

# Bridge Inspection Report

**02715**

**SH 5-8 Log 2.12**

**over**

**HURRICANE CREEK**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

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Inspector:

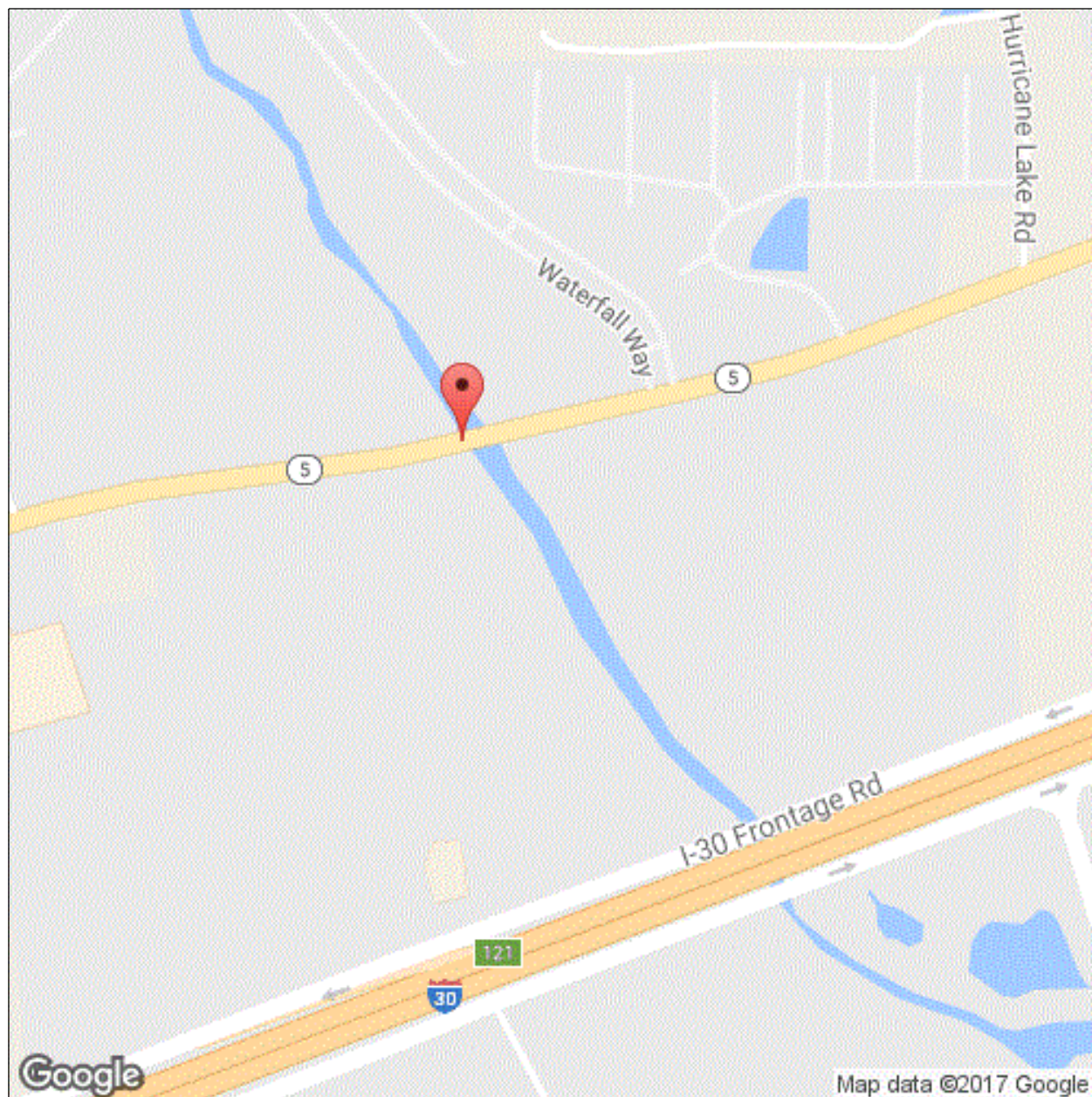
Structure Number: 02715

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# Bridge Inspection Report

## Location Map



Latitude: 34.61263

Longitude: -92.52616



Inspector:

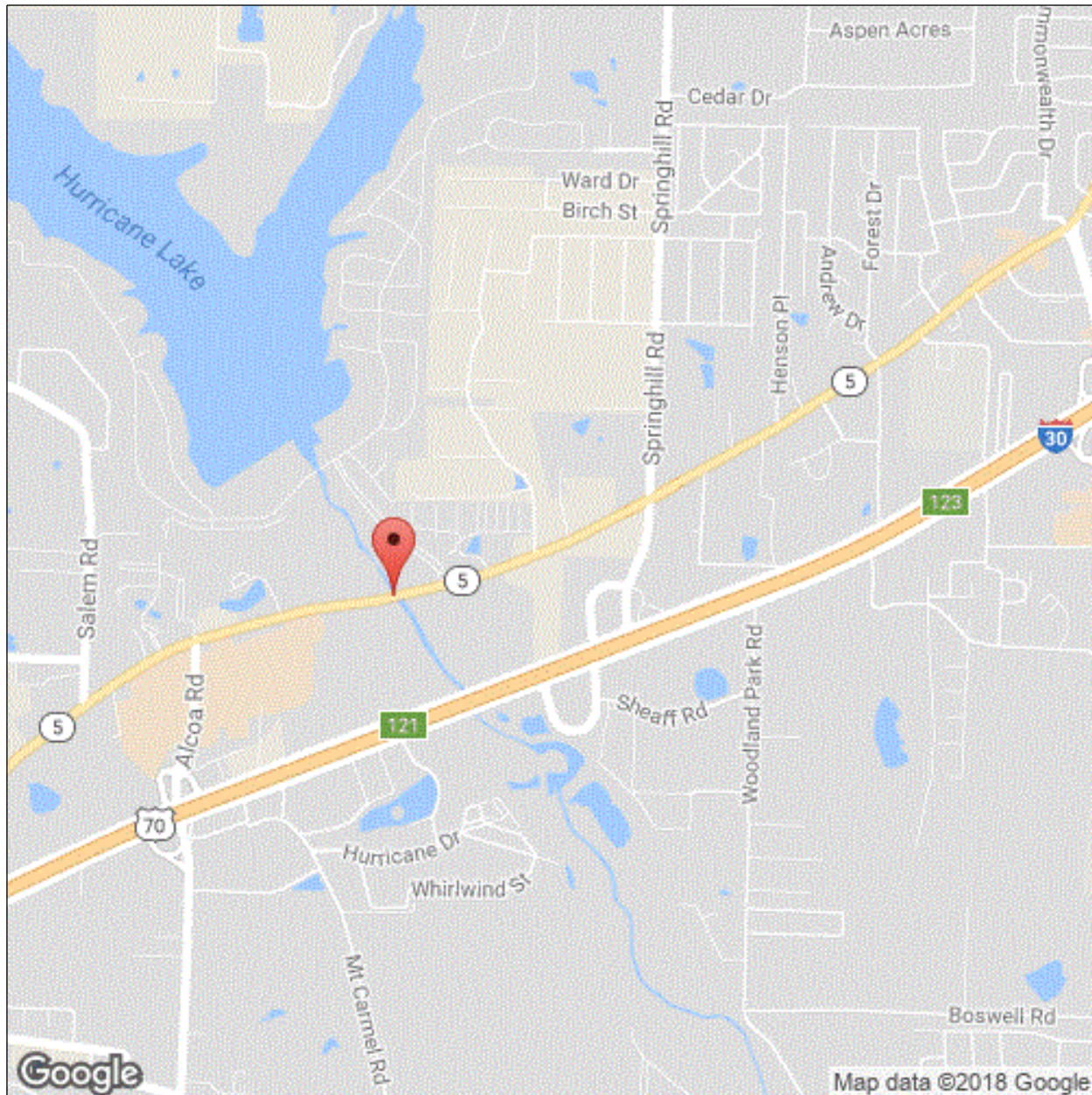
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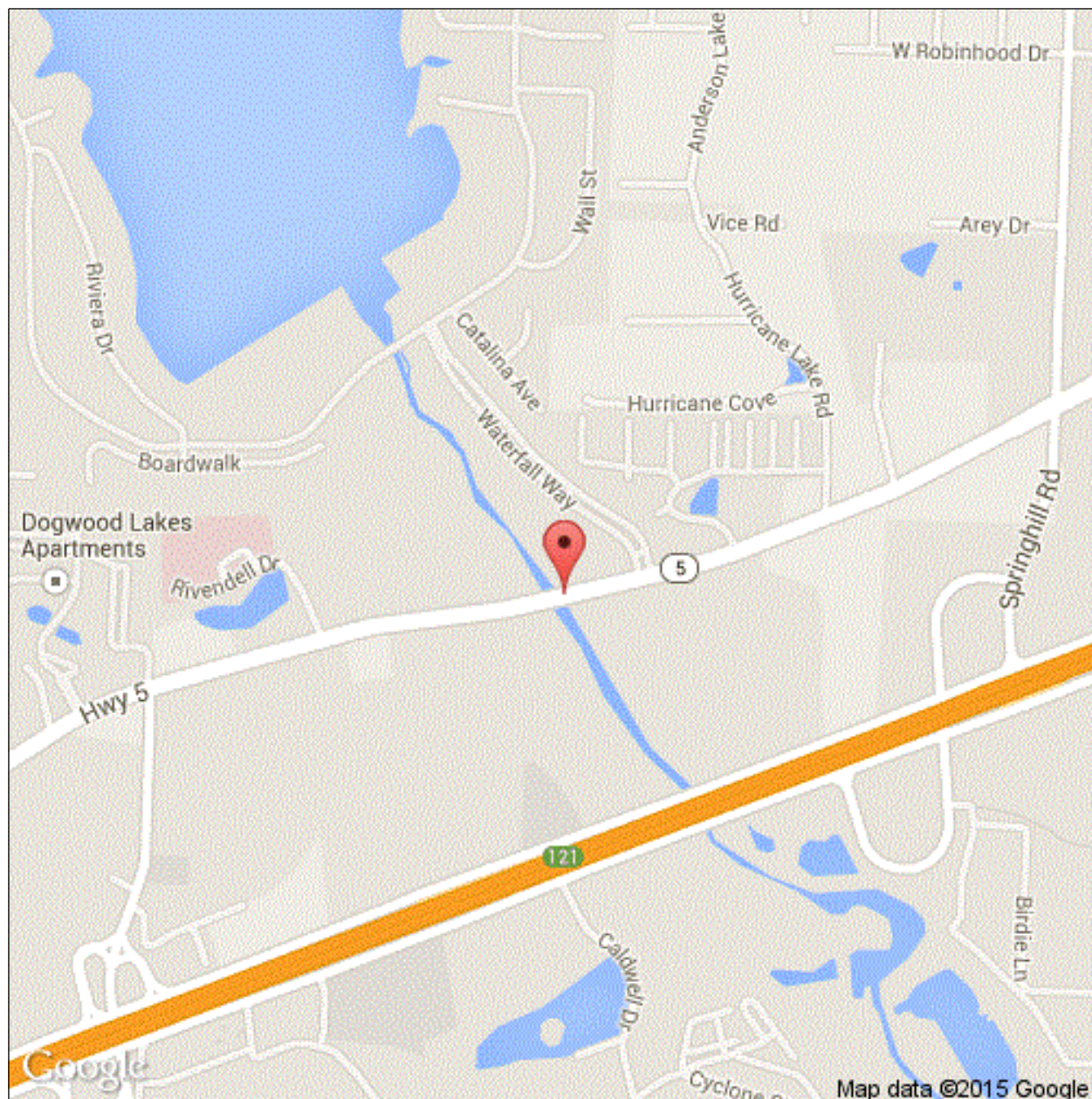
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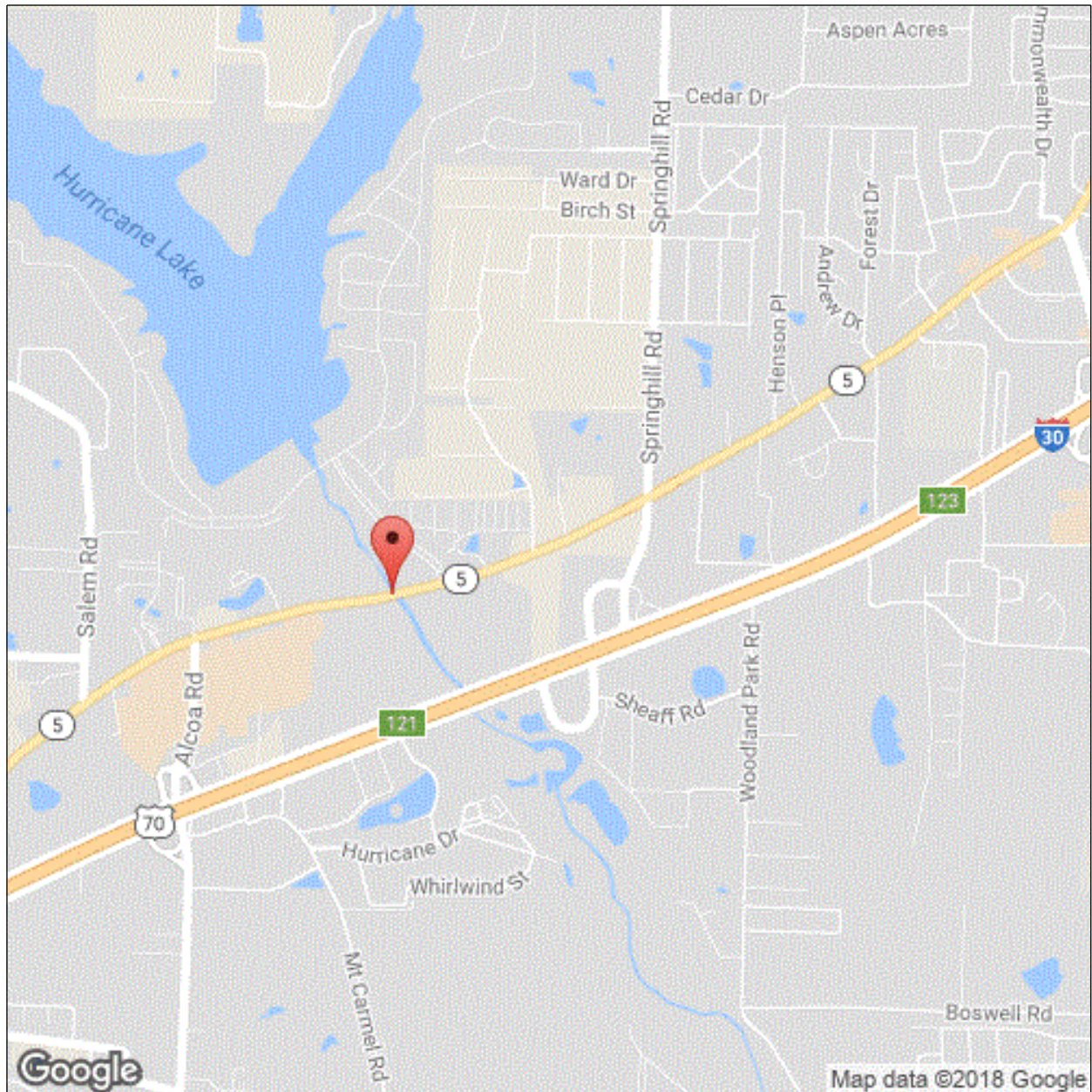
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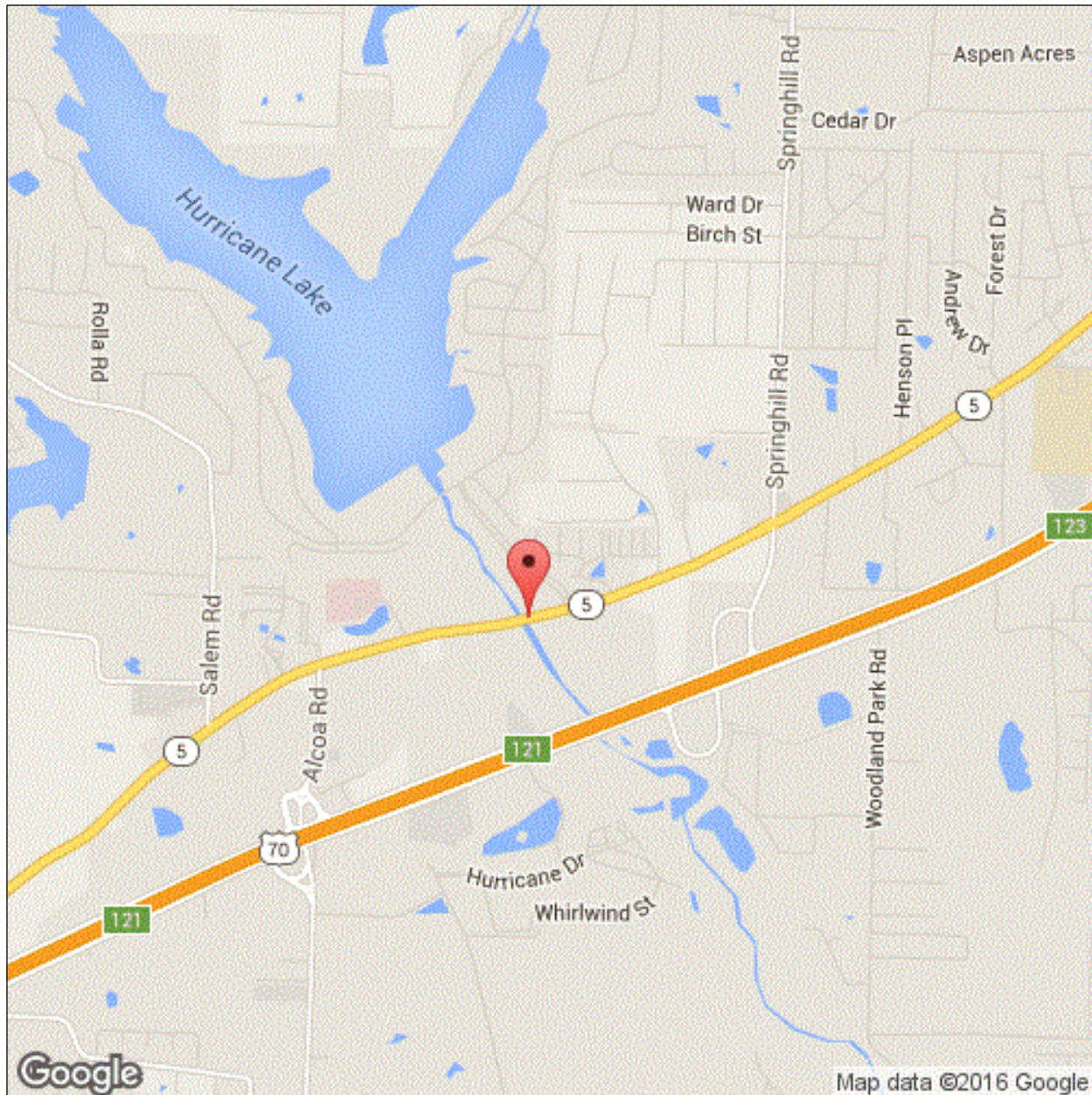
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## Bridge Inspection Report

### Executive Summary

Logged looking East.

See AHTD drawing #7770 for layout.

Micro station sketch for section loss and repairs. Scour sketch

Recurring special for Item 59 rating of 4

Need ladder.

3/20/2018 - KRM & RLS - Recurring special is no longer needed, Item 59 has been raised to 5 due to maintenance items being repaired.



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## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	03/29/2017
(8) STRUCTURE NUMBER	02715	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 5 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	06 (3) COUNTY CODE 125	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	04980	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	HURRICANE CREEK	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 5-8 Log 2.12		
(9) LOCATION	5.0 MI NE OF BENTON		
(11) MILEPOINT 2.120	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.61263	(17) LONGITUDE -92.52616		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	5
A) KIND OF MATERIAL/DESIGN: 4 - Steel continuous		(59) SUPERSTRUCTURE 5	(60) SUBSTRUCTURE 5
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(61) CHANNEL & CHANNEL PROTECTION 5	(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 4	(46) NUMBER OF APPROACH 0		
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 1		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1950	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	2
(42) TYPE OF SERVICE ON 1	UNDER 5	(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02	UNDER 00	(64) OPERATING RATING	50.0
(29) AVERAGE DAILY TRAFFIC 11000	(19) BYPASS DETOUR LENGTH 1	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	30.0
(109) AVERAGE DAILY TRUCK TRAFFIC 5		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 31	(49) STRUCTURE LENGTH (ft.) 124	(67) STRUCTURAL EVALUATION	5
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 1.5	RIGHT 1.5	(68) DECK GEOMETRY	2
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	27.9	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	31.5	(71) WATERWAY ADEQUACY	6
(32) APPROACH ROADWAY WIDTH (ft.)	27.9	(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 0	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99	36A) BRIDGE RAILINGS:	0
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	27.9	36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	36D) APPROACH GUARDRAIL ENDS:	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(113) SCOUR CRITICAL BRIDGES	8
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	SUFFICIENCY RATING	60.4 STATUS 2
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED 31	(75B) WORK DONE BY 1	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	152.0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	16
(95) ROADWAY IMPROVEMENT COST (\$)	125	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	407	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2003	(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 31500	(115) YEAR OF FUTURE ADT 2034	(103) TEMP STRUCTURE	
		(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	0
		(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.)	0

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## 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.	3844	sq. ft.	0	1922	1922	0
	Span 1 soffit has 8 sf of spalls with exposed rebar. Span 2 soffit has 24 sf of spalls with exposed rebar. Span 3 soffit has 31 sf of spalls with exposed rebar. Span 4 soffit has 29 sf of spalls with exposed rebar. All spans have large unsealed cracks up to 1/8" wide on 1-2 foot centers and minor abrasion. See photos.						
1090 - Exposed Rebar		92				92	
1130 - Cracking (RC and Other)		1830				1830	
1190 - Abrasion/Wear (PSC/RC)		1922			1922		
107 - Steel Open Girder/Beam	1- Ben.	630	ft.	352	220	58	0
	3/20/2018 - KRM & RLS - All girders have been repaired by T- Splices in the bottom flanges or windows in the top of web at end of girders. Bent 5 girder 4 has section loss in the bottom flange in approximately 6" from bearing. Top flanges in all spans have corrosion the worst being at mid span. Sketches of repairs can be view in the asset.  Top flange to beams have corrosion at diaphragms. Beam ends have been repainted. Span 2 beam 5 bent 3, right side, bottom flange 3/16 pitting.  Bent 1 girders 2 and 4 have splice, girders 1,3 and 5 have cover plate on top of bottom flange.  Bent 2 backside girders 2 and 3 have t splice 5 has section loss top web Bent 2 ahead side girders 3 and 4 have t splices and 1,2 and 5 have windows at top haunch.						
1000 - Corrosion		278			220	58	
515 - Steel Protective Coating		3509	sq. ft.	640	2869	0	0
3440 - Effectiveness (Steel Protective Coatings)		2869			2869		
205 - Reinforced Concrete Column	1- Ben.	4	each	0	4	0	0
1190 - Abrasion/Wear (PSC/RC)		4			4		
210 - Reinforced Concrete Pier Wall	1- Ben.	78	ft.	0	66	12	0
	Bent 3 back spall with exposed rebar under beam 5. Bent 4 back spall with exposed rebar under beam 2. All pier walls have minor abrasion at water line. bent 3 bottom right side, ahead and back side, heavy abrasion (spalled)						
1090 - Exposed Rebar		2			2		
1190 - Abrasion/Wear (PSC/RC)		76			64	12	



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## Element Inspection

215 - Reinforced Concrete Abutment	1- Ben.	100	ft.	51	0	49	0
Bent 1 spall with exposed rebar under beam 1. Horizontal and vertical cracks in both abutment. Bent 5 has severe abrasion with exposed rebar along bottom of abutment. See photos. Abutment 5 has very large horizontal crack, 3/4 wide x up to 9" deep.							
1090 - Exposed Rebar		19				19	
1130 - Cracking (RC and Other)		30				30	
302 - Compression Joint Seal	1- Ben.	31	ft.	0	0	0	31
Joint seal at bent 3 is missing. See photo							
2330 - Seal Damage		31					31
303 - Assembly Joint with Seal	1- Ben.	62	ft.	0	0	62	0
Joints are leaking.							
2310 - Leakage		62				62	
311 - Movable Bearing	1- Ben.	20	each	0	0	20	0
All movable bearings have severe corrosion.							
1000 - Corrosion		20				20	
313 - Fixed Bearing	1- Ben.	10	each	0	10		
330 - Metal Bridge Railing	1- Ben.	252	ft.	0	252	0	0
Rails are rusted.							
1000 - Corrosion		252			252		

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## Bridge Inspection Report

### Pictures

PHOTO 1

Description

PHOTO 1

Description



Inspector:

Inspection Date:

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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: 03/23/2016

Priority: C - Important

Work Code:

---

Deficiency Description:

Scour has exposed the edges of the footing at Bent 3.

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

Assigned Saline 06621 10-1-15

---

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### Bridge Inspection Report

#### Maintenance Needs

Date Reported: 03/23/2016

Priority: C - Important

Work Code: Repair

---

Deficiency Description:

Bent 3 the joint seal is missing. Photo

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Open



PHOTO 1      Description      Joint seal at bent 3 is missing.

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### Maintenance Needs

Date Reported: 03/20/2018

Priority: D - Routine

Work Code:

---

Deficiency Description:

Large tree wedged at bent 3 and 4. (Photo attached)

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

Assigned Saline 06621 5/15/18

---

Stage: Open



PHOTO 1      Description      Log between bents 3 and 4.



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### Maintenance Needs

Date Reported: 03/20/2018

Priority: C - Important

Work Code:

---

#### Deficiency Description:

Bent 5 girder 4 section loss up to knife edge on bottom flange at bearing area girder. (Photo's attached)

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Open



PHOTO 1      Description      Bent 5 girder 4 section loss up to knife edge on bottom flange at bearing area right side girder.

Stage: Open



PHOTO 2      Description      Bent 5 girder 4 section loss up to knife edge on bottom flange at bearing area left side of girder.