



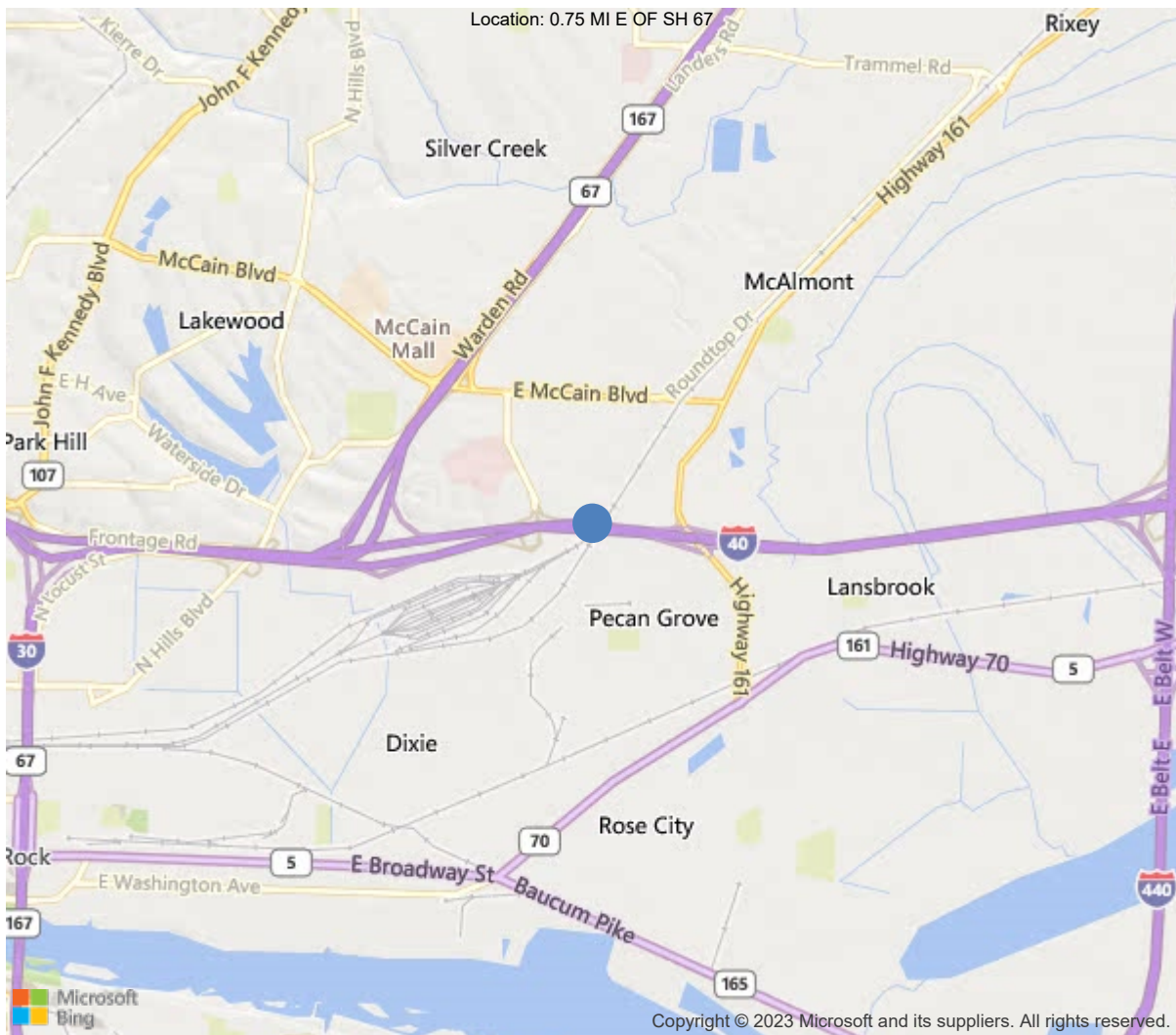
Latitude:34.77980, Longitude:-92.21236

Route:40 Section:33 Log:156.03

Arnold Road ID:60x40x33xB, Arnold Log mile:128.54

District 06, 119 - Pulaski County

Owner: 1 - State Highway Agency



34.77980, -92.21236



Asset #A3193(Routine)

I-40 WB Log 156.03 over UPRR

Location: 0.75 MI E OF SH 67

Team Lead: Keith Harris, Inspection Date: 07/21/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	A3193
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	119 - Pulaski County
(4) Place Code	50450
(6) Features Intersected	UPRR
(7) Facility Carried	I-40 WB Log 156.03
(9) Location	0.75 MI E OF SH 67
(11) Mile Point	156.03 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000040330
(16) Latitude	34.7798
(17) Longitude	-92.21236
(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	12
(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 pl
Type of Membrane	0 - None
Type of Deck Protection	1 - Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	1962
(106) Year Reconstructed	1996
(42) Type of Service	17
On	1 - Highway
Under	7 - Railroad-waterway
(28) Lane	
On	3
Under	0
(29) Average Daily Traffic	26151
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	75 ft
(49) Structure Length	782 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	47.9 ft
(52) Deck Width Out to Out	50.8 ft
(32) Approach Roadway Width (W/Shoulders)	47.9 ft
(33) Bridge Median	0 - No median
(34) Skew	26 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	48.9 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	24.42 ft
Ref:	
(55) Min Lat Underclear RT	37.1 ft
Ref:	
(56) Min Lat Underclear LT	53.9 ft
NAVIGATION DATA	
(38) Navigation Control	0 - No navigation control on w
(111) Pier Protection	1 - Navigation protection not
(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	11 - Urban Principal Arterial
(100) Defense Highway	1 - The inventory route is on
(101) Parallel Structure	L - The left structure of para
(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 par
(20) Toll	3 - On free road. The structu
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	7
(59) Superstructure	7
(60) Substructure	6
(61) Channel & Channel Protection	N
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	6 - MS 18+Mod / HS 20+Mod
(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	
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	4
(69) Clearances, Vertical/Horizontal	9
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	1 - Inspected feature meets current
(36C) Approach Guardrail	1 - Inspected feature meets current
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	8 - Bridge foundations determined t
PROPOSED IMPROVEMENTS	
(75) Type of Work	31 - Replacement of bridge or
(76) Length of Structure Improvement	822 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 247
(96) Total Project Cost	\$ 2453
(97) Year of Improvement Cost Estimate	1999
(114) Future ADT	30460
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	07/21/2022		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
<p>* 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.</p>			



Asset #A3193(Routine)

District: 06, County: 119 - Pulaski County

Team Lead: Keith Harris, Inspection Date: 07/21/2022

General Observation (False)

Job #R60138, Drawing #37398 for layout.

Logged Eastbound.

A-46 - Asset Files

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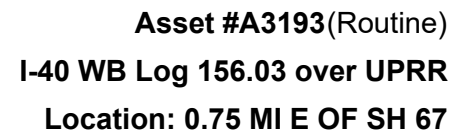
Asset #A3193(Routine)

I-40 WB Log 156.03 over UPRR

Location: 0.75 MI E OF SH 67

Team Lead: Keith Harris, Inspection Date: 07/21/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	39735	34280	5455	0	0
1080	Delamination/Spall/Patched Area	SF	5	0	5	0	0
1130	Cracking (RC and Other)	SF	5450	0	5450	0	0
(12) Scattered small spalls. Unsealed transverse and longitudinal cracks in all spans							
107	Steel Open Girder/Beam	LF	7011	6899	112	0	0
1000	Corrosion	LF	112	0	112	0	0
515	Steel Protective Coating	SF	64641	0	63611	1030	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	63611	0	63611	0	0
3440	Effectiveness (Steel Protective Coatings)	LF	1030	0	0	1030	0
(107) All of the beams are brown with granular rust. Beam ends at bent 2 thru 12 have flaking rust to the bottom web & flange. Abutment 1 beam 5& 6, has flaking rust to lower web and bottom flange, (515-107) All girders have a granular texture							
205	Reinforced Concrete Column	EA	43	27	3	13	0
1130	Cracking (RC and Other)	EA	16	0	3	13	0
(205) Vertical cracks are common in columns 2 and 3 of most bents. Large cracks in the columns of bent 2 columns 2 and 3, bent 3 column 2 and 3, bent 4 column 3, bent 6 columns 2 and 3, bent 7 column 2 and 3, bent 8 column 2, bent 9 column 2 and 3, bent 10 column 2 and 3, bent 11 column 2, bent 12 column 3.							
210	Reinforced Concrete Pier Wall	LF	278	262	16	0	0
1080	Delamination/Spall/Patched Area	LF	5	0	5	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	10	0	10	0	0
(210) Bents 3,4 & 5 have pier wall below columns.							
215	Reinforced Concrete Abutment	LF	167	136	31	0	0
1130	Cracking (RC and Other)	LF	31	0	31	0	0
(215) Small vertical cracks in both abutments. Bent 1 between beams 3 thru 7 has horizontal cracks in the lower part of the abutment.							
234	Reinforced Concrete Pier Cap	LF	598	564	29	5	0
1080	Delamination/Spall/Patched Area	LF	4	0	4	0	0
1090	Exposed Rebar	LF	7	0	2	5	0
1130	Cracking (RC and Other)	LF	23	0	23	0	0
(234) Spalls with exposed rebar in the caps of bents 6,7,8 & 9 Scattered small cracks in several caps.							
301	Pourable Joint Seal	LF	407	207	200	0	0



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
2310	Leakage	LF	200	0	200	0	0
(301) The joint seal at bents 3, 6 and 9 are torn and have loss of bond along the joint armor.							
302	Compression Joint Seal	LF	254	0	254	0	0
2310	Leakage	LF	254	0	254	0	0
(302) Joint seals at Bents 2, 4, 7, 8 and 10 have minor cracks and leaking.							
310	Elastomeric Bearing	EA	216	216	0	0	0
321	Reinforced Concrete Approach Slab	SF	1315	1032	283	0	0
1080	Delamination/Spall/Patched Area	SF	3	0	3	0	0
1130	Cracking (RC and Other)	SF	280	0	280	0	0
(321) Approach slab at bent 1 abutment has a small spall. Both approach slabs have large cracks.							
331	Reinforced Concrete Bridge Railing	LF	1563	1213	350	0	0
1130	Cracking (RC and Other)	LF	350	0	350	0	0
(331) Scattered small vertical cracks in both rails.							

Team Lead: Keith Harris, **Inspection Date:** 07/21/2022

Deck

ELEMENTS		UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	39735	34280	5455	0	0
1080	Delamination/Spall/Patched Area	SF	5	0	5	0	0
1130	Cracking (RC and Other)	SF	5450	0	5450	0	0
(12) Scattered small spalls. Unsealed transverse and longitudinal cracks in all spans							

Team Lead: Keith Harris, **Inspection Date:** 07/21/2022

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	7011	6899	112	0	0
1000	Corrosion	LF	112	0	112	0	0
515	Steel Protective Coating	SF	64641	0	63611	1030	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	63611	0	63611	0	0
3440	Effectiveness (Steel Protective Coatings)	LF	1030	0	0	1030	0
(107) All of the beams are brown with granular rust. Beam ends at bent 2 thru 12 have flaking rust to the bottom web & flange. Abutment 1 beam 5& 6, has flaking rust to lower web and bottom flange,							
(515-107) All girders have a granular texture							

Team Lead: Keith Harris, **Inspection Date:** 07/21/2022

Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	43	27	3	13	0
1130	Cracking (RC and Other)	EA	16	0	3	13	0
(205) Vertical cracks are common in columns 2 and 3 of most bents. Large cracks in the columns of bent 2 columns 2 and 3, bent 3 column 2 and 3, bent 4 column 3, bent 6 columns 2 and 3, bent 7 column 2 and 3, bent 8 column 2, bent 9 column 2 and 3, bent 10 column 2 and 3, bent 11 column 2, bent 12 column 3.							
210	Reinforced Concrete Pier Wall	LF	278	262	16	0	0
1080	Delamination/Spall/Patched Area	LF	5	0	5	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	10	0	10	0	0
(210) Bents 3,4 & 5 have pier wall below columns.							
215	Reinforced Concrete Abutment	LF	167	136	31	0	0
1130	Cracking (RC and Other)	LF	31	0	31	0	0
(215) Small vertical cracks in both abutments. Bent 1 between beams 3 thru 7 has horizontal cracks in the lower part of the abutment.							
234	Reinforced Concrete Pier Cap	LF	598	564	29	5	0
1080	Delamination/Spall/Patched Area	LF	4	0	4	0	0
1090	Exposed Rebar	LF	7	0	2	5	0
1130	Cracking (RC and Other)	LF	23	0	23	0	0
(234) Spalls with exposed rebar in the caps of bents 6,7,8 & 9 Scattered small cracks in several caps.							



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Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Elevation



Approach



Deck overview



Soffit view



Soffit views



Bent 7 spalls with exposed rebar



Elevation



Spalls with exposed rebar on bottom of bent 3.
Large cracks in columns 2&3



Bent 1, girder 6: laminating rust and active corrosion to the bottom flange and lower web. Common girder 5



Bent 3 map cracking and exposed rebar in pier wall



Bent 10 delam on ahead face



Bent 1: multiple areas of joint seal missing allowing water to flow through to the steel girders.

Maintenance Needs

Date Reported: 07/20/2011
Priority: C - Important
Type of Work: Repair (General)
Status: Monitor
Component: Deck

Deficiency Description

Deck has large unsealed Longitudinal and transverse cracks avg. width 0.040

Remarks



Span 10 typical deck cracking



Asset #A3193(Routine)

I-40 WB Log 156.03 over UPRR

Location: 0.75 MI E OF SH 67

Team Lead: Keith Harris, **Inspection Date:** 07/21/2022

Date Reported: 01/28/2019
Priority: C - Important
Type of Work: Repair (General)
Status: Monitor
Component: Element

Deficiency Description

Large cracks in the columns of bent 2 column 3, bent 3 column 3, bent 7 column 2, bent 8 column 2, bent 9 column 2, bent 10 column 2, bent 11 column 2.

Remarks



Bent 7, column 2: large vertical crack running the entire length of the column.



Bent 2 column 3



Bent 3 column 3



Bent 7, column 2: large vertical crack running the entire length of the column.



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Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	
A-56 - Joint Cleaning/Flushing Needed	
A-57 - Beam End and Bearing Paint Needed	
A-58 - Cap Cleaning/Flushing Needed	
A-59 - Joint Repair Needed	
A-60 - Full Beam Painting Needed	
A-61 - Polymer Overlay Advised	
A-62 - Hydro and LMC Advised	



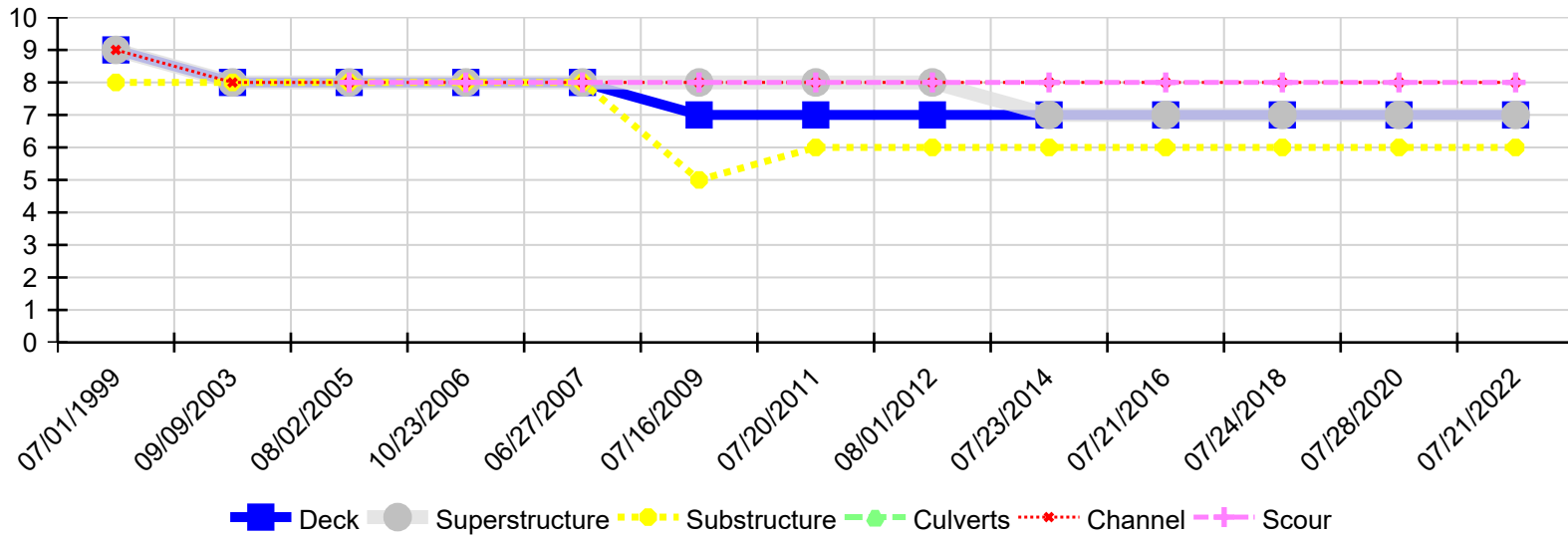
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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
07/21/2022	7	7	6	N	8	8
07/28/2020	7	7	6	N	8	8
07/24/2018	7	7	6	N	8	8
07/21/2016	7	7	6	N	8	8
07/23/2014	7	7	6	N	8	8
08/01/2012	7	8	6	N	8	8
07/20/2011	7	8	6	N	8	8
07/16/2009	7	8	5	N	8	8
06/27/2007	8	8	8	N	8	8
10/23/2006	8	8	8	N	8	8
08/02/2005	8	8	8	N	8	8
09/09/2003	8	8	8	N	8	N
07/01/1999	9	9	8	N	9	N