



Latitude:35.93165, Longitude:-94.18003

Route:71 Section:16 Log:15.257

Arnold Road ID:72x71x16xA, Arnold Log mile:15.187

District 04, 143 - Washington County

Owner: 1 - State Highway Agency

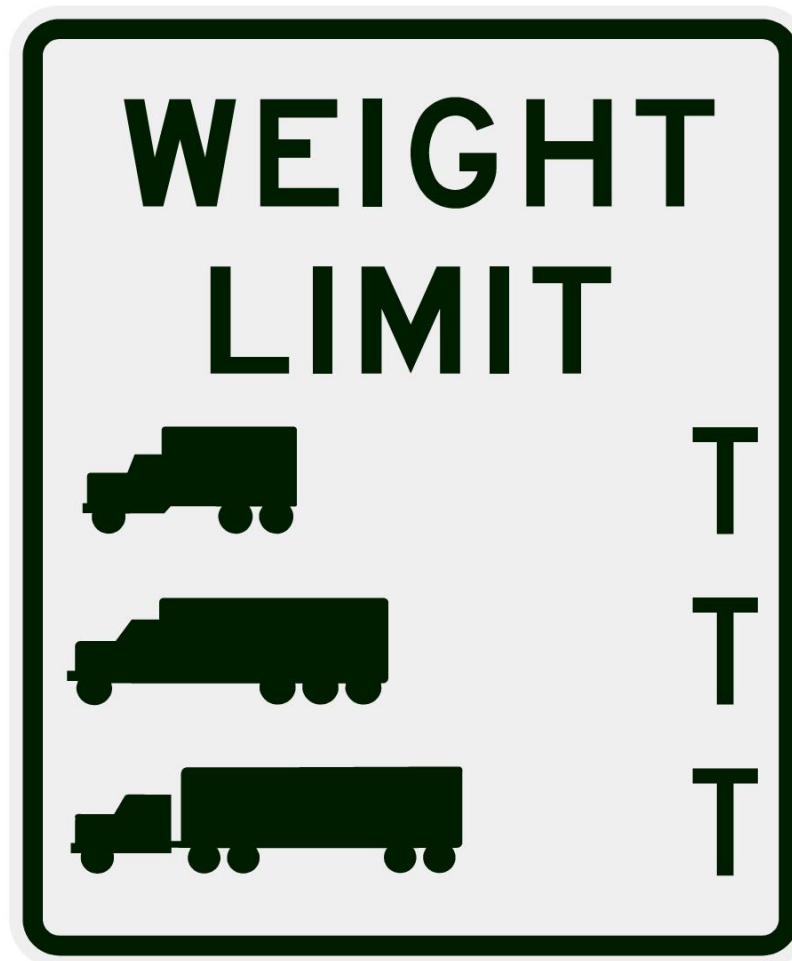
### Bridge Posting Information

41 - Structure Open/Posted/Closed: A - Open, no restriction

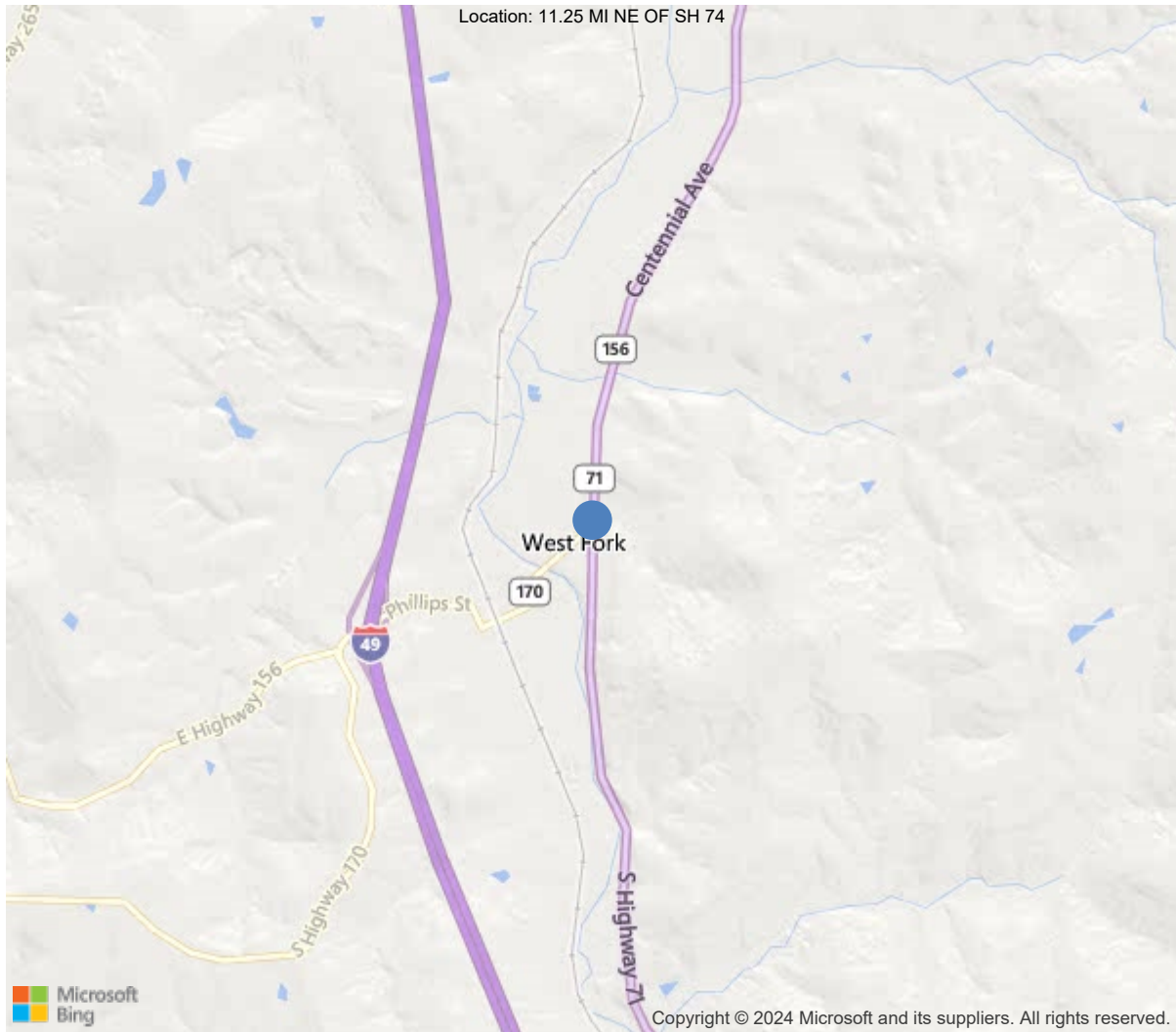
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	22		
Code 9 (31 Tons)	31		
Code 5 (40 Tons)	40		

If calculated Capacity is less than the Legal Load Listed, the Bridge Legally Requires Posting Signs to be installed by the Bridge Owner



30"x36" AR



35.93165, -94.18003



Asset #M1383(Routine)

US 71 - Washington over Ditch

Location: 11.25 MI NE OF SH 74

Team Lead: Eric West, Inspection Date: 07/24/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	M1383
(5) Inventory Route	1
(2) Highway Agency District	04 - District 04
(3) County Code	143 - Washington County
(4) Place Code	74360
(6) Features Intersected	Ditch
(7) Facility Carried	US 71 - Washington
(9) Location	11.25 MI NE OF SH 74
(11) Mile Point	15.257 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000071160
(16) Latitude	35.93165
(17) Longitude	-94.18003
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	119
Material	1 - Concrete
Type	19 - Culvert
(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	N - Not applicable
(108) Wearing Surface/Protective System	
Type of Wearing Surface	N - Not applicable (applies only to stru
Type of Membrane	N - Not applicable (applies only to stru
Type of Deck Protection	N - Not applicable (applies only to stru
AGE AND SERVICE	
(27) Year Built	1930
(106) Year Reconstructed	1987
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	5
Under	0
(29) Average Daily Traffic	5800
(30) Year of ADT	2018
(109) Truck ADT	3 %
(19) Bypass, Detour Length	25 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	10.5 ft
(49) Structure Length	21 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	0 ft
(52) Deck Width Out to Out	0 ft
(32) Approach Roadway Width (W/Shoulders)	54.1 ft
(33) Bridge Median	0 - No median
(34) Skew	0 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	99.9 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 w
(111) Pier Protection	1 - Navigation protection not
(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
(101) Parallel Structure	N - No parallel structure exis
(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
(20) Toll	3 - On free road. The structu
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	N
(59) Superstructure	N
(60) Substructure	N
(61) Channel & Channel Protection	5
(62) Culverts	6
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	29
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	18
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRAISAL	
(67) Structural Evaluation	
(68) Deck Geometry	N
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	6
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0 - Inspected feature does not meet
(36B) Transitions	0 - Inspected feature does not meet
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	0 - Inspected feature does not meet
(113) Scour Critical Bridges	8 - Bridge foundations determined t
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	7876
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	07/24/2023		
(91) Frequency	24		
(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.			



Asset #M1383(Routine)

District: 04, County: 143 - Washington County

Team Lead: Eric West, Inspection Date: 07/24/2023

#### General Observation

07/24/2023 - EJW & JPW - Routine Inspection conducted on this date.

07/07/2021 - RSM & SPC: Routine inspection conducted this date. See element notes for documentation.

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**61 - Channel/Channel Protection** (5 - Bank protection is being eroded. River control devices and/or embankment have major damage. Trees and brush restrict the channel.)

Channel:

-The channel has drift accumulation at the inlet end.

-The outlet end of channel is restricted by trees and heavy vegetation.

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#### **A-64 - Vegetation Removal Requested** (Y)

Channel-

The channel is restricted by trees and vegetation.

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ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
241	Reinforced Concrete Culvert	LF	144	58	60	26	0
1080	Delamination/Spall/Patched Area	LF	1	0	0	1	0
1090	Exposed Rebar	LF	1	0	0	1	0
1120	Efflorescence/Rust Staining	LF	11	0	1	10	0
1130	Cracking (RC and Other)	LF	6	0	6	0	0
1190	Abrasion/Wear (PSC/RC)	LF	67	0	53	14	0

(241) -Transverse cracks in the top slab with efflorescence at the construction joints.  
-Medium scale/abrasion on the bottom slab and base of the walls.  
-Minor concrete deterioration/spalling in the left end of the center wall.  
-There are shallow spalls with no exposed reinforcing steel in both head walls.  
-Barrel # 1 exterior has a 3” shallow spall with exposed reinforcing steel on the right side located near the top slab juncture adjacent to drop inlet approximately 10’ from the wing wall juncture.  
-Barrel # 1 base of the exterior wall has concrete deterioration up to 4” deep located approximately 11’ from the inlet end of the structure.  
-Barrel # 2 base of the exterior wall has a small area of honeycombing with deteriorated concrete up to 2 1/2” deep located at the outlet end of the structure.  
-Barrel # 2 exterior wall has a 6’ long diagonal crack on the right side at the drainage pipe that's incorporated into the wall that measures up to 0.050” in width, the crack has efflorescence buildup. Additionally, the Rt widen section has a full width horizontal cracking located approximately half way up the wall and a narrow width diagonal crack that extends to the base of the wall at the wing wall juncture.  
-Barrel # 2 has up to 24” of streambed material accumulation at the outlet end (left side).

## Culvert

[illegible]



Elevation



Roadway



Barrel # 2 typical.



Barrel # 1 typical.



Barrel # 1 Rt concrete deterioration and section loss.



Barrel # 2 Rt diagonal cracking with efflorescence buildup.



Barrel # 2 Lt stream bed material accumulation.



Channel restricted by trees and vegetation.

#### Maintenance Needs

**Date Reported:** 07/22/2013

**Priority:** D- Routine

**Type of Work:** Repair (General)

**Status:** Monitor

**Component:** Element

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#### Deficiency Description

R.C. Box Culvert -

The base of the culvert walls have areas of abrasion/concrete deterioration. The worst areas are the base of the exterior wall of barrel # 1 which has concrete deterioration up to 4" deep located approximately 11' from the inlet end of the structure. The base of the exterior wall of barrel # 2 has a small area of honeycombing/concrete deterioration with up to 2-1/2" of concrete section loss at the outlet end of the structure.

#### Remarks

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Barrel # 1 Rt concrete deterioration and section loss.



North wall of Barrel # 2. Concrete deterioration.

### Maintenance Needs

**Date Reported:** 07/08/2021

**Priority:** D- Routine

**Type of Work:** Channel Work/Drift Removal

**Status:** Monitor

**Component:** Channel

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### Deficiency Description

Culvert -

The interior of both barrels have up to 24" of streambed material in the left side near outlet end.

### Remarks

07/24/2023 - EJW - Updated deficiency description to reflect current conditions.

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The interior of Barrel # 2 has up to 24" of streambed material in the left side near outlet end.



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**US 71 - Washington over Ditch**

**Location: 11.25 MI NE OF SH 74**

**Team Lead: Eric West, Inspection Date: 07/24/2023**

## **Routine Maintenance**

Check Box Maintenance Items

<b>Type of Maintenance</b>	<b>Is recommended?</b>
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	
A-56 - Joint Cleaning/Flushing Needed	
A-57 - Beam End and Bearing Paint Needed	
A-58 - Cap Cleaning/Flushing Needed	
A-59 - Joint Repair Needed	
A-60 - Full Beam Painting Needed	
A-61 - Polymer Overlay Advised	
A-62 - Hydro and LMC Advised	
A-63 Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	Yes

**A-54 - Sealable Deck Cracks**

**A-55 - Deck Washing Needed**

**A-56 - Joint Cleaning/Flushing Needed**



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**Team Lead: Eric West, Inspection Date: 07/24/2023**

**A-57 - Beam End and Bearing Painting Needed**

**A-58 - Cap Cleaning/Flushing Needed**

**A-59 - Joint Repair Needed**

**A-60 - Full Beam Painting Needed**

**A-61 - Polymer Overlay Advised**

**A-62 - Hydro and LMC Advised**

**A-63 - Missing/Incorrect Log Mile Signage**

**A-64 - Vegetation Removal Requested (Yes)**

Channel-

The channel is restricted by trees and vegetation.



Channel restricted by trees and vegetation.



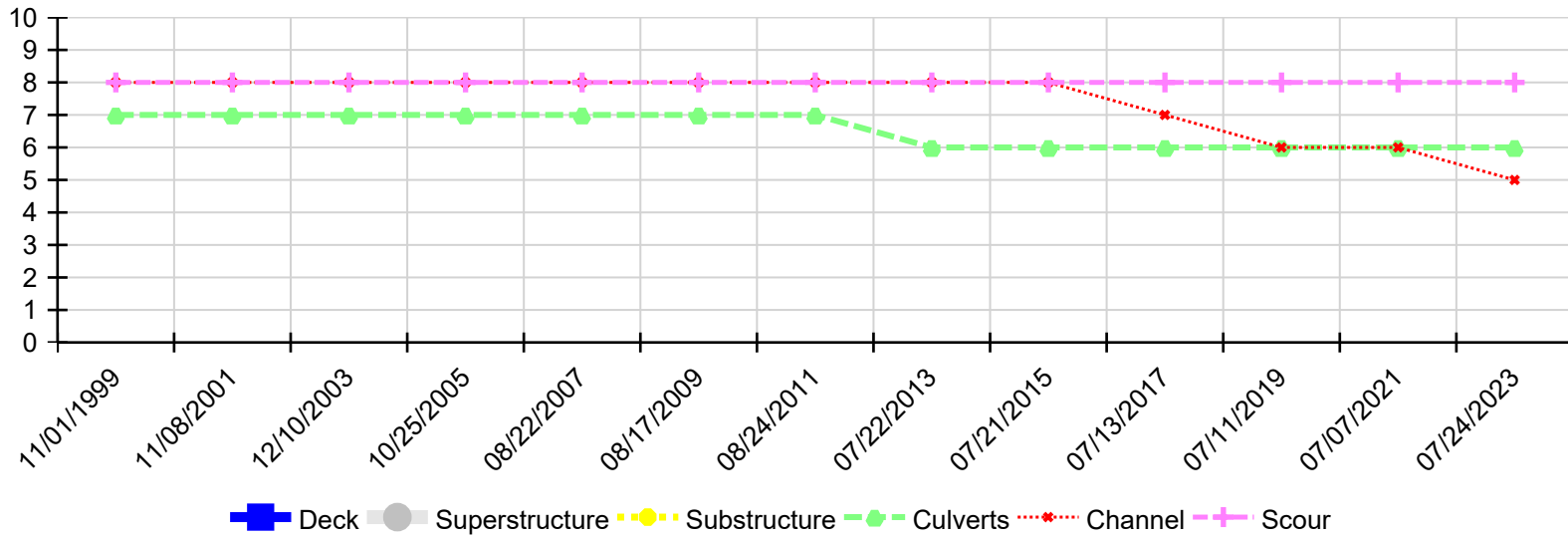
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US 71 - Washington over Ditch

Location: 11.25 MI NE OF SH 74

Team Lead: Eric West, Inspection Date: 07/24/2023

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
07/24/2023	N	N	N	6	5	8
07/07/2021	N	N	N	6	6	8
07/11/2019	N	N	N	6	6	8
07/13/2017	N	N	N	6	7	8
07/21/2015	N	N	N	6	8	8
07/22/2013	N	N	N	6	8	8
08/24/2011	N	N	N	7	8	8
08/17/2009	N	N	N	7	8	8
08/22/2007	N	N	N	7	8	8
10/25/2005	N	N	N	7	8	8
12/10/2003	N	N	N	7	8	8
11/08/2001	N	N	N	7	8	8
11/01/1999	N	N	N	7	8	8