



Latitude:34.21120, Longitude:-94.05081

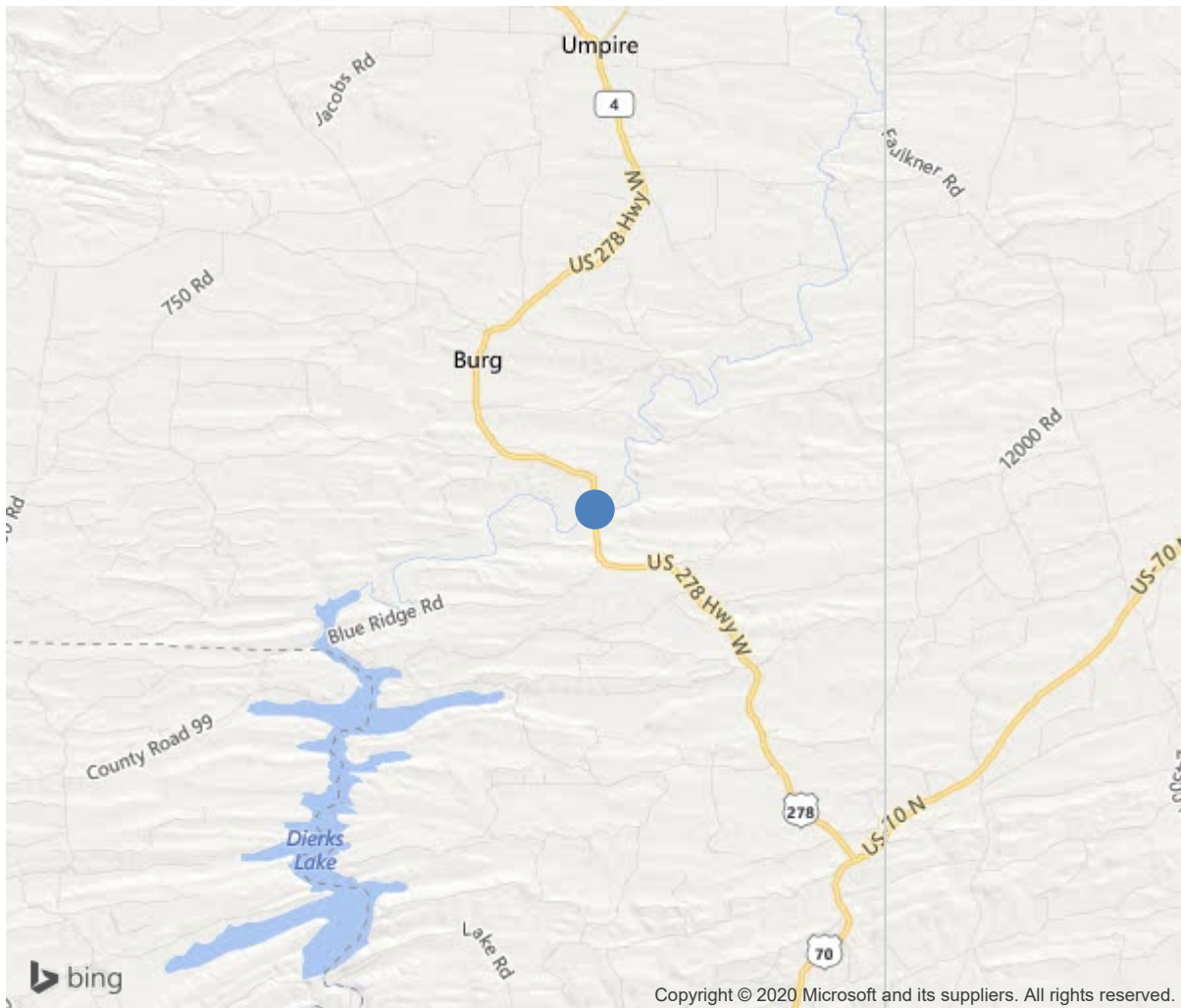
Route:278 Section:02 Log:19.09

Arnold Road ID:31x278x2xA, Arnold Log mile:19.114

District 03, Howard County

Owner: 1-State Highway Agency

5.50 MI N JCT OF US 70



34.21120, -94.05081



Bridge #03602(Routine)

US 278-02-19.09 over SALINE RIVER

Location: 5.50 MI N JCT OF US 70

Team Lead: Charlie Rogers Inspection Date: December 04, 2019

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03602
(5) Inventory Route	278
(2) Highway Agency District	03
(3) County Code	61-Howard County, Arkansas
(4) Place Code	0
(6) Features Intersected	SALINE RIVER
(7) Facility Carried	US 278-02-19.09
(9) Location	5.50 MI N JCT OF US 70
(11) Mile Point	19.09 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.211201
(17) Longitude	-94.050812
(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	7
(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	1963
(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	670
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	33 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	60 ft
(49) Structure Length	362 ft
(50) Curb or Sidewalk Width	
Left	1 ft
Right	1 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	28.5 ft
(32) Approach Roadway Width (W/Shoulders)	21 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	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 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	7-Rural Major Collector
(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	4
(59) Superstructure	5
(60) Substructure	6
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2-M 13.5 / H 15
(63) Operating Rating Method	2
(64) Operating Rating	
Type	2-Allowable Stress(AS)
Rating	58
(65) Inventory Rating Method	2-Allowable Stress(AS)
(66) Inventory Rating	
Type	7
Rating	35
(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	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	6
(72) Approach Roadway Alignment	7
(36) Traffic Safety Features	1000
A) Bridge Railings	1-Inspected feature meets currently a
B) Transitions	0-Inspected feature does not meet cur
C) Approach Guardrail	0-Inspected feature does not meet cur
D) 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	Bridge rehabilitation because
(76) Length of Structure Improvement	362 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 463
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	965
(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	Yes 0 201812

**Team Lead:** Charlie Rogers, **Inspection Date:** December 04, 2019

[illegible]



**Bridge #03602(Routine)**  
**US 278-02-19.09 over SALINE RIVER**  
**Location: 5.50 MI N JCT OF US 70**

**Team Lead:** Charlie Rogers, **Inspection Date:** December 04, 2019

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
	Paint loss to rail with some rust showing, rail in good condition.						



Under photo



Under photo





SS



Bent #5 scour around columns





Deck photo



Deck photo





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## **Maintenance Needs**



Bridge #03602(Routine)  
US 278-02-19.09 over SALINE RIVER  
Location: 5.50 MI N JCT OF US 70

Team Lead: Charlie Rogers Inspection Date: December 04, 2019

## Inspection Comments

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### Deck Notes

Railing: paint loss to rail with some rust showing, rail in good condition.

Wearing Surface: 74 % patch area on top of deck

Underside of Deck: spalls with rebar exposed in some areas

12/20/2016 special on deck only this inspection. Added 60 SQFT patch area to elements....12/4/2017 AL,CH,SS,DECK,DEF.PHOTOS TAKEN MOSTLY OLD PATCHES HAVE BEEN REPLACED or REWORKED PER THIS INSPECTION.....12-5-2018 AL,SS,Deck Photos taken during this Special Inspection of the Deck No changes at this time...12-4-2019 AL,SS,DECK AND UNDER DECK PHOTOS TAKEN ALSO DEF PHOTO TAKEN PER THIS INSPECTION

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### Superstructure Notes

Bearings: some bearings have paint loss and some rusting 12/04/2017 SPAN 2 BEAM 1 AT BENT 3 sect. loss to bottom of beam out side area....SPAN 1 BEAM 1 AT BENT 2 REPAIR WORK DONE 3 LINEAR FT...

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### Substructure Notes

Columns: moderate scaling near bottom of columns at bt 7 and bent 6

Pier Cap: spalls and rebar exposed

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### Load Rating

Model corrected 07292014.