



Latitude:33.75529, Longitude:-93.70760

Route:195 Section:01 Log:11.78

Arnold Road ID:29x195x1xA, Arnold Log mile:11.818

District 03, Hempstead County

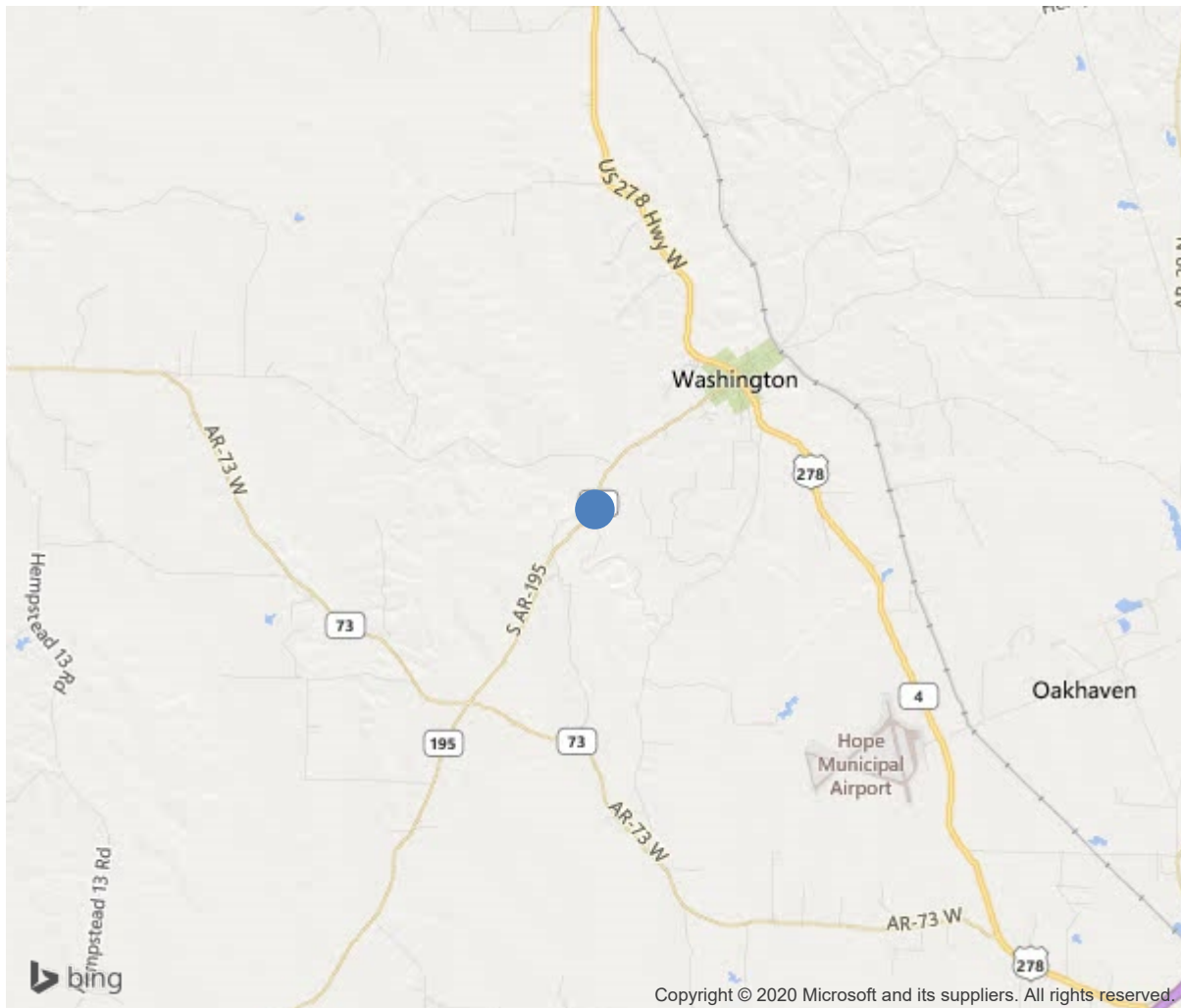
Owner: 1-State Highway Agency

**Bridge #M2294**(Routine, Underwater type 2)  
**SH 195 -01-11.78 over BLACK BOIS DE ARC CREEK**

**Location: 2.1 MI SW SH 4**

**Team Lead:** Charlie Rogers **Inspection Date:** May 06, 2020

2.1 MI SW SH 4



33.75529, -93.70760



**Bridge #M2294(Routine, Underwater type 2)**  
**SH 195 -01-11.78 over BLACK BOIS DE ARC CREEK**

**Location: 2.1 MI SW SH 4**

**Team Lead: Charlie Rogers Inspection Date: May 06, 2020**

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	M2294
(5) Inventory Route	195
(2) Highway Agency District	03
(3) County Code	57-Hempstead County, Arkansas
(4) Place Code	0
(6) Features Intersected	BLACK BOIS DE ARC CREEK
(7) Facility Carried	SH 195 -01-11.78
(9) Location	2.1 MI SW SH 4
(11) Mile Point	11.78 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.75529
(17) Longitude	-93.70760
(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	3
(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	1967
(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	290
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	13 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	19 ft
(49) Structure Length	57 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	25.1 ft
(32) Approach Roadway Width (W/Shoulders)	25.9 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	25.6 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		0-The inventory route is not part of	
(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			6
(61) Channel & Channel Protection			6
(62) Culverts			N
LOAD RATING AND POSTING			
(31) Design Load		0-Other or Unknown	
(63) Operating Rating Method			1
(64) Operating Rating			
Type		1-Load Factor(LF)	
Rating			60
(65) Inventory Rating Method		1-Load Factor(LF)	
(66) Inventory Rating			
Type			3
Rating			36
(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			6
(72) Approach Roadway Alignment			6
(36) Traffic Safety Features			1000
A) Bridge Railings		1-Inspected feature meets currently a	
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			
(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			0
(114) Future ADT			562
(115) Year of Future ADT			2028
INSPECTIONS			
(90) Inspection Date			202005
(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	87.6
STATUS (SD/FO/None)	Not Deficient



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	1430	1430	0	0	0
510	Wearing Surfaces	SF	1374	1374	0	0	0
(16)							
2.0 IN ASPHALT OVERLAY							
110	Reinforced Concrete Open Girder/Beam	LF	399	364	25	10	0
1080	Delamination/Spall/Patched Area	LF	20	0	20	0	0
1090	Exposed Rebar	LF	9	0	0	9	0
1130	Cracking (RC and Other)	LF	6	0	5	1	0
(110-1090)							
5/6/2020...Exposed rebar at ends of units at bents in various locations...							
216	Timber Abutment	LF	56	56	0	0	0
228	Timber Pile	EA	10	10	0	0	0
(228)							
PILE 2 BENT 1 , --5 INCH OUTER SHELL ROTTEN AT GROUND LINE WITH ONLY 6 INCH CORE REMAINING, ---18 INCH UP FROM GROUND LINE.--PILE WAS REPAIRED 7/28/2016...							
234	Reinforced Concrete Pier Cap	LF	108	105	3	0	0
1080	Delamination/Spall/Patched Area	LF	3	0	3	0	0
330	Metal Bridge Railing	LF	114	0	114	0	0
1000	Corrosion	LF	114	0	114	0	0



Underside of deck typical all spans



Deck



Alignment



AL



**BOTTOM OF DECK TYPICAL ALL SPANS**





GUARD RAIL NEEDS TO BE PAINTED ENTIRE BRIDGE.



DECK PHOTO



Bent 2



Bent 2



Bent 2



Bent 3



Span 1



Span 1



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## Maintenance Needs

**Date Reported:** 05/09/2018  
**Priority:** G - General/ Preventive maintenance  
**Type of Work:** None  
**Status:** Monitor  
**Component:**

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## Deficiency Description

GUARD RAIL NEEDS TO BE PAINTED ENTIRE BRIDGE.

## Remarks

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GUARD RAIL NEEDS TO BE PAINTED ENTIRE  
BRIDGE.



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### **Inspection Comments**

5/9/2018 AL,SS,DECK ,DEF.PHOTOS TAKEN PER THIS INSPECTION....5/6/2020...AL, Elevation, Deck, Def photos taken. Soundings taken this inspection...

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### **Deck Notes**

### **Superstructure Notes**

Girders/Beams: PRECAST UNITS---SPAN 3 UNIT 4 LEFT SIDE OF UNIT DELAM , 20 FOOT LONG....5/6/2020...All bolts holding precast units together have major corrosion and section loss...

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### **Substructure Notes**

PILE 2 BENT 1 , --5 INCH OUTER SHELL ROTTEN AT GROUND LINE WITH ONLY 6 INCH CORE REMAINING, ---18 INCH UP FROM GROUND LINE....PILE WAS REPAIRED 7/28/2016....