

Bridge Inspection Report

02943

US 70B WB Log 3.54

over

Br. GulphaCrk, McClendon



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

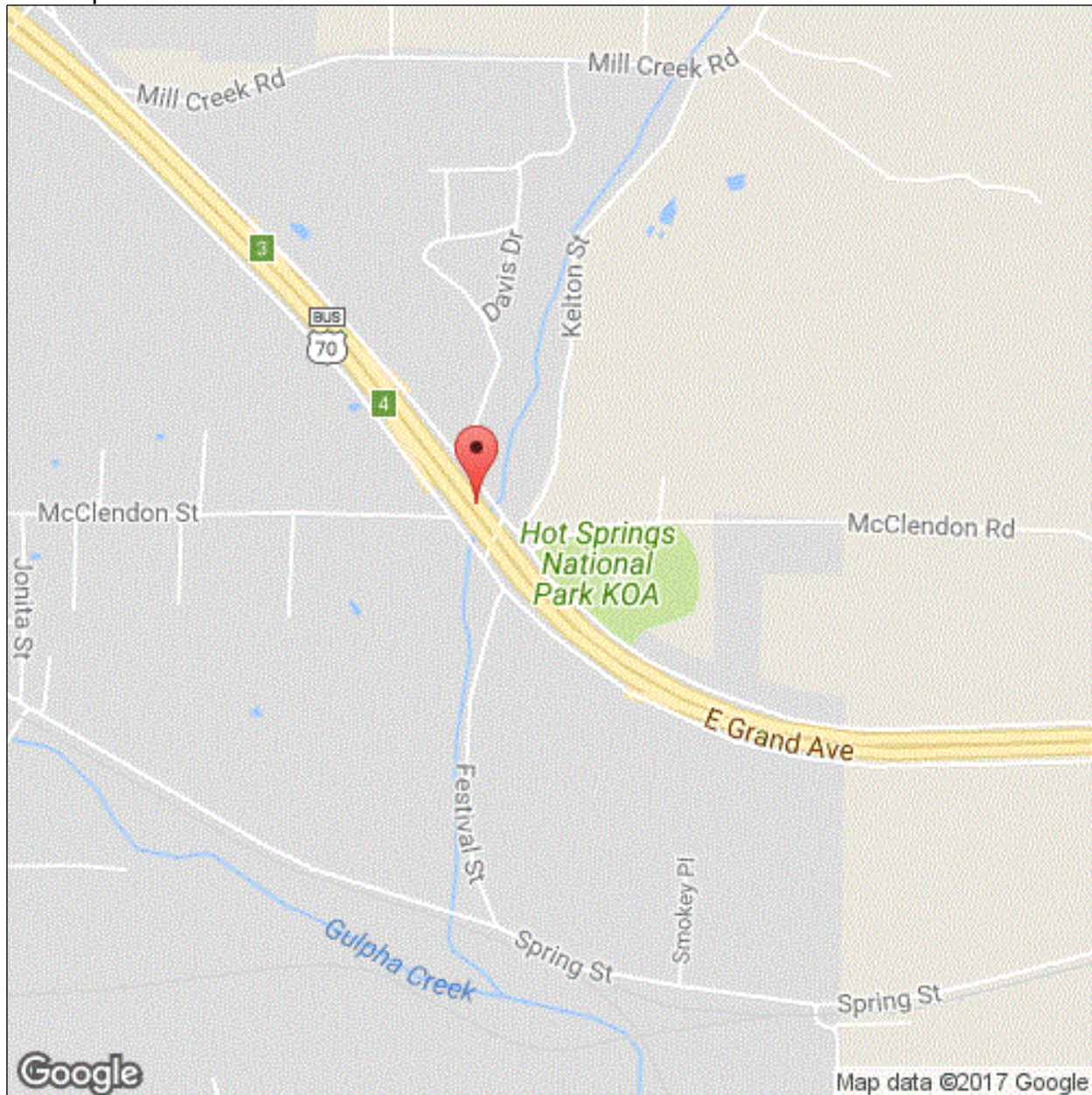
Structure Number: 02943

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Bridge Inspection Report

Location Map



Latitude: 34.50866

Longitude: -93.00957

Inspector:

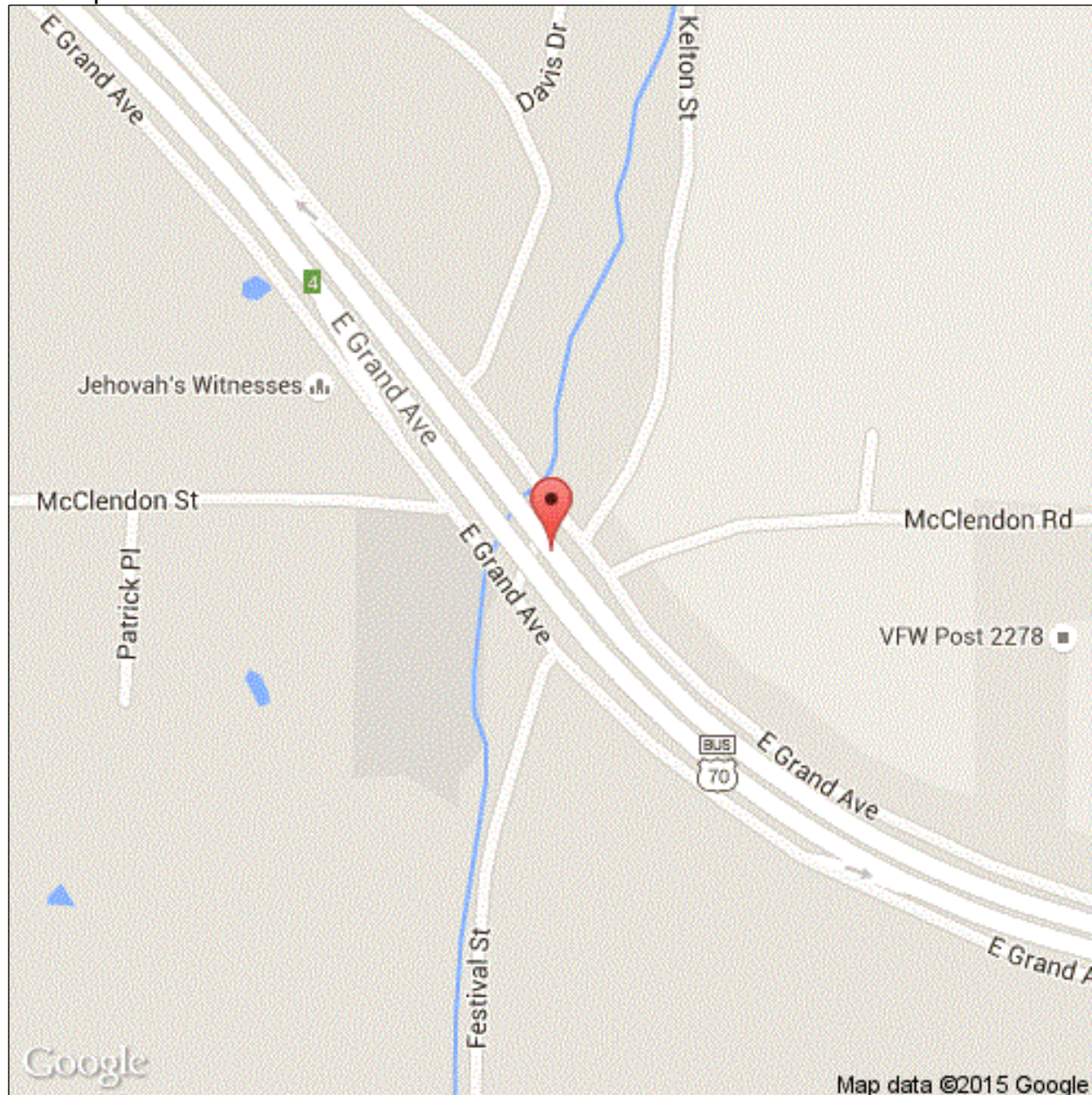
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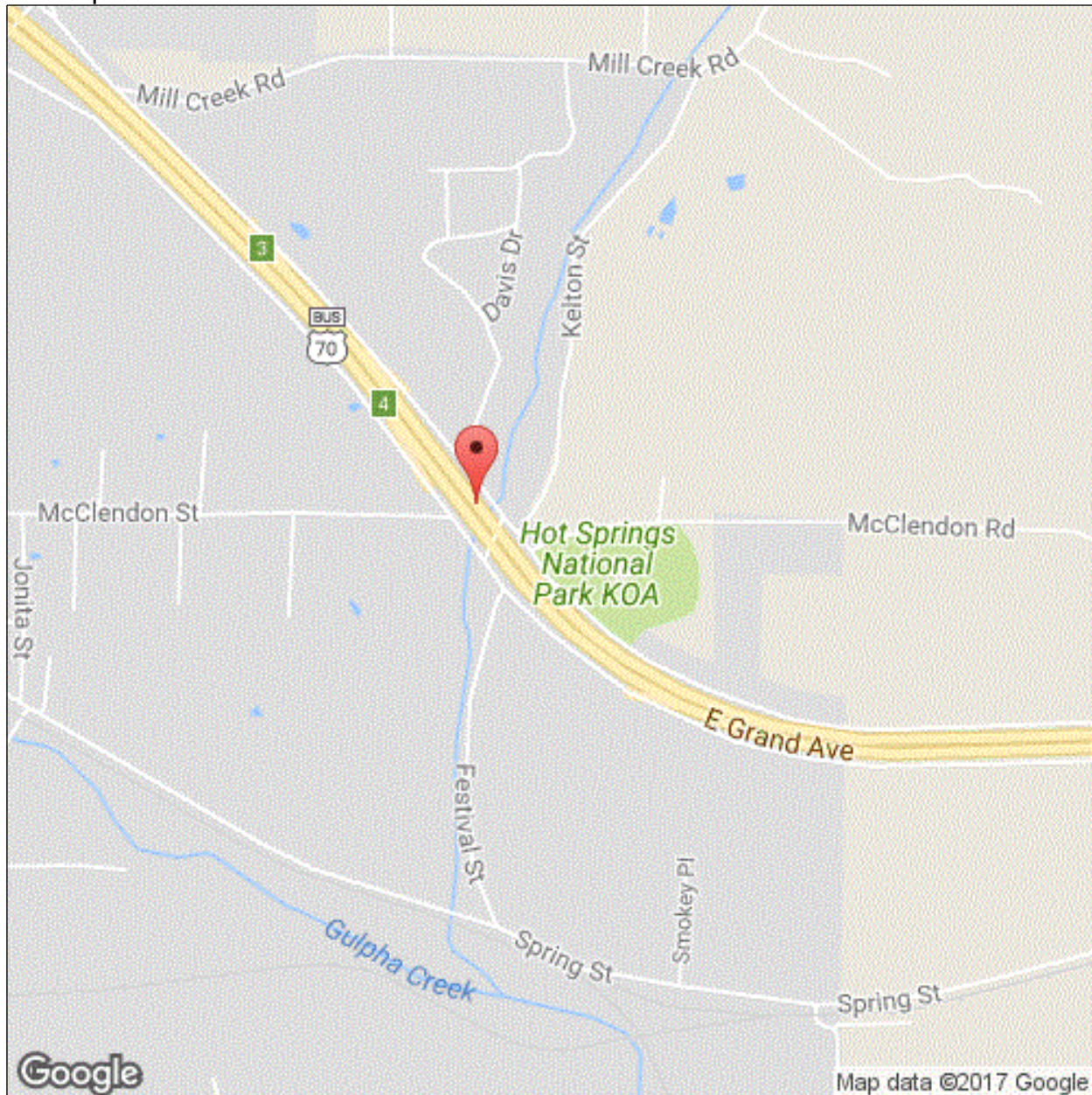
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Location Map



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Bridge Inspection Report

Executive Summary

job 6616 dwg 8981 Approach looking West

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National Bridge Inventory

IDENTIFICATION				INSPECTIONS				
(1) STATE CODE	056 - Arkansas			(90) INSPECTION DATE	07/18/2017			
(8) STRUCTURE NUMBER	02943			(91) DESIGNATED INSPECTION FREQUENCY	24			
(5) INV. ROUTE (ON/UNDER)	1	2	6	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE			
(2) HIGHWAY AGENCY	06	(3) COUNTY CODE	051	A. FRACTURE CRITICAL DETAIL	N			
(4) PLACE CODE	32540			B. UNDERWATER INSPECTION	N			
(6) FEATURES INTERSECTED	Br. GulphaCrk, McClendon			C. OTHER SPECIAL	N			
(7) FACILITY CARRIED	US 70B WB Log 3.54			CONDITION				
(9) LOCATION	3.54 MI E JCT OF SH 7			(58) DECK	6			
(11) MILEPOINT 3.539	(12) BASE HIGHWAY NETWORK 0			(59) SUPERSTRUCTURE	5	(60) SUBSTRUCTURE	5	
(13A) LRS INVENTORY ROUTE	0000000000		(13B) SUBROUTE NUMBER	00	(61) CHANNEL & CHANNEL PROTECTION	6	(62) CULVERT	N
(16) LATITUDE	34.50866	(17) LONGITUDE	-93.00957					
(98A) BORDER BRIDGE CODE				LOAD RATING AND POSTING				
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT			(31) DESIGN LOAD	4			
STRUCTURE TYPE AND MATERIAL				(63) METHOD USED TO DETERMINE OPERATING RATING	1			
(43) STRUCTURE TYPE, MAIN				(64) OPERATING RATING	60			
A) KIND OF MATERIAL/DESIGN:	3 - Steel			(65) METHOD USED TO DETERMINE INVENTORY RATING	1			
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder			(66) INVENTORY RATING	36			
(44) STRUCTURE TYPE, APPROACH SPANS				(70) BRIDGE POSTING	5			
A) KIND OF MATERIAL/DESIGN:	0 - Other			(41) STRUCTURE OPEN/POSTED/CLOSED	A			
B) TYPE OF DESIGN/CONSTR:	00 - Other			APPRAISAL				
(45) NUMBER OF SPANS IN MAIN	6	(46) NUMBER OF APPROACH	0	(67) STRUCTURAL EVALUATION	5			
(107) DECK STRUCTURE TYPE	1	(108A) WEARING SURFACE	6	(68) DECK GEOMETRY	3			
(108B) DECK MEMBRANE	0	(108C) DECK PROTECTION	0	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	4			
AGE OF SERVICE				(71) WATERWAY ADEQUACY	8			
(27) YEAR BUILT	1958	(106) YEAR RECONSTRUCTED	0000	(72) APPROACH ROADWAY ALIGNMENT	8			
(42) TYPE OF SERVICE	ON 1	UNDER	6	(36) TRAFFIC SAFETY FEATURE				
(28) LANES	ON 02	UNDER	02	36A) BRIDGE RAILINGS:	0			
(29) AVERAGE DAILY TRAFFIC	10255	(19) BYPASS DETOUR LENGTH	1	36B) TRANSITIONS:	0			
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014			36C) APPROACH GUARDRAIL:	0			
(109) AVERAGE DAILY TRUCK TRAFFIC	1			36D) APPROACH GUARDRAIL ENDS:	0			
GEOMETRIC DATA				(113) SCOUR CRITICAL BRIDGES	8			
(48) LENGTH OF MAX SPAN (ft.)	44	(49) STRUCTURE LENGTH (ft.)	266	SUFFICIENCY RATING	2	STATUS	63.5	
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 1.2	RIGHT	1.2	CLASSIFICATION				
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	27.9			(112) NBIS BRIDGE LENGTH	Y			
(52) DECK WIDTH, OUT-TO-OUT (ft.)	33.5			(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1			
(32) APPROACH ROADWAY WIDTH (ft.)	38.1			(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	12			
(33) BRIDGE MEDIAN	0	(34) SKEW (DEG.)	30	(100) STRAHNET HIGHWAY DESIGNATION	0			
(35) STRUCTURE FLARED	0	(10) INV RTE, MIN VERT CLEAR (ft.)	99.99	(101) PARALLEL STRUCTURE DESIGNATION	L			
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	30.5			(102) DIRECTION OF TRAFFIC	1			
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99			(103) TEMP STRUCTURE				
(54) VERTICAL UNDER CLEARANCE (ft.)	H	15.83		(105) FEDERAL LANDS HIGHWAYS	0			
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H	5.3		(110) DESIGNATED NATIONAL NETWORK	1			
(56) MIN LATERAL UNDER CLEARANCE (ft.)	8.2			(20) TOLL	3			
PROPOSED IMPROVEMENTS				(21) MAINTENANCE RESPONSIBILITY	01			
(75A) TYPE OF WORK PROPOSED	31	(75B) WORK DONE BY	1	(22) OWNER	01			
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	302.0			(37) HISTORICAL	5			
(94) BRIDGE IMPROVEMENT COST (\$)	0			NAVIGATION DATA				
(95) ROADWAY IMPROVEMENT COST (\$)	190			(38) NAVIGATION CONTROL	0			
(96) TOTAL PROJECT COST	855			(111) PIER OR ABUTMENT PROTECTION	1			
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2003			(39) NAV VERT CLEARANCE (ft.)	0			
(114) FUTURE ADT	4535	(115) YEAR OF FUTURE ADT	2028	(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0			
				(40) NAV HORIZONTAL CLEARANCE (ft.)	0			

Inspector:

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National Bridge Inventory

UNDER RECORD 2

IDENTIFICATION

(1) STATE CODE	056 - Arkansas	(7) FACILITY CARRIED	US 70B WB Log 3.54
(3) COUNTY CODE	051	(8) STRUCTURE NUMBER	02943
(4) PLACE CODE	32540	(9) LOCATION	3.54 MI E JCT OF SH 7
(5) INV. ROUTE (ON/UNDER)	2 5 1 38640 0	(11) MILEPOINT	0.030 (12) BASE HIGHWAY NETWORK 0
(6) FEATURES INTERSECTED	Br. GulphaCrk,McClendon St.	(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00
		(16) LATITUDE	34.50875 (17) LONGITUDE -93.0095555555556

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE, MAIN A) KIND OF MATERIAL/DESIGN: 3 - Steel
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder

AGE OF SERVICE

(19) BYPASS DETOUR LENGTH	2	(30) YEAR OF AVERAGE DAILY TRAFFIC	1998
(27) YEAR BUILT	1958	(42) TYPE OF SERVICE	ON 1 UNDER 6
(28) LANES	ON 02 UNDER 02	(109) AVERAGE DAILY TRUCK TRAFFIC	1
(29) AVERAGE DAILY TRAFFIC	118		

GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	15.8	(48) LENGTH OF MAXIMUM SPAN	44 (49) STRUCTURE LENGTH 266
(47) TOTAL HORIZONTAL CLEARANCE	35.5		

CLASSIFICATION

(20) TOLL	3	(102) DIRECTION OF TRAFFIC	2
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	19	(103) TEMP STRUCTURE	
(100) STRAHNET HIGHWAY DESIGNATION	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(101) PARALLEL STRUCTURE DESIGNATION	L	(110) DESIGNATED NATIONAL NETWORK	0

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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.	8184	sq. ft.	7811	373	0	0
	All spans have scattered cracks.						
1130 - Cracking (RC and Other)		373			373		
510 - Wearing Surfaces		7392	sq. ft.	4805	2587		
107 - Steel Open Girder/Beam	1- Ben.	1320	ft.	1187	128	5	0
	Span 1, beams 1 & 5, at bent 1 beam end has active corrosion with minor pitting. Scattered areas of active corrosion at beam ends & bottom flanges. Beams have section loss that has been painted over. Girders on span 5 has minor traffic damage. Fascia of beams 1 & 5 in all spans have peeling paint. Beams repainted 11-2-09 by H.B.M.						
1000 - Corrosion		130			125	5	
7000 - Damage		3			3		
515 - Steel Protective Coating		11000	sq. ft.	8606	2125	263	6
3420 - Peeling/Bubbling/Cracking (Steel Protective Coatings)		2125			2125		
3440 - Effectiveness (Steel Protective Coatings)		269				263	6
205 - Reinforced Concrete Column	1- Ben.	10	each	6	3	1	0
	Column 1 at bent 3 has a large spall with rebar exposed. Bent 4 columns have abrasion.						
1090 - Exposed Rebar		1				1	
1130 - Cracking (RC and Other)		1			1		
1190 - Abrasion/Wear (PSC/RC)		2			2		
215 - Reinforced Concrete Abutment	1- Ben.	90	ft.	86	4	0	0
	Both abutments have small cracks.						
1130 - Cracking (RC and Other)		4			4		
234 - Reinforced Concrete Pier Cap	1- Ben.	165	ft.	141	6	18	0
	Caps at bents 2, 3, 4, 5 and 6 have large spalls with rebar exposed						
1080 - Delamination/Spall/Patched Area		2			2		
1090 - Exposed Rebar		18				18	
1130 - Cracking (RC and Other)		4			4		
311 - Movable Bearing	1- Ben.	30	each	0	29	1	0
	Beam 1, bent 2, bearing has heavy corrosion.						
1000 - Corrosion		30			29	1	
313 - Fixed Bearing	1- Ben.	30	each	0	25	5	0
	Bent 1, 3 bearing have active corrosion. Bent 7, 2 bearings have active corrosion.						
1000 - Corrosion		30			25	5	
330 - Metal Bridge Railing	1- Ben.	528	ft.	528			
515 - Steel Protective Coating		1056	sq. ft.	0	1056	0	0

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Element Inspection

3440 - Effectiveness (Steel Protective Coatings)		1056			1056		
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Bridge Inspection Report

Pictures

Inspector:

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Bridge Inspection Report

Sketches

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 07/18/2017

Priority: D - Routine

Work Code:

Deficiency Description:

Bent 2 vines growing on columns & cap.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Bent 2 vines growing on columns & cap.

Inspector:

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 07/21/2015

Priority: C - Important

Work Code:

Deficiency Description:

Bent 1 span 1 beam 1 & 5, flaking rust to lower flange web.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Span 1, beam 5 at bent 1, peeling paint with initiation of active corrosion.

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Maintenance Needs

Date Reported: 07/21/2015

Priority: D - Routine

Work Code:

Deficiency Description:

Caps and columns have spalls with rebar exposed

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Caps at bents 2 and 3 have large spalls with rebar exposed

Stage: Monitor



PHOTO 2 Description Bent 3 looking back, spalls with exposed rebar on columns & cap.