



Latitude:34.69035, Longitude:-93.06314

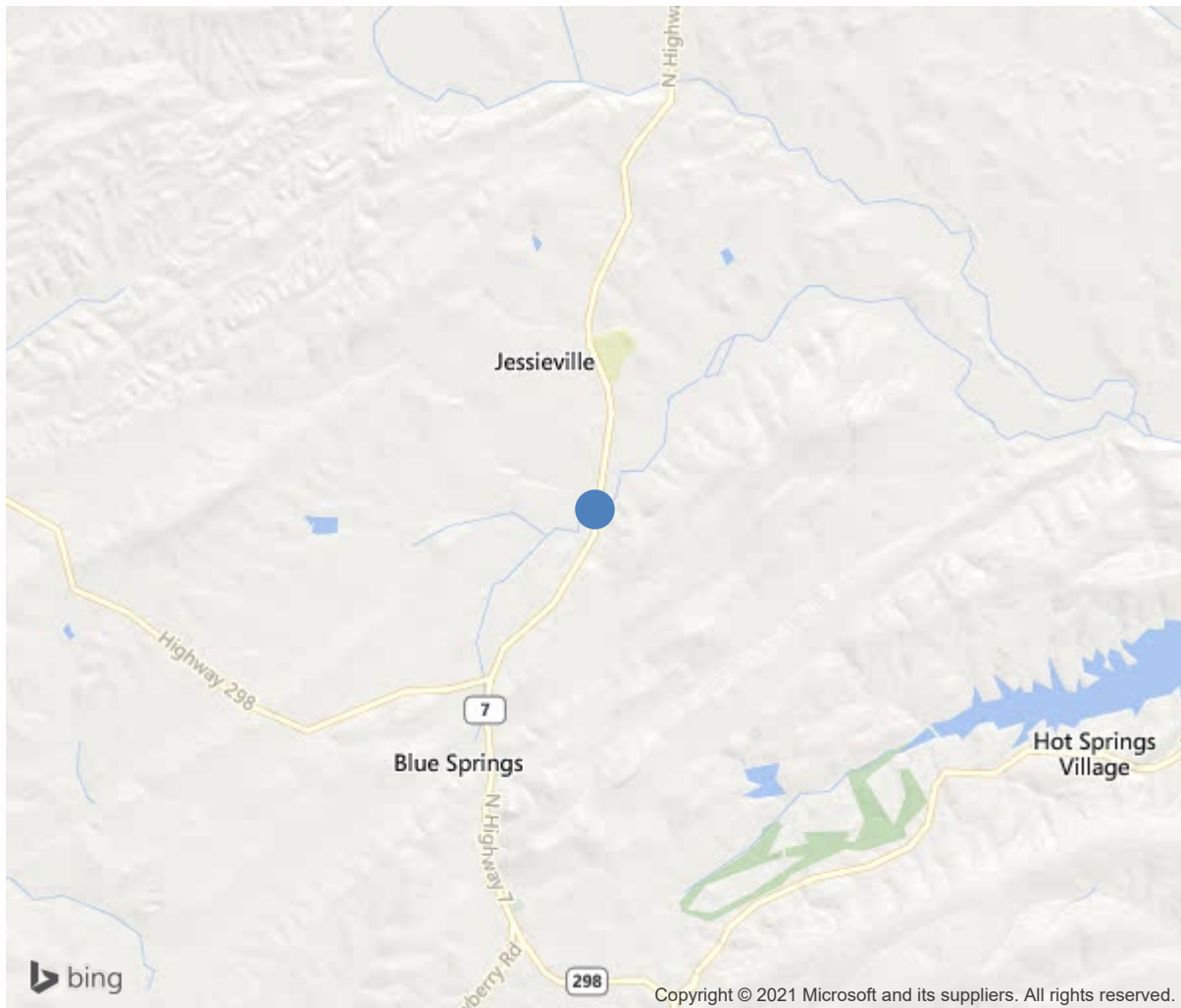
Route:7 Section:10 Log:11

Arnold Road ID:26x7x10xA, Arnold Log mile:10.999

District 06, Garland County

Owner: 1-State Highway Agency

1.00 MI N JCT OF SH 298



34.69035, -93.06314



**Bridge #01779(Routine)**  
**SH 7-10 Log 11.00 over COLEMAN CREEK**  
**Location: 1.00 MI N JCT OF SH 298**

**Team Lead: Shane Byrd Inspection Date: October 19, 2020**

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	01779
(5) Inventory Route	7
(2) Highway Agency District	06
(3) County Code	51-Garland County, Arkansas
(4) Place Code	0
(6) Features Intersected	COLEMAN CREEK
(7) Facility Carried	SH 7-10 Log 11.00
(9) Location	1.00 MI N JCT OF SH 298
(11) Mile Point	11 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000007100
(16) Latitude	34.69035
(17) Longitude	-93.06314
(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	1933
(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	1851
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	22 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	34 ft
(49) Structure Length	70 ft
(50) Curb or Sidewalk Width	
Left	1 ft
Right	1 ft
(51) Bridge Roadway Width Curb to Curb	20 ft
(52) Deck Width Out to Out	23.5 ft
(32) Approach Roadway Width (W/Shoulders)	24 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	21.7 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	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	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	6
(60) Substructure	6
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2-M 13.5 / H 15
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	59
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	2
Rating	35
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	5
(68) Deck Geometry	2
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	7
(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	8-Bridge foundations determined to be
PROPOSED IMPROVEMENTS	
(75) Type of Work	Replacement of bridge or other
(76) Length of Structure Improvement	95 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 235
(96) Total Project Cost	\$ 493
(97) Year of Improvement Cost Estimate	2004
(114) Future ADT	5652
(115) Year of Future ADT	2028
INSPECTIONS	
(90) Inspection Date	
(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





Bridge #01779(Routine)

SH 7-10 Log 11.00 over COLEMAN CREEK

Location: 1.00 MI N JCT OF SH 298

Team Lead: Shane Byrd, Inspection Date: October 19, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	1633	1543	90	0	0
1090	Exposed Rebar	SF	3	0	3	0	0
1120	Efflorescence/Rust Staining	SF	18	0	18	0	0
1130	Cracking (RC and Other)	SF	69	0	69	0	0
510	Wearing Surfaces	SF	1400	548	32	820	0
3210	Delam/Spall/Patched Area/Pothole	SF	32	0	32	0	0
3220	Crack (Wearing Surface)	SF	680	0	0	680	0
3230	Effectiveness (Wearing Surface)	SF	140	0	0	140	0
(16)	Wearing surface has large transverse and longitudinal cracks, scattered potholes, patches and abrasion. The soffit has cracks, cracks with efflorescence and exposed rebar in spans 1 and 2.						
110	Reinforced Concrete Open Girder/Beam	LF	210	208	2	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
(110)	All girders have small flexure cracks, girder 1 span 1 at 2' spacing. Girder 3 span 1 has a small delamination at bent 2. Girder 1 span 2 has a spall with exposed rebar at bent 3.						
205	Reinforced Concrete Column	EA	2	0	2	0	0
1190	Abrasion/Wear (PSC/RC)	EA	2	0	2	0	0
(205)	The columns at bent 2 have mild abrasion.						
210	Reinforced Concrete Pier Wall	LF	15	0	15	0	0
1130	Cracking (RC and Other)	LF	1	0	1	0	0
1190	Abrasion/Wear (PSC/RC)	LF	14	0	14	0	0
(210)	Bent 2 has a vertical crack and abrasion.						
215	Reinforced Concrete Abutment	LF	90	50	37	3	0
1080	Delamination/Spall/Patched Area	LF	3	0	3	0	0
1090	Exposed Rebar	LF	5	0	2	3	0
1130	Cracking (RC and Other)	LF	32	0	32	0	0

**Team Lead:** Shane Byrd, **Inspection Date:** October 19, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(215) Bent 1 has vertical and diagonal cracks and spalls and exposed rebar. Bent 3 has a horizontal crack the with of the abutment, spall with exposed rebar on the left side and spall on the right side.							
234	Reinforced Concrete Pier Cap	LF	19	15	2	2	0
1090	Exposed Rebar	LF	4	0	2	2	0
(234) Spalls with exposed rebar on the right side and ahead side of cap.							
301	Pourable Joint Seal	LF	24	4	0	20	0
2350	Debris Impaction	LF	20	0	0	20	0
(301) Bent 2 joint impacted by overlay.							
311	Movable Bearing	EA	6	6	0	0	0
(311) No notable defects at this inspection.							
330	Metal Bridge Railing	LF	140	140	0	0	0
515	Steel Protective Coating	SF	280	280	0	0	0
3440	Effectiveness (Steel Protective Coatings)	SF	0	0	0	0	0
(330) Rail post have cracks, splits and are hollow on the inside							



Deck overview.



Approach Northbound.





Bent 1 abutment has delam under beam 1.



Bent 2 cap has spalls with exposed rebar.





Span 2 left side soffit overhang has cracks with efflorescence.



Span 1 soffit left of girder 2 has spall with exposed rebar.





Span 2 left side soffit overhang has cracks with efflorescence.



Girder 1 span 2 at bent 3 has spall with exposed rebar.



Bent 3 abutment has spall with exposed rebar on left side of girder 1.





Bridge #01779(Routine)  
SH 7-10 Log 11.00 over COLEMAN CREEK  
Location: 1.00 MI N JCT OF SH 298

Team Lead: Shane Byrd Inspection Date: October 19, 2020

## Maintenance Needs

**Date Reported:** 10/13/2015  
**Priority:** C - Important  
**Type of Work:** None  
**Status:** Assigned  
**Component:**

---

## Deficiency Description

Approach roadway has settled up to 2" and has large potholes at both abutments

## Remarks

Assigned Garland Co 06261 11-2-15

---



Potholes



Potholes



Potholes at the north end of the bridge.



North asphalt approach has settled 2" and has potholes at abutment.



**Date Reported:** 10/13/2015  
**Priority:** C - Important  
**Type of Work:** Repair  
**Status:** Monitor  
**Component:** Substructure

---

**Deficiency Description**

Bent 2 and 3 has large spalls with rebar exposed

**Remarks**

---



Bent 2 right side, spall with exposed rebar.



Exposed rebar



Bent 3 left side, large spall with exposed rebar.



Bt. 2 ahead, right side, exposed rebar.





Bent 2 cap has spalls with exposed rebar.



**Bridge #01779**(Routine)

**SH 7-10 Log 11.00 over COLEMAN CREEK**

**Location: 1.00 MI N JCT OF SH 298**

**Team Lead:** Shane Byrd **Inspection Date:** October 19, 2020

### **Inspection Comments**

job 1146 dwg 3431 approach going north

---

### **Substructure Notes**

10/4/2018-KRM & RLS- Underwater Type 2 inspection performed this date. Channel profile and sounding sheet attached to Sketch tab. No notable defects at this inspection.