

Bridge Inspection Report

A3094
I-30 EB Log 114.38
over
SALINE RIVER



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

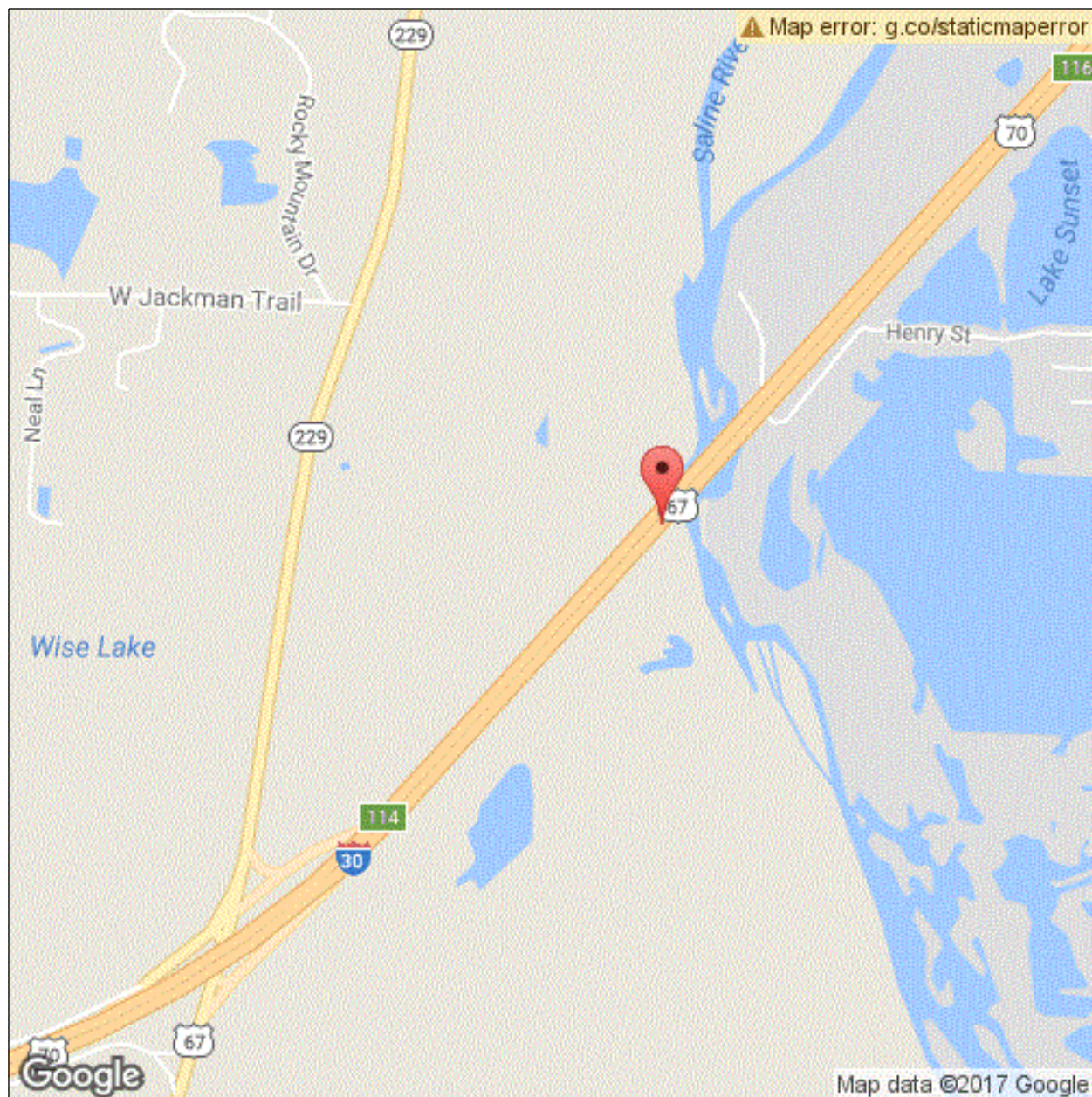
Structure Number: A3094

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Facility Carried: I-30 EB Log 114.38

Bridge Inspection Report

Location Map



Latitude: 34.55206

Longitude: -92.62226

Inspector:

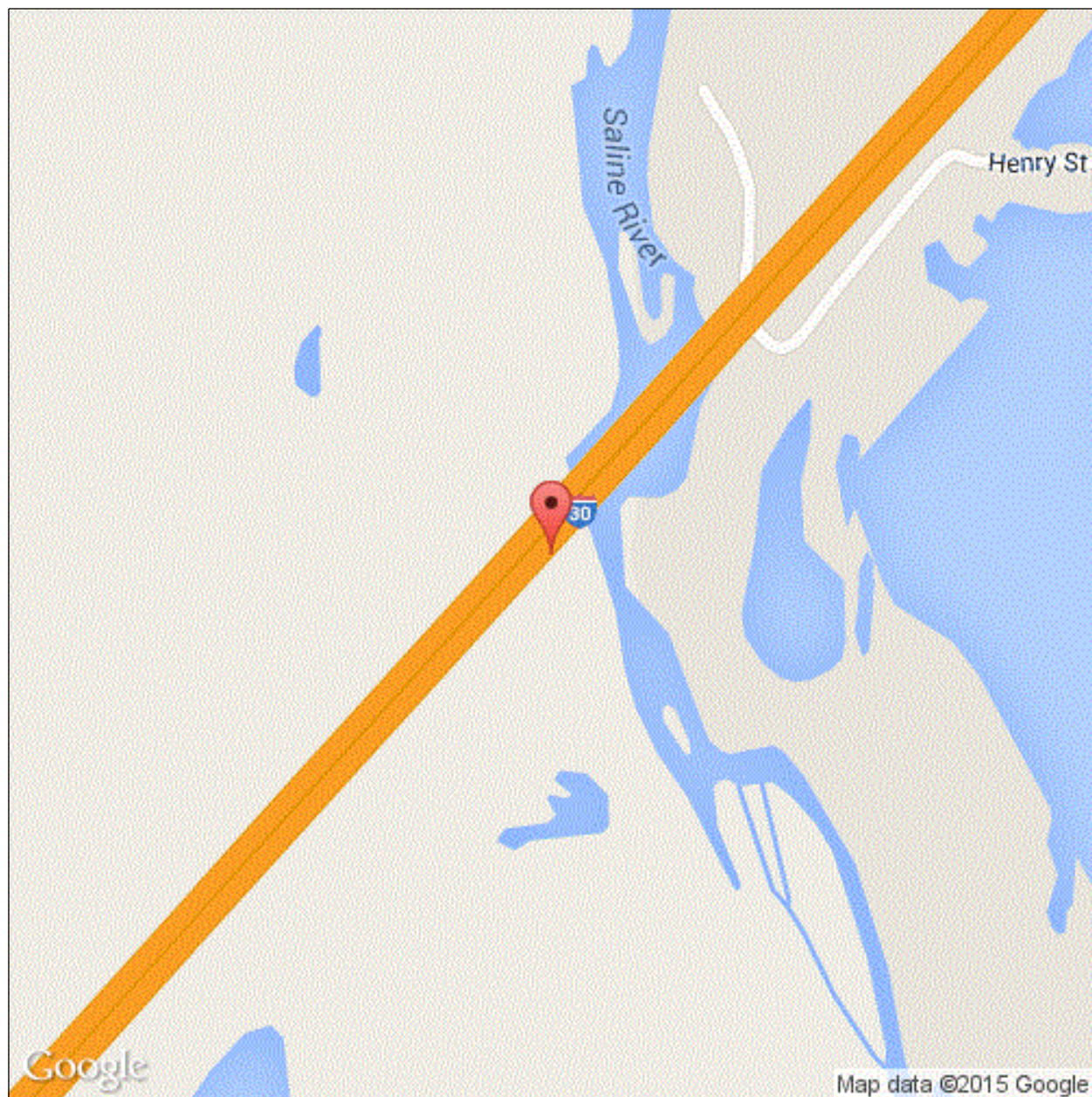
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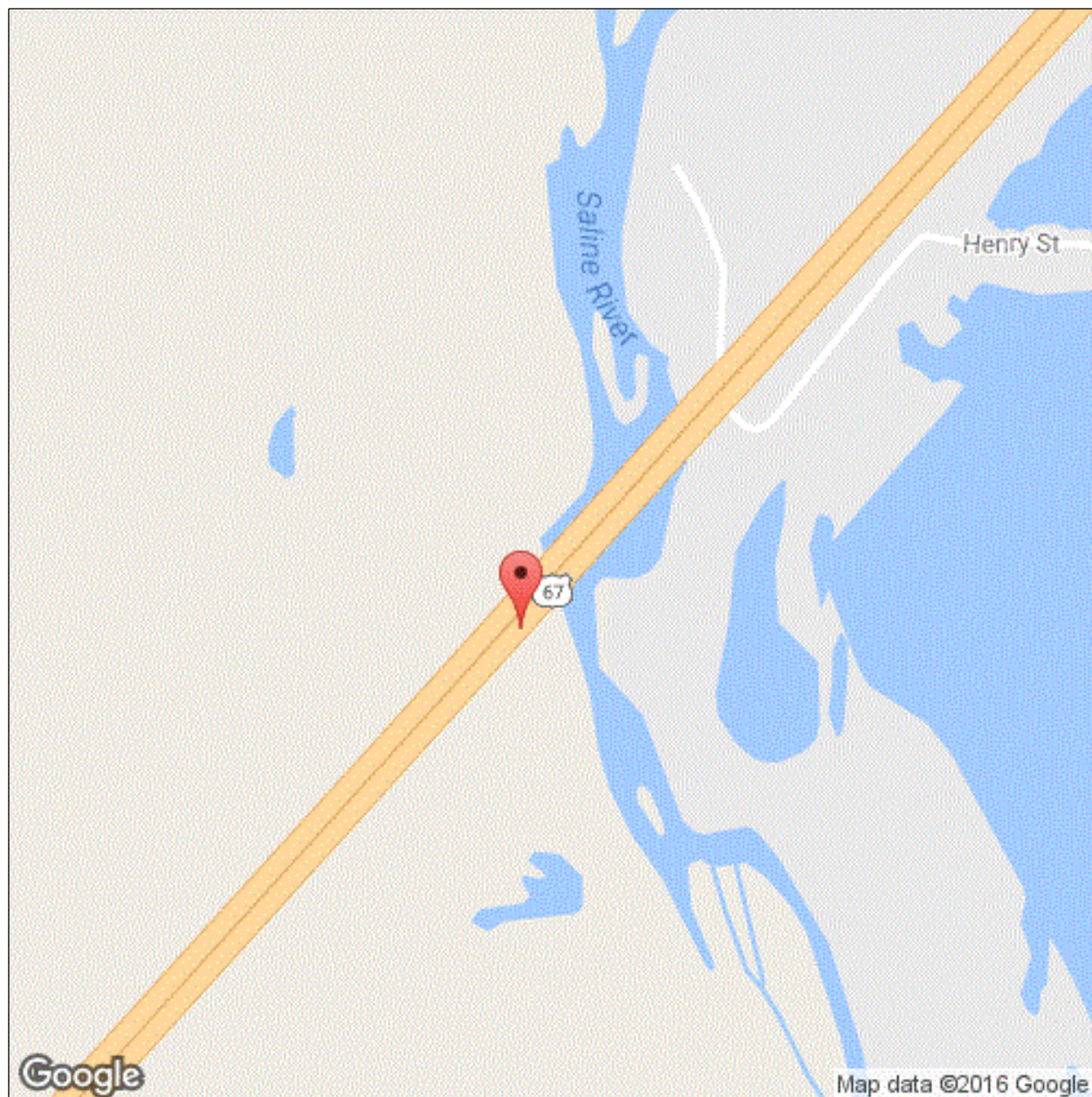
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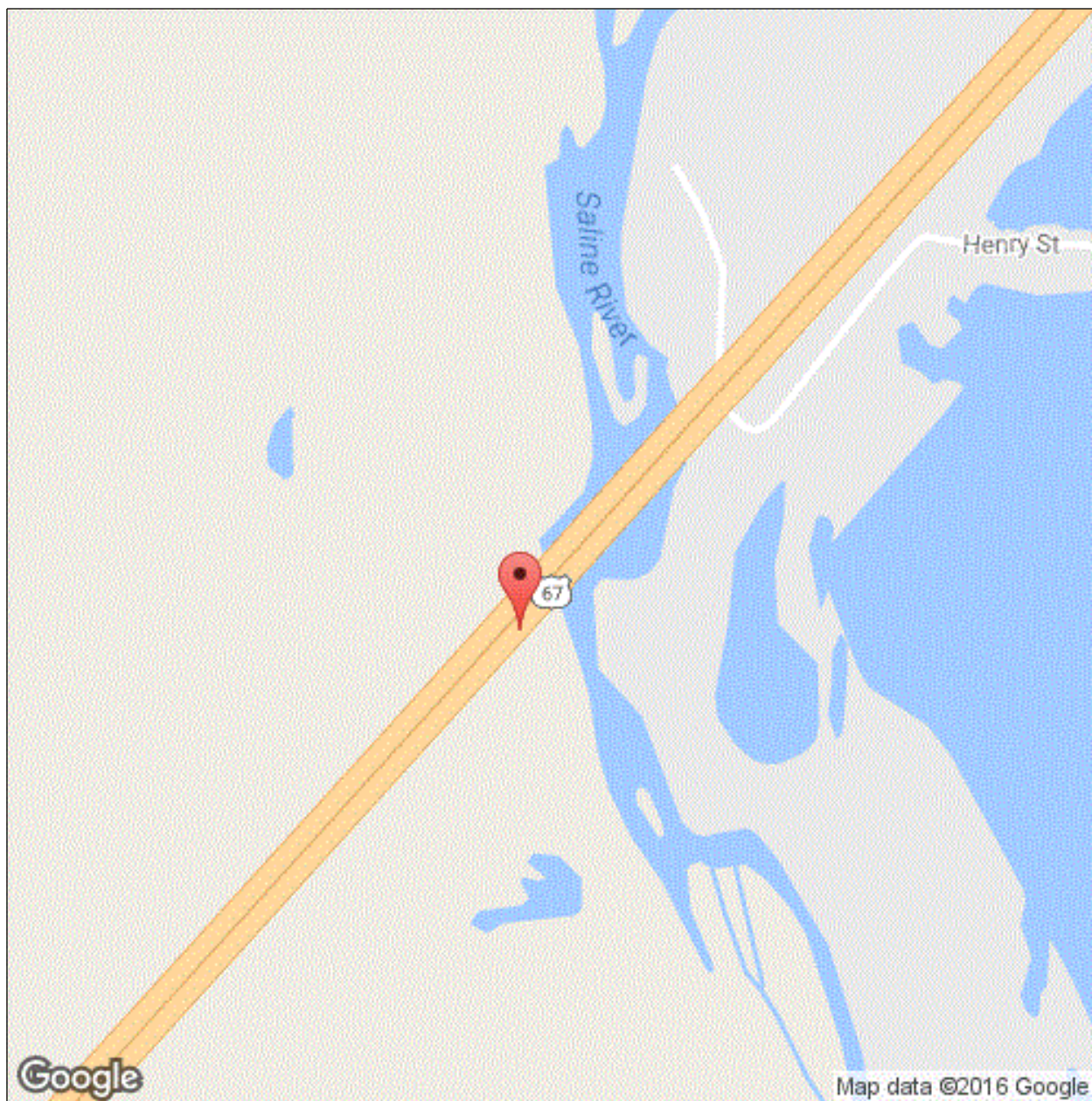
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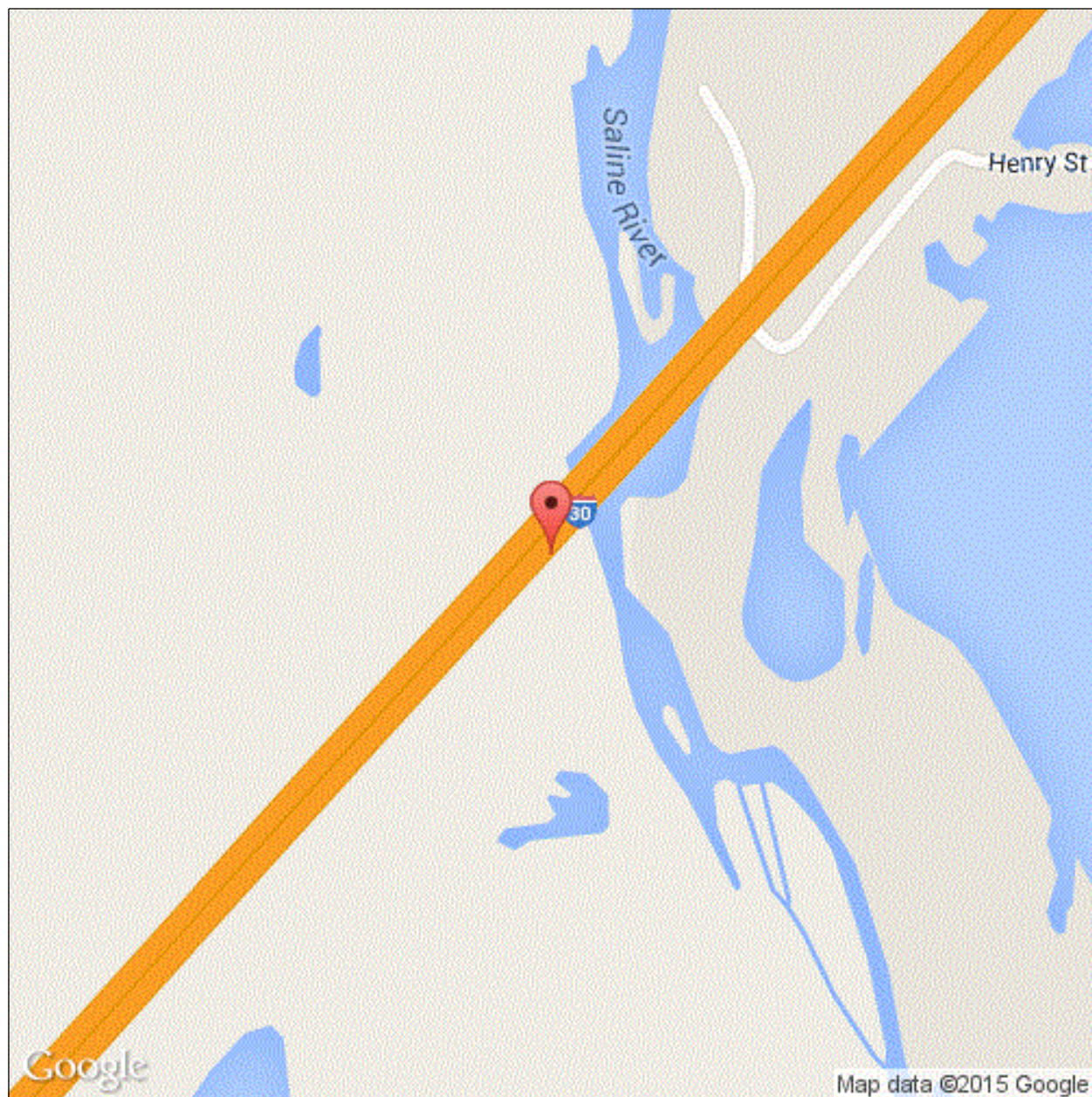
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Executive Summary

job 60247 dwg 24689.

08/01/2017 Special inspection only on spans 2 & 13 girder 7 under dia. 2

Logged Eastbound.

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	08/06/2018
(8) STRUCTURE NUMBER	A3094	(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	06 (3) COUNTY CODE 125	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	SALINE RIVER	C. OTHER SPECIAL	Y 24 08/01/2017
(7) FACILITY CARRIED	I-30 EB Log 114.38		
(9) LOCATION	2.6 MI SW SH 5 AT BENTON		
(11) MILEPOINT 114.380	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000030220 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.55206	(17) LONGITUDE -92.62226		
(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	4 (60) SUBSTRUCTURE 5
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: 3 - Steel			
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder			
(45) NUMBER OF SPANS IN MAIN 9	(46) NUMBER OF APPROACH 5		
(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 1958	(106) YEAR RECONSTRUCTED 1981	(31) DESIGN LOAD	6
(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 65000	(19) BYPASS DETOUR LENGTH 1	(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 30		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 91	(49) STRUCTURE LENGTH (ft.) 1063	(67) STRUCTURAL EVALUATION	4
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	7
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 40.0		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	9
(52) DECK WIDTH, OUT-TO-OUT (ft.) 43		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 40.0		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 45	(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.) 41.0		36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.) H 16.75		36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) H 19.7		(113) SCOUR CRITICAL BRIDGES	8
(56) MIN LATERAL UNDER CLEARANCE (ft.) 16.0		SUFFICIENCY RATING	62.1 STATUS 1
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 37000	(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
		(22) OWNER	01
		(37) HISTORICAL	5
		NAVIGATION DATA	
		(38) NAVIGATION CONTROL	0
		(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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Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	45580	sq. ft.	42781	2126	673	0
	unsealed transverse & longitudinal cracks. largest .050. Span 5 at bent 6 spall						
1080 - Delamination/Spall/Patched Area		1		0	0	1	0
1130 - Cracking (RC and Other)		2798		0	2126	672	0
107 - Steel Open Girder/Beam	1- Ben.	7420	ft.	7232	128	60	0
	Beam ends at all bent have active corrosion due to leaking joint seals. Span 13 beam 7 diaphragm 2 has a 6 inch crack in the web. See photo. Missing and loose diaphragm bolts in; span 4 beam 3 diaphragm 2 Span 5 beam 3 diaphragm 2 & beam 5 diaphragm 3&4 Span 6 beam 3 diaphragm 4 Span 7 beam 3 diaphragm 3 & beam 5 diaphragm 2&4 Span 8 beam 3 diaphragm 5 Span 9 beam 3 diaphragm 2 & beam 5 diaphragm 3 Span 10 beam 5 diaphragm 2,3,&4 Span 11 beam 3 diaphragm 1,2,3,&4 & beam 4 diaphragm 2 Span 12 beam 4 diaphragm 4 & beam 5 diaphragm 2&5 & beam 6 diaphragm 5						
1000 - Corrosion		161		0	128	33	0
1010 - Cracking		1		0	0	1	0
1020 - Connection		26		0	0	26	0
515 - Steel Protective Coating		64999	sq. ft.	39525	13175	11175	1124
205 - Reinforced Concrete Column	1- Ben.	40	each	24	14	2	0
	Bent 4 column 2 has spall. Bent 5 columns 1&2 has abrasion. Bent 6 column 2 has exposed rebar, columns 1,3,&4 have abrasion. Bent 7 column 2 has exposed rebar. Bent 9 column 2 has exposed rebar. Bent 11 column 1 has spall, column 2 has exposed rebar. Bent 12 column 3 has exposed rebar. Bent 13 columns 2&3 has spalls.						
1080 - Delamination/Spall/Patched Area		4		0	3	1	0
1090 - Exposed Rebar		4		0	4	0	0
1190 - Abrasion/Wear (PSC/RC)		8		0	7	1	0
210 - Reinforced Concrete Pier Wall	1- Ben.	460	ft.	341	118	1	0
	Bent 4 spall with exposed rebar. Bent 5 spall with exposed rebar and abrasion. Bent 7 abrasion. Bent 9 has exposed rebar. Bent 10"has exposed rebar. Bent 11 has exposed rebar. Bent 12 has exposed rebar.						

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Element Inspection

1090 - Exposed Rebar		20		0	20	0	0
1190 - Abrasion/Wear (PSC/RC)		99		0	98	1	0
215 - Reinforced Concrete Abutment	1- Ben.	138	ft.	138	0	0	0
225 - Steel Pile	1- Ben.	24	each	0	15	9	0
Bent 14 piles 4&5 above concrete encasement have holes in the flange. All have active corrosion below the cap.							
1000 - Corrosion		24		0	15	9	0
515 - Steel Protective Coating		1024	sq. ft.	0	0	512	512
234 - Reinforced Concrete Pier Cap	1- Ben.	790	ft.	778	12	0	0
bent 6, exposed rebar both sides, between column 1 and 2. bent 8 exposed rebar backside. crack with effl under beam 4. bent 9 exposed rebar ahead side between columns 3 and 4.							
1090 - Exposed Rebar		5		0	5	0	0
1120 - Efflorescence/Rust Staining		4		0	4	0	0
1130 - Cracking (RC and Other)		3		0	3	0	0
302 - Compression Joint Seal	1- Ben.	849	ft.	0	0	563	286
all joints leaking.							
2310 - Leakage		849		0	0	563	286
311 - Movable Bearing	1- Ben.	105	each	0	0	105	0
All bearings have active corrosion due to missing joint seals.							
313 - Fixed Bearing	1- Ben.	105	each	0	0	105	0
All bearings have active corrosion due to missing joint seals.							
321 - Reinforced Concrete Approach Slab	1- Ben.	1776	sq. ft.	578	1150	48	0
1130 - Cracking (RC and Other)		48		0	0	48	0
1190 - Abrasion/Wear (PSC/RC)		1150		0	1150	0	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	2120	ft.	2120	0	0	0

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Pictures

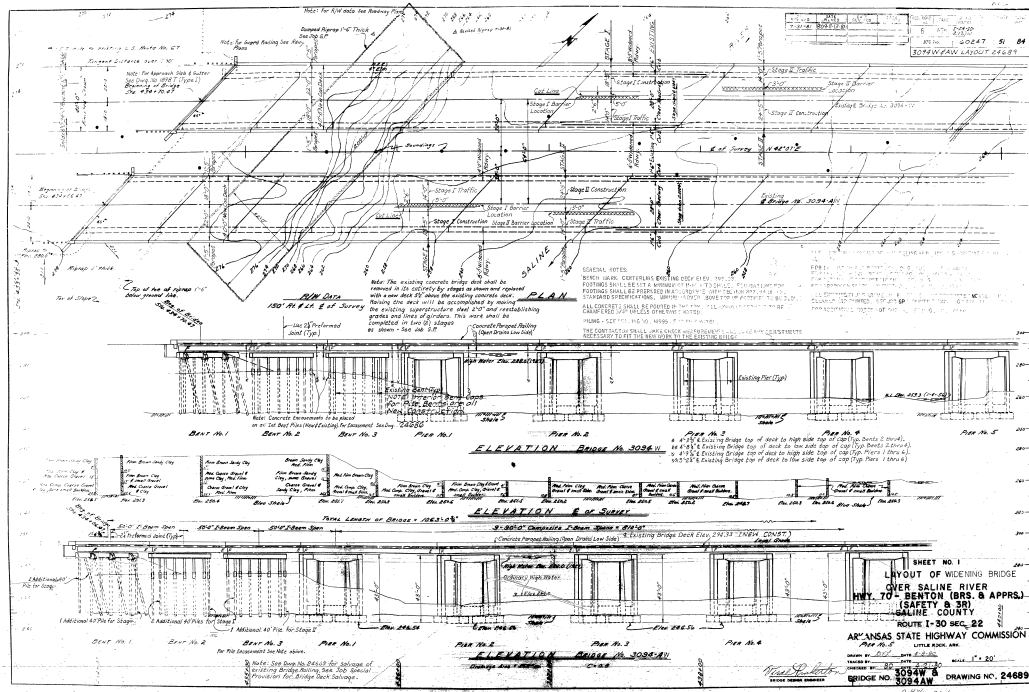


PHOTO 1

Description

PHOTO 1

Description

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Bridge Inspection Report

Pictures

PHOTO 2

Description

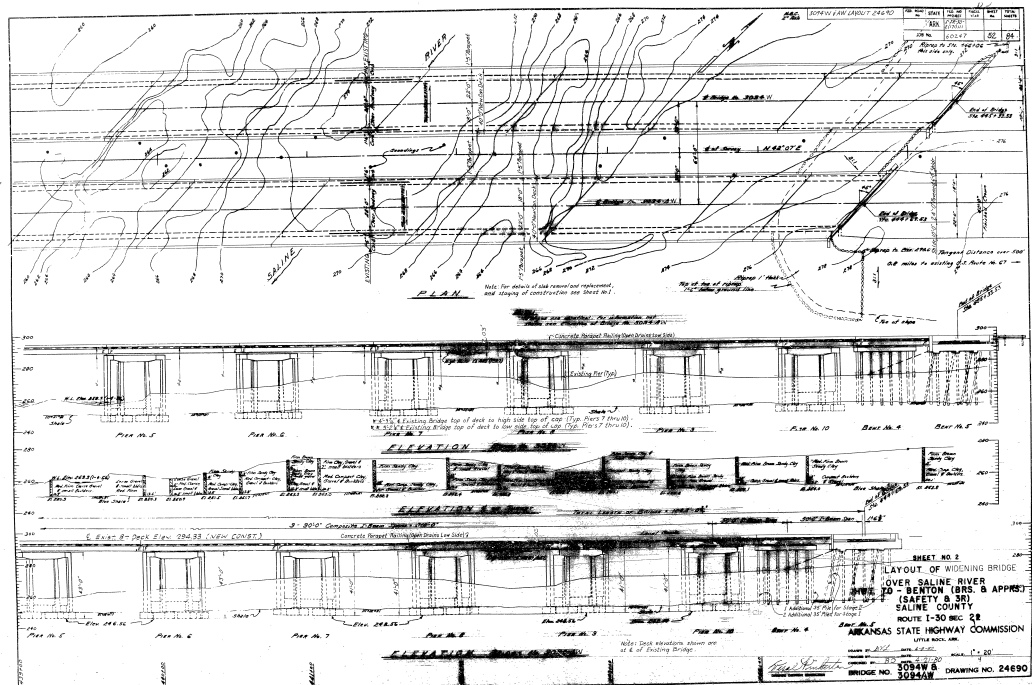


PHOTO 2

Description

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Bridge Inspection Report

Pictures

PHOTO 3

Description

PHOTO 4

Description

Inspector:

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Bridge Inspection Report

Pictures

PHOTO 5

Description

Inspector:

Inspection Date:

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Bridge Inspection Report

Sketches

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 8/8/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Bolts in the diaphragm connections are missing in spans 5 thru 12.
(42 bolts)

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor

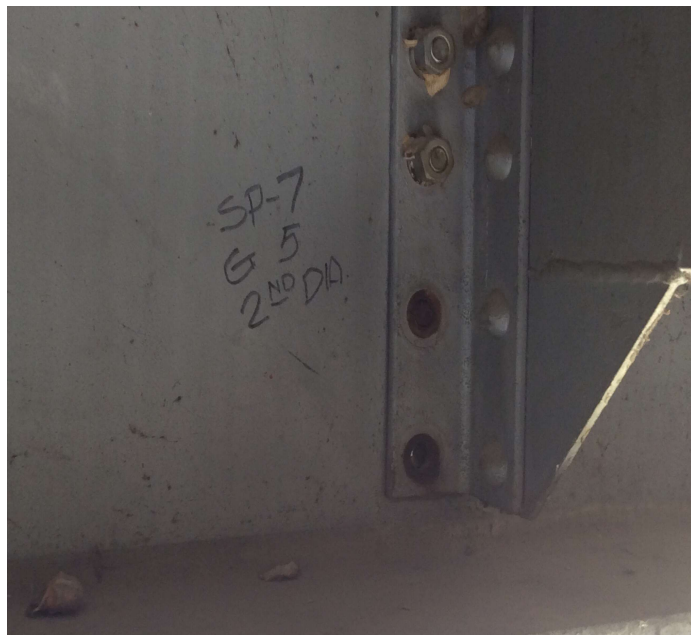


PHOTO 1 Description Span 7 beam 5 diaphragm 2 missing and broken bolt.

Stage: Monitor



PHOTO 2 Description Span 5 beam 5 diaphragm 3 has four missing bolts.

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 8/8/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

The deck has several transverse and longitudinal unsealed cracks

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

Structure Number: A3094

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Bridge Inspection Report

Maintenance Needs

Date Reported: 8/8/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Bent 4, piles 4 and 5 have holes rusted through the flanges at the bottom.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 09/01/2015

Priority: B - Pressing; 6 month completion goal

Work Code:

Deficiency Description:

Span 13 girder 7 at second diaphragm has a 3 inch crack on each side of diaphragm. (total 6 inches)

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned

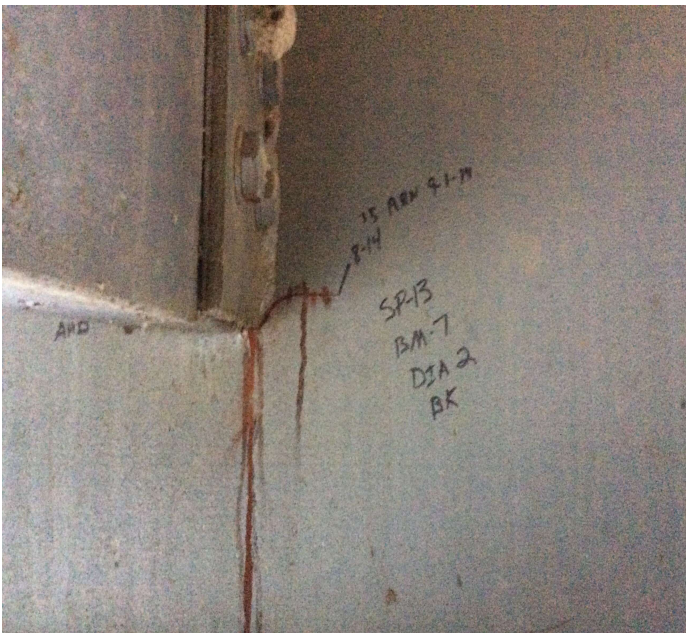


PHOTO 1 Description Span 13 beam 7 diaphragm 2 crack in the web.

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Maintenance Needs

Date Reported: 8/13/2014 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Bearing all bents have laminating rust between bearing and sole plates and masonry plates.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Bent 7 bearings have corrosion due to leaking joint seals. Common all bents.