



Latitude:33.60969, Longitude:-91.99057

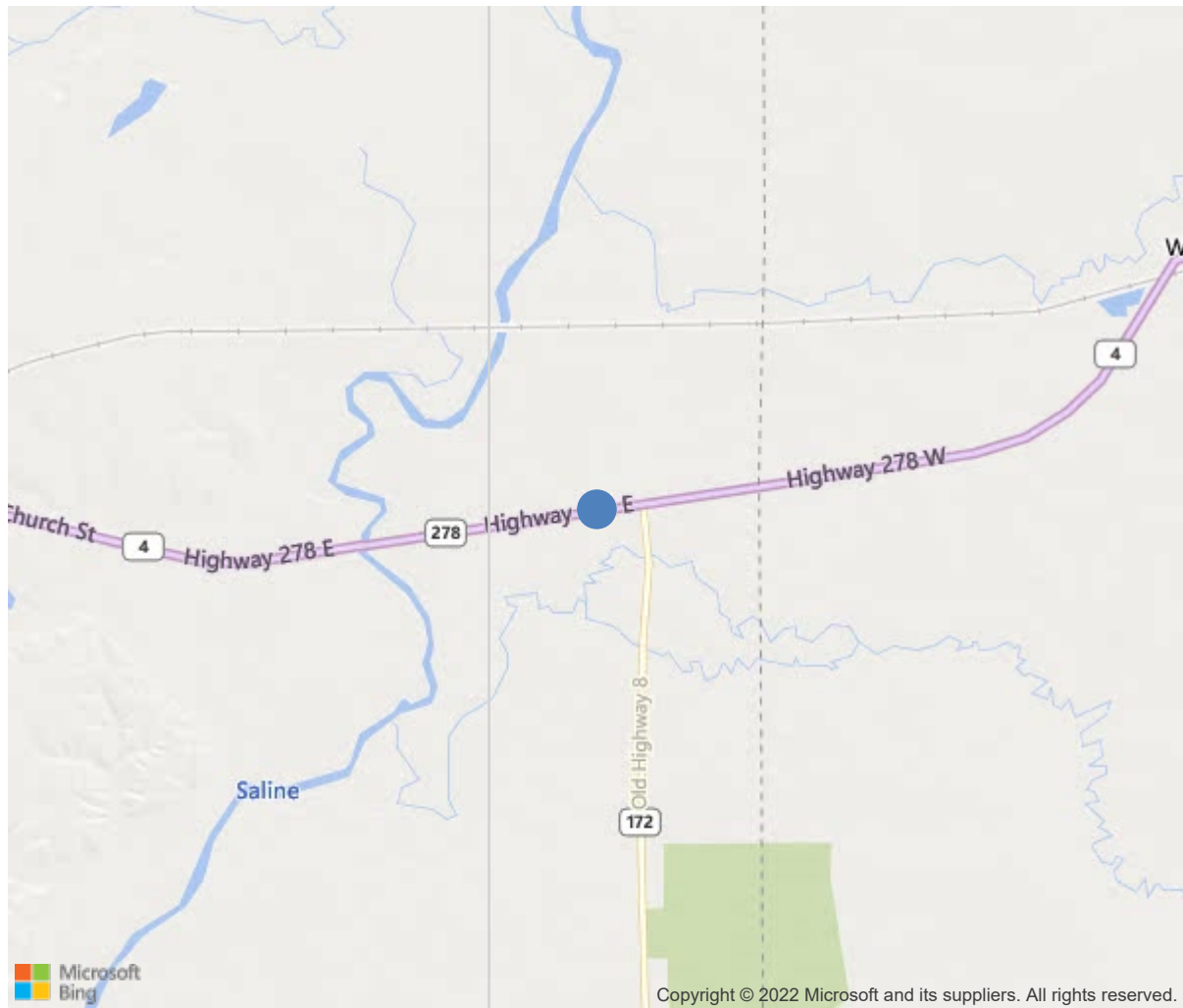
Route:278 Section:13 Log:5.78

Arnold Road ID:6x278x13xA, Arnold Log mile:5.917

District 07, Bradley County

Owner: 1-State Highway Agency

4.3 m E of Warren



33.60969, -91.99057



Bridge #06815(Routine)

US 278 S13 LM 5.78 over FLAT BRANCH

Location: 4.3 m E of Warren

Team Lead: Rickie Bratton Inspection Date: November 22, 2021

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	06815
(5) Inventory Route	278
(2) Highway Agency District	07
(3) County Code	11-Bradley County, Arkansas
(4) Place Code	0
(6) Features Intersected	FLAT BRANCH
(7) Facility Carried	US 278 S13 LM 5.78
(9) Location	4.3 m E of Warren
(11) Mile Point	5.78 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000278030
(16) Latitude	33.6096873799083
(17) Longitude	-91.9905706899802
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	42
Material	4-Steel continuous
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	5
(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	9-Other
AGE AND SERVICE	
(27) Year Built	2003
(106) Year Reconstructed	0
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	5
Under	0
(29) Average Daily Traffic	5300
(30) Year of ADT	2014
(109) Truck ADT	5 %
(19) Bypass, Detour Length	26 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	55 ft
(49) Structure Length	255 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	75.1 ft
(52) Deck Width Out to Out	78.2 ft
(32) Approach Roadway Width (W/Shoulders)	75.1 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	76.1 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	0 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	6-Rural Minor 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	7
(59) Superstructure	7
(60) Substructure	7
(61) Channel & Channel Protection	7
(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	5
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	7
(68) Deck Geometry	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1-Inspected feature meets currently a
(36B) Transitions	1-Inspected feature meets currently a
(36C) Approach Guardrail	1-Inspected feature meets currently a
(36D) Approach Guardrail Ends	1-Inspected feature meets currently a
(113) Scour Critical Bridges	5-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	6132
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			11/2021
(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.			



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Team Lead: Rickie Bratton, Inspection Date: November 22, 2021

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	19945	18590	1355	0	0
1130	Cracking (RC and Other)	SF	1155	0	1155	0	0
1190	Abrasion/Wear (PSC/RC)	SF	200	0	200	0	0
(12)	Numerous cracks all spans. Longitudinal cracking throughout , minor abrasions, exposed aggregates.						
107	Steel Open Girder/Beam	LF	2530	2530	0	0	0
215	Reinforced Concrete Abutment	LF	194	194	0	0	0
225	Steel Pile	EA	40	40	0	0	0
515	Steel Protective Coating	SF	922	922	0	0	0
234	Reinforced Concrete Pier Cap	LF	304	304	0	0	0
302	Compression Joint Seal	LF	156	116	40	0	0
2310	Leakage	LF	40	0	40	0	0
(302)	Losing bond and leaking. Cracked areas of deck edge along joints. 11/19/2019 JPR -- These notes refer to the sawed joints that are also poured, these are not expansion joints but are controlled joints and they are not considered joints in the elements.						
310	Elastomeric Bearing	EA	60	60	0	0	0
331	Reinforced Concrete Bridge Railing	LF	510	510	0	0	0



Deck overview.



Span 3 soffit overview.



Approach roadway Eastbound.



Span 4 looking ahead @ deck.



Roadway



Abutment 2 joint material.



Underside span 2



Vegetation right side



Span 1 looking ahead @ Lt. Main lanes looking ahead @ deck.



Bent 4 in casement beginning to rust



Profile



Bent 6 joint seal has lost adhesion and is leaking.



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Location: 4.3 m E of Warren

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Maintenance Needs



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Location: 4.3 m E of Warren

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Inspection Comments

11/19/2019 JPR -- This structure is logged from West to East.

Deck Notes

Numerous cracks all spans. Longitudinal cracking throughout , minor abrasions, exposed aggregates. some deck cracking along joint seals. Seals leaking and losing bond.

Substructure Notes

11/19/2019 JPR -- The corrugated steel pipe that was used as an encasement are beginning to rust, especially Bents 3 & 4.