

# Bridge Inspection Report

**A3092**  
**I -30 Log 113.64**  
**over**  
**US 67-9 Log 7.61**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**



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Inspector:

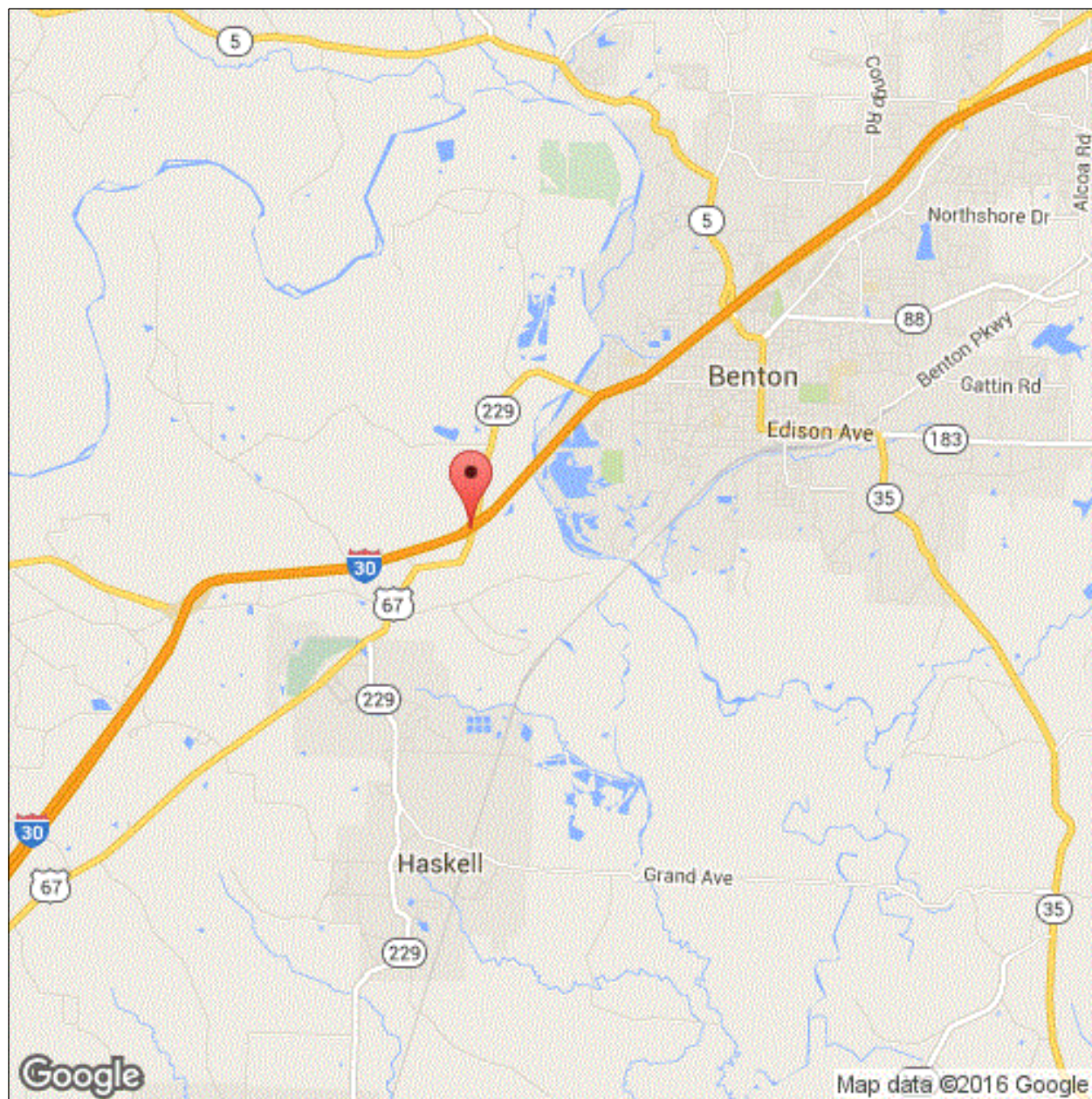
Structure Number: A3092

Inspection Date:

Facility Carried: I-30 Log 113.64

## Bridge Inspection Report

### Location Map



Latitude: 34.54471

Longitude: -92.63138



Inspector:

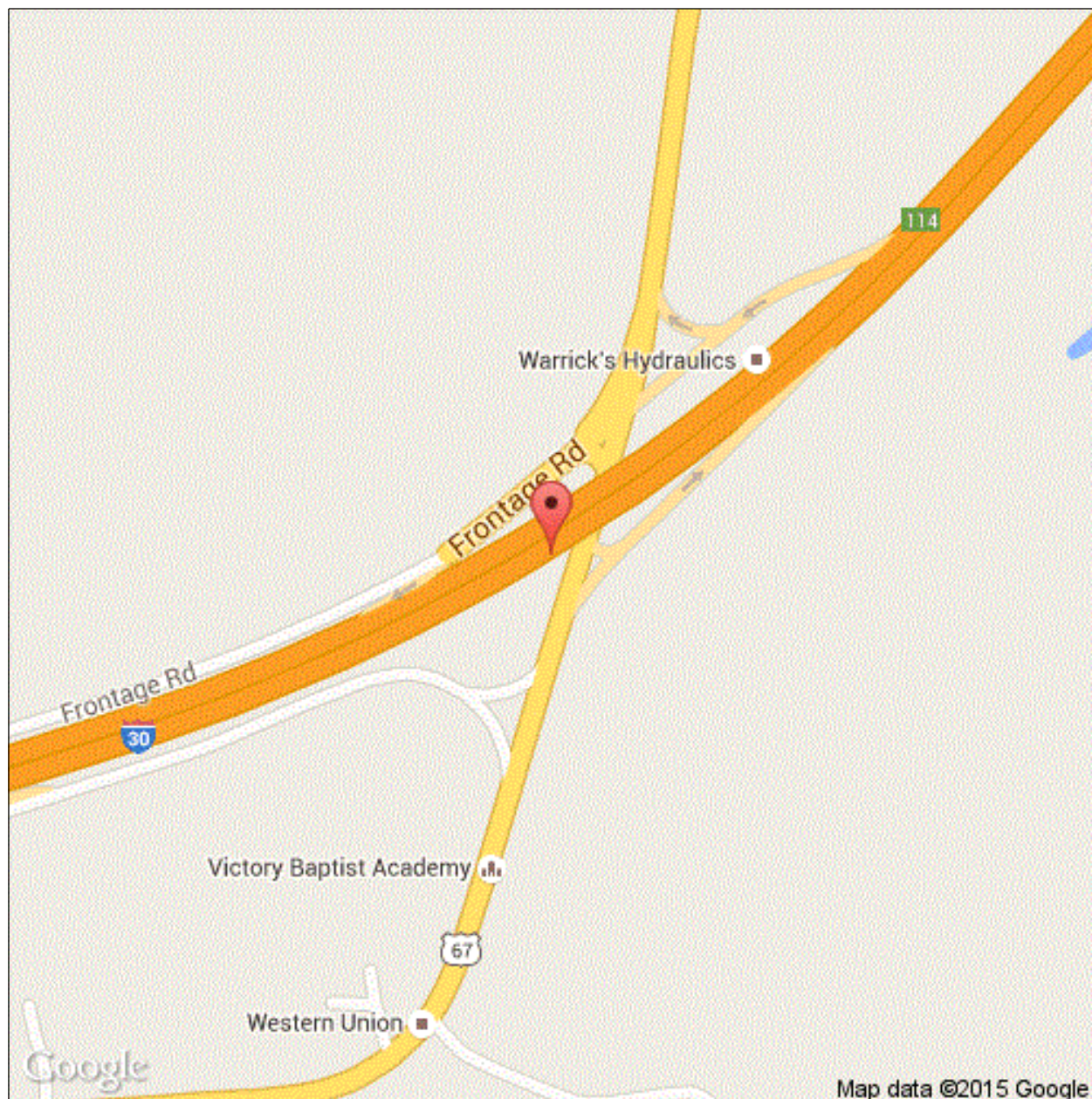
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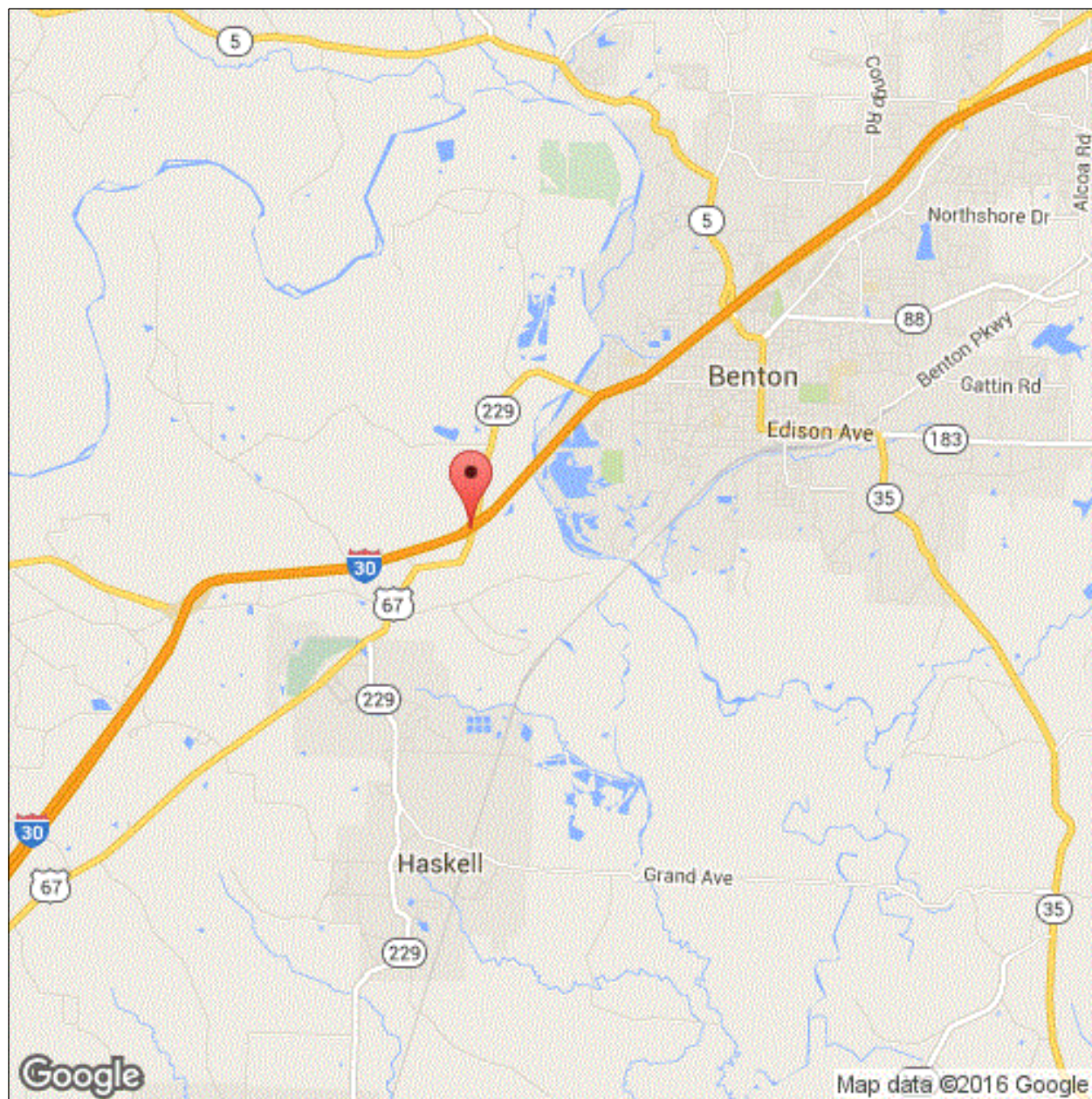
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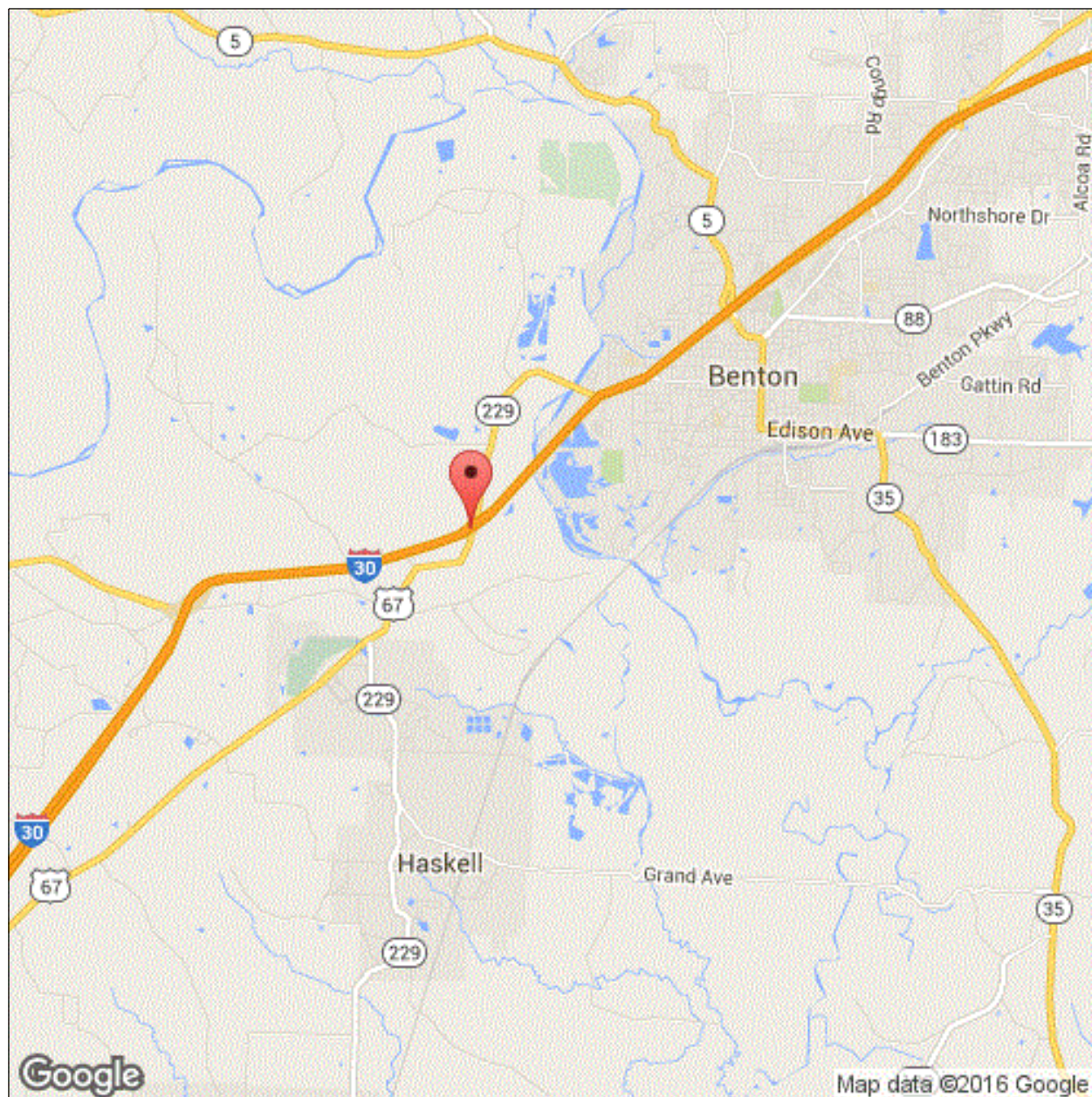
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### Executive Summary

Approach looking East with log mile.

Job # 60247, drawing # 24664

Inspected West/East



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## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	05/14/2018
(8) STRUCTURE NUMBER	A3092	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 1 1 30 2	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	06 (3) COUNTY CODE 125	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	US 67-9 Log 7.61	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	I-30 Log 113.64		
(9) LOCATION	3 MI SW SH 5 BENTON		
(11) MILEPOINT 113.640	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000030220 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.54471	(17) LONGITUDE -92.63138		
(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: 3 - Steel		(59) SUPERSTRUCTURE	5
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(60) SUBSTRUCTURE	7
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	N
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN 3	(46) NUMBER OF APPROACH 0		
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 2		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1958	(106) YEAR RECONSTRUCTED 1983	(31) DESIGN LOAD	6
(42) TYPE OF SERVICE ON 1 UNDER 1		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 02		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 73000	(19) BYPASS DETOUR LENGTH 1	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	36.0
(109) AVERAGE DAILY TRUCK TRAFFIC 30		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 85	(49) STRUCTURE LENGTH (ft.) 258	(67) STRUCTURAL EVALUATION	5
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	7
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 40.0		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	7
(52) DECK WIDTH, OUT-TO-OUT (ft.) 43		(71) WATERWAY ADEQUACY	N
(32) APPROACH ROADWAY WIDTH (ft.) 40.0		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 50	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99	36A) BRIDGE RAILINGS:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.) 41.0		36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.) H 16.75		36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) H 11.6		(113) SCOUR CRITICAL BRIDGES	N
(56) MIN LATERAL UNDER CLEARANCE (ft.) 10		SUFFICIENCY RATING	79.1
		STATUS	0
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 0		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	01
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	1
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	R
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	1
(114) FUTURE ADT 37000	(115) YEAR OF FUTURE ADT 2033	(103) TEMP STRUCTURE	
		(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	1
		(20) TOLL	3
		(21) MAINTENANCE RESPONSIBILITY	01
		(22) OWNER	01
		(37) HISTORICAL	5
		NAVIGATION DATA	
		(38) NAVIGATION CONTROL	N
		(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
12 - Reinforced Concrete Deck	1- Ben.	10935	sq. ft.	7925	2491	519	0
	5/14/2018 - KRM & RLS - 26' wide portion of deck has a 1 3/4" overlay. Transverse/longitude and map cracking in all spans. Spalls filled with asphalt in wearing surface.						
1080 - Delamination/Spall/Patched Area		9		0	0	9	0
1120 - Efflorescence/Rust Staining		60		0	60	0	0
1130 - Cracking (RC and Other)		1909		0	1399	510	0
1190 - Abrasion/Wear (PSC/RC)		1032		0	1032	0	0
510 - Wearing Surfaces		6630	sq. ft.	4539	1404	687	0
3210 - Delamination/Spall/Patched Area/Pothole (Wearing Surfaces)		42		0	0	42	0
3220 - Crack (Wearing Surface)		939		0	924	15	0
3230 - Effectiveness (Wearing Surface)		1110		0	480	630	0
107 - Steel Open Girder/Beam	1- Ben.	1785	ft.	1746	14	25	0
	5/14/2018 - KRM & RLS - Girders have section loss in top portion of web at the haunches at bents 2 and 3. Bent 4 girders 2-5 have up to 3/8" section loss to bottom of bottom flange. Diaphragm connections have sheared bolts at several locations that are documented in maintenance needs. Diaphragm connections have cracks in the toe of weld at the following locations, Span 2 girder 1 diaphragm 2,3 and 4 and girder 7 diaphragm 4. Paint is losing its effectiveness on exterior girders.						
1000 - Corrosion		26		0	6	20	0
1010 - Cracking		5		0	0	5	0
1020 - Connection		8		0	8	0	0
515 - Steel Protective Coating		16065	sq. ft.	13941	2040	84	0
3440 - Effectiveness (Steel Protective Coatings)		2124		0	2040	84	0
205 - Reinforced Concrete Column	1- Ben.	8	each	8	0	0	0
	5/14/2018 - KRM & RLS - No apparent noteworthy defects at this inspection.						
215 - Reinforced Concrete Abutment	1- Ben.	134	ft.	122	12	0	0
	5/14/2018 - KRM & RLS - Abutments have vertical cracks with efflorescence staining.						
1120 - Efflorescence/Rust Staining		6		0	6	0	0
1130 - Cracking (RC and Other)		6		0	6	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	134	ft.	115	19	0	0
	5/14/2018 - KRM & RLS - Caps have delams and vertical cracks, also exposed reinforcing steel on bottom side of caps.						
1080 - Delamination/Spall/Patched Area		3		0	3	0	0
1090 - Exposed Rebar		13		0	13	0	0
1130 - Cracking (RC and Other)		3		0	3	0	0



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## Element Inspection

300 - Strip Seal Expansion Joint	1- Ben.	260	ft.	170	84	0	6
5/14/2018 - KRM & RLS - All joints have debris buildup in gutters and bent 4 has 4' of joint material missing.							
2310 - Leakage		6		0	0	0	6
2350 - Debris Impaction		84		0	84	0	0
311 - Movable Bearing	1- Ben.	21	each	0	14	7	0
5/14/2018 - KRM & RLS - Bearings have laminating rust, bearings at bent 3 have pack rust also.							
1000 - Corrosion		21		0	14	7	0
313 - Fixed Bearing	1- Ben.	21	each	0	0	21	0
5/14/2018 - KRM & RLS - All bearings have laminating/pack rust.							
1000 - Corrosion		21		0	0	21	0
321 - Reinforced Concrete Approach Slab	1- Ben.	4680	sq. ft.	4535	0	145	0
5/14/2018 - KRM & RLS - Both approaches have large unsealed transverse cracks.							
1130 - Cracking (RC and Other)		145		0	0	145	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	510	ft.	340	170	0	0
5/14/2018 - KRM & RLS - Concrete bridge rail have vertical cracks and exposed reinforcing steel.							
1090 - Exposed Rebar		45		0	45	0	0
1130 - Cracking (RC and Other)		125		0	125	0	0



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## Bridge Inspection Report

### Pictures

PHOTO 1

Description

PHOTO 2

Description



Inspector:

Inspection Date:

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## Bridge Inspection Report

### Pictures

PHOTO 3

Description



Inspector:

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## Bridge Inspection Report

Sketches



Inspector:

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### Bridge Inspection Report

#### Maintenance Needs

Date Reported: 5/22/2014 12:00:00 AM

Priority: C - Important

Work Code:

---

Deficiency Description:

Span 2 spalls in the rigid overlay.

Photo attached.

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---



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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 5/22/2014 12:00:00 AM

Priority: C - Important

Work Code:

---

#### Deficiency Description:

Bearings at bents 1 & 4 have heavy laminating rust, Added 5/14/2018 - Bearings at bent have laminating/pack rust. Photo attached.

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Open



PHOTO 1      Description      Bent 3 girder 6 bearing has laminating/pack rust.

Stage: Open



PHOTO 2      Description      Bent 4 bearing 2, laminating/pack rust.



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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 5/22/2014 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Deck all spans large unsealed cracks.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Span 3 longitudinal cracking in deck.

Stage: Open



PHOTO 2 Description Transverse cracking span 3.



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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 05/29/2015

Priority: C - Important

Work Code:

---

#### Deficiency Description:

Span 1 between beams 6 and 7. The first diaphragm has missing and loose bolts and diaphragm is not attached to beam 7 and diaphragm is laying on flange.

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Open



PHOTO 1      Description      First diaphragm at bent 1 between girders 6 and 7 has loose and missing bolts.

Stage: Open



PHOTO 2      Description      Span 1 girder 7 diaphragm 1 is sitting on bottom flange, all 4 bolts are loose on girder 6.



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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 05/31/2016

Priority: D - Routine

Work Code:

---

#### Deficiency Description:

Span 3 girder 5 diaphragm 3 has 3 missing bolts.

Added 5/14/2018 - Sheared bolts in diaphragm connection at the following locations, Bent 1 girder 3, Bent 2 girder 3, Bent 3 girder 2, 3, 5 and 6.

Missing bolts - Span 2 girder 5 diaphragm 4.

#### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Open



PHOTO 1      Description      Span 2 girder 5 has a missing bolt in bottom of diaphragm connection.

Stage: Open



PHOTO 2      Description      Bent 2 girder 3 has 2 sheared bolts.



Inspector:

Inspection Date:

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## Bridge Inspection Report

### Maintenance Needs

Stage: Open



PHOTO 3	Description	Bent 3 girder 6 sheared bolt in diaphragm connection.
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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 05/14/2018

Priority: C - Important

Work Code:

---

Deficiency Description:

Girders 2-5 at bent 4 have up to 3/8" section loss to bottom of bottom flange at the bearing.

Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Open



PHOTO 1      Description      Bent 4 girder 2 has 5/16" section loss to bottom of bottom flange.