

Bridge Inspection Report

06555
Us-49/Sec-10/L12.9
over
Big Creek



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

Structure Number: 06555

Inspection Date:

Facility Carried: Us-49/Sec-10/L12.9

Bridge Inspection Report

Location Map



Latitude: 34.55565

Longitude: -90.84620

Inspector:

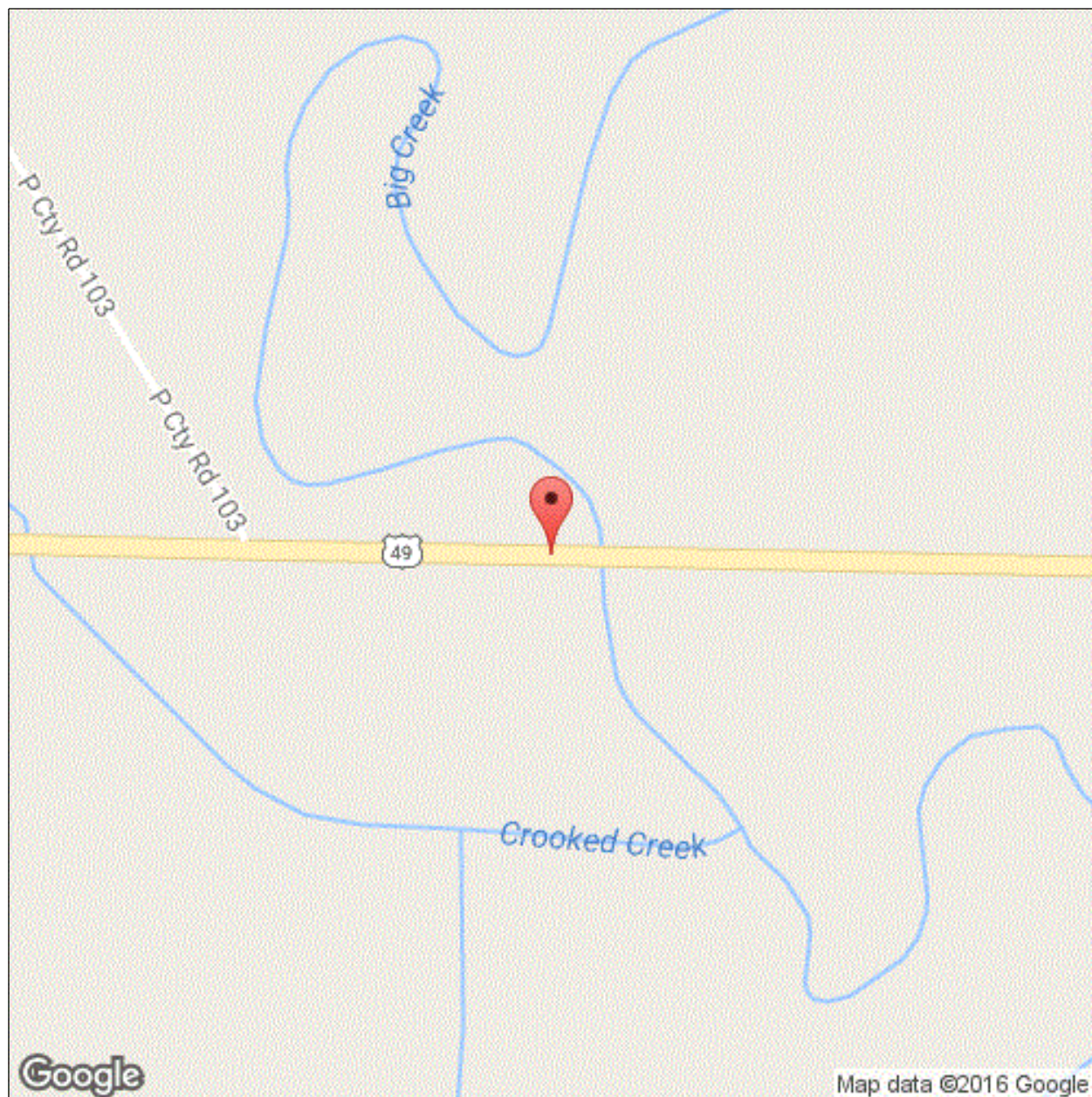
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Bridge Inspection Report

Location Map



Latitude: 34.55565

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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	05/10/2018
(8) STRUCTURE NUMBER	06555	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 49 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	01 (3) COUNTY CODE 107	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Big Creek	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	Us-49/Sec-10/L12.9		
(9) LOCATION	0.50 Mi E Of Jct Sh 316		
(11) MILEPOINT 12.900	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000049100 (13B) SUBROUTE NUMBER -1		
(16) LATITUDE 34.55565	(17) LONGITUDE -90.84620		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	7
A) KIND OF MATERIAL/DESIGN:	4 - Steel continuous	(59) SUPERSTRUCTURE	8 (60) SUBSTRUCTURE 7
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder	(61) CHANNEL & CHANNEL PROTECTION	8 (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	5 (46) NUMBER OF APPROACH	0	
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE	1	
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION	1	
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1996 (106) YEAR RECONSTRUCTED	2006	
(42) TYPE OF SERVICE	ON 1 UNDER 5		
(28) LANES	ON 05 UNDER 00		
(29) AVERAGE DAILY TRAFFIC	5300 (19) BYPASS DETOUR LENGTH	16	
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014		
(109) AVERAGE DAILY TRUCK TRAFFIC	16		
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	60 (49) STRUCTURE LENGTH (ft.)	222	
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0 RIGHT 0		
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	75.1		
(52) DECK WIDTH, OUT-TO-OUT (ft.)	78		
(32) APPROACH ROADWAY WIDTH (ft.)	59.1		
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	0	
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	99.99	
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	75.1		
(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	6050 (115) YEAR OF FUTURE ADT	2028	
		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
12 - Reinforced Concrete Deck	1- Ben.	17160	sq. ft.	11837	5323	0	0
	Soffit overhangs have hairline transverse cracks with light efflorescence spaced 3' apart. Deck each lane has transverse and longitudinal cracks. Transverse cracks are spaced 5', and longitudinal cracks are spaced 10'. Deck gutters are full of dirt and debris.						
1120 - Efflorescence/Rust Staining		296		0	296	0	0
1130 - Cracking (RC and Other)		5027		0	5027	0	0
107 - Steel Open Girder/Beam	1- Ben.	2640	ft.	2640	0	0	0
515 - Steel Protective Coating		16262	sq. ft.	16262	0	0	0
215 - Reinforced Concrete Abutment	1- Ben.	194	ft.	160	34	0	0
	Both abutment back walls have vertical cracks with light efflorescence. Abutment #1 left end of cap, and abutment #2 right end of cap are undermined last 10' up to 6".						
1120 - Efflorescence/Rust Staining		14		0	14	0	0
6000 - Scour		20		0	20	0	0
225 - Steel Pile	1- Ben.	36	each	3	33	0	0
	Columns have light surface rust full length with 25% bare steel.						
1000 - Corrosion		33		0	33	0	0
515 - Steel Protective Coating		1832	sq. ft.	13	1361	0	458
3440 - Effectiveness (Steel Protective Coatings)		1819		0	1361	0	458
234 - Reinforced Concrete Pier Cap	1- Ben.	230	ft.	230	0	0	0
301 - Pourable Joint Seal	1- Ben.	312	ft.	156	156	0	0
	Joint seals are weathered and cracked with a few small holes in them.						
2330 - Seal Damage		6		0	6	0	0
2340 - Seal Cracking		150		0	150	0	0
310 - Elastomeric Bearing	1- Ben.	60	each	56	4	0	0
	Bent #4 girder #1,2,3, and bent #1 girder #1 right side all anchor nuts loose.						
1020 - Connection		4		0	4	0	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	444	ft.	444	0	0	0

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Bridge Inspection Report

Pictures

PHOTO 1

Description WIDENED PLANS

PHOTO 1

Description

Inspector:

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Facility Carried: Us-49/Sec-10/L12.9

Bridge Inspection Report

Pictures

PHOTO 2

Description

PHOTO 2

Description WIDENED PLANS

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Bridge Inspection Report

Pictures

PHOTO 3

Description

PHOTO 4

Description

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Bridge Inspection Report

Sketches

Inspector:

Structure Number: 06555

Inspection Date:

Facility Carried: Us-49/Sec-10/L12.9

Bridge Inspection Report

Maintenance Needs

Date Reported: 6/10/2014 12:00:00 AM

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Abutment #1 left end of cap, and abutment #2 right end of cap are undermined last 10' up to 6".

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Abutment #2 right end last 10' undermined 6"

Stage: Monitor



PHOTO 2 Description Abutment #1 left side last 12' undermined up to 6"

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 05/10/2018

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Both abutments have brush and small trees growing beside and under edge of bridge

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Typical vegetation.

Inspector:

Structure Number: 06555

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 06/06/2016

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Deck has open hairline transverse and longitudinal cracks each span.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Typical longitudinal deck crack spaced 10'+-

Stage: Open



PHOTO 2 Description Typical transverse deck crack spaced 5'+-

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Bridge Inspection Report

Maintenance Needs

Stage: Open



PHOTO 3 Description Span #1 right outside lane large transverse deck crack

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Bridge Inspection Report

Maintenance Needs

Date Reported: 05/10/2018

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Gutters are full of dirt and debris.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Gutters are full of dirt and debris.

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 05/10/2018

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Bent #4 girder #1,2,3, and bent #1 girder #1 right side all anchor nuts loose.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Bent #4 girder #1,2,3 all anchor nuts loose.

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Bridge Inspection Report

Maintenance Needs

Date Reported: 05/10/2018

Priority: C - Important

Work Code: N/A

Deficiency Description:

Abutment #1 right terminal end has collision damage on approach rail.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Abutment #1 right terminal end has collision damage on approach rail.

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 05/10/2018

Priority: C - Important

Work Code: N/A

Deficiency Description:

Abutment #1 approach roadway has settled 1/2" increasing impact loading on bridge.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Abutment #1 approach roadway has settled 1/2" increasing impact loading on bridge.