

# Bridge Inspection Report

**06554**  
**Us49/Sec-10/L12.59**  
**over**  
**Crooked Creek**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

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Inspector:

Structure Number: 06554

Inspection Date:

Facility Carried: Us49/Sec-10/L12.59

Bridge Inspection Report

Location Map



Latitude: 34.55573

Longitude: -90.85151

Inspector:

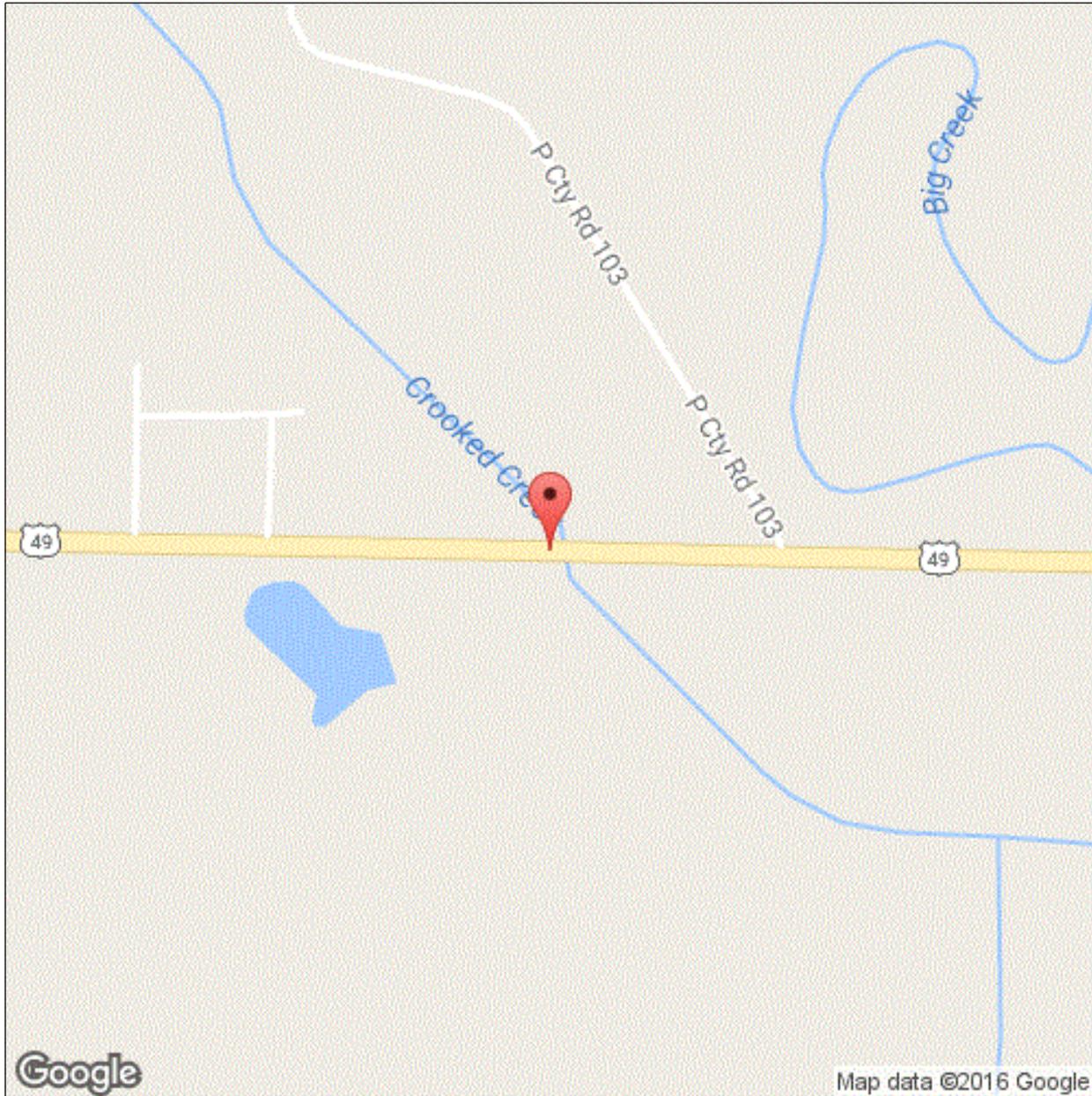
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### Bridge Inspection Report

### Location Map



Latitude: 34.55573

Longitude: -90.85151

**Inspector:**

**Inspection Date:**

**Structure Number:** 06554

**Facility Carried:** Us49/Sec-10/L12.59

**Bridge Inspection Report**

**Executive Summary**

Inspector:

Structure Number: 06554

Inspection Date:

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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	06554	(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
(4) PLACE CODE	00000	A. FRACTURE CRITICAL DETAIL	N
(6) FEATURES INTERSECTED	Crooked Creek	B. UNDERWATER INSPECTION	N
(7) FACILITY CARRIED	Us49/Sec-10/L12.59	C. OTHER SPECIAL	N
(9) LOCATION	0.30 Mi East Jct Sh 316	CONDITION	
(11) MILEPOINT	12.590	(58) DECK	7
(12) BASE HIGHWAY NETWORK	1	(59) SUPERSTRUCTURE	7
(13A) LRS INVENTORY ROUTE	0000049100	(60) SUBSTRUCTURE	7
(13B) SUBROUTE NUMBER	-1	(61) CHANNEL & CHANNEL PROTECTION	8
(16) LATITUDE	34.55573	(62) CULVERT	N
(17) LONGITUDE	-90.85151	LOAD RATING AND POSTING	
(98A) BORDER BRIDGE CODE		(31) DESIGN LOAD	4
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT	(63) METHOD USED TO DETERMINE OPERATING RATING	1

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
(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	1
(108B) DECK MEMBRANE	0
(108C) DECK PROTECTION	1

AGE OF SERVICE	
(27) YEAR BUILT	1996
(106) YEAR RECONSTRUCTED	2006
(42) TYPE OF SERVICE	ON 1 UNDER 5
(28) LANES	ON 02 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	
(48) LENGTH OF MAX SPAN (ft.)	40
(49) STRUCTURE LENGTH (ft.)	112
(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.)	78.0
(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	
(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

(90) INSPECTION DATE	05/10/2018
(91) DESIGNATED INSPECTION FREQUENCY	24
(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
A. FRACTURE CRITICAL DETAIL	N
B. UNDERWATER INSPECTION	N
C. OTHER SPECIAL	N

CONDITION	
(58) DECK	7
(59) SUPERSTRUCTURE	7
(60) SUBSTRUCTURE	7
(61) CHANNEL & CHANNEL PROTECTION	8
(62) CULVERT	N

LOAD RATING AND POSTING	
(31) DESIGN LOAD	4
(63) METHOD USED TO DETERMINE OPERATING RATING	1
(64) OPERATING RATING	49.1
(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(66) INVENTORY RATING	29.0
(70) BRIDGE POSTING	5
(41) STRUCTURE OPEN/POSTED/CLOSED	A

APPRAISAL	
(67) STRUCTURAL EVALUATION	6
(68) DECK GEOMETRY	9
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(71) WATERWAY ADEQUACY	8
(72) APPROACH ROADWAY ALIGNMENT	7
(36) TRAFFIC SAFETY FEATURE	
36A) BRIDGE RAILINGS:	1
36B) TRANSITIONS:	1
36C) APPROACH GUARDRAIL:	1
36D) APPROACH GUARDRAIL ENDS:	1
(113) SCOUR CRITICAL BRIDGES	5
SUFFICIENCY RATING	88.3
STATUS	0

CLASSIFICATION	
(112) NBIS BRIDGE LENGTH	Y
(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
(100) STRAHNET HIGHWAY DESIGNATION	0
(101) PARALLEL STRUCTURE DESIGNATION	N
(102) DIRECTION OF TRAFFIC	2
(103) TEMP STRUCTURE	
(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
<b>12 - Reinforced Concrete Deck</b>	1- Ben.	8598	sq. ft.	8448	150	0	0
Soffit overhangs have transverse cracks with light efflorescence spaced three feet apart. Deck has transverse and longitudinal hairline cracks all spans.							
1120 - Efflorescence/Rust Staining		150		0	150	0	0
<b>107 - Steel Open Girder/Beam</b>	1- Ben.	1320	ft.	1320	0	0	0
515 - Steel Protective Coating		7154	sq. ft.	7154	0	0	0
<b>215 - Reinforced Concrete Abutment</b>	1- Ben.	199	ft.	164	35	0	0
Both abutment back walls have vertical cracks with light efflorescence. Abutment #2 cap right side is undermined 10' for a depth of up to 6".							
1120 - Efflorescence/Rust Staining		25		0	25	0	0
6000 - Scour		10		0	10	0	0
<b>225 - Steel Pile</b>	1- Ben.	33	each	0	33	0	0
Columns have small areas of spotty rust.							
515 - Steel Protective Coating		1222	sq. ft.	1192	30	0	0
3440 - Effectiveness (Steel Protective Coatings)		30		0	30	0	0
<b>234 - Reinforced Concrete Pier Cap</b>	1- Ben.	194	ft.	194	0	0	0
<b>301 - Pourable Joint Seal</b>	1- Ben.	156	ft.	0	156	0	0
Joints are weathered and cracked.							
2340 - Seal Cracking		156		0	156	0	0
<b>310 - Elastomeric Bearing</b>	1- Ben.	48	each	42	0	6	0
Abutment #1 bearings 1,2,3,12 and abutment #2 bearings #1&2 the sole plates are corroded with laminations.							
1000 - Corrosion		6		0	0	6	0
515 - Steel Protective Coating		108	sq. ft.	0	72	0	36
<b>331 - Reinforced Concrete Bridge Railing</b>	1- Ben.	224	ft.	224	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

PHOTO 2

Description

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**Bridge Inspection Report**

**Sketches**

Inspector:

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**Bridge Inspection Report**

**Maintenance Needs**

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

**Priority:** D - Routine

**Work Code:** N/A

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**Deficiency Description:**

Abutment #2 cap right side is undermined 10' for a depth of up to 6".

**Work Description:**

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**Date Repairs Completed:**

**Maintenance Comments:**

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**Stage: Monitor**



PHOTO 1 Description Abutment #2 cap right end.

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#### Maintenance Needs

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

Priority: D - Routine

Work Code: N/A

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#### Deficiency Description:

Small trees and bushes are growing beside and under bridge.

#### Work Description:

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#### Date Repairs Completed:

#### Maintenance Comments:

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#### Stage: Monitor



PHOTO 1 Description Typical vegetation.