



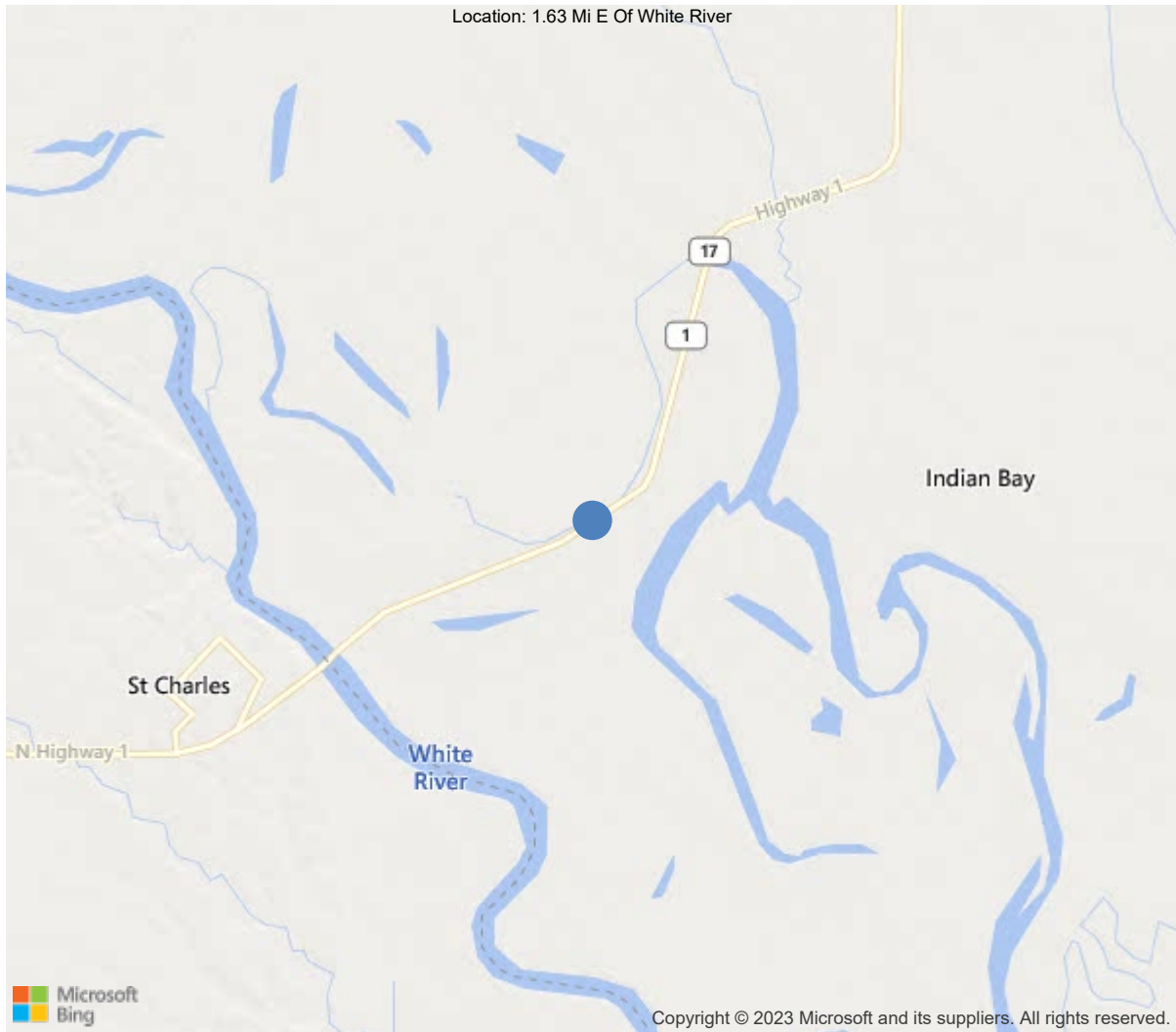
Latitude:34.38581, Longitude:-91.09932

Route:1 Section:06 Log:1.24

Arnold Road ID:48x1x6xA, Arnold Log mile:1.517

District 01, 95 - Monroe County

Owner: 1 - State Highway Agency



34.38581, -91.09932



Asset #05854(Routine)

Sh-1/Sec-6/L-1.24 over White River Relief

Location: 1.63 Mi E Of White River

Team Lead: Drew Melton, Inspection Date: 09/06/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05854
(5) Inventory Route	1
(2) Highway Agency District	01 - District 01
(3) County Code	95 - Monroe County
(4) Place Code	0
(6) Features Intersected	White River Relief
(7) Facility Carried	Sh-1/Sec-6/L-1.24
(9) Location	1.63 Mi E Of White River
(11) Mile Point	1.24 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000001060
(16) Latitude	34.38581
(17) Longitude	-91.09932
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	11
Material	1 - Concrete
Type	1 - Slab
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	27
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	5 - Epoxy Overlay
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1981
(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	940
(30) Year of ADT	2019
(109) Truck ADT	27 %
(19) Bypass, Detour Length	72 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	810 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	42.8 ft
(32) Approach Roadway Width (W/Shoulders)	40 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	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 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	1
(26) Functional Class	2 - Rural Principal 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	0 - The inventory route is not
(20) Toll	3 - On free road. The structure
(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	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	
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	7
(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 to
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	1200
(115) Year of Future ADT	2038

INSPECTIONS *			
(90) Inspection Date	09/06/2022		
(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.			



General Observation

DRAWING NUMBERS-23339-23342.

Abutment #1 approach roadway has settled increasing impact loading on bridge.

Abutment #2 approach roadway has settled increasing impact loading on bridge.

Small trees and vegetation are growing beside and under bridge.

58 - Deck (7 - GOOD CONDITION - some minor problems.)

9/14/2020-Deck has epoxy overlay.

59 - Superstructure (7 - GOOD CONDITION - some minor problems.)

10/22/2018 lowered superstructure from 8 to 7 due to deck rating and being a slab bridge.

60 - Substructure (7 - GOOD CONDITION - some minor problems.)

09/06/2022 lowered substructure from 8 to 7 due to minor spalls on caps.

A-46 - Asset Files

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Sh-1/Sec-6/L-1.24 over White River Relief

Location: 1.63 Mi E Of White River

Team Lead: Drew Melton, **Inspection Date:** 09/06/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	34563	33220	1343	0	0
1080	Delamination/Spall/Patched Area	SF	3	0	3	0	0
1120	Efflorescence/Rust Staining	SF	1340	0	1340	0	0
1130	Cracking (RC and Other)	SF	2080	2080	0	0	0
510	Wearing Surfaces	SF	32400	32390	10	0	0
3210	Delam/Spall/Patched Area/Pothole	SF	10	0	10	0	0
(38) 9/14/2020- Deck has epoxy overlay sealing cracks. Sides of slabs have hairline vertical cracks near bents some with light efflorescence. Each span has areas of longitudinal hairline cracks with light efflorescence in soffit-under surface. Span #8 soffit-under surface has 2 2" spalls and 1 6" delaminated area center of bridge. Wearing surface has a few small chipped areas near joint.							
215	Reinforced Concrete Abutment	LF	99	99	0	0	0
227	Reinforced Concrete Pile	EA	156	156	0	0	0
234	Reinforced Concrete Pier Cap	LF	1114	1105	5	4	0
1080	Delamination/Spall/Patched Area	LF	6	0	4	2	0
1090	Exposed Rebar	LF	2	0	1	1	0
1130	Cracking (RC and Other)	LF	1	0	0	1	0
(234) Bent #7 cap ahead face above pile #1,2,5 at top each area has a one foot spall no rebar exposed. Bent #7 cap right end front corner spalled off rebar exposed no section loss. Bent #10 cap left end back face top corner has a six inch crack with delamination. Bent #14 cap right end at top has a six inch delamination. Bent #17 cap ahead face has shallow 10" spall above pile #2. Bent #22 cap ahead face in center at top has a one foot spall with no rebar exposed. Bent #23 cap back face near right end has a one foot spall with no rebar exposed, and right end is spalled full height with exposed rebar with minor section loss.							
301	Pourable Joint Seal	LF	1109	1109	0	0	0
(301) 9/14/2020-Joint sealer has been repaired at time of inspection.							
331	Reinforced Concrete Bridge Railing	LF	1620	1296	324	0	0
1130	Cracking (RC and Other)	LF	324	0	324	0	0
(331) Bridge rail has cs2 vertical cracks spaced 4' to 6' apart.							



Asset #05854(Routine)

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Location: 1.63 Mi E Of White River

Team Lead: Drew Melton, Inspection Date: 09/06/2022

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	34563	33220	1343	0	0
1080	Delamination/Spall/Patched Area	SF	3	0	3	0	0
1120	Efflorescence/Rust Staining	SF	1340	0	1340	0	0
1130	Cracking (RC and Other)	SF	2080	2080	0	0	0
510	Wearing Surfaces	SF	32400	32390	10	0	0
3210	Delam/Spall/Patched Area/Pothole	SF	10	0	10	0	0
(38) 9/14/2020- Deck has epoxy overlay sealing cracks. Sides of slabs have hairline vertical cracks near bents some with light efflorescence. Each span has areas of longitudinal hairline cracks with light efflorescence in soffit-under surface. Span #8 soffit-under surface has 2 2" spalls and 1 6" delaminated area center of bridge. Wearing surface has a few small chipped areas near joint.							

58 - Deck (7 - GOOD CONDITION - some minor problems.)

Comment: 9/14/2020-Deck has epoxy overlay.



Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4

59 - Superstructure (7 - GOOD CONDITION - some minor problems.)

Comment: 10/22/2018 lowered superstructure from 8 to7 due to deck rating and being a slab bridge.



Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	99	99	0	0	0
227	Reinforced Concrete Pile	EA	156	156	0	0	0
234	Reinforced Concrete Pier Cap	LF	1114	1105	5	4	0
1080	Delamination/Spall/Patched Area	LF	6	0	4	2	0
1090	Exposed Rebar	LF	2	0	1	1	0
1130	Cracking (RC and Other)	LF	1	0	0	1	0
(234) Bent #7 cap ahead face above pile #1,2,5 at top each area has a one foot spall no rebar exposed. Bent #7 cap right end front corner spalled off rebar exposed no section loss. Bent #10 cap left end back face top corner has a six inch crack with delamination. Bent #14 cap right end at top has a six inch delamination. Bent #17 cap ahead face has shallow 10" spall above pile #2. Bent #22 cap ahead face in center at top has a one foot spall with no rebar exposed. Bent #23 cap back face near right end has a one foot spall with no rebar exposed, and right end is spalled full height with exposed rebar with minor section loss.							

60 - Substructure (7 - GOOD CONDITION - some minor problems.)

Comment: 09/06/2022 lowered substructure from 8 to 7 due to minor spalls on caps.



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Location: 1.63 Mi E Of White River

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Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Side view-elevation



Asset #05854(Routine)

Sh-1/Sec-6/L-1.24 over White River Relief

Location: 1.63 Mi E Of White River

Team Lead: Drew Melton, Inspection Date: 09/06/2022

Maintenance Needs

Date Reported: 10/22/2018
Priority: D- Routine
Type of Work: Repair (General)
Status: Monitor
Component: Element

Deficiency Description

Bent #7 cap ahead face above pile #1,2,5 at top each area has a one foot spall no rebar exposed.
Bent #7 cap right end front corner spalled off rebar exposed no section loss.
Bent #10 cap left end back face top corner has a six inch crack with delamination.
Bent #14 cap right end at top has a six inch delamination.
Bent #17 cap ahead face has shallow 10" spall above pile #2.
Bent #22 cap ahead face in center at top has a one foot spall with no rebar exposed.
Bent #23 cap back face near right end has a one foot spall with no rebar exposed, and right end is spalled full height with exposed rebar with minor section loss.

Remarks



Bent #7 right end.



Bent #23



Bent #23 cap back face, right end.

Date Reported: 10/30/2012
Priority: C - Important
Type of Work: (Inactive) (Inactive) 1 - Clean
Status: Monitor
Component: Miscellaneous

Deficiency Description

Small trees and vegetation are growing beside and under bridge.

Remarks



Vegetation right side of the bridge



Small trees and vegetation are growing beside and under bridge.



Vegetation growing beside and under and onto bridge abutment #2 right side.



Trees and vegetation growing beside, under and onto bridge abutment #2 left side.



Trees and vegetation growing beside and under bridge.

Date Reported: 10/22/2018
Priority: C - Important
Type of Work: Repair (General)
Status: Monitor
Component: Approach

Deficiency Description

Abutment #1,2 approach roadways have settled increasing impact loading on bridge.

Remarks



Abutment #1 approach roadway.



Abutment #2 approach roadway.



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Sh-1/Sec-6/L-1.24 over White River Relief

Location: 1.63 Mi E Of White River

Team Lead: Drew Melton, Inspection Date: 09/06/2022

Date Reported: 09/06/2022
Priority: D- Routine
Type of Work: Repair (General)
Status: Open
Component: Element

Deficiency Description

Wearing surface has a few small chipped areas near joint.

Remarks



Wearing surface has a few small chipped areas
near



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Location: 1.63 Mi E Of White River

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Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
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 - Hydro and LMC Advised	



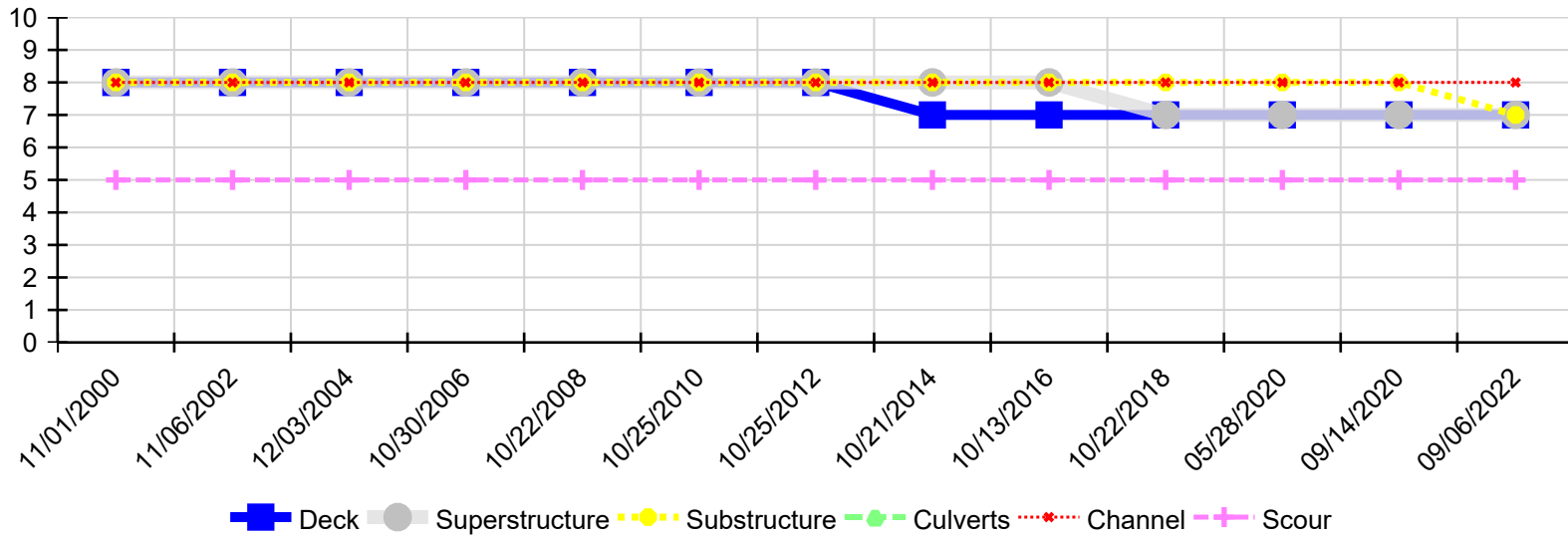
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Sh-1/Sec-6/L-1.24 over White River Relief

Location: 1.63 Mi E Of White River

Team Lead: Drew Melton, Inspection Date: 09/06/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
09/06/2022	7	7	7	N	8	5
09/14/2020	7	7	8	N	8	5
05/28/2020	7	7	8	N	8	5
10/22/2018	7	7	8	N	8	5
10/13/2016	7	8	8	N	8	5
10/21/2014	7	8	8	N	8	5
10/25/2012	8	8	8	N	8	5
10/25/2010	8	8	8	N	8	5
10/22/2008	8	8	8	N	8	5
10/30/2006	8	8	8	N	8	5
12/03/2004	8	8	8	N	8	5
11/06/2002	8	8	8	N	8	5
11/01/2000	8	8	8	N	8	5