

# Bridge Inspection Report

**06318**  
**US 270 BYPASS**  
**over**  
**US 70B Log 0.04**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

## TABLE OF CONTENTS

|                           | PAGE NUMBER |
|---------------------------|-------------|
| LOCATION MAP              | 3           |
| NATIONAL BRIDGE INVENTORY | 7           |
| ELEMENTS                  | 8           |
| PICTURES                  | 9           |
| SKETCHES                  | 11          |

Inspector:

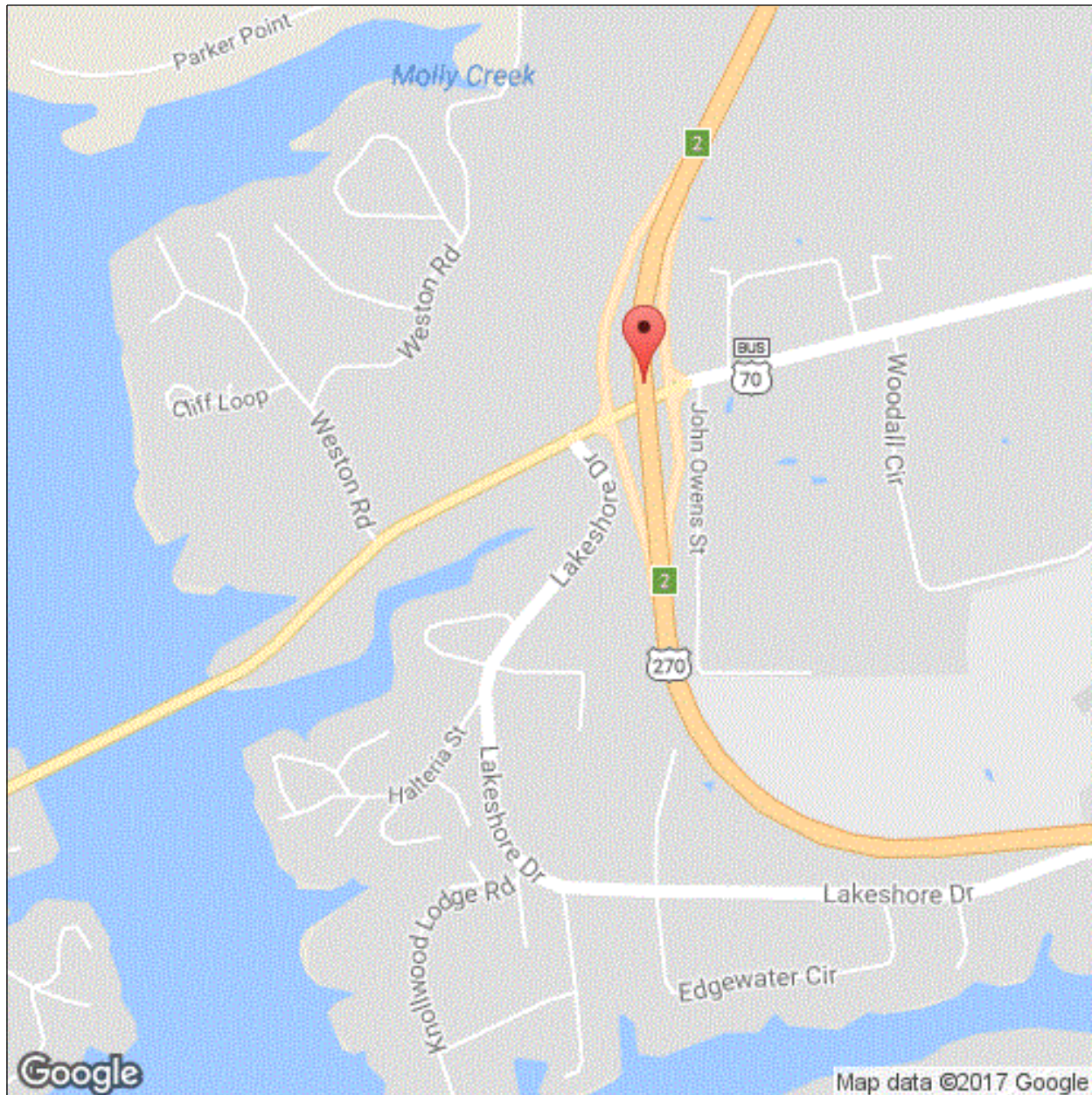
Structure Number: 06318

Inspection Date:

Facility Carried: US 270 BYPASS

## Bridge Inspection Report

### Location Map



Latitude: 34.478161

Longitude: -93.114967



Inspector:

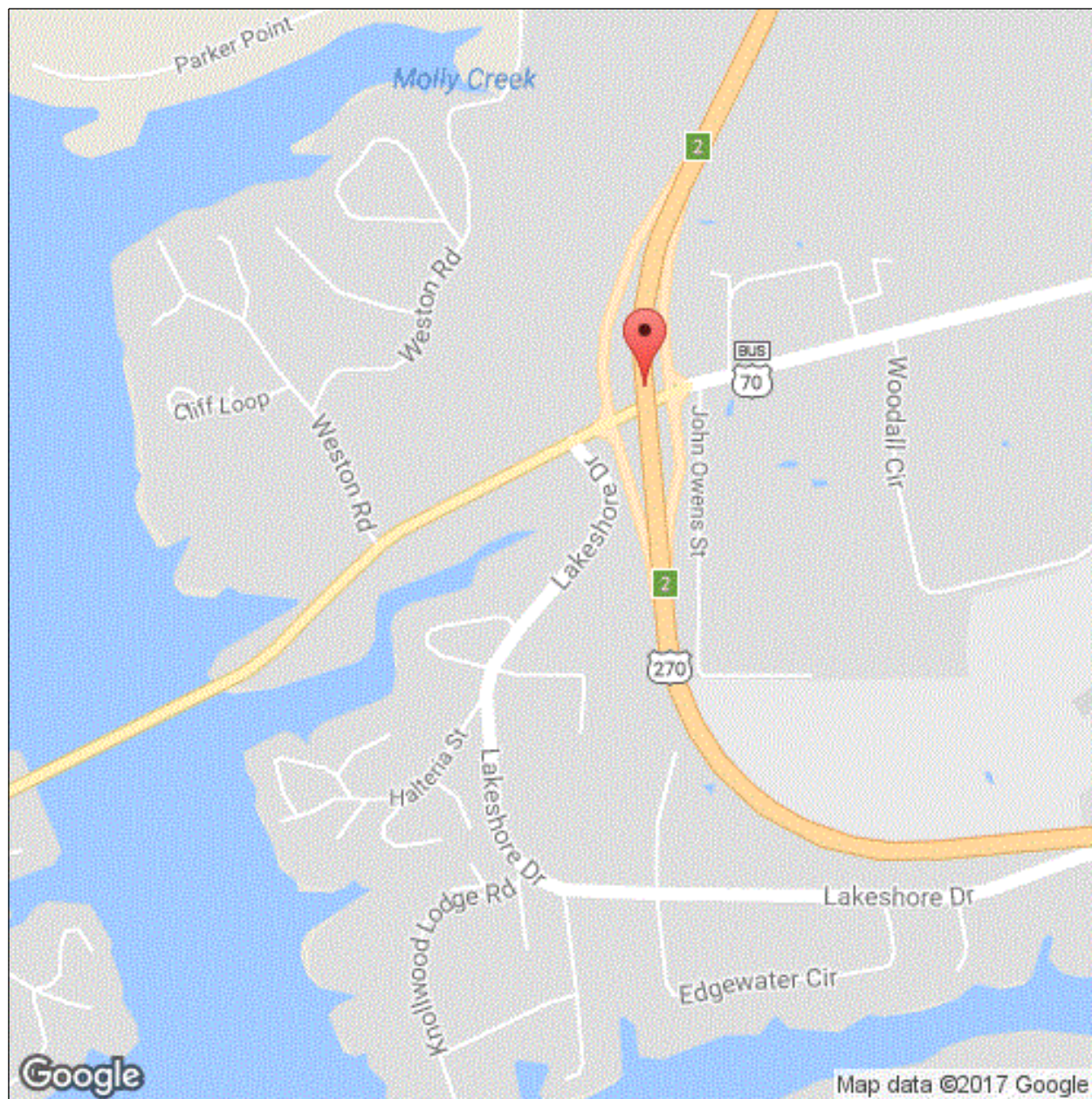
Structure Number: 06318

Inspection Date:

Facility Carried: US 270 BYPASS

## Bridge Inspection Report

### Location Map



Latitude: 34.478161

Longitude: -93.114967



Inspector:

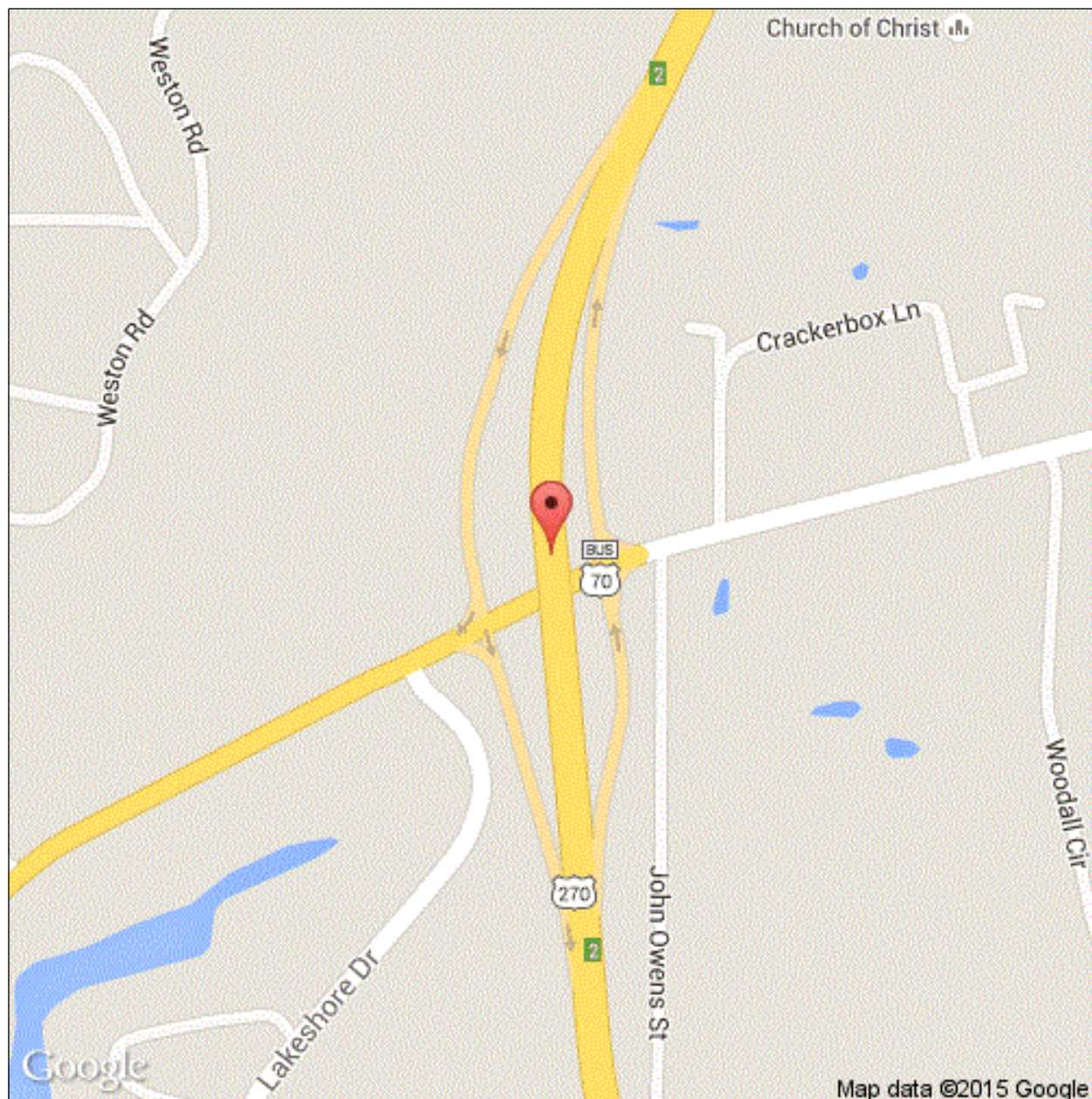
Structure Number: 06318

Inspection Date:

Facility Carried: US 270 BYPASS

## Bridge Inspection Report

### Location Map



Latitude: 34.478161

Longitude: -93.114967

Inspector:

Inspection Date:

Structure Number: 06318

Facility Carried: US 270 BYPASS

## Bridge Inspection Report

### Executive Summary

job 60079 dwg 30164.approach going east.

Inspector:

Structure Number: 06318

Inspection Date:

Facility Carried: US 270 BYPASS

## Bridge Inspection Report

## National Bridge Inventory

| IDENTIFICATION   |  | INSPECTIONS   |               |
|--|--|---|---------------|
| (1) STATE CODE   | 056 - Arkansas                           | (90) INSPECTION DATE  | 07/12/2017    |
| (8) STRUCTURE NUMBER   | 06318                                    | (91) DESIGNATED INSPECTION FREQUENCY                        | 24            |
| (5) INV. ROUTE (ON/UNDER)                                    | 1 2 3 270 0                              | (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                                     | US 70B Log 0.04                          | C. OTHER SPECIAL  | N             |
| (7) FACILITY CARRIED   | US 270 BYPASS                            |   |               |
| (9) LOCATION   | JCT US 270,70                            |   |               |
| (11) MILEPOINT 19.176  | (12) BASE HIGHWAY NETWORK 1              |   |               |
| (13A) LRS INVENTORY ROUTE                                    | 0000270050 (13B) SUBROUTE NUMBER 00      |   |               |
| (16) LATITUDE 34.478161                                      | (17) LONGITUDE -93.114967                |   |               |
| (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: 3 - Steel                        |  | (59) SUPERSTRUCTURE   | 7             |
| B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder |  | (60) SUBSTRUCTURE   | 7             |
| (44) STRUCTURE TYPE, APPROACH SPANS                          |  | (61) CHANNEL & CHANNEL PROTECTION                           | N             |
| A) KIND OF MATERIAL/DESIGN: 0 - Other                        |  | (62) CULVERT  | N             |
| 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 1                 |   |               |
| (108B) DECK MEMBRANE 0                                       | (108C) DECK PROTECTION 1                 |   |               |
| AGE OF SERVICE   |  | LOAD RATING AND POSTING                                     |               |
| (27) YEAR BUILT 1990   | (106) YEAR RECONSTRUCTED 0000            | (31) DESIGN LOAD  | 5             |
| (42) TYPE OF SERVICE ON 1 UNDER 1                            |  | (63) METHOD USED TO DETERMINE OPERATING RATING              | 1             |
| (28) LANES ON 04 UNDER 05                                    |  | (64) OPERATING RATING                                       | 60.0          |
| (29) AVERAGE DAILY TRAFFIC 24000                             | (19) BYPASS DETOUR LENGTH 0              | (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.) 92                             | (49) STRUCTURE LENGTH (ft.) 186          | (67) STRUCTURAL EVALUATION                                  | 7             |
| (50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0               |  | (68) DECK GEOMETRY  | 9             |
| (51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 80.1                 |  | (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL                 | 6             |
| (52) DECK WIDTH, OUT-TO-OUT (ft.) 84.8                       |  | (71) WATERWAY ADEQUACY                                      | N             |
| (32) APPROACH ROADWAY WIDTH (ft.) 80.1                       |  | (72) APPROACH ROADWAY ALIGNMENT                             | 8             |
| (33) BRIDGE MEDIAN 3   | (34) SKEW (DEG.) 20                      | (36) TRAFFIC SAFETY FEATURE                                 |               |
| (35) STRUCTURE FLARED 0                                      | (10) INV RTE, MIN VERT CLEAR (ft.) 99.99 | 36A) BRIDGE RAILINGS:                                       | 1             |
| (47) TOTAL HORIZONTAL CLEARANCE (ft.) 41.3                   |  | 36B) TRANSITIONS:   | 0             |
| (53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99      |  | 36C) APPROACH GUARDRAIL:                                    | 0             |
| (54) VERTICAL UNDER CLEARANCE (ft.) H 17.33                  |  | 36D) APPROACH GUARDRAIL ENDS:                               | 0             |
| (55) LATERAL UNDER CLEARANCE RIGHT (ft.) H 13                |  | (113) SCOUR CRITICAL BRIDGES                                | N             |
| (56) MIN LATERAL UNDER CLEARANCE (ft.) 12.8                  |  | SUFFICIENCY RATING  | 98.0          |
|  |  | STATUS  | 0             |
| PROPOSED IMPROVEMENTS  |  | CLASSIFICATION  |               |
| (75A) TYPE OF WORK PROPOSED                                  | (75B) WORK DONE BY                       | (112) NBIS BRIDGE LENGTH                                    | Y             |
| (76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 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 (\$)                           | 0  | (100) STRAHNET HIGHWAY DESIGNATION                          | 0             |
| (96) TOTAL PROJECT COST                                      | 0  | (101) PARALLEL STRUCTURE DESIGNATION                        | N             |
| (97) YEAR OF IMPROVEMENT COST ESTIMATE                       | 0000                                     | (102) DIRECTION OF TRAFFIC                                  | 2             |
| (114) FUTURE ADT 51262                                       | (115) YEAR OF FUTURE ADT 2028            | (103) TEMP STRUCTURE  |               |
|  |  | (105) FEDERAL LANDS HIGHWAYS                                | 0             |
|  |  | (110) DESIGNATED NATIONAL NETWORK                           | 1             |
|  |  | (20) TOLL   | 3             |
|  |  | (21) MAINTENANCE RESPONSIBILITY                             | 01            |
|  |  | (22) OWNER  | 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             |

Inspector:

Structure Number: 06318

Inspection Date:

Facility Carried: US 270 BYPASS

## Bridge Inspection Report

## Element Inspection

|   | Environment | Total Quantity | Units   | Condition State 1 | Condition State 2 | Condition State 3 | Condition State 4 |
|---|-------------|----------------|---------|-------------------|-------------------|-------------------|-------------------|
| 12 - Reinforced Concrete Deck   | 1- Ben.     | 15524          | sq. ft. | 14674             | 850               | 0                 | 0                 |
| Deck has unsealed cracks.   |             |                |         |                   |                   |                   |                   |
| 1130 - Cracking (RC and Other)  |             | 850            |         | 0                 | 850               | 0                 | 0                 |
| 107 - Steel Open Girder/Beam  | 1- Ben.     | 2013           | ft.     | 2013              | 0                 | 0                 | 0                 |
| All beams have chalking paint and scattered areas of freckling rust     |             |                |         |                   |                   |                   |                   |
| 515 - Steel Protective Coating  |             | 17781          | sq. ft. | 0                 | 17781             | 0                 | 0                 |
| 3410 - Chalking (Steel Protective Coatings)                             |             | 17531          |         | 0                 | 17531             | 0                 | 0                 |
| 3440 - Effectiveness (Steel Protective Coatings)                        |             | 250            |         | 0                 | 250               | 0                 | 0                 |
| 205 - Reinforced Concrete Column  | 1- Ben.     | 8              | each    | 7                 | 1                 | 0                 | 0                 |
| 1130 - Cracking (RC and Other)  |             | 1              |         | 0                 | 1                 | 0                 | 0                 |
| 215 - Reinforced Concrete Abutment                                      | 1- Ben.     | 180            | ft.     | 143               | 37                | 0                 | 0                 |
| Small cracks with efflorescence   |             |                |         |                   |                   |                   |                   |
| 1120 - Efflorescence/Rust Staining                                      |             | 6              |         | 0                 | 6                 | 0                 | 0                 |
| 1130 - Cracking (RC and Other)  |             | 31             |         | 0                 | 31                | 0                 | 0                 |
| 234 - Reinforced Concrete Pier Cap                                      | 1- Ben.     | 178            | ft.     | 170               | 8                 | 0                 | 0                 |
| 1130 - Cracking (RC and Other)  |             | 8              |         | 0                 | 8                 | 0                 | 0                 |
| 302 - Compression Joint Seal  | 1- Ben.     | 350            | ft.     | 130               | 200               | 20                | 0                 |
| All Joint seals are leaking. At Bent 3 20 foot of joint seal has fallen |             |                |         |                   |                   |                   |                   |
| 2310 - Leakage  |             | 200            |         | 0                 | 200               | 0                 | 0                 |
| 2320 - Seal Adhesion  |             | 20             |         | 0                 | 0                 | 20                | 0                 |
| 311 - Movable Bearing   | 1- Ben.     | 33             | each    | 0                 | 33                | 0                 | 0                 |
| All bearings have slight surface rust.                                  |             |                |         |                   |                   |                   |                   |
| 313 - Fixed Bearing   | 1- Ben.     | 33             | each    | 0                 | 33                | 0                 | 0                 |
| All bearings have slight surface rust.                                  |             |                |         |                   |                   |                   |                   |
| 331 - Reinforced Concrete Bridge Railing                                | 1- Ben.     | 558            | ft.     | 501               | 57                | 0                 | 0                 |
| 1130 - Cracking (RC and Other)  |             | 57             |         | 0                 | 57                | 0                 | 0                 |



Inspector:

Inspection Date:

Structure Number: 06318

Facility Carried: US 270 BYPASS

## Bridge Inspection Report

### Pictures

PHOTO 1

Description

PHOTO 1

Description

Inspector:

Inspection Date:

Structure Number: 06318

Facility Carried: US 270 BYPASS

## Bridge Inspection Report

### Pictures

PHOTO 2

Description

Inspector:

Inspection Date:

Structure Number: 06318

Facility Carried: US 270 BYPASS

## Bridge Inspection Report

Sketches



Inspector:

Structure Number: 06318

Inspection Date:

Facility Carried: US 270 BYPASS

## Bridge Inspection Report

### Maintenance Needs

Date Reported: 07/28/2015

Priority: C - Important

Work Code:

---

#### Deficiency Description:

20 feet of joint seal has fallen out over bent 3 eastbound lanes. And all other joint seals are leaking causing debris to build up around bearing areas.

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Monitor



PHOTO 1      Description      20' of joint seal in eastbound lane at bent 3 has fallen out.

Inspector:

Structure Number: 06318

Inspection Date:

Facility Carried: US 270 BYPASS

## Bridge Inspection Report

### Maintenance Needs

Date Reported: 07/28/2015

Priority: C - Important

Work Code:

---

Deficiency Description:

Deck has unsealed cracks.

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Open



PHOTO 1    Description    Deck cracks