



Latitude:35.77639, Longitude:-91.88734

Route:14 Section:07 Log:17.866

Arnold Road ID:69x14x7xA, Arnold Log mile:17.749

District 05, 137 - Stone County

Owner: 1 - State Highway Agency

Inspection Direction: 1 - N to S

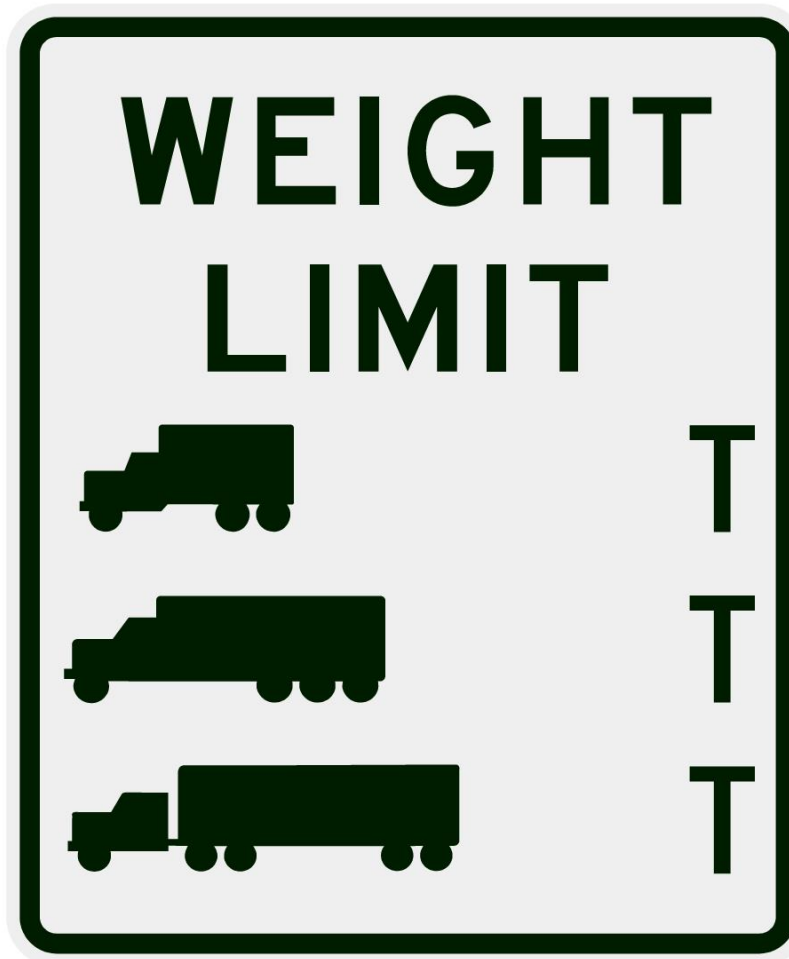
Bridge Posting Information

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

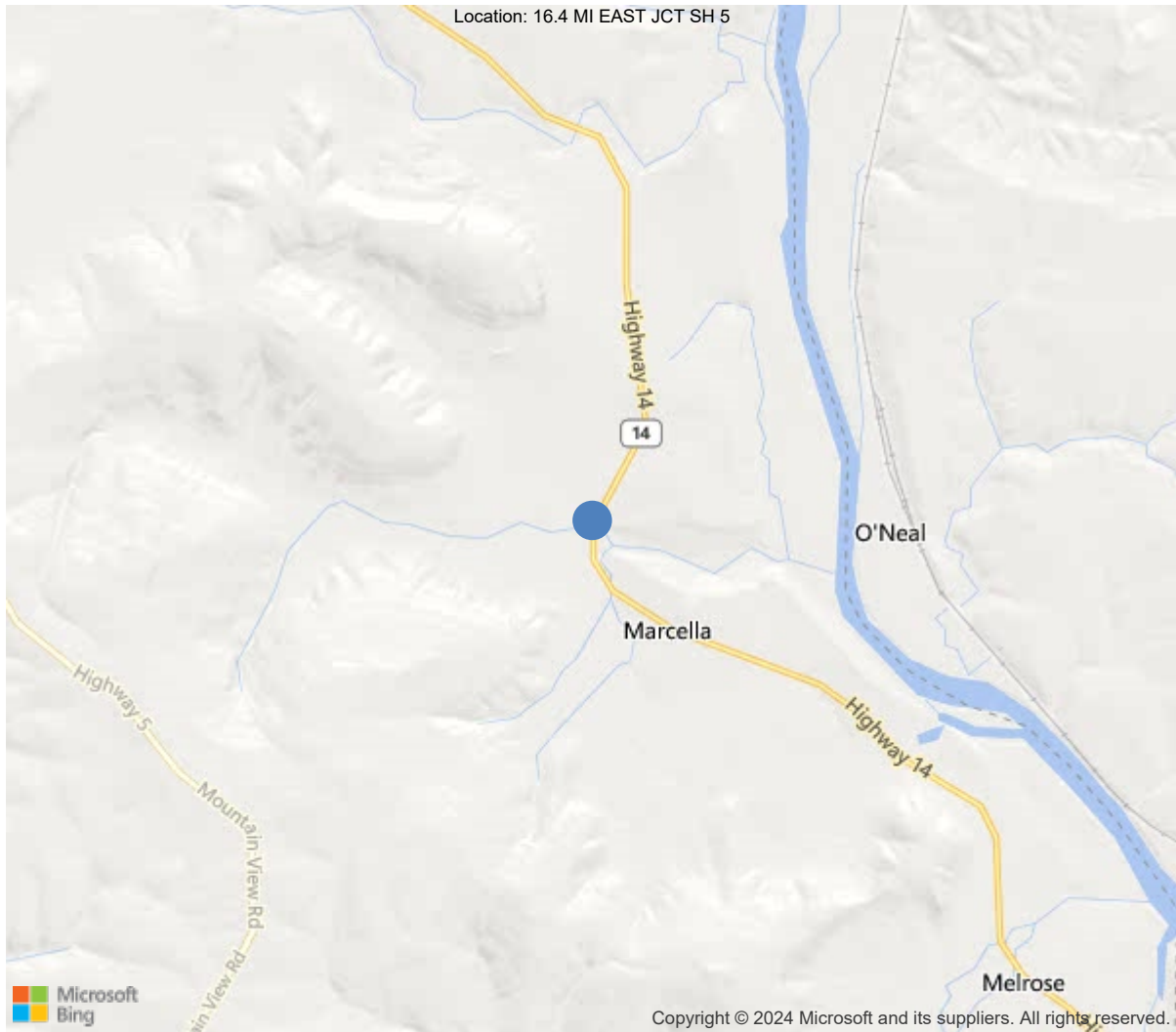
70 - Bridge Posting: 5 - Equal to or above legal loads

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)	46		
Code 5 (40 Tons)	54		

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



35.77639, -91.88734



Asset #05409(Routine, Underwater type 2)

SH 14/Stone County over WALLACE CREEK

Location: 16.4 MI EAST JCT SH 5

Team Lead: Floyd Haley Inspection Date: 04/03/2024

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05409
(5) Inventory Route	1
(2) Highway Agency District	05 - District 05
(3) County Code	137 - Stone County
(4) Place Code	0
(6) Features Intersected	WALLACE CREEK
(7) Facility Carried	SH 14/Stone County
(9) Location	16.4 MI EAST JCT SH 5
(11) Mile Point	17.866 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000014070
(16) Latitude	35.77639
(17) Longitude	-91.88734
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	11
Material	1 - Concrete
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	1 - Monolithic Concrete (concurrently pl
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1971
(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	1600
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	9 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	35 ft
(49) Structure Length	105 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	34.1 ft
(52) Deck Width Out to Out	37.7 ft
(32) Approach Roadway Width (W/Shoulders)	25.9 ft
(33) Bridge Median	0 - No median
(34) Skew	20 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	35.1 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	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 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	6
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	4 - M 18 / H 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	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	7
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	1 - Inspected feature meets current
(36C) Approach Guardrail	1 - Inspected feature meets current
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(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	1855
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	04/03/2024		
(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 #05409(Routine, Underwater type 2)

SH 14/Stone County over WALLACE CREEK

Location: 16.4 MI EAST JCT SH 5

Team Lead: Floyd Haley Inspection Date: 04/03/2024

General Observation

Elevation with Log Mile running to the Right.

Job Number: 5617

58 - Deck (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Deck is in satisfactory condition with diagonal & longitudinal cracking throughout & areas of moderate abrasion in gutter lines @ Span 3.

59 - Superstructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Superstructure is in Satisfactory condition with a delaminated area to Left drain opening @ Span 2 & spalled areas to outside edges of deck over Bents 1 & 2. Efflorescent cracking to undersurface of deck @ Span 2.

60 - Substructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Substructure is in overall Satisfactory condition with cracking to Column 2 @ Bent 1 & areas of delamination & spalling to cap @ Bent 1 & efflorescent cracking to cap @ Bent 2.

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 is in Good condition with only minor repairs needed.

A-51 - Inspection Direction (1 - N to S)

Roadway with Log Mile running Northeast to Southwest.



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Location: 16.4 MI EAST JCT SH 5
Team Lead: Floyd Haley Inspection Date: 04/03/2024

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	3919	3736	97	86	0
1080	Delamination/Spall/Patched Area	SF	9	0	3	6	0
1120	Efflorescence/Rust Staining	SF	4	0	4	0	0
1130	Cracking (RC and Other)	SF	110	0	90	20	0
1190	Abrasion/Wear (PSC/RC)	SF	60	0	0	60	0
(38) Spalls to outside edges of deck @ Bents 1 & 2. 3' delaminated area to outside edge of deck @ Left drain opening @ Span 2. Efflorescent cracking to underside of deck @ Span 2 near cap @ Bent 2. Diagonal & longitudinal cracking to deck @ all spans. Moderate abrasion to Left & Right gutter lines @ Span 3.							
205	Reinforced Concrete Column	EA	4	3	1	0	0
1130	Cracking (RC and Other)	EA	1	0	1	0	0
(205) Vertical cracking to Column 2 @ Bent 1.							
215	Reinforced Concrete Abutment	LF	86	86	0	0	0
234	Reinforced Concrete Pier Cap	LF	79	73	4	2	0
1080	Delamination/Spall/Patched Area	LF	3	0	2	1	0
1120	Efflorescence/Rust Staining	LF	3	0	2	1	0
(234) Bent 1: 1' spall to cap over center keyway on ahead side. Bent 1: 2' delaminated area to cap over Column 1 ahead side. Efflorescent cracking to cap @ Bent 2.							
301	Pourable Joint Seal	LF	73	0	0	73	0
2320	Seal Adhesion	LF	73	0	0	73	0
(301) Pourable joint seal: Adhesion failure.							
330	Metal Bridge Railing	LF	210	210	0	0	0



Elevation.



Typical undersurface.



Typical deck.



Right side of bridge: Channel view.



Left side of bridge: Channel view.



Inventory.



Bent 1, Ahead: Spalling to cap at key way. CS3Bent 1, adjacent to Column 1, Ahead: Delaminated area to cap.



Bent 1, Column 2: vertical cracking.



Joints at Bents 1 & 2: Seal adhesion failure.



Bent 2, Back: cracking with efflorescence.



Span 3, Right & Left gutter line: Moderate to heavy abrasion to deck. CS3.



Span 2: Diagonal cracking to deck. CS3.



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Span 1: Longitudinal cracking to deck. CS2.



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Span 2, Bent 2: Cracking with efflorescence to undersurface of deck. CS2.



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Span 3, Bent 2, Right & Left edges of slab: spalling.

Maintenance Needs

Date Reported: 04/20/2022

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Bridge

Deficiency Description

Spall to Lt & Rt outside edge of deck @ bent 2.

Remarks



Spall to Lt & Rt outside edge of deck @ bent 2.Rt side.



Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	Yes
A-55 - Deck Washing Needed	No
A-56 - Joint Cleaning/Flushing Needed	Yes
A-57 - Beam End and Bearing Paint Needed	No
A-58 - Cap Cleaning/Flushing Needed	No
A-59 - Joint Repair Needed	Yes
A-60 - Full Beam Painting Needed	No
A-61 - Polymer Overlay Advised	Yes
A-62 - Hydro and LMC Advised	No
A-63 - Missing/Incorrect Log Mile Signage	No
A-64 - Vegetation Removal Requested	No

A-54 - Sealable Deck Cracks (Yes)

A-55 - Deck Washing Needed (No)

A-56 - Joint Cleaning/Flushing Needed (Yes)



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A-57 - Beam End and Bearing Painting Needed (No)

A-58 - Cap Cleaning/Flushing Needed (No)

A-59 - Joint Repair Needed (Yes)

A-60 - Full Beam Painting Needed (No)

A-61 - Polymer Overlay Advised (Yes)

A-62 - Hydro and LMC Advised (No)

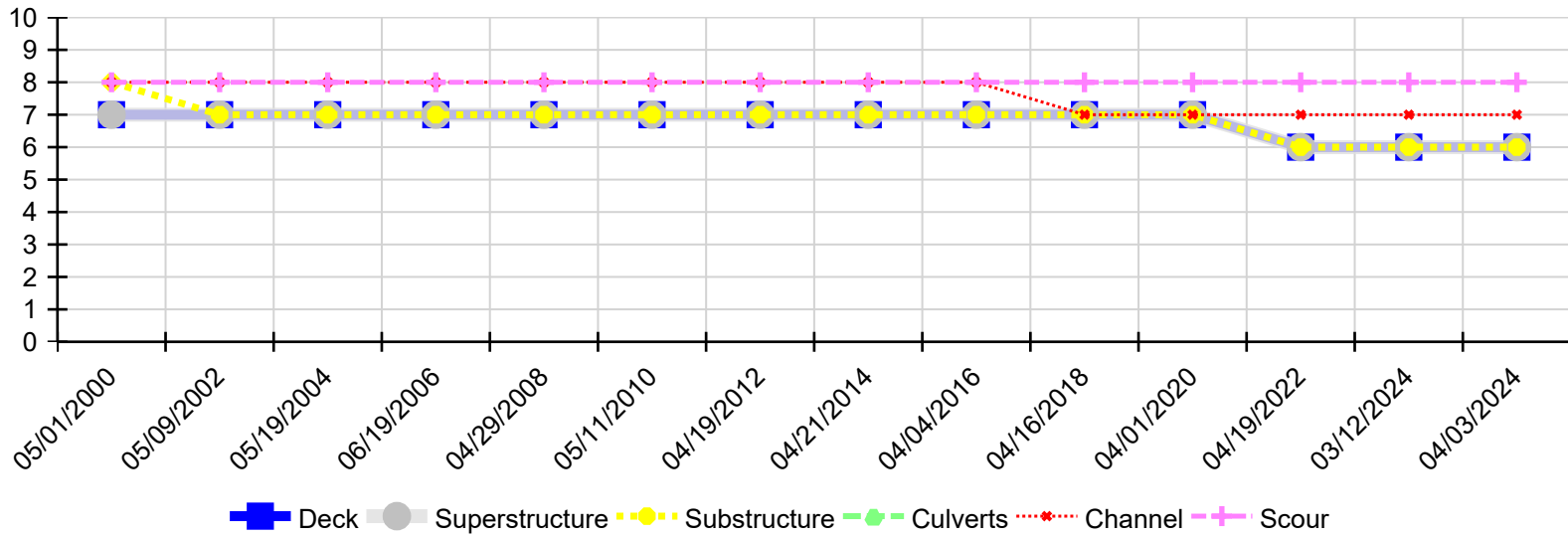
A-63 - Missing/Incorrect Log Mile Signage (No)

A-64 - Vegetation Removal Requested (No)



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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
04/03/2024	6	6	6	N	7	8
03/12/2024	6	6	6	N	7	8
04/19/2022	6	6	6	N	7	8
04/01/2020	7	7	7	N	7	8
04/16/2018	7	7	7	N	7	8
04/04/2016	7	7	7	N	8	8
04/21/2014	7	7	7	N	8	8
04/19/2012	7	7	7	N	8	8
05/11/2010	7	7	7	N	8	8
04/29/2008	7	7	7	N	8	8
06/19/2006	7	7	7	N	8	8
05/19/2004	7	7	7	N	8	8
05/09/2002	7	7	7	N	8	8
05/01/2000	7	7	8	N	8	8