

# Bridge Inspection Report

**A3093**  
**I-30 EB Log 113.96**  
**over**  
**SALINE RIVER RELIEF**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

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Inspector:

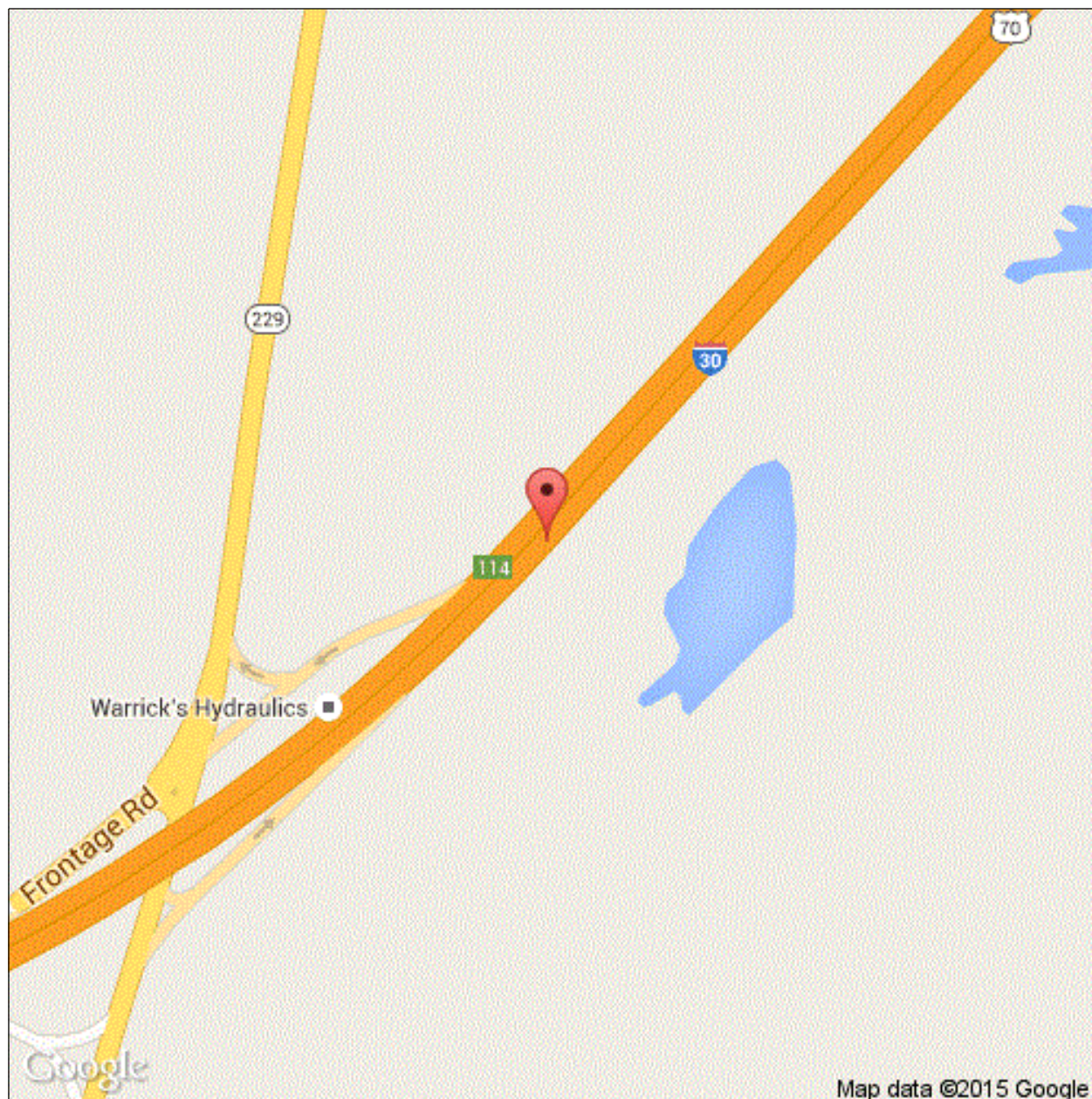
Inspection Date:

Structure Number: A3093

Facility Carried: I-30 EB Log 113.96

## Bridge Inspection Report

### Location Map



Latitude: 34.54753

Longitude: -92.62727



Inspector:

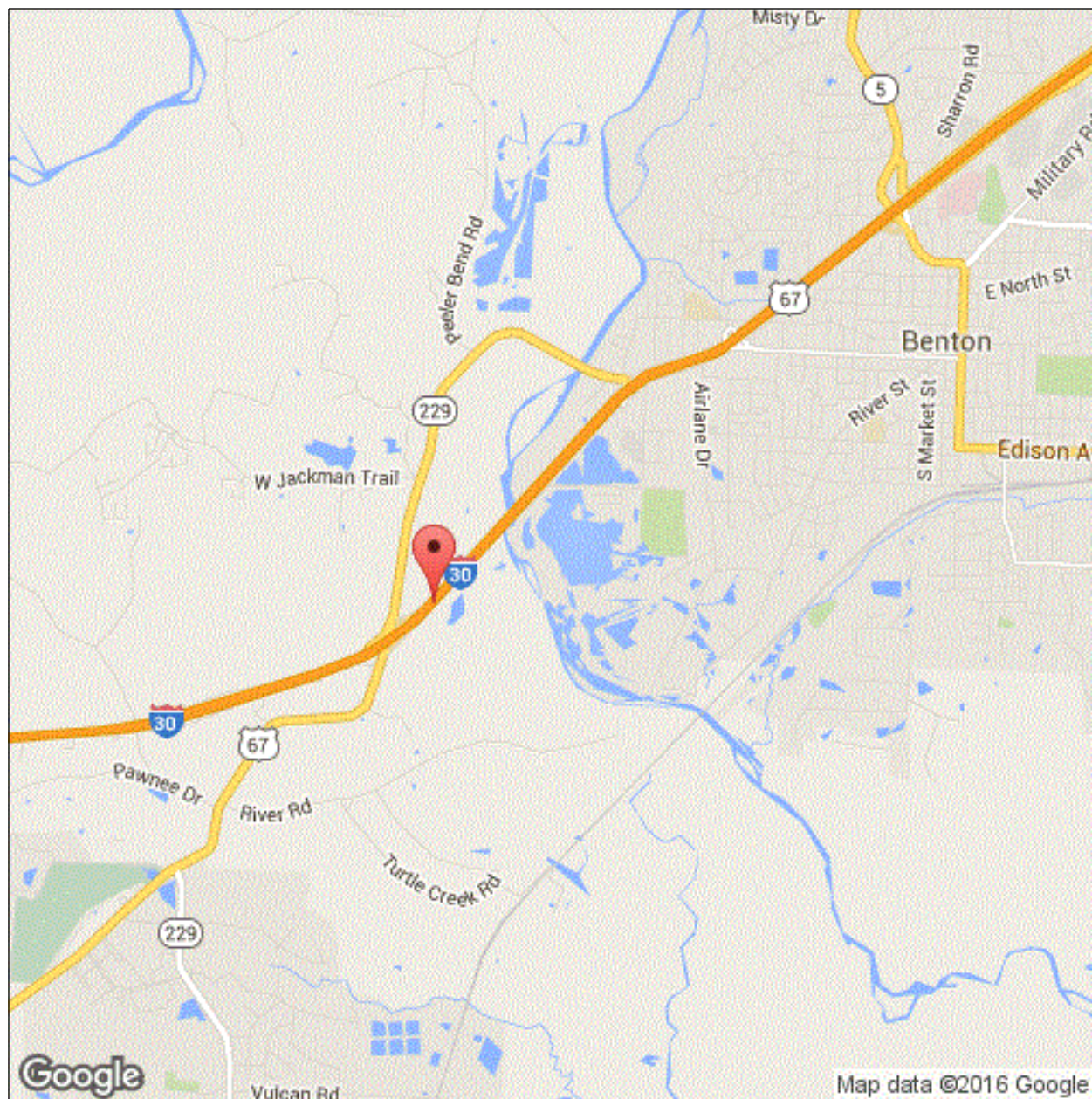
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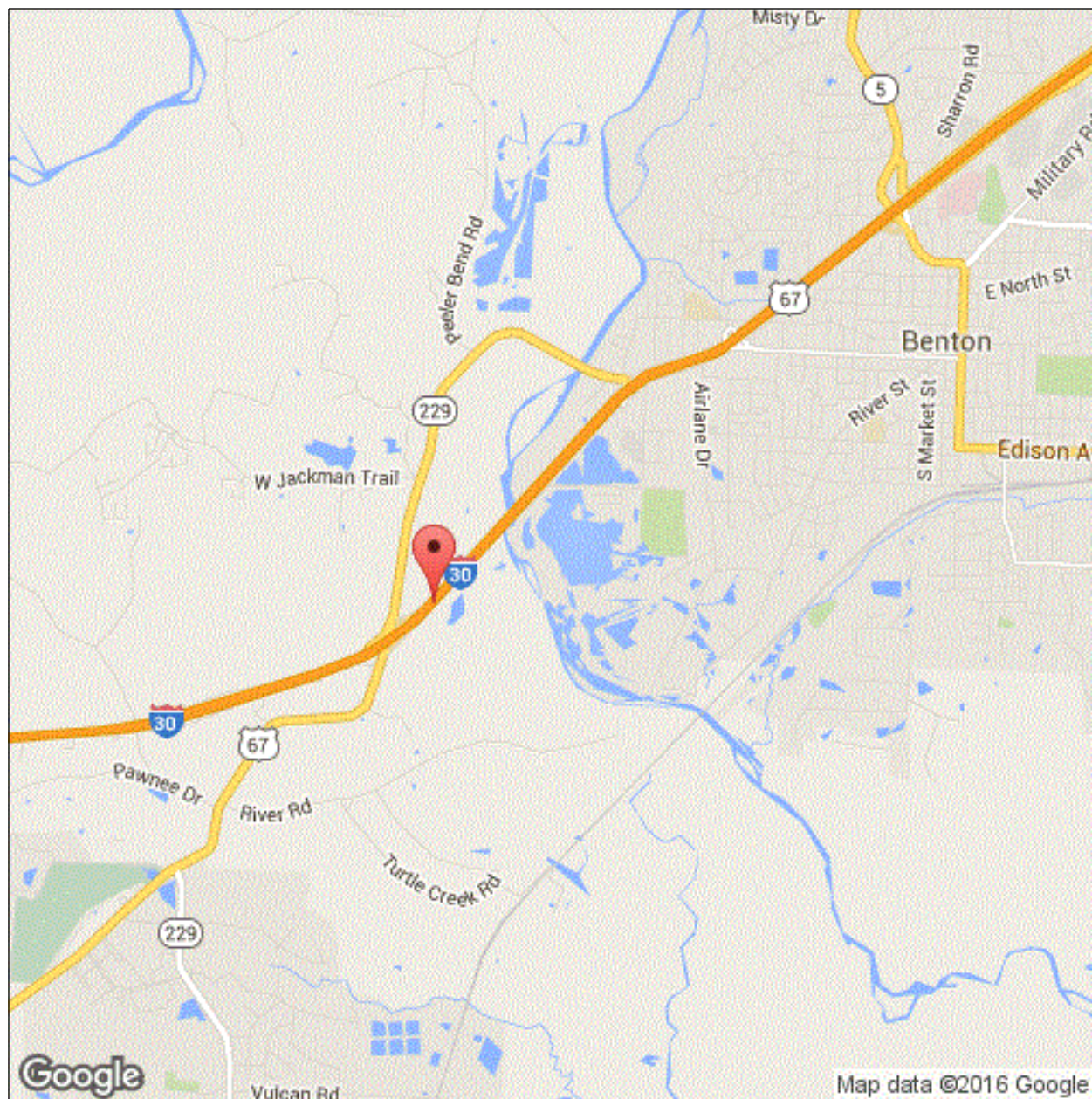
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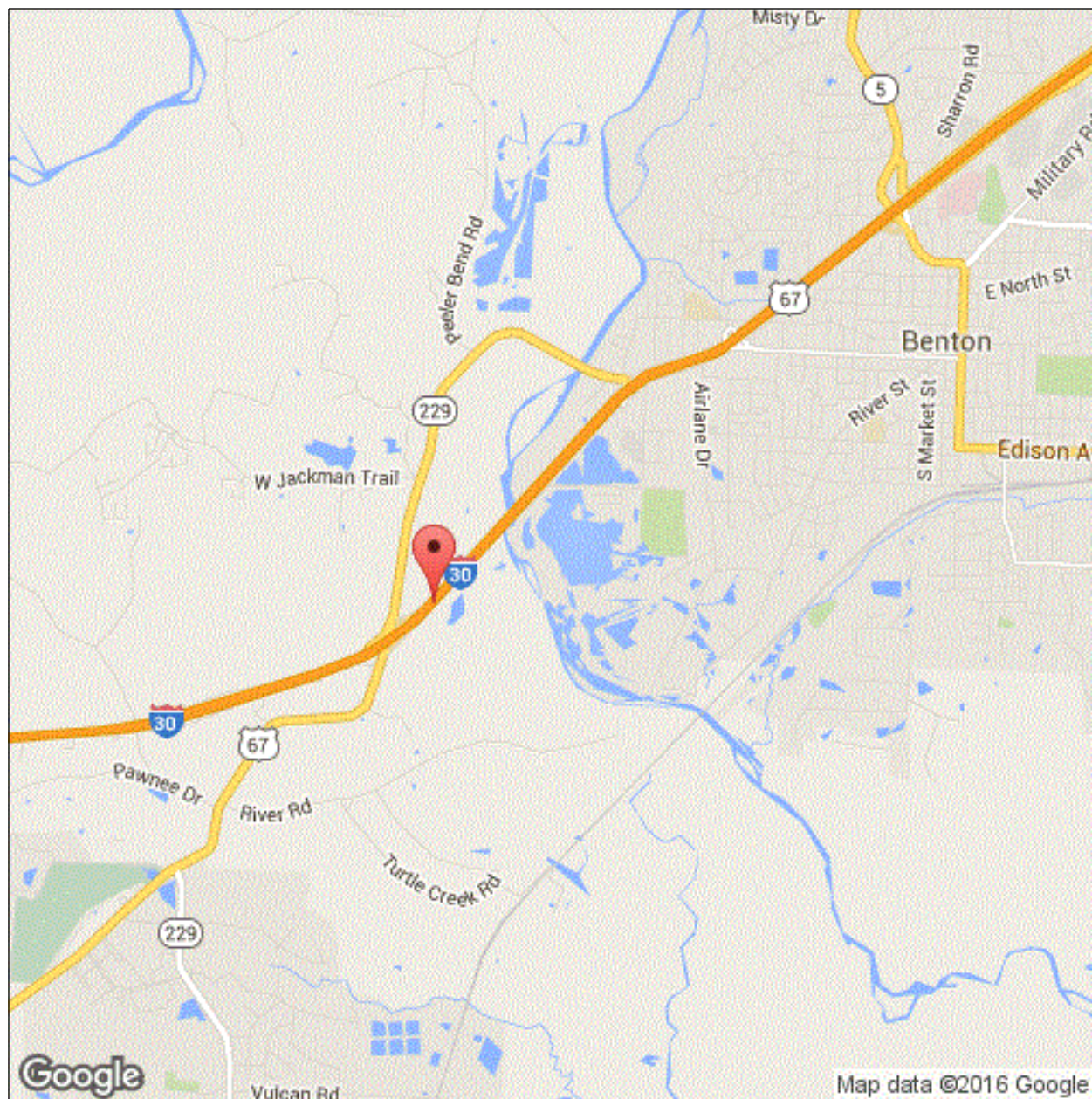
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### Executive Summary

Job 60247 dwg 24681. approach looking east  
Logged west to east.

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## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	06/05/2018
(8) STRUCTURE NUMBER	A3093	(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	SALINE RIVER RELIEF	C. OTHER SPECIAL	Y 24 06/29/2017
(7) FACILITY CARRIED	I-30 EB Log 113.96		
(9) LOCATION	2.7 MI SW OF SH 5 @ BENTO		
(11) MILEPOINT 113.960	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000030220 (13B) SUBROUTE NUMBER 30		
(16) LATITUDE 34.54753	(17) LONGITUDE -92.62727		
(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	4 (60) SUBSTRUCTURE 6
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(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 10	(46) NUMBER OF APPROACH 0		
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 1		
(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 5		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 00		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 65000	(19) BYPASS DETOUR LENGTH 0	(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.) 50	(49) STRUCTURE LENGTH (ft.) 503.1	(67) STRUCTURAL EVALUATION	4
(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	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 42.8		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 40.0		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 45	(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.) N 0		36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) N 99.9		(113) SCOUR CRITICAL BRIDGES	5
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		SUFFICIENCY RATING	71.0 STATUS 1
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	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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## Bridge Inspection Report

## Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	21400	sq. ft.	13482	7390	528	0
	6/5/2018 - KRM & RLS - Large transverse/longitude cracks in all spans. moderate scaling in both lanes in wheel paths. Soffits have cracking with efflorescence.						
1120 - Efflorescence/Rust Staining		240		0	240	0	0
1130 - Cracking (RC and Other)		5678		0	5150	528	0
1190 - Abrasion/Wear (PSC/RC)		2000		0	2000	0	0
107 - Steel Open Girder/Beam	1- Ben.	3500	ft.	3309	154	37	0
	6/5/2018 - KRM & RLS - Span 1 beam 1 at diaphragms 2 & 3, crack in the bottom weld. Span 8 beam 7 at diaphragm 2 crack in the weld. Span 10 beam 7 at diaphragm 3 crack in the web. All cracks have no change at this inspection. Beams ends have been cleaned and painted in the past, but still have minor section loss in scattered locations. Bottom of webs have minor corrosion in isolated areas.						
1000 - Corrosion		186		0	154	32	0
1010 - Cracking		4		0	0	4	0
1020 - Connection		1		0	0	1	0
515 - Steel Protective Coating		31500	sq. ft.	26050	5450	0	0
3420 - Peeling/Bubbling/Cracking (Steel Protective Coatings)		420		0	420	0	0
3440 - Effectiveness (Steel Protective Coatings)		5030		0	5030	0	0
215 - Reinforced Concrete Abutment	1- Ben.	122	ft.	112	10	0	0
	6/5/2018 - KRM & RLS - Bents 1 and 11 have vertical cracks and cracks with efflorescence.						
1120 - Efflorescence/Rust Staining		4		0	4	0	0
1130 - Cracking (RC and Other)		6		0	6	0	0
225 - Steel Pile	1- Ben.	72	each	5	57	10	0
	6/5/2018 - KRM & RLS - Steel piles have corrosion in the top and bottom flanges.						
1000 - Corrosion		67		0	57	10	0
515 - Steel Protective Coating		2880	sq. ft.	1593	380	840	67
234 - Reinforced Concrete Pier Cap	1- Ben.	547	ft.	534	10	3	0
	6/5/2018 - KRM & RLS - Caps have minor vertical cracks, Bent 4 has a spall at girder 2 ahead side.						
1080 - Delamination/Spall/Patched Area		3		0	0	3	0
1130 - Cracking (RC and Other)		10		0	10	0	0
302 - Compression Joint Seal	1- Ben.	622	ft.	0	362	245	15
	6/5/2018 - KRM & RLS - Joints have lost adhesion in the driving lanes and has debris in the shoulders.						
2320 - Seal Adhesion		420		0	160	245	15

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## Element Inspection

2350 - Debris Impaction		202		0	202	0	0
311 - Movable Bearing	1- Ben.	70	each	0	17	53	0
6/5/2018 - KRM & RLS - All bearings have moderate to heavy pack rust. Bent 5 span 5 moveable bearing 2, the bearing pin has worked out of bearing 1 ¼". Bent 7 span 7 moveable bearing 4 has a gap between bearing and sole plate causing traffic impact to bearing. Photos attached. The movement is caused by the pin being worn, making it loose. Similar condition at girder 5.							
1000 - Corrosion		70		0	17	53	0
313 - Fixed Bearing	1- Ben.	70	each	5	15	50	0
6/5/2018 - KRM & RLS - Bearings have corrosion and moderate pack rust, Bent 1 bearing 2 has movement under traffic impact.							
1000 - Corrosion		65		0	15	50	0
321 - Reinforced Concrete Approach Slab	1- Ben.	3870	sq. ft.	3786	24	60	0
6/5/2018 - KRM & RLS - Large unsealed vertical cracks in both approaches.							
1130 - Cracking (RC and Other)		84		0	24	60	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	1000	ft.	765	235	0	0
6/5/2018 - KRM & RLS - Concrete bridge rails have vertical cracks scattered throughout structure.							



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## Bridge Inspection Report

### Pictures

PHOTO 1

Description

PHOTO 2

Description

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Inspection Date:

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## Bridge Inspection Report

Sketches



Inspector:

Structure Number: A3093

Inspection Date:

Facility Carried: I-30 EB Log 113.96

## Bridge Inspection Report

### Maintenance Needs

Date Reported: 6/25/2012 12:00:00 AM

Priority: D - Routine

Work Code:

---

#### Deficiency Description:

Span 4 beam 5 at the 2nd diaphragm has a bolt missing at the bottom of the connection. 6/5/2018 Changed priority from C to D

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Open



PHOTO 1      Description      Span 4 girder 5 missing bolt.

Inspector:

Structure Number: A3093

Inspection Date:

Facility Carried: I-30 EB Log 113.96

## Bridge Inspection Report

### Maintenance Needs

Date Reported: 6/18/2014 12:00:00 AM

Priority: B - Pressing; 6 month completion goal

Work Code:

#### Deficiency Description:

Span 1 beam 1 at diaphragm 2 crack in the bottom weld.

Span 1 beam 1 at diaphragm 3 crack in the web.

Span 8 beam 7 at diaphragm 2 crack in the weld.

Span 10 beam 7 at diaphragm 3 crack in the web.

Photos attached.

#### Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Forward State



PHOTO 1 Description Span 8 beam 7 diaphragm 2 has a 7/8 inch crack in the web

Stage: Open

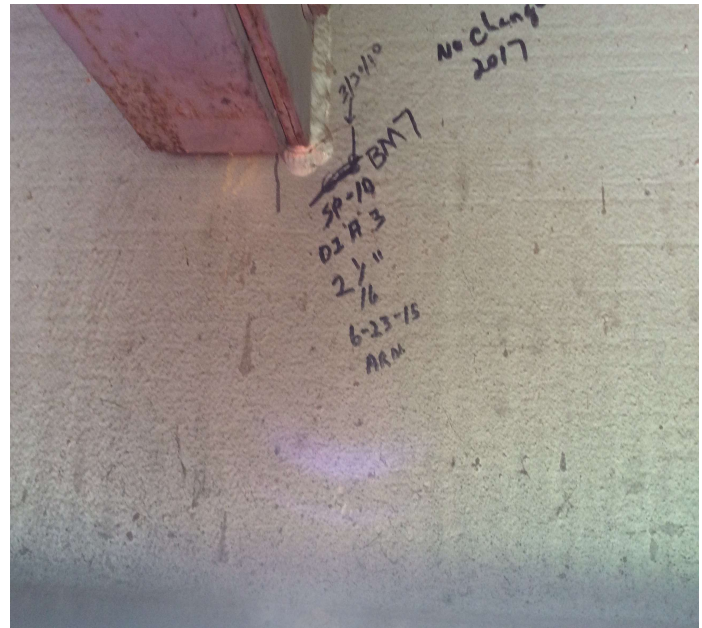


PHOTO 2 Description Span 10 girder 7 diaphragm 3 crack in web. No change since last inspection.



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## Bridge Inspection Report

### Maintenance Needs

Stage: Open



PHOTO 3 Description Span 1 girder 1 diaphragm 2 crack in toe of weld

Stage: Open



PHOTO 4 Description Span 1 girder 1 diaphragm 3 crack in web.

Stage: Open

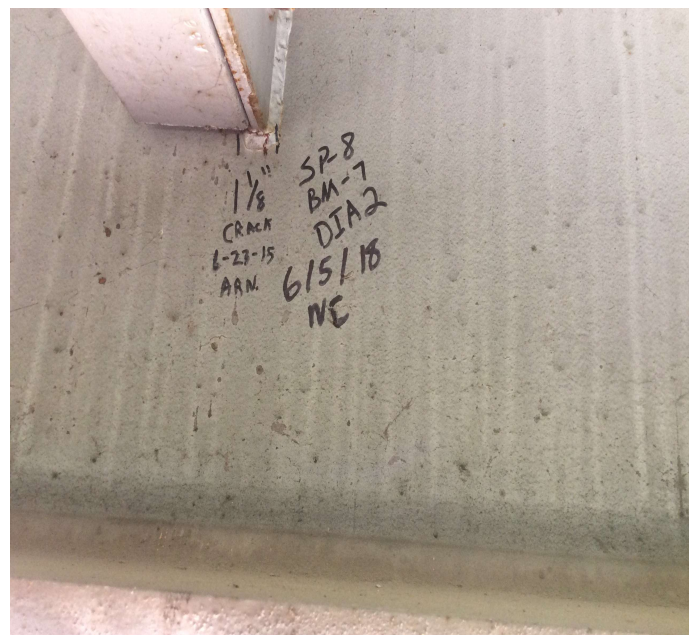


PHOTO 5 Description Span 8 beam 7 diaphragm 2 crack in toe of weld.

Stage: Forward State

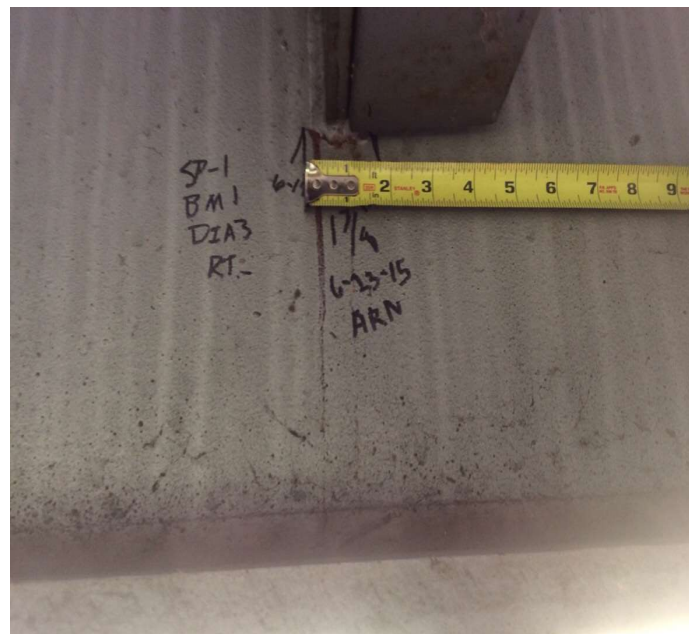


PHOTO 6 Description Span 1 beam 1 diaphragm 3 has 1 5/8 inch crack in the web

Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Stage: Forward State



PHOTO 7      Description      Girder 1 span 1 diaphragm 2 has a 1 inch crack in the web

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 6/18/2014 12:00:00 AM

Priority: B - Pressing; 6 month completion goal

Work Code:

---

#### Deficiency Description:

Bent 5 span 5 moveable bearing 2 the bearing pin has worked out of bearing 1 ¼"

Bent 7 span 7 moveable bearing 4 has a gap between bearing and sole plate causing traffic impact to bearing.

Photos attached.

The movement is caused by the pin being worn making it loose. Similar condition at girder 5

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

---

Stage: Forward State



PHOTO 1      Description      Bearing pin working out.

Stage: Open



PHOTO 2      Description      Bent 4 moveable bearing 4 has movement under traffic impact.



Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Stage: Open



PHOTO 3      Description      Bent 5 moveable bearing 3 pin is working out.

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### Bridge Inspection Report

## Maintenance Needs

Date Reported: 6/18/2014 12:00:00 AM

Priority: B - Pressing; 6 month completion goal

Work Code:

---

### Deficiency Description:

Bent 5 span 4 fixed bearing 4 has a gap between bearing and sole plate.

Added 6/5/2018 Bent 5 fixed bearing 3 has a gap between bearing and sole plate.

Photo attached.

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Forward State



PHOTO 1      Description      Gap between bearing and sole plate.

Stage: Open



PHOTO 2      Description      Bent 5 fixed bearing 3 has up to 3/8" gap between the bearing and sole plate. bearing 4 has a gap also.

Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 6/18/2014 12:00:00 AM

Priority: C - Important

Work Code:

---

Deficiency Description:

Deck on all spans have large unsealed cracks and bent 1 and 7 have a large pothole in roadway.

Work Description:

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Date Repairs Completed:

Maintenance Comments:

---

Stage: Open



PHOTO 1      Description      Large transverse cracks in right lane.

Stage: Open



PHOTO 2      Description      Large transverse cracks in right lane.



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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 6/18/2014 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Bearings at all bents have active laminating rust.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1      Description      Most bearings have heavy pack rust build up.

Stage: Open



PHOTO 2      Description

Inspector:

Inspection Date:

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## Bridge Inspection Report

### Maintenance Needs

Stage: Open



PHOTO 3      Description      Bent 4 bearing 1 ahead side has pack rust. Typical for moveable bearings.

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 06/21/2016

Priority: C - Important

Work Code:

---

Deficiency Description:

Joint seals at all bents are torn and leaking.

Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Open



PHOTO 1      Description      Bent 5 joint has lost adhesion in both lanes.