



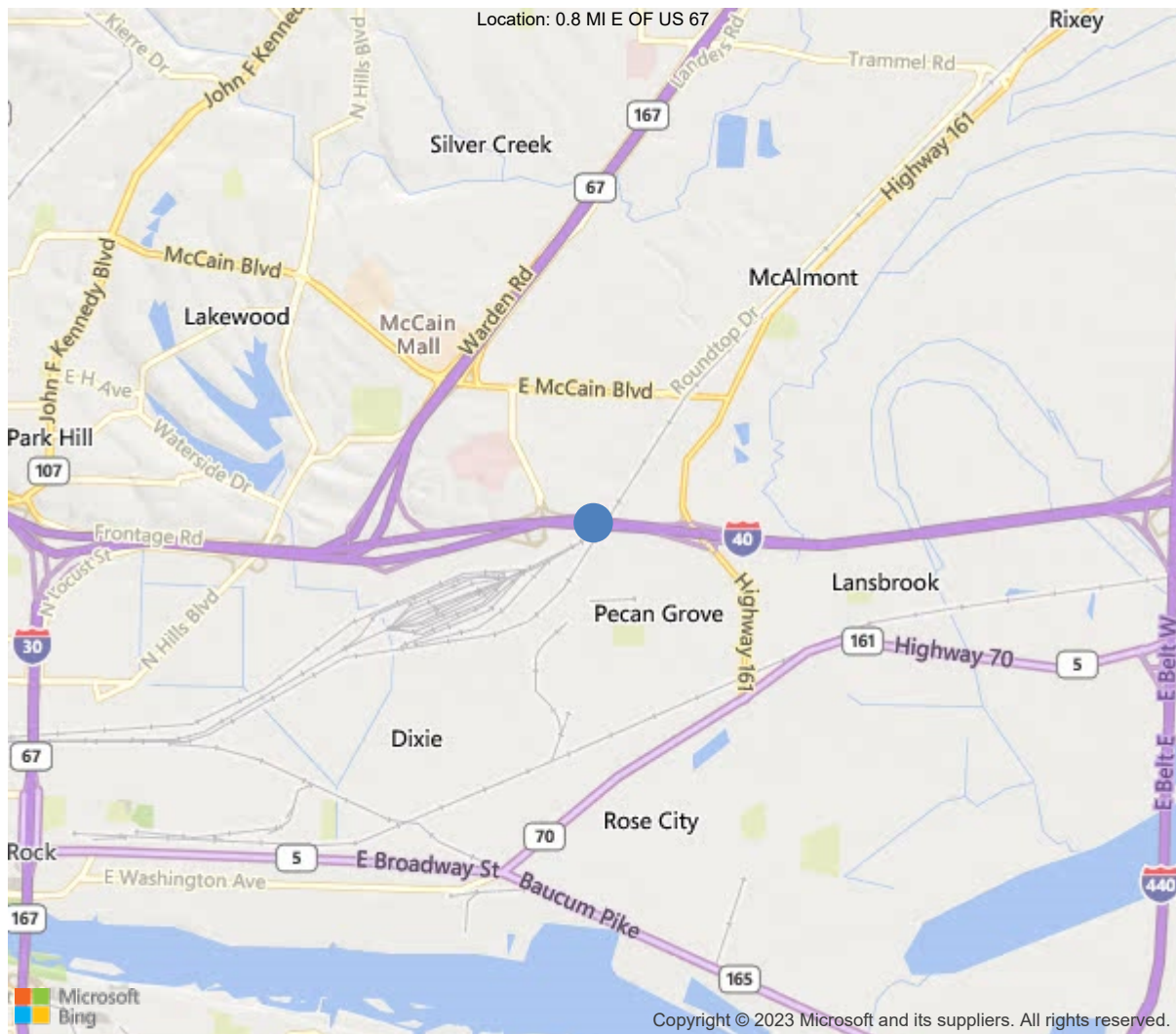
Latitude:34.77955, Longitude:-92.21256

Route:40 Section:33 Log:156.02

Arnold Road ID:60x40x33xA, Arnold Log mile:155.944

District 06, 119 - Pulaski County

Owner: 1 - State Highway Agency



34.77955, -92.21256



Asset #B3193(Routine)

I-40 EB Log 156.02 over UPRR

Location: 0.8 MI E OF US 67

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

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	B3193
(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 EB Log 156.02
(9) Location	0.8 MI E OF US 67
(11) Mile Point	156.02 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000040330
(16) Latitude	34.77955
(17) Longitude	-92.21256
(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	0 - None
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	99.9 ft
(54) Min Vert Underclear	24.58 ft
Ref:	
(55) Min Lat Underclear RT	39 ft
Ref:	
(56) Min Lat Underclear LT	0 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	R - The right structure of par
(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			
* 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.			



Asset #B3193(Routine)

District: 06, County: 119 - Pulaski County

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

General Observation (False)

Job #R60138, Drawing #37399 for Layout.

Logged Eastbound.

A-46 - Asset Files

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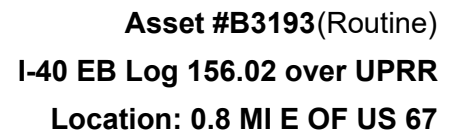
Asset #B3193(Routine)

I-40 EB Log 156.02 over UPRR

Location: 0.8 MI E OF US 67

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

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	39735	34065	5670	0	0
1080	Delamination/Spall/Patched Area	SF	10	0	10	0	0
1130	Cracking (RC and Other)	SF	5660	0	5660	0	0
(12) Transverse and longitudinal cracks unsealed. Range from 0.020-0.035							
107	Steel Open Girder/Beam	LF	7011	6847	164	0	0
1000	Corrosion	LF	164	0	164	0	0
515	Steel Protective Coating	SF	64641	0	62746	1895	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	62746	0	62746	0	0
3440	Effectiveness (Steel Protective Coatings)	LF	1895	0	0	1895	0
(107) All of the beams are brown with granular rust. Left side of beam 6 at bent 1 abutment has flaking rust to lower web and flange. Beams ends at bents 2 thru 12 have areas of flaking rust.							
205	Reinforced Concrete Column	EA	43	28	1	14	0
1090	Exposed Rebar	EA	2	0	0	2	0
1130	Cracking (RC and Other)	EA	13	0	1	12	0
(205) Spall with exposed rebar at bent 2 column 2 and bent 11 column 2. Bent 2, column 3 full height crack. Bent 3, columns 2 and 3 vertical cracks. Bent 4, columns 2 and 3 large vertical cracks. Bent 6, column 2 crack on bottom 2 foot and vertical crack on column 3 Bent 7, column 2 and 3 large vertical cracks. Bent 8, column 2 and 3 vertical cracks. Bent 9 column 2 vertical cracks Bent 10 column 3 has large vertical crack. Bent 12 column 3 large vertical crack.							
210	Reinforced Concrete Pier Wall	LF	278	243	34	1	0
1010	Cracking	LF	9	0	9	0	0
1090	Exposed Rebar	LF	26	0	25	1	0
(210) Bents 3,4 & 5 have pier wall below columns.							
215	Reinforced Concrete Abutment	LF	167	107	47	13	0
1080	Delamination/Spall/Patched Area	LF	13	0	0	13	0
1130	Cracking (RC and Other)	LF	47	0	47	0	0
(215) Spall on bearing pedestal at beam 5 East abutment. Small vertical cracks in both abutments. Bent 13 east abutment spall filled with asphalt in top of back wall.							
234	Reinforced Concrete Pier Cap	LF	598	576	22	0	0



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1090	Exposed Rebar	LF	6	0	6	0	0
1130	Cracking (RC and Other)	LF	16	0	16	0	0
(234) Spalls with exposed rebar on the sides and bottom of the caps at bents 2, 4, 9, 10 and 11. Scattered small cracks in several caps.							
301	Pourable Joint Seal	LF	407	201	200	0	6
2310	Leakage	LF	206	0	200	0	6
(301) Joint seals are torn and leaking. Bent 1: approximately 6 foot of joint seal missing, allowing water to freely flow through							
302	Compression Joint Seal	LF	254	0	248	6	0
2310	Leakage	LF	248	0	248	0	0
2360	Adjacent Deck or Header	LF	6	0	0	6	0
(302) Joints are torn and leaking. twelve foot of road iron missing at bent 13.							
310	Elastomeric Bearing	EA	216	216	0	0	0
321	Reinforced Concrete Approach Slab	SF	1315	940	375	0	0
1080	Delamination/Spall/Patched Area	SF	1	0	1	0	0
1130	Cracking (RC and Other)	SF	374	0	374	0	0
(321) Both approach slab have cracks and the approach slab at bent 1 abutment has settled and has a small spall filled asphalt..							
331	Reinforced Concrete Bridge Railing	LF	1563	1247	316	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	315	0	315	0	0
(331) Small vertical cracks in both rails.							

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

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	39735	34065	5670	0	0
1080	Delamination/Spall/Patched Area	SF	10	0	10	0	0
1130	Cracking (RC and Other)	SF	5660	0	5660	0	0
(12) Transverse and longitudinal cracks unsealed. Range from 0.020-0.035							

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	6847	164	0	0
1000	Corrosion	LF	164	0	164	0	0
515	Steel Protective Coating	SF	64641	0	62746	1895	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	62746	0	62746	0	0
3440	Effectiveness (Steel Protective Coatings)	LF	1895	0	0	1895	0
(107) All of the beams are brown with granular rust. Left side of beam 6 at bent 1 abutment has flaking rust to lower web and flange. Beams ends at bents 2 thru 12 have areas of flaking rust.							

Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	43	28	1	14	0
1090	Exposed Rebar	EA	2	0	0	2	0
1130	Cracking (RC and Other)	EA	13	0	1	12	0
(205) Spall with exposed rebar at bent 2 column 2 and bent 11 column 2. Bent 2, column 3 full height crack. Bent 3, columns 2 and 3 vertical cracks. Bent 4, columns 2 and 3 large vertical cracks. Bent 6, column 2 crack on bottom 2 foot and vertical crack on column 3 Bent 7, column 2 and 3 large vertical cracks. Bent 8, column 2 and 3 vertical cracks. Bent 9 column 2 vertical cracks Bent 10 column 3 has large vertical crack. Bent 12 column 3 large vertical crack.							
210	Reinforced Concrete Pier Wall	LF	278	243	34	1	0
1010	Cracking	LF	9	0	9	0	0
1090	Exposed Rebar	LF	26	0	25	1	0
(210) Bents 3,4 & 5 have pier wall below columns.							
215	Reinforced Concrete Abutment	LF	167	107	47	13	0
1080	Delamination/Spall/Patched Area	LF	13	0	0	13	0
1130	Cracking (RC and Other)	LF	47	0	47	0	0
(215) Spall on bearing pedestal at beam 5 East abutment. Small vertical cracks in both abutments. Bent 13 east abutment spall filled with asphalt in top of back wall.							
234	Reinforced Concrete Pier Cap	LF	598	576	22	0	0
1090	Exposed Rebar	LF	6	0	6	0	0
1130	Cracking (RC and Other)	LF	16	0	16	0	0
(234) Spalls with exposed rebar on the sides and bottom of the caps at bents 2, 4, 9, 10 and 11. Scattered small cracks in several caps.							



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Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
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Elevation



Approach



Deck overview



Soffit view



Soffit view



Elevation



Small spalls in span 4



Bent 6 delams on ahead face



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



Bent 2 column 2 exposed rebar



Bent 8 cracks in cross brace



Bent 4 exposed rebar on bottom right side of pier wall



Bent 2 cracks in cross brace (pier wall)



Bent 10 exposed rebar on bottom of cap next to column 2.



Bent 1: approximately 6 foot of joint seal missing, allowing water to freely flow through

Maintenance Needs

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

Deficiency Description

Spall with exposed rebar at bent 2 column 2 and bent 11 column 2.
Bent 2, column 3 full height crack.
Bent 3, columns 2 and 3 vertical cracks.
Bent 4, columns 2 and 3 large vertical cracks.
Bent 6, column 2 crack on bottom 2 foot and vertical crack on column 3
Bent 7, column 2 and 3 large vertical cracks.
Bent 8, column 2 and 3 vertical cracks.
Bent 9 column 2 vertical cracks
Bent 10 column 3 has large vertical crack.
Bent 12 column 3 large vertical crack.

Remarks



Bent. 6 , column 3: large vertical crack.



Bent 7 column 3 crack

Date Reported: 07/31/2020
Priority: C - Important
Type of Work: Repair (General)
Status: Monitor
Component: Approach

Deficiency Description

East abutment has spalls at top of back wall in the travel lanes

Remarks



12' of spalls in top of back wall at bent 13



East abutment has spalls at top of back wall.

Date Reported: 07/21/2022
Priority: D- Routine
Type of Work: Repair (General)
Status: Open
Component: Substructure

Deficiency Description

Bent 13 spall under beam 5 at anchor bolt.

Remarks



Bent 13: abutment beam seat pedestal has a large spall adjacent to an anchor bolt.



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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	



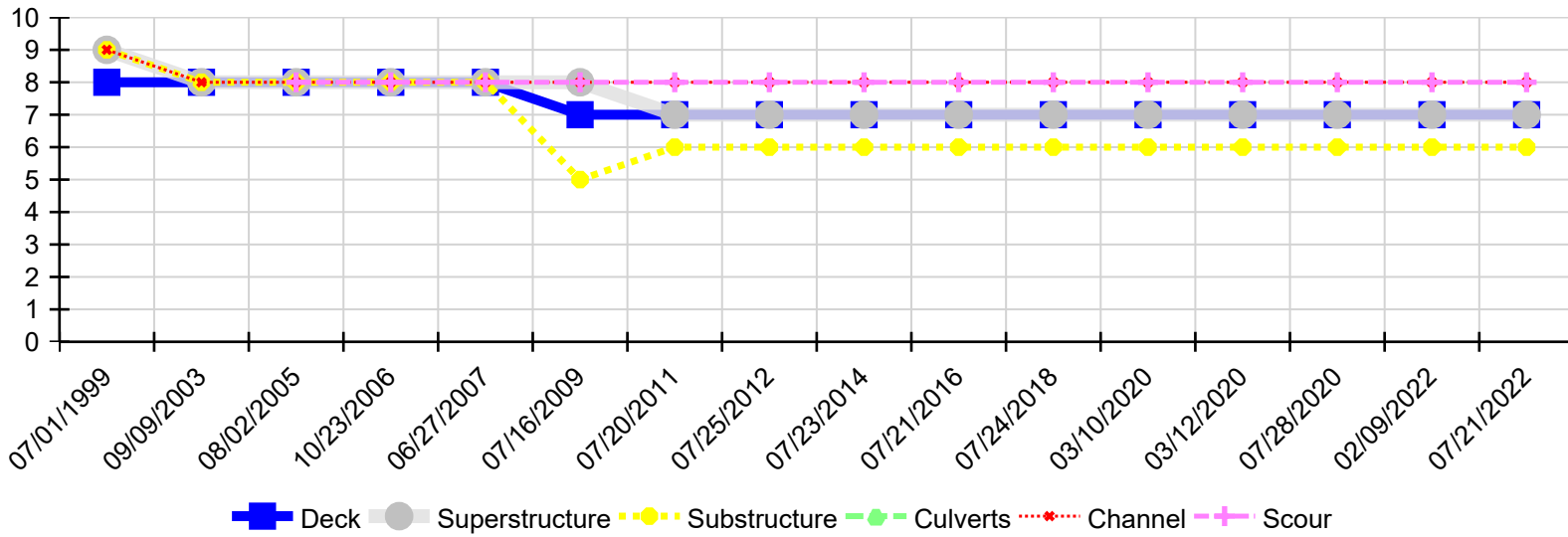
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Team Lead: Keith Harris, Inspection Date: 07/21/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
07/21/2022	7	7	6	N	8	8
02/09/2022	7	7	6	N	8	8
07/28/2020	7	7	6	N	8	8
03/12/2020	7	7	6	N	8	8
03/10/2020	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
07/25/2012	7	7	6	N	8	8
07/20/2011	7	7	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	8	9	9	N	9	N