

# Bridge Inspection Report

**05037**  
**SH 164-SEC 0**  
**over**  
**I 40-SEC 21**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

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Inspector:

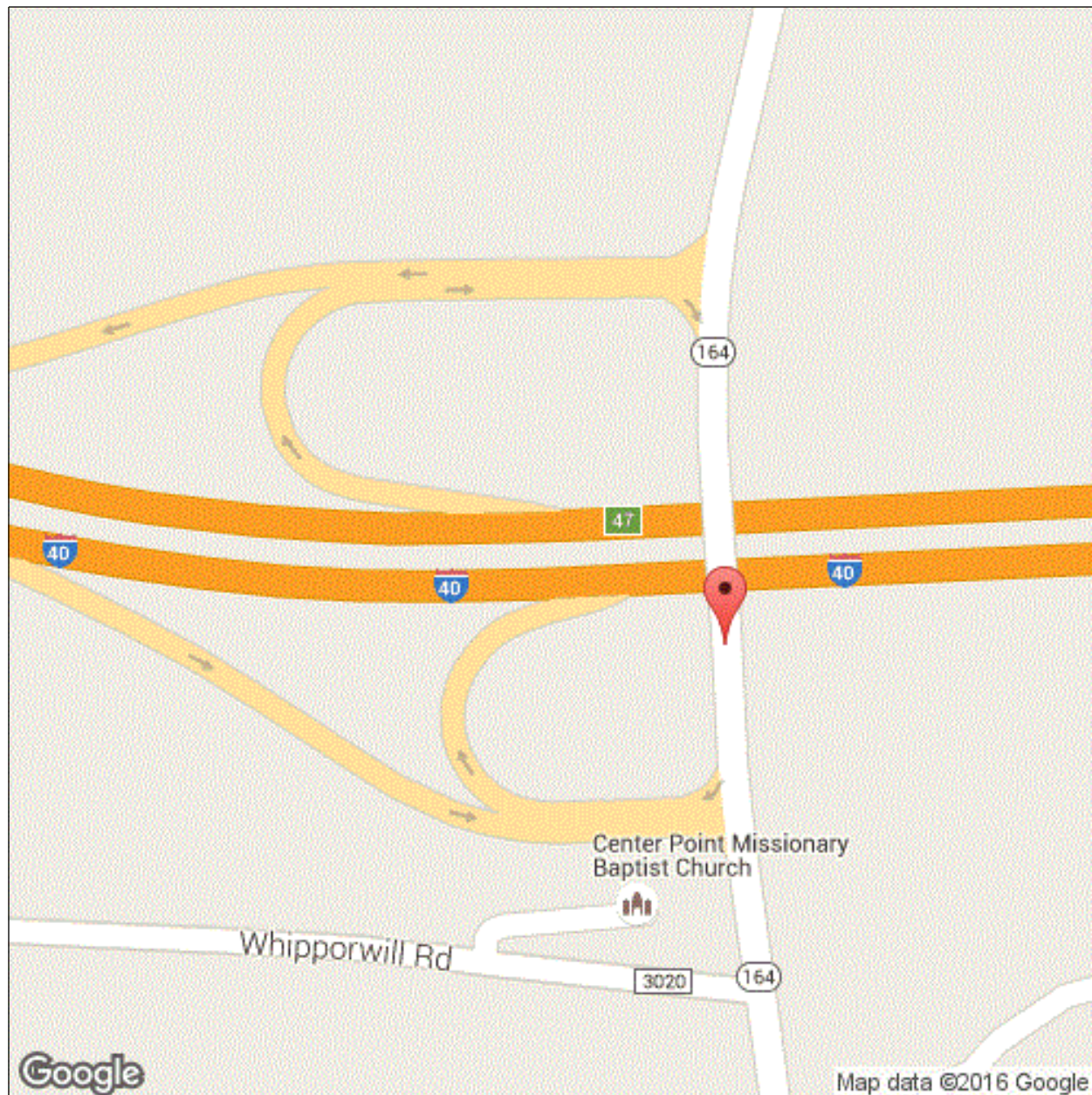
Structure Number: 05037

Inspection Date:

Facility Carried: SH 164-SEC 0

## Bridge Inspection Report

### Location Map



Latitude: 35.49696

Longitude: -93.66061



Inspector:

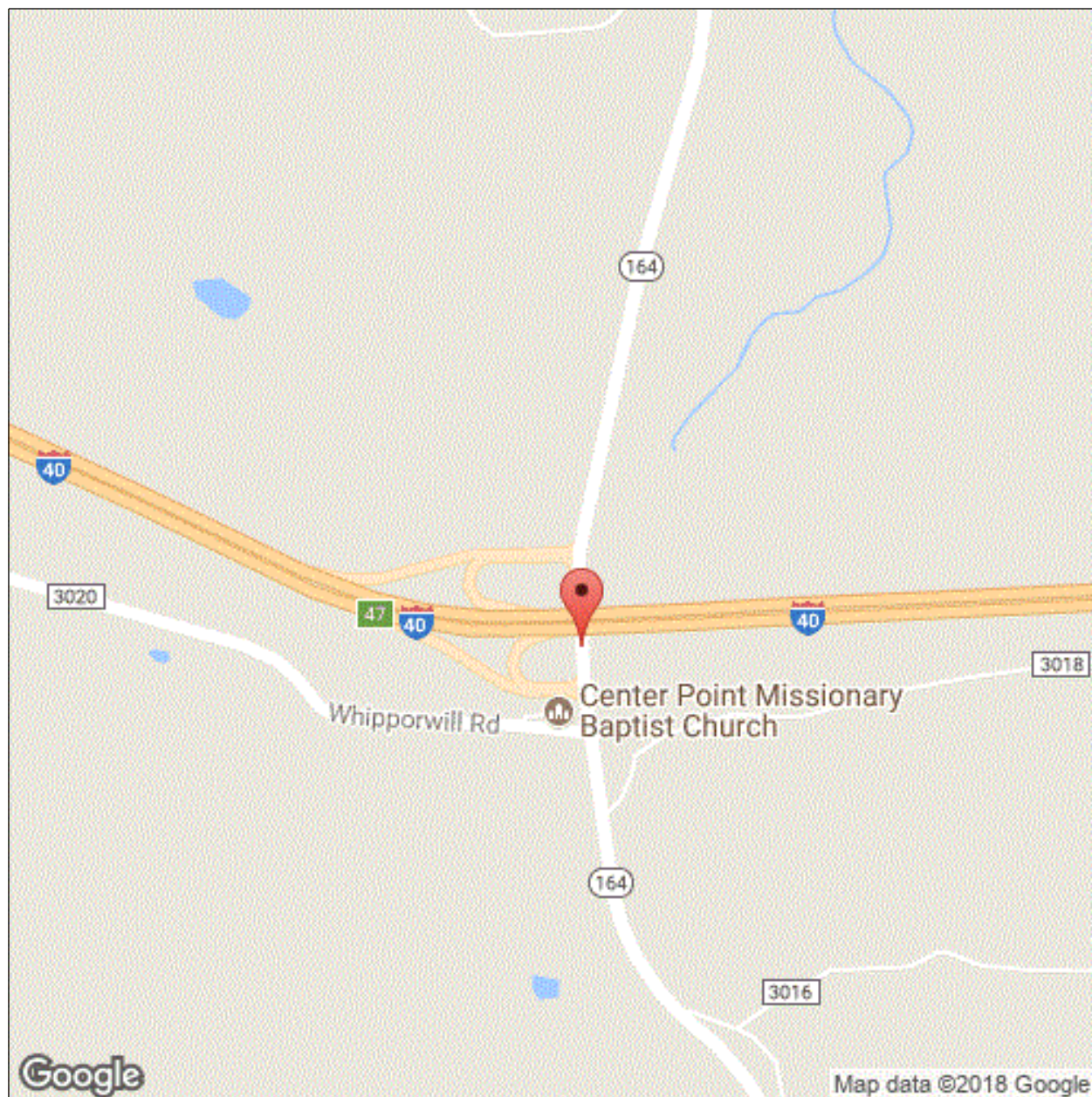
Structure Number: 05037

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## Bridge Inspection Report

### Location Map



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Longitude: -93.66061



Inspector:

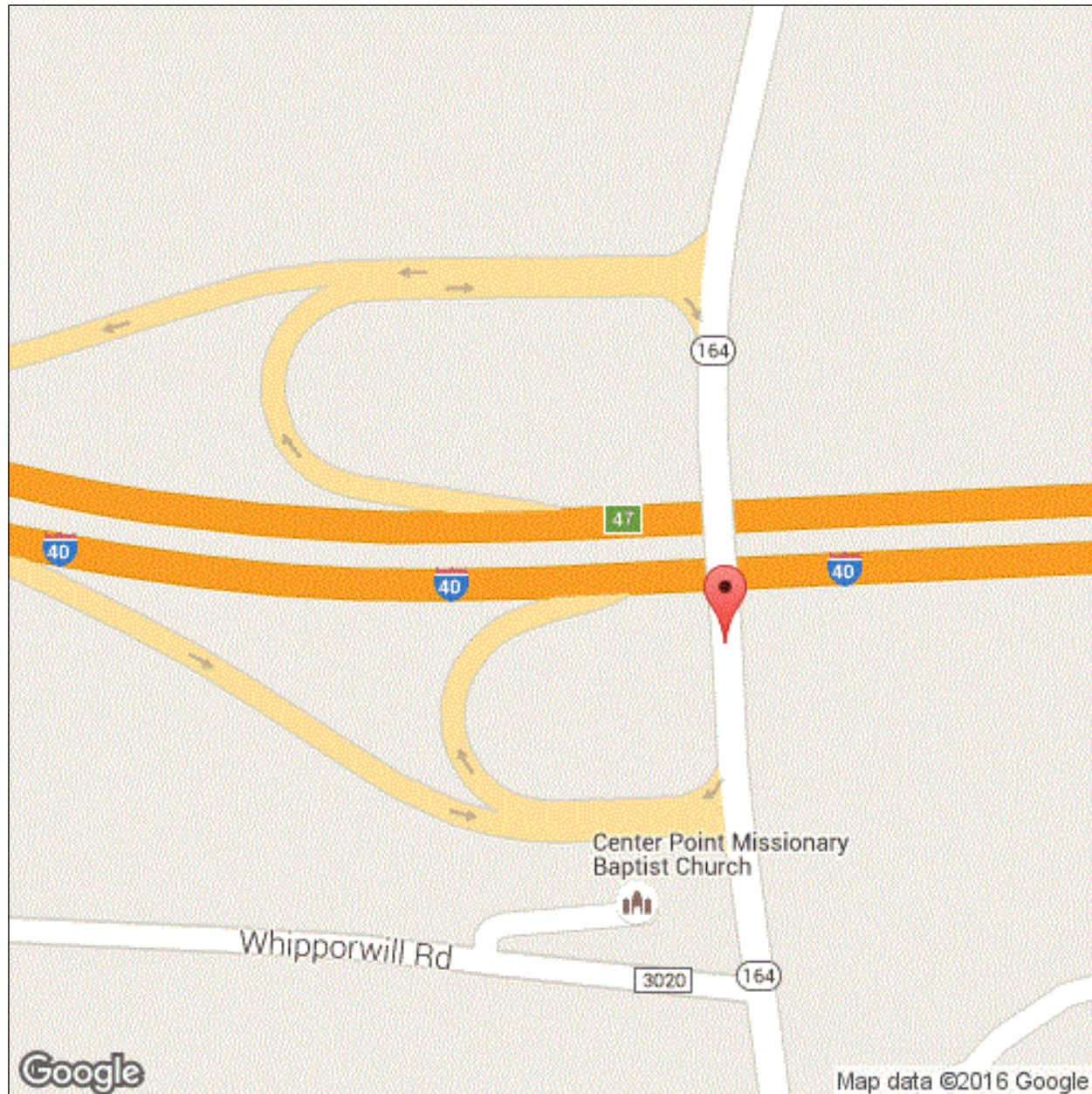
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## Bridge Inspection Report

### Location Map



Latitude: 35.49696

Longitude: -93.66061

**Inspector:**

**Inspection Date:**

**Structure Number:** 05037

**Facility Carried:** SH 164-SEC 0

**Bridge Inspection Report**

**Executive Summary**



Inspector:

Structure Number: 05037

Inspection Date:

Facility Carried: SH 164-SEC 0

## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	02/06/2018
(8) STRUCTURE NUMBER	05037	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 164 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	08 (3) COUNTY CODE 071	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	I 40-SEC 21	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 164-SEC 0		
(9) LOCATION	4.42 MI N US 64 JCT		
(11) MILEPOINT 4.419	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.49696	(17) LONGITUDE -93.66061		
(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: 4 - Steel continuous		(59) SUPERSTRUCTURE 7	(60) SUBSTRUCTURE 6
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(61) CHANNEL & CHANNEL PROTECTION	N (62) CULVERT N
(44) STRUCTURE TYPE, APPROACH SPANS			
A) KIND OF MATERIAL/DESIGN: 3 - Steel			
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder			
(45) NUMBER OF SPANS IN MAIN 2	(46) NUMBER OF APPROACH 2		
(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 1969	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	4
(42) TYPE OF SERVICE ON 6 UNDER 1		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 04		(64) OPERATING RATING	60
(29) AVERAGE DAILY TRAFFIC 490	(19) BYPASS DETOUR LENGTH 18	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	36
(109) AVERAGE DAILY TRUCK TRAFFIC 8		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 92	(49) STRUCTURE LENGTH (ft.) 276	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	6
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 34.1		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	5
(52) DECK WIDTH, OUT-TO-OUT (ft.) 37		(71) WATERWAY ADEQUACY	N
(32) APPROACH ROADWAY WIDTH (ft.) 34.1		(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:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.) 34.1		36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.) H 16.33		36D) APPROACH GUARDRAIL ENDS:	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) H 30		(113) SCOUR CRITICAL BRIDGES	N
(56) MIN LATERAL UNDER CLEARANCE (ft.) 27		SUFFICIENCY RATING 96.3	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 1472	(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	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

Inspector:

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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.	10303	sq. ft.	6000	4303	0	0
	MINOR TO MODERATE DELAM, CRACKING & SCALE THROUGHOUT. MINOR SPALLING W / REBAR EXPOSED IN SPAN 3. MINOR CRACKING IN SOFFIT & OVERHANGS.						
1080 - Delamination/Spall/Patched Area		200			200		
1090 - Exposed Rebar		100			100		
1130 - Cracking (RC and Other)		3000			3000		
1190 - Abrasion/Wear (PSC/RC)		1003			1003		
<b>107 - Steel Open Girder/Beam</b>	1- Ben.	1644	ft.	1632	12	0	0
	COND. 1 - 1632 LF - GOOD. COND. 2 - 12 LF - MINOR RUST IN HAUNCHED AREAS OF BEAMS AT PIERS 2 & 4						
1000 - Corrosion		12			12		
515 - Steel Protective Coating		13354	sq. ft.	13342	12	0	0
3440 - Effectiveness (Steel Protective Coatings)		12			12		
<b>161 - Steel Pin and Pin &amp; Hanger Assembly or both</b>	1- Ben.	6	each	5	1	0	0
	COND. 1 - 5 EA - SOME MINOR RUST ON ALL PINS, BEAMS & HANGER BARS COND. 2 - 1 EA - MINOR TO MODERATE RUST & PACK RUST BETWEEN PLATES & BEAM ON BEAM 6 BOTTOM PIN. ALL PINS ULTRA SOUNDED.						
1000 - Corrosion		1			1		
515 - Steel Protective Coating		24	sq. ft.	23		1	
<b>205 - Reinforced Concrete Column</b>	1- Ben.	6	each	4	2	0	0
	COND. 1 - 4 EA - GOOD COND. 2 - 2 EA - MINOR TO MODERATE DELAM, CRACKING & SPALLING W / REBAR EXPOSED IN COLUMN 1 AT PIER 3 & COLUMN 2 AT PIER 4. SPALLING DUE TO REBAR TOO CLOSE TO SURFACE.						
1090 - Exposed Rebar		2			2		
<b>215 - Reinforced Concrete Abutment</b>	1- Ben.	90	ft.	90			
	MINOR VERTICAL CRACKING IN THE BACK WALLS.						
<b>234 - Reinforced Concrete Pier Cap</b>	1- Ben.	106	ft.	82	24	0	0
	COND. 1 - 90 LF - MINOR VERTICAL CRACKING THROUGHOUT COND. 2 - 24 LF - MINOR TO MODERATE DELAM, HORIZONTAL CRACKING & SCALE IN CAPS 3 & 4. MINOR DELAM, CRACKING, SCALE & SPALLING W / REBAR EXPOSED IN BK. FACES OF CAPS 2 & 4						
1090 - Exposed Rebar		4			4		



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## Element Inspection

1130 - Cracking (RC and Other)		20			20		
<b>302 - Compression Joint Seal</b>	1- Ben.	170	ft.	0	92	10	68
	COND. 2 - 92 LF - MINOR TO MODERATE DELAM & CRACKING IN SEALS AT JOINTS 1 & 5 COND. 3 - 10 LF - MINOR TO MODERATE DELAM, CRACKING & TEARING IN SEAL AT JOINT 3. COND. 4 - 68 LF - SEALS MISSING AT JOINTS 2 & 4						
2330 - Seal Damage		170			92	10	68
<b>311 - Movable Bearing</b>	1- Ben.	18	each	8	6	4	0
	COND. 1 - 8 EA - GOOD COND. 2 - 6 EA - MINOR RUST ON BEARINGS AT PIER 2. COND. 3 - 4 EA - MINOR TO MODERATE RUST & PACK RUST ON BEARINGS AT PIER 4. BEARING 3 BK. SIDE, BEARINGS 2, 3 & 5 AHD. SIDE.						
1000 - Corrosion		10			6	4	
515 - Steel Protective Coating		72	sq. ft.	32		24	16
<b>313 - Fixed Bearing</b>	1- Ben.	24	each	14	10	0	0
	COND. 1 - 14 EA - GOOD. COND. 2 - 10 EA - MINOR TO MODERATE RUST ON SOME BEARINGS AT ABUTMENTS 1 & 5 AND PIER 2.						
1000 - Corrosion		10			10		
515 - Steel Protective Coating		96	sq. ft.	56		40	
<b>321 - Reinforced Concrete Approach Slab</b>	1- Ben.	2450	sq. ft.	2000	450	0	0
	Several moderate cracks in approach on south end.						
1130 - Cracking (RC and Other)		450			450		
<b>330 - Metal Bridge Railing</b>	1- Ben.	548	ft.	548			
	Aluminum Rail						
<b>331 - Reinforced Concrete Bridge Railing</b>	1- Ben.	548	ft.	548			
	MINOR SCALE IN CONCRETE.						

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## Bridge Inspection Report

## Pictures

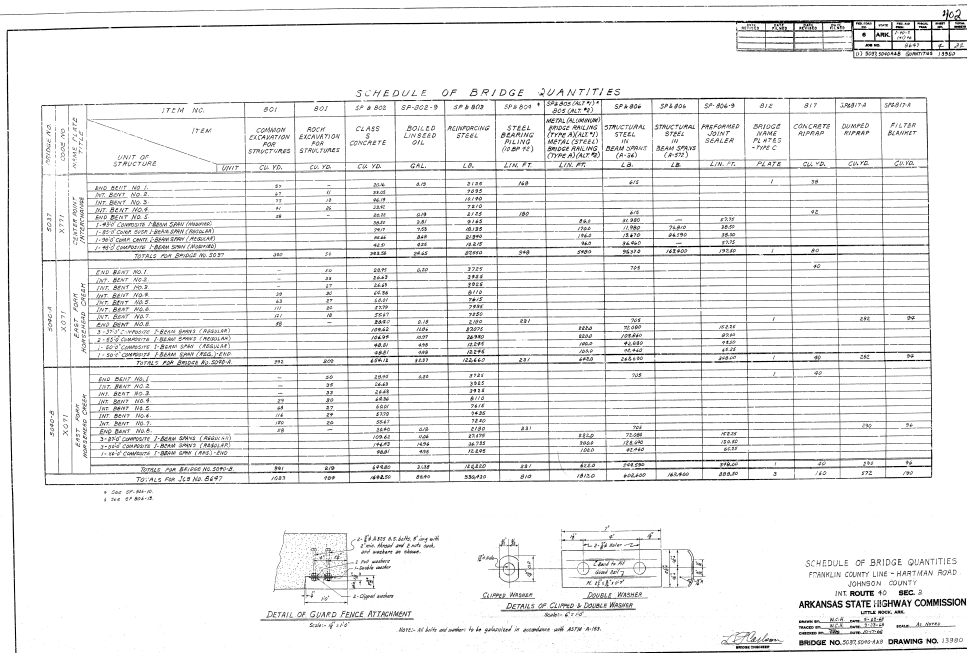


PHOTO 1

Description Bridge Quantities

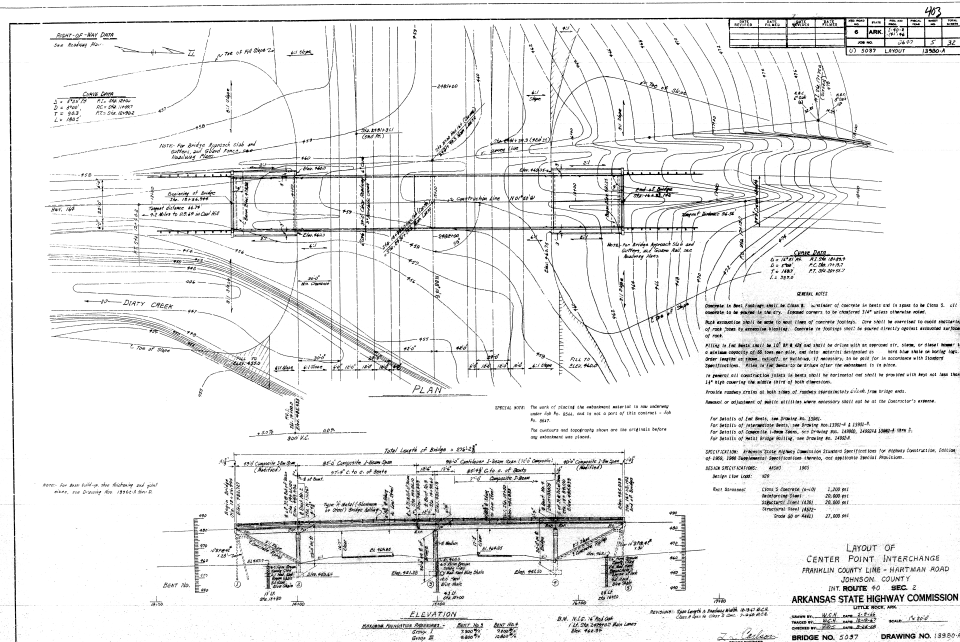


PHOTO 2

Description Bridge Layout



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## Bridge Inspection Report

## Pictures

PHOTO 2

Description

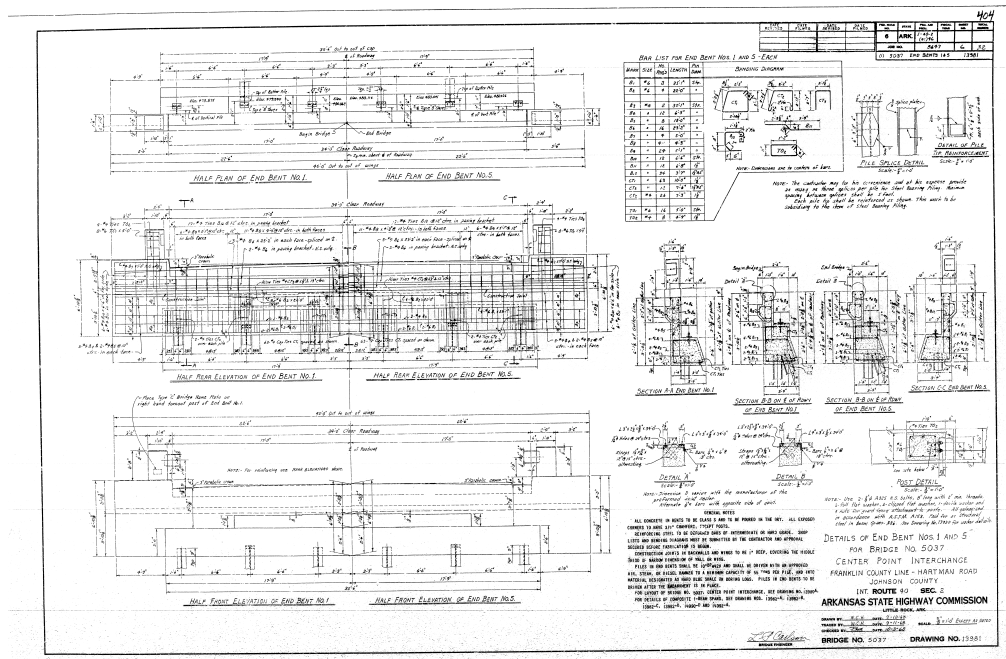


PHOTO 3

Description

Inspector:

Inspection Date:

Structure Number: 05037

Facility Carried: SH 164-SEC 0

## Bridge Inspection Report

## Pictures

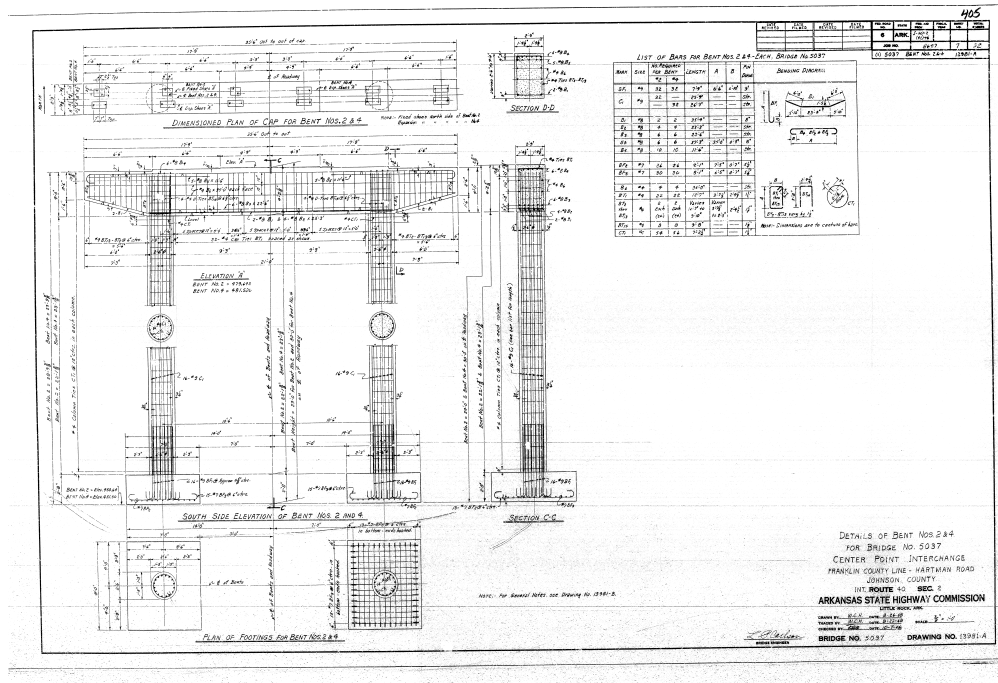


PHOTO 4

Description

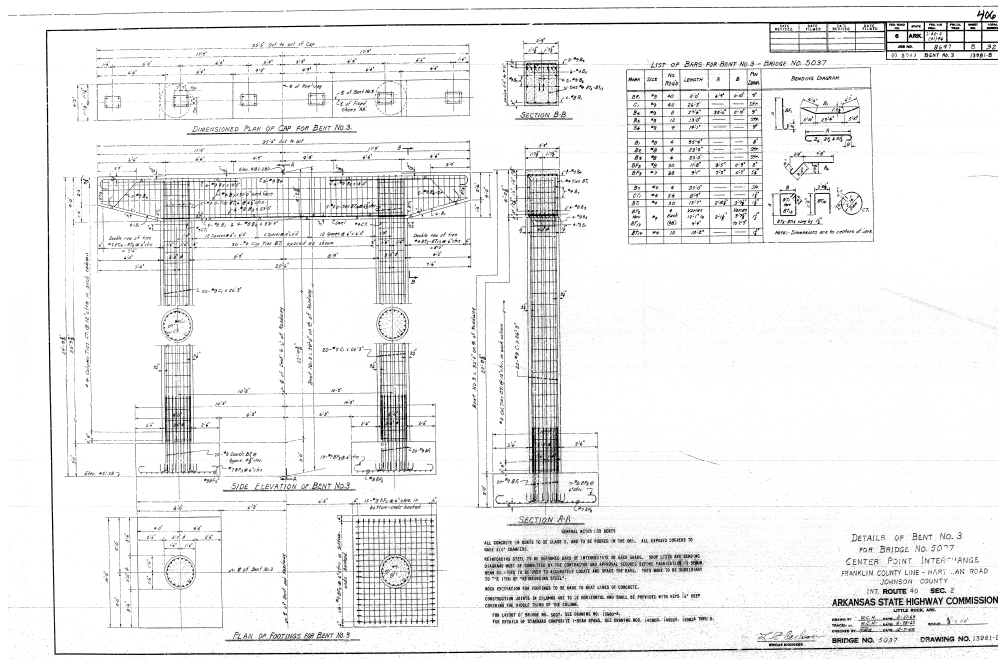


PHOTO 5

Description



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## Bridge Inspection Report

### Pictures

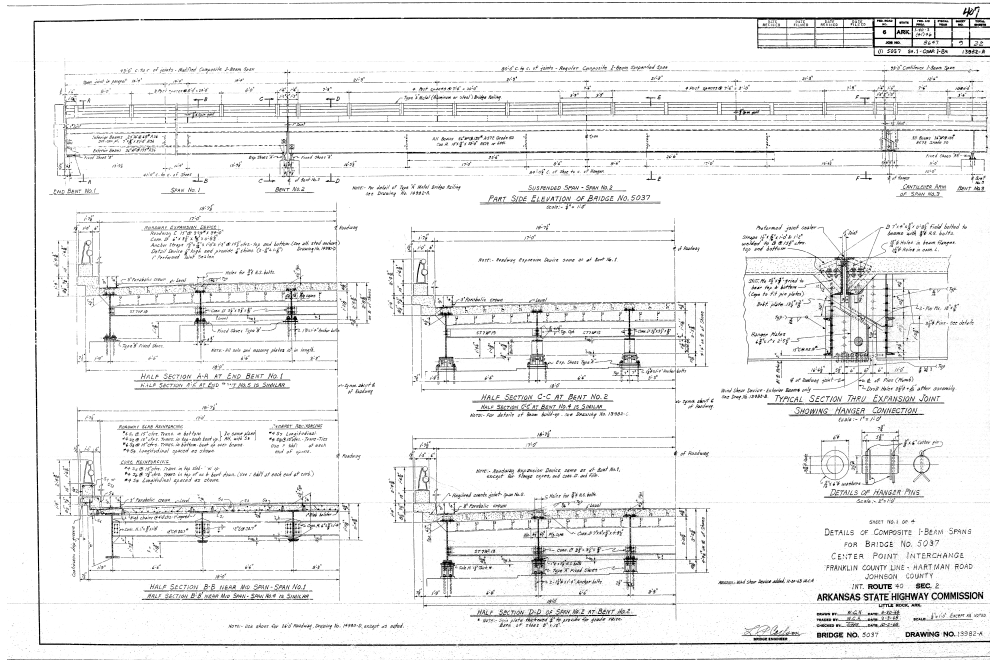


PHOTO 6

Description

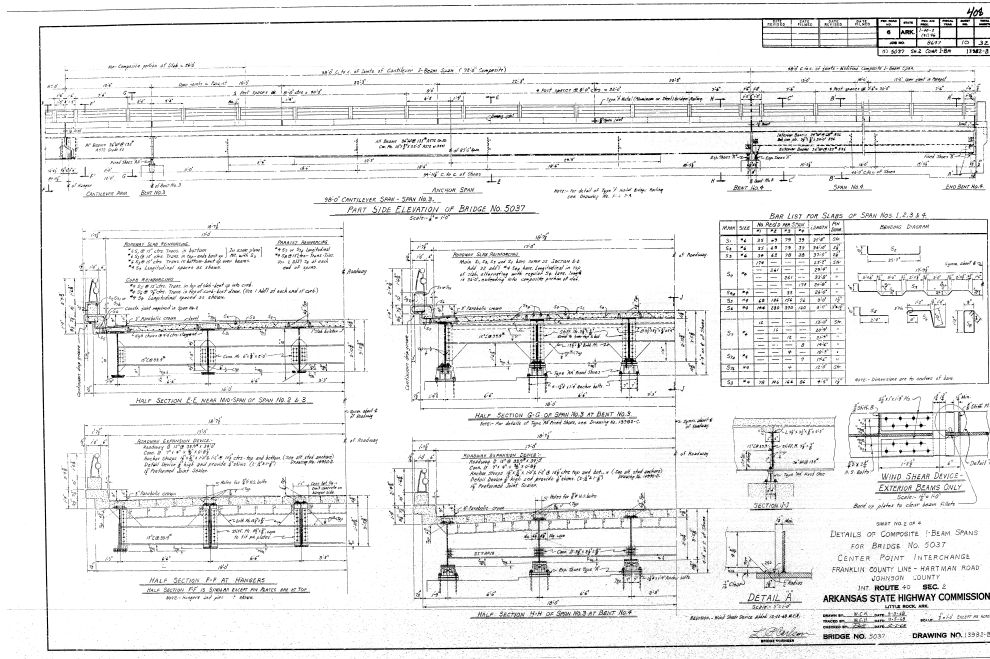


PHOTO 7

Description

Inspector:  
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### Bridge Inspection Report

## Pictures

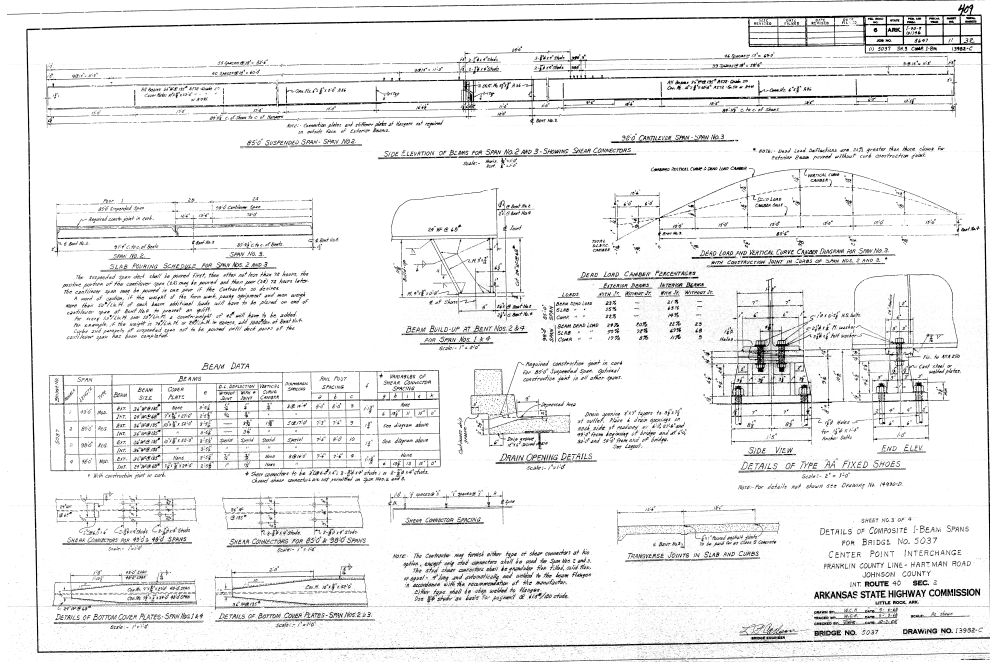


PHOTO 8

Description

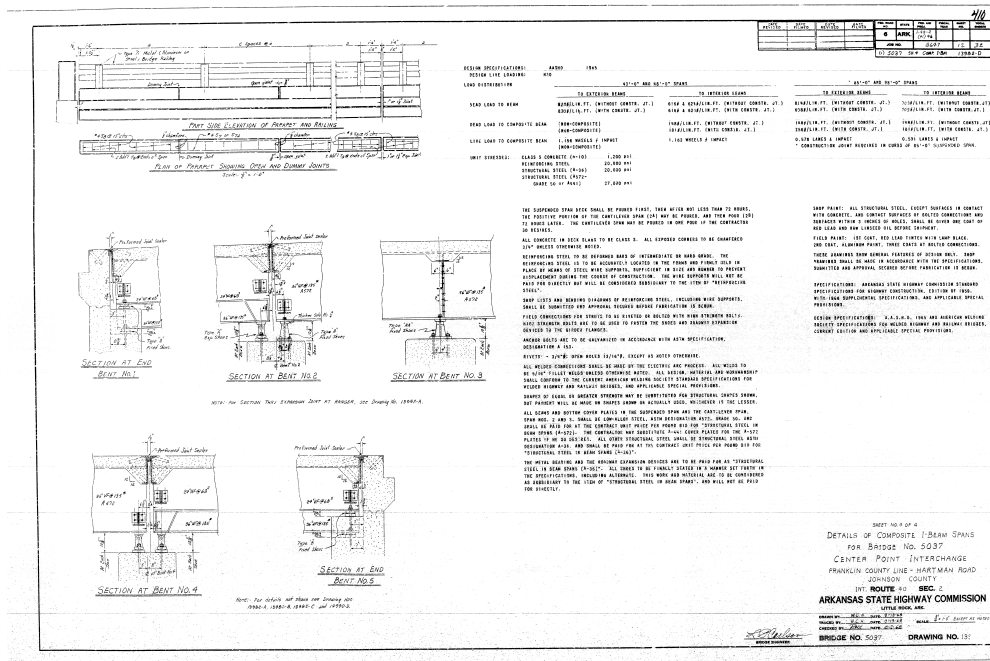


PHOTO 9

Description

**Inspector:**

**Inspection Date:**

**Structure Number:** 05037

**Facility Carried:** SH 164-SEC 0

**Bridge Inspection Report**

**Sketches**



Inspector:

Structure Number: 05037

Inspection Date:

Facility Carried: SH 164-SEC 0

### Bridge Inspection Report

## Maintenance Needs

Date Reported: 1/11/2012 12:00:00 AM

Priority: D - Routine

Work Code:

---

### Deficiency Description:

MINOR DELAM, CRACKING, SCALING & SPALLING THROUGHOUT DECK. SPALLING W / REBAR EXPOSED IN SPAN 3.

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Monitor



PHOTO 1      Description      Typ. Delam, Cracking, Scaling & Spalling W / Rebar Exposed in Deck. Mainly in Span 3.

Stage: Monitor



PHOTO 2      Description      Typ. Delam, Cracking, Scaling & Spalling in Deck.

Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Stage: Monitor



PHOTO 3    Description    Cracking & Scaling in Gutters.

Stage: Monitor



PHOTO 4    Description    Typ. Cracking in Deck.



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### Bridge Inspection Report

## Maintenance Needs

Date Reported: 1/11/2012 12:00:00 AM

Priority: C - Important

Work Code:

---

### Deficiency Description:

Deck joints at joint #s 2 and 4  
Joint material is missing.

### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Monitor



PHOTO 1    Description    Seals Missing at Joints.



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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 1/11/2012 12:00:00 AM

Priority: C - Important

Work Code:

---

#### Deficiency Description:

Bearing # 4, aheadside of pier # 4.  
Shear key is missing from right side of bearing pin,

#### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Monitor



PHOTO 1      Description      Shear key missing from Rt. Side of bearing pin at bearing 4 Ahd. Side pier 4.

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 02/06/2018

Priority: D - Routine

Work Code:

---

#### Deficiency Description:

MINOR DELAM, CRACKING & SPALLING W / REBAR EXPOSED IN COLUMN 1 AT PIER 3 & COLUMN 2 AT PIER 4.  
SPALLING DUE TO REBAR TOO CLOSE TO SURFACE.

#### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Open



PHOTO 1      Description      Delam, Cracking, Scaling & Spalling  
W / Rebar Exposed in Column 2 at Pier  
4.

Inspector:

Structure Number: 05037

Inspection Date:

Facility Carried: SH 164-SEC 0

### Bridge Inspection Report

#### Maintenance Needs

Date Reported: 02/08/2018

Priority: D - Routine

Work Code:

---

#### Deficiency Description:

MINOR DELAM, CRACKING & SPALLING W / REBAR EXPOSED IN BK. FACE OF CAP 2 & BT FACE OF CAP 4.

#### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Open



PHOTO 1    Description