



Latitude:35.84929, Longitude:-94.10402

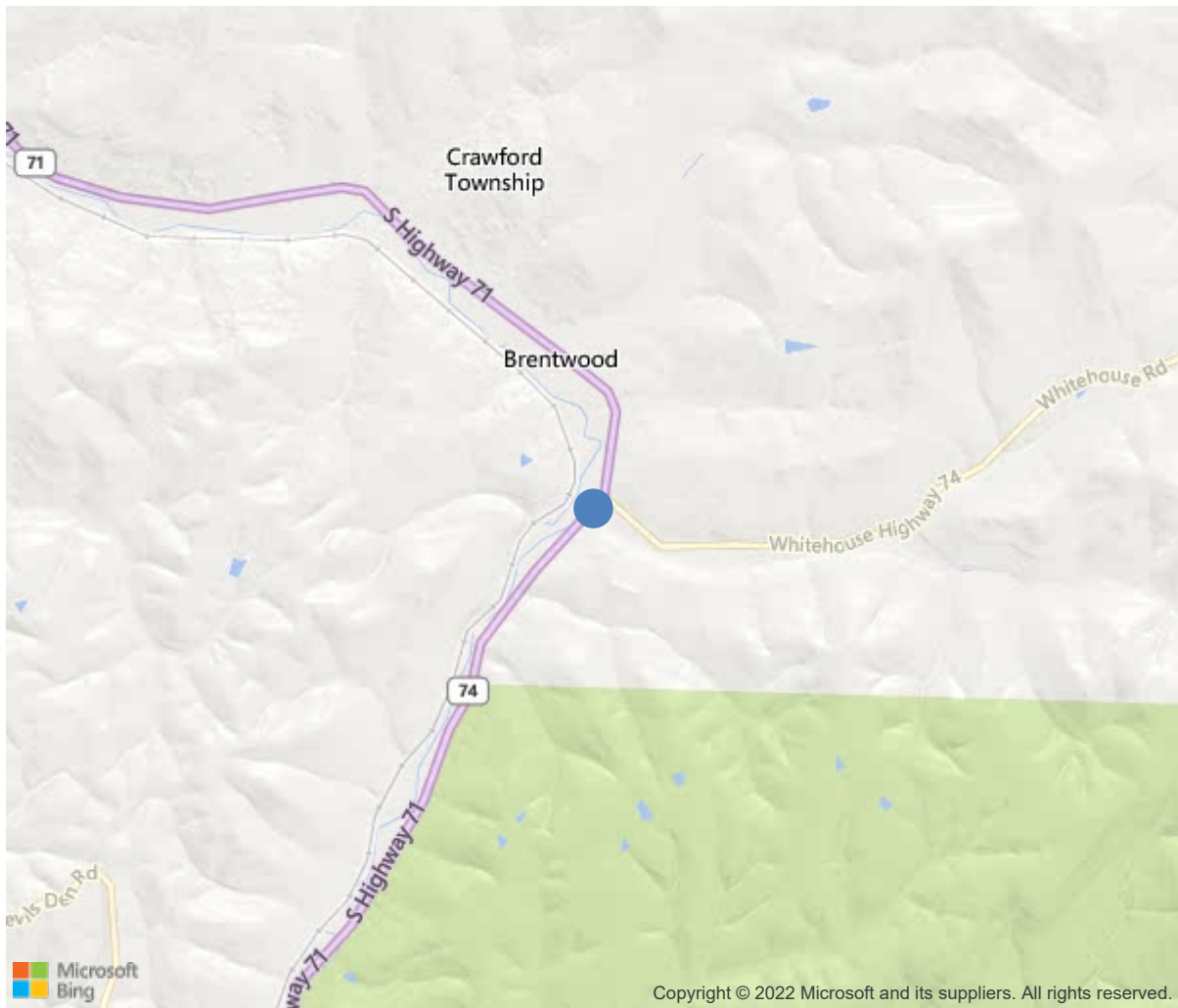
Route:71 Section:16 Log:6.83

Arnold Road ID:72x71x16xA, Arnold Log mile:6.801

District 04, Washington County

Owner: 1-State Highway Agency

6.83 Mi N Crawford Co Lin



35.84929, -94.10402

Inspection Direction : S to N



**Bridge #07058(Routine)**  
**US 71 - Washington over Hutchins Creek**  
**Location: 6.83 Mi N Crawford Co Lin**

**Team Lead: Eric West Inspection Date: June 01, 2022**

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	07058
(5) Inventory Route	71
(2) Highway Agency District	04
(3) County Code	143-Washington County, Arkansas
(4) Place Code	0
(6) Features Intersected	Hutchins Creek
(7) Facility Carried	US 71 - Washington
(9) Location	6.83 Mi N Crawford Co Lin
(11) Mile Point	6.83 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000071160
(16) Latitude	35.84929
(17) Longitude	-94.10402
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	42
Material	4-Steel continuous
Type	2-Stringer/Multi-beam or girder
(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	1-Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	1-Monolithic Concrete (concurrently placed
Type of Membrane	0-None
Type of Deck Protection	1-Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	2010
(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	1800
(30) Year of ADT	2018
(109) Truck ADT	5 %
GEOMETRIC DATA	
(48) Length of Maximum Span	65 ft
(49) Structure Length	165 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	40 ft
(52) Deck Width Out to Out	43.4 ft
(32) Approach Roadway Width (W/Shoulders)	40 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	41 ft
(53) Min Vert Clear Over Bridge Rdwy	99.9 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	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	4-Historical significance is not dete
CONDITION	
(58) Deck	8
(59) Superstructure	8
(60) Substructure	8
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	5-MS 18 / HS 20
(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	8
(68) Deck Geometry	7
(69) Clearances, Vertical/Horizontal	3
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1-Inspected feature meets currently a
(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	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	3900
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			06/2022
(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	No		
* 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.			



**Team Lead:** Eric West, **Inspection Date:** June 01, 2022

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	7123	6733	390	0	0
1120	Efflorescence/Rust Staining	SF	43	0	43	0	0
1130	Cracking (RC and Other)	SF	347	0	347	0	0
(12)							
-The driving surface of the deck has short duration longitudinal cracks. The cracks are most prevalent at the transverse saw joints. -The right lane has a full length longitudinal crack located approximately 2' left of white line. -The right shoulders of Spans # 1 and # 2 have transverse hairline cracking the full width of the shoulder visible from the driving surface. -The Left and Right overhang portion of the deck has transverse cracking with light efflorescence visible from the undersurface that correspond with the parapet joints. -The left gutter has light dirt and debris accumulation.							
107	Steel Open Girder/Beam	LF	825	825	0	0	0
515	Steel Protective Coating	SF	9083	908	8175	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	SF	9083	908	8175	0	0
(107)							
-The superstructure is A588 Weathering Steel with no apparent noteworthy deficiencies at this inspection. -No visible cracks in the steel beams.							
205	Reinforced Concrete Column	EA	6	6	0	0	0
(205)							
-No apparent noteworthy deficiencies at this inspection.							
215	Reinforced Concrete Abutment	LF	120	100	20	0	0
1130	Cracking (RC and Other)	LF	20	0	20	0	0
(215)							
-The top of the backwalls have several transverse cracks at variable spacing that are visible from the driving surface of the deck. -There is an area of honeycombing adjacent to expansion joint anchorage on the left side of the South abutment.							
234	Reinforced Concrete Pier Cap	LF	82	82	0	0	0
(234)							
-No apparent noteworthy deficiencies at this inspection.							
301	Pourable Joint Seal	LF	80	72	0	7	1
2310	Leakage	LF	7	0	0	7	0
2320	Seal Adhesion	LF	1	0	0	0	1
(301)							
-Abutment # 1 backwall has three areas of staining in bay # 4 from apparent joint seal leakage. -Abutment # 2 expansion joint sealant has one area of adhesion failure approximately 12" long located in the left lane at the white line. -Abutment # 2 backwall has areas of staining caused by apparent seal leakage.							

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**Team Lead:** Eric West, **Inspection Date:** June 01, 2022

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
310	Elastomeric Bearing	EA	20	20	0	0	0
515	Steel Protective Coating	SF	80	75	5	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	SF	5	0	5	0	0
(310)							
-No apparent noteworthy problems at this inspection.							
331	Reinforced Concrete Bridge Railing	LF	330	311	19	0	0
1130	Cracking (RC and Other)	LF	19	0	19	0	0
(331)							
-The New Jersey parapet walls have a few vertical hairline shrinkage cracks at variable spacing with no apparent noteworthy problems at this inspection.							



Roadway



Typical driving surface of the deck.





Typical undersurface of the deck.



Intermediate bent typical.





Abutment #1 typical.



Abutment #1 typical bearings.



## Maintenance Needs

**Date Reported:** 06/02/2020  
**Priority:** G - General/ Preventive maintenance  
**Type of Work:** Repair  
**Status:** Monitor  
**Inspection Direction** S to N  
**Component:** Deck

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### Deficiency Description

Deck -  
The driving surface of the deck has sealable longitudinal cracks in all spans.

### Remarks

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The driving surface of the deck has sealable longitudinal cracks in all spans.



Bridge #07058(Routine)  
US 71 - Washington over Hutchins Creek  
Location: 6.83 Mi N Crawford Co Lin

Team Lead: Eric West Inspection Date: June 01, 2022

Date Reported: 06/06/2022  
Priority: D- Routine  
Type of Work: Clean  
Status: Open  
Inspection Direction S to N  
Component: Channel

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#### Deficiency Description

Channel-  
Light drift accumulation at Bent # 2.

#### Remarks

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Bent #2 light drift accumulation.





**Bridge #07058**(Routine)

**US 71 - Washington over Hutchins Creek**

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**Team Lead:** Eric West **Inspection Date:** June 01, 2022

### **Inspection Comments**

06/01/2022 - EJW & JPW - Routine Inspection conducted on this date.

05/19/2020 - RSM & SPC: Routine and Underwater Type II inspections conducted this date. See element notes for documentation. Channel sounded / profiled this inspection. See Microstation sketch linked in "Files" tab for sounding measurements. NBIS Condition Rating for item "61" lowered from "8" to "7" due to drift accumulation at bent # 2.

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### **Substructure Notes**

05/19/2020 - RSM & SPC: Underwater Type II inspection: Wading, probing and visual observation in low water conditions revealed that the channel has a large tree wedged between the columns at bent # 3. All footings have cover at this inspection with no apparent scour problems. Channel sounded / profiled this inspection. See Microstation sketch linked in "Files" tab for sounding measurements.