

Bridge Inspection Report

A3617
I-40WB/Se51/239.52
over
Drainage Ditch



Inspection Date:

Inspected By:

Inspection Type(s):

TABLE OF CONTENTS

	PAGE NUMBER
LOCATION MAP	3
NATIONAL BRIDGE INVENTORY	7
ELEMENTS	8
PICTURES	9
SKETCHES	11

Inspector:

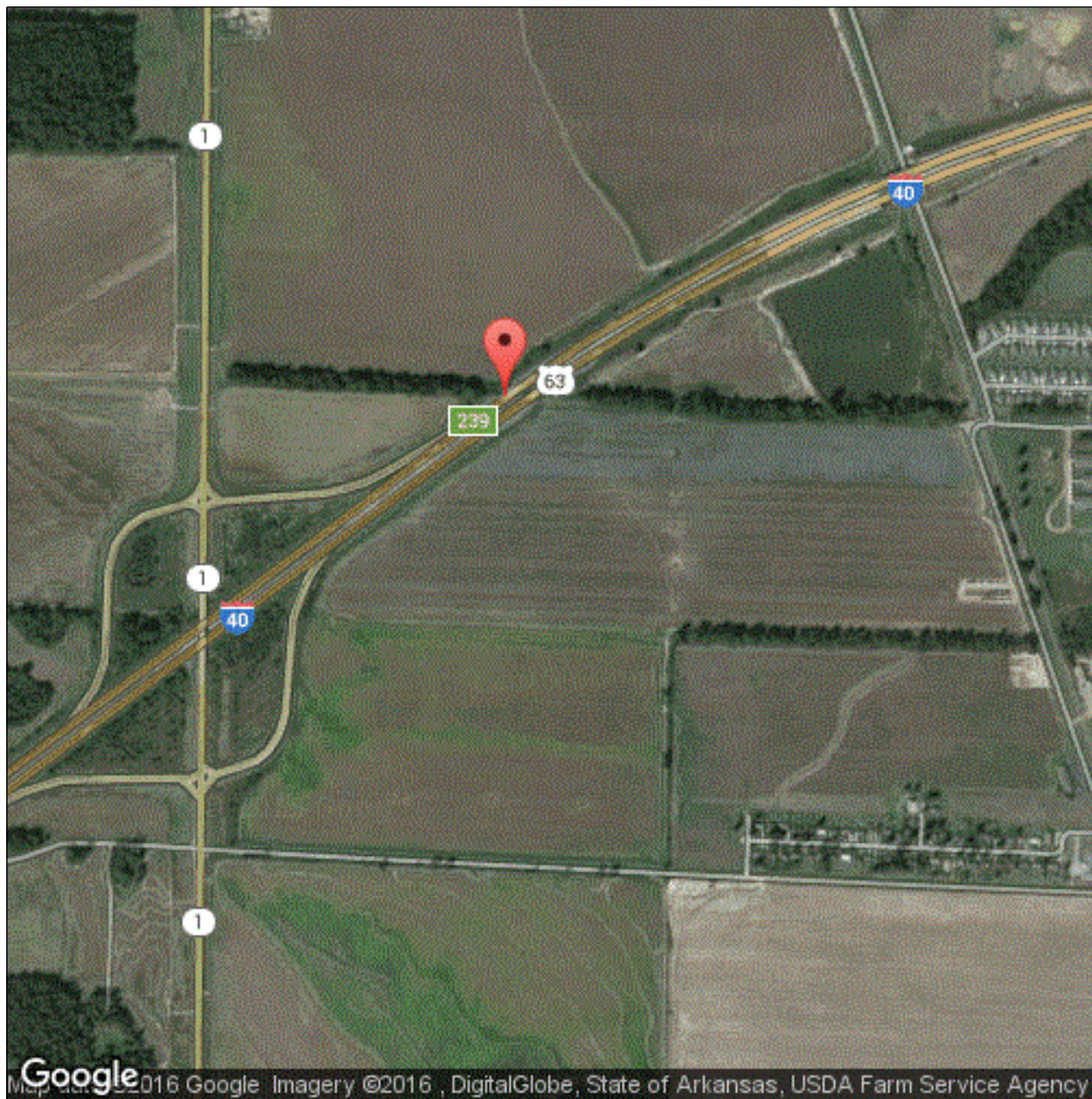
Inspection Date:

Structure Number: A3617

Facility Carried: I-40WB/Se51/239.52

Bridge Inspection Report

Location Map



Latitude: 35.030521

Longitude: -90.810699

Inspector:

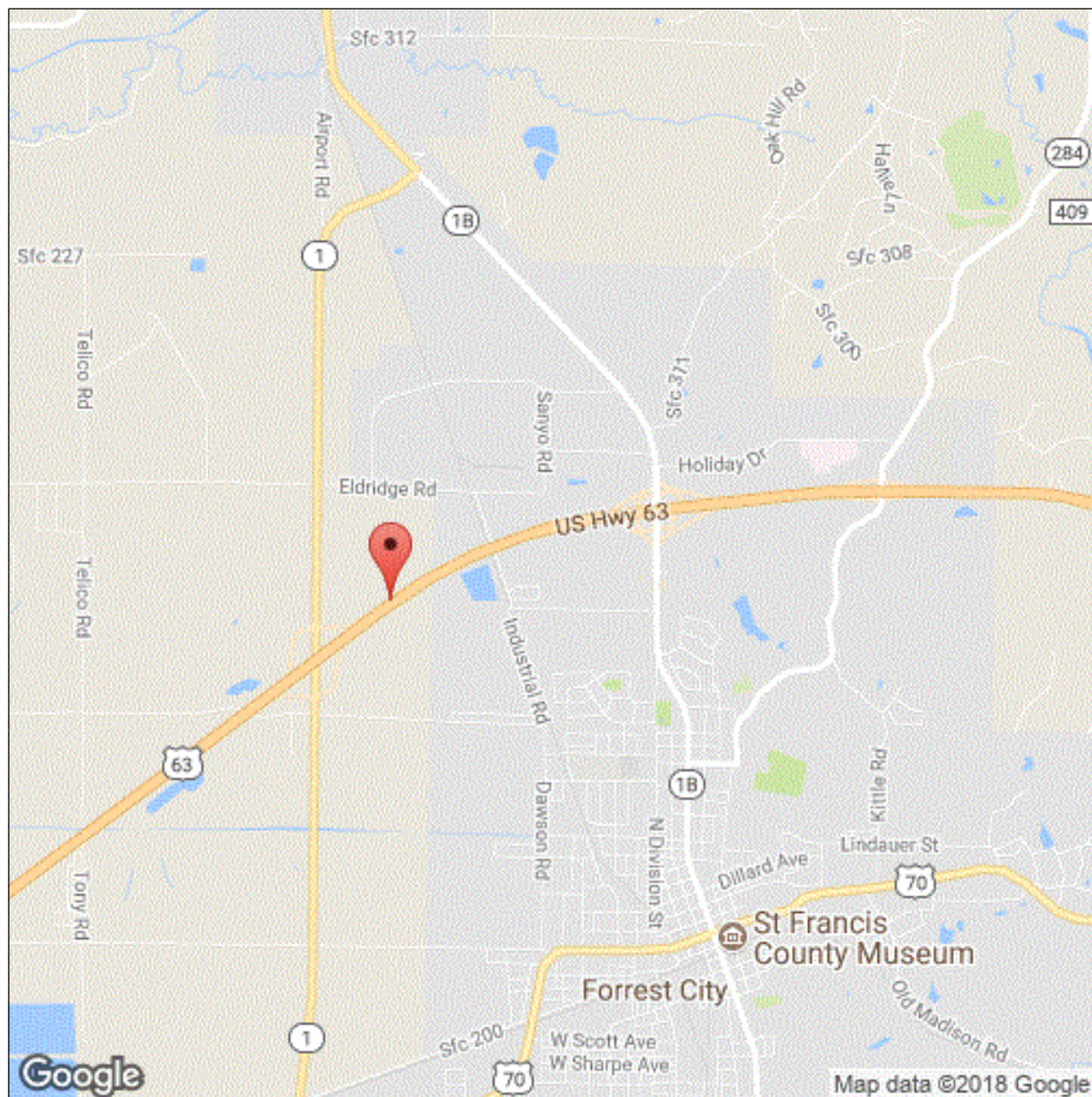
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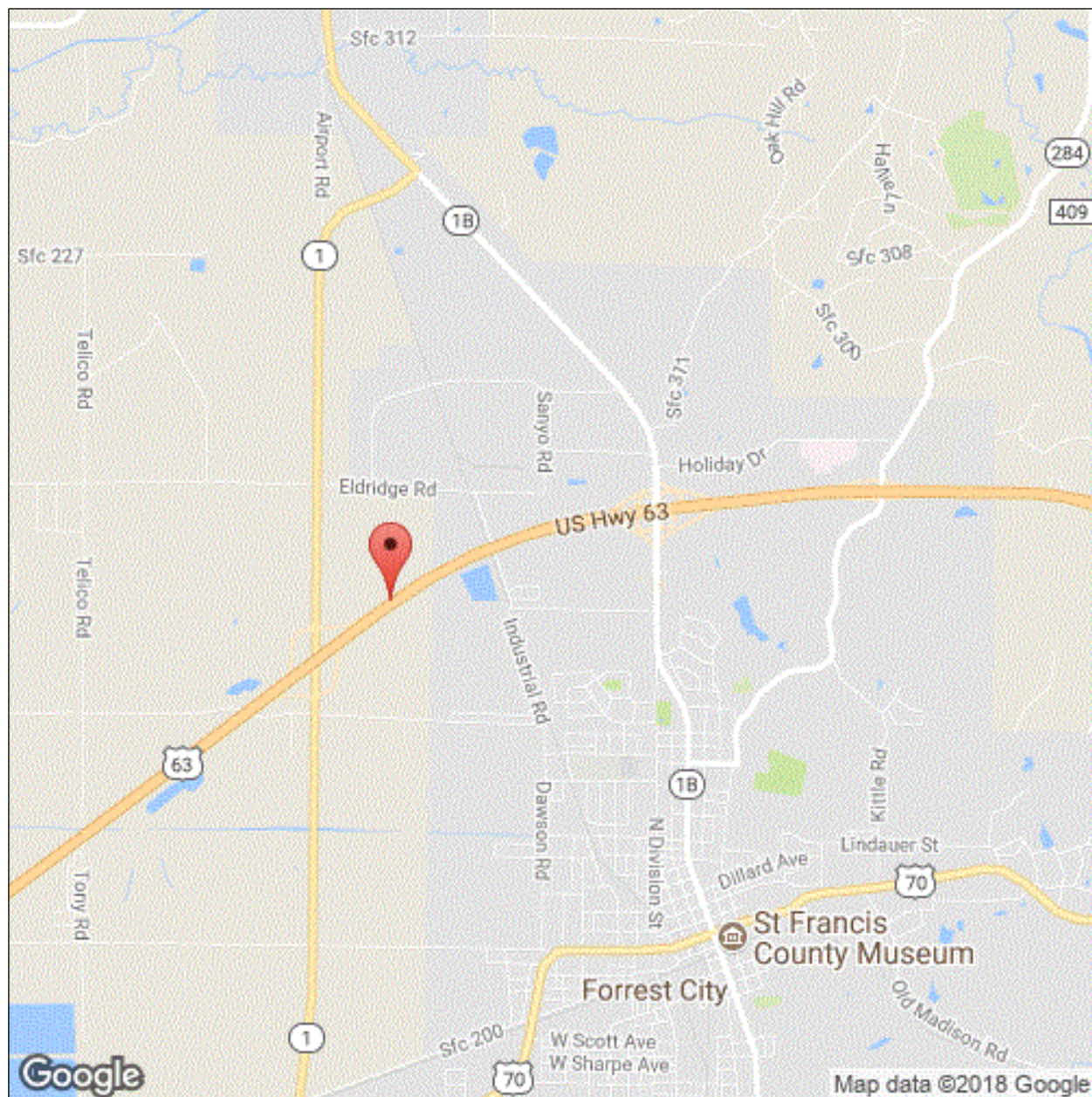
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Executive Summary

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	04/09/2018
(8) STRUCTURE NUMBER	A3617	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 1 1 40 4	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	01 (3) COUNTY CODE 123	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Drainage Ditch	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	I-40WB/Se51/239.52		
(9) LOCATION	1.2 Mi West Of Jct Sh 1		
(11) MILEPOINT 239.520	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000040510 (13B) SUBROUTE NUMBER -1		
(16) LATITUDE	35.030521 (17) LONGITUDE -90.810699		
(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	5 (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		
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE		
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1965 (106) YEAR RECONSTRUCTED	(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	46228 (19) BYPASS DETOUR LENGTH	(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	51	(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	30 (49) STRUCTURE LENGTH (ft.)	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0 RIGHT 0	(68) DECK GEOMETRY	6
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	39.7	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	42.3	(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.)	38.1	(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	36A) BRIDGE RAILINGS:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	40.7	36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(113) SCOUR CRITICAL BRIDGES	5
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	SUFFICIENCY RATING	87.2 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	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	11
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	1
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	L
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	1
(114) FUTURE ADT	22628 (115) YEAR OF FUTURE ADT	(103) TEMP STRUCTURE	
	2027	(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.)	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.	3780	sq. ft.	2414	0	1366	0
	Each span has several open cracks with areas of light efflorescence and areas of rust staining in soffit. 2'X3' Delamination in soffit span #3 near pile #3.						
1080 - Delamination/Spall/Patched Area		6		0	0	6	0
1120 - Efflorescence/Rust Staining		1360		0	0	1360	0
215 - Reinforced Concrete Abutment	1- Ben.	161	ft.	161	0	0	0
227 - Reinforced Concrete Pile	1- Ben.	17	each	17	0	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	143	ft.	133	2	8	0
	Bent #2 cap back face has a 1' delamination at top between piles #6,7. Bent #3 cap back face has a 1' delamination between piles #4,5. Top of caps at bents #2,3 on ends are scaled. Bent #2 cap back face has a form left in place.						
1080 - Delamination/Spall/Patched Area		6		0	2	4	0
1090 - Exposed Rebar		4		0	0	4	0
301 - Pourable Joint Seal	1- Ben.	272	ft.	262	0	0	10
	Bent #2,3 poured joint seal has a few spots of loss of adhesion ten feet total.						
2320 - Seal Adhesion		10		0	0	0	10
321 - Reinforced Concrete Approach Slab	1- Ben.	1680	sq. ft.	1260	0	420	0
	Both approach slabs have open transverse cracks.						
1130 - Cracking (RC and Other)		420		0	0	420	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	180	ft.	119	61	0	0
	Rails have vertical cracks spaced three feet apart.						
1130 - Cracking (RC and Other)		61		0	61	0	0

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Pictures

PHOTO 1

Description

PHOTO 1

Description

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Bridge Inspection Report

Pictures

PHOTO 2

Description

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Bridge Inspection Report

Sketches

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Maintenance Needs

Date Reported: 4/10/2014 12:00:00 AM

Priority: C - Important

Work Code: N/A

Deficiency Description:

Both approach slabs have open transverse cracks.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description

Inspector:

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Maintenance Needs

Date Reported: 04/09/2018

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Bent #2,3 poured joint seal has a few spots of loss of adhesion ten feet total.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Bent #2,3 poured joint seal has a few spots of loss of adhesion ten feet total.