



Latitude:34.42874, Longitude:-92.85176

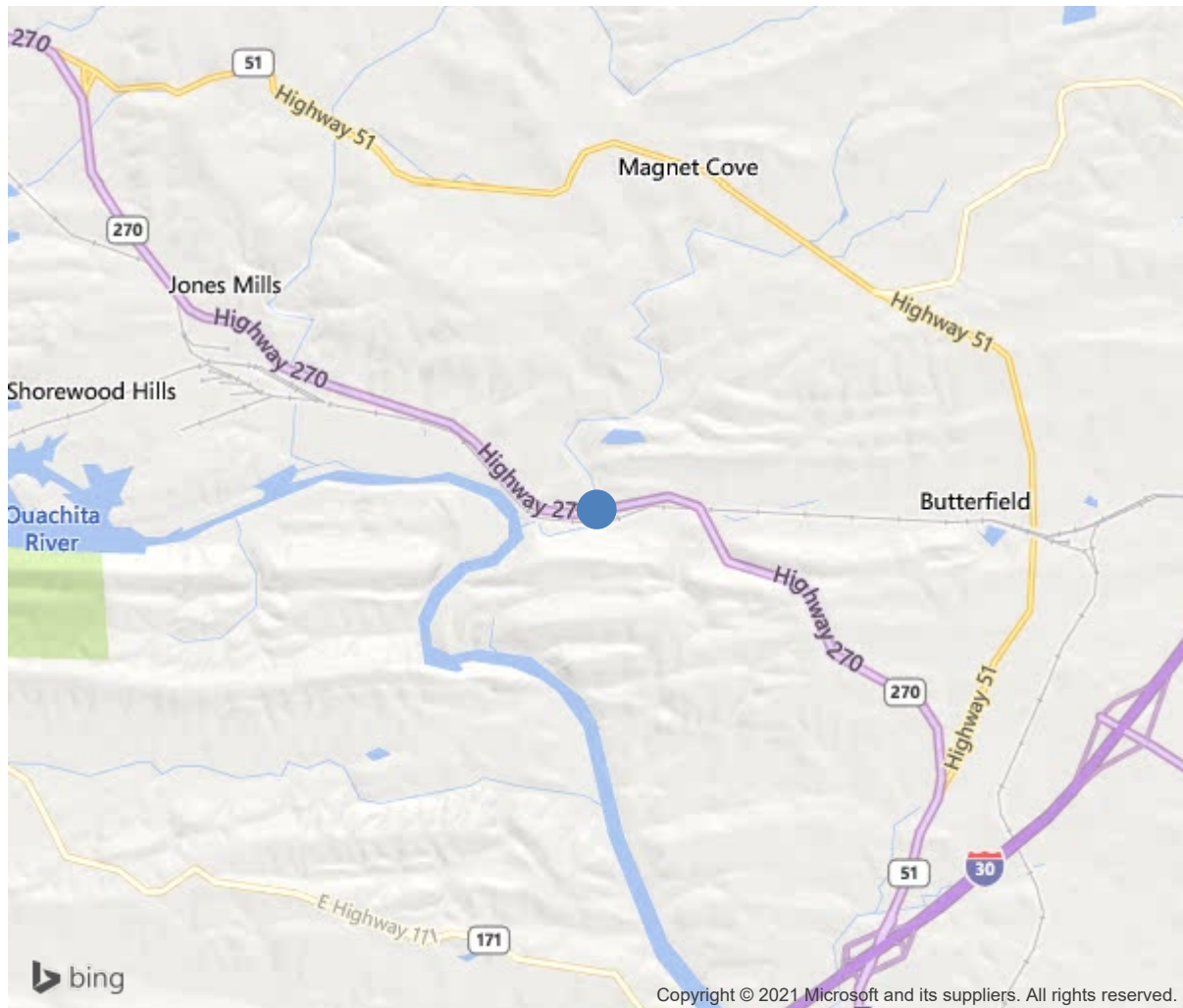
Route:270 Section:07 Log:4.63

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

District 06, Hot Spring County

Owner: 1-State Highway Agency

2.6 MI W JCT US270&51



34.42874, -92.85176



Bridge #06025(Routine)

US 270-7 Log 4.63 over STONE QUARRY CREEK

Location: 2.6 MI W JCT US270&51

Team Lead: Shane Byrd Inspection Date: December 09, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	06025
(5) Inventory Route	270
(2) Highway Agency District	06
(3) County Code	59-Hot Spring County, Arkansas
(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 placed
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	13000
(30) Year of ADT	2014
(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	67.9 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	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 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	0-The inventory route is not part of
(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	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	3
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 currently a
(36B) Transitions	0-Inspected feature does not meet cur
(36C) Approach Guardrail	0-Inspected feature does not meet cur
(36D) Approach Guardrail Ends	0-Inspected feature does not meet cur
(113) Scour Critical Bridges	8-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	0
(114) Future ADT	15525
(115) Year of Future ADT	2028
INSPECTIONS	
(90) Inspection Date	12/2020
(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

Team Lead: Shane Byrd, **Inspection Date:** December 09, 2020

ELEM	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	7130	0	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							
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	165	1	0	0
1130	Cracking (RC and Other)	LF	1	0	1	0	0
(215)							
Erosion has undermined the ends of bent 1 exposing the exterior piles. Bent 2 has a crack.							
225	Steel Pile	EA	2	1	1	0	0
1000	Corrosion	EA	1	0	1	0	0
(225)							
Bent 1 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.							
301	Pourable Joint Seal	LF	136	136	0	0	0
(301)							
Pourable joint seals have been repaired under job#12350							

Team Lead: Shane Byrd, **Inspection Date:** December 09, 2020



Deck overview.



Approach Eastbound.



Span 1 soffit has cracks with efflorescence.



Span 1 soffit has cracks with efflorescence.



Span 1 soffit has spall with exposed rebar.



Soffit span 3 has spall with exposed rebar.



Pile exposed due to erosion on left side of bent 1 has active corrosion.



Bent 2 cap ahead has large spalls with exposed rebar.



Bent 3 cap bottom between columns 2&3 has spall with exposed rebar.



Pourable joint seals have been repaired under job# 012350

Maintenance Needs

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

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



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.



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Location: 2.6 MI W JCT US270&51

Team Lead: Shane Byrd **Inspection Date:** December 09, 2020

Inspection Comments

job 60117 dwg 26168
Approach Eastbound.

Deck Notes

Deck has new polymer overlay under job #. 012350

Substructure Notes

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