



Latitude:33.90337, Longitude:-93.21297

Route:67 Section:04 Log:5.529

Arnold Road ID:10x67x4xA, Arnold Log mile:5.519

District 07, 19 - Clark County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E

### Bridge Posting Information

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

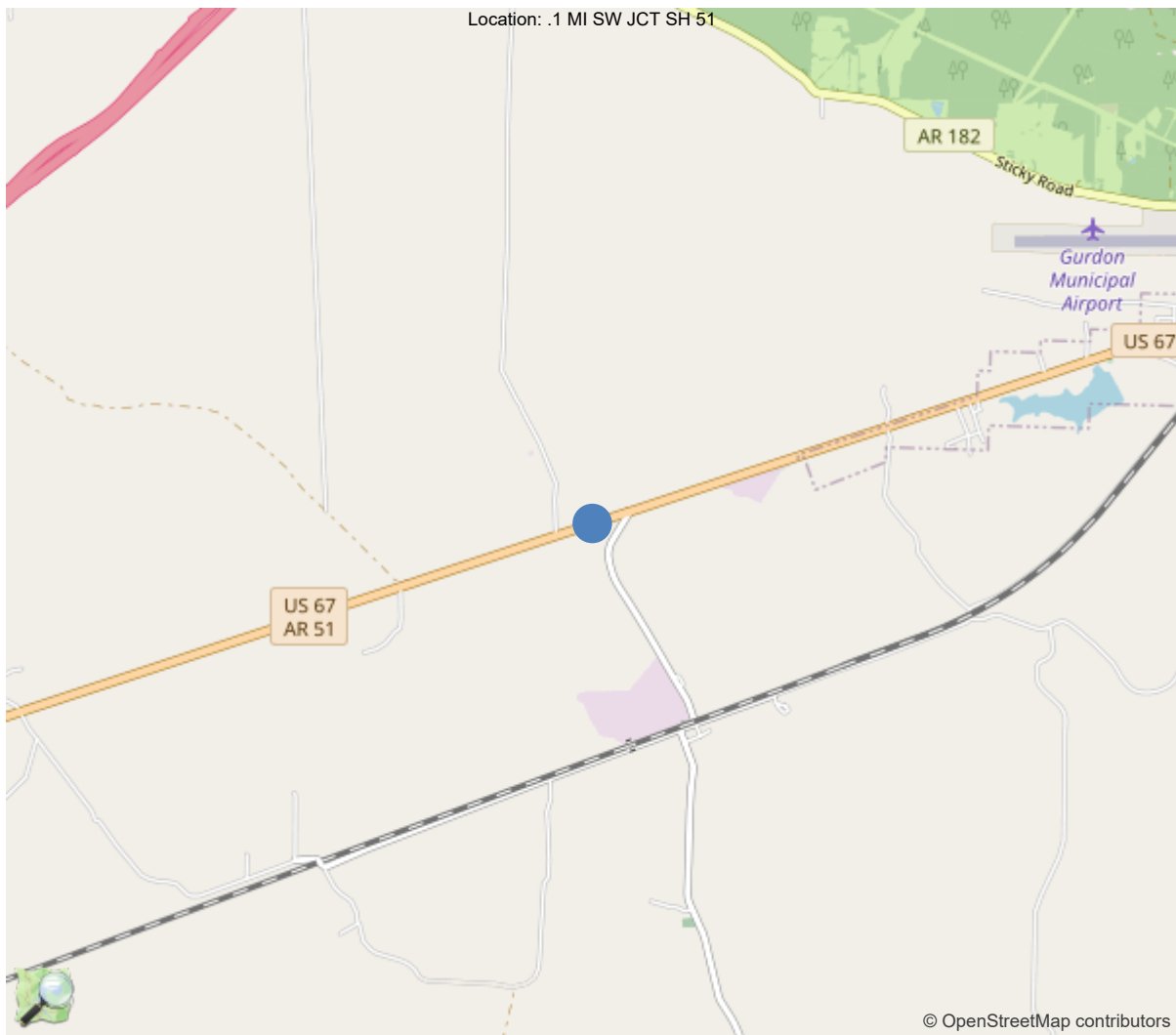
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	32		
Code 9 (31 Tons)	35		
Code 5 (40 Tons)	42		

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



33.90337, -93.21297





Asset #01485(Routine, Underwater type 2)

US 67 S-4 LM5.52 over MCNEELY CREEK

Location: .1 MI SW JCT SH 51

Team Lead: Rickie Bratton Inspection Date: 04/25/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	01485
(5) Inventory Route	1
(2) Highway Agency District	07 - District 07
(3) County Code	19 - Clark County
(4) Place Code	0
(6) Features Intersected	MCNEELY CREEK
(7) Facility Carried	US 67 S-4 LM5.52
(9) Location	.1 MI SW JCT SH 51
(11) Mile Point	5.529 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.9033665034542
(17) Longitude	-93.2129712351163
(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	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	6 - Bituminous
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1931
(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	2400
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	16 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	35 ft
(49) Structure Length	105 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	27 ft
(32) Approach Roadway Width (W/Shoulders)	38.1 ft
(33) Bridge Median	0 - No median
(34) Skew	30 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	24.9 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	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	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	7
(59) Superstructure	6
(60) Substructure	7
(61) Channel & Channel Protection	7
(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	47
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	28
(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	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0 - Inspected feature does not meet
(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	31 - Replacement of bridge or
(76) Length of Structure Improvement	132 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 125
(96) Total Project Cost	\$ 377
(97) Year of Improvement Cost Estimate	2001
(114) Future ADT	1931
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	04/25/2023		
(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.			



**Asset #01485**(Routine, Underwater type 2)

**US 67 S-4 LM5.52 over MCNEELY CREEK**

**Location: .1 MI SW JCT SH 51**

**Team Lead: Rickie Bratton Inspection Date: 04/25/2023**

### **General Observation**

Logged west to east.

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#### **58 - Deck** (7 - GOOD CONDITION - some minor problems.)

Joints: Transverse cracks @ joints abutments 1-2.

Railing: Damage to first rail joints span 1 right.

Wearing Surface: AC OL has two full length longitudinal cracks.

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

Girders/Beams: G # 3 span 2 - 2' spall with exposed steel mod. Sec. Loss.

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#### **60 - Substructure** (7 - GOOD CONDITION - some minor problems.)

Breastwall: 3 vertical cracks abutment 2 @ weep holes. Some efflorescence noted.

Wingwalls: Abutment 2 wing wall diagonal crack.

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ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	2835	2817	18	0	0
1120	Efflorescence/Rust Staining	SF	18	0	18	0	0
510	Wearing Surfaces	SF	2538	2138	0	400	0
3220	Crack (Wearing Surface)	SF	400	0	0	400	0
(510-16) 4/13/2021 JPR -- Wearing Surfaces = (105' x 24'2" = 105 x 24.17') = 2537.85 sq.ft. or 2538 sq.ft.							
110	Reinforced Concrete Open Girder/Beam	LF	315	305	8	2	0
1080	Delamination/Spall/Patched Area	LF	3	0	3	0	0
1090	Exposed Rebar	LF	2	0	0	2	0
1130	Cracking (RC and Other)	LF	5	0	5	0	0
205	Reinforced Concrete Column	EA	4	0	4	0	0
1190	Abrasion/Wear (PSC/RC)	EA	4	0	4	0	0
(205) 4/13/2021 JPR -- Reinforced Concrete Column = ( 2 columns/bent x 2 bents) = 4 columns per plans, see drawing no. 2743.							
210	Reinforced Concrete Pier Wall	LF	39	0	39	0	0
1190	Abrasion/Wear (PSC/RC)	LF	39	0	39	0	0
(210) 4/13/2021 JPR -- Reinforced Concrete Pier Wall = (19.5' x 2) = 39' per plans, see drawing no. 2743.							
215	Reinforced Concrete Abutment	LF	125.4	109.4	16	0	0
1120	Efflorescence/Rust Staining	LF	6	0	6	0	0
1130	Cracking (RC and Other)	LF	10	0	10	0	0
(215) Abutments + wingwalls = ((16.17' + 15.3229') = 31.4929' or 31.5') for abutment + wingwalls = (31.5' + 31.21875') = 62.71875' x 2 = 125.4375 or 125.4' per plans.							
234	Reinforced Concrete Pier Cap	LF	50	48	2	0	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
304	Open Expansion Joint	LF	62.4	8.4	54	0	0
2360	Adjacent Deck or Header	LF	54	0	54	0	0
(304) Open Expansion Joint = ( 27'/cos 30) = 31.1769' x 2 = 62.3536' or 62.4'							
331	Reinforced Concrete Bridge Railing	LF	210	200	10	0	0
7000	Damage	LF	10	0	10	0	0





Elevation



Span 1 soffit overview



Deck all spans cracks in wearing surface.



Deck overview





Approach roadway Eastbound



Profile



Deck



Underside





Roadway

### Maintenance Needs

**Date Reported:** 04/25/2023

**Priority:** C - Important

**Type of Work:** Replace (General)

**Status:** Open

**Component:** Miscellaneous

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### Deficiency Description

Log mile sign on East end of bridge is illegible.

### Remarks

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Log mile sign on East end of bridge is illegible.



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**Team Lead: Rickie Bratton Inspection Date: 04/25/2023**

## **Routine Maintenance**

### **Check Box Maintenance Items**

<b>Type of Maintenance</b>	<b>Is recommended?</b>
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**



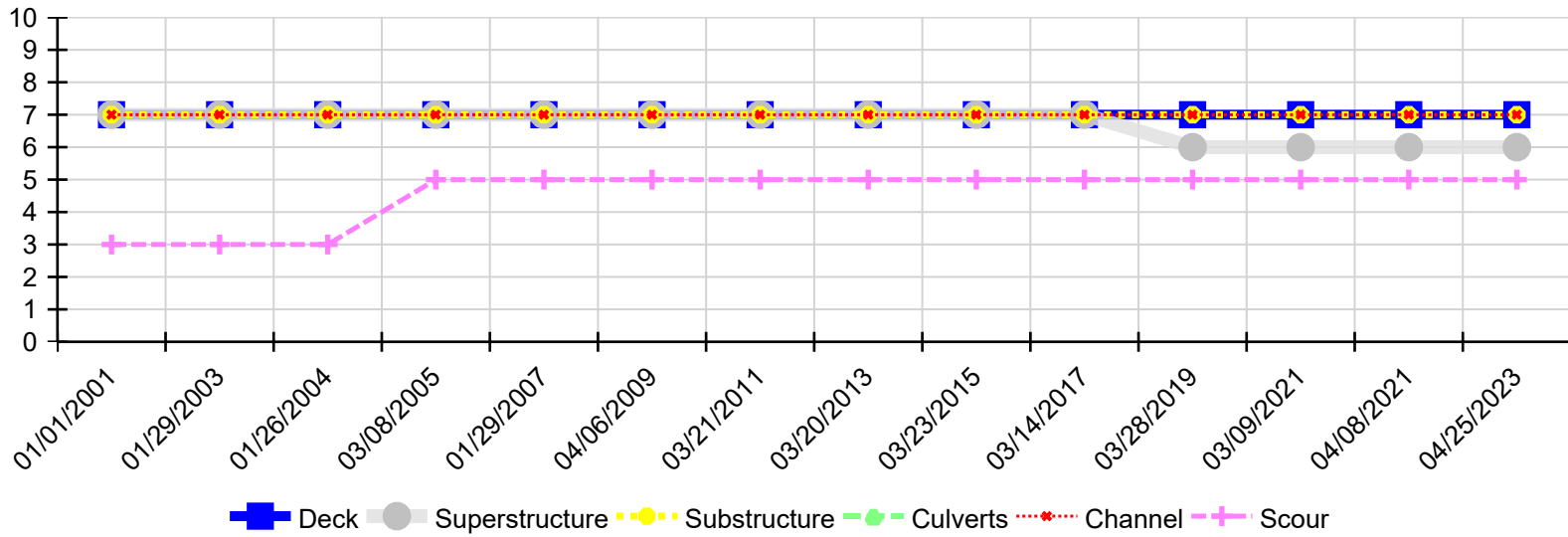
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Location: .1 MI SW JCT SH 51

Team Lead: Rickie Bratton Inspection Date: 04/25/2023

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
04/25/2023	7	6	7	N	7	5
04/08/2021	7	6	7	N	7	5
03/09/2021	7	6	7	N	7	5
03/28/2019	7	6	7	N	7	5
03/14/2017	7	7	7	N	7	5
03/23/2015	7	7	7	N	7	5
03/20/2013	7	7	7	N	7	5
03/21/2011	7	7	7	N	7	5
04/06/2009	7	7	7	N	7	5
01/29/2007	7	7	7	N	7	5
03/08/2005	7	7	7	N	7	5
01/26/2004	7	7	7	N	7	3
01/29/2003	7	7	7	N	7	3
01/01/2001	7	7	7	N	7	3