

Bridge Inspection Report

00518

US 64/sec15/L7.61

over

LANGUILLE RELIEF



Inspection Date:

Inspected By:

Inspection Type(s):



Inspector:

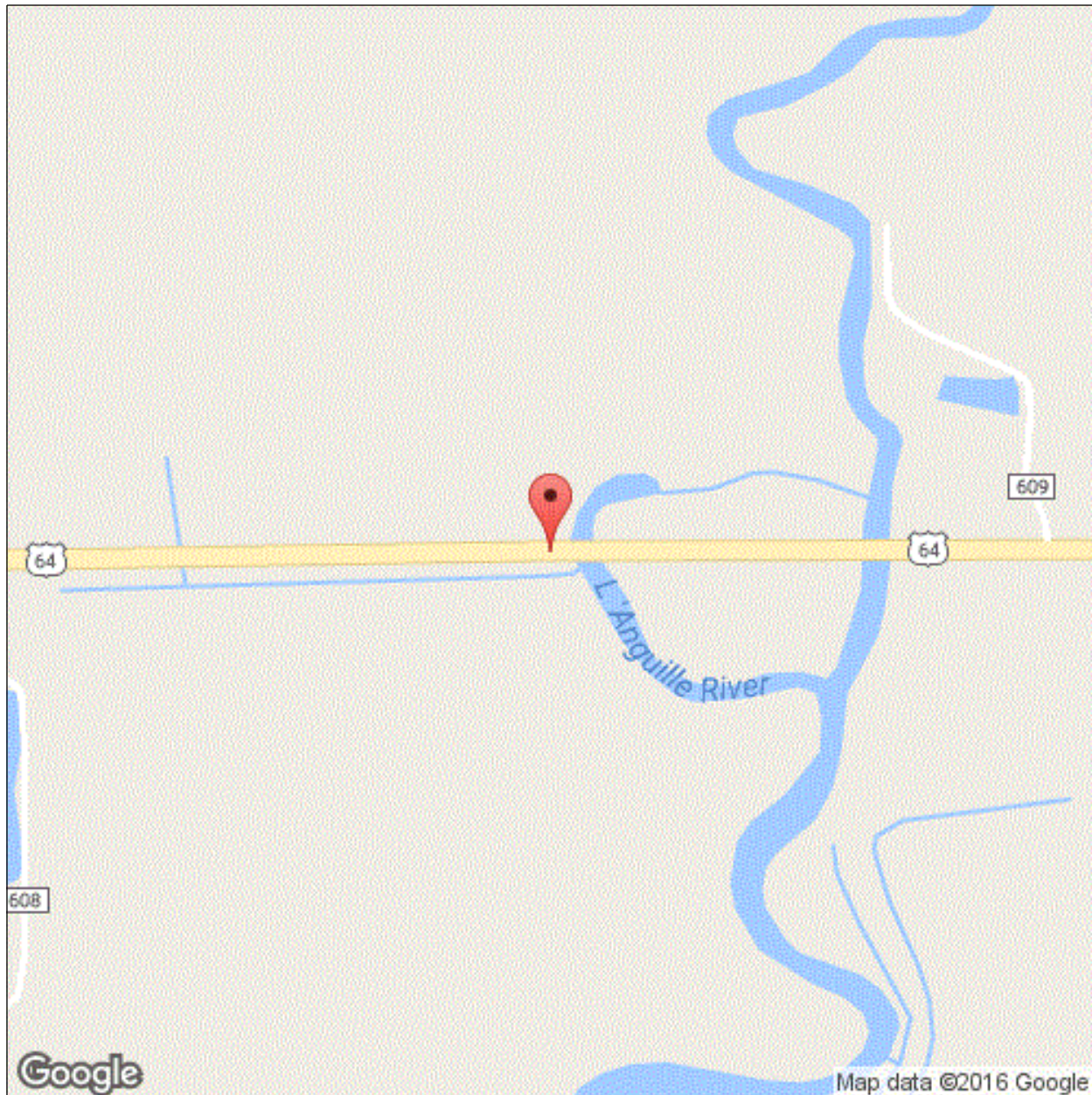
Structure Number: 00518

Inspection Date:

Facility Carried: US 64/sec15/L7.61

Bridge Inspection Report

Location Map



Latitude: 35.251682

Longitude: -90.906334

Inspector:

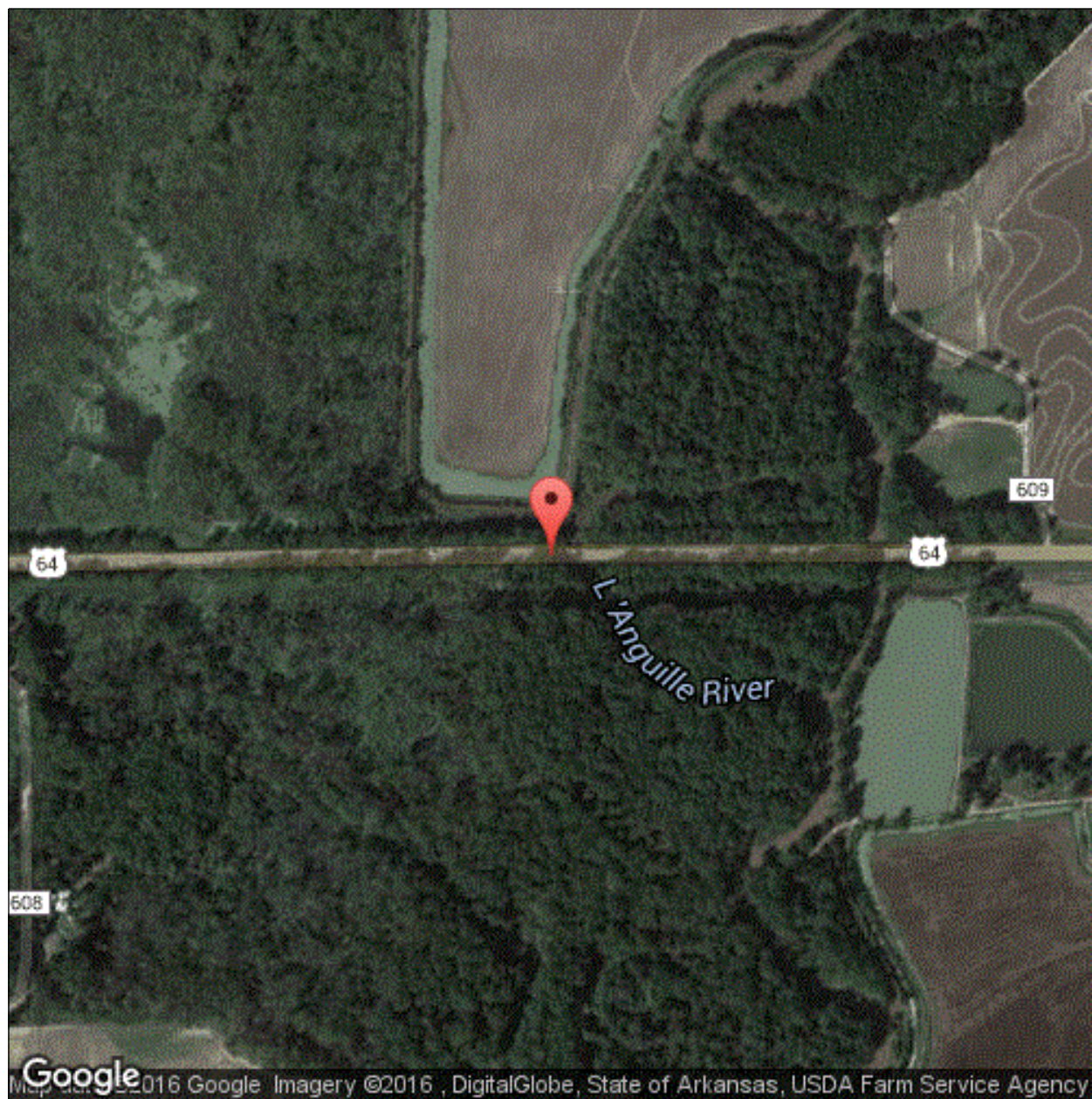
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Bridge Inspection Report

National Bridge Inventory

| IDENTIFICATION | | | | | | INSPECTIONS | | | | | | |
|---|--|--|---|------|----|---|----------------------------------|---------------------|---------------|--|--|--|
| (1) STATE CODE | | 056 - Arkansas | | | | (90) INSPECTION DATE | | 06/22/2016 | | | | |
| (8) STRUCTURE NUMBER | | 00518 | | | | (91) DESIGNATED INSPECTION FREQUENCY | | 24 | | | | |
| (5) INV. ROUTE (ON/UNDER) | | 1 | 2 | 1 | 64 | 0 | (92) CRITICAL FEATURE INSPECTION | | (93) CFI DATE | | | |
| (2) HIGHWAY AGENCY 01 | | (3) COUNTY CODE 037 | | | | A. FRACTURE CRITICAL DETAIL | | N | | | | |
| (4) PLACE CODE | | 74540 | | | | B. UNDERWATER INSPECTION | | N | | | | |
| (6) FEATURES INTERSECTED | | LANGUILLE RELIEF | | | | C. OTHER SPECIAL | | N | | | | |
| (7) FACILITY CARRIED | | US 64/sec15/L7.61 | | | | CONDITION | | | | | | |
| (9) LOCATION | | 6.35 MI W OF JCT SH 1 NO. | | | | (58) DECK | | 7 | | | | |
| (11) MILEPOINT 7.61 | | (12) BASE HIGHWAY NETWORK 1 | | | | (59) SUPERSTRUCTURE 7 | | (60) SUBSTRUCTURE 7 | | | | |
| (13A) LRS INVENTORY ROUTE 0000064150 | | (13B) SUBROUTE NUMBER 00 | | | | (61) CHANNEL & CHANNEL PROTECTION 8 | | (62) CULVERT N | | | | |
| (16) LATITUDE 35.251682 | | (17) LONGITUDE -90.906334 | | | | LOAD RATING AND POSTING | | | | | | |
| (98A) BORDER BRIDGE CODE | | | | | | (31) DESIGN LOAD | | 5 | | | | |
| PERCENT RESPONSIBILITY | | (99) BORDER BRIDGE STRUCT | | | | (63) METHOD USED TO DETERMINE OPERATING RATING | | 1 | | | | |
| STRUCTURE TYPE AND MATERIAL | | | | | | (64) OPERATING RATING | | 60.0 | | | | |
| (43) STRUCTURE TYPE, MAIN | | | | | | (65) METHOD USED TO DETERMINE INVENTORY RATING | | 1 | | | | |
| A) KIND OF MATERIAL/DESIGN: 1 - Concrete | | | | | | (66) INVENTORY RATING | | 36.0 | | | | |
| B) TYPE OF DESIGN/CONSTR: 01 - Slab | | | | | | (70) BRIDGE POSTING | | 5 | | | | |
| (44) STRUCTURE TYPE, APPROACH SPANS | | | | | | (41) STRUCTURE OPEN/POSTED/CLOSED | | A | | | | |
| A) KIND OF MATERIAL/DESIGN: 0 - Other | | | | | | APPRAISAL | | | | | | |
| B) TYPE OF DESIGN/CONSTR: 00 - Other | | | | | | (67) STRUCTURAL EVALUATION | | 7 | | | | |
| (45) NUMBER OF SPANS IN MAIN 6 | | (46) NUMBER OF APPROACH 0 | | | | (68) DECK GEOMETRY | | 4 | | | | |
| (107) DECK STRUCTURE TYPE 1 | | (108A) WEARING SURFACE 6 | | | | (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL | | N | | | | |
| (108B) DECK MEMBRANE 0 | | (108C) DECK PROTECTION 0 | | | | (71) WATERWAY ADEQUACY | | 8 | | | | |
| AGE OF SERVICE | | | | | | (72) APPROACH ROADWAY ALIGNMENT | | 8 | | | | |
| (27) YEAR BUILT 1963 | | (106) YEAR RECONSTRUCTED 0000 | | | | (36) TRAFFIC SAFETY FEATURE | | | | | | |
| (42) TYPE OF SERVICE ON 1 | | UNDER 5 | | | | 36A) BRIDGE RAILINGS: | | 0 | | | | |
| (28) LANES ON 02 | | UNDER 00 | | | | 36B) TRANSITIONS: | | 0 | | | | |
| (29) AVERAGE DAILY TRAFFIC 4000 | | (19) BYPASS DETOUR LENGTH 5 | | | | 36C) APPROACH GUARDRAIL: | | 0 | | | | |
| (30) YEAR OF AVERAGE DAILY TRAFFIC 2014 | | | | | | 36D) APPROACH GUARDRAIL ENDS: | | 1 | | | | |
| (109) AVERAGE DAILY TRUCK TRAFFIC 1 | | | | | | (113) SCOUR CRITICAL BRIDGES | | 5 | | | | |
| GEOMETRIC DATA | | | | | | SUFFICIENCY RATING 0 | | STATUS 79.1 | | | | |
| (48) LENGTH OF MAX SPAN (ft.) 30 | | | | | | (49) STRUCTURE LENGTH (ft.) 180 | | CLASSIFICATION | | | | |
| (50) CURB/SIDEWALK WIDTHS (ft.) LEFT 1.3 | | RIGHT 1.3 | | | | (112) NBIS BRIDGE LENGTH | | Y | | | | |
| (51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) | | 27.9 | | | | (104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE | | 0 | | | | |
| (52) DECK WIDTH, OUT-TO-OUT (ft.) | | 33.5 | | | | (26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE | | 06 | | | | |
| (32) APPROACH ROADWAY WIDTH (ft.) | | 40.0 | | | | (100) STRAHNET HIGHWAY DESIGNATION | | 0 | | | | |
| (33) BRIDGE MEDIAN 0 | | (34) SKEW (DEG.) 0 | | | | (101) PARALLEL STRUCTURE DESIGNATION | | N | | | | |
| (35) STRUCTURE FLARED 0 | | (10) INV RTE, MIN VERT CLEAR (ft.) 99.99 | | | | (102) DIRECTION OF TRAFFIC | | 2 | | | | |
| (47) TOTAL HORIZONTAL CLEARANCE (ft.) | | 30.8 | | | | (103) TEMP STRUCTURE | | | | | | |
| (53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99 | | | | | | (105) FEDERAL LANDS HIGHWAYS | | 0 | | | | |
| (54) VERTICAL UNDER CLEARANCE (ft.) | | N | | 0 | | (110) DESIGNATED NATIONAL NETWORK | | 0 | | | | |
| (55) LATERAL UNDER CLEARANCE RIGHT (ft.) | | N | | 99.9 | | (20) TOLL | | 3 | | | | |
| (56) MIN LATERAL UNDER CLEARANCE (ft.) | | 0 | | | | (21) MAINTENANCE RESPONSIBILITY | | 01 | | | | |
| PROPOSED IMPROVEMENTS | | | | | | (22) OWNER | | 01 | | | | |
| (75A) TYPE OF WORK PROPOSED | | (75B) WORK DONE BY | | | | (37) HISTORICAL | | 5 | | | | |
| (76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 0 | | | | | | NAVIGATION DATA | | | | | | |
| (94) BRIDGE IMPROVEMENT COST (\$) | | 0 | | | | (38) NAVIGATION CONTROL | | 0 | | | | |
| (95) ROADWAY IMPROVEMENT COST (\$) | | 0 | | | | (111) PIER OR ABUTMENT PROTECTION | | 1 | | | | |
| (96) TOTAL PROJECT COST | | 0 | | | | (39) NAV VERT CLEARANCE (ft.) | | 0 | | | | |
| (97) YEAR OF IMPROVEMENT COST ESTIMATE | | | | | | (116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.) | | 0 | | | | |
| (114) FUTURE ADT 4549 | | (115) YEAR OF FUTURE ADT 2028 | | | | (40) NAV HORIZONTAL CLEARANCE (ft.) | | 0 | | | | |

Inspector:

Structure Number: 00518

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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 |
|---|--|----------------|---------|-------------------|-------------------|-------------------|-------------------|
| 38 - Reinforced Concrete Slab | 1- Ben. | 6030 | sq. ft. | 5960 | 30 | 40 | 0 |
| | ABUTMENT #1 & 2 RIGHT & LEFT SIDES HAVE VEGETATION GROWING UNDER & BESIDE BRIDGE. Soffit has minor insignificant cracks with areas of light rust and efflorescence stains. Span 1 has 35 square feet of unsound repair patches. Span 2 has 10 square feet of sound patches. Sides of slab have hairline vertical flexure cracks spaced 1' apart. | | | | | | |
| 1120 - Efflorescence/Rust Staining | | 70 | | | 30 | 40 | |
| 510 - Wearing Surfaces | | 5040 | sq. ft. | 4995 | 10 | 35 | 0 |
| 3210 - Delamination/Spall/Patched Area/Pothole (Wearing Surfaces) | | 45 | | | 10 | 35 | |
| 215 - Reinforced Concrete Abutment | 1- Ben. | 75 | ft. | 75 | | | |
| 227 - Reinforced Concrete Pile | 1- Ben. | 25 | each | 21 | 4 | 0 | 0 |
| | BENT #2 COLUMN #5 HAS SEVERAL 6" PIECES OF REBAR AT TOP AHEAD FACE | | | | | | |
| 1090 - Exposed Rebar | | 4 | | | 4 | | |
| 234 - Reinforced Concrete Pier Cap | 1- Ben. | 153 | ft. | 140 | 4 | 9 | 0 |
| | Bt. 2 cap AHEAD FACE over Pile 2 has 6 in POPOFF with exposed rebar. BENT #3 CAP AHEAD FACE HAS 1' DELAMINATION ABOVE PILE #4. Bt. 3 bottom cap has 6 in x 6 in shelled off area with exposed rebar BETWEEN PILE #1 & 2. BENT #4 CAP LEFT END BACK FACE HAS 2' POPOFF. Bt. 5 bottom cap has several small shelled off areas (6 in x 6 in TYP) BETWEEN PILE #4 & 5. Bt. 5 has a 2 Ft. x 1 Ft. shelled off area Lt. end AHEAD FACE over pile 1. Bt. 6 RT END bottom cap has 2 ft. x 2 ft. shelled off area with exposed rebar. All exposed rebar some section loss 1/8 in. or less. BENT #6 CAP BOTTOM AT PILE #2 HAS 6" POPOFF WITH REBAR EXPOSED. | | | | | | |
| 1080 - Delamination/Spall/Patched Area | | 8 | | | 1 | 7 | |
| 1090 - Exposed Rebar | | 5 | | | 3 | 2 | |
| 301 - Pourable Joint Seal | 1- Ben. | 235 | ft. | 235 | | | |
| 330 - Metal Bridge Railing | 1- Ben. | 360 | ft. | 360 | | | |
| | SPAN #2 RIGHT SIDE FIRST POST HAS COLLISION DAMAGE, SPALLED AT BOTTOM WITH REBAR EXPOSED. | | | | | | |
| 515 - Steel Protective Coating | | 1080 | sq. ft. | 1080 | | | |

Agency Inventory

Structural

BRIDGE GROUP

WEARING SURFACE THICKNESS IN

WEATHERING STEEL No

PIN / HANGER No

STAY IN PLACE FORMS No

STEEL TONS Tons(41) STRUCTURE
OPEN/POSTED/CLOSED A**Location**ROAD / ROUTE NAME SECTION ZONE **Seismic**

SEISMIC

SEISMIC YEAR / ZONE **Notification**SCHOOL DISTRICT EMAIL OWNER EMAIL

LATE REASON

Load Po**Calculated**

CODE 4 VEHICLE (22 tons)

CODE 9 VEHICLE (31 tons)

CODE 5 VEHICLE (40 tons)

Posted

Bridge Beginning

CODE 4 TonsCODE 9 TonsCODE 5 Tons**Stip**

APHN

STIP

JOB NUMBER

PROG. JOB NUMBER

OLD BRIDGE NUMBER

NEW BRIDGE NUMBER

BRIDGE CONDITION INDEX

Notes

VEGETATION & LARGE TREES ARE GROWING UNDER & BESIDE BRIDGE IN SPAN #4 RIGHT SIDE.
Several animal holes under each abutment.

Inspector:

Structure Number: 00518

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 06/22/2016

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Each abutment has several animal holes under them.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Typical animal hole.

Inspector:

Structure Number: 00518

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Bridge Inspection Report

Maintenance Needs

Date Reported: 6/12/2012 12:00:00 AM

Priority: D - Routine

Work Code: N/A

Deficiency Description:

LEFT & RIGHT GUTTERS HAVE VEGETATION GROWING IN THEM.

Work Description:

Gutters have been sprayed since last inspection.

Date Repairs Completed: 06/22/2016

Maintenance Comments:

Gutters have been sprayed since last inspection.

Stage: Monitor



PHOTO 1 Description Gutters have been sprayed since last inspection.

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 06/22/2016

Priority: C - Important

Work Code: N/A

Deficiency Description:

VEGETATION & LARGE TREES ARE GROWING UNDER & BESIDE BRIDGE IN SPAN #4 RIGHT SIDE.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Vegetation.