	44 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	27.9 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	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			6
(59) Superstructure			6
(60) Substructure			6
(61) Channel & Channel Protection			7
(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			43
(65) Inventory Rating Method		1-Load Factor(LF)	
(66) Inventory Rating			
Type			1
Rating			26
(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			9
(72) Approach Roadway Alignment			8
(36) Traffic Safety Features			0000
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	0-Inspected feature does not meet cur		
(113) Scour Critical Bridges	7-Countermeasures have been installed		
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			5436
(115) Year of Future ADT			2028
INSPECTIONS			
(90) Inspection Date			201904
(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	

SUFFICIENCY RATING	66.5
STATUS (SD/FO/None)	Not Deficient



Bridge #00508(Routine)

US 67-19- LM 3.40 over FOURCHE

Location: 3.34 MI NE JCT US 62

Team Lead: Richard Jones, Inspection Date: April 15, 2019

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	2583	2344	51	188	0
1120	Efflorescence/Rust Staining	SF	239	0	51	188	0
510	Wearing Surfaces	SF	2296	901	1395	0	0
3220	Crack (Wearing Surface)	SF	1093	0	1093	0	0
3210	Delam/Spall/Patched Area/Pothole	SF	56	0	56	0	0
3230	Effectiveness (Wearing Surface)	SF	246	0	246	0	0
16	Reinforced Concrete Top Flange	SF	8568	7750	816	2	0
1090	Exposed Rebar	SF	2	0	0	2	0
1120	Efflorescence/Rust Staining	SF	272	0	272	0	0
1130	Cracking (RC and Other)	SF	544	0	544	0	0
510	Wearing Surfaces	SF	7616	4288	1800	1528	0
3220	Crack (Wearing Surface)	SF	1458	0	0	1458	0
3210	Delam/Spall/Patched Area/Pothole	SF	238	0	168	70	0
3230	Effectiveness (Wearing Surface)	SF	1632	0	1632	0	0
107	Steel Open Girder/Beam	LF	410	0	328	82	0
1000	Corrosion	LF	410	0	328	82	0
515	Steel Protective Coating	SF	4510	0	902	2481	1127
3440	Effectiveness (Steel Protective Coatings)	SF	4510	0	902	2481	1127
110	Reinforced Concrete Open Girder/Beam	LF	1632	1508	121	3	0
1080	Delamination/Spall/Patched Area	LF	18	0	16	2	0
1120	Efflorescence/Rust Staining	LF	1	0	0	1	0
1130	Cracking (RC and Other)	LF	105	0	105	0	0
205	Reinforced Concrete Column	EA	4	3	0	1	0
1090	Exposed Rebar	EA	1	0	0	1	0
210	Reinforced Concrete Pier Wall	LF	38	35	2	1	0
1120	Efflorescence/Rust Staining	LF	3	0	2	1	0
215	Reinforced Concrete Abutment	LF	55	55	0	0	0
227	Reinforced Concrete Pile	EA	42	34	7	1	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
1090	Exposed Rebar	EA	1	0	0	1	0
1130	Cracking (RC and Other)	EA	4	0	4	0	0
1190	Abrasion/Wear (PSC/RC)	EA	2	0	2	0	0



Bridge #00508(Routine)

US 67-19- LM 3.40 over FOURCHE

Location: 3.34 MI NE JCT US 62

Team Lead: Richard Jones, Inspection Date: April 15, 2019

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
234	Reinforced Concrete Pier Cap	LF	245	171	28	46	0
1080	Delamination/Spall/Patched Area	LF	5	0	5	0	0
1090	Exposed Rebar	LF	2	0	0	2	0
1120	Efflorescence/Rust Staining	LF	1	0	0	1	0
311	Movable Bearing	EA	5	0	0	5	0
1000	Corrosion	EA	5	0	0	5	0
313	Fixed Bearing	EA	5	0	0	5	0
1000	Corrosion	EA	5	0	0	5	0
330	Metal Bridge Railing	LF	708	30	678	0	0
1000	Corrosion	LF	164	0	164	0	0
515	Steel Protective Coating	SF	2266	96	0	2170	0
3440	Effectiveness (Steel Protective Coatings)	SF	525	0	0	525	0





span 5 bent 5 girders 1 - 6



span 1 bent 2 girder 2





span 2 bent 2 girders 2 and 3



span 2 bent 2 girder 5





typical fixed end



span 3 bent 4 girder 2





span 4 bent 4 girder 2



typical soffit





span 1 bent 2 girder 3



span 1 bent 2 girder 5



**Bridge #00508**(Routine)

**US 67-19- LM 3.40 over FOURCHE**

**Location: 3.34 MI NE JCT US 62**

**Team Lead:** Richard Jones **Inspection Date:** April 15, 2019

## **Maintenance Needs**





Bridge #00508(Routine)

US 67-19- LM 3.40 over FOURCHE

Location: 3.34 MI NE JCT US 62

Team Lead: Richard Jones Inspection Date: April 15, 2019

## Inspection Comments

---

### Deck Notes

Asphalt wearing surface has numerous transverse and longitudinal cracks with some rutting in wheel path. Asphalt is spalling out over joints.

Metal rails have surface rust throughout. A few damaged sections have been replaced in the past.

Approach spans soffit has a few transverse cracks with efflorescence. Approach spans have longitudinal cracks with some efflorescence along construction joints.

Main spans soffit has several cracks with efflorescence.

---

### Superstructure Notes

Main span steel girders have freckled rust throughout with a few areas of section loss. Exterior girders have section loss along top flange from leakage through deck.

Steel bearings have corrosion, pack rust, and section loss. A few are missing anchor bolts. Fixed ends of concrete T beams have diagonal cracks in diaphragms adjacent to girders. A few beam ends are cracked or spalled. Several beam ends have been patched in the past, but several patches are cracked and delaminated.

Span 4 bent 4 girder 2 patched area has spalled out at end of girder.

---

### Substructure Notes



**Bridge #00508**(Routine)  
**US 67-19- LM 3.40 over FOURCHE**  
**Location: 3.34 MI NE JCT US 62**

**Team Lead:** Richard Jones **Inspection Date:** April 15, 2019

Concrete caps have numerous cracks with efflorescence, delaminated areas, and spalls with some rebar exposed. Caps have a few spalls under T beams.

Bent 3 cap has spalls with rebar exposed on Lt end near bearing.

Bent 4 cap on ahead side has a spall under girder 6 with up to 3" loss of bearing area.

Bent 5 cap has a large delaminated area on ahead side under girder 1. Cap is spalled under girder 2 with up to 3" loss of bearing area. Bent 6 and 7 caps have depressions at old truss bearing locations.

Bent 9 cap has a spall with rebar exposed on ahead side under girder 6 with some loss of bearing area. Bent 3 pile 3 is cracked and delaminated at top.

Bent 5 pile 4 has vertical cracks at top.

Bent 8 pile 5 has a spall with rebar exposed.

Piles at bents 8 and 9 have minor abrasion.

Bent 10 pile 5 has vertical cracks at top. Channel sounded in 2017 (Channel repairs were made under contract Job R00130 in 1996)