

Bridge Inspection Report

B3617
I-40EB/Se51/239.52
over
Drainage Ditch



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

Inspection Date:

Structure Number: B3617

Facility Carried: I-40EB/Se51/239.52

Bridge Inspection Report

Location Map



Latitude: 35.03051

Longitude: -90.81021

Inspector:

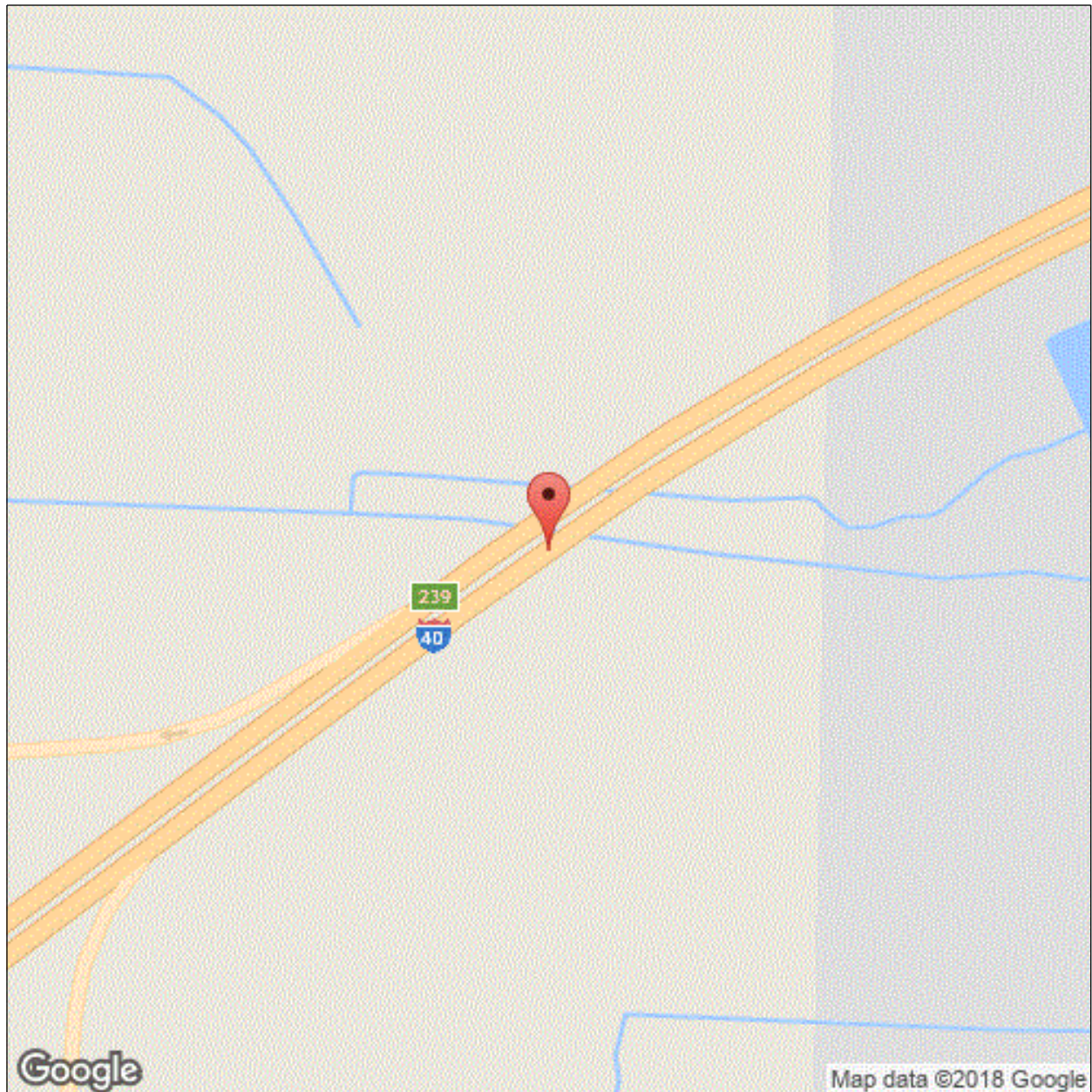
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Bridge Inspection Report

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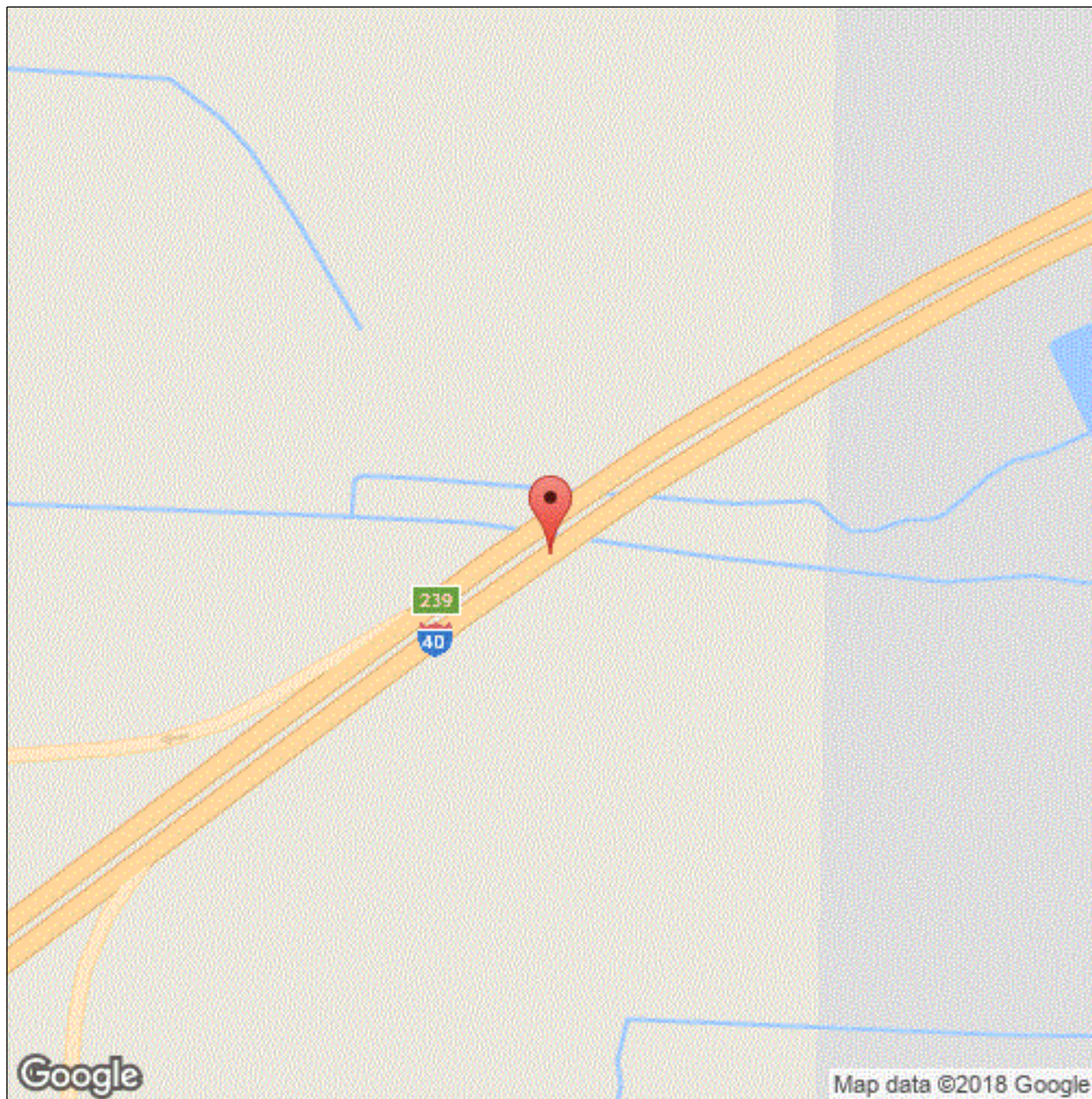
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Location Map



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Bridge Inspection Report

Executive Summary

Inspector:

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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	B3617	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 1 1 40 2	(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-40EB/Se51/239.52		
(9) LOCATION	0.48 Miles West Of Sh 1		
(11) MILEPOINT 239.520	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000040510 (13B) SUBROUTE NUMBER -1		
(16) LATITUDE	35.03051 (17) LONGITUDE -90.81021		
(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 6
B) TYPE OF DESIGN/CONSTR: 01 - Slab		(61) CHANNEL & CHANNEL PROTECTION	6 (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	3	
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION	0	
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1965 (106) YEAR RECONSTRUCTED	2015	
(42) TYPE OF SERVICE	ON 1 UNDER 5		
(28) LANES	ON 02 UNDER 00		
(29) AVERAGE DAILY TRAFFIC	39000 (19) BYPASS DETOUR LENGTH	3	
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014		
(109) AVERAGE DAILY TRUCK TRAFFIC	51		
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	30 (49) STRUCTURE LENGTH (ft.)	90	
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0 RIGHT 0		
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	39.7		
(52) DECK WIDTH, OUT-TO-OUT (ft.)	42.3		
(32) APPROACH ROADWAY WIDTH (ft.)	38.1		
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	45	
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	99.99	
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	40.7		
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99		
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0		
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9		
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0		
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY		
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0		
(94) BRIDGE IMPROVEMENT COST (\$)	0		
(95) ROADWAY IMPROVEMENT COST (\$)	0		
(96) TOTAL PROJECT COST	0		
(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(114) FUTURE ADT	22628 (115) YEAR OF FUTURE ADT	2027	
		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.	2520	0	1260	0
	All spans have several open longitudinal and transverse cracks with areas of moderate efflorescence and areas of rust stains in soffit.						
1120 - Efflorescence/Rust Staining		1260		0	0	1260	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.	127	0	16	0
	Bent #3 cap ahead face lower corner between piles #5,6 is spalled with exposed rebar with 5% section loss and delamination crack extending for 8'. Bent #3 cap back face between piles #4,5 has crack and delamination on lower corner. Top of caps on ends at bents #2,3 are scaling. Abutment #1 slope is eroded undermining cap and exposing pile #2.						
1080 - Delamination/Spall/Patched Area		12		0	0	12	0
1090 - Exposed Rebar		4		0	0	4	0
301 - Pourable Joint Seal	1- Ben.	272	ft.	252	0	0	20
	Bent #2,3 pourable joint has a few feet each bent with loss of adhesion 20 feet total.						
2320 - Seal Adhesion		20		0	0	0	20
321 - Reinforced Concrete Approach Slab	1- Ben.	1680	sq. ft.	1330	350	0	0
	Both approach slabs have cracks.						
1130 - Cracking (RC and Other)		350		0	350	0	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	180	ft.	180	0	0	0

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Bridge Inspection Report

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

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 4/11/2012 12:00:00 AM

Priority: C - Important

Work Code: N/A

Deficiency Description:

Abutment #1 slope is eroded undermining cap and exposing pile #2.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Inspector:

Structure Number: B3617

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 4/11/2012 12:00:00 AM

Priority: C - Important

Work Code: N/A

Deficiency Description:

Bent #3 cap ahead face lower corner between piles #5,6 is spalled with exposed rebar with 5% section loss and delamination crack extending for 8'.

Bent #3 cap back face between piles #4,5 has crack and delamination on lower corner.

Top of caps on ends at bents #2,3 are scaling.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description

Inspector:

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Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 3 Description

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Bridge Inspection Report

Maintenance Needs

Date Reported: 4/11/2012 12:00:00 AM

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Trees and vegetation is growing under and beside bridge.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

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Maintenance Needs

Date Reported: 04/09/2018

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Bent #2,3 pourable joint has a few feet each bent with loss of adhesion 20 feet total.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1	Description	Bent #2,3 pourable joint has a few feet each bent with loss of adhesion 20 feet total.
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