



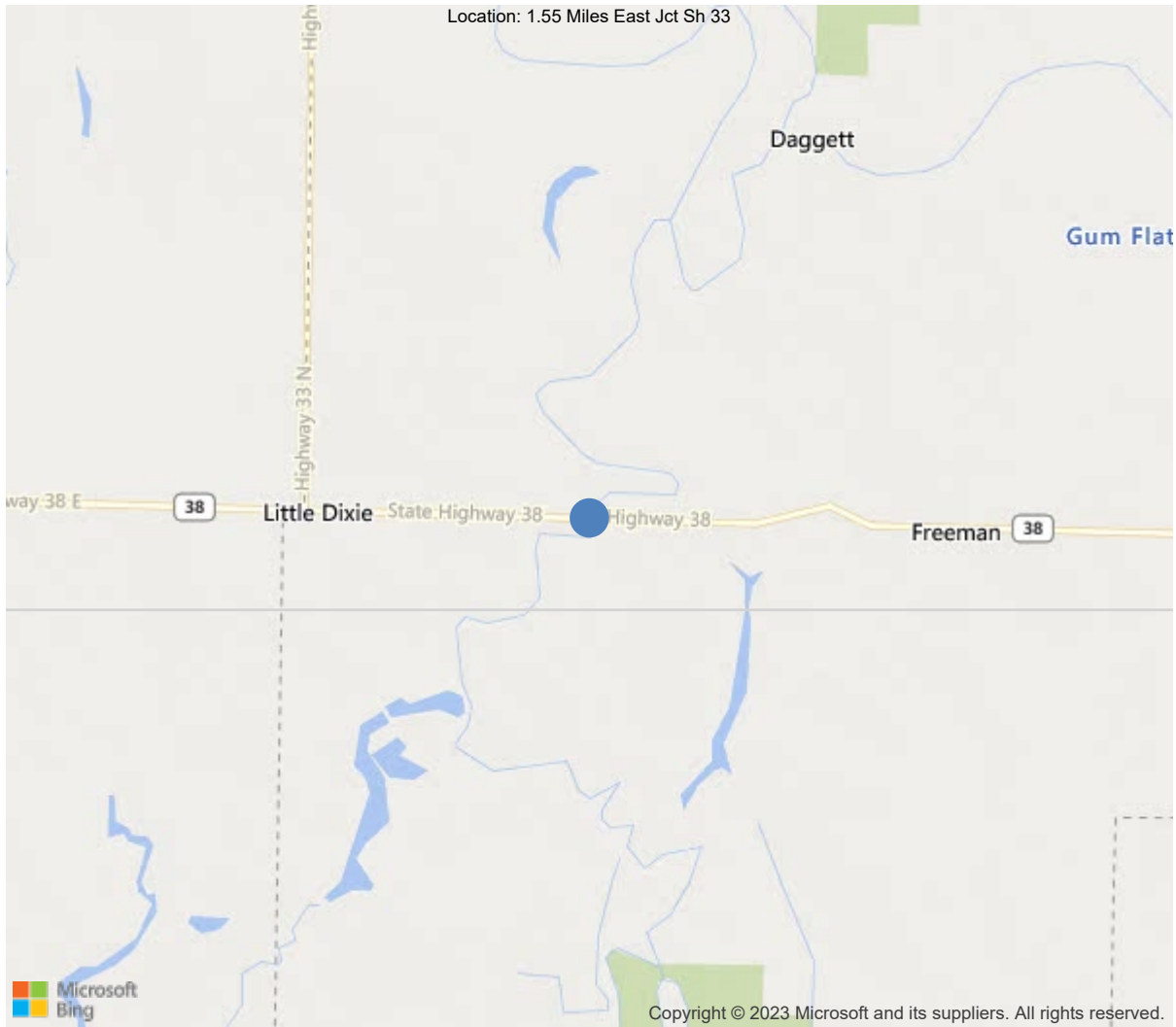
Latitude:35.00666, Longitude:-91.33931

Route:38 Section:02 Log:1.55

Arnold Road ID:74x38x2xA, Arnold Log mile:1.55

District 01, 147 - Woodruff County

Owner: 1 - State Highway Agency



35.00666, -91.33931



Asset #06293(Routine, Underwater type 2)

Sh-38/Sec-2/L-1.55 over Cache River

Location: 1.55 Miles East Jct Sh 33

Team Lead: Drew Melton, Inspection Date: 12/20/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	06293
(5) Inventory Route	1
(2) Highway Agency District	01 - District 01
(3) County Code	147 - Woodruff County
(4) Place Code	0
(6) Features Intersected	Cache River
(7) Facility Carried	Sh-38/Sec-2/L-1.55
(9) Location	1.55 Miles East Jct Sh 33
(11) Mile Point	1.55 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000038020
(16) Latitude	35.00666
(17) Longitude	-91.33931
(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 pl
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1989
(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	820
(30) Year of ADT	2019
(109) Truck ADT	7 %
(19) Bypass, Detour Length	30 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	75 ft
(49) Structure Length	377 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	36 ft
(52) Deck Width Out to Out	38.9 ft
(32) Approach Roadway Width (W/Shoulders)	36 ft
(33) Bridge Median	0 - No median
(34) Skew	0 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	36 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 w
(111) Pier Protection	1 - Navigation protection not
(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
(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 par
(20) Toll	3 - On free road. The structu
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	7
(59) Superstructure	7
(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	
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	7
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	9
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	1 - Inspected feature meets current
(36C) Approach Guardrail	1 - Inspected feature meets current
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	5 - Bridge foundations determined t
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	855
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	12/20/2022		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
* 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.			



Asset #06293(Routine, Underwater type 2)

District: 01, County: 147 - Woodruff County

Team Lead: Drew Melton, Inspection Date: 12/20/2022

58 - Deck (7)

Deck is cast in place concrete. Deck has some open cracks.

59 - Superstructure (7)

12/20/2022 lowered superstructure from 8 to 7 due to scaily rust on girder ends.
Superstructure is A588 steel girder. Girder have some scaily rust on girder ends.

60 - Substructure (7)

12/12/2018 lowered substructure from 8 to 7 due to cracks with efflorescence in back walls.
Substructure is all concrete. Caps and piles are in good condition with no problems with abutments having some cracks with efflorescence.

61 - Channel/Channel Protection (6)

Channel banks has some slumping, and channel has trees and vegetation hanging into and some in channel.
Abutment #1 left side channel is eroded within 30' of bridge.

A-46 - Asset Files

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General Observation (False)

Abutment #2 right approach rail has 10' of minor collision damage.
Abutment #2 approach gutter right side has animal hole underneath.
Abutment #1 left side channel eroded within 30' of bridge.



Asset #06293(Routine, Underwater type 2)

Sh-38/Sec-2/L-1.55 over Cache River

Location: 1.55 Miles East Jct Sh 33

Team Lead: Drew Melton, Inspection Date: 12/20/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	14565	10807	3758	0	0
1120	Efflorescence/Rust Staining	SF	168	0	168	0	0
1130	Cracking (RC and Other)	SF	3590	0	3590	0	0
(12) All spans have transverse and longitudinal cracks. Soffit-under surface overhangs have transverse cracks some with light efflorescence.							
107	Steel Open Girder/Beam	LF	2250	2166	84	0	0
1000	Corrosion	LF	84	0	84	0	0
515	Steel Protective Coating	SF	16532	16462	70	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	70	0	70	0	0
(107) Girder ends have one foot of minor scaling on bottom flange at bents.							
215	Reinforced Concrete Abutment	LF	116	106	10	0	0
1120	Efflorescence/Rust Staining	LF	10	0	10	0	0
(215) Abutment back walls have hair line vertical cracks some with light efflorescence.							
227	Reinforced Concrete Pile	EA	32	32	0	0	0
234	Reinforced Concrete Pier Cap	LF	224	224	0	0	0
302	Compression Joint Seal	LF	312	273	0	0	39
2310	Leakage	LF	39	0	0	0	39
(302) Bent #3 joint seal has fallen out.							
311	Movable Bearing	EA	35	0	35	0	0
1000	Corrosion	EA	35	0	35	0	0
515	Steel Protective Coating	SF	70	0	0	70	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	EA	70	0	0	70	0
(311) Movable bearings have some scaling rust.							
313	Fixed Bearing	EA	35	0	35	0	0
1000	Corrosion	EA	35	0	35	0	0
515	Steel Protective Coating	SF	70	0	0	70	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	EA	70	0	0	70	0
(313) Fixed bearings have some scaling rust.							
331	Reinforced Concrete Bridge Railing	LF	754	565	189	0	0
1130	Cracking (RC and Other)	LF	189	0	189	0	0

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
	(331) Rails have vertical hair line cracks spaced four feet apart.						



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Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	14565	10807	3758	0	0
1120	Efflorescence/Rust Staining	SF	168	0	168	0	0
1130	Cracking (RC and Other)	SF	3590	0	3590	0	0
(12) All spans have transverse and longitudinal cracks. Soffit-under surface overhangs have transverse cracks some with light efflorescence.							

58 - Deck (7)

Comment: Deck is cast in place concrete. Deck has some open cracks.



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Sh-38/Sec-2/L-1.55 over Cache River

Location: 1.55 Miles East Jct Sh 33

Team Lead: Drew Melton, Inspection Date: 12/20/2022

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	2250	2166	84	0	0
1000	Corrosion	LF	84	0	84	0	0
515	Steel Protective Coating	SF	16532	16462	70	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	70	0	70	0	0
(107) Girder ends have one foot of minor scaling on bottom flange at bents.							

59 - Superstructure (7)

Comment: 12/20/2022 lowered superstructure from 8 to 7 due to scaily rust on girder ends.
Superstructure is A588 steel girder. Girder have some scaily rust on girder ends.



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Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	116	106	10	0	0
1120	Efflorescence/Rust Staining	LF	10	0	10	0	0
(215) Abutment back walls have hair line vertical cracks some with light efflorescence.							
227	Reinforced Concrete Pile	EA	32	32	0	0	0
234	Reinforced Concrete Pier Cap	LF	224	224	0	0	0

60 - Substructure (7)

Comment: 12/12/2018 lowered substructure from 8 to 7 due to cracks with efflorescence in back walls.

Substructure is all concrete. Caps and piles are in good condition with no problems with abutments having some cracks with efflorescence.

61 - Channel/Channel Protection (6)

Comment: Channel banks has some slumping, and channel has trees and vegetation hanging into and some in channel. Abutment #1 left side channel is eroded within 30' of bridge.



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Location: 1.55 Miles East Jct Sh 33

Team Lead: Drew Melton, Inspection Date: 12/20/2022

Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Side view-elevation



Side view-elevation



Top view-inventory



Channel left side



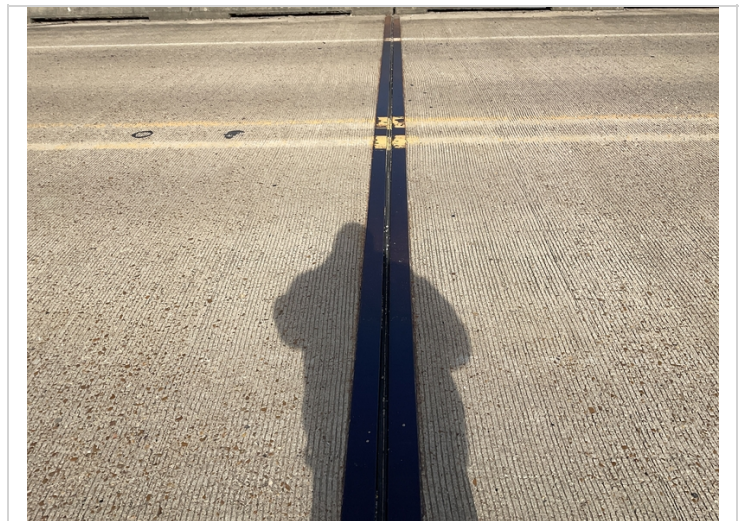
Channel right side



Abutment #1 left side channel eroded within 30' of bridge.



Abutment #2 right approach rail has minor collision damage.



Typical joint



Bent #3 joint seal has failed.



Left bridge rail



Right bridge rail



Typical bridge rail crack



Typical deck



Typical soffit-under surface



Typical soffit-under surface over hang



Typical deck crack



Typical deck crack



Typical movable bearing



Typical abutment bearing



Abutment #1



Abutment #2

Maintenance Needs

Date Reported: 12/11/2018
Priority: C - Important
Type of Work: Deck Repair
Status: Monitor
Component: Deck

Deficiency Description

All spans have transverse and longitudinal cracks.

Remarks



Typical transverse deck crack.



Typical longitudinal deck crack.

Date Reported: 12/20/2012
Priority: C - Important
Type of Work: Joint Repair
Status: Monitor
Component: Element

Deficiency Description

Bent #3 joint seal has fallen out.

Remarks



Bent #3 joint



Bent #3 joint seal sagging onto cap

Date Reported: 12/17/2020
Priority: D- Routine
Type of Work: Repair (General)
Status: Forward State
Component: Approach

Deficiency Description

Abutment #2 left and right approach gutters have small void underneath due to animal activity.

Remarks



Abutment #2 left approach gutter has small void underneath.

Date Reported: 12/17/2020
Priority: C - Important
Type of Work: Repair (General)
Status: Forward State
Component: Channel

Deficiency Description

Abutment #1 left side channel eroded within 30' of bridge.

Remarks



Abutment #1 left side channel eroded within 30' of bridge.

Date Reported: 12/20/2022
Priority: D- Routine
Type of Work: Repair (General)
Status: Open
Component: Element

Deficiency Description

Bearings have some scaily rust on them.

Remarks



Typical movable bearing



Typical abutment bearing



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Team Lead: Drew Melton, **Inspection Date:** 12/20/2022

Date Reported: 12/20/2022
Priority: D- Routine
Type of Work: Repair (General)
Status: Open
Component: Element

Deficiency Description

Girders have some scaily rust on bottom of bottom flanges at girder ends.

Remarks

Date Reported: 12/20/2022
Priority: D- Routine
Type of Work: Repair (General)
Status: Open
Component: Miscellaneous

Deficiency Description

Abutment #2 right approach rail has minor collision damage.

Remarks



Abutment #2 right approach rail has minor collision damage.



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Team Lead: Drew Melton, **Inspection Date:** 12/20/2022

Routine Maintenance

Check Box Maintenance Items

Data Field	Value
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	
A-56 - Joint Cleaning/Flushing Needed	
A-57-Beam End and Bearing Paint Needed	
A-58 - Cap Cleaning/Flushing Needed	
A-59 - Joint Repair Needed	
A-60 - Full Beam Painting Needed	
A-61 - Polymer Overlay Advised	
A-62 - Hydo and LMC Advised	



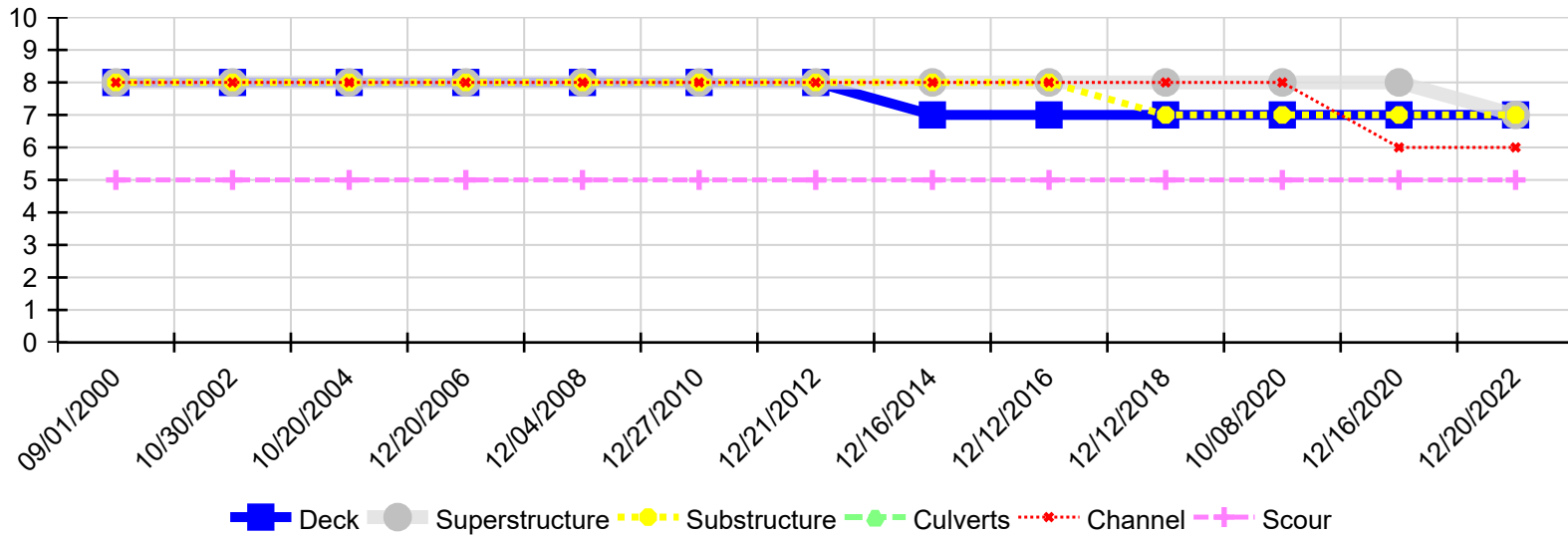
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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
12/20/2022	7	7	7	N	6	5
12/16/2020	7	8	7	N	6	5
10/08/2020	7	8	7	N	8	5
12/12/2018	7	8	7	N	8	5
12/12/2016	7	8	8	N	8	5
12/16/2014	7	8	8	N	8	5
12/21/2012	8	8	8	N	8	5
12/27/2010	8	8	8	N	8	5
12/04/2008	8	8	8	N	8	5
12/20/2006	8	8	8	N	8	5
10/20/2004	8	8	8	N	8	5
10/30/2002	8	8	8	N	8	5
09/01/2000	8	8	8	N	8	5