



Bridge #06978(Routine, Underwater type 2)
Us-79/Sec-15/L4.29 over Walnut Lake / Big Creek

Location: 3.5 Miles West Of Sh 238

Team Lead: Myron Futrell **Inspection Date:** November 08, 2021



Latitude:34.77901, Longitude:-91.04701

Route:79 Section:15 Log:4.29

Arnold Road ID:39x79x15xA, Arnold Log mile:4.289

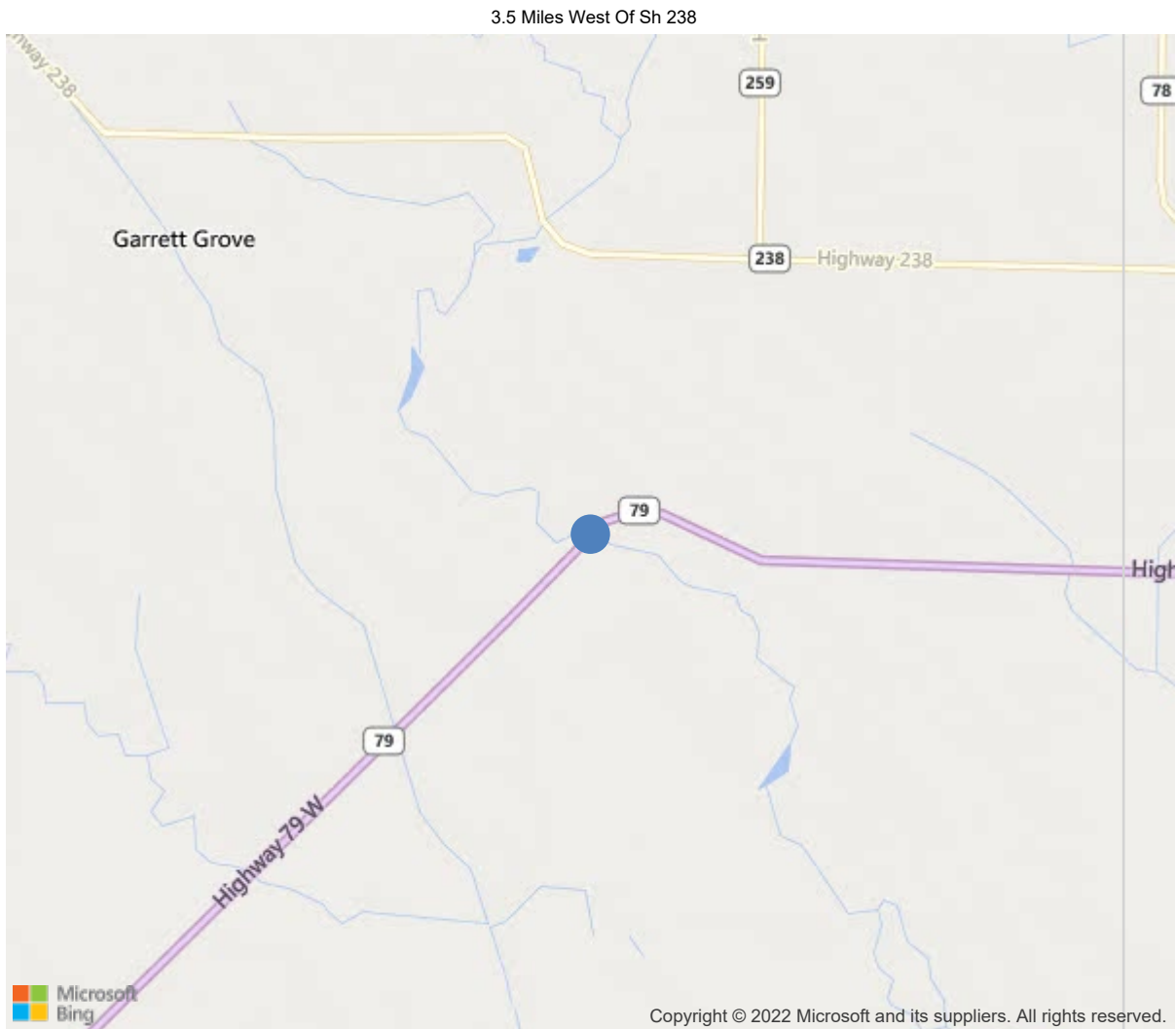
District 01, Lee County

Owner: 1-State Highway Agency



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34.77901, -91.04701

Inspection Direction : W to E



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	06978
(5) Inventory Route	79
(2) Highway Agency District	01
(3) County Code	77-Lee County, Arkansas
(4) Place Code	0
(6) Features Intersected	Walnut Lake / Big Creek
(7) Facility Carried	Us-79/Sec-15/L4.29
(9) Location	3.5 Miles West Of Sh 238
(11) Mile Point	4.29 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000079150
(16) Latitude	34.77901
(17) Longitude	-91.04701
(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	2-Integral Concrete (separate non-modified
Type of Membrane	0-None
Type of Deck Protection	1-Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	2005
(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	640
(30) Year of ADT	2018
(109) Truck ADT	27 %
(19) Bypass, Detour Length	41 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	67 ft
(49) Structure Length	307.2 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	40 ft
(52) Deck Width Out to Out	43.2 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	40 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	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	7
(59) Superstructure	7
(60) Substructure	8
(61) Channel & Channel Protection	8
(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	8
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	7
(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	700
(115) Year of Future ADT	2038

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.			

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	13164	8742	4115	307	0
1120	Efflorescence/Rust Staining	SF	307	0	0	307	0
1130	Cracking (RC and Other)	SF	4112	0	4112	0	0
1190	Abrasion/Wear (PSC/RC)	SF	3	0	3	0	0
(12)							
Deck has open transverse and longitudinal cracks spaced three to four feet apart. Soffit overhang has transverse cracks with light to moderate efflorescence spaced four to five feet apart. Span #3 left side shoulder near bridge rail four feet back from bent #4 the deck has a one foot wide by three foot long area of light scaling.							
107	Steel Open Girder/Beam	LF	1525	1515	10	0	0
1000	Corrosion	LF	10	0	10	0	0
515	Steel Protective Coating	SF	12532	0	12532	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	SF	12532	0	12532	0	0
(107)							
Ends of girders at abutments have minor scaling on bottom flange. Span #1 girder #1 has thin delamination on bottom flange near bent #2							
(107-515)							
Steel protective coating has grainy texture.							
215	Reinforced Concrete Abutment	LF	124	124	0	0	0
227	Reinforced Concrete Pile	EA	24	0	23	1	0
1080	Delamination/Spall/Patched Area	EA	1	0	0	1	0
1190	Abrasion/Wear (PSC/RC)	EA	23	0	23	0	0
(227)							
Bent #2 pile #4 has a two foot spall with no rebar exposed on right side near top. All piles have light abrasion near waterline with no loose aggregate .							
234	Reinforced Concrete Pier Cap	LF	168	168	0	0	0
300	Strip Seal Expansion Joint	LF	86	54	4	28	0
2320	Seal Adhesion	LF	28	0	0	28	0
2370	Metal Deterioration or Damage	LF	4	0	4	0	0
(300)							
Joint armor on shoulders is starting to have corrosion with laminations little to no section loss at this time. Abutment #1 joint seal has 16' of sagging due to lost adhesion. Abutment #2 joint seal has 12' of sagging due to lost adhesion.							

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
310	Elastomeric Bearing	EA	30	21	0	9	0
1000 (310)	Corrosion	EA	9	0	0	9	0
Abutment #1 bearings have corrosion with laminations. Abutment #2 girders #2,3,4,5 have corrosion on sole plates and masonry plates with laminations.							
321	Reinforced Concrete Approach Slab	SF	1752	1314	438	0	0
1130 (321)	Cracking (RC and Other)	SF	438	0	438	0	0
Approach slabs have longitudinal and transverse cracks.							
331	Reinforced Concrete Bridge Railing	LF	614	614	0	0	0
1130 (331)	Cracking (RC and Other)	LF	153	153	0	0	0
Bridge rail has vertical hairline cracks spaced three to four feet apart.							



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Maintenance Needs

Date Reported: 11/04/2013

Priority: D- Routine

Type of Work: N/A

Status: Assigned

Component:

Deficiency Description

Vegetation is growing under and beside bridge.

Remarks



Typical vegetation



Trees and vegetation growing beside and under bridge



Vegetation growing beside and under bridge



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Date Reported: 11/04/2015
Priority: D- Routine
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Deck has open transverse and longitudinal cracks spaced three to four feet apart.

Remarks



Typical deck crack.



Typical deck



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Typical deck cracks.



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Date Reported: 11/16/2021
Priority: D- Routine
Type of Work: Repair
Status: Open
Component: 321 - Reinforced Concrete Approach Slab

Deficiency Description

Approach slabs have unsealed transverse and longitudinal cracks.

Remarks



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Date Reported: 11/16/2021

Priority: D- Routine

Type of Work: Clean

Status: Open

Component: Deck

Deficiency Description

Gutters have dirt and debris.

Remarks



Dirt and debris in gutters

Date Reported: 11/16/2021
Priority: C - Important
Type of Work: Clean
Status: Open
Component: 310 - Elastomeric Bearing

Deficiency Description

Abutment #1 bearings have corrosion with laminations on sole plates and masonry plates.
Abutment #2 girders #2,3,4,5 have corrosion on sole plates and masonry plates with laminations.

Remarks



Typical corrosion with laminations on abutment #1 bearings



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Inspection Comments

Dirt and debris in gutters