



Latitude:36.05259, Longitude:-90.47410

Route:412 Section:09B Log:1.742

Arnold Road ID:28x412x9BxA, Arnold Log mile:1.744

District 10, 55 - Greene County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E

Bridge Posting Information

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

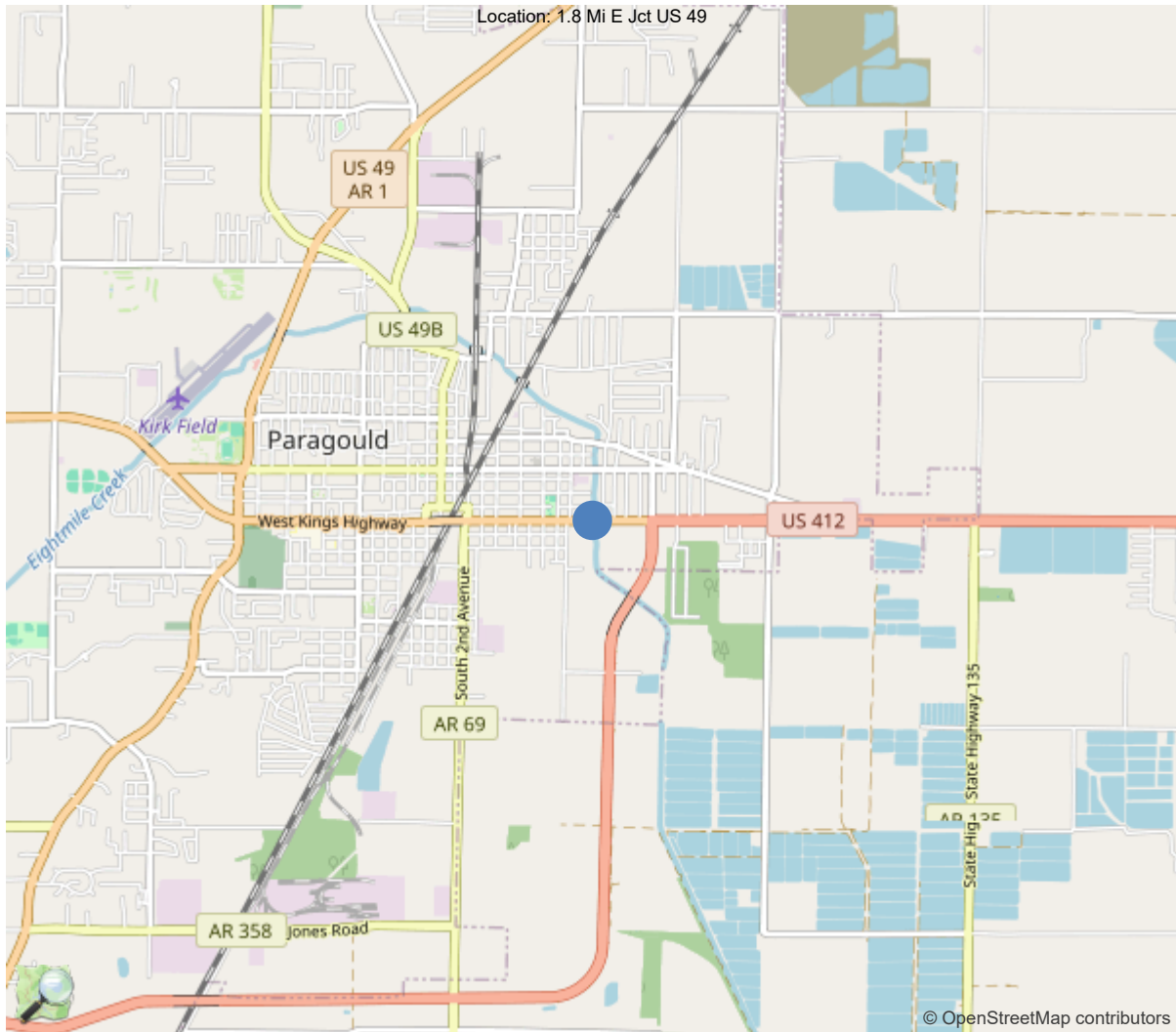
70 - Bridge Posting: 5 - Equal to or above legal loads

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



36.05259, -90.47410



Asset #05266(Routine)

US 412-09- LM 0.83 over EIGHT MILE CREEK

Location: 1.8 Mi E Jct US 49

Team Lead: Richard Jones Inspection Date: 09/13/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05266
(5) Inventory Route	1
(2) Highway Agency District	10 - District 10
(3) County Code	55 - Greene County
(4) Place Code	53390
(6) Features Intersected	EIGHT MILE CREEK
(7) Facility Carried	US 412-09- LM 0.83
(9) Location	1.8 Mi E Jct US 49
(11) Mile Point	1.742 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000412090
(16) Latitude	36.05259
(17) Longitude	-90.4741
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	21
Material	2 - Concrete continuous
Type	1 - Slab
(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	0 - None (no additional concrete thickne
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1972
(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	12000
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	50 ft
(49) Structure Length	132 ft
(50) Curb or Sidewalk Width	
Left	3 ft
Right	3 ft
(51) Bridge Roadway Width Curb to Curb	50 ft
(52) Deck Width Out to Out	58.3 ft
(32) Approach Roadway Width (W/Shoulders)	49.9 ft
(33) Bridge Median	0 - No median
(34) Skew	12 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	50 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	14 - Urban Other Principal Art
(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	1 - The inventory route is par
(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	5
(59) Superstructure	5
(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	3
(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	5 - Bridge foundations determined t
PROPOSED IMPROVEMENTS	
(75) Type of Work	35 - Bridge rehabilitation bec
(76) Length of Structure Improvement	132 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 345
(97) Year of Improvement Cost Estimate	2000
(114) Future ADT	15500
(115) Year of Future ADT	2038

INSPECTIONS *			
(90) Inspection Date	09/13/2023		
(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.			



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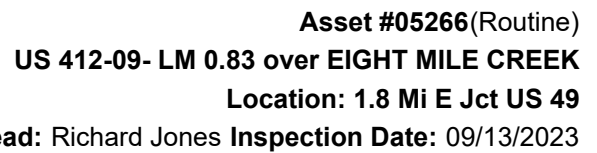
Team Lead: Richard Jones Inspection Date: 09/13/2023

58 - Deck (5 - FAIR CONDITION - all primary structural elements are sound but may have minor section loss, cracking, spalling or scour.)
Slab with voids has several spalled or patched areas.

59 - Superstructure (5 - FAIR CONDITION - all primary structural elements are sound but may have minor section loss, cracking, spalling or scour.)
See elements

60 - Substructure (7 - GOOD CONDITION - some minor problems.)
Mostly good condition

61 - Channel/Channel Protection (7 - Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift.)
Channel slopes are lined with concrete covered rip rap under and adjacent to bridge.



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	7128	3157	2028	1943	0
1080	Delamination/Spall/Patched Area	SF	856	0	63	793	0
1090	Exposed Rebar	SF	4	0	0	4	0
1120	Efflorescence/Rust Staining	SF	145	0	69	76	0
1130	Cracking (RC and Other)	SF	2139	0	1069	1070	0
1190	Abrasion/Wear (PSC/RC)	SF	827	0	827	0	0
(38) Bridge slabs have areas of moderate size map cracking. Some were sealed in the past. Slabs have several patched areas. Patches are in fair to poor condition. Slabs have a few spalls or delaminated areas. Span 3 has some rebar exposed. Slab soffits have longitudinal cracks with some efflorescence or rust stains. Slabs have a few spalls or delaminated areas along cracks. Slabs have cracked or delaminated areas near drain openings.							
215	Reinforced Concrete Abutment	LF	163	160	2	1	0
1120	Efflorescence/Rust Staining	LF	1	0	0	1	0
1130	Cracking (RC and Other)	LF	2	0	2	0	0
(215) Abutments have minor vertical cracks, some have efflorescence.							
227	Reinforced Concrete Pile	EA	26	13	13	0	0
1190	Abrasion/Wear (PSC/RC)	EA	13	0	13	0	0
(227) Piles have minor abrasion.							
234	Reinforced Concrete Pier Cap	LF	112	110	2	0	0
1130	Cracking (RC and Other)	LF	2	0	2	0	0
(234) Bent 2 cap has a vertical crack near pile 5.							
321	Reinforced Concrete Approach Slab	SF	3650	3430	110	110	0
1130	Cracking (RC and Other)	SF	220	0	110	110	0
(321) Approach slabs have unsealed cracks and areas of minor abrasion.							
330	Metal Bridge Railing	LF	264	264	0	0	0
(330) overall good condtion							
331	Reinforced Concrete Bridge Railing	LF	264	264	0	0	0
(331) Curbs have minor abrasion.							



Side



side



Roadway



Top of slab



aerial



Span 2



Span 3 soffit



Span 3 Rt



Span 1 cracks



Approach slab at end

Maintenance Needs

Date Reported: 08/20/2019

Priority: C - Important

Type of Work: Deck Repair

Status: Monitor

Component: Deck

Deficiency Description

Slabs have a few spalls or delaminated areas. Span 3 has some rebar exposed.

Remarks



Span 3 Rt



Span 3 Lt



Span 3



Bent 3 west bound lane



Deck



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Location: 1.8 Mi E Jct US 49

Team Lead: Richard Jones **Inspection Date:** 09/13/2023

Maintenance Needs

Date Reported: 08/23/2011

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Approach

Deficiency Description

Approach slabs have unsealed cracks and areas of minor abrasion.

Remarks

Maintenance Needs

Date Reported: 08/24/2015

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Deck

Deficiency Description

Slab soffits have longitudinal cracks with some efflorescence or rust stains. Slabs have a few spalls or delaminated areas along cracks. Slabs have cracked or delaminated areas near drain openings.

Remarks



soffit

Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	Yes
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	Yes
A-63 - Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	

A-54 - Sealable Deck Cracks (Yes)



Span 1 cracks



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A-55 - Deck Washing Needed

A-56 - Joint Cleaning/Flushing Needed

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 (Yes)

A-63 - Missing/Incorrect Log Mile Signage



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Team Lead: Richard Jones **Inspection Date:** 09/13/2023

A-64 - Vegetation Removal Requested

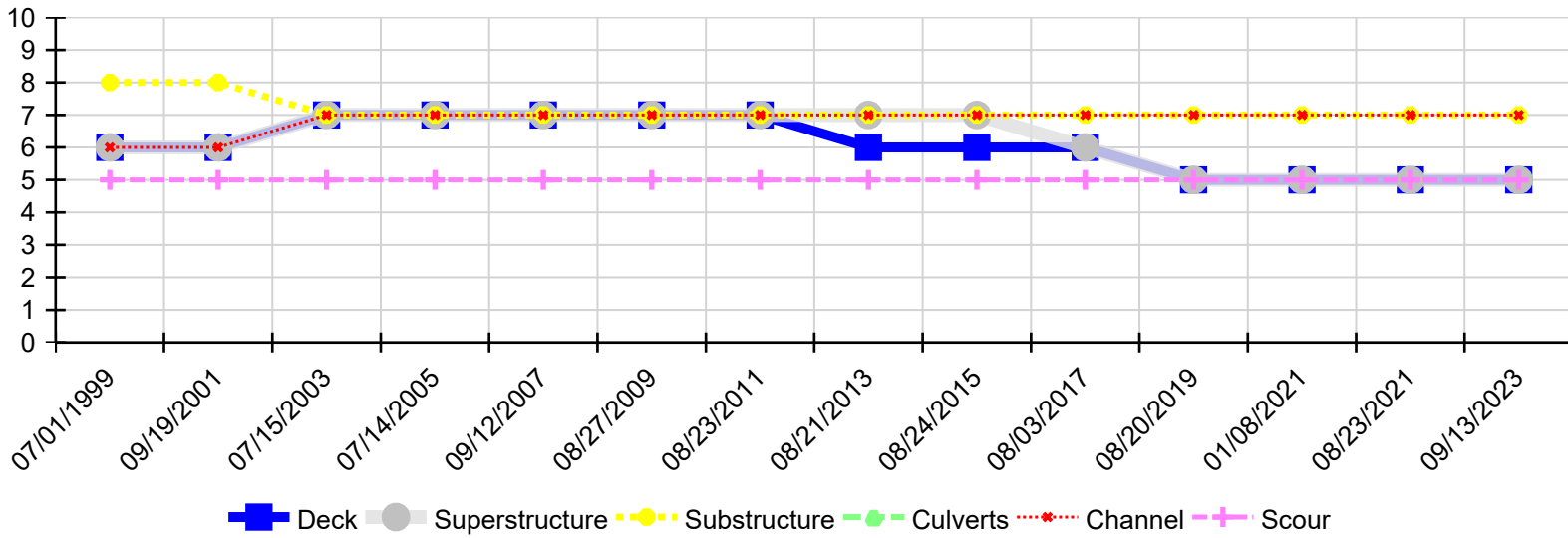


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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
09/13/2023	5	5	7	N	7	5
08/23/2021	5	5	7	N	7	5
01/08/2021	5	5	7	N	7	5
08/20/2019	5	5	7	N	7	5
08/03/2017	6	6	7	N	7	5
08/24/2015	6	7	7	N	7	5
08/21/2013	6	7	7	N	7	5
08/23/2011	7	7	7	N	7	5
08/27/2009	7	7	7	N	7	5
09/12/2007	7	7	7	N	7	5
07/14/2005	7	7	7	N	7	5
07/15/2003	7	7	7	N	7	5
09/19/2001	6	6	8	N	6	5
07/01/1999	6	6	8	N	6	5