

Bridge Inspection Report

**02226
SH 28
over
Browns Creek**



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: 02226

Inspection Date:

Facility Carried: SH 28

Bridge Inspection Report

National Bridge Inventory

| IDENTIFICATION | | INSPECTIONS | |
|---|--|---|---------------|
| (1) STATE CODE | 056 - Arkansas | (90) INSPECTION DATE | 07/20/2016 |
| (8) STRUCTURE NUMBER | 02226 | (91) DESIGNATED INSPECTION FREQUENCY | 24 |
| (5) INV. ROUTE (ON/UNDER) | 1 3 1 28 0 | (92) CRITICAL FEATURE INSPECTION | (93) CFI DATE |
| (2) HIGHWAY AGENCY | 08 (3) COUNTY CODE 149 | A. FRACTURE CRITICAL DETAIL | N |
| (4) PLACE CODE | 00000 | B. UNDERWATER INSPECTION | N |
| (6) FEATURES INTERSECTED | Browns Creek | C. OTHER SPECIAL | N |
| (7) FACILITY CARRIED | SH 28 | | |
| (9) LOCATION | 1.5 Mi W of Plainview | | |
| (11) MILEPOINT 3.510 | (12) BASE HIGHWAY NETWORK 0 | | |
| (13A) LRS INVENTORY ROUTE | 0000000000 (13B) SUBROUTE NUMBER 00 | | |
| (16) LATITUDE 34.98461 | (17) LONGITUDE -93.33163 | | |
| (98A) BORDER BRIDGE CODE | | | |
| PERCENT RESPONSIBILITY | (99) BORDER BRIDGE STRUCT | | |
| STRUCTURE TYPE AND MATERIAL | | CONDITION | |
| (43) STRUCTURE TYPE, MAIN | | (58) DECK | 6 |
| A) KIND OF MATERIAL/DESIGN: 1 - Concrete | | (59) SUPERSTRUCTURE | 5 |
| B) TYPE OF DESIGN/CONSTR: 22 - Channel Beam | | (60) SUBSTRUCTURE | 7 |
| (44) STRUCTURE TYPE, APPROACH SPANS | | (61) CHANNEL & CHANNEL PROTECTION | 7 |
| 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 2 | (108A) WEARING SURFACE 6 | | |
| (108B) DECK MEMBRANE 0 | (108C) DECK PROTECTION 0 | | |
| AGE OF SERVICE | | LOAD RATING AND POSTING | |
| (27) YEAR BUILT 1952 | (106) YEAR RECONSTRUCTED 0000 | (31) DESIGN LOAD | 2 |
| (42) TYPE OF SERVICE ON 1 UNDER 5 | | (63) METHOD USED TO DETERMINE OPERATING RATING | 1 |
| (28) LANES ON 02 UNDER 00 | | (64) OPERATING RATING | 60.0 |
| (29) AVERAGE DAILY TRAFFIC 1200 | (19) BYPASS DETOUR LENGTH 7 | (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 1 | | (70) BRIDGE POSTING | 5 |
| | | (41) STRUCTURE OPEN/POSTED/CLOSED | A |
| GEOMETRIC DATA | | APPRAISAL | |
| (48) LENGTH OF MAX SPAN (ft.) 19 | (49) STRUCTURE LENGTH (ft.) 114 | (67) STRUCTURAL EVALUATION | 5 |
| (50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0 | | (68) DECK GEOMETRY | 3 |
| (51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 23.3 | | (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL | N |
| (52) DECK WIDTH, OUT-TO-OUT (ft.) 24.6 | | (71) WATERWAY ADEQUACY | 8 |
| (32) APPROACH ROADWAY WIDTH (ft.) 27.9 | | (72) APPROACH ROADWAY ALIGNMENT | 8 |
| (33) BRIDGE MEDIAN 0 | (34) SKEW (DEG.) 0 | (36) TRAFFIC SAFETY FEATURE | |
| (35) STRUCTURE FLARED 0 | (10) INV RTE, MIN VERT CLEAR (ft.) 99.99 | 36A) BRIDGE RAILINGS: | 0 |
| (47) TOTAL HORIZONTAL CLEARANCE (ft.) 24.0 | | 36B) TRANSITIONS: | 0 |
| (53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99 | | 36C) APPROACH GUARDRAIL: | 0 |
| (54) VERTICAL UNDER CLEARANCE (ft.) N 0 | | 36D) APPROACH GUARDRAIL ENDS: | 0 |
| (55) LATERAL UNDER CLEARANCE RIGHT (ft.) N 99.9 | | (113) SCOUR CRITICAL BRIDGES | 8 |
| (56) MIN LATERAL UNDER CLEARANCE (ft.) 0 | | SUFFICIENCY RATING | 2 |
| | | STATUS | 66.0 |
| PROPOSED IMPROVEMENTS | | CLASSIFICATION | |
| (75A) TYPE OF WORK PROPOSED 31 | (75B) WORK DONE BY 1 | (112) NBIS BRIDGE LENGTH | Y |
| (76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 142.0 | | (104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE | 0 |
| (94) BRIDGE IMPROVEMENT COST (\$) 0 | | (26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE | 07 |
| (95) ROADWAY IMPROVEMENT COST (\$) 117 | | (100) STRAHNET HIGHWAY DESIGNATION | 0 |
| (96) TOTAL PROJECT COST 368 | | (101) PARALLEL STRUCTURE DESIGNATION | N |
| (97) YEAR OF IMPROVEMENT COST ESTIMATE 2002 | | (102) DIRECTION OF TRAFFIC | 2 |
| (114) FUTURE ADT 2044 | (115) YEAR OF FUTURE ADT 2028 | (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 | 1 |
| | | (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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Element Inspection

| | Environment | Total Quantity | Units | Condition State 1 | Condition State 2 | Condition State 3 | Condition State 4 |
|---|--|----------------|---------|-------------------|-------------------|-------------------|-------------------|
| 12 - Reinforced Concrete Deck | 1- Ben. | 2804 | sq. ft. | 2804 | | | |
| |  5" asphalt surface - Major transverse cracks over all joints and a few moderate longitudinal cracks. | | | | | | |
| 510 - Wearing Surfaces | | 2645 | sq. ft. | 2480 | 0 | 165 | 0 |
| 3220 - Crack (Wearing Surface) | | 165 | | | | 165 | |
| 110 - Reinforced Concrete Open Girder/Beam | 1- Ben. | 798 | ft. | 199 | 218 | 381 | 0 |
| | Spalls with rebar exposed, delamination and cracks throughout. Minor section loss of some reinforcing steel. See attached notes for Channel Beams for complete details. Beams are transverse bolted. | | | | | | |
| 1080 - Delamination/Spall/Patched Area | | 207 | | | | 207 | |
| 1130 - Cracking (RC and Other) | | 392 | | | 218 | 174 | |
| 205 - Reinforced Concrete Column | 1- Ben. | 10 | each | 10 | | | |
| | Columns at pier #s 3 & 4 has minor scale at water line. | | | | | | |
| 215 - Reinforced Concrete Abutment | 1- Ben. | 50 | ft. | 49 | 1 | 0 | 0 |
| | Minor spall in cap under right leg of beam # 5, but no rebar exposed. Minor erosion under both abutment caps. | | | | | | |
| 1080 - Delamination/Spall/Patched Area | | 1 | | | 1 | | |
| 234 - Reinforced Concrete Pier Cap | 1- Ben. | 123 | ft. | 119 | 4 | 0 | 0 |
| | Caps at pier #'s 2 & 6 have some minor spalls, no rebar exposed. | | | | | | |
| 1080 - Delamination/Spall/Patched Area | | 4 | | | 4 | | |
| 330 - Metal Bridge Railing | 1- Ben. | 228 | ft. | 128 | 100 | 0 | 0 |
| | Bridge rail on right side is in good condition and has steel post. Bridge rail on left side has minor rust throughout and concrete post. Post #9 has major section loss of concrete in the lower part of post. | | | | | | |
| 1000 - Corrosion | | 100 | | | 100 | | |
| 515 - Steel Protective Coating | | 684 | sq. ft. | 342 | 92 | 100 | 150 |
| 3440 - Effectiveness (Steel Protective Coatings) | | 342 | | | 92 | 100 | 150 |