



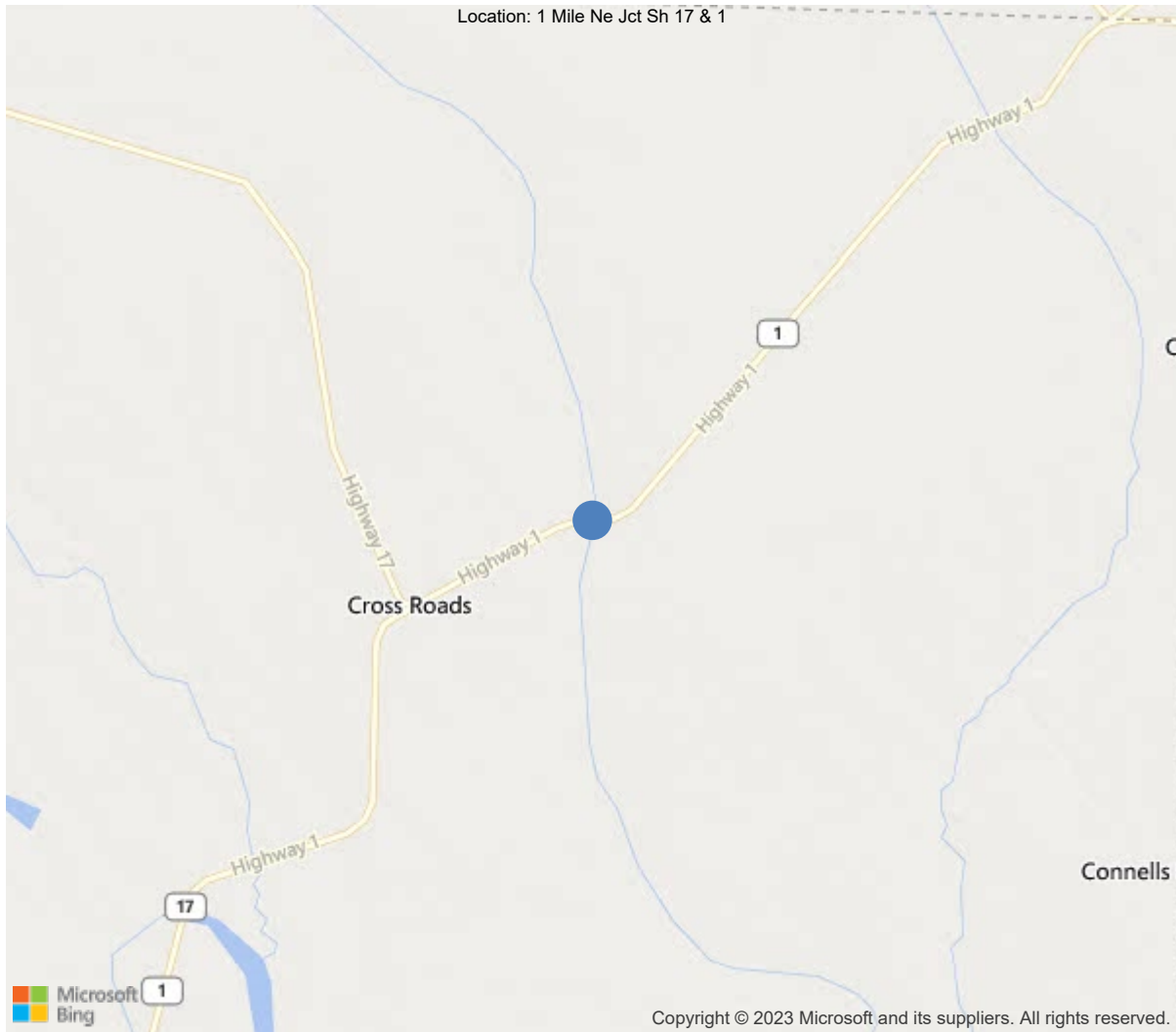
Latitude:34.43327, Longitude:-91.05346

Route:1 Section:06 Log:6.24

Arnold Road ID:48x1x6xA, Arnold Log mile:6.242

District 01, 95 - Monroe County

Owner: 1 - State Highway Agency



34.43327, -91.05346



Asset #A1748(Routine)

Sh-1/Sec-6/L-6.24 over Cypress Creek

Location: 1 Mile Ne Jct Sh 17 & 1

Team Lead: Drew Melton, Inspection Date: 10/31/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	A1748
(5) Inventory Route	1
(2) Highway Agency District	01 - District 01
(3) County Code	95 - Monroe County
(4) Place Code	0
(6) Features Intersected	Cypress Creek
(7) Facility Carried	Sh-1/Sec-6/L-6.24
(9) Location	1 Mile Ne Jct Sh 17 & 1
(11) Mile Point	6.24 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000001060
(16) Latitude	34.43327
(17) Longitude	-91.05346
(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	8
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	6 - Bituminous
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1956
(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	1300
(30) Year of ADT	2019
(109) Truck ADT	1 %
(19) Bypass, Detour Length	7 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	200 ft
(50) Curb or Sidewalk Width	
Left	1.5 ft
Right	1.5 ft
(51) Bridge Roadway Width Curb to Curb	26 ft
(52) Deck Width Out to Out	29 ft
(32) Approach Roadway Width (W/Shoulders)	24 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	26 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	6
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	4 - M 18 / H 20
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	44
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	26
(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	9
(72) Approach Roadway Alignment	6
(36A) Bridge Railings	0 - Inspected feature does not meet
(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	1415
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	10/31/2022		
(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

JOB NUMBER-11495 DRAWING NUMBER-8909-10,5415-16

Trees and vegetation are growing beside and under bridge.

58 - Deck (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

10/23/2018 lowered deck from 7 to 5 due to scaling, cracks leaching and asphalt patch areas.

10/31/2022 raised deck from 5 to 6 due to asphalt overlay being added.

59 - Superstructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

10/23/2018 lowered superstructure from 7 to 5 due to being slab bridge.

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10/23/2018 lowered substructure from 7 to 6 due to spalling and leaching on ends of caps.

61 - Channel/Channel Protection (6 - Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly.)

10/23/2018 lowered channel from 8 to 6 due to debris restriction.

Channel has large amounts of debris restrictions.

A-46 - Asset Files

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Asset #A1748(Routine)

Sh-1/Sec-6/L-6.24 over Cypress Creek

Location: 1 Mile Ne Jct Sh 17 & 1

Team Lead: Drew Melton, Inspection Date: 10/31/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	5900	5695	204	1	0
1080	Delamination/Spall/Patched Area	SF	4	0	4	0	0
1090	Exposed Rebar	SF	1	0	0	1	0
1120	Efflorescence/Rust Staining	SF	200	0	200	0	0
510	Wearing Surfaces	SF	5100	5100	0	0	0
(38) 10/27/2020-Deck has been overlain with achm since previous inspection. Curbs both sides of bridge span #4,5,7,8 each have areas of spalling and deterioration. Curbs right side of span #3,6 have areas of scaling. Soffit-under surface has one longitudinal crack with light efflorescence in each span near center. Soffit-under surface span #4 has 6" wide by 4' long delamination and 4" of exposed rebar at center line near bent #4.							
215	Reinforced Concrete Abutment	LF	76	56	20	0	0
6000	Scour	LF	20	0	20	0	0
(215) Abutment #2 left end moderate erosion with pile #1 exposed.							
227	Reinforced Concrete Pile	EA	29	9	20	0	0
1190	Abrasion/Wear (PSC/RC)	EA	20	0	20	0	0
(227) Bents #3-7 piles have light abrasion.							
234	Reinforced Concrete Pier Cap	LF	208	190	1	17	0
1080	Delamination/Spall/Patched Area	LF	2	0	0	2	0
1090	Exposed Rebar	LF	2	0	1	1	0
1120	Efflorescence/Rust Staining	LF	14	0	0	14	0
(234) Ends of caps are cracked with moderate efflorescence. Bent #3 cap both ends are spalled with exposed rebar with moderate section loss. Bent #3 cap right end back face has 4' of cracking with light efflorescence. Bent #4 cap right back face top corner is spalled with 3" of exposed rebar with no section loss. Bent #5 cap left end front and back face have 3' of cracking with light efflorescence. Bent #6 cap right back face corner is spalled off no rebar exposed. Bent #7 cap left ahead face has a one foot piece of exposed rebar with moderate section loss. Bent #8 cap right bottom corner is spalled with no rebar exposed.							
301	Pourable Joint Seal	LF	52	0	0	52	0
2350	Debris Impaction	LF	52	0	0	52	0
(301) Joints are covered in asphalt. Rest are impacted, limiting movement.							
330	Metal Bridge Railing	LF	400	200	200	0	0
7000	Damage	LF	200	0	200	0	0
515	Steel Protective Coating	SF	1200	1200	0	0	0

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
	(330) Several rail posts are cracked near bottom. Bent #8 left rail post is spalled on bottom with no exposed rebar. Left bridge rail has light collision damage full length.						



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510	Wearing Surfaces	SF	5100	5100	0	0	0
(38) 10/27/2020-Deck has been overlain with achm since previous inspection. Curbs both sides of bridge span #4,5,7,8 each have areas of spalling and deterioration. Curbs right side of span #3,6 have areas of scaling. Soffit-under surface has one longitudinal crack with light efflorescence in each span near center. Soffit-under surface span #4 has 6" wide by 4' long delamination and 4" of exposed rebar at center line near bent #4.							

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Comment: 10/23/2018 lowered deck from 7 to 5 due to scaling, cracks leaching and asphalt patch areas.

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Sh-1/Sec-6/L-6.24 over Cypress Creek

Location: 1 Mile Ne Jct Sh 17 & 1

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Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4

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Substructure

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6000	Scour	LF	20	0	20	0	0
(215) Abutment #2 left end moderate erosion with pile #1 exposed.							
227	Reinforced Concrete Pile	EA	29	9	20	0	0
1190	Abrasion/Wear (PSC/RC)	EA	20	0	20	0	0
(227) Bents #3-7 piles have light abrasion.							
234	Reinforced Concrete Pier Cap	LF	208	190	1	17	0
1080	Delamination/Spall/Patched Area	LF	2	0	0	2	0
1090	Exposed Rebar	LF	2	0	1	1	0
1120	Efflorescence/Rust Staining	LF	14	0	0	14	0
(234) Ends of caps are cracked with moderate efflorescence. Bent #3 cap both ends are spalled with exposed rebar with moderate section loss. Bent #3 cap right end back face has 4' of cracking with light efflorescence. Bent #4 cap right back face top corner is spalled with 3" of exposed rebar with no section loss. Bent #5 cap left end front and back face have 3' of cracking with light efflorescence. Bent #6 cap right back face corner is spalled off no rebar exposed. Bent #7 cap left ahead face has a one foot piece of exposed rebar with moderate section loss. Bent #8 cap right bottom corner is spalled with no rebar exposed.							

60 - Substructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Comment: 10/23/2018 lowered substructure from 7 to 6 due to spalling and leaching on ends of caps.

61 - Channel/Channel Protection (6 - Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly.)

Comment: 10/23/2018 lowered channel from 8 to 6 due to debris restriction.

Channel has large amounts of debris restrictions.



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Location: 1 Mile Ne Jct Sh 17 & 1

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Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Side view-elevation

Maintenance Needs

Date Reported: 10/23/2018
Priority: C - Important
Type of Work: Repair (General)
Status: RepairDocumented
Component: Element

Deficiency Description

Right shoulder full length has moderate scaling with loose aggregate.

Remarks

10/31/2022 deck has been overlaid.



Right shoulder full length has moderate scaling with loose aggregate.



Typical deck overlay



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Location: 1 Mile Ne Jct Sh 17 & 1

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Date Reported: 10/23/2018
Priority: D- Routine
Type of Work: Repair (General)
Status: Monitor
Component: Element

Deficiency Description

Bent #3 cap both ends are spalled with exposed rebar with moderate section loss.
Bent #3 cap right end back face has 4' of cracking with light efflorescence.
Bent #4 cap right back face top corner is spalled with 3" of exposed rebar with no section loss.
Bent #5 cap left end front and back face have 3' of cracking with light efflorescence.
Bent #6 cap right back face corner is spalled off no rebar exposed.
Bent #7 cap left ahead face has a one foot piece of exposed rebar with moderate section loss.
Bent #8 cap right bottom corner is spalled with no rebar exposed.

Remarks



Bent #3 right end.



Bent #8 cap right end.



Bent #3 cap right end.



Bent #3 cap left end.

Date Reported: 10/23/2018
Priority: D- Routine
Type of Work: Repair (General)
Status: Monitor
Component: Element

Deficiency Description

Curbs both sides of bridge span #5,7,8 each have areas of spalling and deterioration.

Remarks



Typical heavily scaled curb.



Typical curb



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Team Lead: Drew Melton, Inspection Date: 10/31/2022

Date Reported: 10/23/2018
Priority: C - Important
Type of Work: (Inactive) (Inactive) 1 - Clean
Status: Monitor
Component: Channel

Deficiency Description

Trees and vegetation are growing beside and under bridge.

Remarks



Vegetation growing beside and under edge of bridge



Trees and vegetation are growing beside and under bridge.



Trees and vegetation growing beside and under bridge.

Date Reported: 10/23/2018
Priority: C - Important
Type of Work: Repair (General)
Status: Assigned
Component: Element

Deficiency Description

Slope abutment #2 left side cap is undermined four feet and up to one foot deep exposing pile #1.

Remarks



Abutment #2 left side erosion.



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Sh-1/Sec-6/L-6.24 over Cypress Creek

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Team Lead: Drew Melton, Inspection Date: 10/31/2022

Date Reported: 10/30/2020
Priority: D- Routine
Type of Work: Repair (General)
Status: Forward State
Component: Approach

Deficiency Description

Approach rails, both abutments have minor collision damage.

Remarks



Abutment #1 right approach rail.



Abutment #1 left approach rail.



Abutment #2 left approach rail.



Abutment #2 right approach rail.



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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	



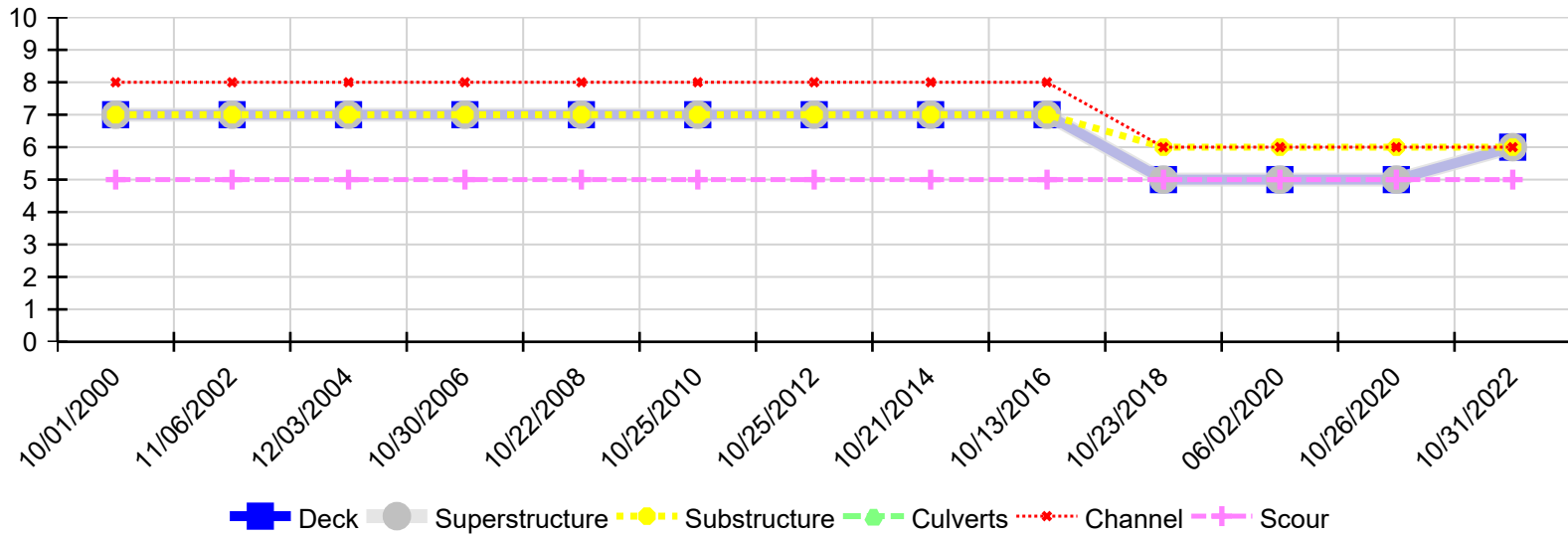
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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
10/31/2022	6		6	N	6	5
10/26/2020	5		6	N	6	5
06/02/2020	5		6	N	6	5
10/23/2018	5		6	N	6	5
10/13/2016	7		7	N	8	5
10/21/2014	7		7	N	8	5
10/25/2012	7		7	N	8	5
10/25/2010	7		7	N	8	5
10/22/2008	7		7	N	8	5
10/30/2006	7		7	N	8	5
12/03/2004	7		7	N	8	5
11/06/2002	7		7	N	8	5
10/01/2000	7		7	N	8	5