

Bridge Inspection Report

B3853
Clark I-30 EBS-14
over
BAYOU DE ROCHE



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

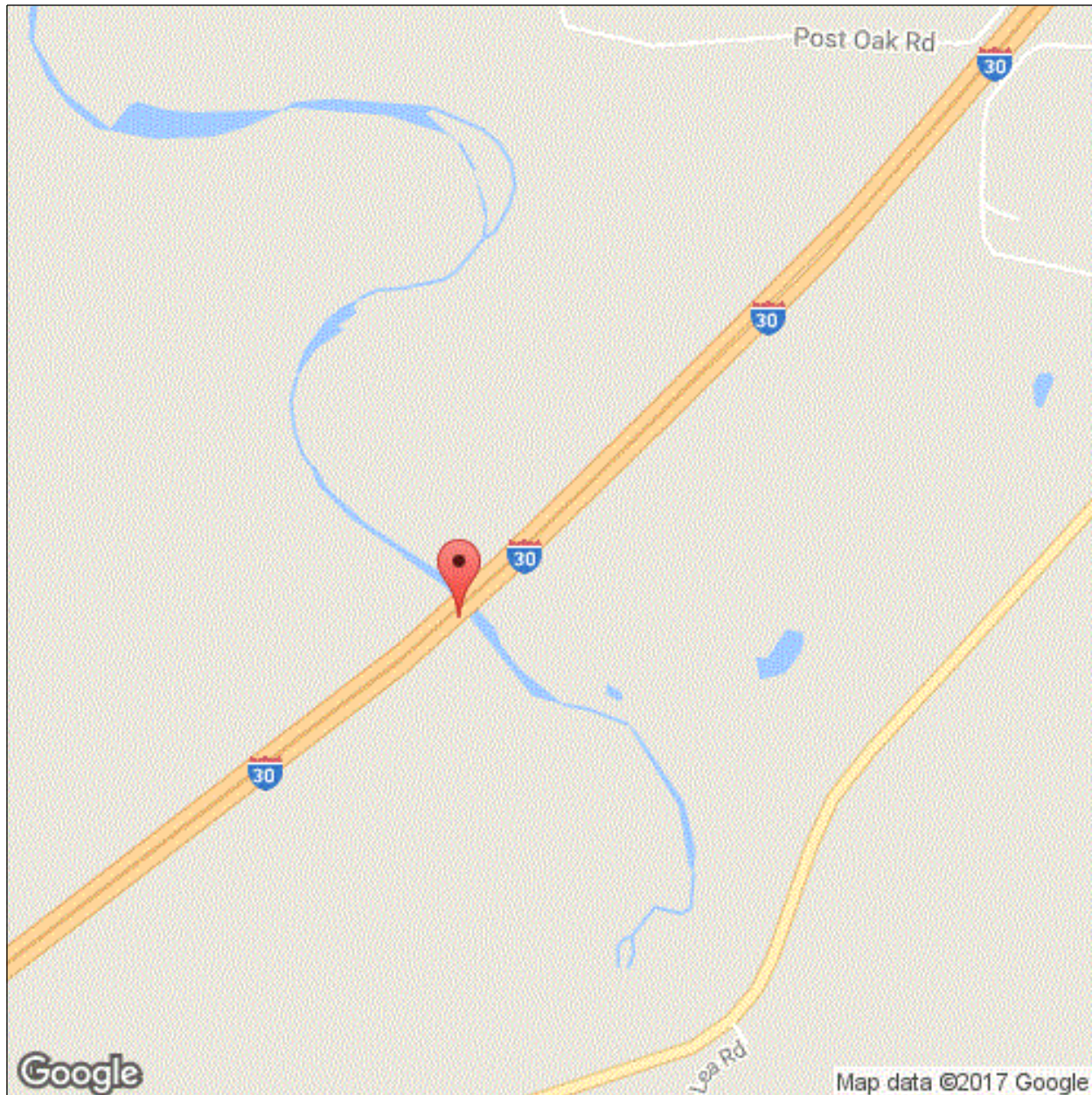
Inspection Date:

Structure Number: B3853

Facility Carried: Clark I-30 EBS-14

Bridge Inspection Report

Location Map



Latitude: 34.21329

Longitude: -93.03110

Inspector:

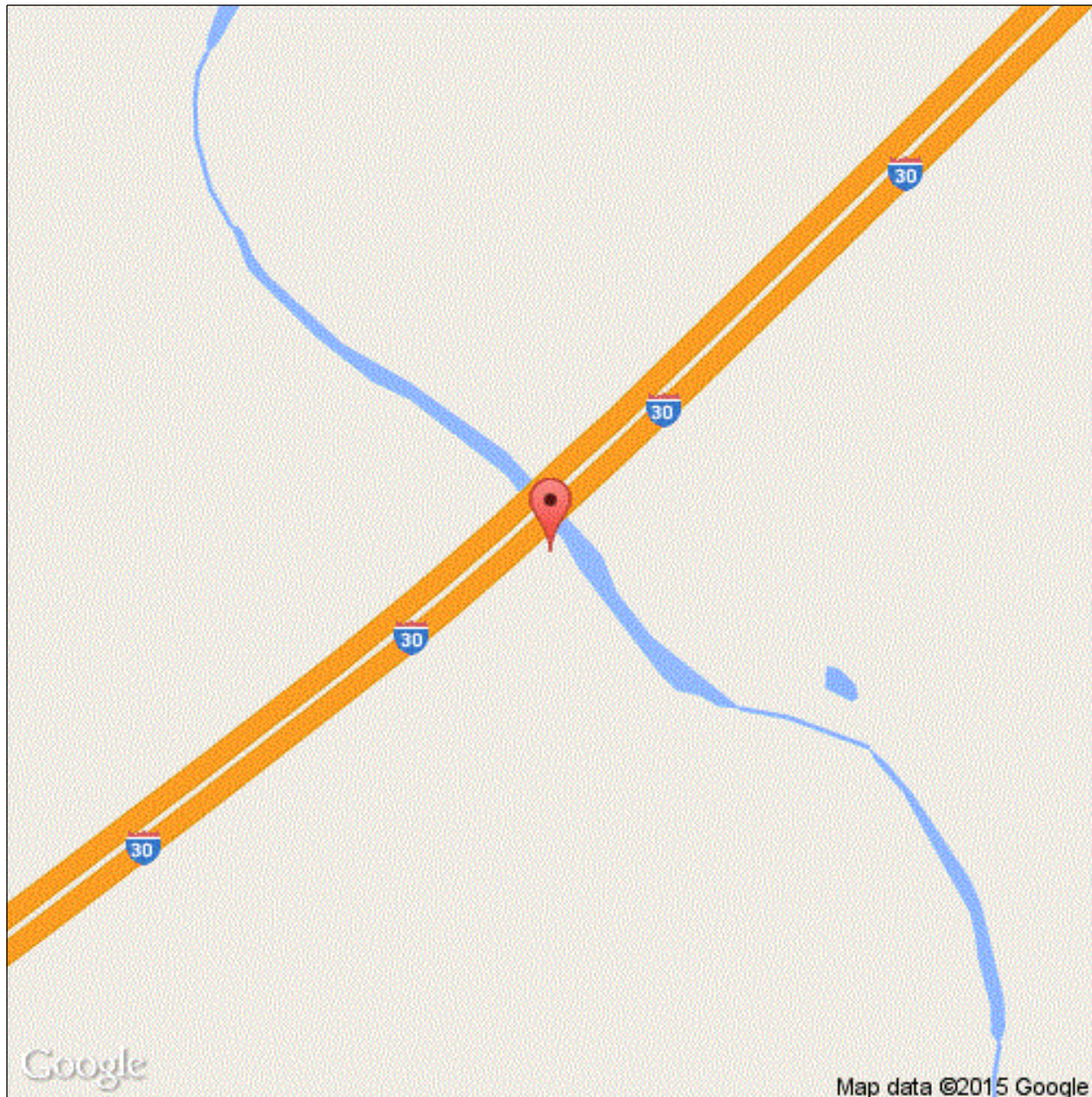
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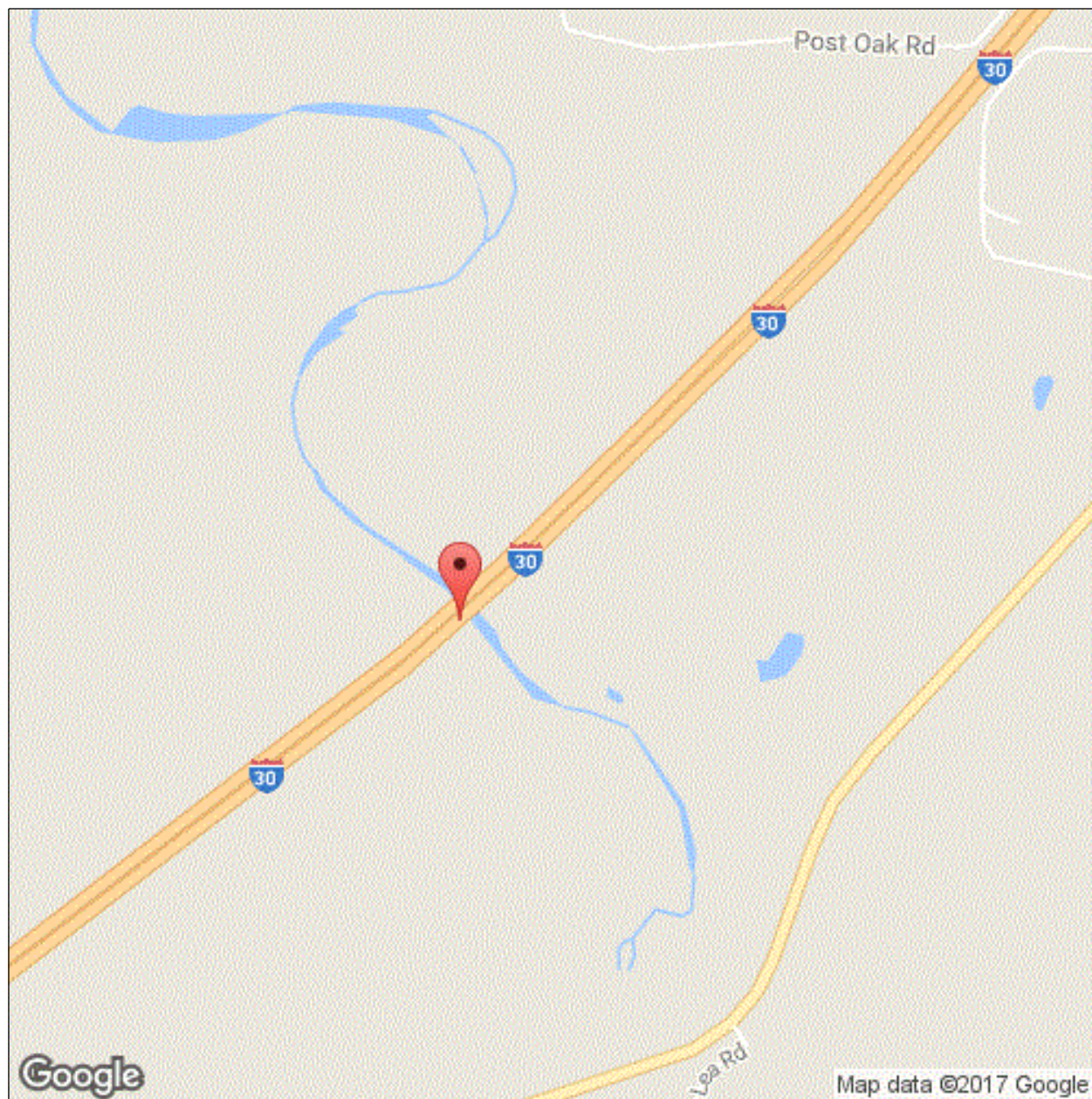
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Executive Summary

Concrete deck, steel superstructure, concrete substructure. Deck has sealable cracks, loose joint armor that pops as it comes under load. Rail has been repaired and the slope erosion is not as deep as it was in previous inspections. Erosion priority D as of 8-18-2015

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Bridge Inspection Report

National Bridge Inventory

| IDENTIFICATION | | INSPECTIONS | |
|--|--|---|-----------------------|
| (1) STATE CODE | 056 - Arkansas | (90) INSPECTION DATE | 08/28/2017 |
| (8) STRUCTURE NUMBER | B3853 | (91) DESIGNATED INSPECTION FREQUENCY | 24 |
| (5) INV. ROUTE (ON/UNDER) | 1 1 1 30 2 | (92) CRITICAL FEATURE INSPECTION | (93) CFI DATE |
| (2) HIGHWAY AGENCY | 07 (3) COUNTY CODE 019 | A. FRACTURE CRITICAL DETAIL | N |
| (4) PLACE CODE | 00000 | B. UNDERWATER INSPECTION | N |
| (6) FEATURES INTERSECTED | BAYOU DE ROCHE | C. OTHER SPECIAL | N |
| (7) FACILITY CARRIED | Clark I-30 EBS-14 | | |
| (9) LOCATION | 3 MI EAST OF SH 7 | | |
| (11) MILEPOINT 80.580 | (12) BASE HIGHWAY NETWORK 0 | | |
| (13A) LRS INVENTORY ROUTE | 0000000000 (13B) SUBROUTE NUMBER 00 | | |
| (16) LATITUDE 34.21329 | (17) LONGITUDE -93.03110 | | |
| (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 6 |
| B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder | | (61) CHANNEL & CHANNEL PROTECTION | 7 (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 1 | | |
| (108B) DECK MEMBRANE 0 | (108C) DECK PROTECTION 0 | | |
| AGE OF SERVICE | | LOAD RATING AND POSTING | |
| (27) YEAR BUILT 1966 | (106) YEAR RECONSTRUCTED 1978 | (31) DESIGN LOAD | 5 |
| (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 29000 | (19) BYPASS DETOUR LENGTH 6 | (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.) 70 | (49) STRUCTURE LENGTH (ft.) 212 | (67) STRUCTURAL EVALUATION | 6 |
| (50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0.7 | RIGHT 0.7 | (68) DECK GEOMETRY | 6 |
| (51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) | 38.4 | (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL | N |
| (52) DECK WIDTH, OUT-TO-OUT (ft.) | 42.2 | (71) WATERWAY ADEQUACY | 8 |
| (32) APPROACH ROADWAY WIDTH (ft.) | 40.0 | (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.) | 40.0 | 36B) TRANSITIONS: | 1 |
| (53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) | 99.99 | 36C) APPROACH GUARDRAIL: | 1 |
| (54) VERTICAL UNDER CLEARANCE (ft.) | N 0 | 36D) APPROACH GUARDRAIL ENDS: | 1 |
| (55) LATERAL UNDER CLEARANCE RIGHT (ft.) | N 99.9 | (113) SCOUR CRITICAL BRIDGES | 8 |
| (56) MIN LATERAL UNDER CLEARANCE (ft.) | 0 | SUFFICIENCY RATING | 85.0 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 | 01 |
| (95) ROADWAY IMPROVEMENT COST (\$) | 0 | (100) STRAHNET HIGHWAY DESIGNATION | 1 |
| (96) TOTAL PROJECT COST | 0 | (101) PARALLEL STRUCTURE DESIGNATION | R |
| (97) YEAR OF IMPROVEMENT COST ESTIMATE | | (102) DIRECTION OF TRAFFIC | 1 |
| (114) FUTURE ADT 14480 | (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 | 0 |
| | | (111) PIER OR ABUTMENT PROTECTION | 5 |
| | | (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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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. | 8162 | sq. ft. | 6112 | 1435 | 615 | 0 |
| Some sealable cracks. Several of the cracks are wide enough to fall into the state 3 category. | | | | | | | |
| 1130 - Cracking (RC and Other) | | 1230 | | | 615 | 615 | |
| 1190 - Abrasion/Wear (PSC/RC) | | 820 | | | 820 | | |
| 107 - Steel Open Girder/Beam | 1- Ben. | 1484 | ft. | 949 | 535 | 0 | 0 |
| 1000 - Corrosion | | 40 | | | 40 | | |
| 1900 - Distortion | | 495 | | | 495 | | |
| 515 - Steel Protective Coating | | 11634 | sq. ft. | 0 | 11634 | | |
| 205 - Reinforced Concrete Column | 1- Ben. | 4 | each | 0 | 4 | 0 | 0 |
| 1190 - Abrasion/Wear (PSC/RC) | | 4 | | | 4 | | |
| 215 - Reinforced Concrete Abutment | 1- Ben. | 84 | ft. | 54 | 0 | 30 | 0 |
| 1080 - Delamination/Spall/Patched Area | | 30 | | | | 30 | |
| 234 - Reinforced Concrete Pier Cap | 1- Ben. | 84 | ft. | 84 | | | |
| 303 - Assembly Joint with Seal | 1- Ben. | 154 | ft. | 0 | 154 | 0 | 0 |
| 2310 - Leakage | | 154 | | | 154 | | |
| 304 - Open Expansion Joint | 1- Ben. | 84 | ft. | 0 | 84 | 0 | 0 |
| 7000 - Damage | | 84 | | | 84 | | |
| 311 - Movable Bearing | 1- Ben. | 21 | each | 0 | 21 | 0 | 0 |
| 1000 - Corrosion | | 21 | | | 21 | | |
| 313 - Fixed Bearing | 1- Ben. | 21 | each | 0 | 21 | 0 | 0 |
| 1000 - Corrosion | | 21 | | | 21 | | |
| 321 - Reinforced Concrete Approach Slab | 1- Ben. | 2888 | sq. ft. | 2600 | 144 | 144 | 0 |
| Cracks and spalls minor settlement. | | | | | | | |
| 1130 - Cracking (RC and Other) | | 288 | | | 144 | 144 | |
| 330 - Metal Bridge Railing | 1- Ben. | 424 | ft. | 424 | | | |
| 331 - Reinforced Concrete Bridge Railing | 1- Ben. | 424 | ft. | 414 | 10 | 0 | 0 |
| 1080 - Delamination/Spall/Patched Area | | 10 | | | 10 | | |

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Bridge Inspection Report

Pictures

PHOTO 2

Description

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Bridge Inspection Report

Sketches

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 7/11/2011 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Slope, left side abutment 2.

Slope erosion, with a washout extending toward the base of the abutment under G1.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description B3853 slope erosion abutment 2

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 7/11/2011 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Deck

Sealable cracks

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 7/11/2011 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Diaphragm, span 1 @ G4

3 missing bolts.

Diaphragm 3, span 1 between G4 & G5, 2 bolts missing and the 3rd one nut is missing or bolt has sheared off.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Maintenance Needs

Date Reported: 08/28/2017

Priority: C - Important

Work Code:

Deficiency Description:

Span 2, all the girders are distorted, it appears that the deck has shifted Lt. and all the top flanges have moved with the deck and distorted the girders. Girders look to have shifted @ the top approx. 1 1/2" - 2".

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Span 2, @ bent 2 back, girders 1, 2, 3, 4, 5, & 6 the girders are twisted, the deck appears to have shifted Lt.

Stage: Open



PHOTO 2 Description Span 2 looking back @ girder 6 it appears that the deck has shifted to the Lt. All the girders are twisted.

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Maintenance Needs

Date Reported: 08/28/2017

Priority: C - Important

Work Code:

Deficiency Description:

Spans 1 & 3 Rt. have some vegetation that has grown up beside the bridge that is limiting the movement of the Bridge Inspection unit.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Spans 3 has vegetation growing out beside the Rt. Side of the bridge that restricts movement of our snoopers. This is typical of both spans 1 & 3.