



Latitude:35.03452, Longitude:-92.07250

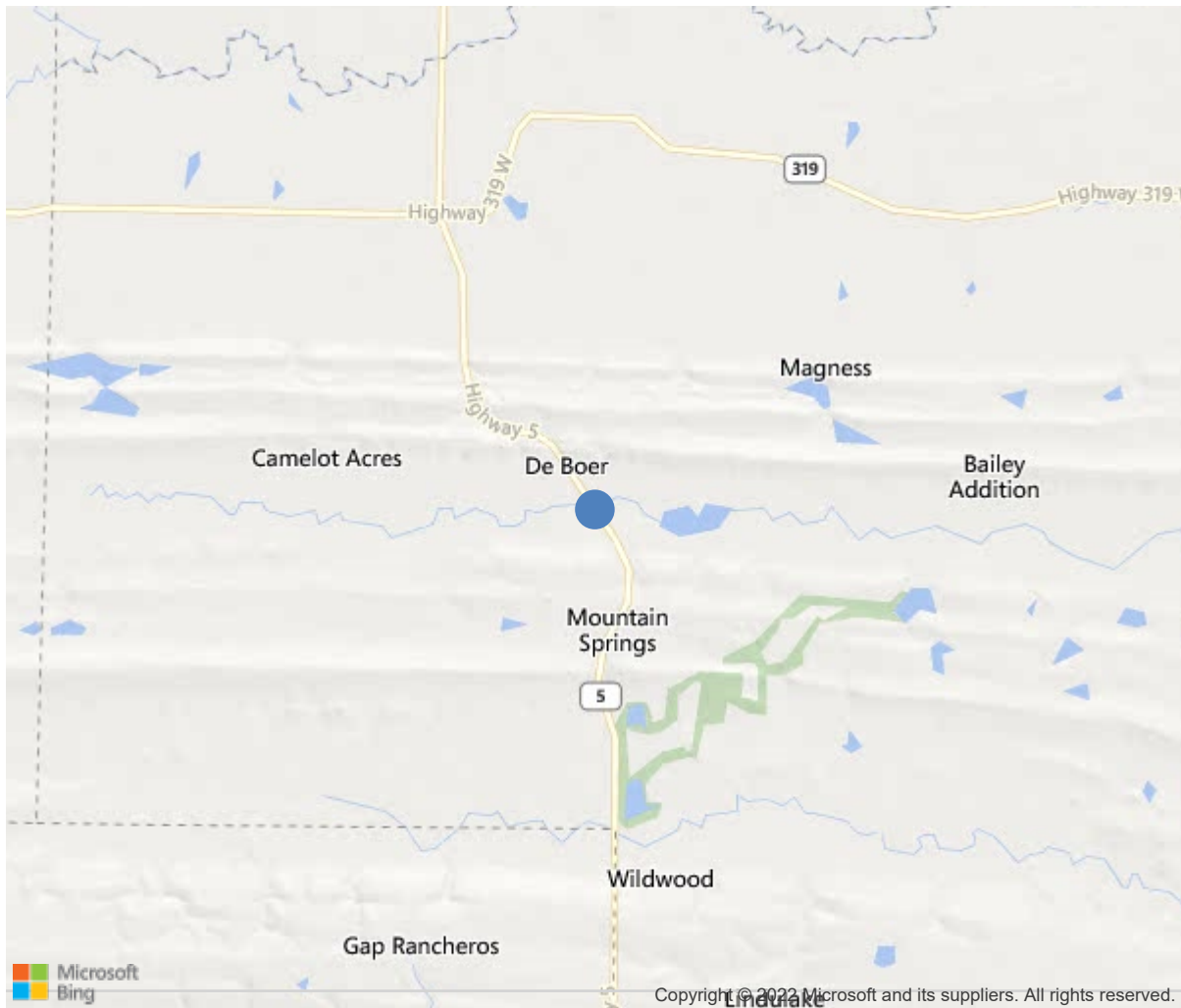
Route:5 Section:12 Log:6.389

Arnold Road ID:43x5x12xA, Arnold Log mile:6.382

District 06, Lonoke County

Owner: 1-State Highway Agency

4.0 MI N OF JCT SH 5 & 89



35.03452, -92.07250

Inspection Direction : S to N





Bridge #05239(Routine)

SH 5 Log 6.39 over MAGNESS CREEK

Location: 4.0 MI N OF JCT SH 5 & 89

Team Lead: Keith Harris Inspection Date: October 12, 2021

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	05239
(5) Inventory Route	5
(2) Highway Agency District	06
(3) County Code	85-Lonoke County, Arkansas
(4) Place Code	0
(6) Features Intersected	MAGNESS CREEK
(7) Facility Carried	SH 5 Log 6.39
(9) Location	4.0 MI N OF JCT SH 5 & 89
(11) Mile Point	6.389 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000005120
(16) Latitude	35.03452
(17) Longitude	-92.0725
(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 placed
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1968
(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	17000
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	9 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	28 ft
(49) Structure Length	84 ft
(50) Curb or Sidewalk Width	
Left	1.8 ft
Right	1.8 ft
(51) Bridge Roadway Width Curb to Curb	34.1 ft
(52) Deck Width Out to Out	38 ft
(32) Approach Roadway Width (W/Shoulders)	40 ft
(33) Bridge Median	0-No median
(34) Skew	0 Deg
(35) Structure Flared	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 water
(111) Pier Protection	1-Navigation protection not requ
(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 Arterial
(100) Defense Highway	0-The inventory route is not a S
(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 part of
(20) Toll	3-On free road. The structure is toll-
(21) Maintain	1-State Highway Agency
(22) Owner	1-State Highway Agency
(37) Historical Significance	5-Bridge is not eligible for the NRHP
CONDITION	
(58) Deck	6
(59) Superstructure	6
(60) Substructure	7
(61) Channel & Channel Protection	6
(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	3
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	6
(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 cur
(36B) Transitions	0-Inspected feature does not meet cur
(36C) Approach Guardrail	0-Inspected feature does not meet cur
(36D) Approach Guardrail Ends	0-Inspected feature does not meet cur
(113) Scour Critical Bridges	8-Bridge foundations determined to be
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	20716
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			10/2021
(91) Frequency			24 Months
(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.			

**Team Lead:** Keith Harris, **Inspection Date:** October 12, 2021

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	3052	1542	1506	4	0
1080	Delamination/Spall/Patched Area	SF	4	0	0	4	0
1120	Efflorescence/Rust Staining	SF	38	0	38	0	0
1130	Cracking (RC and Other)	SF	268	0	268	0	0
1190	Abrasion/Wear (PSC/RC)	SF	1200	0	1200	0	0
(38) Deck all spans cracks have been sealed by state forces. Soffit all spans cracks and delams have been sealed and patched, light efflorescence and rust stains are leaching back through patched areas. Deck span 2 & 3 at bent 3 left side has spall and delam. Both lanes have light abrasion							
205	Reinforced Concrete Column	EA	4	0	4	0	0
1190	Abrasion/Wear (PSC/RC)	EA	4	0	4	0	0
(205) All four columns have surface abrasion at the bottom three feet.							
215	Reinforced Concrete Abutment	LF	78	75	3	0	0
1130	Cracking (RC and Other)	LF	3	0	3	0	0
234	Reinforced Concrete Pier Cap	LF	68	64	4	0	0
1090	Exposed Rebar	LF	4	0	4	0	0
(234) Bents 2&3 cap exposed rebar on bottom of both ends.							
301	Pourable Joint Seal	LF	68	0	0	8	60
2350	Debris Impaction	LF	68	0	0	8	60
(301) Some of the seal is in place at bent 2, at bent 3 it is all missing with debris impaction.							
330	Metal Bridge Railing	LF	168	168	0	0	0
(330) Double tubular aluminum rail on both bridge rail.							





Elevation



Approach





Deck overview



Span 3 efflorescence





Span 3 abrasion



Span 2 under view





Spalls on the right side of spans 2&3 at bent 3.



## Maintenance Needs

**Date Reported:** 10/08/2019  
**Priority:** C - Important  
**Type of Work:** None  
**Status:** Repair Documented  
**Component:**

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## Deficiency Description

Bent 3: drift and debris build up around column 1

## Remarks

Assigned Pulaski 1 06601 12/4/19  
Drift has been removed

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Bent 3: drift and debris build up around column 1



**Bridge #05239**(Routine)

**SH 5 Log 6.39 over MAGNESS CREEK**

**Location: 4.0 MI N OF JCT SH 5 & 89**

**Team Lead:** Keith Harris **Inspection Date:** October 12, 2021

**Inspection Comments**

Job 1347, drawing 15880

Logged Northbound.

Channel profile added 10/2021