

Bridge Inspection Report

03347
US 167-SEC 12 NB
over
I 530 SB LNS Log 10.00



Inspection Date:

Inspected By:

Inspection Type(s):

TABLE OF CONTENTS

	PAGE NUMBER
LOCATION MAP	3
NATIONAL BRIDGE INVENTORY	11
ELEMENTS	12
PICTURES	14
SKETCHES	17

Inspector:

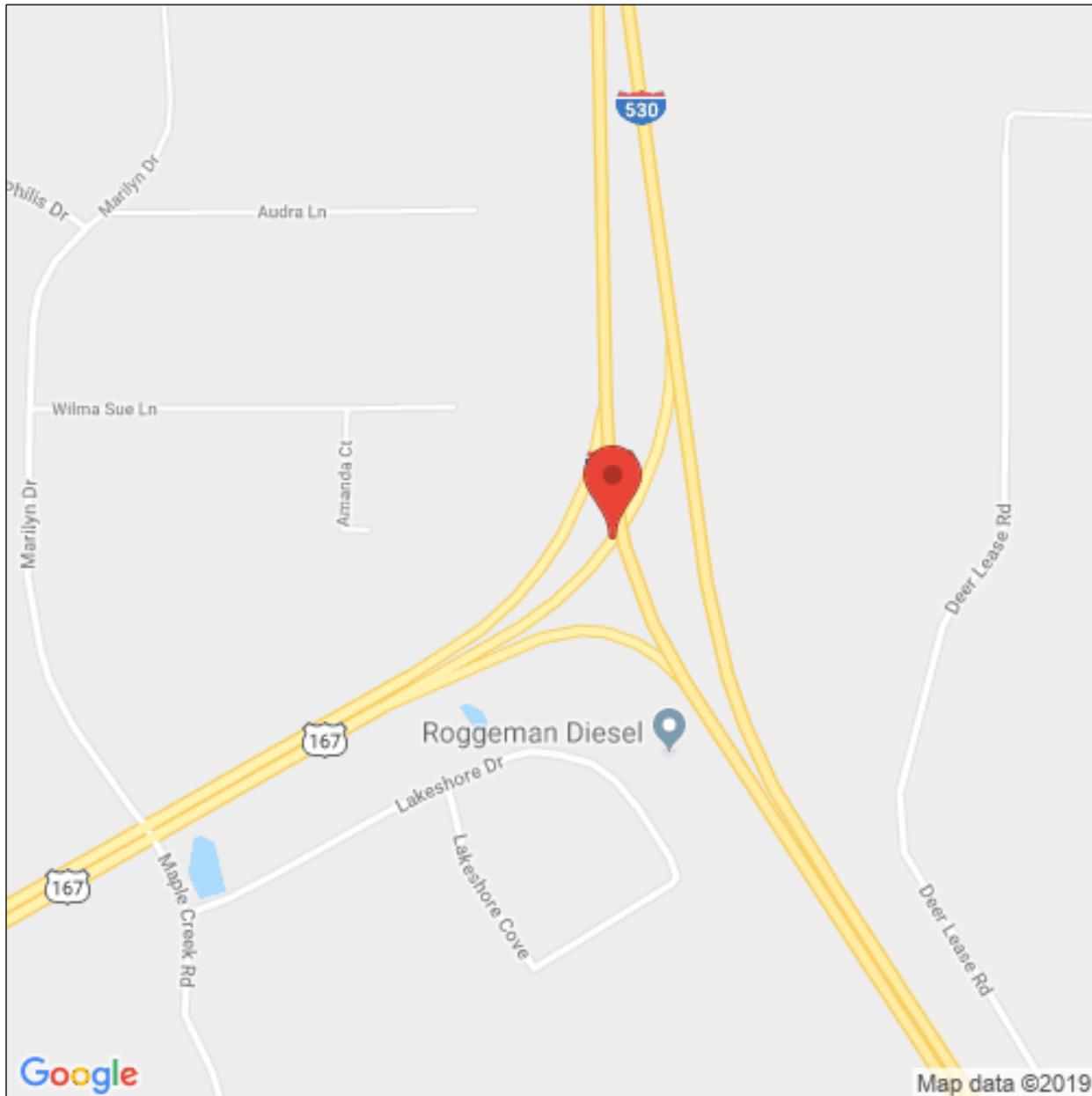
Structure Number: 03347

Inspection Date:

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Location Map



Latitude: 34.56789

Longitude: -92.26762

Inspector:

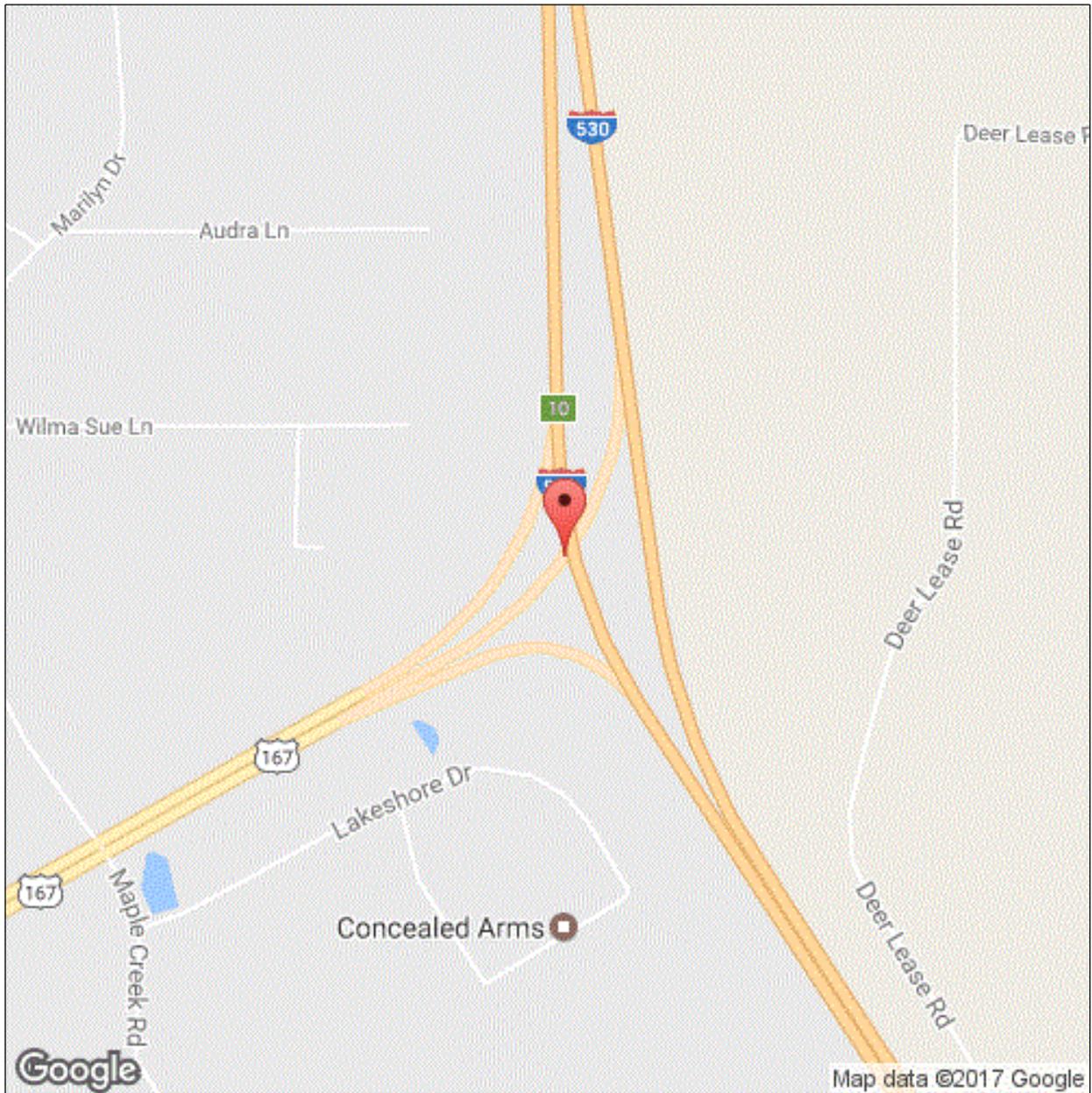
Structure Number: 03347

Inspection Date:

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Location Map



Latitude: 34.56789

Longitude: -92.26762

Inspector:

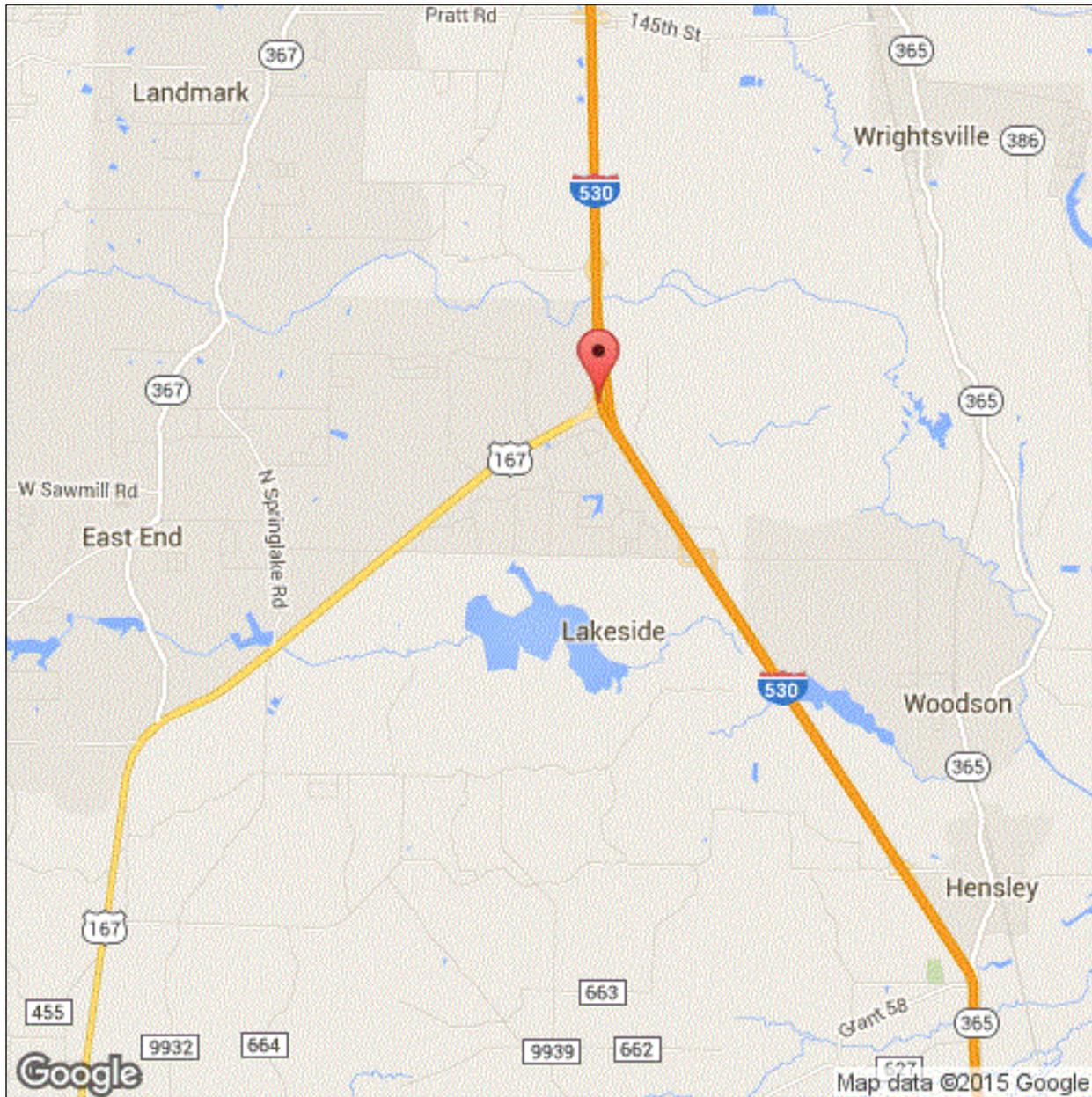
Structure Number: 03347

Inspection Date:

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Location Map



Latitude: 34.56789

Longitude: -92.26762

Inspector:

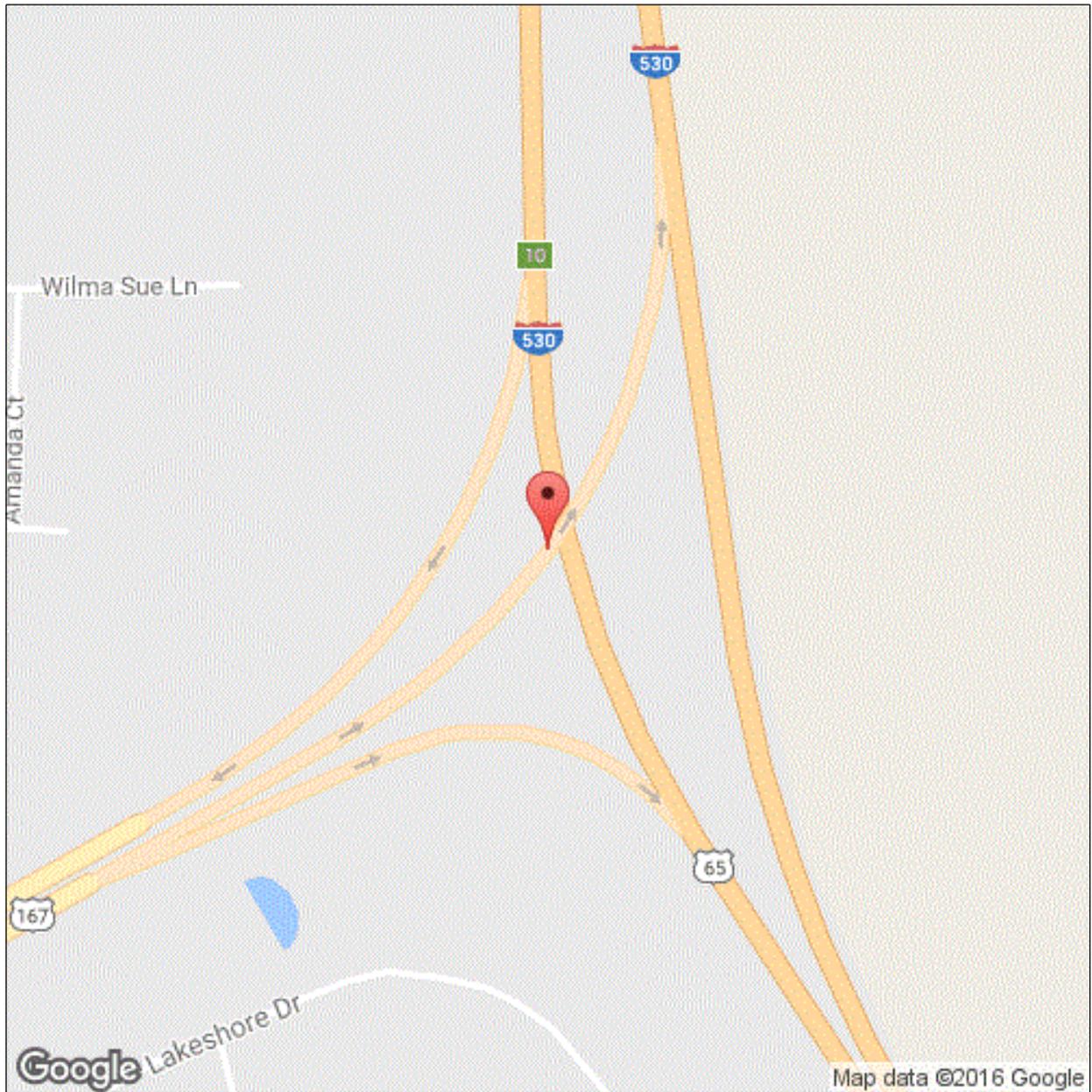
Structure Number: 03347

Inspection Date:

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Location Map



Latitude: 34.56789

Longitude: -92.26762

Inspector:

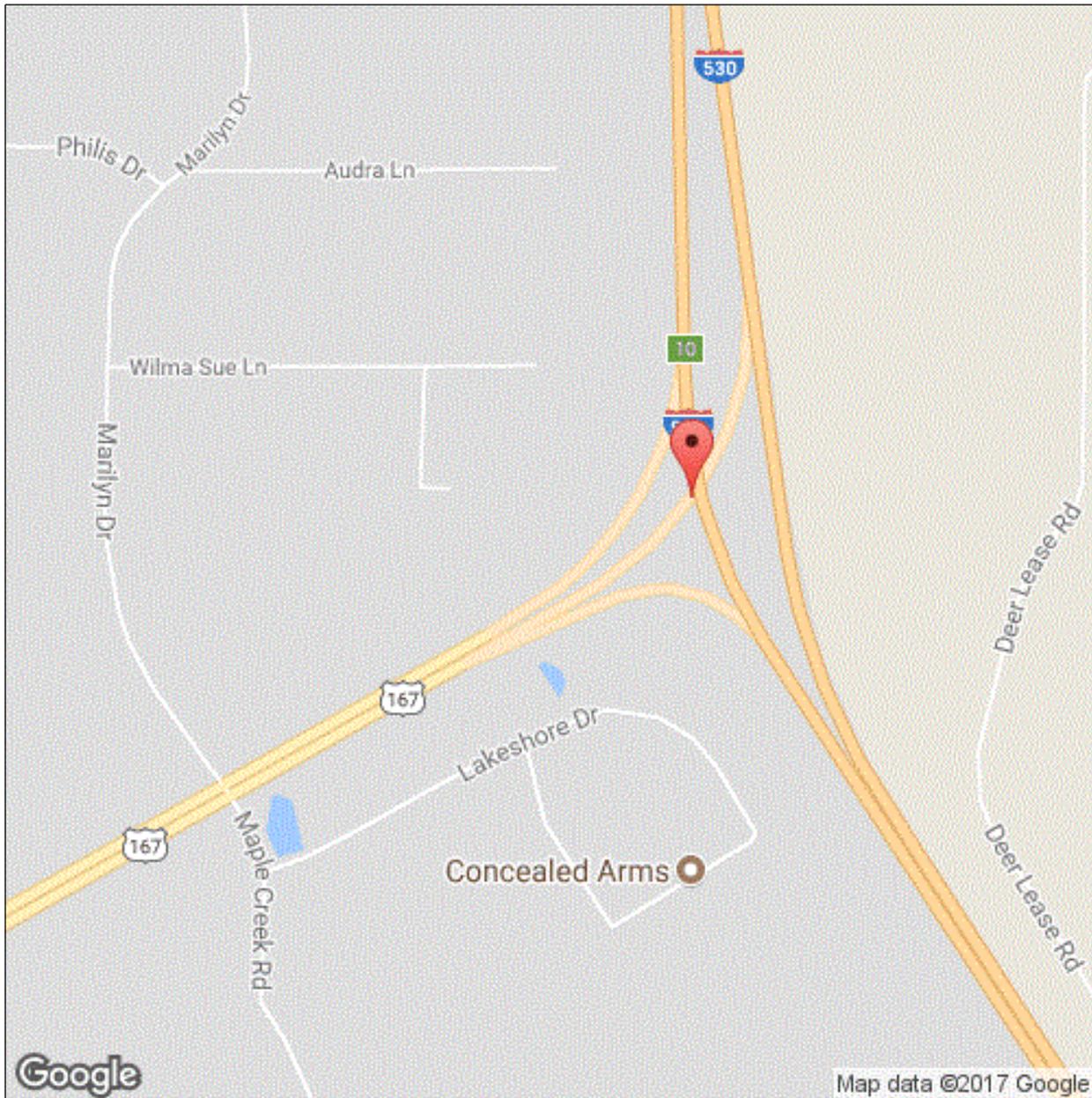
Structure Number: 03347

Inspection Date:

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Location Map



Latitude: 34.56789

Longitude: -92.26762

Inspector:

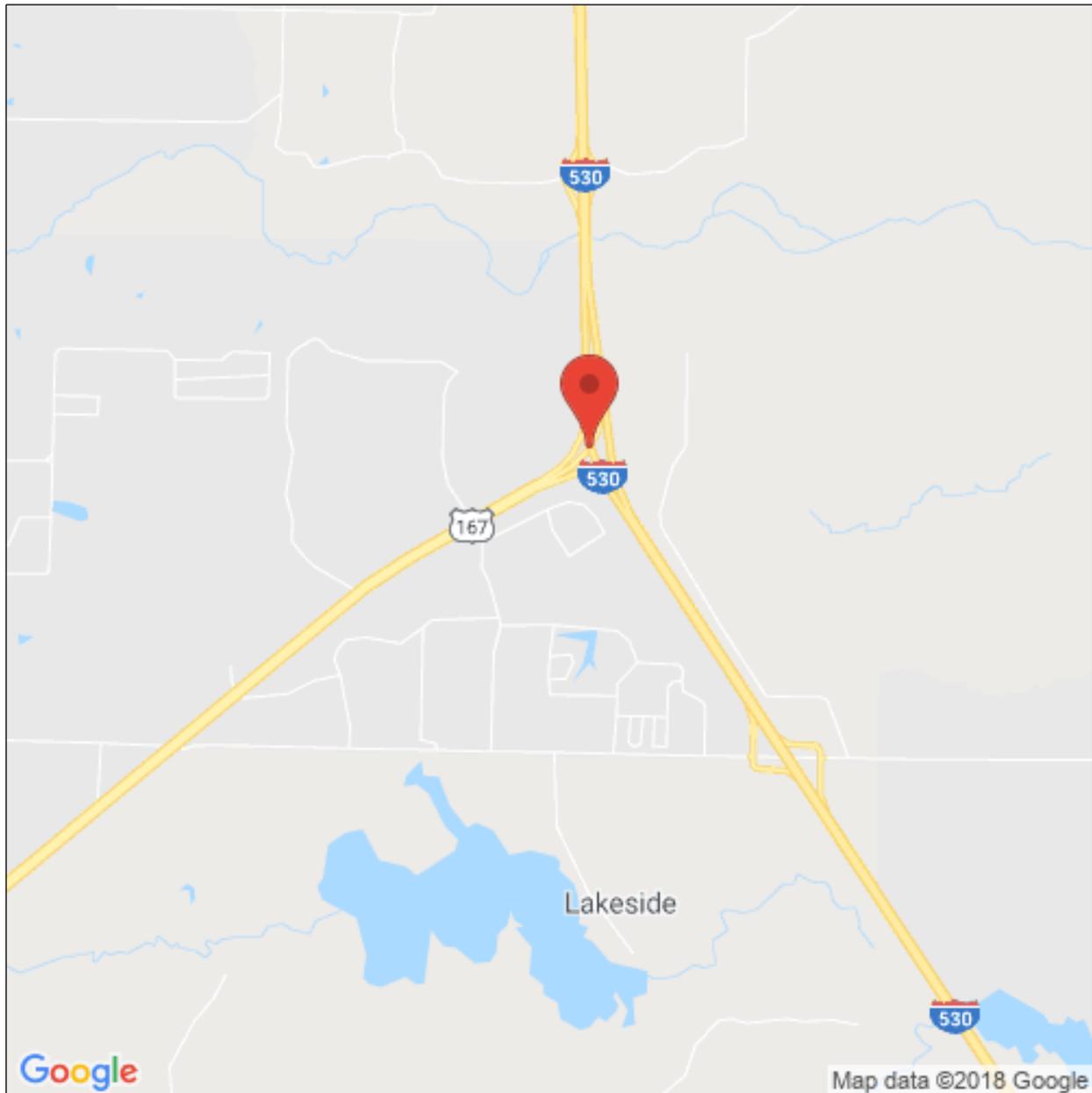
Structure Number: 03347

Inspection Date:

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Location Map



Latitude: 34.56789

Longitude: -92.26762

Inspector:

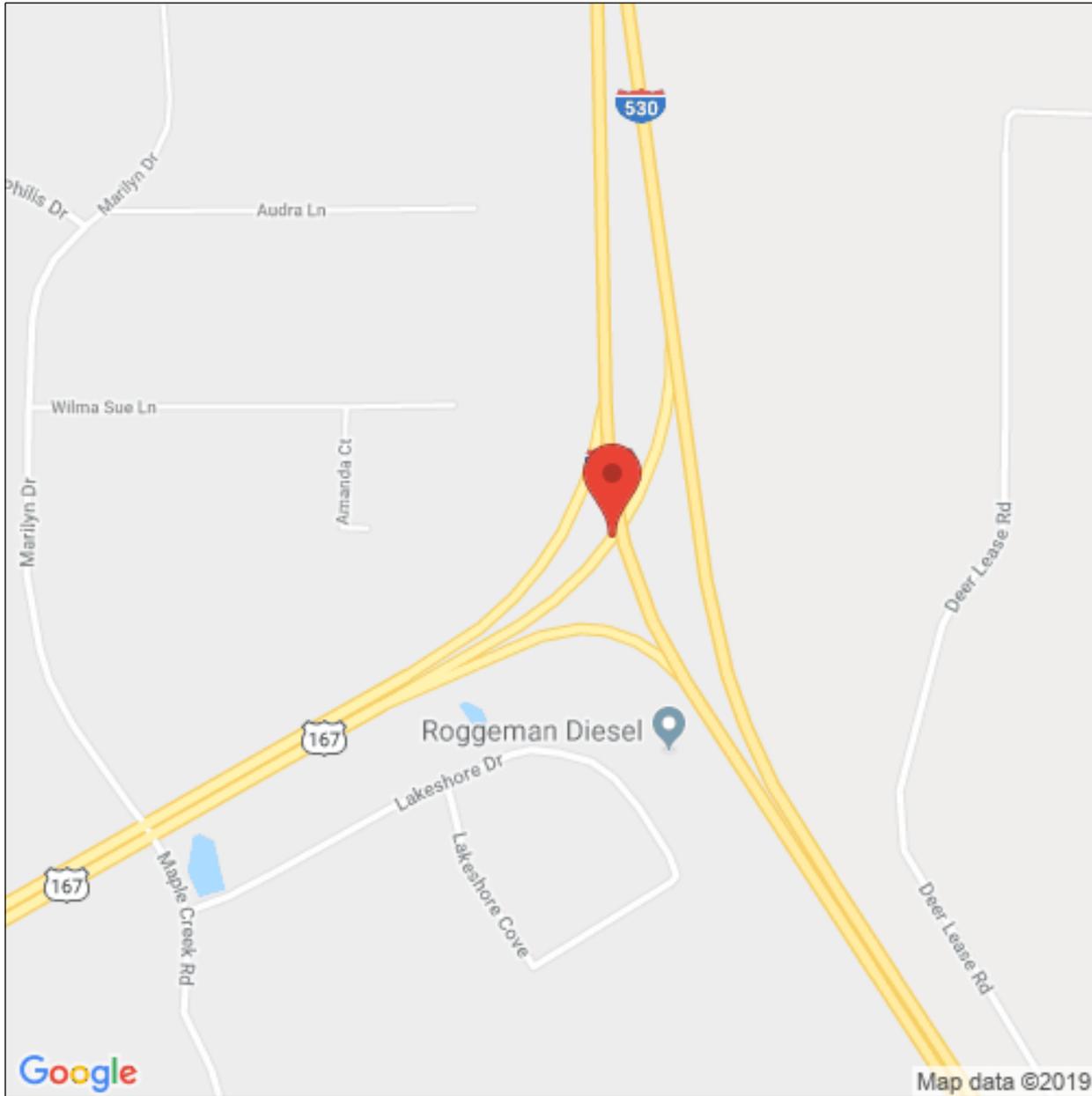
Structure Number: 03347

Inspection Date:

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Location Map



Latitude: 34.56789

Longitude: -92.26762

Inspector:

Structure Number: 03347

Inspection Date:

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Executive Summary

Logged Northbound

Inspector:

Structure Number: 03347

Inspection Date:

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	12/17/2019
(8) STRUCTURE NUMBER	03347	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 7 167 1	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	06 (3) COUNTY CODE 125	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	I 530 SB LNS Log 10.00	C. OTHER SPECIAL	Y 24 12/10/2018
(7) FACILITY CARRIED	US 167-SEC 12 NB	CONDITION	
(9) LOCATION	@ INTERCH I 530 & 167	(58) DECK	4
(11) MILEPOINT 7.189	(12) BASE HIGHWAY NETWORK 1	(59) SUPERSTRUCTURE	5 (60) SUBSTRUCTURE 6
(13A) LRS INVENTORY ROUTE	0000167120 (13B) SUBROUTE NUMBER 00	(61) CHANNEL & CHANNEL PROTECTION	N (62) CULVERT N
(16) LATITUDE 34.56789	(17) LONGITUDE -92.26762	LOAD RATING AND POSTING	
(98A) BORDER BRIDGE CODE		(31) DESIGN LOAD	5
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT	(63) METHOD USED TO DETERMINE OPERATING RATING	1
STRUCTURE TYPE AND MATERIAL		(64) OPERATING RATING	60.0
(43) STRUCTURE TYPE, MAIN		(65) METHOD USED TO DETERMINE INVENTORY RATING	1
A) KIND OF MATERIAL/DESIGN:	3 - Steel	(66) INVENTORY RATING	36.0
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder	(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	5
(45) NUMBER OF SPANS IN MAIN	3 (46) NUMBER OF APPROACH	(68) DECK GEOMETRY	9
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	2
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION	(71) WATERWAY ADEQUACY	N
	0	(72) APPROACH ROADWAY ALIGNMENT	7
AGE OF SERVICE		(36) TRAFFIC SAFETY FEATURE	
(27) YEAR BUILT	1963 (106) YEAR RECONSTRUCTED	36A) BRIDGE RAILINGS:	0
(42) TYPE OF SERVICE	ON 1 UNDER 1	36B) TRANSITIONS:	0
(28) LANES	ON 01 UNDER 02	36C) APPROACH GUARDRAIL:	0
(29) AVERAGE DAILY TRAFFIC	16000 (19) BYPASS DETOUR LENGTH	36D) APPROACH GUARDRAIL ENDS:	0
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(113) SCOUR CRITICAL BRIDGES	N
(109) AVERAGE DAILY TRUCK TRAFFIC	1	SUFFICIENCY RATING	74.0 STATUS 1
GEOMETRIC DATA		CLASSIFICATION	
(48) LENGTH OF MAX SPAN (ft.)	60 (49) STRUCTURE LENGTH (ft.)	(112) NBIS BRIDGE LENGTH	Y
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 1.6 RIGHT 1.6	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	27.9	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
(52) DECK WIDTH, OUT-TO-OUT (ft.)	33.5	(100) STRAHNET HIGHWAY DESIGNATION	0
(32) APPROACH ROADWAY WIDTH (ft.)	30.8	(101) PARALLEL STRUCTURE DESIGNATION	N
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	(102) DIRECTION OF TRAFFIC	1
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	(103) TEMP STRUCTURE	
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	38.4	(105) FEDERAL LANDS HIGHWAYS	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	(110) DESIGNATED NATIONAL NETWORK	1
(54) VERTICAL UNDER CLEARANCE (ft.)	H 15.67	(20) TOLL	3
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H 8.7	(21) MAINTENANCE RESPONSIBILITY	01
(56) MIN LATERAL UNDER CLEARANCE (ft.)	6.5	(37) HISTORICAL	5
PROPOSED IMPROVEMENTS		NAVIGATION DATA	
(75A) TYPE OF WORK PROPOSED	31 (75B) WORK DONE BY	(38) NAVIGATION CONTROL	N
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	205	(111) PIER OR ABUTMENT PROTECTION	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(39) NAV VERT CLEARANCE (ft.)	0
(95) ROADWAY IMPROVEMENT COST (\$)	235	(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
(96) TOTAL PROJECT COST	717	(40) NAV HORIZONTAL CLEARANCE (ft.)	0
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2003		
(114) FUTURE ADT	4400 (115) YEAR OF FUTURE ADT		
	2028		

Inspector:

Structure Number: 03347

Inspection Date:

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	5829	sq. ft.	0	5783	46	0
Deck, all spans state forces have patched most spalls and sealed cracks. Span 1,2,3 have small spalls. Soffit, map cracks,spalls and spalls with exposed rebar, some efflorescence present.							
1080 - Delamination/Spall/Patched Area		1254		0	1244	10	0
1090 - Exposed Rebar		36		0	0	36	0
1120 - Efflorescence/Rust Staining		19		0	19	0	0
1130 - Cracking (RC and Other)		2320		0	2320	0	0
1190 - Abrasion/Wear (PSC/RC)		2200		0	2200	0	0
107 - Steel Open Girder/Beam	1- Ben.	855	ft.	200	219	436	0
All beams have active surface rust to web and flanges with light to moderate pitting. Span 3 beam 3 has pitting up to 1/8". Worst case this bridge see photo. Span 2 beam 1 has been modified by heavy bridge maintenance due to traffic impact. See Micro station sketch							
1000 - Corrosion		655		0	219	436	0
515 - Steel Protective Coating		6310	sq. ft.	0	0	3155	3155
3440 - Effectiveness (Steel Protective Coatings)		6310		0	0	3155	3155
205 - Reinforced Concrete Column	1- Ben.	4	each	4	0	0	0
215 - Reinforced Concrete Abutment	1- Ben.	100	ft.	87	12	1	0
Spall with exposed rebar bent 4.							
1080 - Delamination/Spall/Patched Area		2		0	2	0	0
1090 - Exposed Rebar		1		0	0	1	0
1130 - Cracking (RC and Other)		10		0	10	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	80	ft.	77	3	0	0
1130 - Cracking (RC and Other)		3		0	3	0	0
303 - Assembly Joint with Seal	1- Ben.	157	ft.	0	0	157	0
All joints are leaking.							
2310 - Leakage		157		0	0	157	0
311 - Movable Bearing	1- Ben.	15	each	0	15	0	0
1000 - Corrosion		15		0	15	0	0
313 - Fixed Bearing	1- Ben.	15	each	0	7	8	0
Bearing 1,2&3 at bent 1 and bearings 1,2,3&4 at bent 4 have active corrosion and pack rust.							
1000 - Corrosion		15		0	7	8	0
330 - Metal Bridge Railing	1- Ben.	348	ft.	348	0	0	0

Inspector:

Structure Number: 03347

Inspection Date:

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Element Inspection

331 - Reinforced Concrete Bridge Railing	1- Ben.	348	ft.	301	47	0	0
Cracks in both concrete rails.							

Inspector:

Inspection Date:

Structure Number: 03347

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Pictures

PHOTO 1
Description

PHOTO 1
Description

Inspector:

Inspection Date:

Structure Number: 03347

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Pictures

PHOTO 2

Description

PHOTO 2

Description

Inspector:

Inspection Date:

Structure Number: 03347

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Pictures

PHOTO 3

Description

Inspector:

Inspection Date:

Structure Number: 03347

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Sketches

Inspector:

Structure Number: 03347

Inspection Date:

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Maintenance Needs

Date Reported: 12/14/2010 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Slope pavement at both abutments are Eroded along the edge. Erosion has undermined slope pavement for 24 feet along edge, 2 feet down and 4 feet under the concrete at abutment 2.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Assigned Pulaski 2 11-15-16

Stage: Assigned

Stage: Assigned



PHOTO 1 Description Left side span 1 erosion next to slope paving.

PHOTO 2 Description Span 1 left side, erosion under slope paving.

Inspector:

Structure Number: 03347

Inspection Date:

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 3 Description Span 3, right side, erosion undermining slope paving.

Stage: Assigned



PHOTO 5 Description Slope paving at bent 1 left side has eroded.

Stage: Assigned

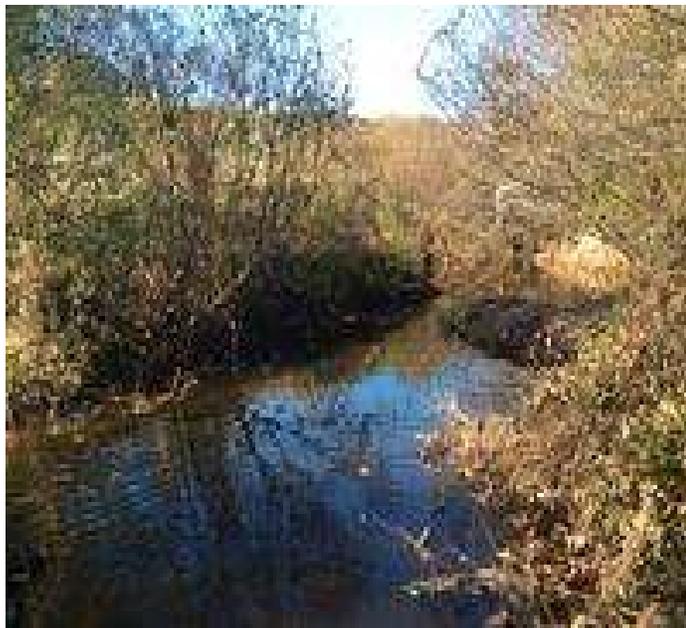


PHOTO 4 Description Span 1 left side, erosion under slope paving.

Inspector:

Structure Number: 03347

Inspection Date:

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Maintenance Needs

Date Reported: 12/14/2010 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Active surface rust on web and upper and lower flanges on all beams all spans. Paint system failing. See photos.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Span 2 beam 2 damaged from traffic impact

Stage: Monitor



PHOTO 2 Description Span 3 beam 3 pitting up to 1/8"

Inspector:

Structure Number: 03347

Inspection Date:

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 3 Description Span 1, beam 1, active corrosion.

Stage: Monitor



PHOTO 4 Description Span 3, beam 3, flaking rust and pitting up to 1/8"

Stage: Monitor



PHOTO 5 Description Span 3 beam 3 has active corrosion and pitting up to 1/8".

Stage: Monitor



PHOTO 6 Description Span 1 girder 4 bottom flange has active corrosion and moderate pitting, common at most beams.

Inspector:

Structure Number: 03347

Inspection Date:

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 7 Description Span 1, beam 1, active corrosion.

Inspector:

Structure Number: 03347

Inspection Date:

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Maintenance Needs

Date Reported: 12/11/2017

Priority: C - Important

Work Code:

Deficiency Description:

Right side approach guardrail damaged due to traffic impact.

Work Description:

Approach rail has been replaced. See photo.

Date Repairs Completed: 12/17/2019

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Right side approach guardrail damaged due to traffic impact.

Stage: Open



PHOTO 2 Description Right side approach guardrail damaged due to traffic impact.

Inspector:

Structure Number: 03347

Inspection Date:

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 3 Description Right approach rail has been replaced.

Inspector:

Structure Number: 03347

Inspection Date:

Facility Carried: US 167-SEC 12 NB

Bridge Inspection Report

Maintenance Needs

Date Reported: 12/17/2019

Priority: C - Important

Work Code:

Deficiency Description:

South end of bridge asphalt approach road has settled. See photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open

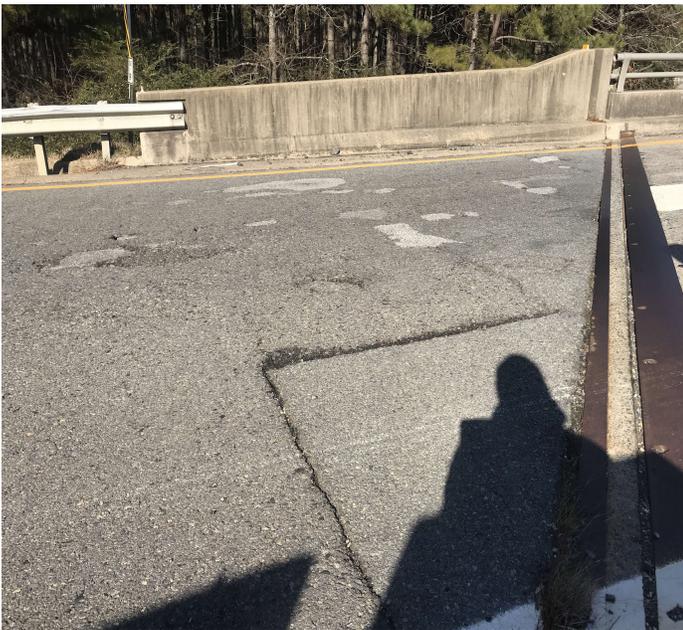


PHOTO 1 Description Northbound approach asphalt has settled.