



Latitude:33.42895, Longitude:-93.90055

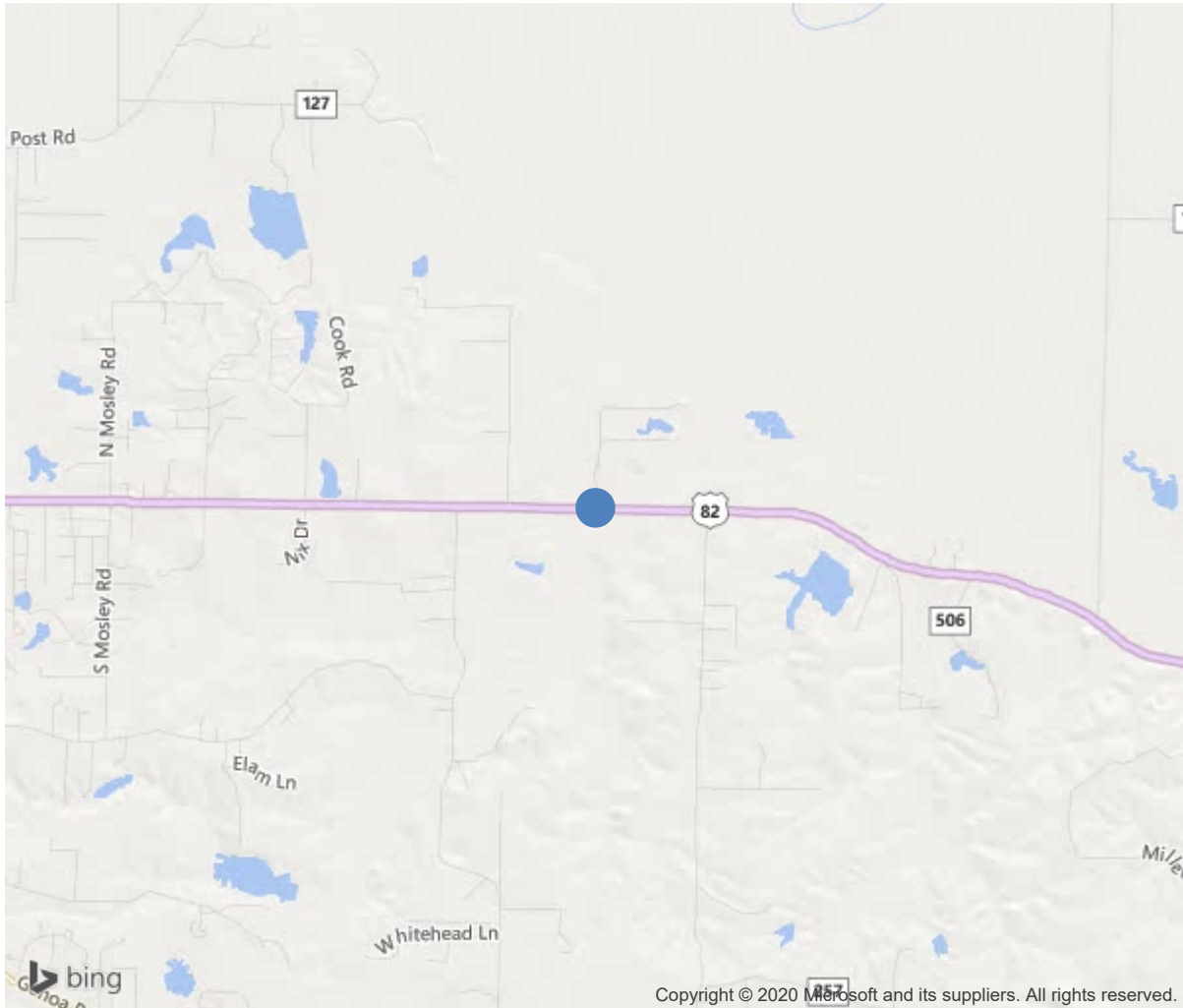
Route:82 Section:01 Log:7.37

Arnold Road ID:46x82x1xA, Arnold Log mile:7.348

District 03, Miller County

Owner: 1-State Highway Agency

4.5 MI E JCT OF SH 237



33.42895, -93.90055



Bridge #02549(Routine)

US 82 SEC.01 -7.37 over MILL CREEK

Location: 4.5 MI E JCT OF SH 237

Team Lead: Charlie Rogers Inspection Date: August 21, 2019

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	02549
(5) Inventory Route	82
(2) Highway Agency District	03
(3) County Code	91-Miller County, Arkansas
(4) Place Code	0
(6) Features Intersected	MILL CREEK
(7) Facility Carried	US 82 SEC.01 -7.37
(9) Location	4.5 MI E JCT OF SH 237
(11) Mile Point	7.37 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	00
(16) Latitude	33.42895
(17) Longitude	-93.90055
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	32
Material	3-Steel
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	4
(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	1948
(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	3800
(30) Year of ADT	2014
(109) Truck ADT	23 %
(19) Bypass, Detour Length	36 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	123 ft
(50) Curb or Sidewalk Width	
Left	2 ft
Right	2 ft
(51) Bridge Roadway Width Curb to Curb	25.9 ft
(52) Deck Width Out to Out	31.7 ft
(32) Approach Roadway Width (W/Shoulders)	38.1 ft
(33) Bridge Median	0-No median
(34) Skew	30 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	29.2 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	1
(26) Functional Class	2-Rural Principal Arterial - Oth
(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	1-The inventory route is part of the
(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	4
(60) Substructure	7
(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	52
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	4
Rating	31
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	5
(68) Deck Geometry	3
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	6
(72) Approach Roadway Alignment	8
(36) Traffic Safety Features	1111
A) Bridge Railings	1-Inspected feature meets currently a
B) Transitions	1-Inspected feature meets currently a
C) Approach Guardrail	1-Inspected feature meets currently a
D) Approach Guardrail Ends	1-Inspected feature meets currently a
(113) Scour Critical Bridges	7-Countermeasures have been installed
PROPOSED IMPROVEMENTS	
(75) Type of Work	Replacement of bridge or other
(76) Length of Structure Improvement	151 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 400
(96) Total Project Cost	\$ 1021
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	4772
(115) Year of Future ADT	2028
INSPECTIONS	
(90) Inspection Date	
(91) Frequency	24 Months
(92) Critical Feature Inspection	Done Freq. (Mon) Date
A: Fracture Critical Detail	No 24
B: Underwater Inspection	No 0
C: Other Special Inspection	No 0



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	3899	3092	807	0	0
1080	Delamination/Spall/Patched Area	SF	4	0	4	0	0
1090	Exposed Rebar	SF	3	0	3	0	0
1130	Cracking (RC and Other)	SF	800	0	800	0	0
(12)	Rebar exposed RT side span 3.. cracks sealed in past....						
107	Steel Open Girder/Beam	LF	600	540	60	0	0
1000	Corrosion	LF	60	0	60	0	0
515	Steel Protective Coating	SF	4206	3206	1000	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	SF	1000	0	1000	0	0
(107)	Beam ends have rust and some section loss in various locations...						
215	Reinforced Concrete Abutment	LF	92	92	0	0	0
227	Reinforced Concrete Pile	EA	15	15	0	0	0
234	Reinforced Concrete Pier Cap	LF	153	153	0	0	0
303	Assembly Joint with Seal	LF	170	170	0	0	0
311	Movable Bearing	EA	20	0	0	20	0
1000	Corrosion	EA	20	0	0	20	0
(311)	Span 1 beam 2 bearing shows some vertical movement 1/8" under heavy truck traffic. Sole plate are showing signs of wearing on rocker bearings typical all.. some bearing have heavy pack rust and anchor bolt are rusted in two.....						
313	Fixed Bearing	EA	20	0	0	20	0
1000	Corrosion	EA	20	0	0	20	0
(313)	Span 1 beam 2 bearing shows some vertical movement 1/8" under heavy truck traffic. Sole plate are showing signs of wearing on rocker bearings typical all.. some bearing have heavy pack rust and anchor bolt are rusted into.....						
331	Reinforced Concrete Bridge Railing	LF	245	245	0	0	0





Typical of all bearings







Deck



Underside of deck typical all spans



Typical of the beam ends



**Bridge #02549**(Routine)  
**US 82 SEC.01 -7.37 over MILL CREEK**  
**Location: 4.5 MI E JCT OF SH 237**

**Team Lead:** Charlie Rogers **Inspection Date:** August 21, 2019

## **Maintenance Needs**





**Bridge #02549**(Routine)

**US 82 SEC.01 -7.37 over MILL CREEK**

**Location: 4.5 MI E JCT OF SH 237**

**Team Lead:** Charlie Rogers **Inspection Date:** August 21, 2019

## Inspection Comments

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## Deck Notes

08/03/2017 AL,SS,CH,DEF PHOTOS TAKEN. Span 1 beam 2 bearing shows some vertical movement 1/8" under heavy truck traffic. Sole plate are showing signs of wearing on rocker bearings typical all.. some bearing have heavy pack rust and anchor bolt are rusted into.. Left side top wing wall cracked and spalled beginning bridge.....8/21/2019...AL, SS, Deck, Def. Photos taken. Log jam between spans 3 and 4, RT side of bridge, Causing channel to back up...

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## Superstructure Notes

8/21/2019...Beam ends have some section loss in various locations....Dropped superstructure to a 4 due to beam ends showing some rusting and section loss in various locations, advanced section loss to fixed and movable bearings...

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## Substructure Notes

Slope Protection: Rip Rap

Breastwall: Caps