Bridge #05667(Routine)
SH 5 Log 7.63 over ROCK CREEK
Location: 0.1M W OF 36TH ST I-8
Team Lead: Keith Harris **Inspection Date:** April 06, 2020

Latitude:34.71766, Longitude:-92.35345

Route:5 Section:09 Log:7.63

Arnold Road ID:60x5x9xA, Arnold Log mile:7.607

District 06, Pulaski County

Owner: 1-State Highway Agency

Place Code: 39020 - LITTLE ROCK

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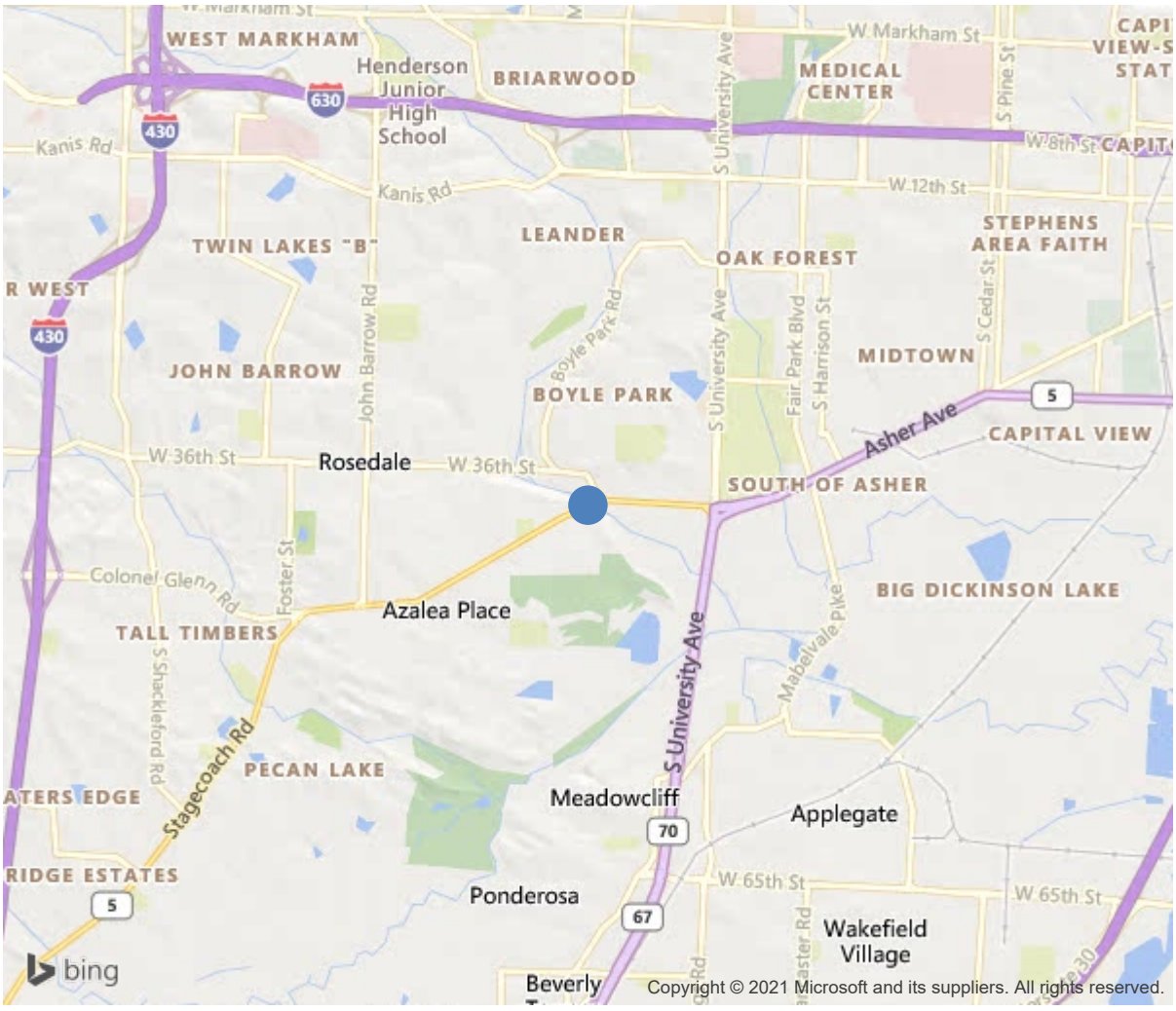

34.71766, -92.35345

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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	05667
(5) Inventory Route	5
(2) Highway Agency District	06
(3) County Code	119-Pulaski County, Arkansas
(4) Place Code	39020
(6) Features Intersected	ROCK CREEK
(7) Facility Carried	SH 5 Log 7.63
(9) Location	0.1M W OF 36TH ST I-8
(11) Mile Point	7.63 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000005090
(16) Latitude	34.71766
(17) Longitude	-92.35345
(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	5
(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	1980
(106) Year Reconstructed	0
(42) Type of Service	55
On	5-Highway-pedestrian
Under	5-Waterway
(28) Lane	
On	5
Under	0
(29) Average Daily Traffic	20000
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	7 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	40 ft
(49) Structure Length	190 ft
(50) Curb or Sidewalk Width	
Left	4 ft
Right	4 ft
(51) Bridge Roadway Width Curb to Curb	57.1 ft
(52) Deck Width Out to Out	65 ft
(32) Approach Roadway Width (W/Shoulders)	55.1 ft
(33) Bridge Median	0-No median
(34) Skew	40 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	65 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	14-Urban Other Principal Arterial
(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	5
(59) Superstructure	5
(60) Substructure	5
(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	5
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	2
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36) Traffic Safety Features	1NNN
A) Bridge Railings	1-Inspected feature meets currently a
B) Transitions	N-Not applicable or a safety feature
C) Approach Guardrail	N-Not applicable or a safety feature
D) Approach Guardrail Ends	N-Not applicable or a safety feature
(113) Scour Critical Bridges	8-Bridge foundations determined to be
PROPOSED IMPROVEMENTS	
(75) Type of Work	Replacement of bridge or other
(76) Length of Structure Improvement	222 ft
(94) Bridge Improvement Cost	$ 0
(95) Roadway Improvement Cost	$ 382
(96) Total Project Cost	$ 1242
(97) Year of Improvement Cost Estimate	2002
(114) Future ADT	46662
(115) Year of Future ADT	2028

INSPECTIONS			
(90) Inspection Date			
(91) Frequency			24 Months
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No	24	
B: Underwater Inspection	Yes	0	
C: Other Special Inspection	No	0	

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	10925	7205	2295	1425	0
1080	Delamination/Spall/Patched Area	SF	10	0	10	0	0
1120	Efflorescence/Rust Staining	SF	110	0	110	0	0
1130	Cracking (RC and Other)	SF	3600	0	2175	1425	0
(38)							
The deck: all spans have large unsealed cracks that are transverse and 90 degrees to the skew of bridge. Some of the larger cracks reflect thru to the soffit with light efflorescence. Cracks up to 1/8" wide. Spans 2,3 & 4 have sag up to 1" see sketch. Cracks and small delams. On the sides of slabs at bents 2,3,4 & 5.							
205	Reinforced Concrete Column	EA	20	6	14	0	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
1130	Cracking (RC and Other)	EA	3	0	3	0	0
1190	Abrasion/Wear (PSC/RC)	EA	10	0	10	0	0
(205)							
Bent 1 columns 2 & 5 have small vertical cracks at ground line. Bent 5 column 4 small spall. Bents 3 and 4 columns have minor horse shoe scour action.							
215	Reinforced Concrete Abutment	LF	231	215	16	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	14	0	14	0	0
234	Reinforced Concrete Pier Cap	LF	308	211	75	22	0
1080	Delamination/Spall/Patched Area	LF	18	0	0	18	0
1090	Exposed Rebar	LF	4	0	0	4	0
1130	Cracking (RC and Other)	LF	75	0	75	0	0
(234)							
Bent 3 cap back: spalls and large delaminations on the back face. Common at bent 2, 4 & 5. Areas of map cracking on all caps.							
301	Pourable Joint Seal	LF	300	0	0	300	0
2310	Leakage	LF	300	0	0	300	0
(301)							
All joint seals have lost bond.							
321	Reinforced Concrete Approach Slab	SF	1370	858	210	302	0
1130	Cracking (RC and Other)	SF	512	0	210	302	0
(321)							

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
Both approach slabs have large cracks.							
330	Metal Bridge Railing	LF	380	380	0	0	0
331	Reinforced Concrete Bridge Railing	LF	380	260	120	0	0
1130	Cracking (RC and Other)	LF	120	0	120	0	0

Underview

Approach

Deck overview

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Maintenance Needs

Date Reported: 04/24/2012
Priority: C - Important
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Deck, All spans
Moderate to Large Unsealed cracks.

Remarks

Span 1, transverse deck cracks.

Span 2, map cracking with cracks up to 0.050”.

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Date Reported: 04/24/2012
Priority: D- Routine
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Scattered cracks and map cracks on all caps.
Bents 2,3 4 & 5 have spalls with rebar exposed and delaminations.

Remarks

Bt. 4 cap, back side has a spall.

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Bt. 3 cap, back side has spalls with exposed rebar.

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Inspection Comments

See AHTD drawing # 20672 for layout.

Logged east bound.