

# Bridge Inspection Report

06425  
US 270  
over  
SH 7



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

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Inspector:

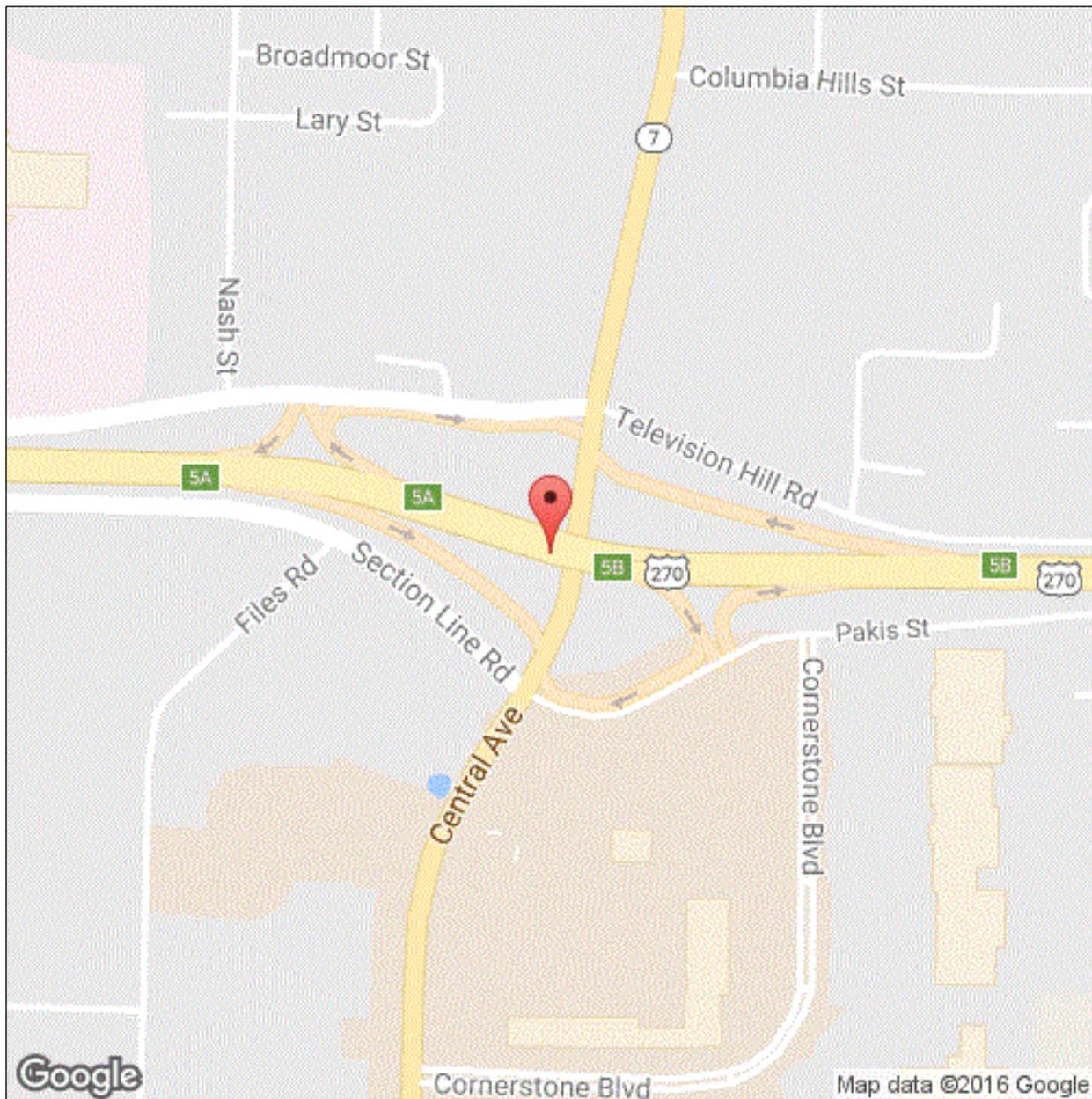
Structure Number: 06425

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Facility Carried: US 270

Bridge Inspection Report

Location Map



Latitude: 34.464996

Longitude: -93.060387

Inspector:

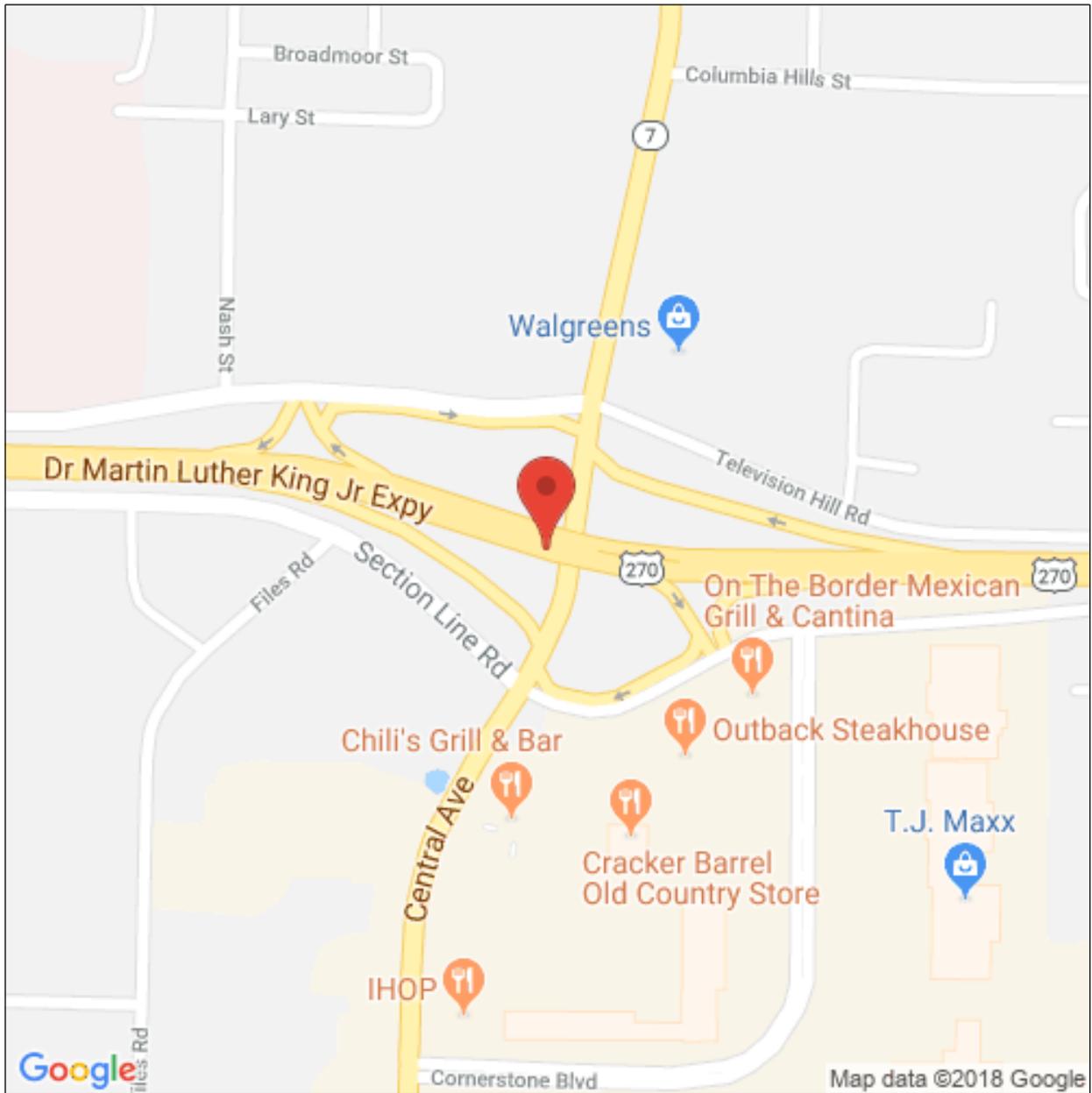
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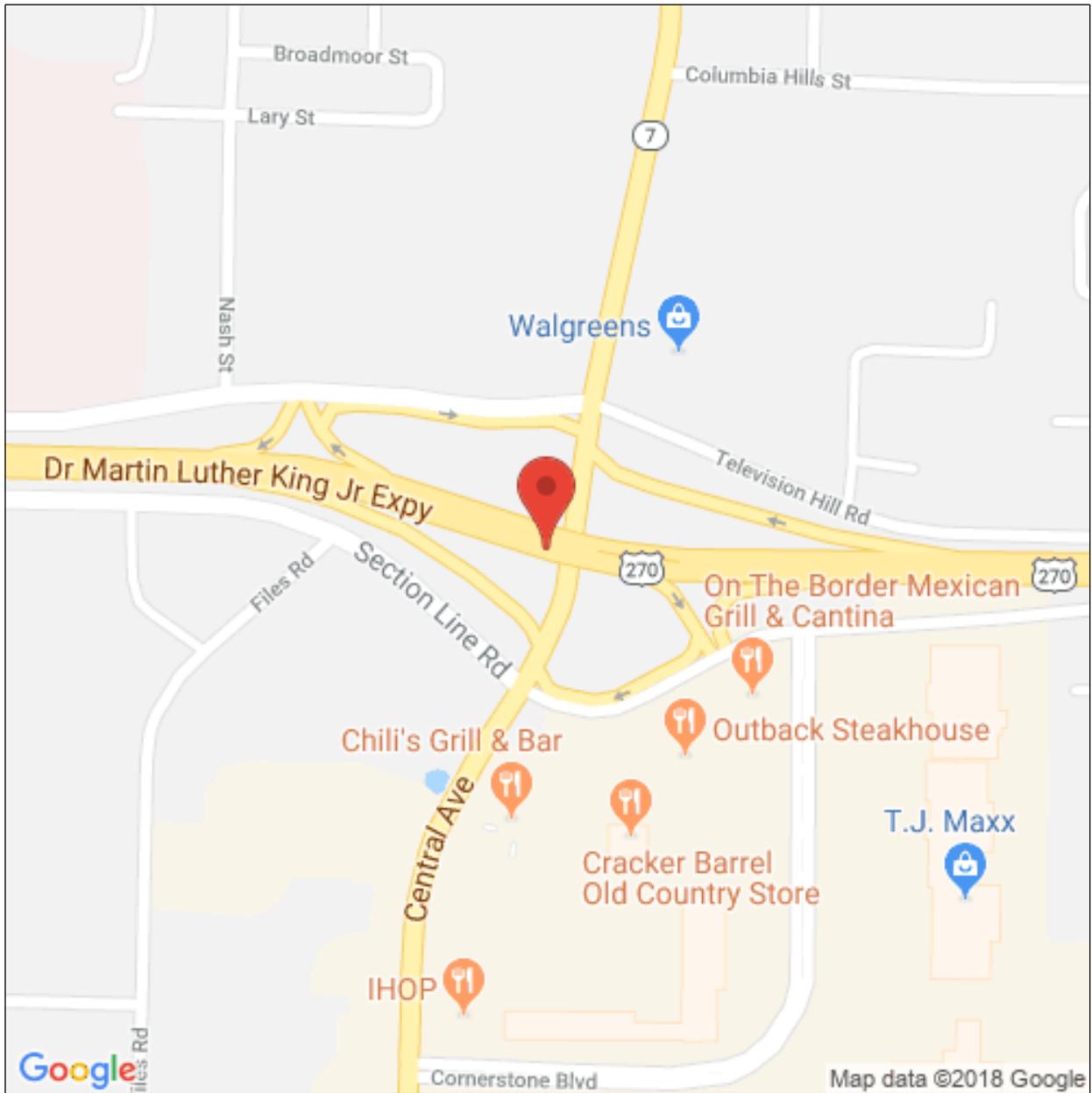
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Location Map



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Executive Summary

Job #060942, Drawing #44095 for layout.

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National Bridge Inventory

| IDENTIFICATION                                    |                                      | INSPECTIONS   |                       |
|---|--------------------------------------|---|-----------------------|
| (1) STATE CODE                                    | 056 - Arkansas                       | (90) INSPECTION DATE  | 08/28/2018            |
| (8) STRUCTURE NUMBER                              | 06425                                | (91) DESIGNATED INSPECTION FREQUENCY                        | 24                    |
| (5) INV. ROUTE (ON/UNDER)                         | 1 2 1 270 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                          | SH 7                                 | C. OTHER SPECIAL  | N                     |
| (7) FACILITY CARRIED                              | US 270                               | CONDITION   |                       |
| (9) LOCATION                                      | JCT US 270 BYPS&SH 7                 | (58) DECK   | 8                     |
| (11) MILEPOINT 22.880                             | (12) BASE HIGHWAY NETWORK 1          | (59) SUPERSTRUCTURE   | 8 (60) SUBSTRUCTURE 7 |
| (13A) LRS INVENTORY ROUTE                         | 0000270050 (13B) SUBROUTE NUMBER 00  | (61) CHANNEL & CHANNEL PROTECTION                           | N (62) CULVERT N      |
| (16) LATITUDE 34.464996                           | (17) LONGITUDE -93.060387            | 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:                       | 3 - Steel                            | (66) INVENTORY RATING                                       | 36.0                  |
| B) TYPE OF DESIGN/CONSTR:                         | 02 - Stringer/Multi-beam or Girder   | (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                      | 3 (46) NUMBER OF APPROACH            | (68) DECK GEOMETRY  | 7                     |
| (107) DECK STRUCTURE TYPE                         | 1 (108A) WEARING SURFACE             | (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL                 | 4                     |
| (108B) DECK MEMBRANE                              | 0 (108C) DECK PROTECTION             | (71) WATERWAY ADEQUACY                                      | N                     |
|   | 1                                    | (72) APPROACH ROADWAY ALIGNMENT                             | 8                     |
| AGE OF SERVICE                                    |                                      | (36) TRAFFIC SAFETY FEATURE                                 |                       |
| (27) YEAR BUILT                                   | 1994 (106) YEAR RECONSTRUCTED        | 36A) BRIDGE RAILINGS:                                       | 1                     |
| (42) TYPE OF SERVICE                              | ON 1 UNDER 1                         | 36B) TRANSITIONS:   | 1                     |
| (28) LANES  | ON 06 UNDER 05                       | 36C) APPROACH GUARDRAIL:                                    | 1                     |
| (29) AVERAGE DAILY TRAFFIC                        | 30000 (19) BYPASS DETOUR LENGTH      | 36D) APPROACH GUARDRAIL ENDS:                               | 1                     |
| (30) YEAR OF AVERAGE DAILY TRAFFIC                | 2013                                 | (113) SCOUR CRITICAL BRIDGES                                | N                     |
| (109) AVERAGE DAILY TRUCK TRAFFIC                 | 1                                    | SUFFICIENCY RATING  | 98.0 STATUS 0         |
| GEOMETRIC DATA                                    |                                      | CLASSIFICATION  |                       |
| (48) LENGTH OF MAX SPAN (ft.)                     | 88 (49) STRUCTURE LENGTH (ft.)       | (112) NBIS BRIDGE LENGTH                                    | Y                     |
| (50) CURB/SIDEWALK WIDTHS (ft.)                   | LEFT 0 RIGHT 0                       | (104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE                 | 1                     |
| (51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)           | 96.1                                 | (26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE           | 12                    |
| (52) DECK WIDTH, OUT-TO-OUT (ft.)                 | 101.2                                | (100) STRAHNET HIGHWAY DESIGNATION                          | 0                     |
| (32) APPROACH ROADWAY WIDTH (ft.)                 | 98.1                                 | (101) PARALLEL STRUCTURE DESIGNATION                        | N                     |
| (33) BRIDGE MEDIAN                                | 3 (34) SKEW (DEG.)                   | (102) DIRECTION OF TRAFFIC                                  | 2                     |
| (35) STRUCTURE FLARED                             | 0 (10) INV RTE, MIN VERT CLEAR (ft.) | (103) TEMP STRUCTURE  |                       |
| (47) TOTAL HORIZONTAL CLEARANCE (ft.)             | 48.9                                 | (105) FEDERAL LANDS HIGHWAYS                                | 0                     |
| (53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) | 99.99                                | (110) DESIGNATED NATIONAL NETWORK                           | 1                     |
| (54) VERTICAL UNDER CLEARANCE (ft.)               | H 17.25                              | (20) TOLL   | 3                     |
| (55) LATERAL UNDER CLEARANCE RIGHT (ft.)          | H 6.2                                | (21) MAINTENANCE RESPONSIBILITY                             | 01                    |
| (56) MIN LATERAL UNDER CLEARANCE (ft.)            | 7.6                                  | (37) HISTORICAL   | 5                     |
| PROPOSED IMPROVEMENTS                             |                                      | NAVIGATION DATA   |                       |
| (75A) TYPE OF WORK PROPOSED                       | (75B) WORK DONE BY                   | (38) NAVIGATION CONTROL                                     | N                     |
| (76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)        | 0                                    | (111) PIER OR ABUTMENT PROTECTION                           | 1                     |
| (94) BRIDGE IMPROVEMENT COST (\$)                 | 0                                    | (39) NAV VERT CLEARANCE (ft.)                               | 0                     |
| (95) ROADWAY IMPROVEMENT COST (\$)                | 0                                    | (116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.) | 0                     |
| (96) TOTAL PROJECT COST                           | 0                                    | (40) NAV HORIZONTAL CLEARANCE (ft.)                         | 0                     |
| (97) YEAR OF IMPROVEMENT COST ESTIMATE            |                                      |   |                       |
| (114) FUTURE ADT                                  | 33518 (115) YEAR OF FUTURE ADT       |   |                       |
|   | 2027                                 |   |                       |

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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.     | 15787          | sq. ft. | 14512             | 1275              | 0                 | 0                 |
| 8/28/2018-KRM & RLS- Overhang soffit has cracks with efflorescence. The widened sections of a the deck on both sides has transverse cracking. The original deck has longitudinal cracks.      |             |                |         |                   |                   |                   |                   |
| 1120 - Efflorescence/Rust Staining  |             | 88             |         | 0                 | 88                | 0                 | 0                 |
| 1130 - Cracking (RC and Other)  |             | 1187           |         | 0                 | 1187              | 0                 | 0                 |
| 107 - Steel Open Girder/Beam  | 1- Ben.     | 2028           | ft.     | 2028              | 0                 | 0                 | 0                 |
| 8/28/2018-KRM & RLS- Beams 2&12 ( the original exterior beams) are chalking on the original exposed faces. Beam 13 is chalking on the outside face. Beam 11 is chalking at various locations. |             |                |         |                   |                   |                   |                   |
| 515 - Steel Protective Coating  |             | 17663          | sq. ft. | 16211             | 1452              | 0                 | 0                 |
| 3410 - Chalking (Steel Protective Coatings)   |             | 1452           |         | 0                 | 1452              | 0                 | 0                 |
| 205 - Reinforced Concrete Column  | 1- Ben.     | 12             | each    | 10                | 2                 | 0                 | 0                 |
| 8/28/2018-KRM & RLS- Bent 3, column 1, spalled. Column 6 has minor horizontal cracks.   |             |                |         |                   |                   |                   |                   |
| 1080 - Delamination/Spall/Patched Area  |             | 1              |         | 0                 | 1                 | 0                 | 0                 |
| 1130 - Cracking (RC and Other)  |             | 1              |         | 0                 | 1                 | 0                 | 0                 |
| 215 - Reinforced Concrete Abutment  | 1- Ben.     | 203            | ft.     | 185               | 18                | 0                 | 0                 |
| 8/28/2018 - KRM & RLS - Cracks with efflorescence in the back wall of bent 1 and 4.   |             |                |         |                   |                   |                   |                   |
| 1120 - Efflorescence/Rust Staining  |             | 18             |         | 0                 | 18                | 0                 | 0                 |
| 234 - Reinforced Concrete Pier Cap  | 1- Ben.     | 203            | ft.     | 203               | 0                 | 0                 | 0                 |
| 8/28/2018-KRM & RLS- No noticeable defects at this inspection.  |             |                |         |                   |                   |                   |                   |
| 301 - Pourable Joint Seal   | 1- Ben.     | 202            | ft.     | 129               | 73                | 0                 | 0                 |
| 8/28/2018-KRM & RLS- The seals at bents 1,2 & 3 have some adhesion loss with minor leakage. All joints have debris impaction.   |             |                |         |                   |                   |                   |                   |
| 2310 - Leakage  |             | 21             |         | 0                 | 21                | 0                 | 0                 |
| 2320 - Seal Adhesion  |             | 20             |         | 0                 | 20                | 0                 | 0                 |
| 2350 - Debris Impaction   |             | 32             |         | 0                 | 32                | 0                 | 0                 |
| 310 - Elastomeric Bearing   | 1- Ben.     | 26             | each    | 26                | 0                 | 0                 | 0                 |
| 8/28/2018-KRM & RLS- No noticeable defects at this inspection.  |             |                |         |                   |                   |                   |                   |
| 311 - Movable Bearing   | 1- Ben.     | 26             | each    | 26                | 0                 | 0                 | 0                 |
| 8/28/2018-KRM & RLS- No noticeable defects at this inspection.  |             |                |         |                   |                   |                   |                   |
| 313 - Fixed Bearing   | 1- Ben.     | 26             | each    | 25                | 1                 | 0                 | 0                 |
| 8/28/2018 - KRM & RLS - Bent 4 bearing 1 has corrosion.   |             |                |         |                   |                   |                   |                   |
| 1000 - Corrosion  |             | 1              |         | 0                 | 1                 | 0                 | 0                 |

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Element Inspection

|  |         |     |     |     |    |   |   |
|--|---------|-----|-----|-----|----|---|---|
| 331 - Reinforced Concrete Bridge Railing                                 | 1- Ben. | 474 | ft. | 439 | 29 | 6 | 0 |
| 8/28/2018 - KRM & RLS - Cracks in all rails. Spall on right rail span 2. |         |     |     |     |    |   |   |
| 1080 - Delamination/Spall/Patched Area                                   |         | 1   |     | 0   | 1  | 0 | 0 |
| 1130 - Cracking (RC and Other)   |         | 34  |     | 0   | 28 | 6 | 0 |

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Bridge Inspection Report

Pictures

PHOTO 1

Description

PHOTO 1

Description

Inspector:

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Inspection Date:

Facility Carried: US 270

Bridge Inspection Report

Pictures

PHOTO 2

Description

PHOTO 2

Description

Inspector:

Structure Number: 06425

Inspection Date:

Facility Carried: US 270

Bridge Inspection Report

Pictures

PHOTO 3

Description

Inspector:

Structure Number: 06425

Inspection Date:

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Bridge Inspection Report

Sketches

Inspector:

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Bridge Inspection Report

Maintenance Needs