

Bridge Inspection Report

A6043
I-555-02SB-LM22.96
over
CR 266-C- DITCH 23



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

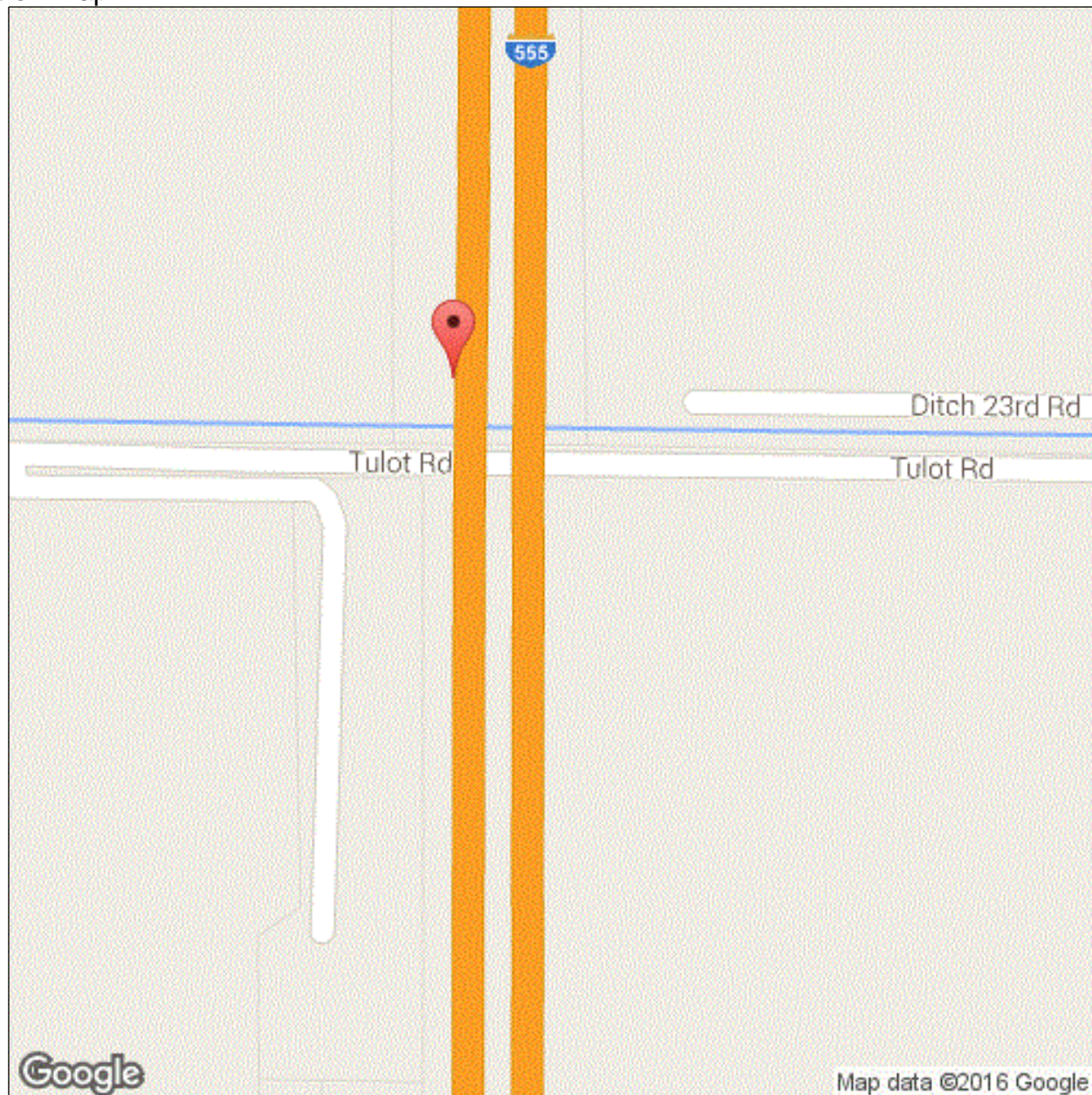
Inspection Date:

Structure Number: A6043

Facility Carried: I-555-02SB-
LM22.96

Bridge Inspection Report

Location Map



Latitude: 35.62021

Longitude: -90.49675

Inspector:

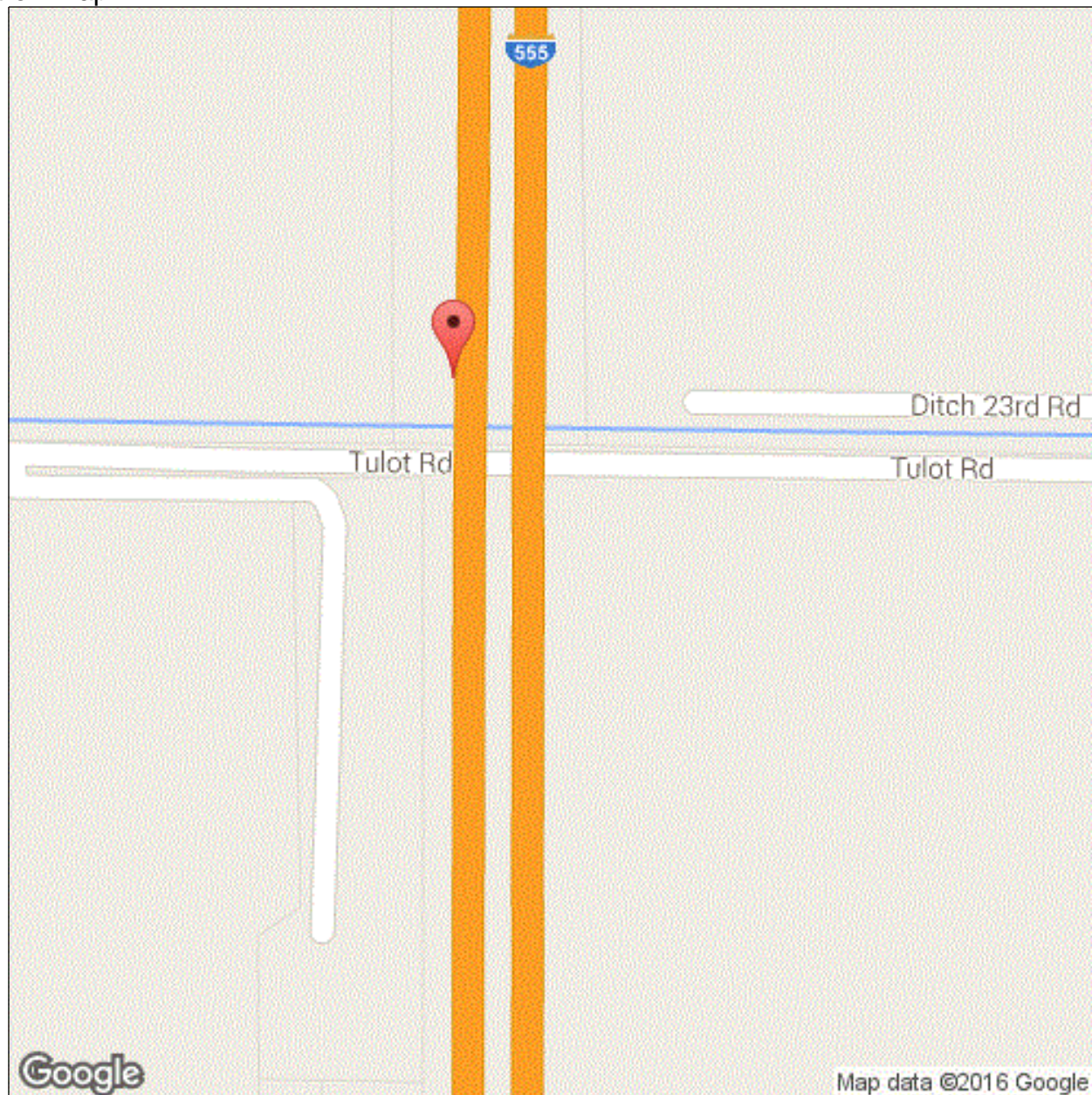
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Bridge Inspection Report

Location Map



Latitude: 35.62021

Longitude: -90.49675

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Bridge Inspection Report

Executive Summary

A6043 Inspection Notes

4-20-2016 TJM

New I-555 on Old US 63

Changes Item 47 due to the Construction of new Approach Railing.

Bent 1 Compression Seal has 16 ft. dropped down, (Both shoulders).

Bent 4 Compression Seal is ripped and torn, 30ft. is missing.

Top of Deck has a few sealable cracks.

Bottom of Deck has some cracking with light efflorescence, especially through construction joints.

Steel Girders are rusted with some pitting.

Ends of Majority of Girders over Bents 1 & 4 are rusted with initial loss of section, 3 ft long area typical.

Span 2 Girder 4 Splice 1 has one bolt loose on bottom flange.

Bearing on Bents 1 & 4 are rust covered.

Rubber Bearing Pads are beginning to crack and Split.

Bents 2 & 3 Cap has a few insignificant size and density vertical crack in face of cap.

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Executive Summary

Large void under Concrete Slope Protection, N.W. Corner of Bridge has been repaired in the past with flowable fill, no significant change in repairs 2014 Inspection.

Large Void under Concrete Approach Gutter on the South West corner, 7ft. under concrete and 3.5ft. deep, see 2014 photo.

Brush and Small Trees growing in ditch under **Span 2** and between A&B Bridges

Minimum clearances verified 2016 inspection.

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National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	04/20/2016
(8) STRUCTURE NUMBER	A6043	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 1 1 555 3	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	10 (3) COUNTY CODE 111	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	CR 266-C- DITCH 23	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	I-555-02SB-LM22.96		
(9) LOCATION	E SH 463 & CORD 266	CONDITION	
(11) MILEPOINT 22.96	(12) BASE HIGHWAY NETWORK 1	(58) DECK	7
(13A) LRS INVENTORY ROUTE	0000063080 (13B) SUBROUTE NUMBER 00	(59) SUPERSTRUCTURE	7 (60) SUBSTRUCTURE 8
(16) LATITUDE 35.62021	(17) LONGITUDE -90.49675	(61) CHANNEL & CHANNEL PROTECTION	8 (62) CULVERT N
(98A) BORDER BRIDGE CODE		LOAD RATING AND POSTING	
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT	(31) DESIGN LOAD	5
STRUCTURE TYPE AND MATERIAL		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(43) STRUCTURE TYPE, MAIN		(64) OPERATING RATING	60.0
A) KIND OF MATERIAL/DESIGN:	4 - Steel continuous	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder	(66) INVENTORY RATING	36.0
(44) STRUCTURE TYPE, APPROACH SPANS		(70) BRIDGE POSTING	5
A) KIND OF MATERIAL/DESIGN:	0 - Other	(41) STRUCTURE OPEN/POSTED/CLOSED	A
B) TYPE OF DESIGN/CONSTR:	00 - Other	APPRAISAL	
(45) NUMBER OF SPANS IN MAIN	3 (46) NUMBER OF APPROACH	(67) STRUCTURAL EVALUATION	7
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE	(68) DECK GEOMETRY	7
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	3
AGE OF SERVICE		(71) WATERWAY ADEQUACY	8
(27) YEAR BUILT	1984 (106) YEAR RECONSTRUCTED	(72) APPROACH ROADWAY ALIGNMENT	8
(42) TYPE OF SERVICE	ON 1 UNDER 6	(36) TRAFFIC SAFETY FEATURE	
(28) LANES	ON 02 UNDER 02	36A) BRIDGE RAILINGS:	1
(29) AVERAGE DAILY TRAFFIC	12907 (19) BYPASS DETOUR LENGTH	36B) TRANSITIONS:	1
(30) YEAR OF AVERAGE DAILY TRAFFIC	2013	36C) APPROACH GUARDRAIL:	1
(109) AVERAGE DAILY TRUCK TRAFFIC	1	36D) APPROACH GUARDRAIL ENDS:	1
GEOMETRIC DATA		(113) SCOUR CRITICAL BRIDGES	5
(48) LENGTH OF MAX SPAN (ft.)	91 (49) STRUCTURE LENGTH (ft.)	SUFFICIENCY RATING	2 STATUS 92.7
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0 RIGHT 0	CLASSIFICATION	
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	40.0	(112) NBIS BRIDGE LENGTH	Y
(52) DECK WIDTH, OUT-TO-OUT (ft.)	42.8	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(32) APPROACH ROADWAY WIDTH (ft.)	40.0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	01
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	(100) STRAHNET HIGHWAY DESIGNATION	1
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	(101) PARALLEL STRUCTURE DESIGNATION	R
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	40.6	(102) DIRECTION OF TRAFFIC	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	(103) TEMP STRUCTURE	
(54) VERTICAL UNDER CLEARANCE (ft.)	H 15.25	(105) FEDERAL LANDS HIGHWAYS	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H 1.7	(110) DESIGNATED NATIONAL NETWORK	1
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	(20) TOLL	3
PROPOSED IMPROVEMENTS		(21) MAINTENANCE RESPONSIBILITY	01
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(22) OWNER	01
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0	(37) HISTORICAL	5
(94) BRIDGE IMPROVEMENT COST (\$)	0	NAVIGATION DATA	
(95) ROADWAY IMPROVEMENT COST (\$)	0	(38) NAVIGATION CONTROL	0
(96) TOTAL PROJECT COST	0	(111) PIER OR ABUTMENT PROTECTION	5
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(39) NAV VERT CLEARANCE (ft.)	0
(114) FUTURE ADT	6830 (115) YEAR OF FUTURE ADT	(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
	2028	(40) NAV HORIZONTAL CLEARANCE (ft.)	0

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National Bridge Inventory

UNDER RECORD 2

IDENTIFICATION

(1) STATE CODE	056 - Arkansas	(7) FACILITY CARRIED	I-555-08SB-LM22.96
(3) COUNTY CODE	111	(8) STRUCTURE NUMBER	A6043
(4) PLACE CODE	00000	(9) LOCATION	E SH 463 &CORD 266
(5) INV. ROUTE (ON/UNDER)	2 4 1 00266 0	(11) MILEPOINT	0.300 (12) BASE HIGHWAY NETWORK 0
(6) FEATURES INTERSECTED	CR 266-C- DITCH 23	(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00
		(16) LATITUDE	35.62075 (17) LONGITUDE -90.496833333333

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE, MAIN A) KIND OF MATERIAL/DESIGN: 4 - Steel continuous
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder

AGE OF SERVICE

(19) BYPASS DETOUR LENGTH	1	(30) YEAR OF AVERAGE DAILY TRAFFIC	1986
(27) YEAR BUILT	1984	(42) TYPE OF SERVICE	ON 1 UNDER 6
(28) LANES	ON 02 UNDER 02	(109) AVERAGE DAILY TRUCK TRAFFIC	1
(29) AVERAGE DAILY TRAFFIC	10		

GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	15.3	(48) LENGTH OF MAXIMUM SPAN	91 (49) STRUCTURE LENGTH 195
(47) TOTAL HORIZONTAL CLEARANCE	79.4		

CLASSIFICATION

(20) TOLL	3	(102) DIRECTION OF TRAFFIC	2
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	09	(103) TEMP STRUCTURE	
(100) STRAHNET HIGHWAY DESIGNATION	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(101) PARALLEL STRUCTURE DESIGNATION	R	(110) DESIGNATED NATIONAL NETWORK	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.	8389	sq. ft.	8149	240	0	0
1120 - Efflorescence/Rust Staining		240			240		
107 - Steel Open Girder/Beam	1- Ben.	1158	ft.	1122	36	0	0
1000 - Corrosion		36			36		
515 - Steel Protective Coating		11627	sq. ft.	11307	320	0	0
3440 - Effectiveness (Steel Protective Coatings)		320			320		
205 - Reinforced Concrete Column	1- Ben.	4	each	4			
215 - Reinforced Concrete Abutment	1- Ben.	102	ft.	102			
234 - Reinforced Concrete Pier Cap	1- Ben.	80	ft.	80			
302 - Compression Joint Seal	1- Ben.	80	ft.	80			
310 - Elastomeric Bearing	1- Ben.	24	each	24			
331 - Reinforced Concrete Bridge Railing	1- Ben.	390	ft.	390			

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Bridge Inspection Report

Pictures

Inspector:

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Bridge Inspection Report

Sketches

Inspector:

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 5/16/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Large Void under Concrete Approach Gutter on the South West corner, 7ft. under concrete and 3.5ft. deep.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Inspector:

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 5/16/2012 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Ditch Span 2

Brush and Small Trees growing in ditch under Span 2 and between A&B Bridges

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 5/16/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Compression Seals

Bent 1 Compression Seal has 16 ft. dropped down, (Both shoulders).

Bent 4 Compression Seal is ripped and torn, 30 ft. is missing.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 5/16/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Girders

Girders are rusted with some pitting.

Ends of majority of girders over Bent 1 and 4 rusted with initial loss of section, 3 ft long area typical.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 5/16/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Span 2 Girder 4 Splice 1
has one bolt loose on bottom flange.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 5/16/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Bearing Rubber Pads
are beginning to crack and Split.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 5/22/2014 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Top of Deck has a few sealable cracks.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Maintenance Needs

Date Reported: 5/22/2014 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Bottom of Deck has some cracking with light efflorescence, especially through construction joints.

Work Description:

Date Repairs Completed:

Maintenance Comments:
