

Bridge Inspection Report

A5056
I 30, WB LNS-38.42
over
CARUSE CREEK



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: A5056

Inspection Date:

Facility Carried: I 30, WB LNS-38.42

Bridge Inspection Report

National Bridge Inventory

| IDENTIFICATION | | INSPECTIONS | |
|---|-----------------------------|---|---------------|
| (1) STATE CODE | 056 - Arkansas | (90) INSPECTION DATE | 01/30/2017 |
| (8) STRUCTURE NUMBER | A5056 | (91) DESIGNATED INSPECTION FREQUENCY | 24 |
| (5) INV. ROUTE (ON/UNDER) | 1 1 1 30 4 | (92) CRITICAL FEATURE INSPECTION | (93) CFI DATE |
| (2) HIGHWAY AGENCY | 03 | (3) COUNTY CODE | 057 |
| (4) PLACE CODE | 00000 | A. FRACTURE CRITICAL DETAIL | N |
| (6) FEATURES INTERSECTED | CARUSE CREEK | B. UNDERWATER INSPECTION | N |
| (7) FACILITY CARRIED | I 30, WB LNS-38.42 | C. OTHER SPECIAL | N |
| (9) LOCATION | 8.43 MI. E. OF S.H. 278 JCT | CONDITION | |
| (11) MILEPOINT | 38.420 | (58) DECK | 7 |
| (12) BASE HIGHWAY NETWORK | 0 | (59) SUPERSTRUCTURE | 7 |
| (13A) LRS INVENTORY ROUTE | 0000000000 | (60) SUBSTRUCTURE | 7 |
| (13B) SUBROUTE NUMBER | 00 | (61) CHANNEL & CHANNEL PROTECTION | 7 |
| (16) LATITUDE | 33.75770 | (62) CULVERT | N |
| (17) LONGITUDE | -93.49592 | LOAD RATING AND POSTING | |
| (98A) BORDER BRIDGE CODE | | (31) DESIGN LOAD | 6 |
| PERCENT RESPONSIBILITY | (99) BORDER BRIDGE STRUCT | (63) METHOD USED TO DETERMINE OPERATING RATING | 1 |
| STRUCTURE TYPE AND MATERIAL | | (64) OPERATING RATING | 55 |
| (43) STRUCTURE TYPE, MAIN | | (65) METHOD USED TO DETERMINE INVENTORY RATING | 1 |
| A) KIND OF MATERIAL/DESIGN: | 1 - Concrete | (66) INVENTORY RATING | 33 |
| 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 | (68) DECK GEOMETRY | 6 |
| (46) NUMBER OF APPROACH | 0 | (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL | N |
| (107) DECK STRUCTURE TYPE | 1 | (71) WATERWAY ADEQUACY | 6 |
| (108A) WEARING SURFACE | 6 | (72) APPROACH ROADWAY ALIGNMENT | 8 |
| (108B) DECK MEMBRANE | 0 | (36) TRAFFIC SAFETY FEATURE | |
| (108C) DECK PROTECTION | 0 | 36A) BRIDGE RAILINGS: | 1 |
| AGE OF SERVICE | | 36B) TRANSITIONS: | 1 |
| (27) YEAR BUILT | 1972 | 36C) APPROACH GUARDRAIL: | 1 |
| (106) YEAR RECONSTRUCTED | 0000 | 36D) APPROACH GUARDRAIL ENDS: | 1 |
| (42) TYPE OF SERVICE | ON 1 UNDER 5 | (113) SCOUR CRITICAL BRIDGES | 8 |
| (28) LANES | ON 02 UNDER 00 | SUFFICIENCY RATING | 92.7 |
| (29) AVERAGE DAILY TRAFFIC | 41732 | STATUS | 0 |
| (19) BYPASS DETOUR LENGTH | 1 | CLASSIFICATION | |
| (30) YEAR OF AVERAGE DAILY TRAFFIC | 2013 | (112) NBIS BRIDGE LENGTH | Y |
| (109) AVERAGE DAILY TRUCK TRAFFIC | 48 | (104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE | 1 |
| GEOMETRIC DATA | | (26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE | 01 |
| (48) LENGTH OF MAX SPAN (ft.) | 35 | (100) STRAHNET HIGHWAY DESIGNATION | 1 |
| (49) STRUCTURE LENGTH (ft.) | 210 | (101) PARALLEL STRUCTURE DESIGNATION | L |
| (50) CURB/SIDEWALK WIDTHS (ft.) | LEFT 0.5 RIGHT 0.5 | (102) DIRECTION OF TRAFFIC | 1 |
| (51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) | 39.0 | (103) TEMP STRUCTURE | |
| (52) DECK WIDTH, OUT-TO-OUT (ft.) | 42 | (105) FEDERAL LANDS HIGHWAYS | 0 |
| (32) APPROACH ROADWAY WIDTH (ft.) | 38.1 | (110) DESIGNATED NATIONAL NETWORK | 1 |
| (33) BRIDGE MEDIAN | 0 | (20) TOLL | 3 |
| (34) SKEW (DEG.) | 33 | (21) MAINTENANCE RESPONSIBILITY | 01 |
| (35) STRUCTURE FLARED | 0 | (22) OWNER | 01 |
| (10) INV RTE, MIN VERT CLEAR (ft.) | 99.99 | (37) HISTORICAL | 5 |
| (47) TOTAL HORIZONTAL CLEARANCE (ft.) | 39.4 | NAVIGATION DATA | |
| (53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) | 99.99 | (38) NAVIGATION CONTROL | 0 |
| (54) VERTICAL UNDER CLEARANCE (ft.) | N 0 | (111) PIER OR ABUTMENT PROTECTION | 1 |
| (55) LATERAL UNDER CLEARANCE RIGHT (ft.) | N 99.9 | (39) NAV VERT CLEARANCE (ft.) | 0 |
| (56) MIN LATERAL UNDER CLEARANCE (ft.) | 0 | (116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.) | 0 |
| PROPOSED IMPROVEMENTS | | (40) NAV HORIZONTAL CLEARANCE (ft.) | 0 |
| (75A) TYPE OF WORK PROPOSED | (75B) WORK DONE BY | | |
| (76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) | 0 | | |
| (94) BRIDGE IMPROVEMENT COST (\$) | 0 | | |
| (95) ROADWAY IMPROVEMENT COST (\$) | 0 | | |
| (96) TOTAL PROJECT COST | 0 | | |
| (97) YEAR OF IMPROVEMENT COST ESTIMATE | 0000 | | |
| (114) FUTURE ADT | 13726 | | |
| (115) YEAR OF FUTURE ADT | 2028 | | |

Inspector:

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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. | 8820 | sq. ft. | 8010 | 800 | 10 | 0 |
| | 1080- Delam on bottom of slab in span 1 1120- cracks with efflorescence and rust staining in all spans bottom of slab 1130- cracks in bottom of slab all spans 3220- cracks in AC overlay over joints | | | | | | |
| 1080 - Delamination/Spall/Patched Area | | 10 | | | | 10 | |
| 1120 - Efflorescence/Rust Staining | | 400 | | | 400 | | |
| 1130 - Cracking (RC and Other) | | 400 | | | 400 | | |
| 510 - Wearing Surfaces | | 8190 | sq. ft. | 7920 | 270 | 0 | 0 |
| 3220 - Crack (Wearing Surface) | | 270 | | | 270 | | |
| 215 - Reinforced Concrete Abutment | 1- Ben. | 110 | ft. | 110 | | | |
| 227 - Reinforced Concrete Pile | 1- Ben. | 45 | each | 45 | | | |
| 234 - Reinforced Concrete Pier Cap | 1- Ben. | 312 | ft. | 302 | 0 | 10 | 0 |
| | 1080/1090- spalls with rebar exposed on caps various locations | | | | | | |
| 1080 - Delamination/Spall/Patched Area | | 5 | | | | 5 | |
| 1090 - Exposed Rebar | | 5 | | | | 5 | |
| 330 - Metal Bridge Railing | 1- Ben. | 410 | ft. | 410 | | | |

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Bridge Inspection Report

Maintenance Needs

Date Reported: 4/6/2009 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

CONC. CAP SPALLS AND DELAMS

BENT #2, EAST FACE SPALL

BENT #3, EAST FACE SPALL

BENT #4, WEST FACE DELAM

BENT #5 EAST FACE SPALL

BENT #5 WEST FACE REBAR EXPOSED

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Bent 2 east face

Stage: Assigned



PHOTO 2 Description Bent 3 cap east face over pile 3

Inspector:

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 3 Description Bent 3 east face over pile 7

Stage: Assigned

Stage: Assigned



PHOTO 5 Description Bent 5 west face spalls

Stage: Assigned



PHOTO 4 Description Bent 4 west face delam



PHOTO 6 Description Bent 5 cap west face rebar exposed

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 1/29/2013 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

BOTTOM OF CAP SPALLS WITH REBAR EXPOSED

BENT 2 BETWEEN PILING 8&9

BENT 5 BETWEEN PILING 1&2

BENT 5 BETWEEN PILING 8&9

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Bottom of cap bent 2 between pile 8 and 9

Stage: Assigned



PHOTO 2 Description Bottom of bent 5 cap between pile 8 & 9

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Bridge Inspection Report

Maintenance Needs

Stage: Assigned



| | | |
|---------|-------------|---|
| PHOTO 3 | Description | Bottom of bent 5 cap between pile 1 & 2 |
|---------|-------------|---|

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Maintenance Needs

Date Reported: 1/29/2013 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

EROSION

BENT 7 CAP, LEFT SIDE SOME EROSION UNDER CAP

BENT 4, EROSION AROUND PILING FROM HIGH WATER EVENT

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Erosion bent 4

Stage: Assigned



PHOTO 2 Description Erosion under bent 7 cap left side