

# Bridge Inspection Report

**A2942**  
**US 70B EB Log 1.93**  
**over**  
**GULPHA CREEK**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

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Inspector:

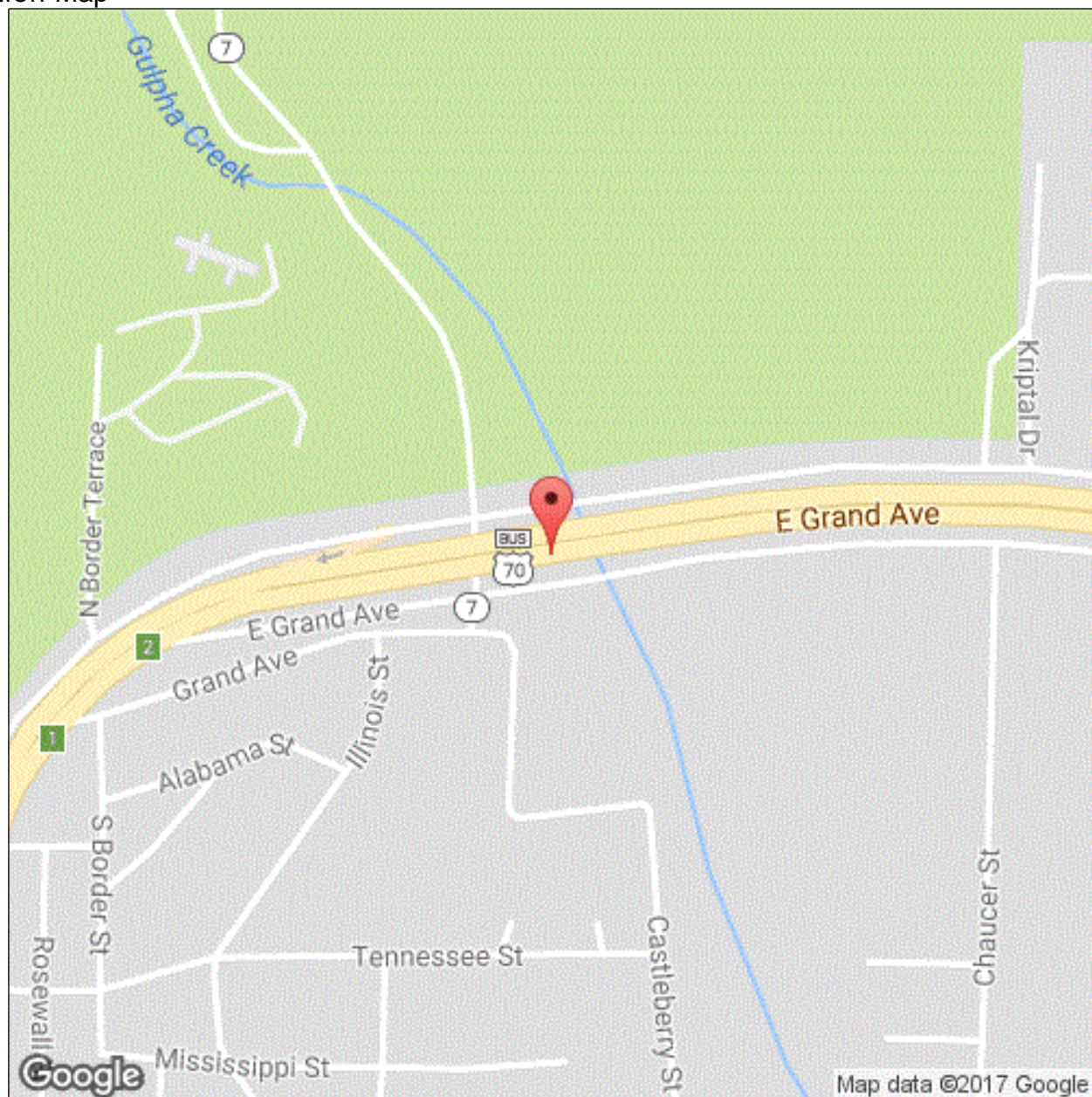
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Facility Carried: US 70B EB Log  
1.93

# Bridge Inspection Report

## Location Map



Latitude: 34.519058

Longitude: -93.032570



Inspector:

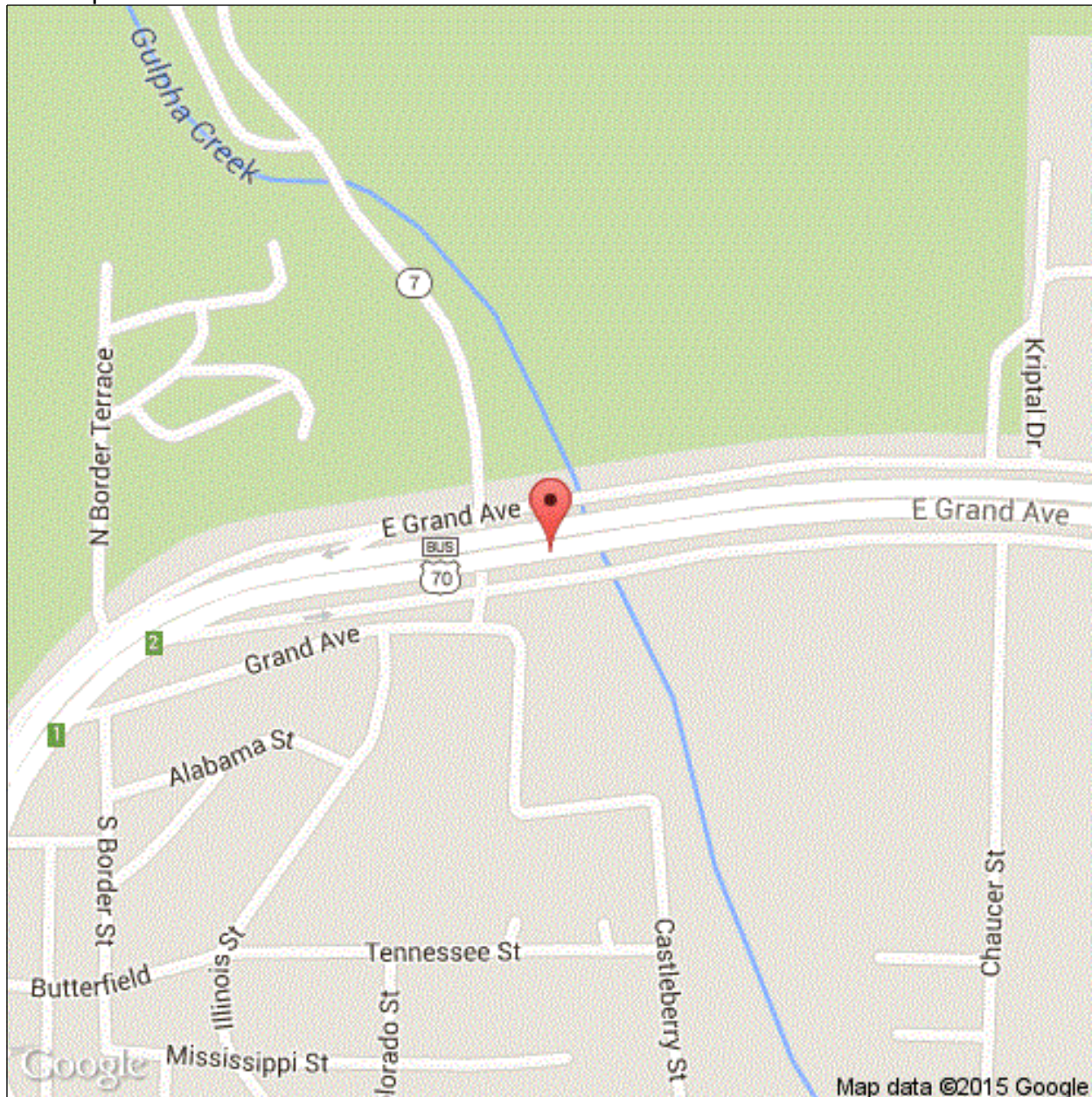
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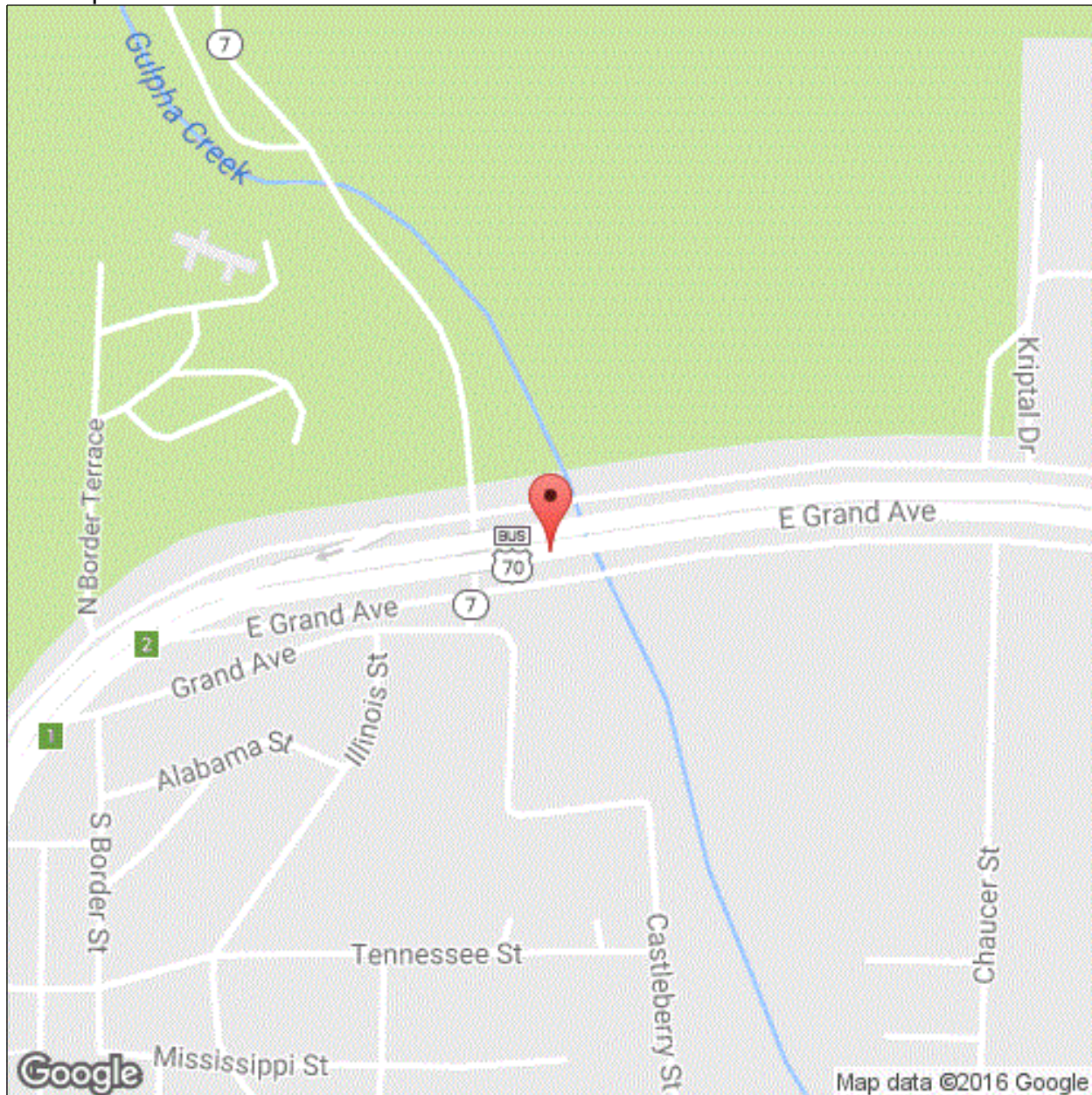
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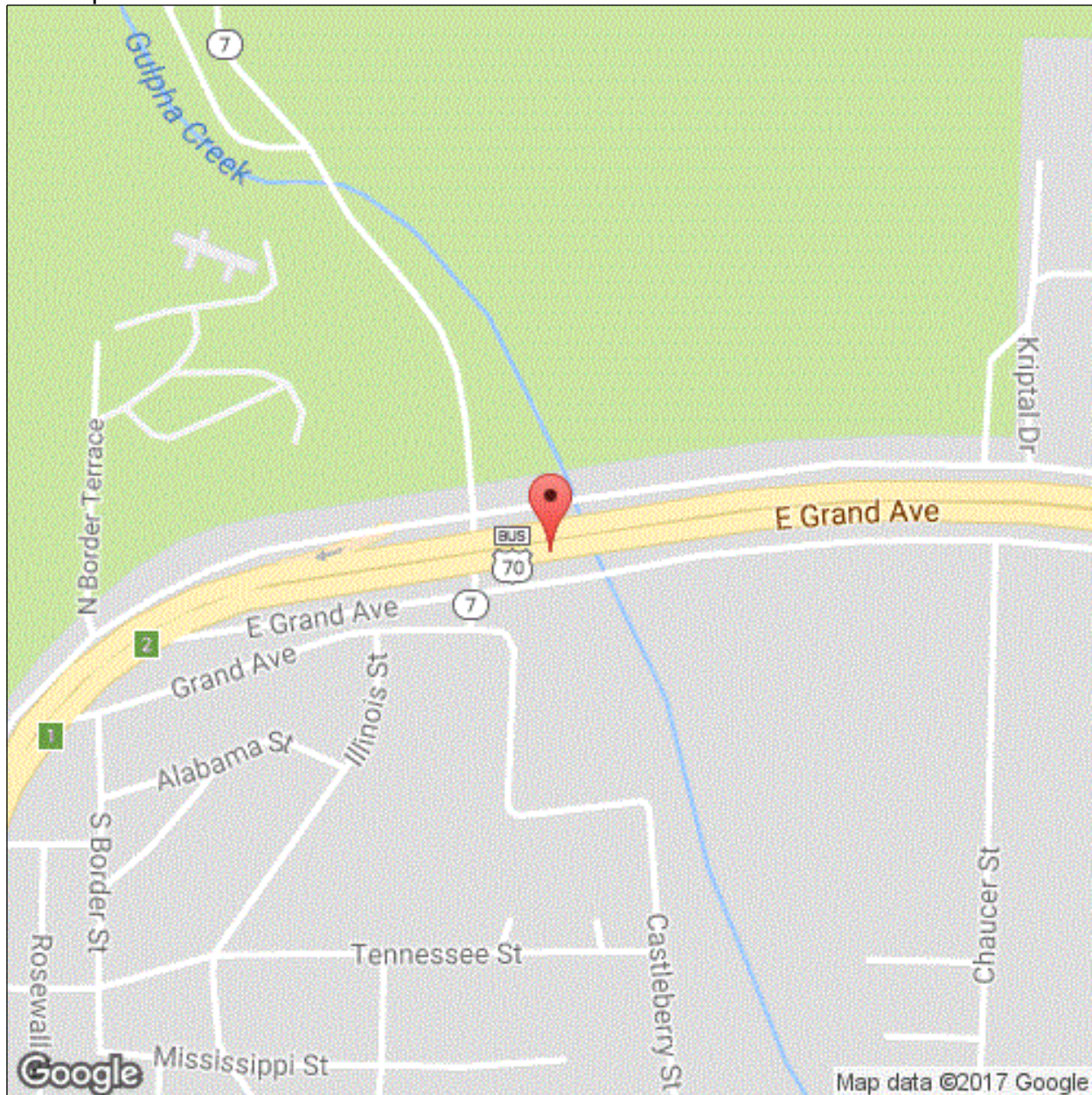
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### Executive Summary

job 6616    dwg 8978

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## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION				INSPECTIONS				
(1) STATE CODE	056 - Arkansas			(90) INSPECTION DATE	08/22/2016			
(8) STRUCTURE NUMBER	A2942			(91) DESIGNATED INSPECTION FREQUENCY	24			
(5) INV. ROUTE (ON/UNDER)	1	2	6 70 2	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE			
(2) HIGHWAY AGENCY	06	(3) COUNTY CODE	051	A. FRACTURE CRITICAL DETAIL	N			
(4) PLACE CODE	00000			B. UNDERWATER INSPECTION	N			
(6) FEATURES INTERSECTED	GULPHA CREEK			C. OTHER SPECIAL	Y	24	08/07/2017	
(7) FACILITY CARRIED	US 70B EB Log 1.93			CONDITION				
(9) LOCATION	1.93 MI E SH 7			(58) DECK	5			
(11) MILEPOINT 1.930	(12) BASE HIGHWAY NETWORK 1			(59) SUPERSTRUCTURE	4	(60) SUBSTRUCTURE	6	
(13A) LRS INVENTORY ROUTE	0000070090		(13B) SUBROUTE NUMBER	00		(61) CHANNEL & CHANNEL PROTECTION	7 (62) CULVERT	N
(16) LATITUDE	34.519058	(17) LONGITUDE	-93.032570					
(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	60.0			
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	36.0			
(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	4	(46) NUMBER OF APPROACH	0	(67) STRUCTURAL EVALUATION	4			
(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	N			
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	5	(36) TRAFFIC SAFETY FEATURE				
(28) LANES	ON 02	UNDER	00	36A) BRIDGE RAILINGS:	0			
(29) AVERAGE DAILY TRAFFIC	5000	(19) BYPASS DETOUR LENGTH	0	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.)	55	(49) STRUCTURE LENGTH (ft.)	222	SUFFICIENCY RATING	1	STATUS	50.0	
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 2	RIGHT	2	CLASSIFICATION				
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	27.9			(112) NBIS BRIDGE LENGTH	Y			
(52) DECK WIDTH, OUT-TO-OUT (ft.)	33.6			(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1			
(32) APPROACH ROADWAY WIDTH (ft.)	34.1			(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	12			
(33) BRIDGE MEDIAN	0	(34) SKEW (DEG.)	0	(100) STRAHNET HIGHWAY DESIGNATION	0			
(35) STRUCTURE FLARED	0	(10) INV RTE, MIN VERT CLEAR (ft.)	99.99	(101) PARALLEL STRUCTURE DESIGNATION	R			
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	30.8			(102) DIRECTION OF TRAFFIC	1			
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99			(103) TEMP STRUCTURE				
(54) VERTICAL UNDER CLEARANCE (ft.)	N		0	(105) FEDERAL LANDS HIGHWAYS	0			
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N		99.9	(110) DESIGNATED NATIONAL NETWORK	1			
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0			(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.)	256.0			(37) HISTORICAL	5			
(94) BRIDGE IMPROVEMENT COST (\$)	0			NAVIGATION DATA				
(95) ROADWAY IMPROVEMENT COST (\$)	190			(38) NAVIGATION CONTROL	0			
(96) TOTAL PROJECT COST	760			(111) PIER OR ABUTMENT PROTECTION	1			
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2003			(39) NAV VERT CLEARANCE (ft.)	0			
(114) FUTURE ADT	3286	(115) YEAR OF FUTURE ADT	2028	(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
12 - Reinforced Concrete Deck	1- Ben.	6820	sq. ft.	6487	333	0	0
	The soffit of all spans has cracking with efflorescence. Small spalls on the deck haunches. The wearing surface has random cracks.						
1080 - Delamination/Spall/Patched Area		2			2		
1130 - Cracking (RC and Other)		331			331		
510 - Wearing Surfaces		6160	sq. ft.	4208	1952	0	0
3210 - Delamination/Spall/Patched Area/Pothole (Wearing Surfaces)		452			452		
3220 - Crack (Wearing Surface)		1500			1500		
107 - Steel Open Girder/Beam	1- Ben.	1100	ft.	813	280	7	0
	Span 2, beam 5 at bent 2 and span 4 beam 4 at bent 4 have pitting to 3/16 inch deep to the web and bottom flange. All of the paint has failed. The top and bottom flanges of most beams have active surface rust.						
1000 - Corrosion		287			280	7	
515 - Steel Protective Coating		9900	sq. ft.	0	3500	4760	1640
3440 - Effectiveness (Steel Protective Coatings)		9900			3500	4760	1640
205 - Reinforced Concrete Column	1- Ben.	6	each	1	5	0	0
	Column1 at bents 2 and 3 have spalls with rebar exposed on the back side and column 2 at bent 4 on the ahead side. Bent 3, the top of both footings are exposed.						
1090 - Exposed Rebar		3			3		
6000 - Scour		2			2		
215 - Reinforced Concrete Abutment	1- Ben.	76	ft.	76			
234 - Reinforced Concrete Pier Cap	1- Ben.	87	ft.	76	11	0	0
	Cracks in the ends of the cap of bents 3. The caps have delams on the bottom.						
1080 - Delamination/Spall/Patched Area		5			5		
1130 - Cracking (RC and Other)		6			6		
311 - Movable Bearing	1- Ben.	20	each	0	16	4	0
	All bearings have rust with rotation. Span 2 at bent 2 bearings under girders 3,4 and 5 have a 1/4 inch gap around pins, same on span 4 under girders 2,3 and 4						
1000 - Corrosion		16			16		
1020 - Connection		4				4	
313 - Fixed Bearing	1- Ben.	20	each	0	20	0	0
	Surface rust on most bearings.						
1000 - Corrosion		20			20		
333 - Other Bridge Railing	1- Ben.	440	ft.	220	220	0	0
	The metal rail has active corrosion.						
1000 - Corrosion		220			220		

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## Bridge Inspection Report

Pictures



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## Bridge Inspection Report

Sketches

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### Bridge Inspection Report

#### Maintenance Needs

Date Reported: 08/23/2016

Priority: D - Routine

Work Code: N/A

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#### Deficiency Description:

All bearings have rust with rotation. Span 2 at bent 2 bearings under girders 3,4 and 5 have a 1/4 inch gap around pins, same on span 4 under girders 2,3 and 4.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Open



PHOTO 1      Description      Span 2 at bent 2 bearings under girders 3,4 and 5 have a 1/8 inch gap around pins



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### Bridge Inspection Report

#### Maintenance Needs

Date Reported: 08/23/2016

Priority: C - Important

Work Code: N/A

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#### Deficiency Description:

Soffit has small cracks and spalls. Asphalt wearing surface has large unsealed cracks.

#### Work Description:

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#### Date Repairs Completed:

#### Maintenance Comments:

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Stage: Open



PHOTO 1      Description      Asphalt overlay has large spalls and unsealed cracks

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#### Maintenance Needs

Date Reported: 08/23/2016

Priority: C - Important

Work Code: N/A

#### Deficiency Description:

Painted system is failing. The webs and bottom flanges of the beams ends have active rust with pitting to 3/16 inch deep.

#### Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Painted over section loss

Stage: Monitor



PHOTO 2 Description Span 4 girder 5, pitting up to 3/16" in web and bottom flange