



Latitude:34.79853, Longitude:-91.80603

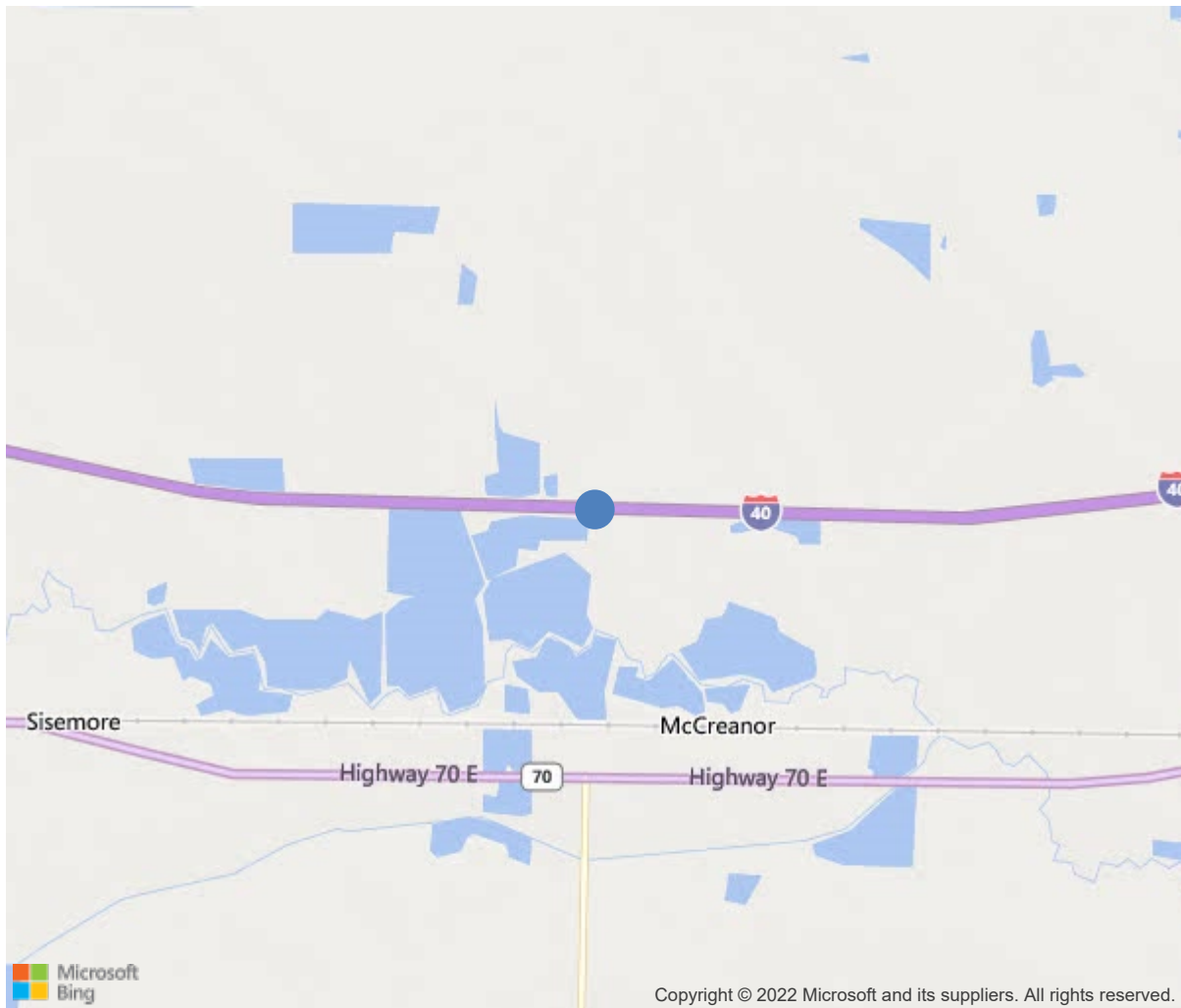
Route:308 Section:00 Log:3.809

Arnold Road ID:43xNORTH CUTTRDx1xA, Arnold Log mile:1.389

District 06, Lonoke County

Owner: 1-State Highway Agency

1.4 M N US 70



34.79853, -91.80603

Inspection Direction : S to N



Bridge #03653(Routine)

CR308-K Northcutt over I-40 LOG 179.34

Location: 1.4 M N US 70

Team Lead: Keith Harris Inspection Date: April 21, 2022

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03653
(5) Inventory Route	308
(2) Highway Agency District	06
(3) County Code	85-Lonoke County, Arkansas
(4) Place Code	0
(6) Features Intersected	I-40 LOG 179.34
(7) Facility Carried	CR308-K Northcutt
(9) Location	1.4 M N US 70
(11) Mile Point	3.809 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.79853
(17) Longitude	-91.80603
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	32
Material	3-Steel
Type	2-Stringer/Multi-beam or girder
(44) Approach Structure Type	00
Material	0-Other
Type	0-Other
(45) No. of Spans in Main Unit	4
(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	0
(42) Type of Service	11
On	1-Highway
Under	1-Highway, with or without pedestrian
(28) Lane	
On	2
Under	4
(29) Average Daily Traffic	86
(30) Year of ADT	1987
(109) Truck ADT	1 %
(19) Bypass, Detour Length	6 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	66 ft
(49) Structure Length	212 ft
(50) Curb or Sidewalk Width	
Left	1.1 ft
Right	1.1 ft
(51) Bridge Roadway Width Curb to Curb	20 ft
(52) Deck Width Out to Out	24.5 ft
(32) Approach Roadway Width (W/Shoulders)	23 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	20 ft
(53) Min Vert Clear Over Bridge Rdwy	99.9 ft
(54) Min Vert Underclear	16.5 ft
Ref:	
(55) Min Lat Underclear RT	9.6 ft
Ref:	
(56) Min Lat Underclear LT	7.8 ft
NAVIGATION DATA	
(38) Navigation Control	N-Not applicable, no waterway.
(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	0
(26) Functional Class	8-Rural Minor Collector
(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	6
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	N
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2-M 13.5 / H 15
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	48
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	4
Rating	29
(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	4
(69) Clearances, Vertical/Horizontal	3
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0-Inspected feature does not meet cur
(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	N-Bridge not over waterway.
PROPOSED IMPROVEMENTS	
(75) Type of Work	Widening of existing bridge or
(76) Length of Structure Improvement	213 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 131
(96) Total Project Cost	\$ 220
(97) Year of Improvement Cost Estimate	2002
(114) Future ADT	156
(115) Year of Future ADT	2007

INSPECTIONS *			
(90) Inspection Date	04/2022		
(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.			

**Team Lead:** Keith Harris, **Inspection Date:** April 21, 2022

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	4523	508	4015	0	0
1080	Delamination/Spall/Patched Area	SF	15	0	15	0	0
1130	Cracking (RC and Other)	SF	1350	0	1350	0	0
1190	Abrasion/Wear (PSC/RC)	SF	2650	0	2650	0	0
(12)							
Unsealed transverse cracks on 4 foot centers. 0.030 inch avg. some reflect through to the bottom of the deck with stains and light efflorescence. All spans have light abrasion/wear Span 1 small spalls on right side of beam 4							
107	Steel Open Girder/Beam	LF	840	252	588	0	0
1000	Corrosion	LF	588	0	588	0	0
515	Steel Protective Coating	SF	6225	0	4430	1045	750
3440	Effectiveness (Steel Protective Coatings)	SF	6225	0	4430	1045	750
(107)							
HBM repainted the beams 5-1-2007. Scattered areas of freckled rust and small areas of peeling paint on all beams.							
205	Reinforced Concrete Column	EA	6	3	1	2	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
1090	Exposed Rebar	EA	2	0	0	2	0
(205)							
Bent 3 left column has a small spall Bent 3, right column, spalls exposed rebar. Bent 4 Left column has spall with exposed rebar							
215	Reinforced Concrete Abutment	LF	57	54	3	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1090	Exposed Rebar	LF	2	0	2	0	0
(215)							
Bent 5 has 2 exposed rebar and 1 delam.							
234	Reinforced Concrete Pier Cap	LF	60	57	3	0	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
(234)							
Bent 3 cap back face has small spall, and bent 3 cap bottom right side has delam. Bent 3 cap right side has small spall with exposed rebar.							

**Location: 1.4 M N US 70**

**Team Lead:** Keith Harris, **Inspection Date:** April 21, 2022

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
303	Assembly Joint with Seal	LF	123	123	0	0	0
311	Movable Bearing	EA	16	16	0	0	0
313	Fixed Bearing	EA	16	16	0	0	0
330	Metal Bridge Railing	LF	425	200	225	0	0
7000 (330)	Damage  Metal bridge rails are damaged from tractor implements	LF	225	0	225	0	0
331	Reinforced Concrete Bridge Railing	LF	425	388	35	2	0
1080	Delamination/Spall/Patched Area	LF	2	0	0	2	0
1130 (331)	Cracking (RC and Other)  Concrete bridge railing has scattered cracks. Span 2 at bent 2 spall on left rail	LF	35	0	35	0	0





Elevation



Approach





Deck overview



Span 3 soffit view





Bent 5 exposed rebar



Span 2 freckled rust on bottom flanges





Typical paint condition



Bent 4 Left column has spall with exposed rebar



## Maintenance Needs

**Date Reported:** 05/22/2012  
**Priority:** C - Important  
**Type of Work:** Repair  
**Status:** Monitor  
**Inspection Direction** S to N  
**Component:** 331 - Reinforced Concrete Bridge Railing

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### Deficiency Description

Left concrete end post at both abutment and both Bridge rails on spans 1 and 2 have traffic damage.  
Span 2 at bent 2 left rail is spalled from traffic impact

### Remarks

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Left end post span 1 has spalls with exposed rebar.



Left end post span 1 has spalls with exposed rebar.





**Bridge #03653(Routine)**  
**CR308-K Northcutt over I-40 LOG 179.34**

**Location: 1.4 M N US 70**

**Team Lead: Keith Harris Inspection Date: April 21, 2022**





Left concrete end post at South abutment and both Bridge rails on spans 1 and 2 have traffic damage.



Span 2 at bent 2 left rail is spalled from traffic impact





Bridge #03653(Routine)  
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Location: 1.4 M N US 70

Team Lead: Keith Harris Inspection Date: April 21, 2022

Date Reported: 05/22/2012  
Priority: C - Important  
Type of Work: Repair  
Status: Monitor  
Inspection Direction S to N  
Component: 12 - Reinforced Concrete Deck

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#### Deficiency Description

Deck has large unsealed up to 0.030 inch wide.

#### Remarks

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Span 3 unsealed cracks up to 0.030"

**Date Reported:** 05/22/2012  
**Priority:** D- Routine  
**Type of Work:** Repair  
**Status:** Monitor  
**Inspection Direction** S to N  
**Component:** 205 - Reinforced Concrete Column

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**Deficiency Description**

Bent 3 column 2 and bent 4 column 1 have spalls with exposed rebar.

**Remarks**

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Bent 3 right column has spalls with exposed rebar.



Bent 3, right column has spalls with exposed rebar





**Bridge #03653**(Routine)  
**CR308-K Northcutt over I-40 LOG 179.34**

**Location: 1.4 M N US 70**

**Team Lead:** Keith Harris **Inspection Date:** April 21, 2022

**Inspection Comments**

Job #6686, Drawing #11992 for layout. Form IIIB attached

Logged Northbound.