

Bridge Inspection Report

A0487

**State Highway 22
over
Hagwood Creek-Logan Co.**



Inspection Date:

Inspected By:

Inspection Type(s):

TABLE OF CONTENTS

	PAGE NUMBER
LOCATION MAP	3
NATIONAL BRIDGE INVENTORY	6
ELEMENTS	7
PICTURES	8
SKETCHES	10

Inspector:

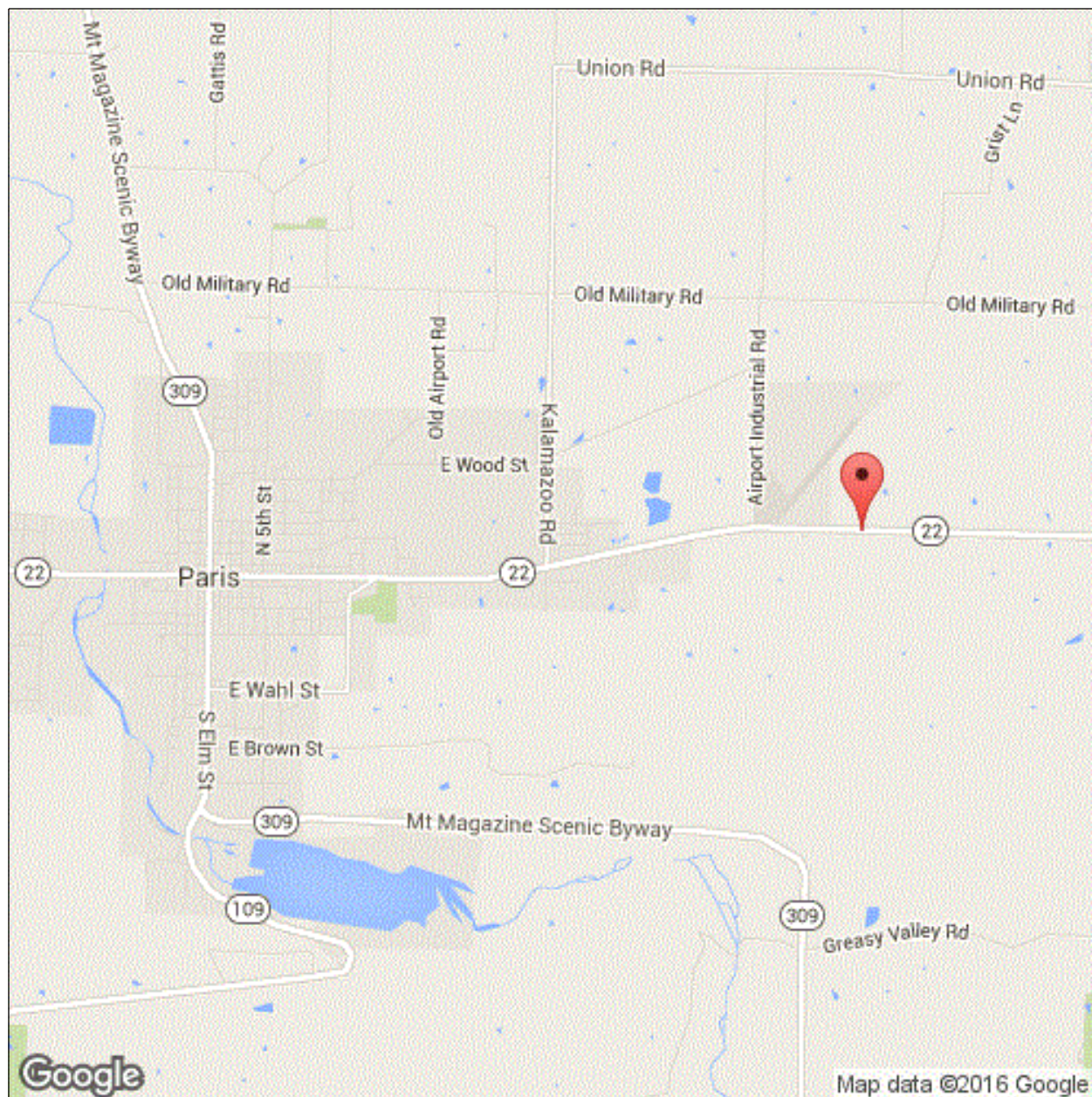
Structure Number: A0487

Inspection Date:

Facility Carried: State Highway 22

Bridge Inspection Report

Location Map



Latitude: 35.29502

Longitude: -93.67838

Inspector:

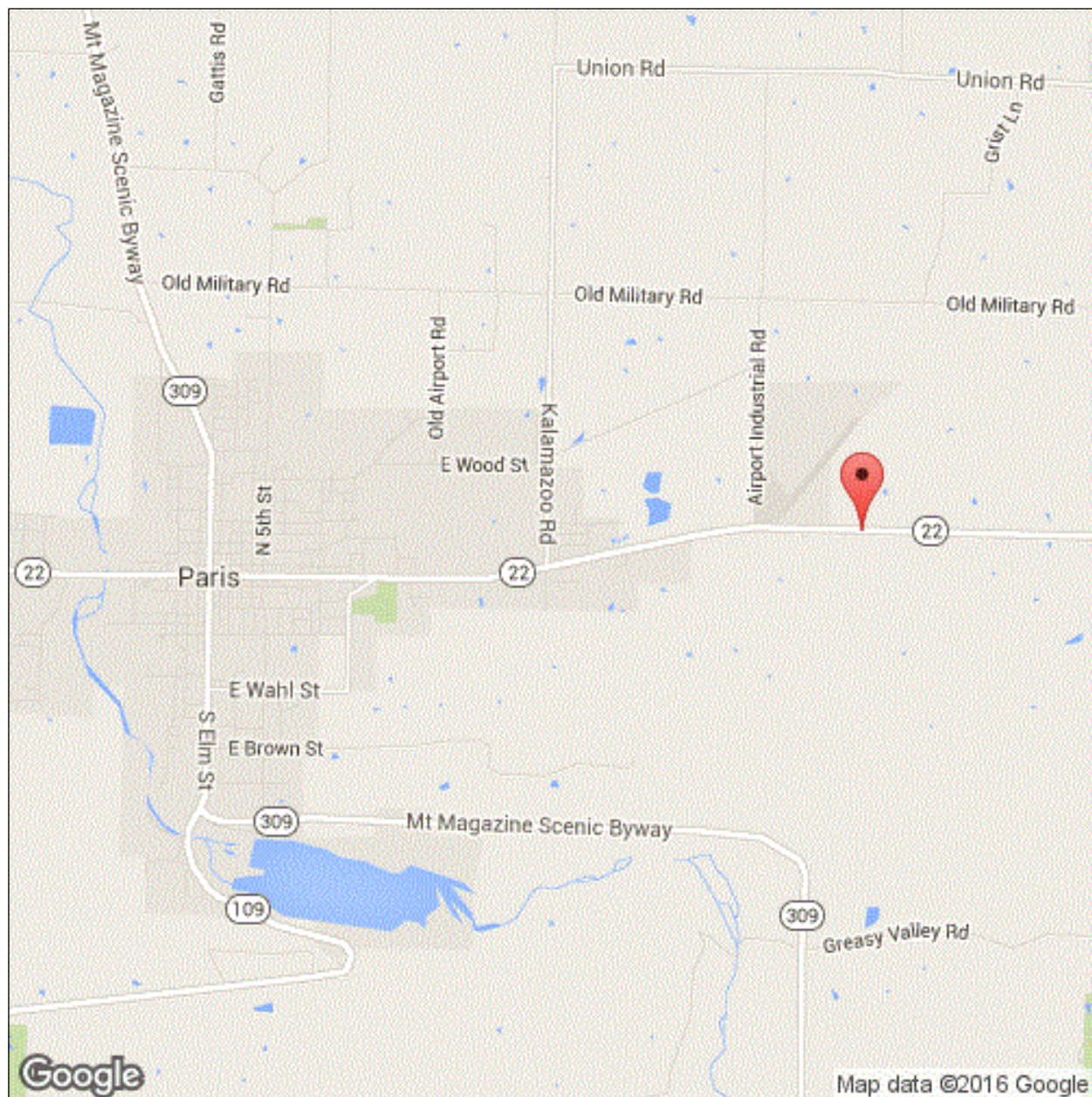
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Location Map



Latitude: 35.29502

Longitude: -93.67838

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Executive Summary

Inspector:

Structure Number: A0487

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	06/11/2018
(8) STRUCTURE NUMBER	A0487	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 22 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	04 (3) COUNTY CODE 083	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Hagwood Creek-Logan Co.	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	State Highway 22		
(9) LOCATION	3 MI EAST JCT 309 @ PARIS		
(11) MILEPOINT 13.777	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000022030 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.29502	(17) LONGITUDE -93.67838		
(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: 04 - Tee Beam		(61) CHANNEL & CHANNEL PROTECTION	7 (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 1	(46) NUMBER OF APPROACH 0		
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 6		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1928	(106) YEAR RECONSTRUCTED 1963	(31) DESIGN LOAD	4
(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	48.0
(29) AVERAGE DAILY TRAFFIC 5715	(19) BYPASS DETOUR LENGTH 6	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	29.0
(109) AVERAGE DAILY TRUCK TRAFFIC 1		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 30	(49) STRUCTURE LENGTH (ft.) 30	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0.7 RIGHT 0.7		(68) DECK GEOMETRY	5
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 40.4		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 42.5		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 40.0		(72) APPROACH ROADWAY ALIGNMENT	7
(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.) 42.0		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	88.2 STATUS 0
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED 35	(75B) WORK DONE BY 1	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 30		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	06
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	57	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE	1994	(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 7114	(115) YEAR OF FUTURE ADT 2028	(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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Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
16 - Reinforced Concrete Top Flange	1- Ben.	1275	sq. ft.	1245	23	7	0
	-Asphalt driving surface of the deck has map cracking with asphalt patches in the Rt wheel path of the Eastbound lanes. -One softball size area of honeycomb under the Lt gutter with exposed reinforcing steel located approx. 8" from Bent 1. Exposed reinforcing steel has initial section loss.						
1080 - Delamination/Spall/Patched Area		2			1	1	
1090 - Exposed Rebar		2				2	
1120 - Efflorescence/Rust Staining		19			15	4	
1130 - Cracking (RC and Other)		7			7		
510 - Wearing Surfaces		1212	sq. ft.	881	76	255	0
3210 - Delamination/Spall/Patched Area/Pothole (Wearing Surfaces)		76			76		
3220 - Crack (Wearing Surface)		255				255	
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	235	ft.	139	96	0	0
	-Vertical hairline flexure cracking at approx. 12" to 16" centers. -Number 9 wire used during the construction process is exposed adjacent to the West abutment.						
1080 - Delamination/Spall/Patched Area		12			12		
1130 - Cracking (RC and Other)		84			84		
205 - Reinforced Concrete Column	1- Ben.	4	each	4			
	-No apparent noteworthy problems at this inspection.						
234 - Reinforced Concrete Pier Cap	1- Ben.	141	ft.	127	11	3	0
	-Concrete cracking with a shallow softball size spall with no exposed reinforcing steel in the bearing area of Girder 3, Bent 2. -Vertical and horizontal cracking in the abutments.						
1080 - Delamination/Spall/Patched Area		4			2	2	
1090 - Exposed Rebar		1				1	
1130 - Cracking (RC and Other)		9			9		
330 - Metal Bridge Railing	1- Ben.	60	ft.	0	60	0	0
	-The paint system on the metal rails and posts is failing with rust showing through the paint system. -The rail is sound at this inspection. -The rail posts on the right side of the structure have been replaced in the past. These posts do not have a paint system and are still covered with the mill scale from the factory.						
1000 - Corrosion		60			60		
515 - Steel Protective Coating		373	sq. ft.	0	0	277	96
3440 - Effectiveness (Steel Protective Coatings)		373				277	96

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Bridge Inspection Report

Pictures

PHOTO 1

Description

PHOTO 2

Description

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Bridge Inspection Report

Pictures

PHOTO 2

Description

Inspector:

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Bridge Inspection Report

Sketches

Inspector:

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Maintenance Needs

Date Reported: 6/27/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Deck

Honeycomb with exposed reinforcing steel is visible from the undersurface of the Left overhang. Exposed reinforcing steel has active corrosion with initial section loss.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1	Description	One softball size area of honeycomb under the Lt gutter with exposed reinforcing steel located approx. 8' from Bent 1. Exposed reinforcing steel has initial section loss.
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Maintenance Needs

Date Reported: 05/18/2016

Priority: D - Routine

Work Code:

Deficiency Description:

Bridge Rail

The paint system on the metal rails and posts is failing with rust showing through the paint system. The right bridge rail has mill scale from the factory.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description The paint system on the metal rails and posts is failing with rust showing through the paint system.

Stage: Monitor



PHOTO 2 Description Mill scale on the Rt rail posts.