

# Bridge Inspection Report

01594

SH 28-Scott Co.

over

Fourche Le Fave River



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

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Inspector:

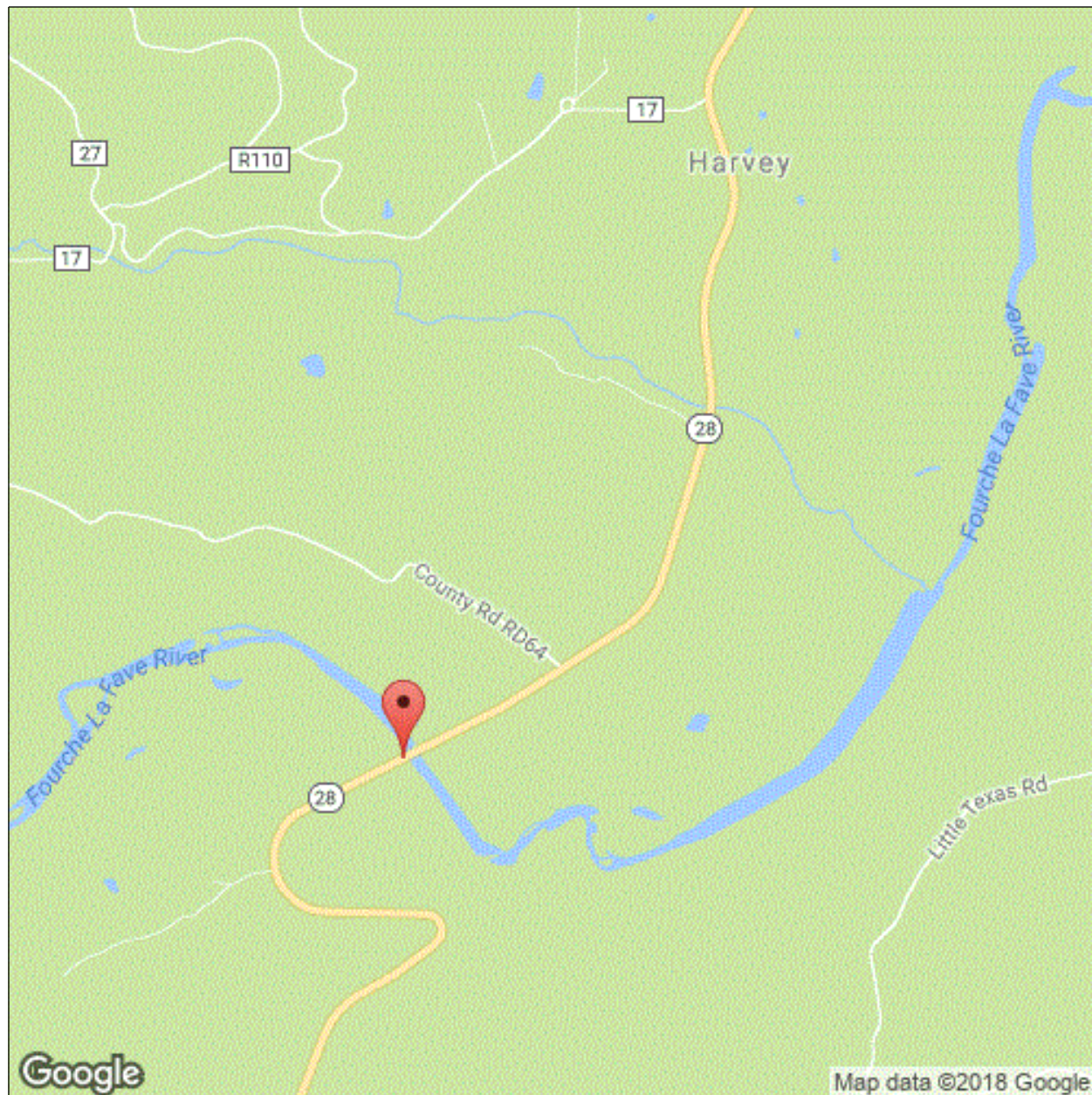
Structure Number: 01594

Inspection Date:

Facility Carried: SH 28-Scott Co.

## Bridge Inspection Report

### Location Map



Latitude: 34.82670

Longitude: -93.79843



Inspector:

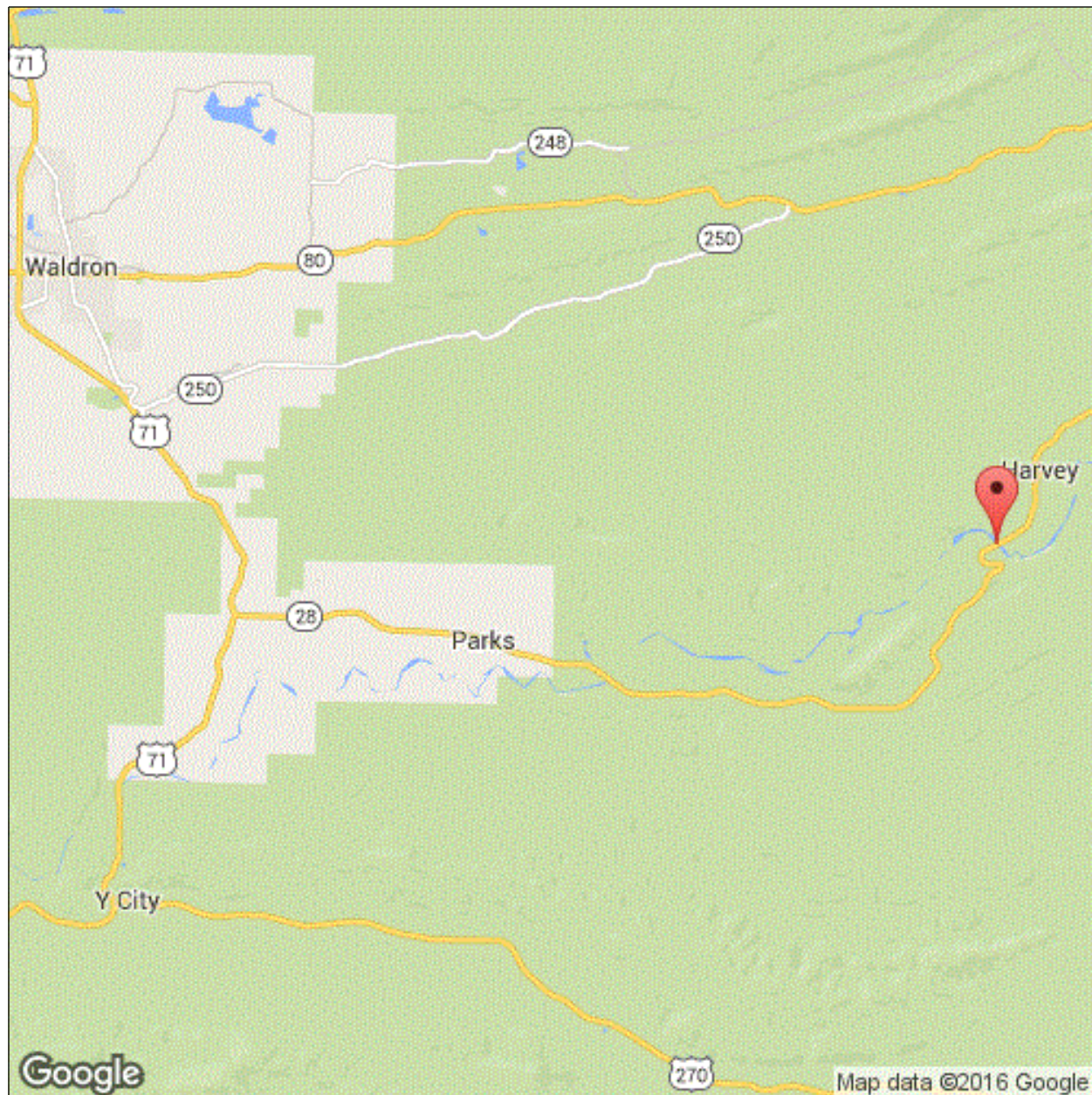
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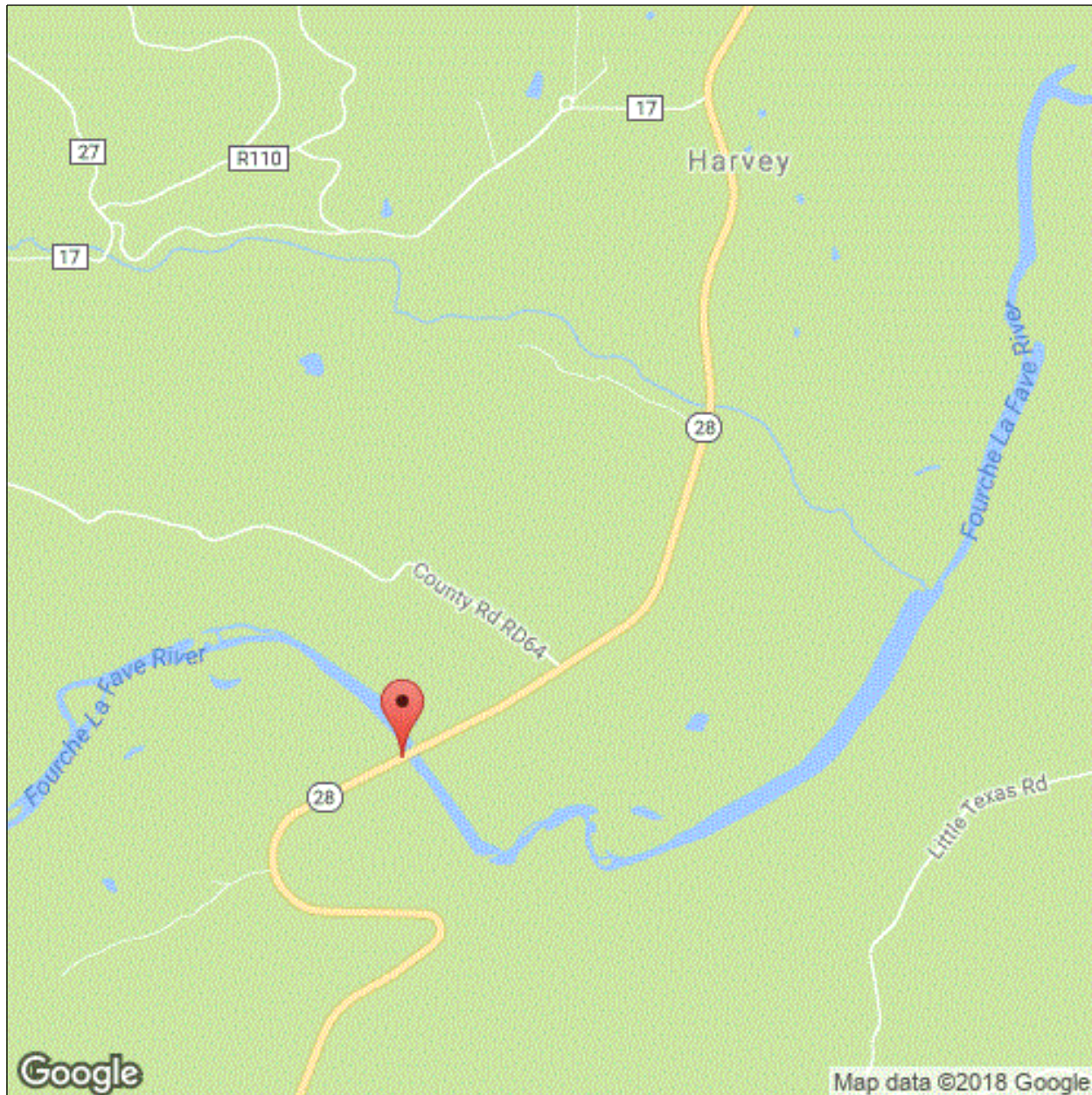
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## Bridge Inspection Report

### Location Map



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**Bridge Inspection Report**

**Executive Summary**

03/14/2018 - EJW & JPW - Routine and Underwater Type 2 inspections conducted on this date.

Underwater Inspection-Wading and probing indicate that Bents # 2 & 3 footings have cover at this inspection with no apparent scour problems at this inspection. The right side of the footing of Bent # 5 is exposed at this inspection but does not appear to be undermined. Bent # 5 has scour around the bent that has exposed approximately 36" of the vertical face of what appears to be the original timber form work below the water level but does not appear to undermine the footing at this inspection. State Maintenance forces have back filled the large scour holes at bents # 6-9 since the last inspection.

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## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	03/14/2018
(8) STRUCTURE NUMBER	01594	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 28 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	04 (3) COUNTY CODE 127	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Fourche Le Fave River	C. OTHER SPECIAL	Y 24 03/14/2018
(7) FACILITY CARRIED	SH 28-Scott Co.		
(9) LOCATION	1.7 M W OF HARVEY		
(11) MILEPOINT 16.586	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.82670	(17) LONGITUDE -93.79843		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	5
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(59) SUPERSTRUCTURE	6
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(60) SUBSTRUCTURE	6
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	5
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN 8	(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 1961	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	2
(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	57.0
(29) AVERAGE DAILY TRAFFIC 280	(19) BYPASS DETOUR LENGTH 14	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	34.0
(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.) 101	(49) STRUCTURE LENGTH (ft.) 453	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 1 RIGHT 1		(68) DECK GEOMETRY	5
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 24.0		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 28.5		(71) WATERWAY ADEQUACY	5
(32) APPROACH ROADWAY WIDTH (ft.) 24.0		(72) APPROACH ROADWAY ALIGNMENT	7
(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.) 25.9		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.) 000		SUFFICIENCY RATING	84.0 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	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	07
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 366	(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.)	000
		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
		(40) NAV HORIZONTAL CLEARANCE (ft.)	0000

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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
<b>12 - Reinforced Concrete Deck</b>	1- Ben.	10824	sq. ft.	9166	1603	55	0
	-Numerous shallow spalls and delaminated areas on the driving surface of the deck. -Span # 2, 3, 5 & 6 have shallow spalls that expose reinforcing steel. -Numerous shallow spalls adjacent to the sliding plates. -The previous repairs in the Right gutter have areas that appear to be delaminated. -Isolated hairline transverse cracks at random spacing.						
1080 - Delamination/Spall/Patched Area		1279		0	1266	13	0
1090 - Exposed Rebar		42		0	0	42	0
1130 - Cracking (RC and Other)		337		0	337	0	0
<b>107 - Steel Open Girder/Beam</b>	1- Ben.	2255	ft.	0	2106	149	0
	-Superstructure has areas of active corrosion with flaking rust at the ends of beams and adjacent to the deck drains. -The ends of the beams are rusted where water leaks through the deck joints. -Span 3, Beam 5 has active corrosion along the top flange where water runs on the beam from the deck drain. -The paint system has numerous areas with flaking paint and rust showing through. -No visible cracks at this inspection.						
1000 - Corrosion		2255		0	2106	149	0
515 - Steel Protective Coating		157379	sq. ft.	0	0	156361	1018
3440 - Effectiveness (Steel Protective Coatings)		157379		0	0	156361	1018
<b>205 - Reinforced Concrete Column</b>	1- Ben.	2	each	0	1	1	0
	-Medium abrasion at the base of the columns. -Column # 2 has areas of concrete deterioration and a previous patched area that appears to be sound at this inspection.						
1190 - Abrasion/Wear (PSC/RC)		2		0	1	1	0
<b>210 - Reinforced Concrete Pier Wall</b>	1- Ben.	132	ft.	18	99	15	0
	-The base of Bent 3, Span 3 has minor areas of concrete deterioration and minor section loss at the water line. -Medium abrasion at the base of the pier walls typical.						
1080 - Delamination/Spall/Patched Area		15		0	0	15	0
1190 - Abrasion/Wear (PSC/RC)		99		0	99	0	0
<b>215 - Reinforced Concrete Abutment</b>	1- Ben.	108	ft.	94	7	7	0
	-East Abutment North wing wall has areas of hairline map cracking and delamination with efflorescence present. Vertical cracks in the abutments typical. 8' efflorescence CS 2 bt 9						
1080 - Delamination/Spall/Patched Area		7		0	0	7	0
1130 - Cracking (RC and Other)		7		0	7	0	0



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## Bridge Inspection Report

## Element Inspection

<b>220 - Reinforced Concrete Pile Cap/Footing</b>	1- Ben.	40	ft.	33	0	7	0
-Previous flooding has caused large scour holes at this structure in the past. Scour holes have been filled in by maintenance forces since the last inspection. -Bent # 5 old footing formwork is exposed on the right side. No apparent undermining of the footing at this inspection.							
6000 - Scour		7		0	0	7	0
<b>234 - Reinforced Concrete Pier Cap</b>	1- Ben.	175	ft.	145	16	14	0
-Bent # 3 left has a 12" spall with exposed reinforcing steel. -Bent 4 Right side has concrete deterioration with no exposed reinforcing steel at the top of cap. -Bent 4 cap has a horizontal delaminated area under Bay 3. -Bent 5 Right side has shallow spalling with exposed reinforcing steel at the end of the cap that is approximately 20" tall. Bent # 5 Beam # 2 has a concrete delamination under the bearing of the beam. -Bent 6 cap has vertical cracking on the Left and Right ends of the cap with efflorescence. Map cracking with efflorescence under beam # 3 and a vertical crack with efflorescence under beam # 2. -Bent # 7 has a softball size spall with exposed reinforcing steel adjacent to beam # 4. The right end of the cap has a vertical crack with efflorescence under Beam # 5. -Bent 8, Right top side of the cap has minor concrete deterioration with minor section loss. -Ends of intermediate bent caps have light to medium scale with minor deterioration where the water leaks on the caps through the sliding plate expansion joints.							
1080 - Delamination/Spall/Patched Area		9		0	0	9	0
1090 - Exposed Rebar		3		0	0	3	0
1120 - Efflorescence/Rust Staining		15		0	13	2	0
1130 - Cracking (RC and Other)		3		0	3	0	0
<b>305 - Assembly Joint without Seal</b>	1- Ben.	216	ft.	205	0	11	0
-Shallow spalling adjacent to the sliding plates. -The sliding plate at Bent 9 appears to have been repaired since the last inspection and is not noisy at this inspection.							
2370 - Metal Deterioration or Damage		11		0	0	11	0
<b>311 - Movable Bearing</b>	1- Ben.	40	each	0	40	0	0
-Bearings have active corrosion showing through the rust inhibitor at this inspection.							
1000 - Corrosion		40		0	40	0	0
515 - Steel Protective Coating		40	sq. ft.	0	0	0	40
3440 - Effectiveness (Steel Protective Coatings)		40		0	0	0	40
<b>313 - Fixed Bearing</b>	1- Ben.	40	each	0	35	5	0
-Bearings have active corrosion showing through the rust inhibitor at this inspection.							
1000 - Corrosion		40		0	35	5	0
515 - Steel Protective Coating		40	sq. ft.	0	0	0	40
3440 - Effectiveness (Steel Protective Coatings)		40		0	0	0	40

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#### Element Inspection

330 - Metal Bridge Railing	1- Ben.	906	ft.	894	0	4	8
	-The bridge railing on the Right side of Span # 3 has an area of collision damage that has created out of plane bending in an area approximately 12' long, and has completely displaced one concrete post and fractured the adjacent post at the base causing it to lean out of plumb. Span # 7 has one post that is fractured at the base on the Right side due to apparent collision damage.						
7000 - Damage		12		0	0	4	8
515 - Steel Protective Coating		1812	sq. ft.	0	0	1812	0

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**Bridge Inspection Report**

**Pictures**

PHOTO 1

Description

PHOTO 2

Description

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**Bridge Inspection Report**

**Sketches**



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### Bridge Inspection Report

## Maintenance Needs

Date Reported: 4/16/2012 12:00:00 AM

Priority: D - Routine

Work Code: Repair

---

### Deficiency Description:

Deck

The driving surface of the deck has shallow spalls with a few areas of exposed reinforcing steel in Spans # 3 and # 6 with numerous delaminated areas. Sealable transverse cracking in random locations.

### Work Description:

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Date Repairs Completed:

Maintenance Comments:

---

### Stage: Assigned



PHOTO 1      Description      Span # 6 spalling with exposed reinforcing steel on the driving surface of the deck.

### Stage: Assigned



PHOTO 2      Description      Span # 3 right spalling with exposed reinforcing steel on the driving surface of the deck.

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### Bridge Inspection Report

## Maintenance Needs

Date Reported: 4/16/2012 12:00:00 AM

Priority: D - Routine

Work Code: Repair

---

### Deficiency Description:

Substructure

Minor concrete deterioration in the intermediate bent caps with a few shallow spalls that expose the reinforcing steel. The monolithic Northeast wing wall has an area of concrete deterioration with efflorescence and mapcracking.

### Work Description:

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Date Repairs Completed:

Maintenance Comments:

---

Stage: Assigned



PHOTO 1      Description      Bent # 9 left cracking with efflorescence in the top of the wing wall.

Stage: Assigned

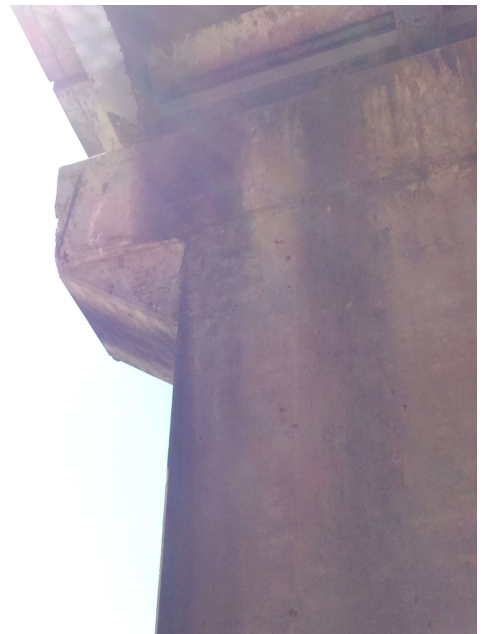


PHOTO 2      Description      Bent # 5 Right side of the has shallow spalling with exposed reinforcing.

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### Bridge Inspection Report

## Maintenance Needs

**Date Reported:** 4/16/2012 12:00:00 AM

**Priority:** D - Routine

**Work Code:** Repair

---

### Deficiency Description:

Superstructure

Superstructure has isolated areas with active corrosion with layers of flaking rust at the ends of beams and adjacent to the deck drains.

### Work Description:

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**Date Repairs Completed:**

**Maintenance Comments:**

---

### Stage: Assigned



PHOTO 1      Description      Bent # 2 active corrosion over the intermediate bents due to joint leakage.

### Stage: Assigned



PHOTO 2      Description      Span # 4 active corrosion in Beam # 5 at the deck drain.



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### Maintenance Needs

Date Reported: 3/3/2014 12:00:00 AM

Priority: D - Routine

Work Code: Repair

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#### Deficiency Description:

Bearings

The bearings have active corrosion showing through the rust inhibitor.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Assigned



PHOTO 1      Description      The bearings have active corrosion from apparent water leakage through the deck joints.