



Latitude:35.77471, Longitude:-91.70056

Route:106 Section:01 Log:2.41

Arnold Road ID:32x106x1xA, Arnold Log mile:2.41

District 05, 63 - Independence County

Owner: 1 - State Highway Agency

Inspection Direction: 3 - E to W

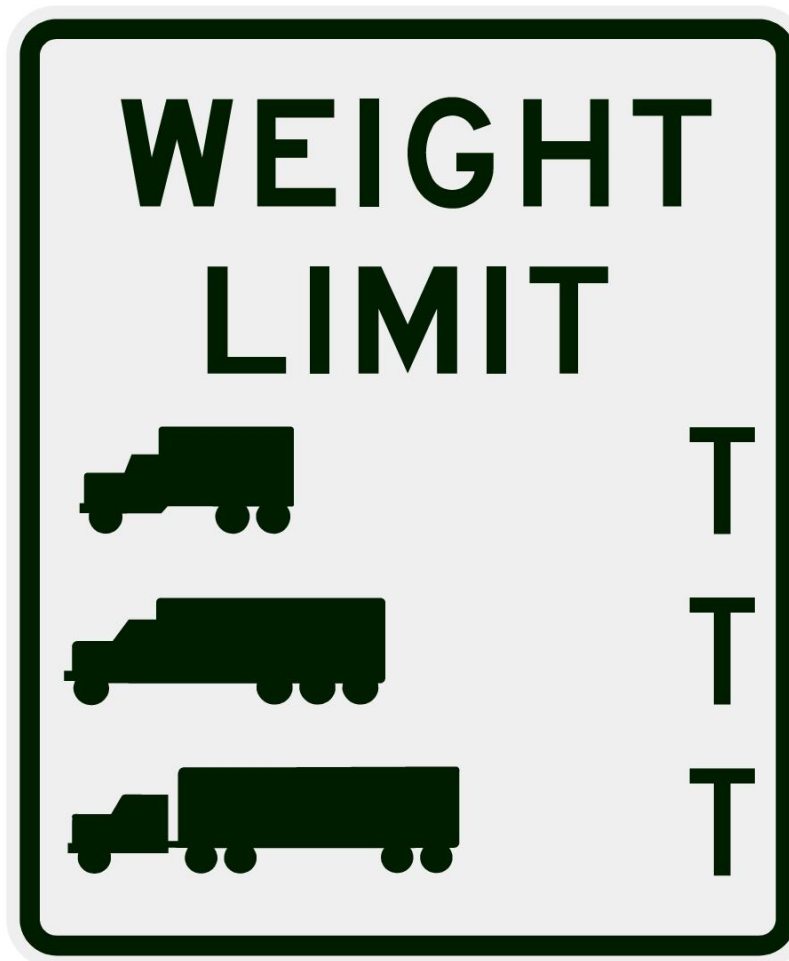
Bridge Posting Information

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

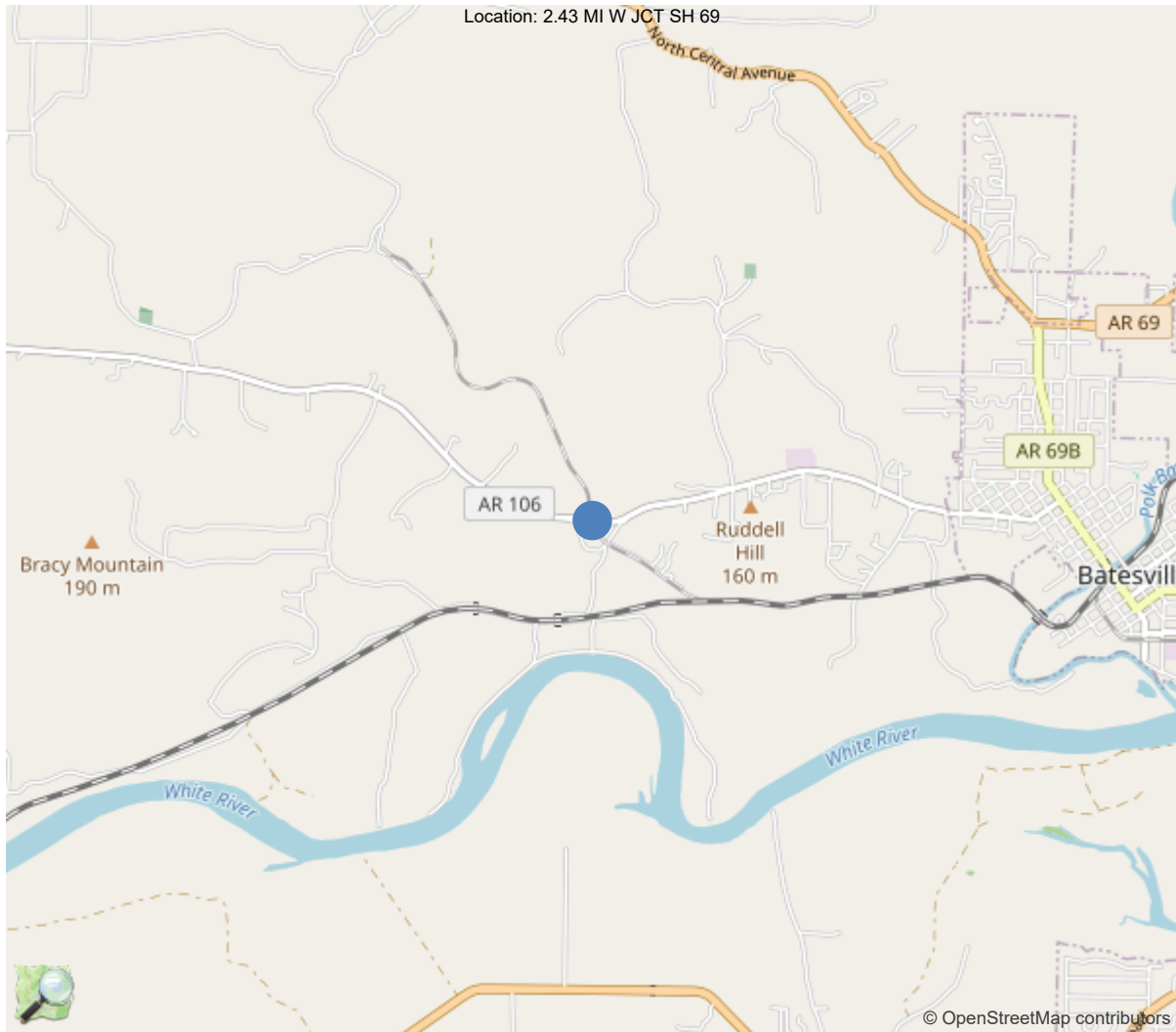
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	40		
Code 9 (31 Tons)	50		
Code 5 (40 Tons)	60		

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



35.77471, -91.70056



Asset #06180(Routine)
SH 106/Independ.Co over SPRING CREEK/MO.&N.AR RR
Location: 2.43 MI W JCT SH 69
Team Lead: Kerry Little Inspection Date: 10/26/2021

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	06180
(5) Inventory Route	1
(2) Highway Agency District	05 - District 05
(3) County Code	63 - Independence County
(4) Place Code	0
(6) Features Intersected	SPRING CREEK/MO.&N.AR RR
(7) Facility Carried	SH 106/Independ.Co
(9) Location	2.43 MI W JCT SH 69
(11) Mile Point	2.41 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.77471
(17) Longitude	-91.70056
(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	4
(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 pl
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1987
(106) Year Reconstructed	0
(42) Type of Service	17
On	1 - Highway
Under	7 - Railroad-waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	2100
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	8 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	120 ft
(49) Structure Length	432 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	29.9 ft
(52) Deck Width Out to Out	32.8 ft
(32) Approach Roadway Width (W/Shoulders)	38.1 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	31.5 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	38.25 ft
Ref:	
(55) Min Lat Underclear RT	48.3 ft
Ref:	
(56) Min Lat Underclear LT	10 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	7 - Rural Major Collector
(100) Defense Highway	0 - The inventory route is not
(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
(20) Toll	3 - On free road. The structure
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
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	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	
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	
(68) Deck Geometry	4
(69) Clearances, Vertical/Horizontal	9
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	7
(36A) Bridge Railings	1 - Inspected feature meets current
(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	2772
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	10/26/2021		
(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 #06180(Routine)
SH 106/Independ.Co over SPRING CREEK/MO.&N.AR RR
Location: 2.43 MI W JCT SH 69
Team Lead: Kerry Little **Inspection Date:** 10/26/2021

General Observation

Log Mile running West.



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	14170	13010	660	500	0
1120	Efflorescence/Rust Staining	SF	160	0	160	0	0
1130	Cracking (RC and Other)	SF	1000	0	500	500	0
(12) Efflorescent cracks to the Left and Right overhangs. Unsealed cracks to all spans.							
107	Steel Open Girder/Beam	LF	2150	2135	15	0	0
1000	Corrosion	LF	14	0	14	0	0
1020	Connection	LF	1	0	1	0	0
515	Steel Protective Coating	SF	22726	22726	0	0	0
(107) 1 loose bolt at first splice plate in web of Girder 1 @ Span 3. Few areas of flaking rust to bottom flange of Girders 1 & 5. Span 2, girders 1 & 5 has pack rust to first & second splice plate. Span 3, girders 1 & 5 has pack rust to first & second place plate. Span 4, girders 1 & 5 has pack rust to first & second place plate.							
205	Reinforced Concrete Column	EA	3	2	1	0	0
6000	Scour	EA	1	0	1	0	0
(205) Minor scour at Bent 2.							
215	Reinforced Concrete Abutment	LF	161	135	19	7	0
1120	Efflorescence/Rust Staining	LF	17	0	16	1	0
1130	Cracking (RC and Other)	LF	9	0	3	6	0
(215) 3 FH 1/16" vertical cracks to Abutment1 with 5 FH vertical efflorescent cracks to backwall. 3 FH 1/16" vertical cracks to Abutment 2 with 9 FH vertical efflorescent cracks to backwall. 3 FH vertical crack to Left wingwall @ Abutment 2 3' efflorescent cracking to Right wing @ Abutment 2.							
220	Reinforced Concrete Pile Cap/Footing	LF	10	10	0	0	0
(220) 10' of footing exposed @ Bent 3.							
234	Reinforced Concrete Pier Cap	LF	93	82	11	0	0
1130	Cracking (RC and Other)	LF	11	0	11	0	0
(234) Minor vertical hairline cracks to all Caps.							
303	Assembly Joint with Seal	LF	60	60	0	0	0
310	Elastomeric Bearing	EA	25	18	7	0	0
2220	Alignment	EA	7	0	7	0	0
515	Steel Protective Coating	SF	50	50	0	0	0
(310) Elastomeric bearings 1-5 @ Abutment 2 are misaligned. Elastomeric bearings 1 & 5 @ Abutment 1 are slightly misaligned.							



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
331	Reinforced Concrete Bridge Railing	LF	864	757	107	0	0
1130	Cracking (RC and Other)	LF	107	0	107	0	0
(331) Vertical cracking to Left & Right parapets.							



Elevation with log mile going right.



Roadway with log mile looking west.



Overall deck @ span 1.



Overall deck below @ span 1.



10/27/2021

Overall deck below @ span 3.



10/27/2021

Typical cracks to deck @ all spans.



10/27/2021

Typical cracks to deck @ all spans.



10/27/2021

Typical efflor cracks to Lt & Rt overhangs.



Span 2, girders 1 & 5 has pack rust to first splice plate.



Full height vertical crack @ abutment 1.



Typical efflor cracks to back wall @ abutment 1.



Full height vertical efflor crack @ abutment 2.



Typical vertical cracks to all caps.



Elastomeric bearings 1-5 @ Abutment 2 are misaligned.
Bearing 1.



Elastomeric bearings 1-5 @ Abutment 2 are misaligned.
Bearing 5.



Typical cracks to Lt & Rt parapet wall.

Maintenance Needs

Date Reported: 10/15/2015

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 9 - None

Status: Monitor

Component:

Deficiency Description

Span 3 - Girder 1 has 1 loose bolt at first splice plate in web.

Remarks



Span 3 has 1 loose bolt at first splice plate in web of Girder 1.



Span 3 has 1 loose bolt at first splice plate in bottom flange of Girder 4



Span 3 - Girder 1 has 1 loose bolt at first splice plate in web.

Maintenance Needs

Date Reported: 10/21/2019

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 0 - N/A

Status: Monitor

Component:

Deficiency Description

Trees & vegetation @ all spans.

Remarks



Trees & vegetation @ all spans.



Trees & vegetation @ all spans.

Maintenance Needs

Date Reported: 10/15/2015

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component:

Deficiency Description

Unsealed transverse cracks to deck @ all Spans.

Remarks



Span 2 Deck cracks.



Span 1 Deck cracks.



Unsealed transverse cracks to deck @ all Spans.

Maintenance Needs

Date Reported: 10/15/2015

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component:

Deficiency Description

Approach guardrail has minor collision damage at Abutment 2 Left and Right.

Remarks



Right approach guard rail @ Abutment 2.



Approach guardrail has minor collision damage at
Abutment 2 Left and Right.
Lt approach guard rail.



Approach guardrail has minor collision damage at
Abutment 2 Left and Right.



Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
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	

A-54 - Sealable Deck Cracks

A-55 - Deck Washing Needed

A-56 - Joint Cleaning/Flushing Needed



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A-57 - Girder End and Bearing Painting Needed

A-58 - Cap Cleaning/Flushing Needed

A-59 - Joint Repair Needed

A-60 - Full Girder Painting Needed

A-61 - Polymer Overlay Advised

A-62 - Hydro and LMC Advised

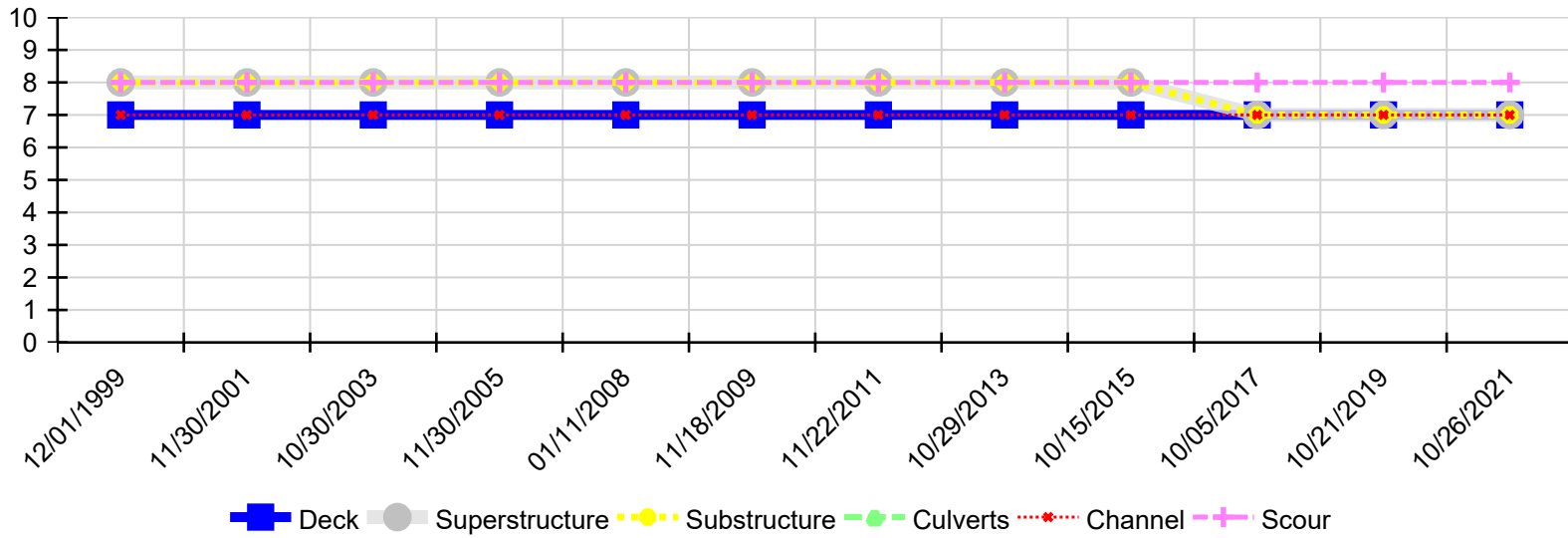
A-63 - Missing/Incorrect Log Mile Signage

A-64 - Vegetation Removal Requested



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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
10/26/2021	7	7	7	N	7	8
10/21/2019	7	7	7	N	7	8
10/05/2017	7	7	7	N	7	8
10/15/2015	7	8	8	N	7	8
10/29/2013	7	8	8	N	7	8
11/22/2011	7	8	8	N	7	8
11/18/2009	7	8	8	N	7	8
01/11/2008	7	8	8	N	7	8
11/30/2005	7	8	8	N	7	8
10/30/2003	7	8	8	N	7	8
11/30/2001	7	8	8	N	7	8
12/01/1999	7	8	8	N	7	8