



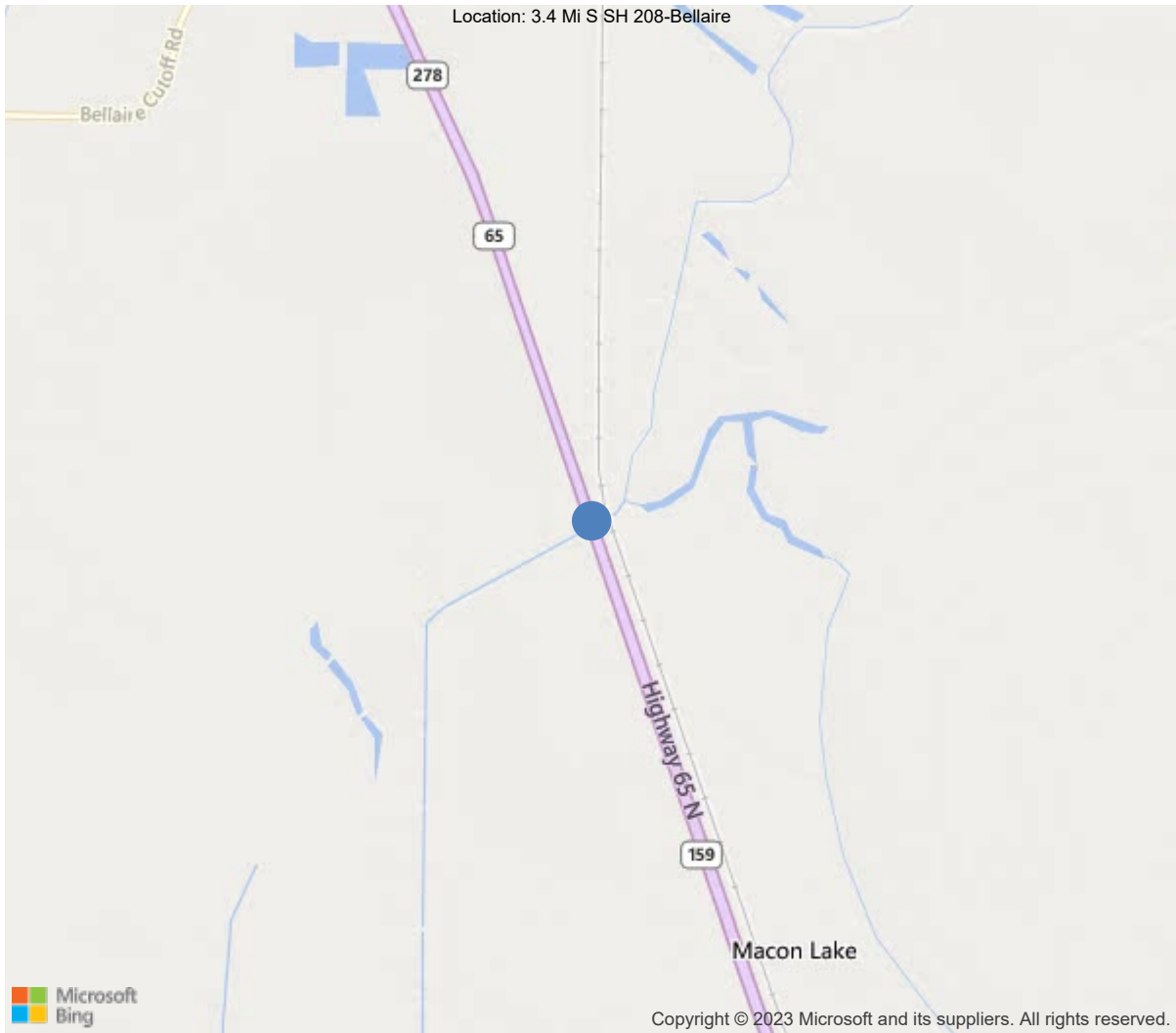
Latitude:33.46094, Longitude:-91.33818

Route:65 Section:20 Log:7.63

Arnold Road ID:9x65x20xA, Arnold Log mile:7.618

District 02, 17 - Chicot County

Owner: 1 - State Highway Agency



33.46094, -91.33818



Asset #02070(Routine)

US 65-20 LM 7.63 over Boeuf Canal

Location: 3.4 Mi S SH 208-Bellaire

Team Lead: Greg Loomis, Inspection Date: 04/19/2021

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	02070
(5) Inventory Route	1
(2) Highway Agency District	02 - District 02
(3) County Code	17 - Chicot County
(4) Place Code	0
(6) Features Intersected	Boeuf Canal
(7) Facility Carried	US 65-20 LM 7.63
(9) Location	3.4 Mi S SH 208-Bellaire
(11) Mile Point	7.63 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000065200
(16) Latitude	33.4609449100801
(17) Longitude	-91.3381843015883
(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	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 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	6400
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	17 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	50 ft
(49) Structure Length	219.8 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	70.9 ft
(52) Deck Width Out to Out	74.8 ft
(32) Approach Roadway Width (W/Shoulders)	78.1 ft
(33) Bridge Median	3 - Closed median wit
(34) Skew	0 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	0 - Inspected feature does not meet
(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	6318
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	04/19/2021		
(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 #02070(Routine)

District: 02, County: 17 - Chicot County

Team Lead: Greg Loomis, Inspection Date: 04/19/2021

General Observation (False)

Bridge is logged from north to south.

A-46 - Asset Files

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US 65-20 LM 7.63 over Boeuf Canal

Location: 3.4 Mi S SH 208-Bellaire

Team Lead: Greg Loomis, **Inspection Date:** 04/19/2021

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
234	Reinforced Concrete Pier Cap	LF	292	281	11	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	10	0	10	0	0
(234) Caps: 73' each / Bents 2-5. Bent 4 back: Very small spall with exposed rebar near right end. NOTE: All caps have vertical cracks at construction joints.							
301	Pourable Joint Seal	LF	72	60	0	4	8
2320	Seal Adhesion	LF	12	0	0	4	8
(301) Pourable Joint Seal: 72' each / Bent 5. Left (northbound) lanes: Missing/loss of adhesion across majority of right (inside) lane.							
302	Compression Joint Seal	LF	360	295	44	21	0
2320	Seal Adhesion	LF	6	0	6	0	0
2330	Seal Damage	LF	41	0	20	21	0
2360	Adjacent Deck or Header	LF	18	0	18	0	0
(302) Compression Joint Seal: 72' each / Bents 1-4 & 6. Bent 2 left (northbound) lanes: Small areas of loss of adhesion (6') with some adjacent deck spalling (18'). Bent 2 right (southbound) lanes: Torn and leaking (25'). Bent 4 left (northbound) lanes: Small torn and tattered areas. Bent 4 right (southbound) lanes: Torn and leaking (4').							
311	Movable Bearing	EA	65	0	45	20	0
1000	Corrosion	EA	65	0	45	20	0
515	Steel Protective Coating	SF	195	0	135	60	0
3440	Effectiveness (Steel Protective Coatings)	EA	195	0	135	60	0
(311) Moveable bearings: 13 per bent \ Bents 2b, 2a, 3a, 4a, & 5a. Coating: 3 square feet / each. Minor surface corrosion with some minor pack-rust forming between plates.							
313	Fixed Bearing	EA	65	0	65	0	0
1000	Corrosion	EA	65	0	65	0	0
515	Steel Protective Coating	SF	65	0	65	0	0
3440	Effectiveness (Steel Protective Coatings)	EA	65	0	65	0	0
(313) Fixed bearings: 13 per bent \ Bents 1, 3b, 4b, 5b, & 6 Coating: 1 square feet / each. Some surface corrosion with small areas of flaking.							
331	Reinforced Concrete Bridge Railing	LF	660	636	24	0	0
1130	Cracking (RC and Other)	LF	24	0	24	0	0
(331) Railing: 220' each side and center. Center: A few scattered, hairline-sized vertical cracks.							

Team Lead: Greg Loomis, **Inspection Date:** 04/19/2021

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	16298	5306	3152	7840	0
1080	Delamination/Spall/Patched Area	SF	115	0	115	0	0
1090	Exposed Rebar	SF	95	0	95	0	0
1120	Efflorescence/Rust Staining	SF	328	0	328	0	0
1130	Cracking (RC and Other)	SF	7840	0	0	7840	0
1190	Abrasion/Wear (PSC/RC)	SF	2614	0	2614	0	0
(12) Deck: 74'-10" wide x 217'-9 1/2" long = 16,298 sqft. All spans: Unsealed, hairline- to moderate-sized cracking - some transverse, some longitudinal - with very light map-cracking and some very light abrasive wear (mainly in wheel ruts) throughout travel lanes - 2614 sqft CS2 abrasive wear; 7840 sqft CS3 cracking. Span 2 right (South bound lanes): 3" diameter hole.							
Soffit - Bay 5: Minor spalls with exposed rebar and efflorescence with transverse cracks (2% efflorescence, 2% spalls).							

Superstructure

[illegible]

Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	186	163	23	0	0
1120	Efflorescence/Rust Staining	LF	5	0	5	0	0
1130	Cracking (RC and Other)	LF	18	0	18	0	0
(215) Abutments: 73' each (with 10' wings each corner) / Bents 1 & 6. Both abutments have vertical cracks with light efflorescence in back-walls.							
227	Reinforced Concrete Pile	EA	60	48	12	0	0
1190	Abrasion/Wear (PSC/RC)	EA	12	0	12	0	0
(227) Piling: 13 per bent / Bents 2 & 5; 17 per bent / Bents 3 & 4. Bents 3 & 4 Piles 6, 7, 8, 15, 16, & 17 (original piling): Light to moderate abrasion on lower 5'.							
234	Reinforced Concrete Pier Cap	LF	292	281	11	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	10	0	10	0	0
(234) Caps: 73' each / Bents 2-5. Bent 4 back: Very small spall with exposed rebar near right end. NOTE: All caps have vertical cracks at construction joints.							



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Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Right side view



Roadway view



Deck - Spans 1-5 left: Typical



Deck - Spans 1-5 right: Typical



Soffit - Span 3: Typical



Joint - Bent 2 left: Adjacent deck spalling



Joint - Bent 2 right: Damage



Joint - Bent 5 left: Loss of adhesion



Soffit - Span 4 Bay 5: Rebar exposed



Bent 4 Pile 7: Abrasive wear

Maintenance Needs

Date Reported: 04/01/2015
Priority: D- Routine
Type of Work: (Inactive) (Inactive) 1 - Clean
Status: Monitor
Component: Channel

Deficiency Description

Channel - Bent 3 left: Build-up of some logs, limbs, and other debris against piling.

Remarks



Bent 3 drift and debris against pile on upstream side.



Channel - Bent 3 left

Date Reported: 04/19/2017
Priority: D- Routine
Type of Work: (Inactive) (Inactive) 1 - Clean
Status: Assigned
Component: Channel

Deficiency Description

End-slopes/channel - all spans: Small trees and vegetation growing under bridge.

Remarks

Chicot: remove and advise when complete



Bent 3 drift and debris against pile on upstream side.



Span 1 & 2 small trees growing under bridge.



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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	



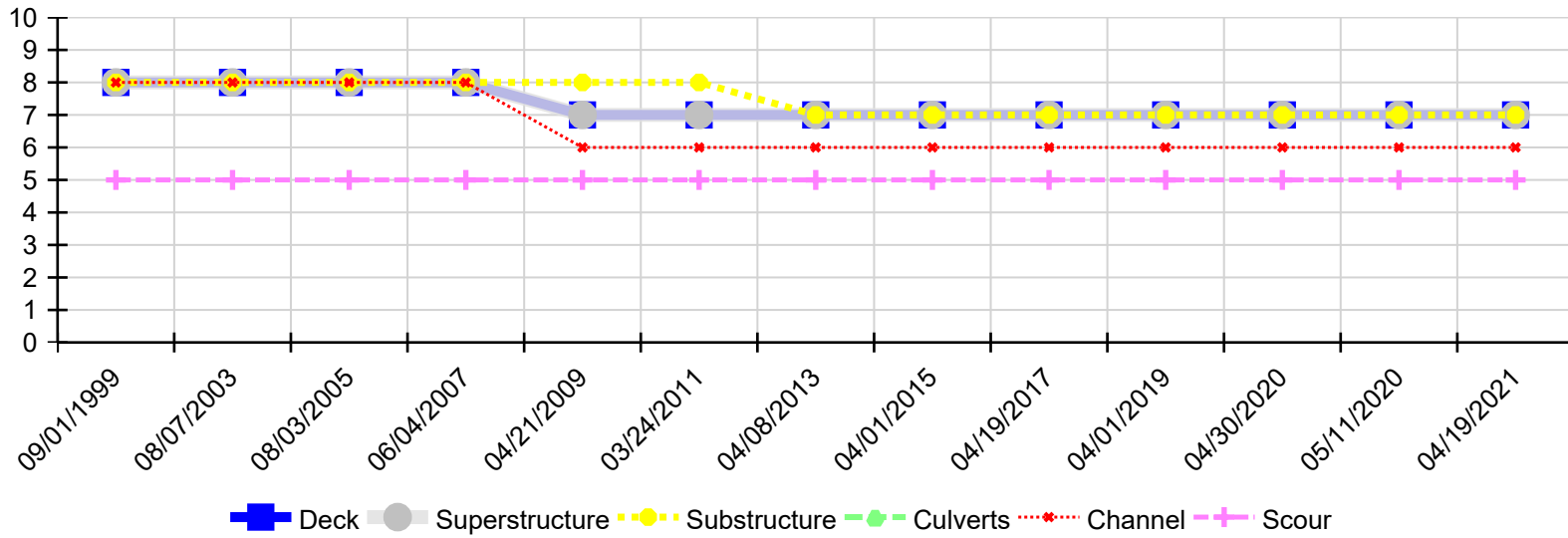
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Location: 3.4 Mi S SH 208-Bellaire

Team Lead: Greg Loomis, Inspection Date: 04/19/2021

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
04/19/2021	7	7	7	N	6	5
05/11/2020	7	7	7	N	6	5
04/30/2020	7	7	7	N	6	5
04/01/2019	7	7	7	N	6	5
04/19/2017	7	7	7	N	6	5
04/01/2015	7	7	7	N	6	5
04/08/2013	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