



Latitude:34.79848, Longitude:-91.78242

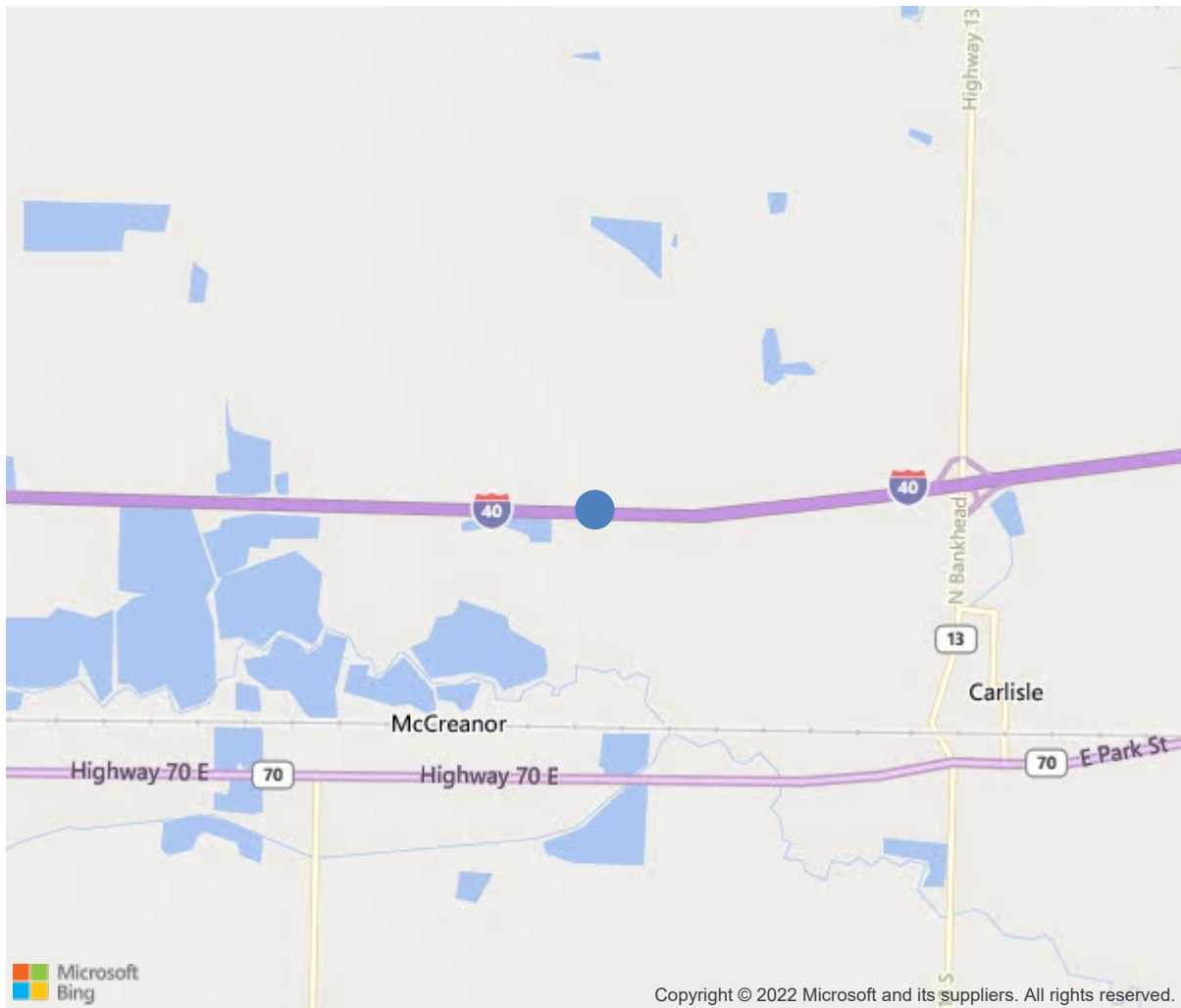
Route:40 Section:41 Log:180.68

Arnold Road ID:43x40x41xB, Arnold Log mile:103.89

District 06, Lonoke County

Owner: 1-State Highway Agency

2 MI W SH 13-WESTBOUND



34.79848, -91.78242

Inspection Direction : W to E



Bridge #A3654(Routine)

I-40 WB Log 180.68 over RICKETY BRANCH

Location: 2 MI W SH 13-WESTBOUND

Team Lead: Keith Harris Inspection Date: March 16, 2021

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	A3654
(5) Inventory Route	40
(2) Highway Agency District	06
(3) County Code	85-Lonoke County, Arkansas
(4) Place Code	0
(6) Features Intersected	RICKETY BRANCH
(7) Facility Carried	I-40 WB Log 180.68
(9) Location	2 MI W SH 13-WESTBOUND
(11) Mile Point	180.68 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000040410
(16) Latitude	34.79848
(17) Longitude	-91.78242
(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	1963
(106) Year Reconstructed	1990
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	60025
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	75 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	43 ft
(32) Approach Roadway Width (W/Shoulders)	38.1 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	41 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	1-Rural Principal Arterial - Int
(100) Defense Highway	1-The inventory route is on a In
(101) Parallel Structure	L-The left structure of parallel
(102) Direction of Traffic	1 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0-N/A
(110) Designated National Network	1-The inventory route is part of the
(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	7
(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	6
(68) Deck Geometry	7
(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	1-Inspected feature meets currently a
(36C) Approach Guardrail	1-Inspected feature meets currently a
(36D) Approach Guardrail Ends	1-Inspected feature meets currently a
(113) Scour Critical Bridges	5-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	
(114) Future ADT	22787
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			03/2021
(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		
* 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.			

**Bridge #A3654(Routine)**  
**I-40 WB Log 180.68 over RICKETY BRANCH**

**Location: 2 MI W SH 13-WESTBOUND**

**Team Lead:** Keith Harris, **Inspection Date:** March 16, 2021

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	3225	3124	72	29	0
1080	Delamination/Spall/Patched Area	SF	4	0	0	4	0
1130	Cracking (RC and Other)	SF	97	0	72	25	0
(38)	Spall filled with asphalt in the end of span 2. All three spans have longitudinal cracks near centerline. (0.035 inch width avg.) Span 3 has longitudinal cracks up to 1/8" wide.						
215	Reinforced Concrete Abutment	LF	94	94	0	0	0
227	Reinforced Concrete Pile	EA	14	14	0	0	0
234	Reinforced Concrete Pier Cap	LF	89	82	0	7	0
1090	Exposed Rebar	LF	7	0	0	7	0
(234)	Bent 2 right end of cap back above pile 7 spall with exposed rebar. Bent 3 small spalls with rebar on bottle of cap						
301	Pourable Joint Seal	LF	89	0	89	0	0
2320	Seal Adhesion	LF	89	0	89	0	0
321	Reinforced Concrete Approach Slab	SF	2788	2704	12	72	0
1130	Cracking (RC and Other)	SF	84	0	12	72	0
(321)	Both approach slabs have transverse cracks.						
331	Reinforced Concrete Bridge Railing	LF	150	147	0	3	0
1130	Cracking (RC and Other)	LF	3	0	0	3	0
(331)	Right end of bridge rail at bent 1 large cracks.						





Deck overview



Slab under view Span 2





Cracks with efflorescence at centerline of span 3.



Spall with exposed rebar on bent 2 cap





Approach



Large cracks in East approach slab



**Maintenance Needs**

**Date Reported:** 03/06/2013  
**Priority:** C - Important  
**Type of Work:** None  
**Status:** Monitor  
**Inspection Direction** W to E  
**Component:**

---

**Deficiency Description**

Span # 2 deck spall right lane west bound.

**Remarks**

---



Span 2 at bent 3: large spall that has an asphalt patch.





Bridge #A3654(Routine)  
I-40 WB Log 180.68 over RICKETY BRANCH  
Location: 2 MI W SH 13-WESTBOUND

Team Lead: Keith Harris Inspection Date: March 16, 2021

Date Reported: 03/20/2017  
Priority: C - Important  
Type of Work: None  
Status: Monitor  
Inspection Direction W to E  
Component:

---

#### Deficiency Description

Span 3 large unsealed cracks.

#### Remarks

---



Span 3 unsealed crack at centerline



**Bridge #A3654**(Routine)

**I-40 WB Log 180.68 over RICKETY BRANCH**

**Location: 2 MI W SH 13-WESTBOUND**

**Team Lead:** Keith Harris **Inspection Date:** March 16, 2021

**Inspection Comments**

Logged Eastbound

Layout Drawing #30712

Channel profile added 3-16-21