

Bridge Inspection Report

05372
US 70-6 Log 5.72
over
Sugar Loaf Creek



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

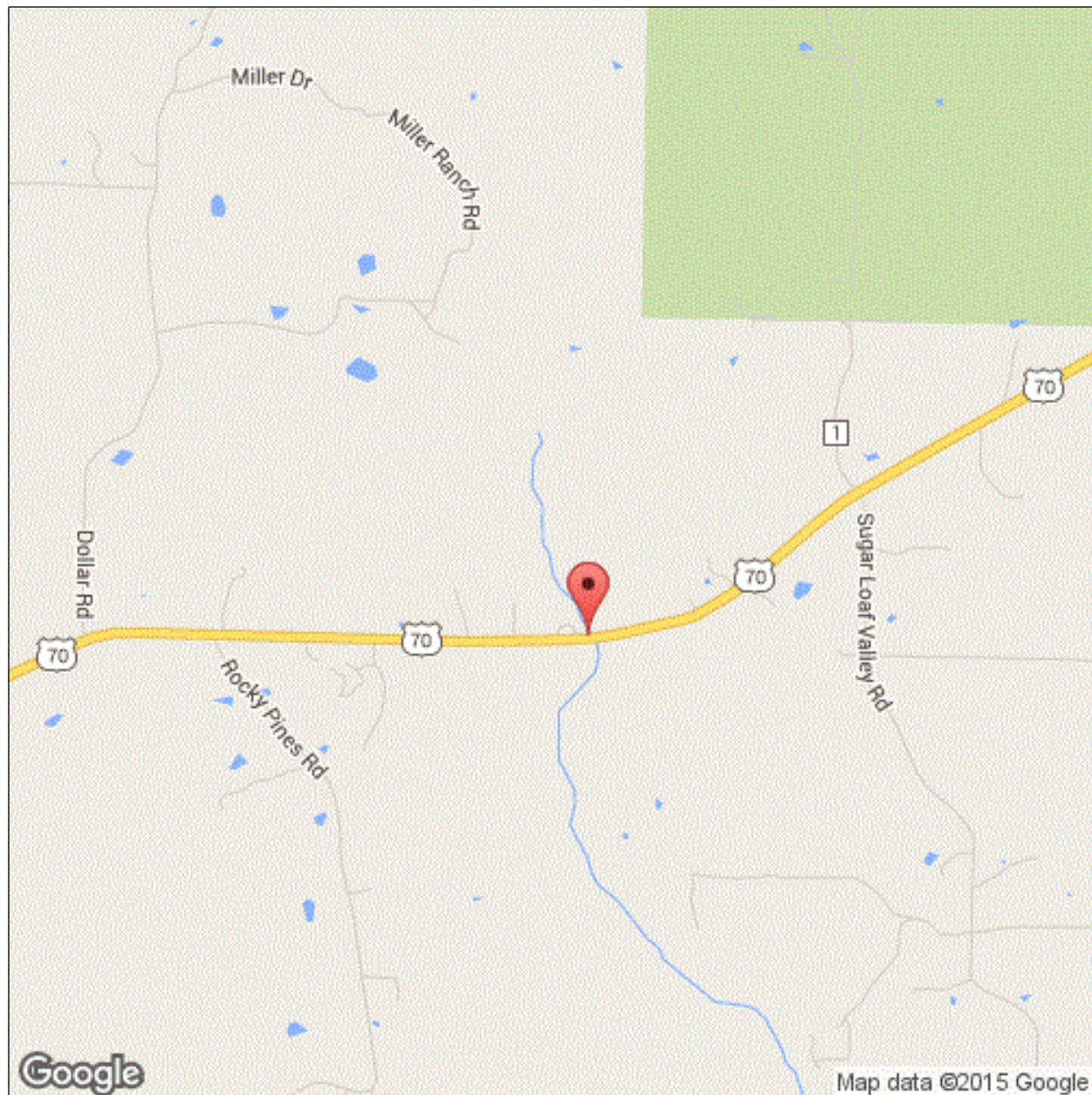
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Bridge Inspection Report

Location Map



Latitude: 34.37242

Longitude: -93.40961

Inspector:

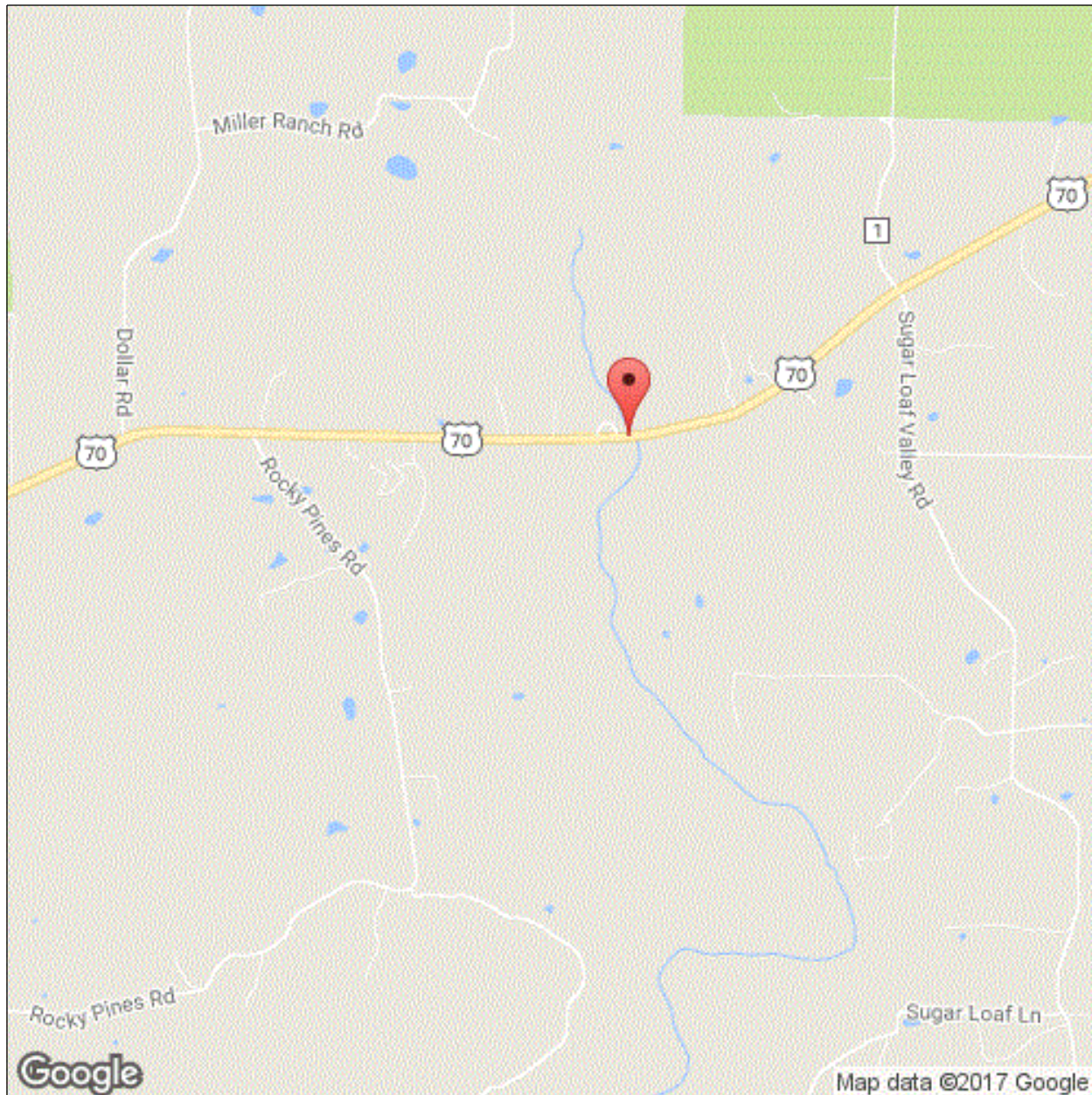
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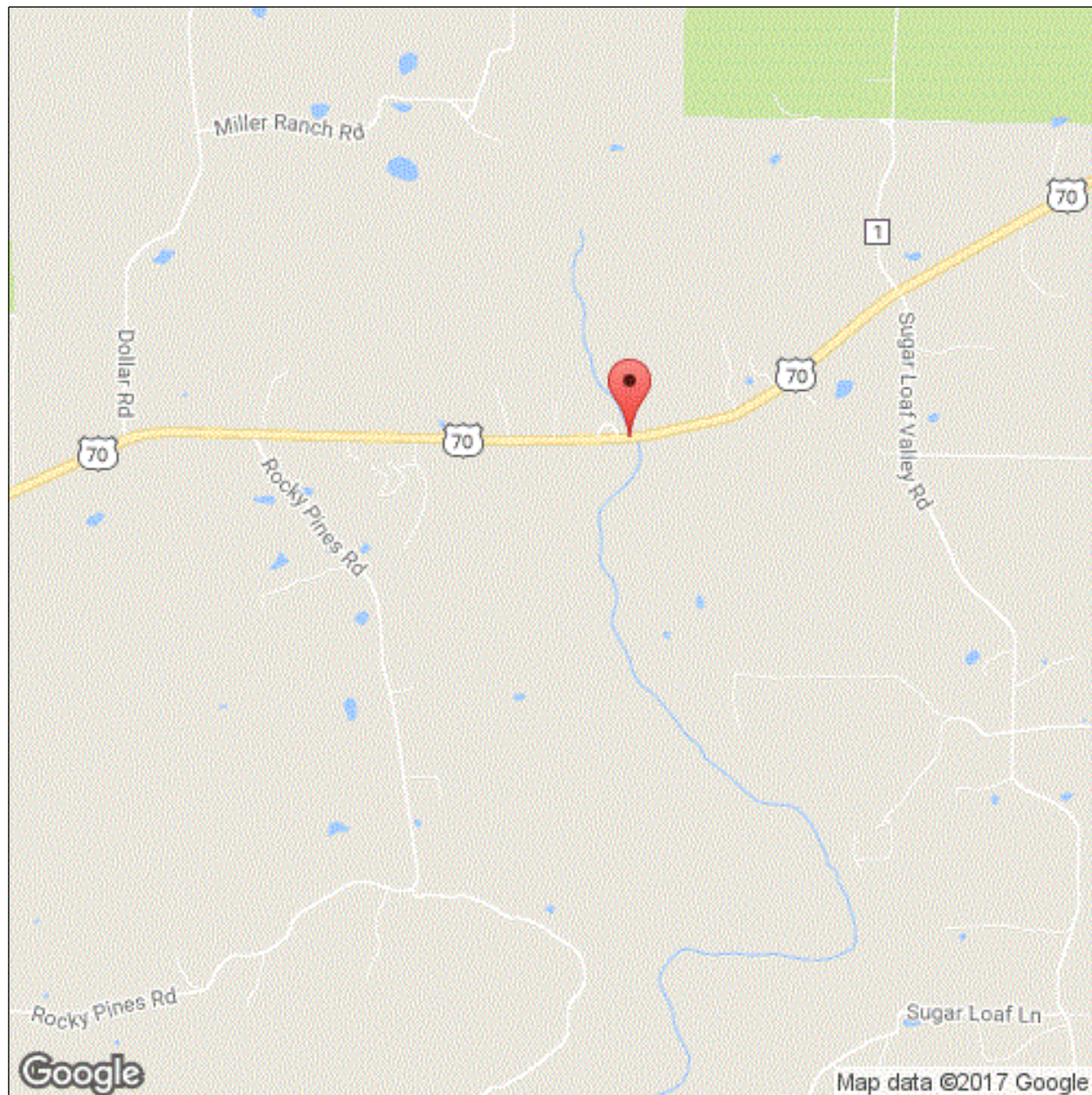
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Executive Summary

Job #1450, Drawing #18543 Layout.

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National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	11/13/2017
(8) STRUCTURE NUMBER	05372	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 70 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	08 (3) COUNTY CODE 097	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Sugar Loaf Creek	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 70-6 Log 5.72		
(9) LOCATION	HOT SPRGS CO, MONTG CO LI		
(11) MILEPOINT 5.720	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000070060 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.37242	(17) LONGITUDE -93.40961		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	7
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 1976	(106) YEAR RECONSTRUCTED 0000	(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 5300	(19) BYPASS DETOUR LENGTH 16	(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 1		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 40	(49) STRUCTURE LENGTH (ft.) 122	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0	RIGHT 0	(68) DECK GEOMETRY	5
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	43.0	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	46.3	(71) WATERWAY ADEQUACY	7
(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:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	44.3	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	90.5 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	06
(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 6030	(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	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.	5250	sq. ft.	5132	118	0	0
Light density of moderate unsealed transverse cracks							
1130 - Cracking (RC and Other)		118		0	118	0	0
107 - Steel Open Girder/Beam	1- Ben.	840	ft.	540	300	0	0
Scattered freckled rust on the bottom flanges of all beams.							
1000 - Corrosion		300		0	300	0	0
515 - Steel Protective Coating		5107	sq. ft.	4507	600	0	0
3440 - Effectiveness (Steel Protective Coatings)		600		0	600	0	0
205 - Reinforced Concrete Column	1- Ben.	4	each	4	0	0	0
215 - Reinforced Concrete Abutment	1- Ben.	110	ft.	100	8	2	0
Both abutments have minor vertical cracks bent 4 has two small spalls with exposed rebar.							
1080 - Delamination/Spall/Patched Area		3		0	1	2	0
1090 - Exposed Rebar		1		0	1	0	0
1130 - Cracking (RC and Other)		6		0	6	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	90	ft.	62	28	0	0
Bent 2 ahead face has exposed rebar and cracks							
1080 - Delamination/Spall/Patched Area		17		0	17	0	0
1090 - Exposed Rebar		3		0	3	0	0
1130 - Cracking (RC and Other)		8		0	8	0	0
302 - Compression Joint Seal	1- Ben.	184	ft.	23	23	0	138
Joint #'s 1, 2 & 3 - seal material is completely missing. Joint #4 - seal material has slipped, ripped and punctured in some places.							
2320 - Seal Adhesion		161		0	23	0	138
311 - Movable Bearing	1- Ben.	21	each	6	15	0	0
Most bearing have light rust.							
1000 - Corrosion		15		0	15	0	0
313 - Fixed Bearing	1- Ben.	21	each	2	0	19	0
Most bearing have moderate rust.							
1000 - Corrosion		19		0	0	19	0

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321 - Reinforced Concrete Approach Slab	1- Ben.	1548	sq. ft.	1523	25	0	0
	Bare concrete at the beginning of bridge. Concrete with asphalt overlay at end of bridge - Major cracks and minor spalls in asphalt surface. Defects are for conditions in asphalt surface.						
1080 - Delamination/Spall/Patched Area		1		0	1	0	0
1130 - Cracking (RC and Other)		24		0	24	0	0
330 - Metal Bridge Railing	1- Ben.	244	ft.	244	0	0	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	244	ft.	244	0	0	0

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Pictures

PHOTO 1

Description

PHOTO 1

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Bridge Inspection Report

Pictures

PHOTO 2

Description

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Sketches

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Maintenance Needs

Date Reported: 8/21/2013 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Joint seals are missing at bent 1,2 & 3

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Bent 1 joint seal missing