

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:

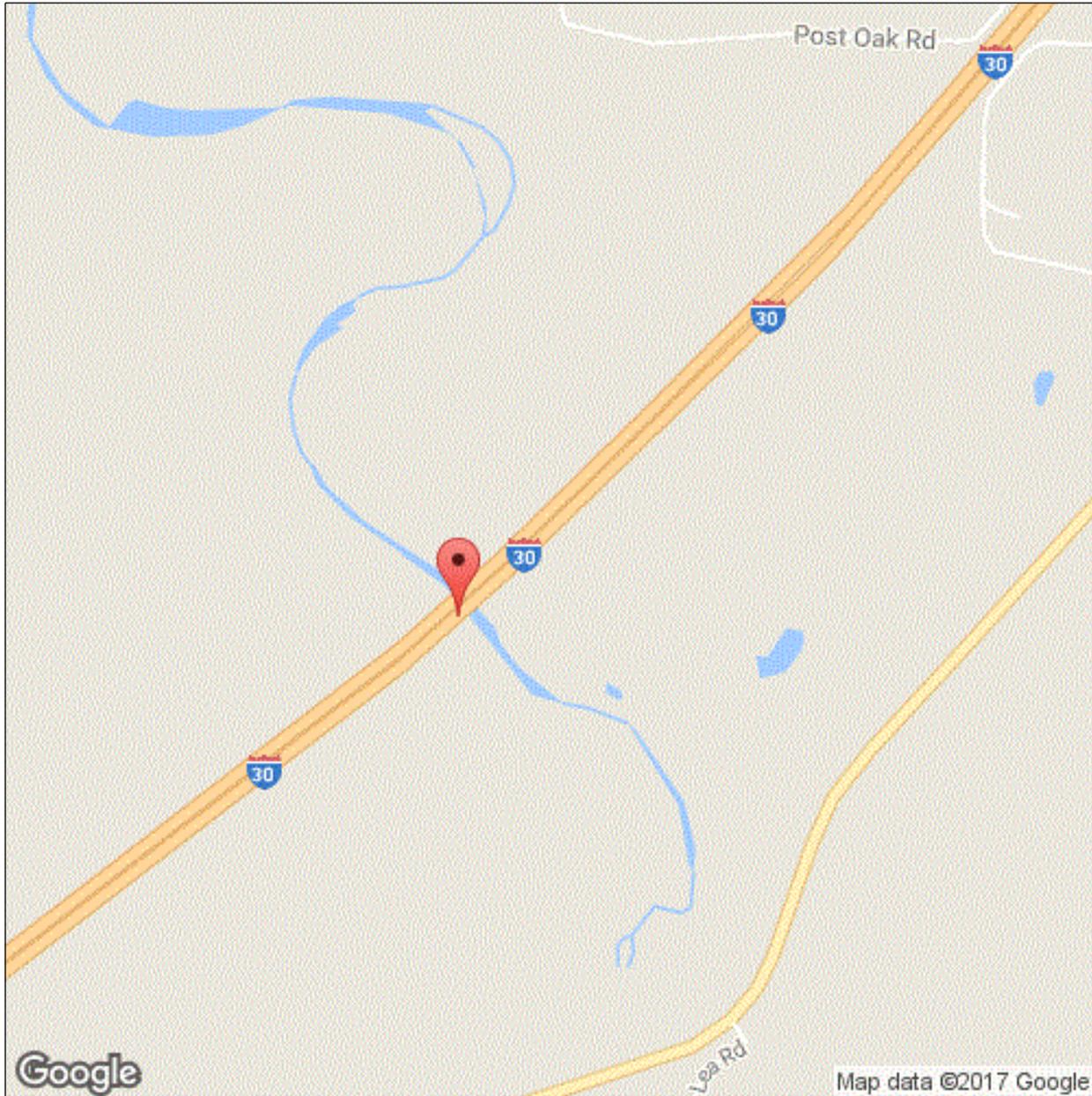
Structure Number: B3853

Inspection Date:

Facility Carried: Clark I-30 EBS-14

Bridge Inspection Report

Location Map



Latitude: 34.21329

Longitude: -93.03110

Inspector:

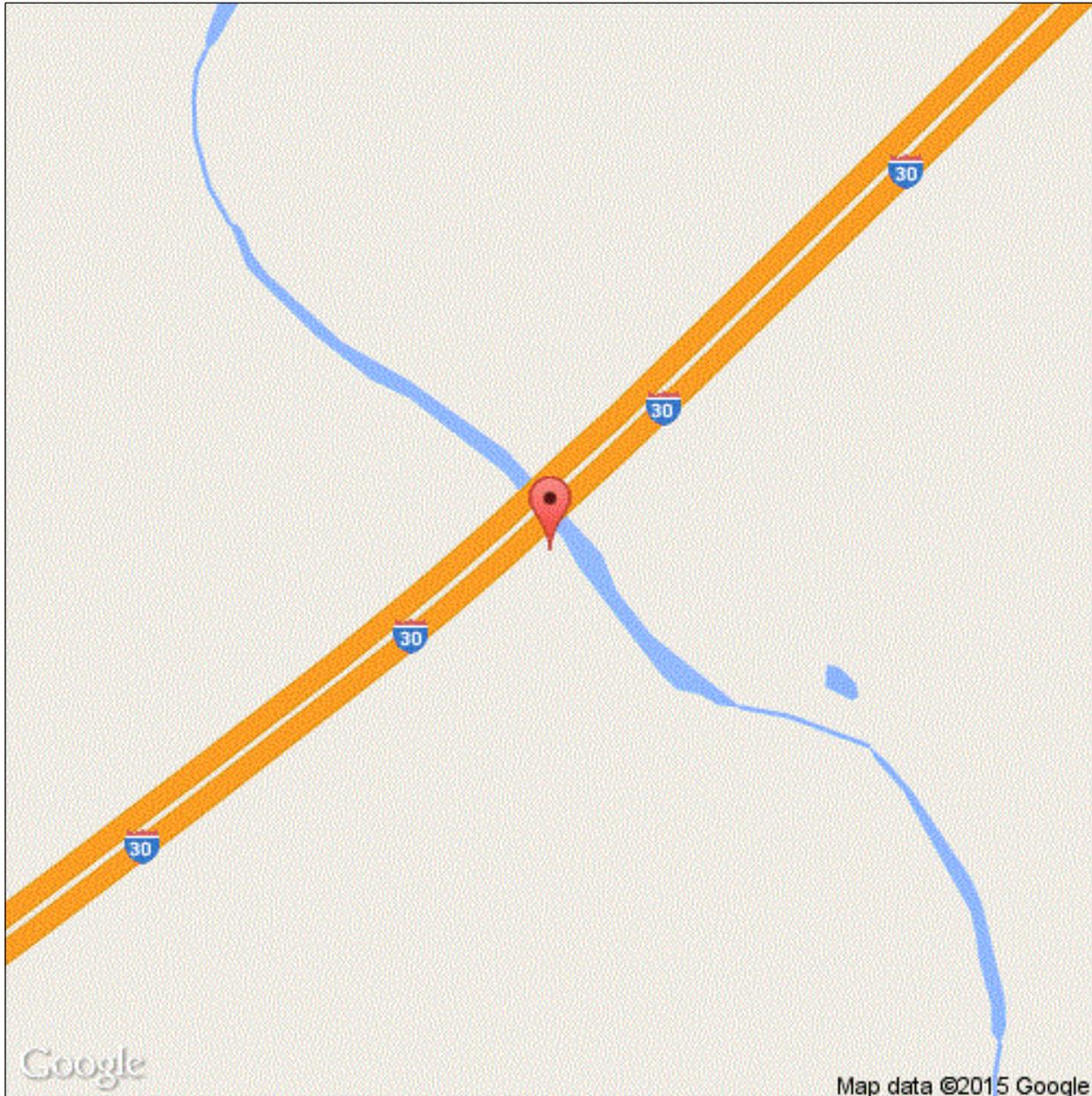
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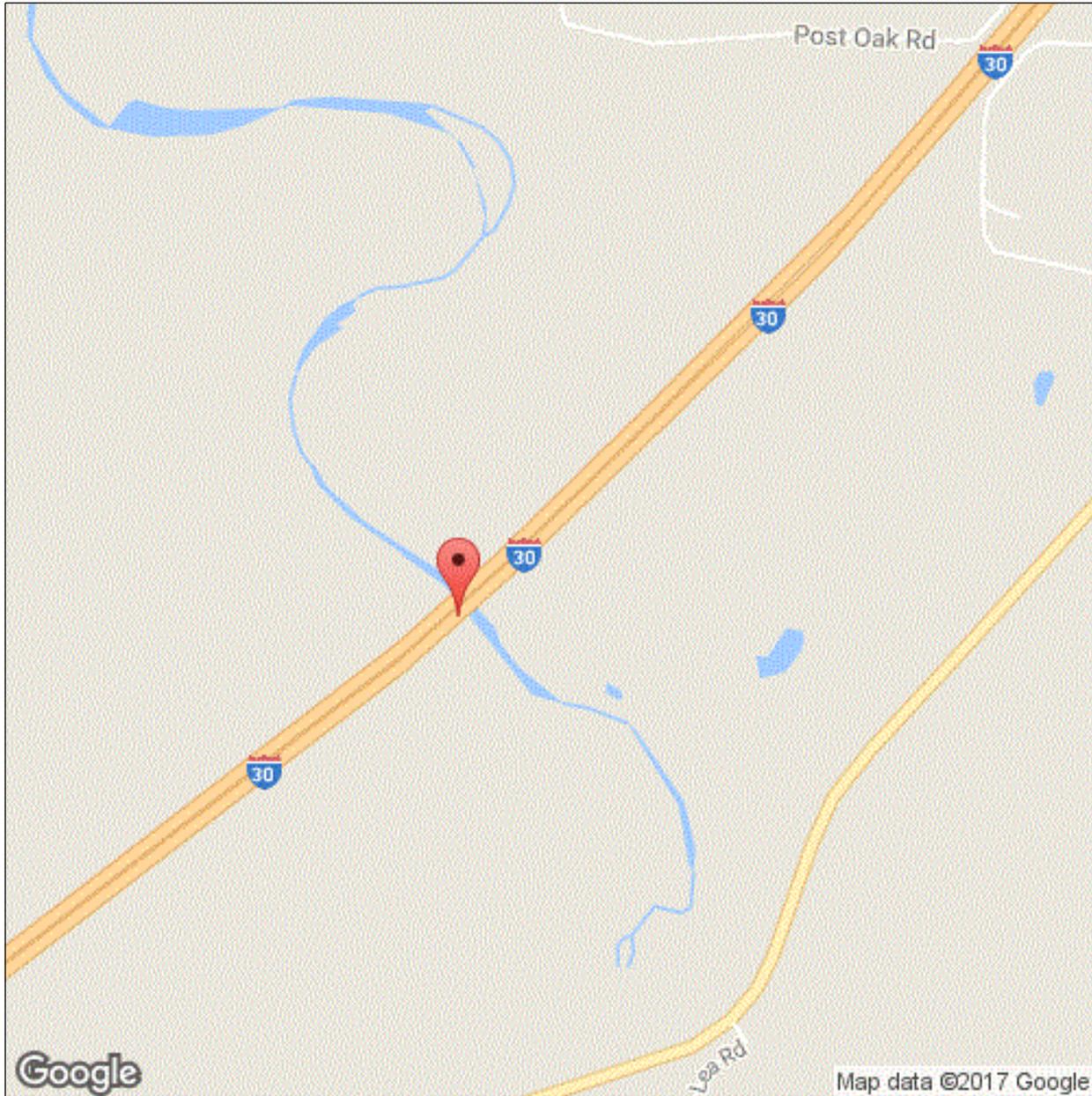
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Executive Summary

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	
(1) STATE CODE	056 - Arkansas
(8) STRUCTURE NUMBER	B3853
(5) INV. ROUTE (ON/UNDER)	1 1 1 30 2
(2) HIGHWAY AGENCY	07 (3) COUNTY CODE 019
(4) PLACE CODE	00000
(6) FEATURES INTERSECTED	BAYOU DE ROCHE
(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	
(43) STRUCTURE TYPE, MAIN	
A) KIND OF MATERIAL/DESIGN:	3 - Steel
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder
(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	
(27) YEAR BUILT	1966 (106) YEAR RECONSTRUCTED 1978
(42) TYPE OF SERVICE	ON 1 UNDER 5
(28) LANES	ON 02 UNDER 00
(29) AVERAGE DAILY TRAFFIC	29000 (19) BYPASS DETOUR LENGTH 6
(30) YEAR OF AVERAGE DAILY TRAFFIC	2013
(109) AVERAGE DAILY TRUCK TRAFFIC	1

GEOMETRIC DATA	
(48) LENGTH OF MAX SPAN (ft.)	70 (49) STRUCTURE LENGTH (ft.) 212
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0.7 RIGHT 0.7
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	38.4
(52) DECK WIDTH, OUT-TO-OUT (ft.)	42.2
(32) APPROACH ROADWAY WIDTH (ft.)	40.0
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.) 0
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.) 99.99
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	40.0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0

PROPOSED IMPROVEMENTS	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0
(94) BRIDGE IMPROVEMENT COST (\$)	0
(95) ROADWAY IMPROVEMENT COST (\$)	0
(96) TOTAL PROJECT COST	0
(97) YEAR OF IMPROVEMENT COST ESTIMATE	
(114) FUTURE ADT	14480 (115) YEAR OF FUTURE ADT 2028

INSPECTIONS	
(90) INSPECTION DATE	08/28/2017
(91) DESIGNATED INSPECTION FREQUENCY	24
(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
A. FRACTURE CRITICAL DETAIL	N
B. UNDERWATER INSPECTION	N
C. OTHER SPECIAL	N

CONDITION	
(58) DECK	6
(59) SUPERSTRUCTURE	6 (60) SUBSTRUCTURE 6
(61) CHANNEL & CHANNEL PROTECTION	7 (62) CULVERT N

LOAD RATING AND POSTING	
(31) DESIGN LOAD	5
(63) METHOD USED TO DETERMINE OPERATING RATING	1
(64) OPERATING RATING	60.0
(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(66) INVENTORY RATING	36.0
(70) BRIDGE POSTING	5
(41) STRUCTURE OPEN/POSTED/CLOSED	A

APPRAISAL	
(67) STRUCTURAL EVALUATION	6
(68) DECK GEOMETRY	6
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(71) WATERWAY ADEQUACY	8
(72) APPROACH ROADWAY ALIGNMENT	8
(36) TRAFFIC SAFETY FEATURE	
36A) BRIDGE RAILINGS:	0
36B) TRANSITIONS:	1
36C) APPROACH GUARDRAIL:	1
36D) APPROACH GUARDRAIL ENDS:	1
(113) SCOUR CRITICAL BRIDGES	8
SUFFICIENCY RATING	85.0 STATUS 0

CLASSIFICATION	
(112) NBIS BRIDGE LENGTH	Y
(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	01
(100) STRAHNET HIGHWAY DESIGNATION	1
(101) PARALLEL STRUCTURE DESIGNATION	R
(102) DIRECTION OF TRAFFIC	1
(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

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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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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.