



Latitude:34.22969, Longitude:-91.99853

Route:65 Section:14 Log:5.94

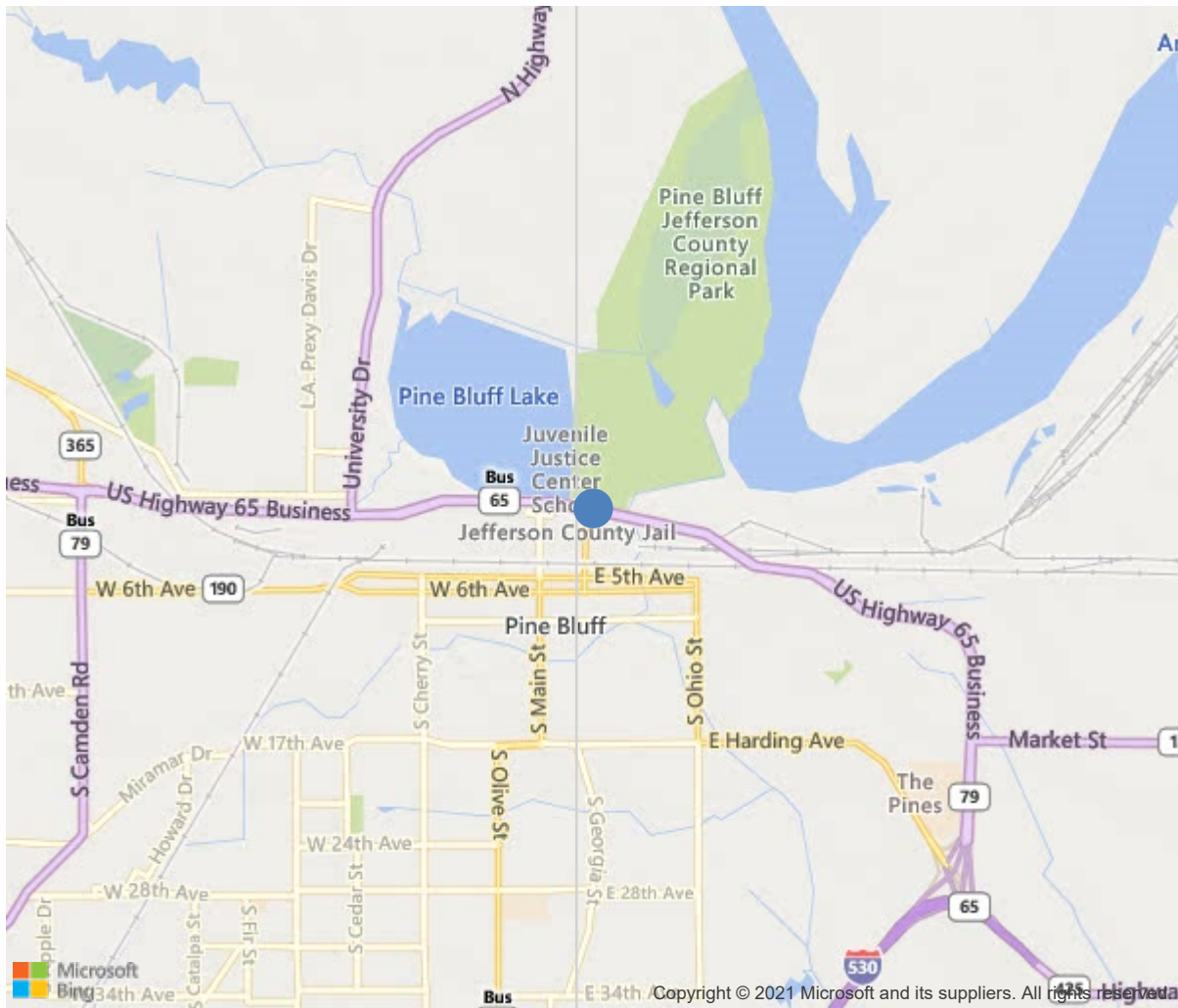
Arnold Road ID:35x65x14BxA, Arnold Log mile:5.915

District 02, Jefferson County

Owner: 1-State Highway Agency

Place Code: 55310 - Pine Bluff

1.2 Mi E US 79B-PineBluff



34.22969, -91.99853



Bridge #05429(Routine)

US 65-14B LM 5.94 over Imbeau Bayou Outlet

Location: 1.2 Mi E US 79B-PineBluff

Team Lead: Sharon Hooks Inspection Date: September 21, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	05429
(5) Inventory Route	65
(2) Highway Agency District	02
(3) County Code	69-Jefferson County, Arkansas
(4) Place Code	55310
(6) Features Intersected	Imbeau Bayou Outlet
(7) Facility Carried	US 65-14B LM 5.94
(9) Location	1.2 Mi E US 79B-PineBluff
(11) Mile Point	5.94 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	000006514B
(16) Latitude	34.22969
(17) Longitude	-91.99853
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	42
Material	4-Steel continuous
Type	2-Stringer/Multi-beam or girder
(44) Approach Structure Type	32
Material	3-Steel
Type	2-Stringer/Multi-beam or girder
(45) No. of Spans in Main Unit	3
(46) No. of Approach Spans	26
(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	1972
(106) Year Reconstructed	0
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	4
Under	0
(29) Average Daily Traffic	8400
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	105 ft
(49) Structure Length	1529 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	74.2 ft
(52) Deck Width Out to Out	83.8 ft
(32) Approach Roadway Width (W/Shoulders)	84 ft
(33) Bridge Median	3-Closed median with no
(34) Skew	0 Deg
(35) Structure Flared	Yes, flared
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	37.1 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 water
(111) Pier Protection	5-None present but re-evaluation
(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	12-Urban Principal Arterial - Oth
(100) Defense Highway	0-The inventory route is not a S
(101) Parallel Structure	N-No parallel structure exists.
(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 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	6
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	7
(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	3
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	9
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1-Inspected feature meets currently a
(36B) Transitions	0-Inspected feature does not meet cur
(36C) Approach Guardrail	0-Inspected feature does not meet cur
(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	9880
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			09/2020
(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.			

Team Lead: Sharon Hooks, **Inspection Date:** September 21, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	129497	115100	12956	1441	0
1080	Delamination/Spall/Patched Area	SF	106	0	0	106	0
1130	Cracking (RC and Other)	SF	2286	0	2078	208	0
(12)							
Deck (Spans 18-20): 83.8' wide x 248' long. Spans *18 right lane & 19 left lane: Scattered small spalls (*patched) - unable to determine depth. NOTE: Most spalls have been filled with asphalt mix.							
All spans: Unsealed, minor- to moderate-sized map cracking & a few unsealed, hairline- to moderate-sized transverse cracks, especially Spans 18, & 19 left side and Span 19 right side. All spans: Very small spalls over tops of shear connectors over Girders 1, 5, 6, & 10.							
107	Steel Open Girder/Beam	LF	15644	13562	1390	692	0
1000	Corrosion	LF	99	0	74	25	0
515	Steel Protective Coating	SF	82210	57797	10777	9178	4458
3410	Chalking (Steel Protective Coatings)	SF	2604	0	2604	0	0
3440	Effectiveness (Steel Protective Coatings)	SF	1051	0	0	788	263
(107)							
Girders: 10 per span / 248' total. Coating : Span 18-20 = 10.5 square feet per linear feet of girder.							
Various locations: Some corrosion with minor section loss on webs & flanges of girders, mainly at bents with open joints (1% CS3, 3% CS2).							
Paint on outside of outer girders is dull and has no luster.							
205	Reinforced Concrete Column	EA	48	42	4	2	0
1080	Delamination/Spall/Patched Area	EA	2	0	2	0	0
1090	Exposed Rebar	EA	2	0	1	1	0
(205)							
Columns: 4 per bent / Bents 18-21. Bent 18 Column 3 ahead has small spalls that appear to be gun shot holes. Bent 19 Column 2 right ahead side: A narrow, horizontal band (4" tall x 18" around) of spalling ~2' up from ground/waterline. (A very small amount of steel exposed – no section loss.) Bent 20 Column 4 has small spall without rebar exposed below typical water line. Bent 21 column 1 has spall with exposed rebar on ahead face. NOTE: Spans 18-20: Past erosion/scouring issues have been stabilized using rock riprap.							
215	Reinforced Concrete Abutment	LF	180	154	20	6	0
1120	Efflorescence/Rust Staining	LF	6	0	0	6	0
1130	Cracking (RC and Other)	LF	20	0	20	0	0
(215)							



Bridge #05429(Routine)

US 65-14B LM 5.94 over Imbeau Bayou Outlet

Location: 1.2 Mi E US 79B-PineBluff

Team Lead: Sharon Hooks, Inspection Date: September 21, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
Abutments: 96' / Bent 1; 84' Bent 30. Bent 30: Backwall is 1/2-1" higher than adjacent deck, resulting in a slight bump going onto or off of bridge - largest height difference is in two interior lanes. Bent 30 right side: Some minor-sized transverse cracking along top of backwall. Bent 30 mid section between girders 5 & 6 has cracks with efflorescence.							
227	Reinforced Concrete Pile	EA	178	176	2	0	0
1080	Delamination/Spall/Patched Area	EA	2	0	2	0	0
(227)							
Piling: 13 per bent / Bents 2-5; 12 per bent / Bent 6; 10 per bent / Bents 7-9 & Bents 23-29; 14 per bent / Bent 22. Bent 5 Piles 9 & 12 and Bent 6 Pile 10: Small chips and nicks in piles.							
234	Reinforced Concrete Pier Cap	LF	2125	2026	34	65	0
1090	Exposed Rebar	LF	10	0	0	10	0
1130	Cracking (RC and Other)	LF	10	0	6	4	0
(234)							
Caps: 75' each / Bents 18-21. Bent 19 back face: Diagonal cracks (CS2 cracking - 6'). Bent 21: Spalling with exposed rebar (with some section loss) on back face near Column 2 (CS3 rebar - 4'); spalling with exposed rebar (with some section loss) on top ahead corner near right end under Bearing 10 (CS3 rebar - 6', CS3 cracking - 4').							
302	Compression Joint Seal	LF	2108	0	1233	542	333
2330	Seal Damage	LF	74	0	74	0	0
2360	Adjacent Deck or Header	LF	74	0	74	0	0
(302)							
Joints: 74' each / Bents 18 & 21 Some minor tattering of joint material - some very minor leakage. Scattered, minor chipping or cracking of concrete adjacent to road-irons.							
311	Movable Bearing	EA	298	100	105	93	0
1000	Corrosion	EA	20	0	10	10	0
515	Steel Protective Coating	SF	616	224	0	196	196
3440	Effectiveness (Steel Protective Coatings)	SF	60	0	0	30	30
(311)							
Moveable bearings: 10 per bent / Bents 18 ahead & 21 back. Coating: 3 square feet each.							
Some corrosion with minor section loss – with flaking and pack rust impeding rocker movement, heaviest at bents with open joints.							
313	Fixed Bearing	EA	288	115	92	80	1
1000	Corrosion	EA	10	0	10	0	0
515	Steel Protective Coating	SF	596	231	15	190	160
3440	Effectiveness (Steel Protective Coatings)	SF	45	0	15	30	0

Team Lead: Sharon Hooks, **Inspection Date:** September 21, 2020

[illegible]



Bent 30 back wall has cracking with efflorescence.



Bent 24 pile 5 has been repaired in past.



Bent 23 ahead face left end has large spall with exposed rebar encroaching on bearing area.



Span 4 north bound has small spall in deck.



Deck overview spans 1-4 north bound.



Span 5 north bound metal bridge rail damage.



Deck span 5-9 north bound.



Span 13 metal rail damage north bound.



Deck Verviers span 10-14 north bound.



Deck overview span 15-17 north bound.



Deck overview span 18 north bound.



Deck overview span 19-20 north bound.



Deck overview span 21-24 north bound.



Deck span 25 north bound has spalling.



Deck overview 25-29 north bound.



Back wall bent 30 south bound is higher than bridge deck



Deck span 27 right lane south bound has spalls with exposed rebar.



Deck overview of spans 25-29 south bound.



Deck overview span 21-24 south bound.



Deck overview span 20 south bound.



Deck span 19 south bound out side lane has 1' by 1' spall.



Deck span 18-19 south bound.



Bent 17 joint seal material missing.



Deck overview span 16-17 south bound.



Span 13 median wall has spalls with exposed rebar. Common various locations.



Deck span 11 map cracking.



Deck overview span 11-15 south bound.



Deck overview span 7-10.south bound.



Bent 5 joint material is torn and leaking.



Deck overview spans 1-6 south bound.



Approach



Bent 21 column 1 ahead has spall with exposed rebar.



Bent 21 cap back spalls with exposed rebar.



Bent 21 cap has cracking near girder 9.



Bent 19 column 2 has spalling with exposed rebar.



Bent 18 bearing 2 ahead is leaned back possibly due to pack rust.



Overview of soffit and girders (Main)



Bent 14 girder 6 left has corrosion with some flaking to web and lower flange.



Bent 10 bearing4 ahead has heavy flaking rust. Common most bearing this bridge.



Bent 10 cap ahead has spalling with exposed rebar.



Bent 10 column 2 has spall with exposed rebar.



Bent 9 bearing 1 has flaking rust between bearing and plate.



Span 9 girder 3 right has flaking rust.



Bent 6 between piles 5 & 6 cap has small delam.



Overview of soffit and girders span 2.



Span 1 graffiti on girders.



Maintenance Needs

Date Reported: 10/31/2012
Priority: D- Routine
Type of Work: N/A
Status: Monitor
Component: Bridge

Deficiency Description

Deck –

Spans 4, 13, 17, 19, 22, & 25 left lane and Span 20 right lane: Scattered small spalls - unable to determine depth.
NOTE: Several spalls have been filled with asphalt mix. Several small spalls with exposed rebar in various locations.
Updated 9/21/2020 SDH.

All spans over Girders 1, 5, 6, & 10: Very small spalls over tops of shear connectors – near gutterlines.

Remarks



Deck - Span 20 right: Spall



Deck - Span 22 left: Spalls



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Location: 1.2 Mi E US 79B-PineBluff

Team Lead: Sharon Hooks **Inspection Date:** September 21, 2020



Deck - Span 19 right: Cracking/spalling



Deck - Span 17 left: Crack/spall



Deck - Span 21 right: Spalling over shear connectors



Deck - Span 19 left: Cracking/spall



Bent 14 column 1 has spalling/ abrasion to lower 2'
of column with exposed rebar



Bridge #05429 (Routine)
US 65-14B LM 5.94 over Imbeau Bayou Outlet
Location: 1.2 Mi E US 79B-PineBluff

Team Lead: Sharon Hooks Inspection Date: September 21, 2020

Date Reported: 10/31/2012
Priority: G - General/ Preventive maintenance
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Bent 22 bearings: All anchor nuts missing.
Bent 23 bearings: Many anchor nuts missing or rusted off.
Bent 30 Bearings 5 right & 6 left: Nuts missing on anchor bolts.

Remarks



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US 65-14B LM 5.94 over Imbeau Bayou Outlet
Location: 1.2 Mi E US 79B-PineBluff

Team Lead: Sharon Hooks **Inspection Date:** September 21, 2020

Date Reported: 10/31/2012
Priority: G - General/ Preventive maintenance
Type of Work: N/A
Status: Assigned
Component:

Deficiency Description

Railing – Spans 5 left, 9 left, 13 left, 15 left, & 27 right: Minor damage to rail or post.

Remarks

repair as time permits



Railing - Bent 5 left: Damage



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Team Lead: Sharon Hooks **Inspection Date:** September 21, 2020

Date Reported: 10/31/2012
Priority: G - General/ Preventive maintenance
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Span 15 Girder 10 @ Bent 15: Some rust on left & right sides of web @ haunch with 20-30% section loss.

Remarks

Date Reported: 10/31/2012
Priority: D- Routine
Type of Work: N/A
Status: Assigned
Component:

Deficiency Description

Cap – Bent 21: Spalling with rebar exposed (some section loss) along the top ahead corner of cap near the right end.

09/17/2018 GGL-KLR: Changed priority from "G" to "D".

Remarks



Bent 21 - Cap ahead side: Exposed rebar

Date Reported: 10/31/2012
Priority: D- Routine
Type of Work: N/A
Status: Assigned
Component:

Deficiency Description

Girders & bearings – various locations: Some corrosion with minor section loss on webs & flanges of girders and on bearings, mainly at bents with open joints.

09-17-2018 GGL-KLR: Changed priority from "G" to "D".

Remarks



Span 9 Girder 3 right @ Bent 9: Corrosion



Bent 21 Back- Bearing 5 : Corrosion



Span 7 - Girders 6 Left : Corrosion on haunch.



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Team Lead: Sharon Hooks **Inspection Date:** September 21, 2020

Date Reported: 10/31/2012
Priority: G - General/ Preventive maintenance
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Bent 19 Column 2 right ahead side: A narrow, horizontal band (4" tall x 18" around) of spalling ~2' up from ground/waterline. (A very small amount of steel exposed – no section loss.)

Remarks

Date Reported: 10/31/2012
Priority: D- Routine

Type of Work: N/A
Status: Assigned
Component:

Deficiency Description

Joints – Bents 11, 14, 17, 22, & 23 left lanes & Bents 11, 14, 17, 22, & 23 right lanes: Joint material has fallen out – resting on cap in many locations.
Dirt & debris build-up on caps, around bearings, and on end of girders in most locations.

Remarks

repair joint material as time permits



Joint - Bent 23 right: Material missing



Span 23 expansion joint material missing in right hand lane and remaining joint torn and damaged.



Bent 11 Joint material laying on cap with moisture and debris on cap



Joint - Bent 11 left: Material missing



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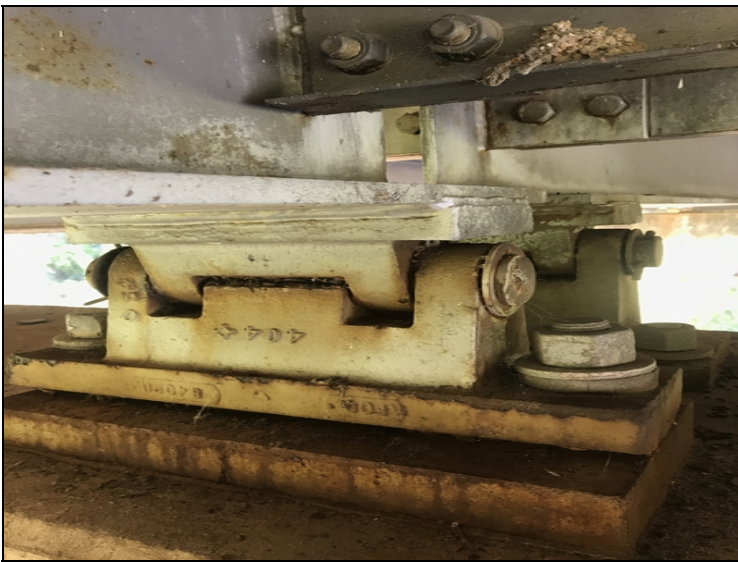
Team Lead: Sharon Hooks Inspection Date: September 21, 2020

Date Reported: 10/31/2012
Priority: D- Routine
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Bent 16 Bearing 7 ahead and Bent 22 Bearings 1, 2, 4, & 7 back: Cotter pin & washer missing off one end of pin.

Remarks



Bent 16 - Bearing 7: no cotter pin

Date Reported: 10/06/2014
Priority: C - Important
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Deck – all spans: Unsealed, minor- to moderate-sized map cracking & a few unsealed, hairline- to moderate-sized transverse cracks, especially Spans 6, 17, 18, 19, 21, 24, & 28 left side and Spans 4, 19, & 26 right side.

Remarks



Deck - Span 19 right: Transverse cracking



Deck - Span 11 left: Map cracking



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Team Lead: Sharon Hooks **Inspection Date:** September 21, 2020



Deck - Span 11 right: Transverse cracking



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Team Lead: Sharon Hooks Inspection Date: September 21, 2020

Date Reported: 10/06/2014
Priority: G - General/ Preventive maintenance
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Joints – Bents 1-10, 12-13, 15-16, 18, 21, 23 right lane, & 24-30: Some minor to heavy tattering of joint material - some minor leakage.

Remarks



Joint - Bent 1 left: Damage

Date Reported: 10/06/2014
Priority: G - General/ Preventive maintenance
Type of Work: N/A
Status: Assigned
Component:

Deficiency Description

Cap – Bent 10 ahead side: Several areas of spalling/delamination (approximate 2' square) on face of cap.

Remarks

repair as time permits



Bent 10 delam with exposed rebar over pile 2 and
between piles 3-4

Date Reported: 09/14/2016
Priority: C - Important
Type of Work: N/A
Status: Assigned
Component:

Deficiency Description

Bent 14 Column 1: Spalling with exposed rebar (with some section loss) on right side - approximately 2' above normal water-line (half the circumference of the column and up to 3" deep).

Remarks

bridge: David Lets discuss this one



Bent 14 column 1 approx 2' above water line spall with exposed rebar to half the circumference of the column 1' high. Very light flaking rust starting on exposed rebar.

Date Reported: 09/17/2018
Priority: G - General/ Preventive maintenance
Type of Work: N/A
Status: Assigned
Component:

Deficiency Description

Channel/slope - Bent 20: Vines/vegetation growing up Column 1 - hindering thorough inspection of column.

Remarks



Bent 20- Vegetation

Date Reported: 09/17/2018
Priority: C - Important
Type of Work: N/A
Status: Assigned
Component:

Deficiency Description

Span 19 - Girders 1, 2, 9, & 10: Approximately 1" diameter holes have been drilled/torch-cut in webs of girder - holes need to be filled with properly-sized bolts/nuts and torqued to proper specifications to prevent cracking of the webs in these locations (a couple of the holes already have a bolt/nut loosely inserted).

Remarks



Span 19 - Girder 2 at Bent 20: Hole in web



Span 19 - Girder 1 near Bent 20: Hole in web with loose bolt



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US 65-14B LM 5.94 over Imbeau Bayou Outlet
Location: 1.2 Mi E US 79B-PineBluff

Team Lead: Sharon Hooks **Inspection Date:** September 21, 2020

Date Reported: 09/18/2018
Priority: C - Important
Type of Work: N/A
Status: Assigned
Component:

Deficiency Description

Cap – Bent 23: Spalling with rebar exposed (some section loss) along the top ahead corner and left end of the cap - approximately 1/3 loss of bearing area under Bearing 1 ahead.

Remarks

Date Reported: 09/18/2018
Priority: D- Routine
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Joint/abutment - Bent 30: Backwall is 1/2-1" higher than adjacent deck, resulting in a slight bump going onto or off of bridge
- largest height difference is in two interior lanes.

Remarks



Joint - Bent 30 right: Backwall higher than deck



Joint - Bent 30 left: Backwall higher than deck

Team Lead: Sharon Hooks **Inspection Date:** September 21, 2020

Date Reported: 09/22/2020
Priority: G - General/ Preventive maintenance
Type of Work: Repair
Status: Open
Component: Bridge

Deficiency Description

Bent 1 end slope left has some erosion with no undermining of abutment.

Remarks



Bent 1 left has some erosion to end slope with no undermining of abutment at this time.



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Location: 1.2 Mi E US 79B-PineBluff

Team Lead: Sharon Hooks **Inspection Date:** September 21, 2020

Inspection Comments

Bridge is logged from west to east. Bridge is locally known as "Texas Street Bridge".