

Bridge Inspection Report

A0488
SH 22-Logan Co.
over
East Fork Hagwood Creek



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

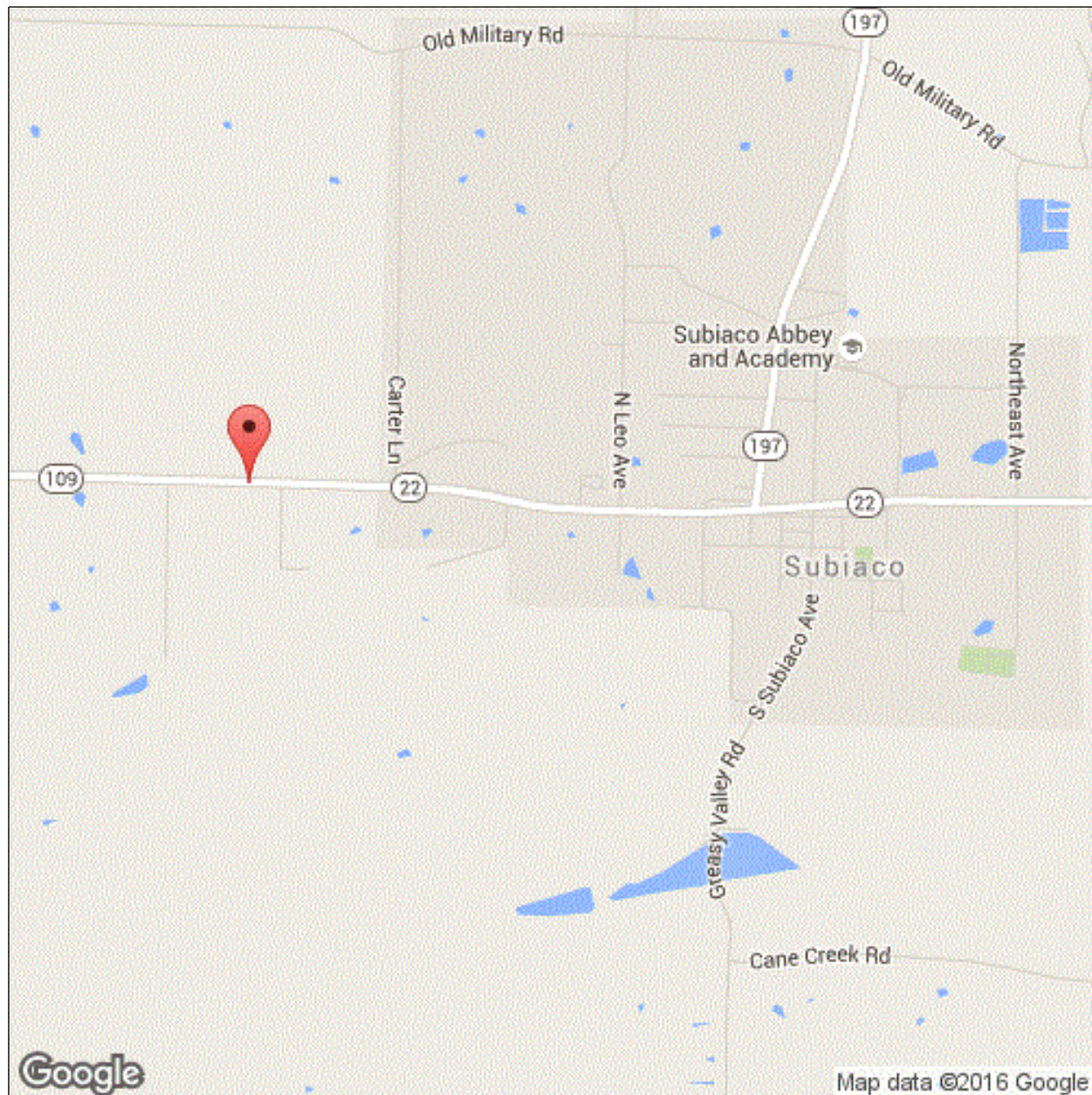
Structure Number: A0488

Inspection Date:

Facility Carried: SH 22-Logan Co.

Bridge Inspection Report

Location Map



Latitude: 35.29455

Longitude: -93.65686

Inspector:

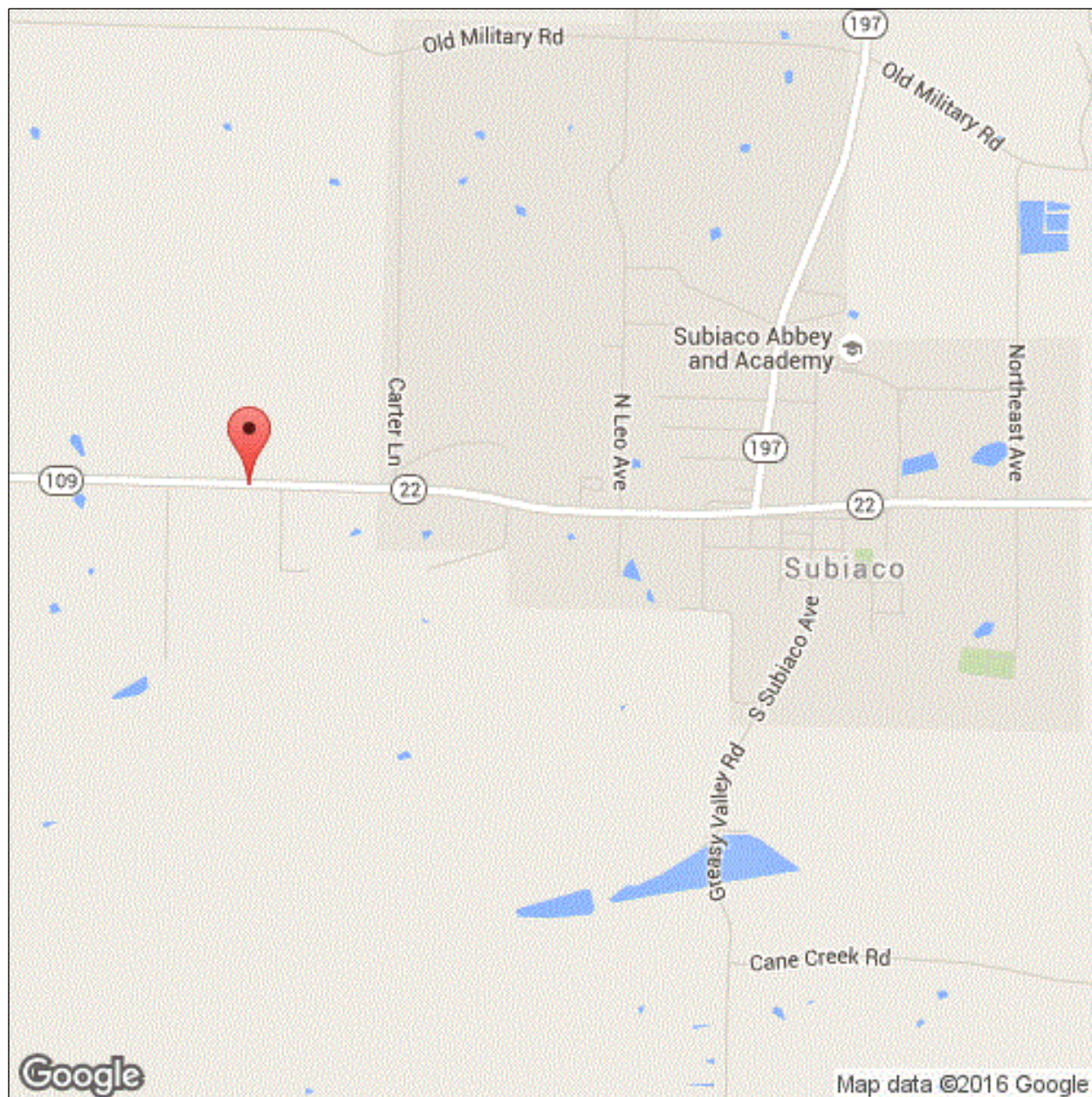
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Location Map



Latitude: 35.29455

Longitude: -93.65686

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Bridge Inspection Report

Executive Summary

Inspector:

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Inspection Date:

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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	A0488	(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	East Fork Hagwood Creek	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 22-Logan Co.		
(9) LOCATION	4.1 MI EAST JCT HWY 309		
(11) MILEPOINT 14.987	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000022030 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.29455	(17) LONGITUDE -93.65686		
(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 7	(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	47.0
(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	28.0
(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.) 28	(49) STRUCTURE LENGTH (ft.) 30	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 1.2 RIGHT 1.2		(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	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.) 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 87.1	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.	1239	26	10	0
	-Transverse cracks at approx. 6' centers with stains visible from the undersurface of each bay between concrete deck girders. -One 10" area of concrete deterioration visible from the undersurface of the Rt overhang.						
1080 - Delamination/Spall/Patched Area		1				1	
1090 - Exposed Rebar		9				9	
1120 - Efflorescence/Rust Staining		26			26		
510 - Wearing Surfaces		1212	sq. ft.	893	0	319	0
3220 - Crack (Wearing Surface)		319				319	
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	242	ft.	157	84	1	0
	-Vertical hairline flexure cracks at approx 12" centers. -Isolated areas of hairline map cracks. -Girder 7 at Bent 2 has a shallow 4" spall with exposed reinforcing steel with a light rust coating.						
1090 - Exposed Rebar		1				1	
1130 - Cracking (RC and Other)		84			84		
205 - Reinforced Concrete Column	1- Ben.	4	each	4			
	-No apparent problems at this inspection.						
220 - Reinforced Concrete Pile Cap/Footing	1- Ben.	124	ft.	124			
	-Bent 1 footing is exposed, but not undermined, at this inspection.						
234 - Reinforced Concrete Pier Cap	1- Ben.	124	ft.	100	17	7	0
	-Medium abrasion at the base of Bent 1 with a vertical crack RT of centerline. -Bent 2 has vertical and map cracking with delaminated areas & spalls in the bearing area of Girders 2 & 6 over the original construction wing wall juncture where structure was widened at a later date. -The Lt side of Bent 2 has a 2" X 2" spall with exposed reinforcing steel adjacent to Girder 2. -The Rt side of Bent 2 has a 2" X 2" delaminated area adjacent to Girder 6.						
1080 - Delamination/Spall/Patched Area		5				5	
1090 - Exposed Rebar		2				2	
1130 - Cracking (RC and Other)		17			17		
330 - Metal Bridge Railing	1- Ben.	60	ft.	0	60	0	0
	-The paint system is failing with rust showing through the paint.						
1000 - Corrosion		60			60		
515 - Steel Protective Coating		373	sq. ft.	0	373	0	0

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Element Inspection

3440 - Effectiveness (Steel Protective Coatings)		373			373		
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Pictures

PHOTO 1

Description

PHOTO 2

Description

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Sketches

Inspector:

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Maintenance Needs

Date Reported: 5/10/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Substructure

The Left side of Bent # 2 has a 2' X 2' spall with exposed reinforcing steel adjacent to Girder # 2. The Right side of Bent # 2 has a 2' X 2' delaminated area adjacent to Girder # 6.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Bent # 2 Lt spalling with exposed reinforcing steel.

Stage: Assigned



PHOTO 2 Description Bent # 2 RT delaminated area.

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Maintenance Needs

Date Reported: 05/18/2016

Priority: D - Routine

Work Code:

Deficiency Description:

Bridge Rails

The paint system is failing with rust showing through the paint.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description The paint system is failing with rust showing through the paint.

Stage: Monitor



PHOTO 2 Description Bridge rails have a failing paint system.