

Bridge Inspection Report

A3081
US 70-SEC 9B EB
over
SH 7 Spur



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

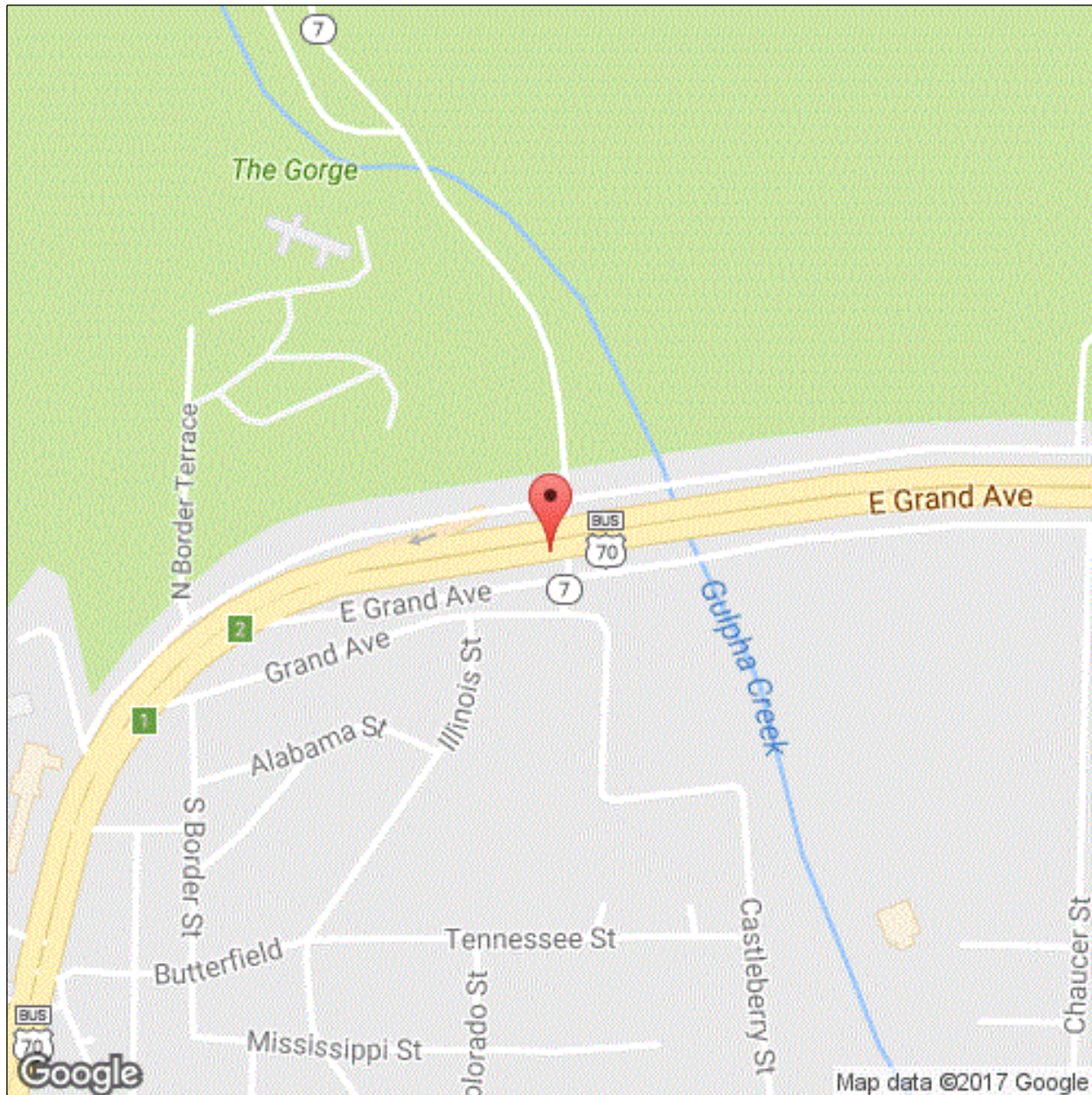
Structure Number: A3081

Inspection Date:

Facility Carried: US 70-SEC 9B EB

Bridge Inspection Report

Location Map



Latitude: 34.51893

Longitude: -93.03350

Inspector:

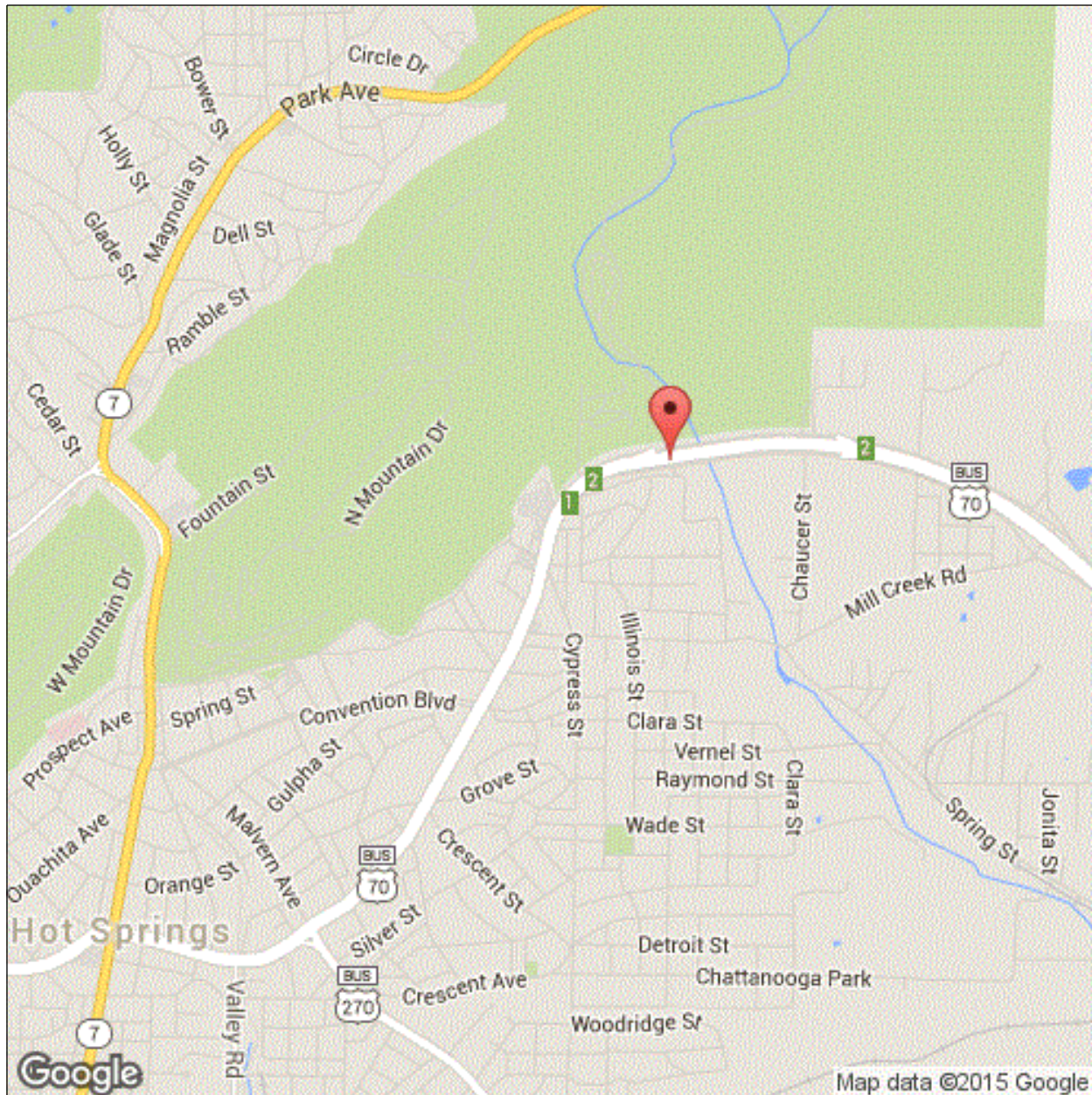
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Location Map



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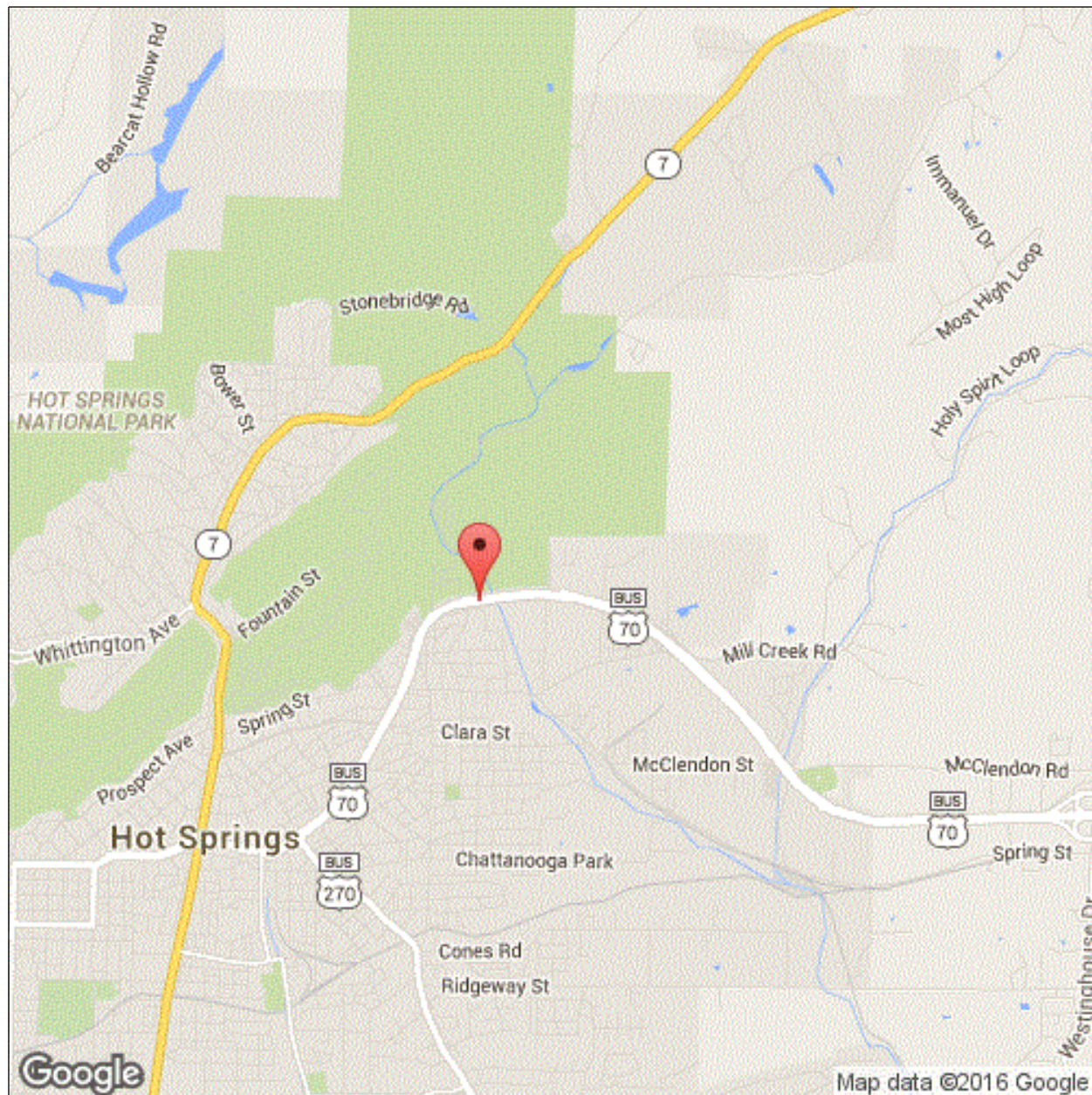
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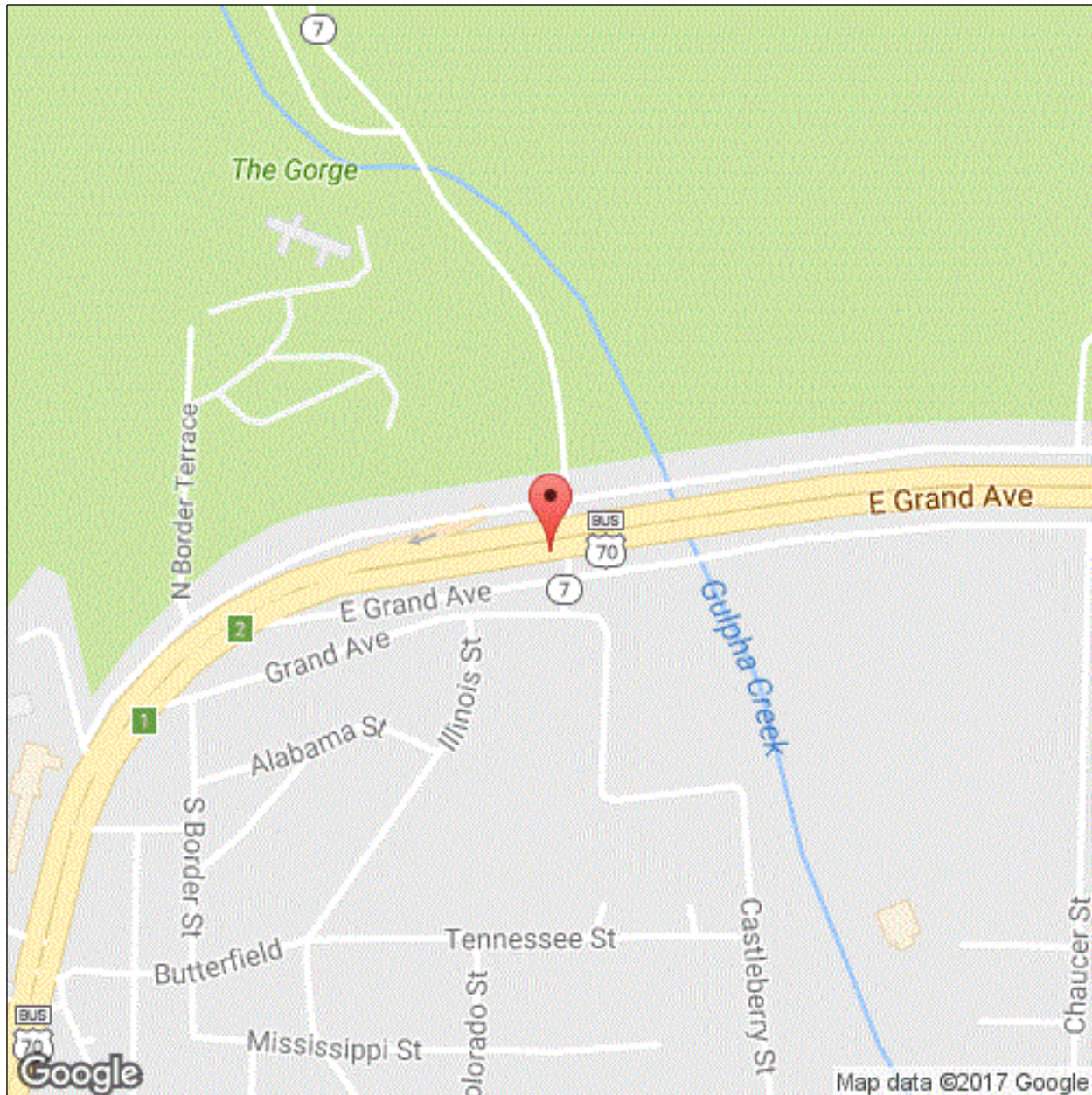
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Executive Summary

Job 6616 dwg 8978

Approach looking east

Special inspection for under clearance less than 15'

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National Bridge Inventory

| IDENTIFICATION | | INSPECTIONS | |
|--------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------|-----------------------|
| (1) STATE CODE | 056 - Arkansas | (90) INSPECTION DATE | 05/26/2016 |
| (8) STRUCTURE NUMBER | A3081 | (91) DESIGNATED INSPECTION FREQUENCY | 24 |
| (5) INV. ROUTE (ON/UNDER) | 1 2 6 70 2 | (92) CRITICAL FEATURE INSPECTION | (93) CFI DATE |
| (2) HIGHWAY AGENCY | 06 (3) COUNTY CODE 051 | A. FRACTURE CRITICAL DETAIL | N |
| (4) PLACE CODE | 32540 | B. UNDERWATER INSPECTION | N |
| (6) FEATURES INTERSECTED | SH 7 Spur | C. OTHER SPECIAL | Y 24 05/01/2017 |
| (7) FACILITY CARRIED | US 70-SEC 9B EB | | |
| (9) LOCATION | 1.89 MI E SH 7 HOT SPRING | | |
| (11) MILEPOINT 1.890 | (12) BASE HIGHWAY NETWORK 1 | | |
| (13A) LRS INVENTORY ROUTE | 000007009B (13B) SUBROUTE NUMBER 00 | | |
| (16) LATITUDE 34.51893 | (17) LONGITUDE -93.03350 | | |
| (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: 3 - Steel | | (59) SUPERSTRUCTURE | 6 (60) SUBSTRUCTURE 5 |
| B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder | | (61) CHANNEL & CHANNEL PROTECTION | N (62) CULVERT N |
| (44) STRUCTURE TYPE, APPROACH SPANS | | | |
| A) KIND OF MATERIAL/DESIGN: 0 - Other | | | |
| B) TYPE OF DESIGN/CONSTR: 00 - Other | | | |
| (45) NUMBER OF SPANS IN MAIN 3 | (46) NUMBER OF APPROACH 0 | | |
| (107) DECK STRUCTURE TYPE 1 | (108A) WEARING SURFACE 6 | | |
| (108B) DECK MEMBRANE 0 | (108C) DECK PROTECTION 0 | | |
| AGE OF SERVICE | | LOAD RATING AND POSTING | |
| (27) YEAR BUILT 1958 | (106) YEAR RECONSTRUCTED 0000 | (31) DESIGN LOAD | 4 |
| (42) TYPE OF SERVICE ON 1 UNDER 1 | | (63) METHOD USED TO DETERMINE OPERATING RATING | 1 |
| (28) LANES ON 02 UNDER 02 | | (64) OPERATING RATING | 60.0 |
| (29) AVERAGE DAILY TRAFFIC 8600 | (19) BYPASS DETOUR LENGTH 1 | (65) METHOD USED TO DETERMINE INVENTORY RATING | 1 |
| (30) YEAR OF AVERAGE DAILY TRAFFIC 2013 | | (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.) 60 | (49) STRUCTURE LENGTH (ft.) 132 | (67) STRUCTURAL EVALUATION | 5 |
| (50) CURB/SIDEWALK WIDTHS (ft.) LEFT 2.3 RIGHT 2.3 | | (68) DECK GEOMETRY | 2 |
| (51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) | 27.9 | (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL | 6 |
| (52) DECK WIDTH, OUT-TO-OUT (ft.) | 33.6 | (71) WATERWAY ADEQUACY | N |
| (32) APPROACH ROADWAY WIDTH (ft.) | 34.1 | (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.) | 30.8 | 36B) TRANSITIONS: | 0 |
| (53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) | 99.99 | 36C) APPROACH GUARDRAIL: | 0 |
| (54) VERTICAL UNDER CLEARANCE (ft.) | H 14.83 | 36D) APPROACH GUARDRAIL ENDS: | 0 |
| (55) LATERAL UNDER CLEARANCE RIGHT (ft.) | H 19.6 | (113) SCOUR CRITICAL BRIDGES | N |
| (56) MIN LATERAL UNDER CLEARANCE (ft.) | 11 | SUFFICIENCY RATING | 2 STATUS 65.8 |
| 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.) | 161.0 | (104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE | 1 |
| (94) BRIDGE IMPROVEMENT COST (\$) | 0 | (26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE | 12 |
| (95) ROADWAY IMPROVEMENT COST (\$) | 190 | (100) STRAHNET HIGHWAY DESIGNATION | 0 |
| (96) TOTAL PROJECT COST | 568 | (101) PARALLEL STRUCTURE DESIGNATION | R |
| (97) YEAR OF IMPROVEMENT COST ESTIMATE | 2003 | (102) DIRECTION OF TRAFFIC | 1 |
| (114) FUTURE ADT 3700 | (115) YEAR OF FUTURE ADT 2033 | (103) TEMP STRUCTURE | |
| | | (105) FEDERAL LANDS HIGHWAYS | 0 |
| | | (110) DESIGNATED NATIONAL NETWORK | 1 |
| | | (20) TOLL | 3 |
| | | (21) MAINTENANCE RESPONSIBILITY | 01 |
| | | (37) HISTORICAL | 5 |
| | | NAVIGATION DATA | |
| | | (38) NAVIGATION CONTROL | N |
| | | (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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National Bridge Inventory

UNDER RECORD 2

IDENTIFICATION

| | | | |
|---------------------------|----------------|---------------------------|----------------------------------------------------|
| (1) STATE CODE | 056 - Arkansas | (7) FACILITY CARRIED | US 70-SEC 9B EB |
| (3) COUNTY CODE | 051 | (8) STRUCTURE NUMBER | A3081 |
| (4) PLACE CODE | 32540 | (9) LOCATION | 1.89 MI E SH 7 HOT SPRING |
| (5) INV. ROUTE (ON/UNDER) | 2 3 4 00007 0 | (11) MILEPOINT | 0.030 (12) BASE HIGHWAY NETWORK 0 |
| (6) FEATURES INTERSECTED | SH 7 Spur | (13A) LRS INVENTORY ROUTE | 0000000000 (13B) SUBROUTE NUMBER 00 |
| | | (16) LATITUDE | 34. 5189444444445 (17) LONGITUDE -93.0333888888889 |

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE, MAIN A) KIND OF MATERIAL/DESIGN: 3 - Steel
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder

AGE OF SERVICE

| | | | |
|----------------------------|----------------|------------------------------------|--------------|
| (19) BYPASS DETOUR LENGTH | 1 | (30) YEAR OF AVERAGE DAILY TRAFFIC | 2014 |
| (27) YEAR BUILT | 1958 | (42) TYPE OF SERVICE | ON 1 UNDER 1 |
| (28) LANES | ON 02 UNDER 02 | (109) AVERAGE DAILY TRUCK TRAFFIC | 1 |
| (29) AVERAGE DAILY TRAFFIC | 6600 | | |

GEOMETRIC DATA

| | | | | | |
|----------------------------------|------|-----------------------------|----|-----------------------|-----|
| (10) INV RTE, MIN VERT CLEARANCE | 14.8 | (48) LENGTH OF MAXIMUM SPAN | 60 | (49) STRUCTURE LENGTH | 132 |
| (47) TOTAL HORIZONTAL CLEARANCE | 52.5 | | | | |

CLASSIFICATION

| | | | |
|---------------------------------------------------|----|---------------------------------------------|---|
| (20) TOLL | 3 | (102) DIRECTION OF TRAFFIC | 2 |
| (26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE | 16 | (103) TEMP STRUCTURE | |
| (100) STRAHNET HIGHWAY DESIGNATION | 0 | (104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE | 0 |
| (101) PARALLEL STRUCTURE DESIGNATION | R | (110) DESIGNATED NATIONAL NETWORK | 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. | 4356 | sq. ft. | 4071 | 275 | 10 | 0 |
| | The soffit has transverse cracks with efflorescence staining. | | | | | | |
| 1120 - Efflorescence/Rust Staining | | 285 | | | 275 | 10 | |
| 510 - Wearing Surfaces | | 3640 | sq. ft. | 3640 | | | |
| 107 - Steel Open Girder/Beam | 1- Ben. | 660 | ft. | 410 | 200 | 50 | 0 |
| | The beam ends have active rust with minimal protective coating. The outside of girders 1 and 5 have peeling paint and freckled rust. Span 2 girder 2 has active corrosion to the bottom flange. | | | | | | |
| 1000 - Corrosion | | 250 | | | 200 | 50 | |
| 515 - Steel Protective Coating | | 5940 | sq. ft. | 5085 | 725 | 130 | 0 |
| 3420 - Peeling/Bubbling/Cracking (Steel Protective Coatings) | | 855 | | | 725 | 130 | |
| 205 - Reinforced Concrete Column | 1- Ben. | 4 | each | 4 | | | |
| 215 - Reinforced Concrete Abutment | 1- Ben. | 72 | ft. | 72 | | | |
| 234 - Reinforced Concrete Pier Cap | 1- Ben. | 56 | ft. | 52 | 2 | 2 | 0 |
| | Bent 2: right end of cap with cracking and efflorescence buildup. Left end of cap has horizontal cracking. | | | | | | |
| 1120 - Efflorescence/Rust Staining | | 2 | | | | 2 | |
| 1130 - Cracking (RC and Other) | | 2 | | | 2 | | |
| 311 - Movable Bearing | 1- Ben. | 15 | each | 0 | 0 | 15 | 0 |
| | All moveable bearings have pack rust and section loss to the masonry plate. | | | | | | |
| 1000 - Corrosion | | 15 | | | | 15 | |
| 313 - Fixed Bearing | 1- Ben. | 15 | each | 0 | 15 | 0 | 0 |
| | All bearings have active corrosion. | | | | | | |
| 1000 - Corrosion | | 15 | | | 15 | | |
| 333 - Other Bridge Railing | 1- Ben. | 260 | ft. | 260 | | | |

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Pictures

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Bridge Inspection Report

Sketches

Inspector:

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Maintenance Needs