

Bridge 06179 Inspection Report



Latitude:34.43155, Longitude:-93.08627

Route:7 Section:09 Log:4.199

Arnold Road ID:26x7x9xA, Arnold Log mile:4.121

District 06, 51 - Garland County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

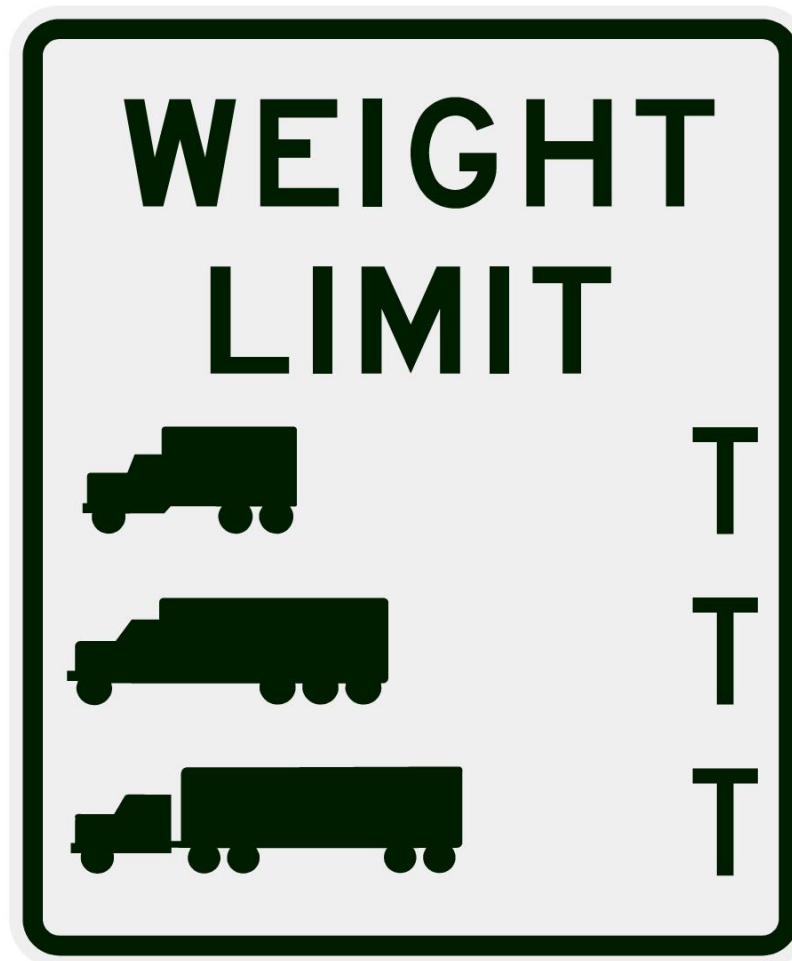
Bridge Posting Information

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

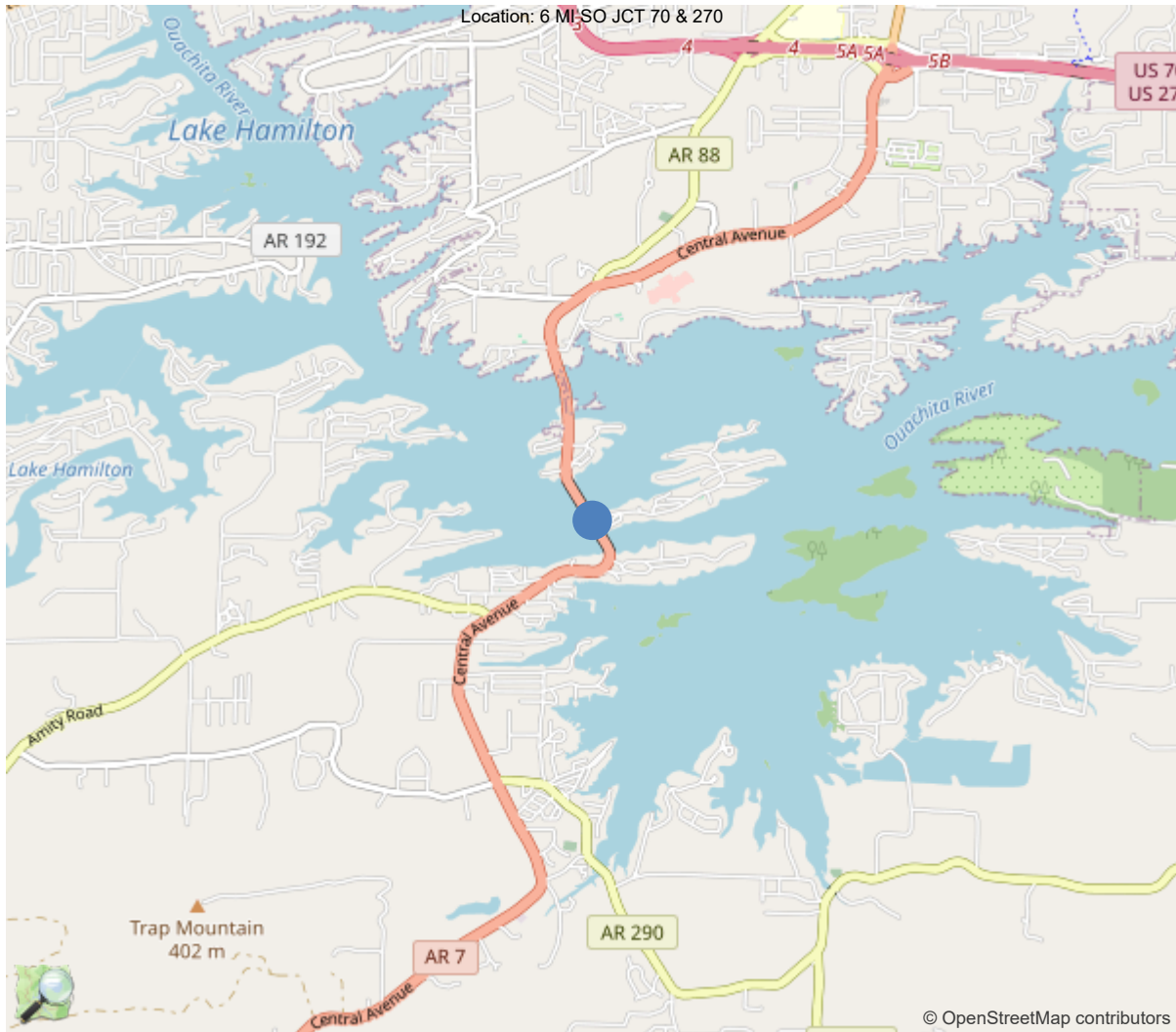
70 - Bridge Posting: 5 - Equal to or above legal loads

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



34.43155, -93.08627

National Bridge Inventory Data Sheet

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	06179
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	51 - Garland County
(4) Place Code	33400
(6) Features Intersected	OUACHITA RV-LAKE HAMILT
(7) Facility Carried	SH 7-9 Log 4.20
(9) Location	6 MI SO JCT 70 & 270
(11) Mile Point	4.199 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000007090
(16) Latitude	34.431545
(17) Longitude	-93.086273
(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	7
(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	9 - Other
AGE AND SERVICE	
(27) Year Built	1991
(106) Year Reconstructed	0
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	4
Under	0
(29) Average Daily Traffic	18000
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	15 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	206 ft
(49) Structure Length	1278 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	67.9 ft
(52) Deck Width Out to Out	70.8 ft
(32) Approach Roadway Width (W/Shoulders)	74.1 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	69.6 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 w
(111) Pier Protection	5 - None present but re-evalua
(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	14 - Urban Other Principal Art
(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 structu
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	4 - Historical significance is
CONDITION	
(58) Deck	7
(59) Superstructure	8
(60) Substructure	7
(61) Channel & Channel Protection	8
(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	9
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(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	24974
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	09/29/2022		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	Yes	60	07/30/2018
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 #06179(Routine)

SH 7-9 Log 4.20 over OUACHITA RV-LAKE HAMILT

Location: 6 MI SO JCT 70 & 270

Team Lead: Chris Doggett **Inspection Date:** 09/29/2022

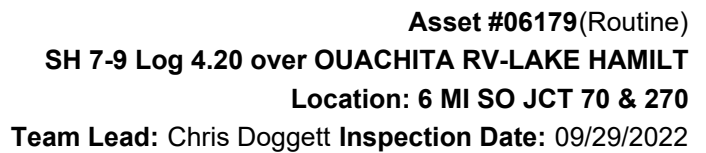
Inspection Notes

General Observation

Lane closure information is located under other tab. Job #60495, Drawing #28874 for layout.

Utility sketch linked 9/21/16

Item 60 rated 6 according to underwater inspection per.



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	90196	85321	4875	0	0
1080	Delamination/Spall/Patched Area	SF	3	0	3	0	0
1120	Efflorescence/Rust Staining	SF	672	0	672	0	0
1130	Cracking (RC and Other)	SF	4200	0	4200	0	0
(12) Deck pans in span 3 ahead of 2nd field splice have active corrosion under saw joint in deck. Transverse cracks in deck. Cracks with efflorescence in overhang soffits. Spalls in spans 3 and 4 right gutter. Spall in northbound lane span 5.							
107	Steel Open Girder/Beam	LF	10232	10191	41	0	0
1000	Corrosion	LF	41	0	41	0	0
515	Steel Protective Coating	SF	205935	13	205922	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	SF	205890	0	205890	0	0
3440	Effectiveness (Steel Protective Coatings)	SF	32	0	32	0	0
(107) Span 1 active rust with small flakes of rust on all bottom flanges. Active corrosion is present on the top and bottom flanges of girders 1 thru 4, 7 and 8, seven feet ahead of the second field splice due to leaking seal in saw joint. Span 4 girder 8, 2nd splice, flaking rust on the splice plate and nuts.							
210	Reinforced Concrete Pier Wall	LF	132	130	2	0	0
1090	Exposed Rebar	LF	2	0	2	0	0
(210) Bent 6, exposed rebar.							
215	Reinforced Concrete Abutment	LF	208	189	19	0	0
1120	Efflorescence/Rust Staining	LF	6	0	6	0	0
1130	Cracking (RC and Other)	LF	13	0	13	0	0
(215) Cracks and cracks with efflorescence in back wall of bents 1 & 8.							
234	Reinforced Concrete Pier Cap	LF	426	350	76	0	0
1120	Efflorescence/Rust Staining	LF	11	0	11	0	0
1130	Cracking (RC and Other)	LF	65	0	65	0	0
(234) Horizontal and vertical cracks and cracks with efflorescence bents 2 through 7.							
302	Compression Joint Seal	LF	71	62	9	0	0
2310	Leakage	LF	9	0	9	0	0
(302) Joint seal is leaking.							
303	Assembly Joint with Seal	LF	142	0	142	0	0
2350	Debris Impaction	LF	142	0	142	0	0
(303) Both finger joints are full of debris.							

Inspection Photos and Notes



10/05/2022

Cover photo



10/04/2022

Inventory looking east



10/04/2022

Deck view



10/04/2022

Span 5: Overhang has transverse cracking with efflorescence staining.



Soffit view



Backside of bent 3: Vertical and diagonal cracking up to 0.020".



Deck view



Span 5: unsealed transverse cracks. Common to all spans.

Maintenance Needs

Date Reported: 09/21/2016

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Deck all spans large unsealed cracks.

Remarks



Transverse crack in span 2.



Span 5 transverse cracks.

Maintenance Needs

Date Reported: 09/21/2016

Priority: C - Important

Type of Work: (Inactive) 1 - Clean

Status: Assigned

Component: Element

Deficiency Description

Both of the finger joints are full of debris.

Remarks

Assigned to Garland County 6-1-21.



Bent 8 joint is full of debris.

Maintenance Needs

Date Reported: 09/25/2020

Priority: C - Important

Type of Work: (Inactive) 1 - Clean

Status: Repair Documented

Component: Element

Deficiency Description

North abutment vegetation growing on MSE wall

Remarks

Assigned to Garland County 6-1-21.



State forces have cut the majority of the vines and vegetation at the north abutment.



Maintenance Needs

Date Reported: 10/05/2022

Priority: (Inactive) G - General/ Preventive maintenance

Status: Open

Type of Work: (Inactive) 1 - Clean

Component: Channel

Deficiency Description

Bent 2: vines climbing up cap.

Remarks



Bent 2: vines climbing up cap.



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-65 - Clogged deck drains?	
A-66 - Approach minor pothole/leveling needed	

A-54 - Sealable Deck Cracks

A-55 - Deck Washing Needed

A-56 - Joint Cleaning/Flushing Needed



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Location: 6 MI SO JCT 70 & 270

Team Lead: Chris Doggett Inspection Date: 09/29/2022

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

A-65 - Clogged deck drains?



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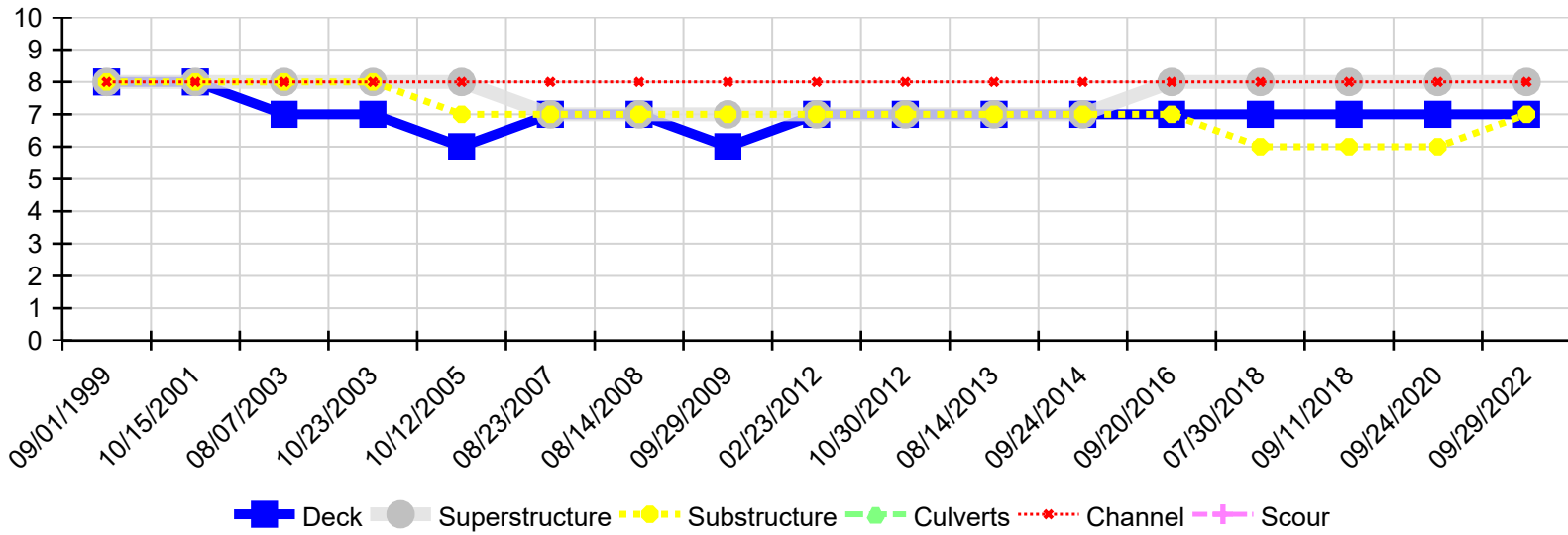
Team Lead: Chris Doggett Inspection Date: 09/29/2022

A-66 - Approach minor pothole/leveling needed



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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
09/29/2022	7	8	7	N	8	N
09/24/2020	7	8	6	N	8	N
09/11/2018	7	8	6	N	8	N
07/30/2018	7	8	6	N	8	N
09/20/2016	7	8	7	N	8	N
09/24/2014	7	7	7	N	8	N
08/14/2013	7	7	7	N	8	N
10/30/2012	7	7	7	N	8	N
02/23/2012	7	7	7	N	8	N
09/29/2009	6	7	7	N	8	N
08/14/2008	7	7	7	N	8	N
08/23/2007	7	7	7	N	8	N
10/12/2005	6	8	7	N	8	N
10/23/2003	7	8	8	N	8	N
08/07/2003	7	8	8	N	8	N
10/15/2001	8	8	8	N	8	N
09/01/1999	8	8	8	N	8	N