



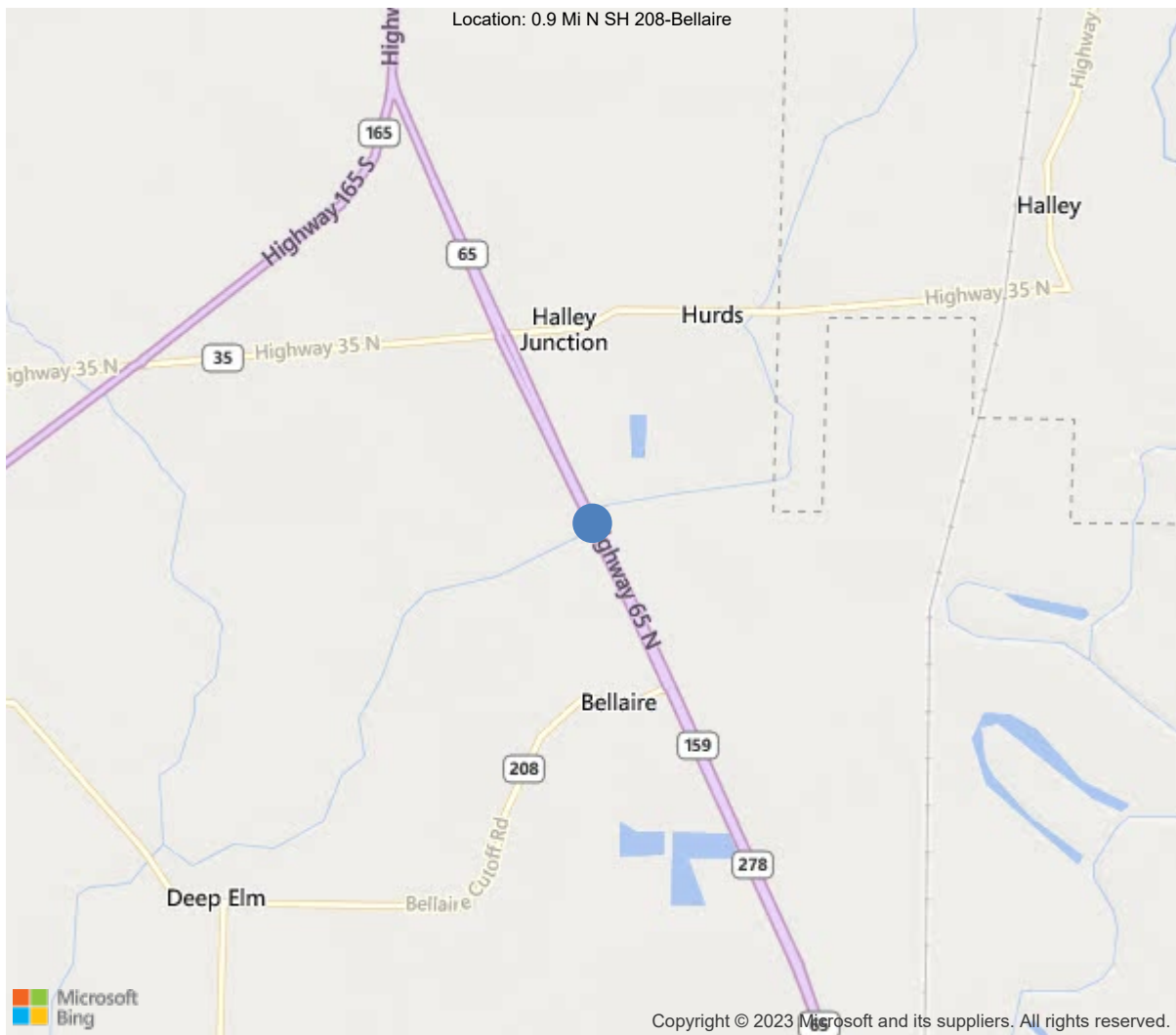
Latitude:33.51851, Longitude:-91.36662

Route:65 Section:20 Log:3.3

Arnold Road ID:9x65x20xA, Arnold Log mile:3.321

District 02, 17 - Chicot County

Owner: 1 - State Highway Agency



33.51851, -91.36662



Asset #02069(Routine, Underwater type 2)

US 65-20 LM 3.30 over Black Pond

Location: 0.9 Mi N SH 208-Bellaire

Team Lead: Sharon Hooks, Inspection Date: 03/29/2021

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	02069
(5) Inventory Route	1
(2) Highway Agency District	02 - District 02
(3) County Code	17 - Chicot County
(4) Place Code	0
(6) Features Intersected	Black Pond
(7) Facility Carried	US 65-20 LM 3.30
(9) Location	0.9 Mi N SH 208-Bellaire
(11) Mile Point	3.3 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000065200
(16) Latitude	33.5185058325075
(17) Longitude	-91.3666180195746
(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	3
(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	1938
(106) Year Reconstructed	1989
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	4
Under	0
(29) Average Daily Traffic	6200
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	10 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	50 ft
(49) Structure Length	152.2 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	71.9 ft
(52) Deck Width Out to Out	74.8 ft
(32) Approach Roadway Width (W/Shoulders)	74.1 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	35.1 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 w
(111) Pier Protection	5 - None present but re-evalua
(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	2 - Rural Principal Arterial -
(100) Defense Highway	2 - The inventory route is on
(101) Parallel Structure	N - No parallel structure exis
(102) Direction of Traffic	2 - 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	7
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	5 - MS 18 / HS 20
(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	7
(68) Deck Geometry	9
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(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	5 - Bridge foundations determined t
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	6557
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	03/29/2021		
(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 #02069(Routine, Underwater type 2)

District: 02, County: 17 - Chicot County

Team Lead: Sharon Hooks, Inspection Date: 03/29/2021

General Observation (False)

Bridge is logged from north to south.04-24-2019 GGL-KLR: NBI and element quantities field measured and verified against plans.

A-46 - Asset Files

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Asset #02069(Routine, Underwater type 2)

US 65-20 LM 3.30 over Black Pond

Location: 0.9 Mi N SH 208-Bellaire

Team Lead: Sharon Hooks, Inspection Date: 03/29/2021

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	11225	6747	521	3957	0
1080	Delamination/Spall/Patched Area	SF	6	0	6	0	0
1090	Exposed Rebar	SF	9	0	0	9	0
1130	Cracking (RC and Other)	SF	4463	0	515	3948	0
(12) Deck: 74'-10" wide x 150' long.							
Northbound (left side): All spans have map-cracking with some more prominent transverse and longitudinal cracks - heaviest in outer lane and in Span 1. Some small spalls between Girders 4-5 (from placement of anchors for wall during construction).							
Southbound (right side): Scattered minor longitudinal and transverse cracks, heaviest in Span 3.							
Soffit: Some minor efflorescence reflective of cracking on surface with some spalling and exposed rebar reflective of defects on surface in Bay 4.							
107	Steel Open Girder/Beam	LF	1950	390	1240	320	0
1000	Corrosion	LF	1560	0	1240	320	0
515	Steel Protective Coating	SF	13163	1620	9383	2160	0
3410	Chalking (Steel Protective Coatings)	LF	1013	0	1013	0	0
3440	Effectiveness (Steel Protective Coatings)	LF	10530	0	8370	2160	0
(107) Girders: 13 per span / Span 1-3 (50' per span = 150' total span). Coating: 6.75 square feet per linear feet of girder.							
Scattered light surface corrosion with some light pitting, mostly on bottom of bottom flange. Some corrosion with minor section loss at some hunches and bearing locations. Some dulling and chalking of paint on exterior of outer girders.							
215	Reinforced Concrete Abutment	LF	203	180	14	9	0
1120	Efflorescence/Rust Staining	LF	4	0	4	0	0
1130	Cracking (RC and Other)	LF	19	0	10	9	0
(215) Abutments: 81.5' each + 10' wing (each corner) = 101.5' each / Bents 1 & 4. Some stain on concrete around leaking joint seals. Top of back wall is cracking on both abutments with reflective efflorescence.							
227	Reinforced Concrete Pile	EA	28	18	7	3	0
1130	Cracking (RC and Other)	EA	3	0	0	3	0
1190	Abrasion/Wear (PSC/RC)	EA	7	0	7	0	0
(227) Piling: 14 per bent / Bents 2-3. Bent 2 Piles 8-10: Some horizontal cracking on ahead face of pile - CS3 cracking x 3. Old pile have light abrasive wear from water - CS2 abrasive wear x 7.							
234	Reinforced Concrete Pier Cap	LF	164	160	4	0	0
1080	Delamination/Spall/Patched Area	LF	3	0	3	0	0

Team Lead: Sharon Hooks, **Inspection Date:** 03/29/2021

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1090	Exposed Rebar	LF	1	0	1	0	0
(234) Caps: 82' each / Bents 2-3. Bent 3: Spall with exposed rebar.							
302	Compression Joint Seal	LF	325	222	55	48	0
2310	Leakage	LF	25	0	25	0	0
2340	Seal Cracking	LF	78	0	30	48	0
(302) Joints: 81.25' each (skewed) / Bents 1-4. Some scattered areas of cracking and tattering of joint material, mainly in the northbound (left side) lanes, with scattered loss of adhesion and leaking.							
311	Movable Bearing	EA	39	0	0	39	0
1000	Corrosion	EA	39	0	0	39	0
515	Steel Protective Coating	SF	78	0	0	78	0
3440	Effectiveness (Steel Protective Coatings)	EA	78	0	0	78	0
(311) Movable bearings: 13 per bent / Bents 2 back, Bents 3 back, & Bent 3 ahead. Coating: 2 square feet each. Some scattered surface corrosion with flaking and pack rust between bearing and masonry plate.							
313	Fixed Bearing	EA	39	0	0	39	0
1000	Corrosion	EA	39	0	0	39	0
515	Steel Protective Coating	SF	78	0	0	78	0
3440	Effectiveness (Steel Protective Coatings)	EA	78	0	0	78	0
(313) Fixed bearings: 13 per bent / Bent 1, Bent 2 ahead & Bent 4. Coating: 2 square feet each. Some scattered surface corrosion with flaking and pack rust between bearing and masonry plate.							
331	Reinforced Concrete Bridge Railing	LF	456	428	28	0	0
1080	Delamination/Spall/Patched Area	LF	4	0	4	0	0
1130	Cracking (RC and Other)	LF	24	0	24	0	0
(331) Railing: 152' each side + 152' median divider. Left side: Spalling at first drain (minor collision damage). Some vertical cracks in median divider.							

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	11225	6747	521	3957	0
1080	Delamination/Spall/Patched Area	SF	6	0	6	0	0
1090	Exposed Rebar	SF	9	0	0	9	0
1130	Cracking (RC and Other)	SF	4463	0	515	3948	0
(12) Deck: 74'-10" wide x 150' long.							
Northbound (left side): All spans have map-cracking with some more prominent transverse and longitudinal cracks - heaviest in outer lane and in Span 1. Some small spalls between Girders 4-5 (from placement of anchors for wall during construction).							
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Soffit: Some minor efflorescence reflective of cracking on surface with some spalling and exposed rebar reflective of deflects on surface in Bay 4.							

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215	Reinforced Concrete Abutment	LF	203	180	14	9	0
1120	Efflorescence/Rust Staining	LF	4	0	4	0	0
1130	Cracking (RC and Other)	LF	19	0	10	9	0
(215) Abutments: 81.5' each + 10' wing (each corner) = 101.5' each / Bents 1 & 4. Some stain on concrete around leaking joint seals. Top of back wall is cracking on both abutments with reflective efflorescence.							
227	Reinforced Concrete Pile	EA	28	18	7	3	0
1130	Cracking (RC and Other)	EA	3	0	0	3	0
1190	Abrasion/Wear (PSC/RC)	EA	7	0	7	0	0
(227) Piling: 14 per bent / Bents 2-3. Bent 2 Piles 8-10: Some horizontal cracking on ahead face of pile - CS3 cracking x 3. Old pile have light abrasive wear from water - CS2 abrasive wear x 7.							
234	Reinforced Concrete Pier Cap	LF	164	160	4	0	0
1080	Delamination/Spall/Patched Area	LF	3	0	3	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
(234) Caps: 82' each / Bents 2-3. Bent 3: Spall with exposed rebar.							



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Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Elevation.



Approach.



Bent 3 bearing has rust with flaking.



Soffit north bound lanes has spalls from screed placement.
As built.



North bound span 2 map cracking in deck.



Bent 2 joint seals are torn and leaking near gutter line south bound.



Typical paint system.



Overview of soffit and girders.



Unsealed transverse cracks.



Deck overview south bound.



Deck overview north bound.

Maintenance Needs

Date Reported: 03/06/2017

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 0 - N/A

Status: Assigned

Component:

Deficiency Description

Joints - all bents:

Some scattered areas of cracking and tattering of joint material, mainly in the northbound (left side) lanes, with scattered loss of adhesion and leaking.

Remarks



Bent 1 as logged heading south expansion joint is leaking lose of adhesion



Bent 3 North Bound joint seal torn and leaking.



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Team Lead: Sharon Hooks, **Inspection Date:** 03/29/2021

Date Reported: 03/06/2017

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 0 - N/A

Status: Assigned

Component:

Deficiency Description

Bearings - all bents:

Some scattered surface corrosion with flaking and pack rust between bearing and masonry plate.

Remarks



Bent 3 - Bearings



Bent 4 - Bearings



Bent 1 bearing 10 has moderate rust forming

Date Reported: 04/24/2019
Priority: D- Routine
Type of Work: (Inactive) (Inactive) 0 - N/A
Status: Monitor
Component:

Deficiency Description

Approach roadway - both ends/sides: Some deterioration and settlement of asphalt surface, causing a bump going onto bridge.

Remarks



North bound approach roadway has cracking and settlement at bridge end.



Approach roadway - Bent 1 SB: Settlement



Approach roadway - Bent 4 left inside : Settlement



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Team Lead: Sharon Hooks, **Inspection Date:** 03/29/2021

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	



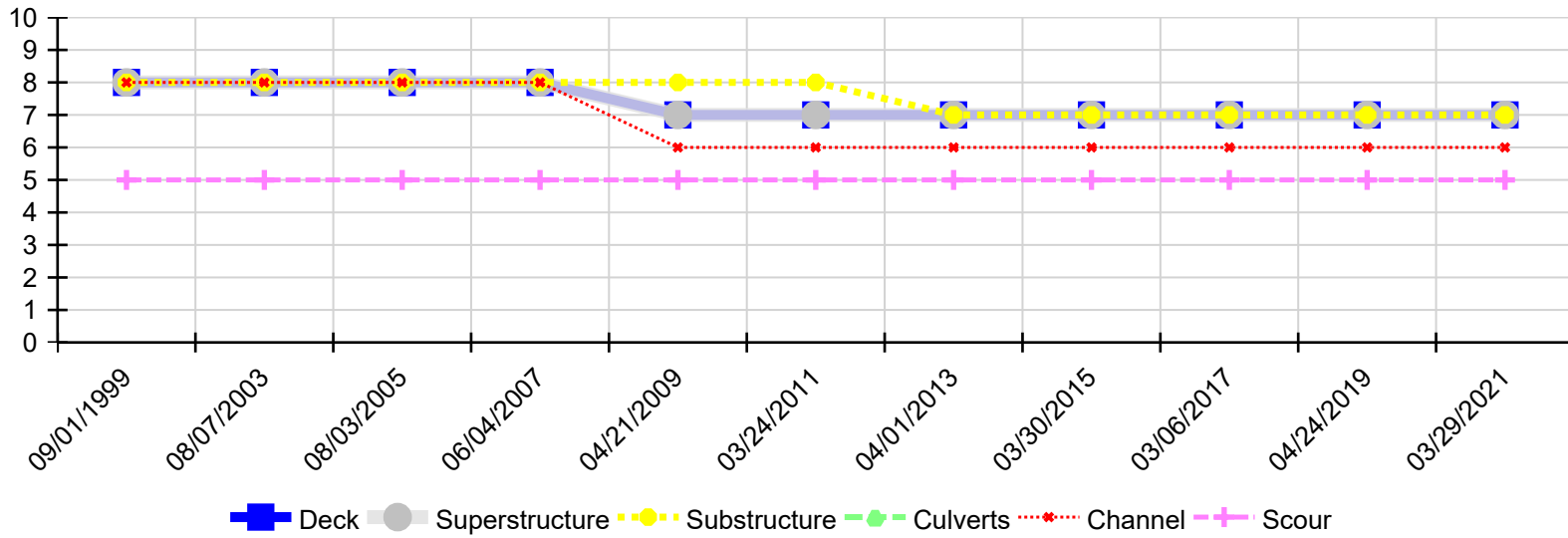
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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
03/29/2021	7	7	7	N	6	5
04/24/2019	7	7	7	N	6	5
03/06/2017	7	7	7	N	6	5
03/30/2015	7	7	7	N	6	5
04/01/2013	7	7	7	N	6	5
03/24/2011	7	7	8	N	6	5
04/21/2009	7	7	8	N	6	5
06/04/2007	8	8	8	N	8	5
08/03/2005	8	8	8	N	8	5
08/07/2003	8	8	8	N	8	5
09/01/1999	8	8	8	N	8	5