



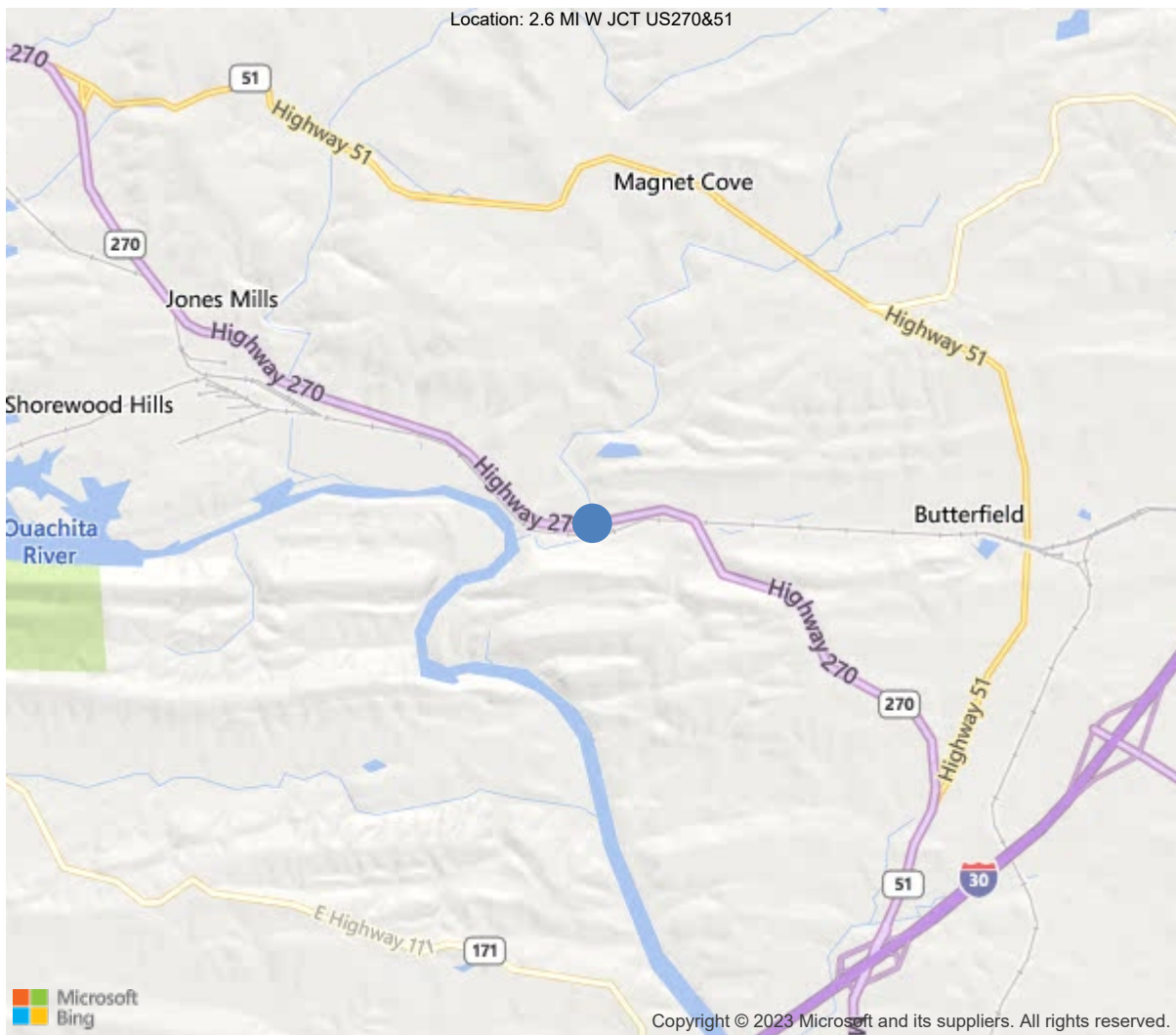
Latitude:34.42874, Longitude:-92.85176

Route:270 Section:07 Log:4.63

Arnold Road ID:30x270x7xA, Arnold Log mile:4.79

District 06, 59 - Hot Spring County

Owner: 1 - State Highway Agency



34.42874, -92.85176





**Asset #06025**(Routine, Underwater type 2)  
**US 270-7 Log 4.63 over STONE QUARRY CREEK**

**Location: 2.6 MI W JCT US270&51**

**Team Lead: Chris Doggett, Inspection Date: 12/06/2022**

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	06025
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	59 - Hot Spring County
(4) Place Code	0
(6) Features Intersected	STONE QUARRY CREEK
(7) Facility Carried	US 270-7 Log 4.63
(9) Location	2.6 MI W JCT US270&51
(11) Mile Point	4.63 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000270070
(16) Latitude	34.42874
(17) Longitude	-92.85176
(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	3
(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	1984
(106) Year Reconstructed	0
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	4
Under	0
(29) Average Daily Traffic	12000
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	2 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	35 ft
(49) Structure Length	105 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	68 ft
(52) Deck Width Out to Out	71 ft
(32) Approach Roadway Width (W/Shoulders)	67.9 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	68.9 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	99.9 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	5
(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	
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	5
(68) Deck Geometry	9
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	0 - Inspected feature does not meet
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	0 - Inspected feature does not meet
(113) Scour Critical Bridges	8 - 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	0
(114) Future ADT	15525
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	12/06/2022		
(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.			



Asset #06025(Routine, Underwater type 2)

District: 06, County: 59 - Hot Spring County

Team Lead: Chris Doggett, Inspection Date: 12/06/2022

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**58 - Deck (7)**

Deck has new polymer overlay under job #. 012350

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**60 - Substructure (5)**

12/12/2018-KRM & RLS- Underwater Type 2 inspection performed this date. Channel profile and sounding sheet attached to the Sketch tab.

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**A-46 - Asset Files**

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**General Observation (False)**

job 60117 dwg 26168  
Approach Eastbound.

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## Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	7455	7286	169	0	0
1080	Delamination/Spall/Patched Area	SF	14	0	14	0	0
1090	Exposed Rebar	SF	3	0	3	0	0
1120	Efflorescence/Rust Staining	SF	152	0	152	0	0
510	Wearing Surfaces	SF	7130	7128	2	0	0
3210	Delam/Spall/Patched Area/Pothole	SF	2	0	2	0	0
(38) Span 1, spall with exposed rebar in soffit. Soffit all spans have cracks with efflorescence. Polymer overlay has been applied to deck under job# 012350							
(510-38) Span 3: the far right lane has couple of small areas where the polymer overlay has peeled away from the deck surface							

### 58 - Deck (7)

Comment: Deck has new polymer overlay under job #. 012350



**Asset #06025**(Routine, Underwater type 2)  
**US 270-7 Log 4.63 over STONE QUARRY CREEK**

**Location: 2.6 MI W JCT US270&51**

**Team Lead:** Chris Doggett, **Inspection Date:** 12/06/2022

### Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4





## Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	8	7	1	0	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
(205) Bent 2, column 1, small spall.							
215	Reinforced Concrete Abutment	LF	166	157	1	8	0
1130	Cracking (RC and Other)	LF	1	0	1	0	0
6000	Scour	LF	8	0	0	8	0
(215) Both abutments have had erosion undermine the ends, but at bent one both ends have pile exposed. Bent 4 has a crack.							
225	Steel Pile	EA	2	1	1	0	0
1000	Corrosion	EA	1	0	1	0	0
(225) Bent 1 both left and right side, pile exposed due to erosion under cap. Pile 1 has laminating rust.							
234	Reinforced Concrete Pier Cap	LF	142	125	10	7	0
1080	Delamination/Spall/Patched Area	LF	9	0	2	7	0
1090	Exposed Rebar	LF	3	0	3	0	0
1120	Efflorescence/Rust Staining	LF	3	0	3	0	0
1130	Cracking (RC and Other)	LF	2	0	2	0	0
(234) Bent 2 ahead side, large spall with exposed rebar, cracks and cracks with efflorescence, small spall. Bent 3 has spalls with exposed rebar on the bottom at centerline and on the ahead face above column 4, cracks with efflorescence, small spall.							

### 60 - Substructure (5)

Comment: 12/12/2018-KRM & RLS- Underwater Type 2 inspection performed this date. Channel profile and sounding sheet attached to the Sketch tab.



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### Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Elevation



Span 2: soffit has longitudinal cracks with efflorescence staining at centerline.



Ahead bent 2: cap has large spall with exposed rebar.



Inventory looking east





Deck view



Both gutter lines are full of gravel



Span 3: the far right lane has couple of small areas where the polymer overlay has peeled away from the deck surface



Soffit view



**Maintenance Needs**

**Date Reported:** 11/06/2013  
**Priority:** D- Routine  
**Type of Work:** Repair (General)  
**Status:** Assigned  
**Component:** Substructure

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**Deficiency Description**

Bent 1 erosion has undermined both ends of bent. Added: 12/12/2018-KRM & RLS- The exterior pile of bent 1 are exposed due erosion.

**Remarks**

Assigned Hot Springs 06301 11-18-16

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Bent 1: left end erosion has washed material out from under abutment exposing a steel pile. 2022



Bent 1: right end of abutment erosion has exposed pile under this bent. 2022



Bent 1 right side undermined due to erosion.



Bent 1 erosion has undermined the left end of bent.





Bent 1, laminating rust on pile exposed due to erosion on the left side.



Bent 1 abutment right side undermined due to erosion.

**Date Reported:** 12/06/2022  
**Priority:** D- Routine  
**Type of Work:** Miscellaneous  
**Status:** Open  
**Component:** Miscellaneous

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**Deficiency Description**

Heavy growth of vegetation at both sides of bridge.

**Remarks**

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Heavy growth of vegetation at both sides of bridge.



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## **Routine Maintenance**

Check Box Maintenance Items

<b>Data Field</b>	<b>Value</b>
A-54 - Sealable Deck Cracks	No
A-55 - Deck Washing Needed	Yes
A-56 - Joint Cleaning/Flushing Needed	No
A-57-Beam End and Bearing Paint Needed	No
A-58 - Cap Cleaning/Flushing Needed	No
A-59 - Joint Repair Needed	No
A-60 - Full Beam Painting Needed	No
A-61 - Polymer Overlay Advised	No
A-62 - Hydo and LMC Advised	No



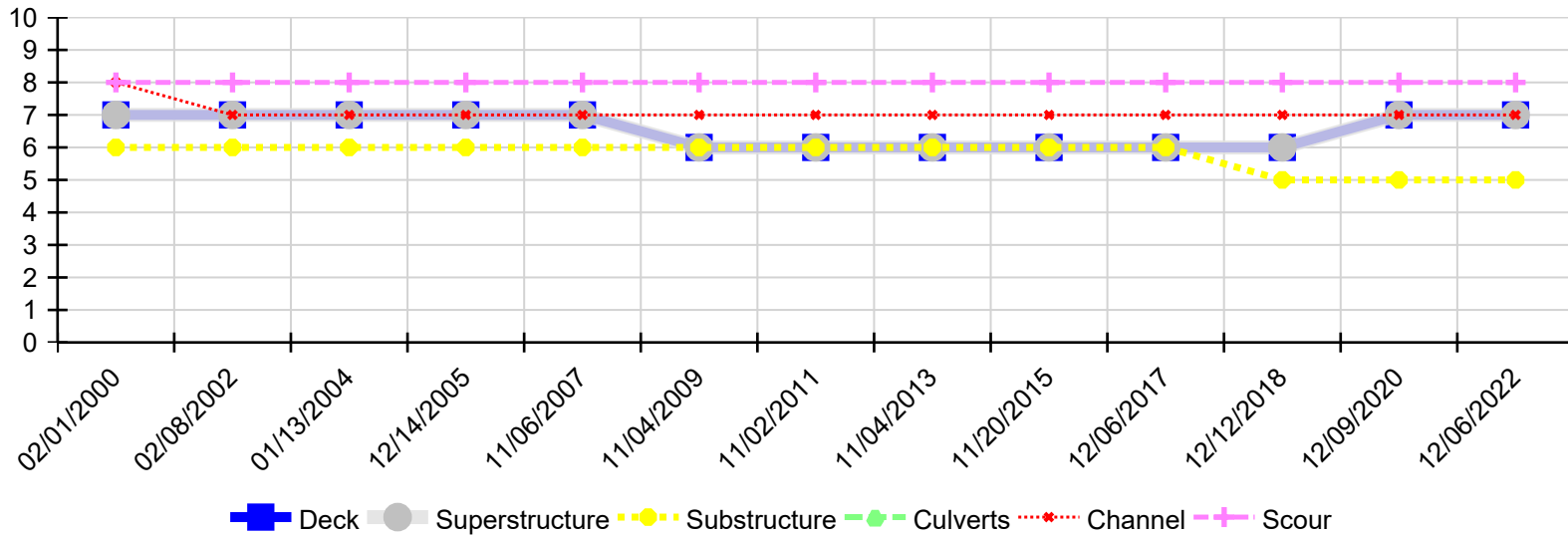


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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
12/06/2022	7	7	5	N	7	8
12/09/2020	7	7	5	N	7	8
12/12/2018	6	6	5	N	7	8
12/06/2017	6	6	6	N	7	8
11/20/2015	6	6	6	N	7	8
11/04/2013	6	6	6	N	7	8
11/02/2011	6	6	6	N	7	8
11/04/2009	6	6	6	N	7	8
11/06/2007	7	7	6	N	7	8
12/14/2005	7	7	6	N	7	8
01/13/2004	7	7	6	N	7	8
02/08/2002	7	7	6	N	7	8
02/01/2000	7	7	6	N	8	8