



Latitude:36.27629, Longitude:-90.95434

Route:67 Section:19 Log:1.79

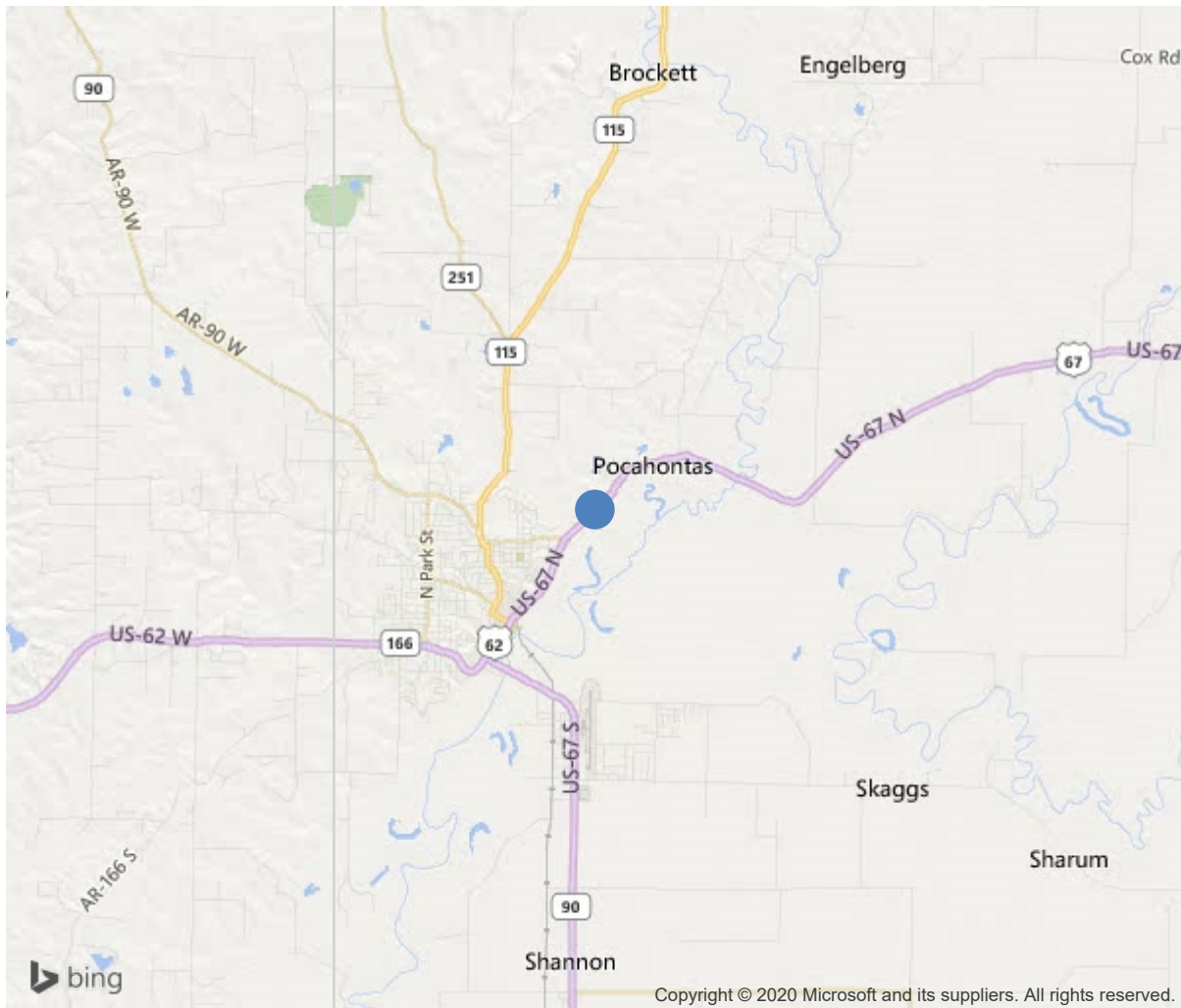
Arnold Road ID:61x67x19xA, Arnold Log mile:1.784

District 10, Randolph County

Owner: 1-State Highway Agency

Place Code: 54120 - POCAHONTAS

1.79 Mi N Jct US67/62



36.27629, -90.95434



Bridge #00507(Routine)

US 67-19- LM 1.79 over HAMILTON CREEK

Location: 1.79 Mi N Jct US67/62

Team Lead: Tim Myrick Inspection Date: May 17, 2017

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	00507
(5) Inventory Route	67
(2) Highway Agency District	10
(3) County Code	121-Randolph County, Arkansas
(4) Place Code	54120
(6) Features Intersected	HAMILTON CREEK
(7) Facility Carried	US 67-19- LM 1.79
(9) Location	1.79 Mi N Jct US67/62
(11) Mile Point	1.79 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000067190
(16) Latitude	36.27629
(17) Longitude	-90.95434
(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	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	5819
(30) Year of ADT	2018
(109) Truck ADT	34 %
(19) Bypass, Detour Length	12 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	31 ft
(49) Structure Length	62 ft
(50) Curb or Sidewalk Width	
Left	1.2 ft
Right	1.2 ft
(51) Bridge Roadway Width Curb to Curb	28 ft
(52) Deck Width Out to Out	31.5 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	14-Urban Other Principal 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			7
(60) Substructure			7
(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			55
(65) Inventory Rating Method	1-Load Factor(LF)		
(66) Inventory Rating			
Type			2
Rating			33
(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			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	5-Bridge foundations determined to be		
PROPOSED IMPROVEMENTS			
(75) Type of Work	Replacement of bridge or other		
(76) Length of Structure Improvement	87 ft		
(94) Bridge Improvement Cost	\$ 0		
(95) Roadway Improvement Cost	\$ 306		
(96) Total Project Cost	\$ 622		
(97) Year of Improvement Cost Estimate	2001		
(114) Future ADT	6300		
(115) Year of Future ADT	2038		
INSPECTIONS			
(90) Inspection Date			201905
(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	73.2
STATUS (SD/FO/None)	Not Deficient

Location: 1.79 Mi N Jct US67/62

Team Lead: Tim Myrick, **Inspection Date:** May 17, 2017

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	1953	1947	2	4	0
1080	Delamination/Spall/Patched Area	SF	2	0	2	0	0
1090	Exposed Rebar	SF	4	0	0	4	0
510	Wearing Surfaces	SF	1736	1556	180	0	0
3220	Crack (Wearing Surface)	SF	180	0	180	0	0
(16)							
Concrete deck with asphalt overlay, asphalt overlay has some moderate width cracks mainly in wheel path and over Bt. 2 joint.							
Span 2 soffit has two small spalls with exposed rebar (1 ft. x 2 ft. Typ.) one each at bay 2 and bay 3 over Bt. 2.							
Span 2 soffit, Bays 2,3 & 4 over Bt. 3 each have delamination and impending spalls at old concrete patch.							
110	Reinforced Concrete Open Girder/Beam	LF	373	370	3	0	0
1090	Exposed Rebar	LF	3	0	3	0	0
(110)							
Span 1, Girders 2,3 & 5 each have 1 ft. area on end over Bt. 2 spall with exposed rebar.							
205	Reinforced Concrete Column	EA	3	2	0	1	0
1090	Exposed Rebar	EA	1	0	0	1	0
(205)							
Bent 2, Column 1 has 1 ft. area spall with exposed rebar, some section loss to rebar.							
215	Reinforced Concrete Abutment	LF	76	76	0	0	0
234	Reinforced Concrete Pier Cap	LF	27	24	3	0	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
(234)							
Bent 2 Cap on span 2 side has 1 ft. area spall with exposed rebar.							
Bent 2 Cap on span 2 side has Two small areas of delamination and impending spalls.							
330	Metal Bridge Railing	LF	124	0	6	118	0
1000	Corrosion	LF	118	0	0	118	0
1020	Connection	LF	6	0	6	0	0
(330)							
Metal Bridge rail is rust covered with initial section loss.							
6 ft. of Span 1 Lt. Bridge rail has collision damage with one broken post and concrete end post broken off.							





Bridge #00507 (Routine)

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Team Lead: Tim Myrick **Inspection Date:** May 17, 2017

Maintenance Needs



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Location: 1.79 Mi N Jct US67/62

Team Lead: Tim Myrick **Inspection Date:** May 17, 2017

Inspection Comments

Deck Notes

Concrete deck with asphalt overlay, asphalt overlay has some moderate width cracks mainly in wheel path and over Bt. 2 joint. Metal Bridge rail is rust covered with initial section loss. 6 ft. of Span 1 Lt. bridge rail has collision damage with one broken post and concrete end post broken. Span 2 soffit has two small spalls with exposed rebar (1 ft. x 2 ft. Typ.) one each at bay 2 and bay 3 over Bt. 2. Span 2 soffit, Bays 2, 3 & 4 over Bt. 3 each have delamination and impending spalls at old concrete patch.

Superstructure Notes

Span 1, Girders 2, 3 & 5 each have 1 ft. area on end over Bt. 2 spall with exposed rebar.

Substructure Notes

Bent 2, Column 1 has 1 ft. area spall with exposed rebar, some section loss to rebar. Bent 2 Cap on span 2 side has 1 ft. area spall with exposed rebar. Bent 2 Cap on span 2 side has Two small areas of delamination and impending spalls.