



Latitude:34.80209, Longitude:-91.73266

Route:46 Section:00 Log:2.239

Arnold Road ID:43xPAUSCHERTRDx1xA, Arnold Log mile:1.416

District 06, Lonoke County

Owner: 1-State Highway Agency



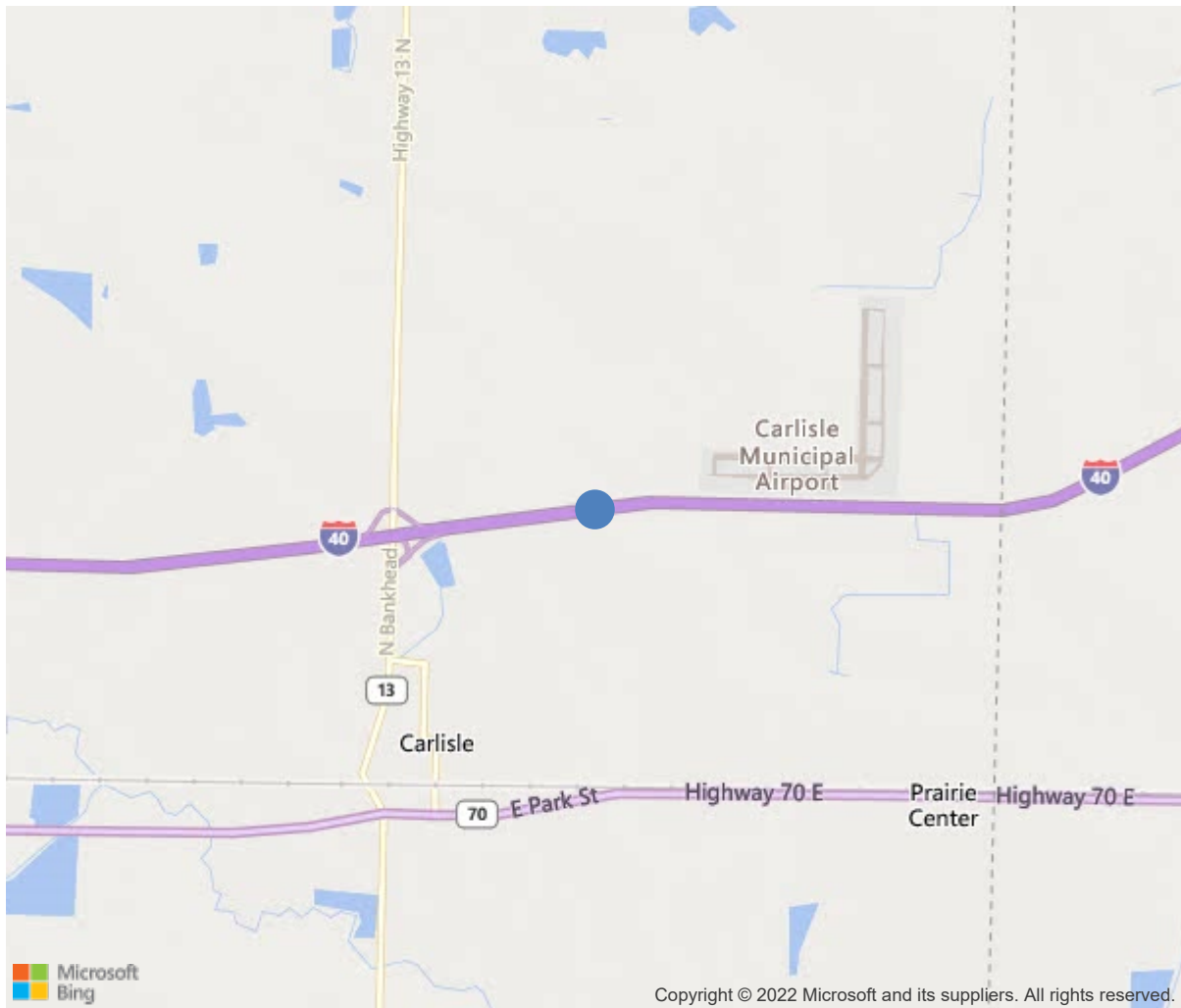
Bridge #03656(Routine)

CR46-K Pauschert over I 40-SEC 41LOG 183.54

Location: 1.0 MI E SH 13 & I-40

Team Lead: Bryan Saunders Inspection Date: July 19, 2022

1.0 MI E SH 13 & I-40



34.80209, -91.73266

Inspection Direction : S to N



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Location: 1.0 MI E SH 13 & I-40

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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03656
(5) Inventory Route	46
(2) Highway Agency District	06
(3) County Code	85-Lonoke County, Arkansas
(4) Place Code	0
(6) Features Intersected	I 40-SEC 41LOG 183.54
(7) Facility Carried	CR46-K Pauschert
(9) Location	1.0 MI E SH 13 & I-40
(11) Mile Point	2.239 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.80209
(17) Longitude	-91.73266
(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	960
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	6 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	67 ft
(49) Structure Length	216 ft
(50) Curb or Sidewalk Width	
Left	1 ft
Right	1 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	28.3 ft
(32) Approach Roadway Width (W/Shoulders)	20 ft
(33) Bridge Median	0-No median
(34) Skew	9 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	26.6 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	16 ft
Ref:	
(55) Min Lat Underclear RT	10 ft
Ref:	
(56) Min Lat Underclear LT	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	5
(59) Superstructure	7
(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	46
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	4
Rating	28
(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	5
(69) Clearances, Vertical/Horizontal	4
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	7
(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	Bridge rehabilitation because
(76) Length of Structure Improvement	216 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 275
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	146
(115) Year of Future ADT	2007

INSPECTIONS *			
(90) Inspection Date			07/2022
(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.			



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	4708	1863	1613	1232	0
1080	Delamination/Spall/Patched Area	SF	4	0	4	0	0
1090	Exposed Rebar	SF	15	0	8	7	0
1120	Efflorescence/Rust Staining	SF	455	0	455	0	0
1130	Cracking (RC and Other)	SF	2125	0	900	1225	0
1190	Abrasion/Wear (PSC/RC)	SF	246	0	246	0	0
(12)	Deck has transverse and longitudinal unsealed cracks. Spaced 12 to 18 inches apart. Width 0.040 to 0.060 inches. Deck has small spalls with rebar exposed top and sides.						
107	Steel Open Girder/Beam	LF	1070	986	84	0	0
1000	Corrosion	LF	84	0	84	0	0
515	Steel Protective Coating	SF	8721	1	8000	720	0
3440	Effectiveness (Steel Protective Coatings)	SF	8000	0	8000	0	0
3420	Peeling/Bubbling/Cracking	SF	720	0	0	720	0
(107)	All beams have areas of scattered surface rust on web and flanges. Bent 3 beam 1 laminated rust in the haunch (107-515) Protective coating has peeling bubbling and cracking in all spans						
205	Reinforced Concrete Column	EA	6	3	3	0	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
1090	Exposed Rebar	EA	2	0	2	0	0
(205)	Bent 2 columns 1&2 have small spalls with exposed rebar, bent 4 column 2 small spall.						
215	Reinforced Concrete Abutment	LF	60	54	6	0	0
1130	Cracking (RC and Other)	LF	6	0	6	0	0
(215)	Small cracks in both abutments.						
234	Reinforced Concrete Pier Cap	LF	68	67	1	0	0
1130	Cracking (RC and Other)	LF	1	0	1	0	0
303	Assembly Joint with Seal	LF	143	143	0	0	0



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
311	Movable Bearing	EA	20	20	0	0	0
313	Fixed Bearing	EA	20	20	0	0	0
330	Metal Bridge Railing	LF	428	428	0	0	0
331	Reinforced Concrete Bridge Railing	LF	428	404	24	0	0
1130	Cracking (RC and Other)	LF	24	0	24	0	0
(331)							
	Scattered cracks in both rails						



Approach looking north



Soffit view



Deck view



Bent 3 beam 1



Protective coatings span Span 2 scattered areas of surface rust to webs and bottom flanges



Bearings at bent 1 typical condition of most



Void under slope pavement at bent 1



Rebar exposed in span 2



Large cracks in span 2



Approach roadway has settled

Maintenance Needs

Date Reported: 08/24/2010
Priority: C - Important
Type of Work: None
Status: Monitor
Inspection Direction S to N
Component:

Deficiency Description

Deck has transverse and longitudinal unsealed cracks. Spaced 12 to 18 inches apart. Width 0.040 to 0.060 inches. Span 2 Deck has small spalls with rebar exposed.

Remarks





Span 4 transverse and longitudinal cracks up to 0.040"



Deck cracks in span 4

Date Reported: 07/18/2018
Priority: C - Important
Type of Work: None
Status: Monitor
Inspection Direction S to N
Component:

Deficiency Description

Bent 1, right side: erosion action creating a small void under slope pavement and large hole beside the slope pavement

Remarks



Bent 1, right side: erosion action creating a small void under slope pavement and large hole beside the slope pavement



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Inspection Comments

Job #6686, Drawing #11995 for layout.

Approach looking north