

Bridge Inspection Report

06747
US 63-14 LM 3.31
over
Boggy Bayou



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

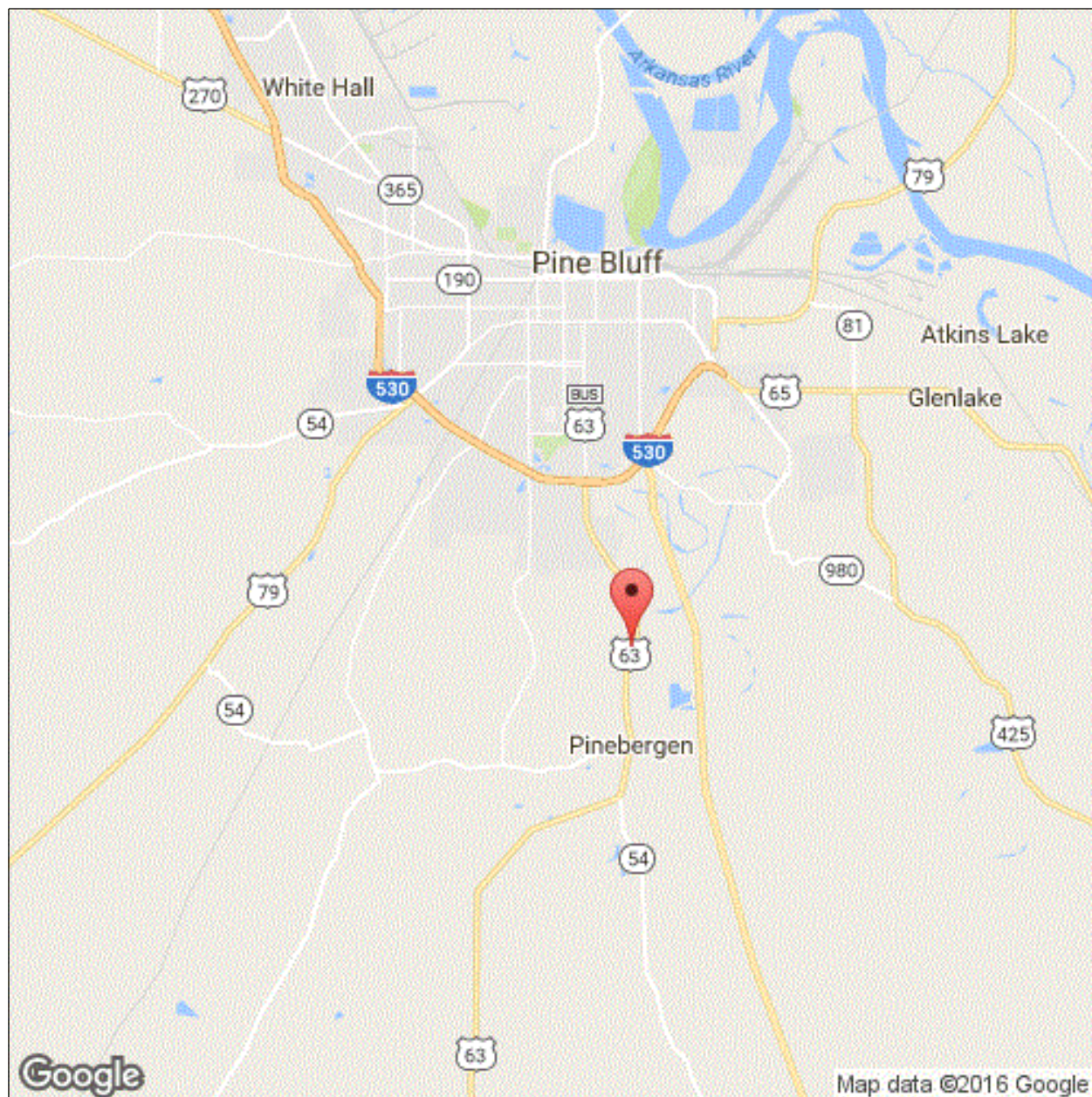
Structure Number: 06747

Inspection Date:

Facility Carried: US 63-14 LM 3.31

Bridge Inspection Report

Location Map



Latitude: 34.12840882305768

Longitude: -91.99168427016997

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Bridge Inspection Report

Executive Summary

Bridge is logged from north to south.

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Bridge Inspection Report

National Bridge Inventory

| IDENTIFICATION | | INSPECTIONS | |
|---|--|---|---------------|
| (1) STATE CODE | 056 - Arkansas | (90) INSPECTION DATE | 12/18/2018 |
| (8) STRUCTURE NUMBER | 06747 | (91) DESIGNATED INSPECTION FREQUENCY | 24 |
| (5) INV. ROUTE (ON/UNDER) | 1 2 1 63 0 | (92) CRITICAL FEATURE INSPECTION | (93) CFI DATE |
| (2) HIGHWAY AGENCY | 02 (3) COUNTY CODE 069 | A. FRACTURE CRITICAL DETAIL | N |
| (4) PLACE CODE | 00000 | B. UNDERWATER INSPECTION | N |
| (6) FEATURES INTERSECTED | Boggy Bayou | C. OTHER SPECIAL | N |
| (7) FACILITY CARRIED | US 63-14 LM 3.31 | | |
| (9) LOCATION | 3.31 Mi S I-530-Pinebergn | | |
| (11) MILEPOINT 3.310 | (12) BASE HIGHWAY NETWORK 0 | | |
| (13A) LRS INVENTORY ROUTE | 0000000000 (13B) SUBROUTE NUMBER 00 | | |
| (16) LATITUDE 34.12840882305768 | (17) LONGITUDE -91.99168427016997 | | |
| (98A) BORDER BRIDGE CODE | | | |
| PERCENT RESPONSIBILITY | (99) BORDER BRIDGE STRUCT | | |
| STRUCTURE TYPE AND MATERIAL | | CONDITION | |
| (43) STRUCTURE TYPE, MAIN | | (58) DECK | 7 |
| A) KIND OF MATERIAL/DESIGN: 1 - Concrete | | (59) SUPERSTRUCTURE | 8 |
| B) TYPE OF DESIGN/CONSTR: 04 - Tee Beam | | (60) SUBSTRUCTURE | 8 |
| (44) STRUCTURE TYPE, APPROACH SPANS | | (61) CHANNEL & CHANNEL PROTECTION | 8 |
| A) KIND OF MATERIAL/DESIGN: 0 - Other | | (62) CULVERT | N |
| B) TYPE OF DESIGN/CONSTR: 00 - Other | | | |
| (45) NUMBER OF SPANS IN MAIN 6 | (46) NUMBER OF APPROACH 0 | | |
| (107) DECK STRUCTURE TYPE 1 | (108A) WEARING SURFACE 1 | | |
| (108B) DECK MEMBRANE 0 | (108C) DECK PROTECTION 1 | | |
| AGE OF SERVICE | | LOAD RATING AND POSTING | |
| (27) YEAR BUILT 2002 | (106) YEAR RECONSTRUCTED 0000 | (31) DESIGN LOAD | 6 |
| (42) TYPE OF SERVICE ON 1 | UNDER 5 | (63) METHOD USED TO DETERMINE OPERATING RATING | 1 |
| (28) LANES ON 05 | UNDER 00 | (64) OPERATING RATING | 60.0 |
| (29) AVERAGE DAILY TRAFFIC 6200 | (19) BYPASS DETOUR LENGTH 10 | (65) METHOD USED TO DETERMINE INVENTORY RATING | 1 |
| (30) YEAR OF AVERAGE DAILY TRAFFIC 2014 | | (66) INVENTORY RATING | 36.0 |
| (109) AVERAGE DAILY TRUCK TRAFFIC 8 | | (70) BRIDGE POSTING | 5 |
| GEOMETRIC DATA | | (41) STRUCTURE OPEN/POSTED/CLOSED | A |
| (48) LENGTH OF MAX SPAN (ft.) 29 | (49) STRUCTURE LENGTH (ft.) 178 | | |
| (50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0.5 | RIGHT 0.5 | | |
| (51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) | 73.5 | | |
| (52) DECK WIDTH, OUT-TO-OUT (ft.) | 76.5 | | |
| (32) APPROACH ROADWAY WIDTH (ft.) | 75.1 | | |
| (33) BRIDGE MEDIAN 0 | (34) SKEW (DEG.) 0 | | |
| (35) STRUCTURE FLARED 0 | (10) INV RTE, MIN VERT CLEAR (ft.) 99.99 | | |
| (47) TOTAL HORIZONTAL CLEARANCE (ft.) | 74.8 | | |
| (53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) | 99.90 | | |
| (54) VERTICAL UNDER CLEARANCE (ft.) | N 0 | | |
| (55) LATERAL UNDER CLEARANCE RIGHT (ft.) | N 99.9 | | |
| (56) MIN LATERAL UNDER CLEARANCE (ft.) | 0 | | |
| PROPOSED IMPROVEMENTS | | APPRAISAL | |
| (75A) TYPE OF WORK PROPOSED 31 | (75B) WORK DONE BY 1 | (67) STRUCTURAL EVALUATION | 8 |
| (76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) | 174.0 | (68) DECK GEOMETRY | 6 |
| (94) BRIDGE IMPROVEMENT COST (\$) | 0 | (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL | N |
| (95) ROADWAY IMPROVEMENT COST (\$) | 265 | (71) WATERWAY ADEQUACY | 8 |
| (96) TOTAL PROJECT COST | 921 | (72) APPROACH ROADWAY ALIGNMENT | 8 |
| (97) YEAR OF IMPROVEMENT COST ESTIMATE | 2001 | (36) TRAFFIC SAFETY FEATURE | |
| (114) FUTURE ADT 10640 | (115) YEAR OF FUTURE ADT 2028 | 36A) BRIDGE RAILINGS: | 1 |
| | | 36B) TRANSITIONS: | 1 |
| | | 36C) APPROACH GUARDRAIL: | 1 |
| | | 36D) APPROACH GUARDRAIL ENDS: | 1 |
| | | (113) SCOUR CRITICAL BRIDGES | 5 |
| | | SUFFICIENCY RATING | 95.4 |
| | | STATUS | 0 |
| | | CLASSIFICATION | |
| | | (112) NBIS BRIDGE LENGTH | Y |
| | | (104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE | 0 |
| | | (26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE | 06 |
| | | (100) STRAHNET HIGHWAY DESIGNATION | 0 |
| | | (101) PARALLEL STRUCTURE DESIGNATION | N |
| | | (102) DIRECTION OF TRAFFIC | 2 |
| | | (103) TEMP STRUCTURE | |
| | | (105) FEDERAL LANDS HIGHWAYS | 0 |
| | | (110) DESIGNATED NATIONAL NETWORK | 0 |
| | | (20) TOLL | 3 |
| | | (21) MAINTENANCE RESPONSIBILITY | 01 |
| | | (22) OWNER | 01 |
| | | (37) HISTORICAL | 5 |
| | | NAVIGATION DATA | |
| | | (38) NAVIGATION CONTROL | 0 |
| | | (111) PIER OR ABUTMENT PROTECTION | 5 |
| | | (39) NAV VERT CLEARANCE (ft.) | 0 |
| | | (116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.) | 0 |
| | | (40) NAV HORIZONTAL CLEARANCE (ft.) | 0 |

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Bridge Inspection Report

Element Inspection

| | Environment | Total Quantity | Units | Condition State 1 | Condition State 2 | Condition State 3 | Condition State 4 |
|--|-------------|----------------|---------|-------------------|-------------------|-------------------|-------------------|
| 16 - Reinforced Concrete Top Flange | 1- Ben. | 13617 | sq. ft. | 11422 | 1083 | 1112 | 0 |
| Deck: 76.5' wide x 178' long. A few scattered, unsealed, minor- to moderate-sized longitudinal or diagonal cracks, especially on right half of bridge, with reflective efflorescence showing on soffit. Moderate (CS3) cracking: Span 1: 10 longitudinal cracks (10 x 30' = 300 sqft) Span 2: 6 longitudinal cracks (6 x 30' = 180 sqft) Span 3: 4 longitudinal cracks (4 x 30' = 120 sqft) Span 4: 5 longitudinal cracks (5 x 30' = 150 sqft) Span 5: 6 longitudinal cracks (6 x 30' = 180 sqft) Span 6: 6 longitudinal cracks (6 x 30' = 180 sqft) Bent 5 right: A couple small areas spalling right along joint - at edge line and center of right outside lane. Areas have been somewhat patched with asphalt mix but are continuing to spall on shoulder. Span 6 @ Bent 6: Small spall (pot hole) in right outer lane in wheel rut. | | | | | | | |
| 1080 - Delamination/Spall/Patched Area | | 17 | | 0 | 15 | 2 | 0 |
| 1130 - Cracking (RC and Other) | | 2178 | | 0 | 1068 | 1110 | 0 |
| 110 - Reinforced Concrete Open Girder/Beam | 1- Ben. | 1424 | ft. | 1374 | 50 | 0 | 0 |
| Girders: 8 per span / 178' total. Most girders have efflorescence showing at end of girders around diaphragms - running down onto caps. Some minor- to moderate sized cracking and delaminations on ends of diaphragms above caps. Bent 3 right: Minor, shallow spall on back side of diaphragm right at end - no steel exposed. | | | | | | | |
| 1120 - Efflorescence/Rust Staining | | 50 | | 0 | 50 | 0 | 0 |
| 215 - Reinforced Concrete Abutment | 1- Ben. | 152 | ft. | 152 | 0 | 0 | 0 |
| Abutments: 76' each / Bents 1 & 7. Efflorescence from Girder Diaphragms is leaking onto abutment. | | | | | | | |
| 227 - Reinforced Concrete Pile | 1- Ben. | 50 | each | 50 | 0 | 0 | 0 |
| Piling: 10 per bent / Bents 2-6. Bent 2 Pile 4: Evidence of crack-sealing performed on pile during construction (sealant on back and left sides near top). Bent 3 Pile 2: Poured concrete collar 5-8' down from cap (as-built condition). All pile have minor abrasive wear at water line. | | | | | | | |
| 234 - Reinforced Concrete Pier Cap | 1- Ben. | 380 | ft. | 379 | 0 | 1 | 0 |
| Caps: 76' each / Bents 2-6. Bent 2- Between Pile 4 & 5: Steel exposed. CS3 | | | | | | | |
| 1090 - Exposed Rebar | | 1 | | 0 | 0 | 1 | 0 |

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Element Inspection

| | | | | | | | |
|--|---------|-----|-----|-----|-----|---|---|
| 301 - Pourable Joint Seal | 1- Ben. | 385 | ft. | 270 | 115 | 0 | 0 |
| Joints: 77' each / Bents 2-6. Bent 2 right: Poured joint material is missing (deteriorated), mainly in outside lane - joint filled with dirt and debris. (15') Remaining joints are beginning to deteriorate and lose adhesion in many places along with chipping and spalling along joint. (Spalling - 20" @ each bent) | | | | | | | |
| 2350 - Debris Impaction | | 15 | | 0 | 15 | 0 | 0 |
| 2360 - Adjacent Deck or Header | | 100 | | 0 | 100 | 0 | 0 |
| 331 - Reinforced Concrete Bridge Railing | 1- Ben. | 356 | ft. | 356 | 0 | 0 | 0 |
| Railing: 178' each side. | | | | | | | |

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Bridge Inspection Report

Pictures

PHOTO 1

Description

PHOTO 2

Description

Inspector:

Inspection Date:

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Bridge Inspection Report

Pictures

PHOTO 3

Description

Inspector:

Inspection Date:

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Bridge Inspection Report

Sketches

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 11/8/2012 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code: N/A

Deficiency Description:

Joint – Bent 2 right: Poured joint material is missing (deteriorated), mainly in outside lane – joint filled with dirt and debris. Remaining joints are beginning to deteriorate and lose adhesion in many places along with chipping and spalling along joint.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Joint - Bent 2 left (small patches and spalls)

Stage: Monitor



PHOTO 2 Description Joint - Bent 2 right (joint material missing)

Inspector:

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 3 Description Joint - Bent 2 : Debris

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Maintenance Needs

Date Reported: 11/8/2012 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code: N/A

Deficiency Description:

Deck: A few scattered, unsealed, minor- to moderate-sized longitudinal or diagonals cracks, especially on right half of bridge, with reflective efflorescence showing on soffit.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Deck - Span 1 right outside lane
(diagonal cracking)

Stage: Monitor



PHOTO 2 Description Deck - Span 1 : Cracking

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Maintenance Needs

Date Reported: 12/18/2018

Priority: C - Important

Work Code: N/A

Deficiency Description:

Deck - Span 6 @ Bent 6: Small spall (pot hole) in right outer lane in wheel rut.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Deck - Span 6: Spall