



Latitude:34.81897, Longitude:-91.54634

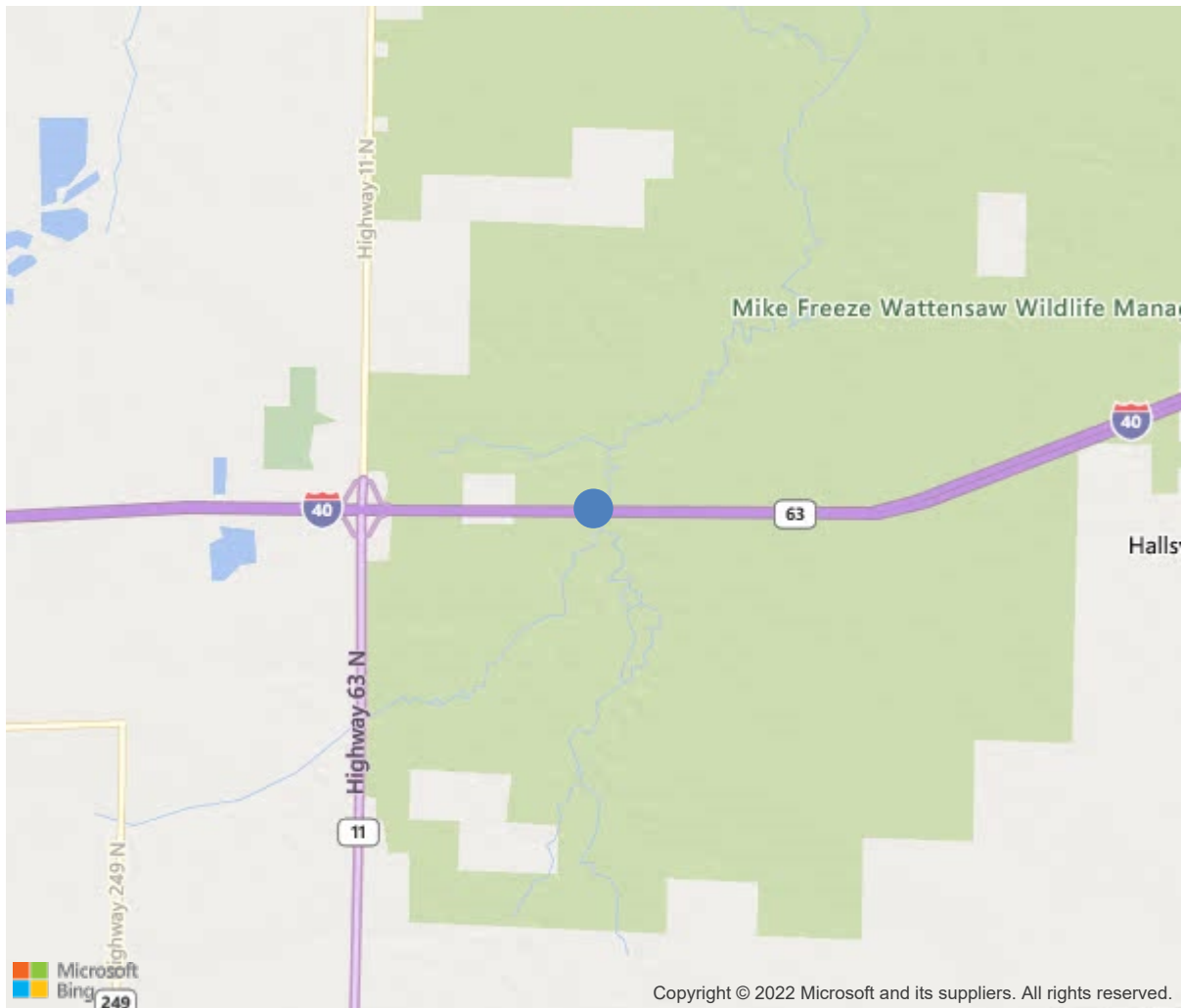
Route:40 Section:42 Log:194.39

Arnold Road ID:59x40x42xB, Arnold Log mile:90.195

District 06, Prairie County

Owner: 1-State Highway Agency

1.2 MI EAST JCT SH 11



34.81897, -91.54634

Inspection Direction : W to E



Bridge #A3709(Routine, Underwater type 2)

I-40 WB Log194.39 over HURRICANE CREEK

Location: 1.2 MI EAST JCT SH 11

Team Lead: Keith Harris Inspection Date: August 25, 2021

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	A3709
(5) Inventory Route	40
(2) Highway Agency District	06
(3) County Code	117-Prairie County, Arkansas
(4) Place Code	0
(6) Features Intersected	HURRICANE CREEK
(7) Facility Carried	I-40 WB Log194.39
(9) Location	1.2 MI EAST JCT SH 11
(11) Mile Point	194.39 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000040420
(16) Latitude	34.81897
(17) Longitude	-91.54634
(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	5
(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	1965
(106) Year Reconstructed	0
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	18000
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	29 ft
(49) Structure Length	145 ft
(50) Curb or Sidewalk Width	
Left	1 ft
Right	1 ft
(51) Bridge Roadway Width Curb to Curb	40 ft
(52) Deck Width Out to Out	44.6 ft
(32) Approach Roadway Width (W/Shoulders)	42 ft
(33) Bridge Median	0-No median
(34) Skew	30 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	42.3 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	5
(59) Superstructure	5
(60) Substructure	5
(61) Channel & Channel Protection	7
(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	5
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	5
(68) Deck Geometry	7
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0-Inspected feature does not meet cur
(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	17450
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	08/2021		
(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.			



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I-40 WB Log194.39 over HURRICANE CREEK

Location: 1.2 MI EAST JCT SH 11

Team Lead: Keith Harris, Inspection Date: August 25, 2021

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	6126	1321	3224	1581	0
1080	Delamination/Spall/Patched Area	SF	284	0	124	160	0
1090	Exposed Rebar	SF	8	0	0	8	0
1120	Efflorescence/Rust Staining	SF	525	0	0	525	0
1130	Cracking (RC and Other)	SF	1765	0	1300	465	0
1190	Abrasion/Wear (PSC/RC)	SF	2223	0	1800	423	0
(38)							
All spans have patches filled with asphalt. Span 1 has on open spall in the outside lane, Span 3 has a large spall that was patched with asphalt but is deteriorating and is exposing steel. Span 2 has multiple spalls and spalls filled with asphalt that is deteriorating. Span 5 at bent 5 has a spall with exposed rebar in travel lane. All spans have large cracks, sealed and unsealed on the deck surface and all spans have longitudinal cracks with rust stains and efflorescence build up on the soffit. Scattered delams are present on the bottom of spans 2,3,4&5.							
215	Reinforced Concrete Abutment	LF	115	109	4	2	0
1090	Exposed Rebar	LF	2	0	0	2	0
1130	Cracking (RC and Other)	LF	4	0	4	0	0
(215)							
Bent 6 has Spalls with exposed rebar and two vertical cracks.							
227	Reinforced Concrete Pile	EA	28	7	21	0	0
1190	Abrasion/Wear (PSC/RC)	EA	21	0	21	0	0
(227)							
The pile at bents 3,4 and 5 have surface abrasion at the bottom.							
Bent 6 has one exposed pile due to erosion action. State forces have filled erosion hole.							
234	Reinforced Concrete Pier Cap	LF	202	146	22	34	0
1080	Delamination/Spall/Patched Area	LF	23	0	6	17	0
1090	Exposed Rebar	LF	31	0	16	15	0
1120	Efflorescence/Rust Staining	LF	2	0	0	2	0
(234)							
Bent 2 at piles 2 and 3, Bent 2 at pile 5 on the bottom, exposed rebar and on the ahead face at pile 5 on cap. Bent 3, left end spalled with exposed rebar and efflorescence. Large spall on cap between piles 2 and 3. Bent 4 back side, left end and Bent 4 ahead face, spalls with exposed rebar. Bent 5 back side at pile 6, Bent 5, ahead face at pile 4, Spalls with exposed rebar.							
301	Pourable Joint Seal	LF	254	0	0	0	254
2350	Debris Impaction	LF	127	0	0	0	127



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
2360	Adjacent Deck or Header	LF	127	0	0	0	127
(301)	Most of the joint seal material is missing. All of the joints have debris (non compressible materials) and small Spalls along the adjacent deck.						
321	Reinforced Concrete Approach Slab	SF	1752	1587	165	0	0
1130	Cracking (RC and Other)	SF	165	0	165	0	0
(321)	The approach slab at Bent 6 has large transverse cracks.						
330	Metal Bridge Railing	LF	290	270	12	8	0
7000	Damage	LF	20	0	12	8	0
(330)	The aluminum rail has been damaged in span 1 on the left and span 5 on the right.						
331	Reinforced Concrete Bridge Railing	LF	290	241	49	0	0
1080	Delamination/Spall/Patched Area	LF	3	0	3	0	0
1130	Cracking (RC and Other)	LF	46	0	46	0	0



Elevation



Deck overview



Span 5 large spall with exposed rebar and delam



Under view



Bent 6 exposed rebar



Bent 5 spalls with exposed rebar on ahead face



Approach

Maintenance Needs

Date Reported: 08/10/2017
Priority: C - Important
Type of Work: None
Status: Monitor
Inspection Direction W to E
Component:

Deficiency Description

Spalls in the deck of all spans.

Remarks



Span 3: large open spall that was patched with asphalt has deteriorated exposing steel



Span 2: Multiple spalls and spalls filled with asphalt that is deteriorating



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Span 1: open spall in outside lane



Span 5 at bent 5: spall with exposed rebar in travel lane



Span 2 spalls and spalls filled with asphalt



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I-40 WB Log194.39 over HURRICANE CREEK

Location: 1.2 MI EAST JCT SH 11

Team Lead: Keith Harris **Inspection Date:** August 25, 2021



Span 4&5 spalls

Date Reported: 08/14/2019
Priority: B - Pressing; 6 month completion goal
Type of Work: None
Status: Repair Documented
Inspection Direction W to E
Component:

Deficiency Description

Span 5 at bent 5: spall with exposed rebar in the inside travel lane.
Span 1: open spall in outside lane

Remarks

Spalls have been filled with asphalt



Span 1: open spall in outside lane



Span 3: large open spall that was patched with asphalt has deteriorated exposing steel

Date Reported: 08/14/2019
Priority: C - Important
Type of Work: None
Status: Monitor
Inspection Direction W to E
Component:

Deficiency Description

Left side of bent 2 is spalled and cracked with efflorescence build up
Bent 3: Large spall with exposed rebar and large delam above pile 2 at the key way

Remarks



Left side of bent 2 is spalled and cracked with efflorescence build up



Bent 3: Large spall with exposed rebar and large delam above pile 2 at the key way



Bent 3: Large spall with exposed rebar and large delam above pile 2 at the key way



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Location: 1.2 MI EAST JCT SH 11

Team Lead: Keith Harris Inspection Date: August 25, 2021

Date Reported: 08/14/2019
Priority: C - Important
Type of Work: Clean
Status: Assigned
Inspection Direction W to E
Component:

Deficiency Description

Left gutter line full of debris

Remarks

Assigned Prairie 06591 10/8/19



Left gutter line full of debris



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Location: 1.2 MI EAST JCT SH 11

Team Lead: Keith Harris **Inspection Date:** August 25, 2021

Date Reported: 08/25/2021
Priority: C - Important
Type of Work: Repair
Status: Open
Inspection Direction W to E
Component:

Deficiency Description

Span 1 left bridge rail is damaged from traffic impact

Remarks



Span 1 left bridge rail has damaged from traffic impact



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Location: 1.2 MI EAST JCT SH 11

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Inspection Comments

AHTD Job 6717, 12737

Boat may be needed.

Logged East bound.