

Bridge Inspection Report

05365

SH 229 S-0 LM 3.13

over

HURRICANE CREEK



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

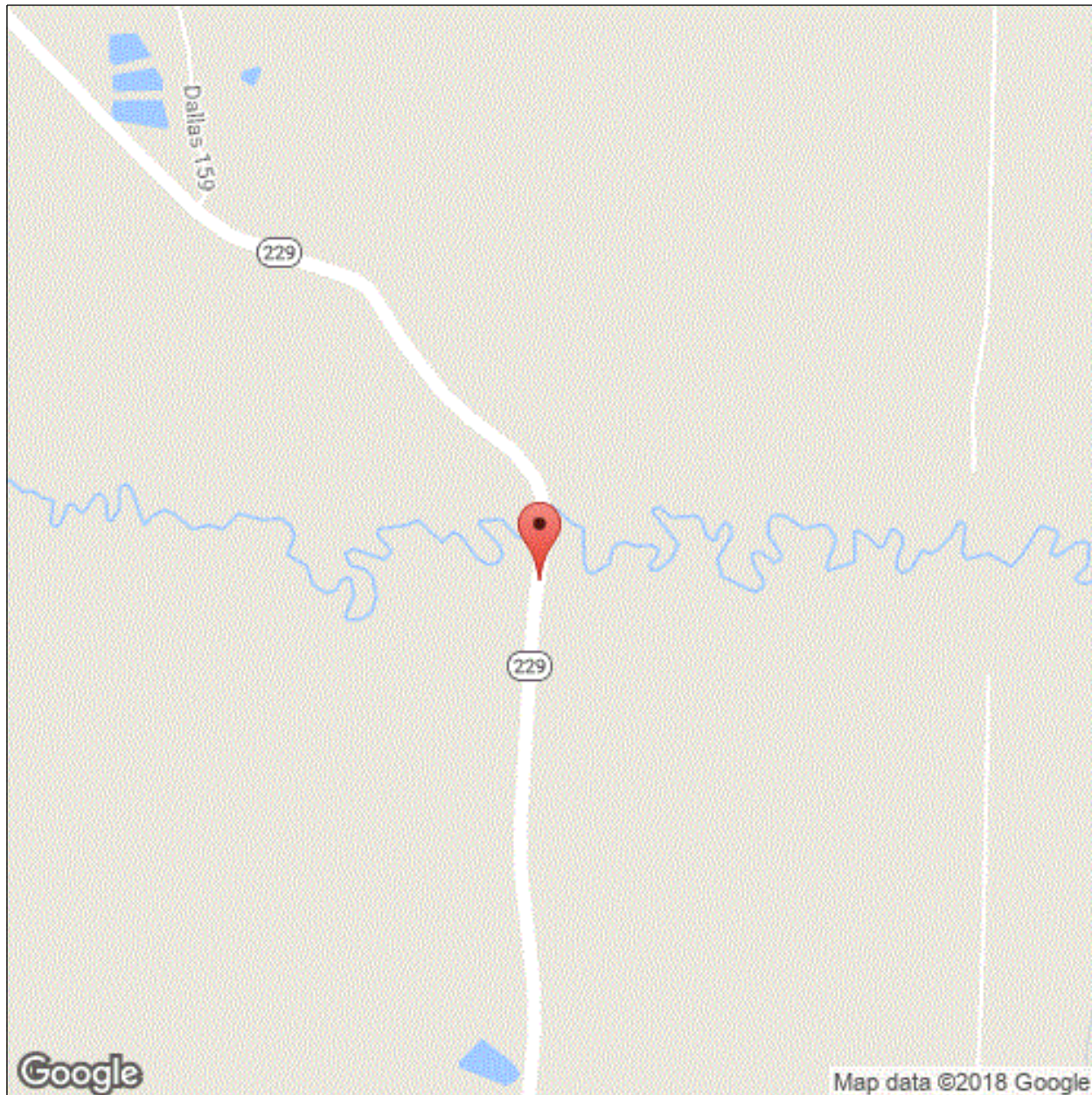
Inspection Date:

Structure Number: 05365

Facility Carried: SH 229 S-0 LM 3.13

Bridge Inspection Report

Location Map



Latitude: 33.87438

Longitude: -92.43477

Inspector:

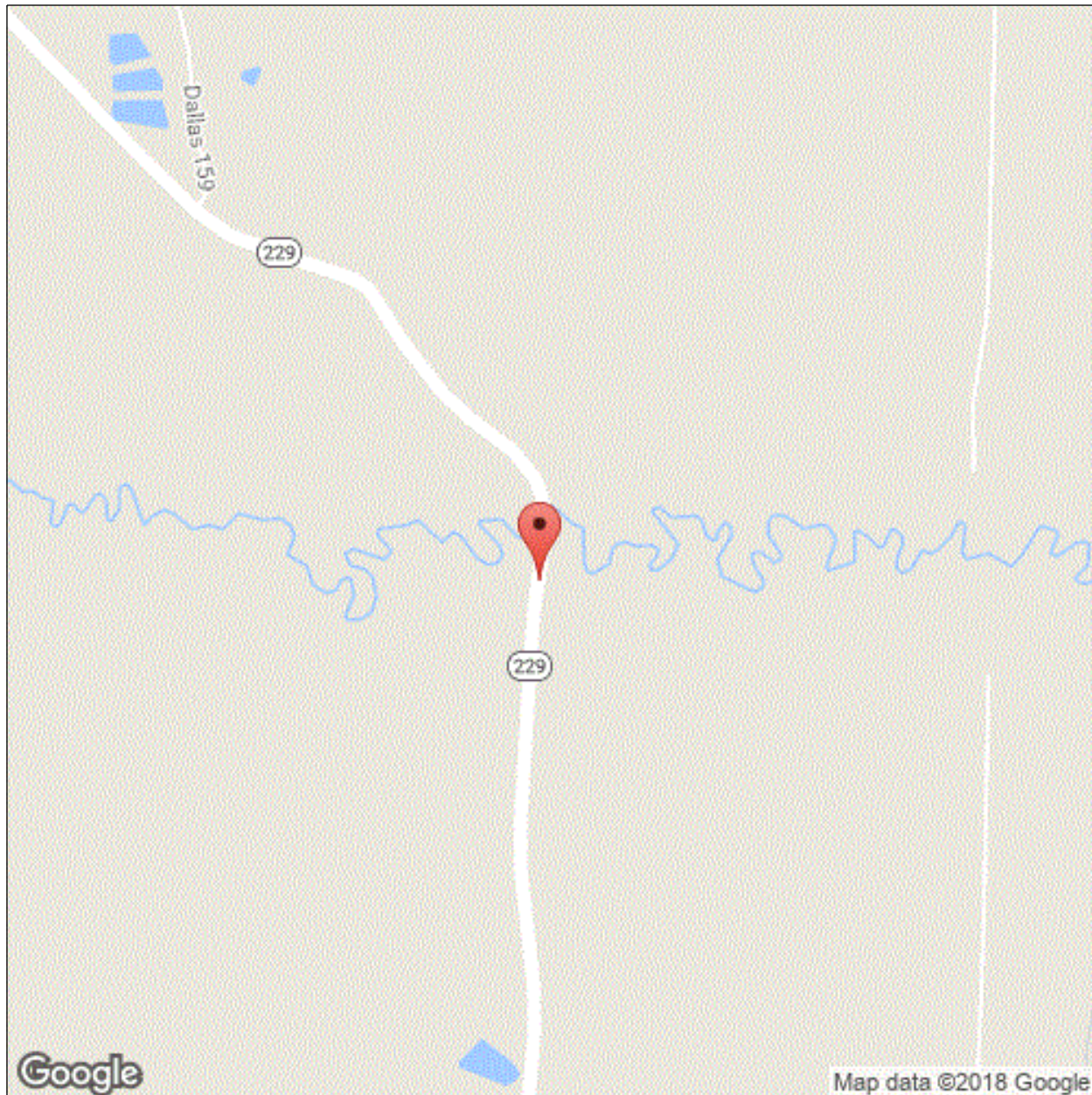
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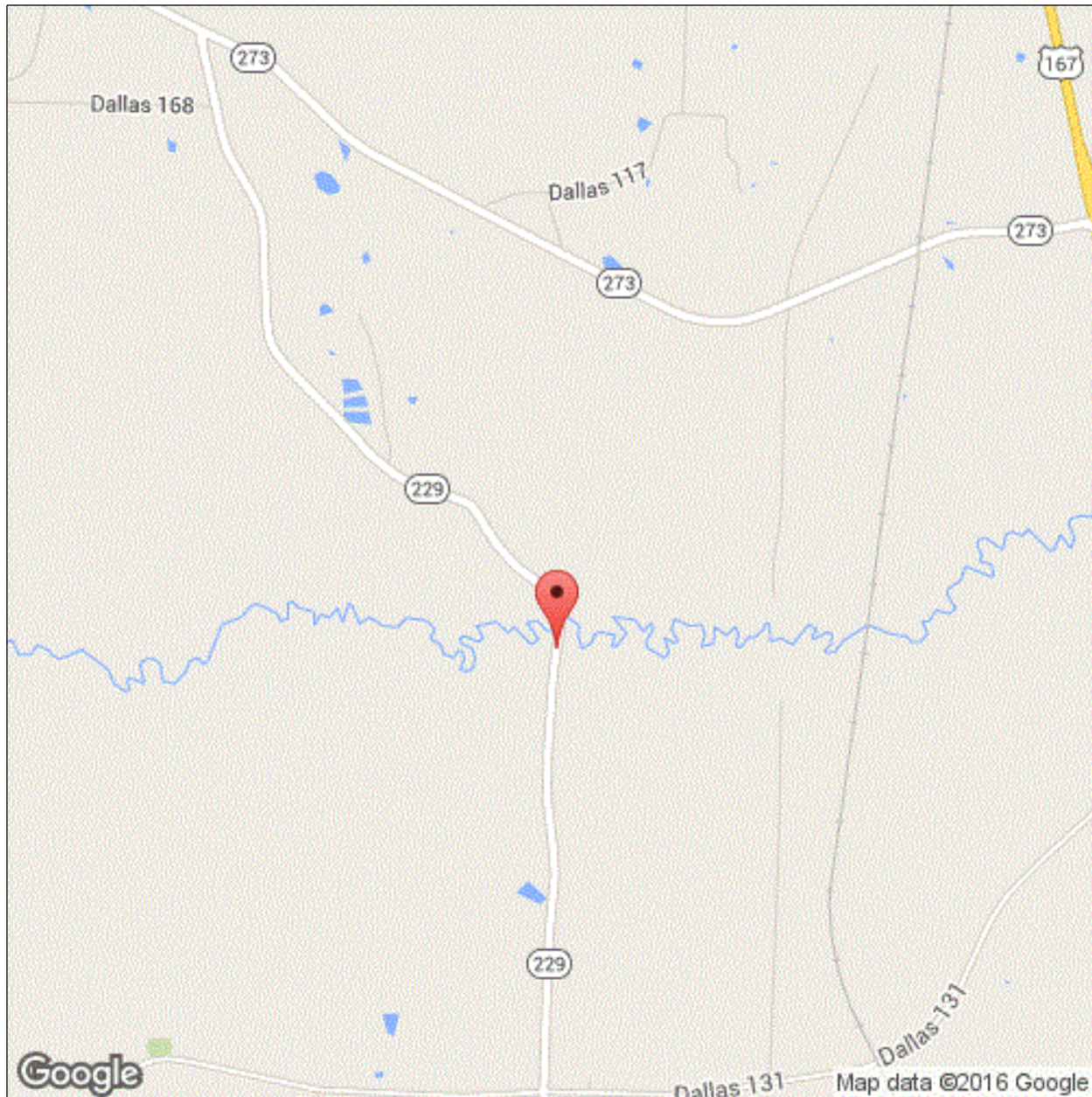
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Executive Summary

This structure is logged from South to North.

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National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	02/07/2018
(8) STRUCTURE NUMBER	05365	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 229 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	07 (3) COUNTY CODE 039	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	HURRICANE CREEK	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 229 S-0 LM 3.13		
(9) LOCATION	3.3 MI N JCT SH 8	CONDITION	
(11) MILEPOINT 3.130	(12) BASE HIGHWAY NETWORK 0	(58) DECK	7
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00	(59) SUPERSTRUCTURE	7 (60) SUBSTRUCTURE 8
(16) LATITUDE 33.87438	(17) LONGITUDE -92.43477	(61) CHANNEL & CHANNEL PROTECTION	7 (62) CULVERT N
(98A) BORDER BRIDGE CODE		LOAD RATING AND POSTING	
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT	(31) DESIGN LOAD	4
		(63) METHOD USED TO DETERMINE OPERATING RATING	1
STRUCTURE TYPE AND MATERIAL		(64) OPERATING RATING	58
(43) STRUCTURE TYPE, MAIN		(65) METHOD USED TO DETERMINE INVENTORY RATING	1
A) KIND OF MATERIAL/DESIGN:	1 - Concrete	(66) INVENTORY RATING	35
B) TYPE OF DESIGN/CONSTR:	01 - Slab	(70) BRIDGE POSTING	5
(44) STRUCTURE TYPE, APPROACH SPANS		(41) STRUCTURE OPEN/POSTED/CLOSED	A
A) KIND OF MATERIAL/DESIGN:	0 - Other	APPRAISAL	
B) TYPE OF DESIGN/CONSTR:	00 - Other	(67) STRUCTURAL EVALUATION	7
(45) NUMBER OF SPANS IN MAIN	3 (46) NUMBER OF APPROACH	(68) DECK GEOMETRY	5
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION	(71) WATERWAY ADEQUACY	7
		(72) APPROACH ROADWAY ALIGNMENT	8
AGE OF SERVICE		(36) TRAFFIC SAFETY FEATURE	
(27) YEAR BUILT	1971 (106) YEAR RECONSTRUCTED	36A) BRIDGE RAILINGS:	1
(42) TYPE OF SERVICE	ON 1 UNDER 5	36B) TRANSITIONS:	0
(28) LANES	ON 02 UNDER 00	36C) APPROACH GUARDRAIL:	0
(29) AVERAGE DAILY TRAFFIC	760 (19) BYPASS DETOUR LENGTH	36D) APPROACH GUARDRAIL ENDS:	0
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(113) SCOUR CRITICAL BRIDGES	5
(109) AVERAGE DAILY TRUCK TRAFFIC	1	SUFFICIENCY RATING	89.2 STATUS 0
GEOMETRIC DATA		CLASSIFICATION	
(48) LENGTH OF MAX SPAN (ft.)	33 (49) STRUCTURE LENGTH (ft.)	(112) NBIS BRIDGE LENGTH	Y
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0 RIGHT 0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	27.9	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	07
(52) DECK WIDTH, OUT-TO-OUT (ft.)	31.9	(100) STRAHNET HIGHWAY DESIGNATION	0
(32) APPROACH ROADWAY WIDTH (ft.)	27.9	(101) PARALLEL STRUCTURE DESIGNATION	N
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	(102) DIRECTION OF TRAFFIC	2
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	(103) TEMP STRUCTURE	
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	28.9	(105) FEDERAL LANDS HIGHWAYS	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	(110) DESIGNATED NATIONAL NETWORK	0
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	(20) TOLL	3
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(21) MAINTENANCE RESPONSIBILITY	01
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	(37) HISTORICAL	5
PROPOSED IMPROVEMENTS		NAVIGATION DATA	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(38) NAVIGATION CONTROL	0
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0	(111) PIER OR ABUTMENT PROTECTION	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(39) NAV VERT CLEARANCE (ft.)	0
(95) ROADWAY IMPROVEMENT COST (\$)	0	(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
(96) TOTAL PROJECT COST	0	(40) NAV HORIZONTAL CLEARANCE (ft.)	0
(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(114) FUTURE ADT	835 (115) YEAR OF FUTURE ADT		
	2028		

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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.	3158	sq. ft.	689	2369	100	0
	Span one has a large spalled/shelled area with no exposed steel. 02/07/2018 JPR -- there are areas where the concrete has deteriorated from salt contamination due to water standing on the Rt. side of the bridge with the worst is on span 1.						
1080 - Delamination/Spall/Patched Area		100				100	
1190 - Abrasion/Wear (PSC/RC)		2369			2369		
215 - Reinforced Concrete Abutment	1- Ben.	56	ft.	28	28	0	0
	02/07/2018 JPR -- Abutment 1 cap, scour back under the abutment cap with minor roadway settlement, see pictures.						
6000 - Scour		28			28		
227 - Reinforced Concrete Pile	1- Ben.	10	each	10			
234 - Reinforced Concrete Pier Cap	1- Ben.	56	ft.	56			
330 - Metal Bridge Railing	1- Ben.	198	ft.	198			

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Pictures

PHOTO 2

Description

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Sketches

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Maintenance Needs

Date Reported: 2/27/2014 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Span 1 Rt. deck spalls, from gutter line and starting about 1' off beginning of bridge, there is about 6' - 8' of deck spalling from roadway salts. This spall is about 1" deep, there is no steel exposed now. Span 1 Rt. about midspan and from gutter line out there is deck spalling that is about 4' long.

Span 1 Lt. of C/L there is deck cracking with some indentation, appears that this took place during the pour of the deck, looks like shrinkage cracks.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Spall span 1 right.

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Maintenance Needs

Date Reported: 2/27/2014 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Abutment Scour, abutment 1 Rt. side from C/L Rt. there is scouring below bottom of abutment cap about 1 1/2 ft, and scour goes to backside of cap, with minor roadway settlement. Abutment 2 slope is scouring back towards abutment from about C/L Lt. with minor scouring under abutment 2 cap. Neither abutment slopes have any slope protection. 02/07/2018 JPR -- the scour under the abutment cap is about 3/4 of the abutment cap length from Rt. to Lt.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Minor washing abutment 1

Stage: Assigned



PHOTO 2 Description Abutment 1 cap, scour back under the abutment cap with minor roadway settlement.

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Maintenance Needs

Date Reported: 02/07/2018

Priority: D - Routine

Work Code:

Deficiency Description:

02/07/2018 JPR -- There is a small hole at abutment 1 right side @ abutment.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Hole at abutment 1 right side @ BR end.