

Bridge Inspection Report

03338

**State Highway 28
over
Brush Creek - Scott Co.**



Inspection Date:

Inspected By:

Inspection Type(s):

TABLE OF CONTENTS

	PAGE NUMBER
LOCATION MAP	3
NATIONAL BRIDGE INVENTORY	7
ELEMENTS	8
PICTURES	10
SKETCHES	11

Inspector:

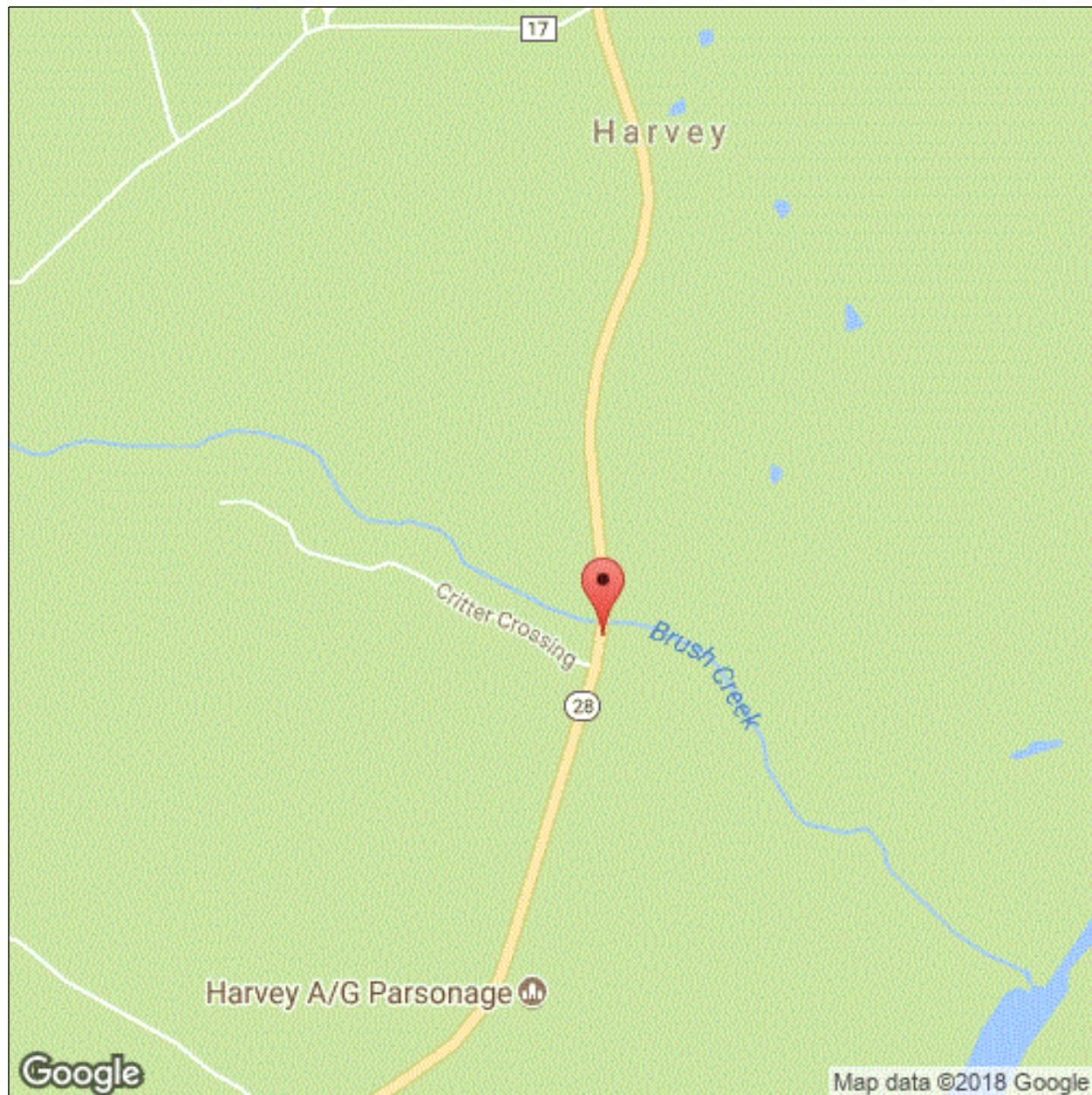
Structure Number: 03338

Inspection Date:

Facility Carried: State Highway 28

Bridge Inspection Report

Location Map



Latitude: 34.83779

Longitude: -93.78631

Inspector:

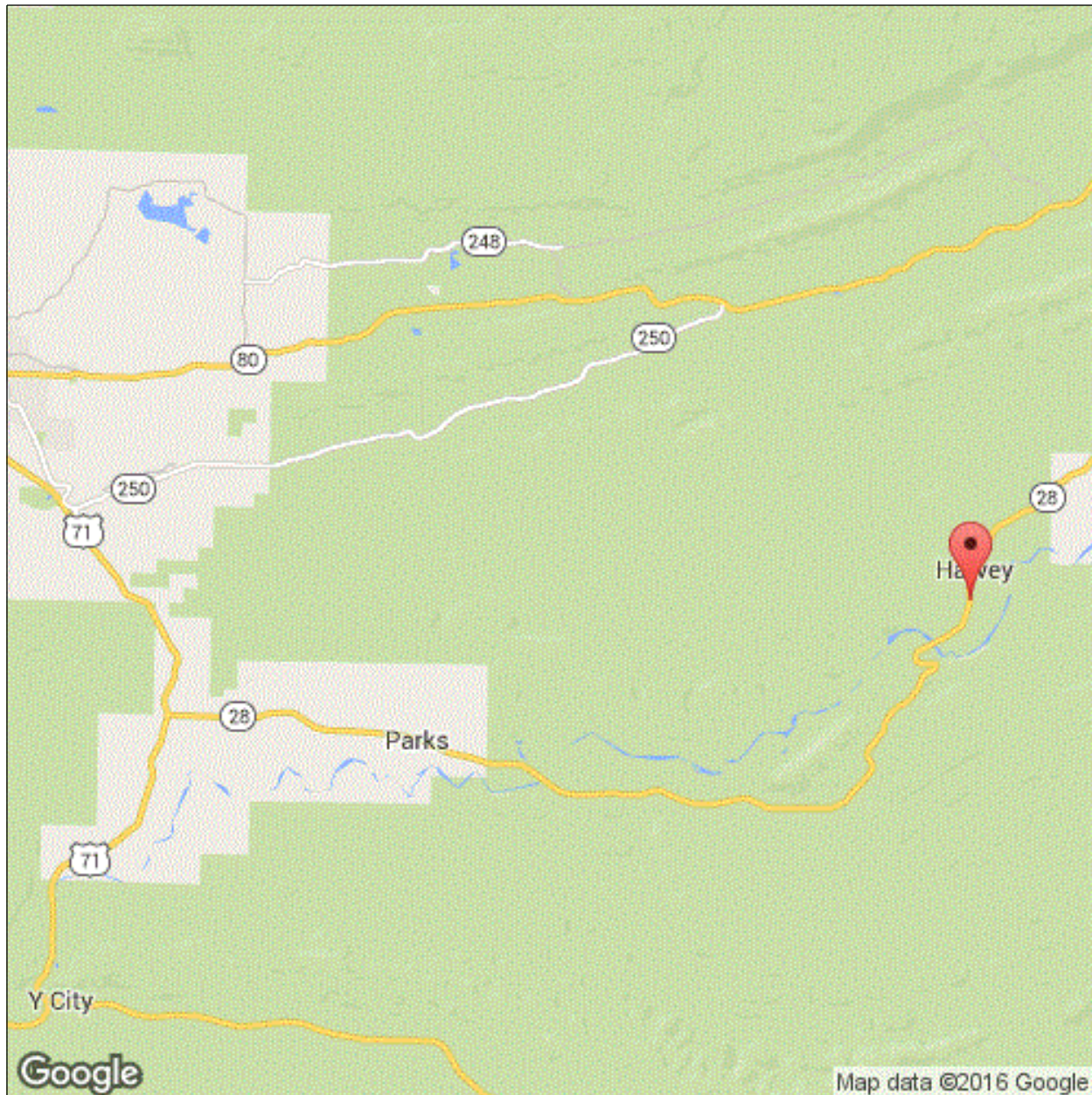
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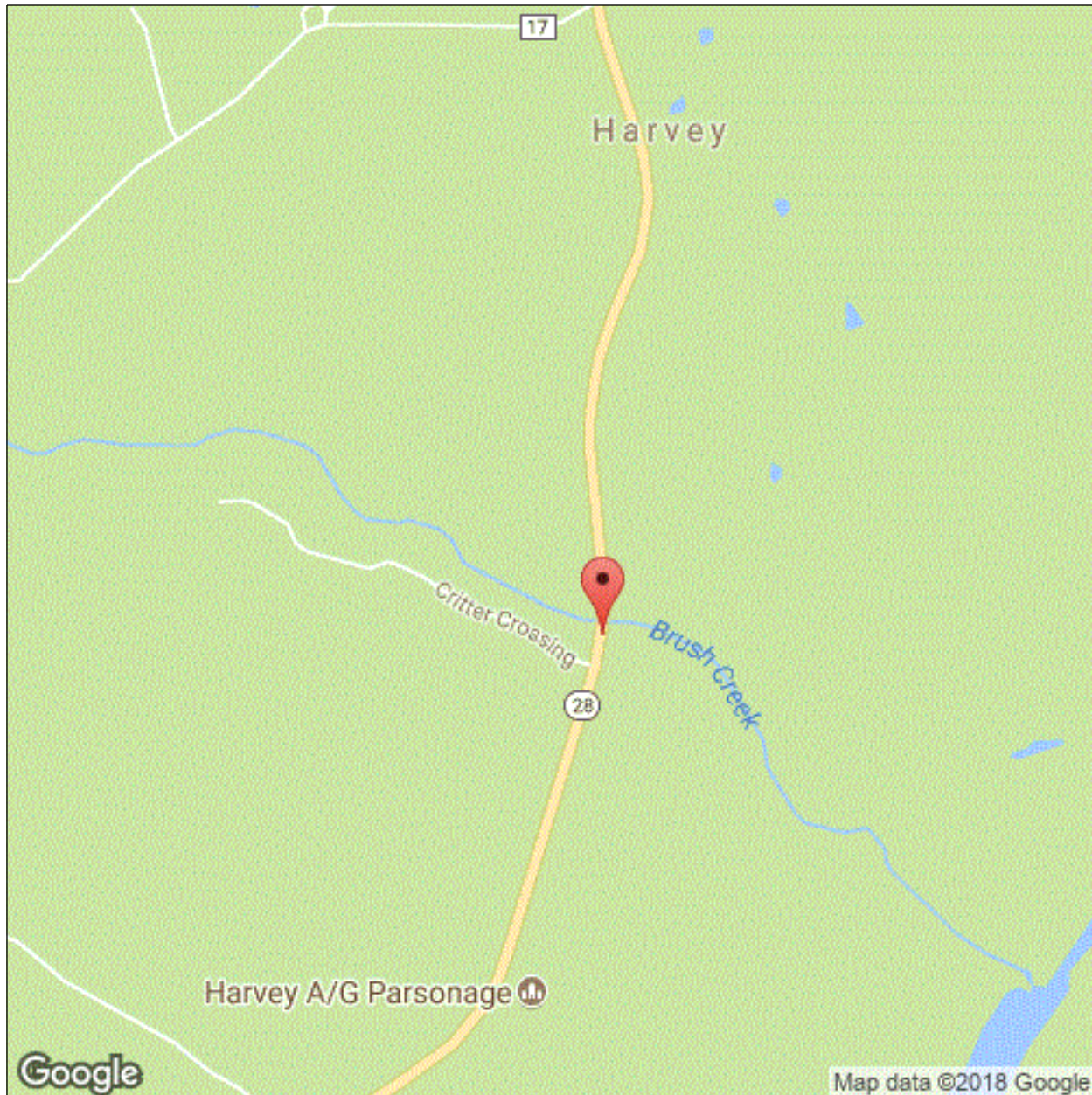
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Executive Summary

03/13/2018 - EJW & JPW - Routine Inspection conducted on this date.

02/18/2016 JPB-Routine and Underwater Type 2 Inspections conducted on this date.

Underwater Type 2 Inspection: Wading and probing during clear and low water conditions indicate that footings have cover with no apparent scour problems at this inspection.

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	03/13/2018
(8) STRUCTURE NUMBER	03338	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 28 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	04 (3) COUNTY CODE 127	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Brush Creek - Scott Co.	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	State Highway 28		
(9) LOCATION	0.75 M W OF HARVEY		
(11) MILEPOINT 17.686	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.83779	(17) LONGITUDE -93.78631		
(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: 1 - Concrete		(59) SUPERSTRUCTURE	6 (60) SUBSTRUCTURE 7
B) TYPE OF DESIGN/CONSTR: 01 - Slab		(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 6	(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 1961	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	2
(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	48.0
(29) AVERAGE DAILY TRAFFIC 280	(19) BYPASS DETOUR LENGTH 14	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	29.0
(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.) 28	(49) STRUCTURE LENGTH (ft.) 168	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 1 RIGHT 1		(68) DECK GEOMETRY	5
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	24.0	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	26.6	(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.)	24.0	(72) APPROACH ROADWAY ALIGNMENT	6
(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.)	25.9	36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	36D) APPROACH GUARDRAIL ENDS:	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(113) SCOUR CRITICAL BRIDGES	8
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	SUFFICIENCY RATING	81.7 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	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	07
(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		(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 366	(115) YEAR OF FUTURE ADT 2028	(103) TEMP STRUCTURE	
		(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	0
		(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.)	000
		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
		(40) NAV HORIZONTAL CLEARANCE (ft.)	0000

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Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
38 - Reinforced Concrete Slab	1- Ben.	4032	sq. ft.	738	3251	43	0
	-Concrete slab span with isolated areas of light abrasion on the driving surface of the deck. Random cracks typical in all spans visible on the driving surface of the deck. -Joint sealant between the spans is beginning to lose adhesion and leaks water on the bent caps. -Span 3 has a transverse crack located approximately 14" from the deck joint over Bent 4. The ends of the transverse crack becomes diagonal in the corners of Span 3. Transverse portion of the crack is not apparent from the undersurface of the deck at this inspection. The diagonal portions of the crack are visible from the undersurface of the deck with light efflorescence. -The curb face has areas of shallow spalling with exposed reinforcing steel with no section loss on the Left side of Spans 4, 5 & 6. -No shear cracks are visible from the edges of the deck.						
1080 - Delamination/Spall/Patched Area		3				3	
1090 - Exposed Rebar		5			5		
1120 - Efflorescence/Rust Staining		10			10		
1130 - Cracking (RC and Other)		127			87	40	
1190 - Abrasion/Wear (PSC/RC)		3149			3149		
205 - Reinforced Concrete Column	1- Ben.	10	each	4	6	0	0
	-Columns have light abrasion at the base of columns. -The Left column of Bent 2 has light map cracking at the cap juncture. -Bent 3, Column1 has 5 bullet impacts in the face of the column.						
1080 - Delamination/Spall/Patched Area		1			1		
1130 - Cracking (RC and Other)		1			1		
1190 - Abrasion/Wear (PSC/RC)		4			4		
220 - Reinforced Concrete Pile Cap/Footing	1- Ben.	60	ft.	60			
	-Footings have cover at this inspection.						
234 - Reinforced Concrete Pier Cap	1- Ben.	185	ft.	173	8	4	0
	-Two shallow basket ball size spalls with no exposed reinforcing steel at the Left side of Bent 5 cap. The right side of Bent 5 has a 20" delaminated area over the right column at the top of the cap. -Bent 6 has a horizontal crack that is approximately 4' long on the Left bottom edge of the cap. -Substructure caps have stains where water leaks through the deck joints. -Abutments:-The abutments are stained from apparent water leakage. -No apparent noteworthy problems at this inspection.						
1080 - Delamination/Spall/Patched Area		8			8		
1130 - Cracking (RC and Other)		4				4	

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302 - Compression Joint Seal	1- Ben.	187	ft.	0	169	15	3
	-The compression joint seals are in place and the joints appear to be free of incompressible materials. -The seals are not bonded to the ends of the slab and staining on the caps indicates that the seals leak water. -Compression joint seal is missing in a few minor locations.						
2310 - Leakage		184			169	15	
2330 - Seal Damage		3					3
330 - Metal Bridge Railing	1- Ben.	336	ft.	0	336	0	0
	-One baseball size spall with exposed reinforcing steel is visible from the undersurface of one post on the Left side of structure over Bent 5. -The paint system is beginning to fail on the metal rail with flaking paint with no apparent active corrosion that is causing section loss.						
1000 - Corrosion		336			336		
515 - Steel Protective Coating		672	sq. ft.	0	672	0	0
3440 - Effectiveness (Steel Protective Coatings)		672			672		

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Pictures

PHOTO 1

Description

PHOTO 2

Description

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Bridge Inspection Report

Sketches

Inspector:

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Maintenance Needs

Date Reported: 4/16/2012 12:00:00 AM

Priority: D - Routine

Work Code: Replace

Deficiency Description:

Deck

The joint sealant between the spans is deteriorated, leaks water and has a few minor areas that are completely missing.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description The deck joint sealant is deteriorating, leaks water and has a few minor areas where the seal is completely missing.

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Maintenance Needs

Date Reported: 3/3/2014 12:00:00 AM

Priority: D - Routine

Work Code: Repair

Deficiency Description:

Deck

Span # 3 has a transverse crack located approximately 14" from the deck joint over Bent # 4.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Span # 3 cracking adjacent to the deck joint.

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Maintenance Needs

Date Reported: 03/13/2018

Priority: C - Important

Work Code:

Deficiency Description:

Channel

Span # 3 is partially restricted by drift accumulation.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Span # 3 drift accumulation.