

# Bridge Inspection Report

**03339**  
**SH 28-Scott Co.**  
**over**  
**Sulphur Creek**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

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Inspector:

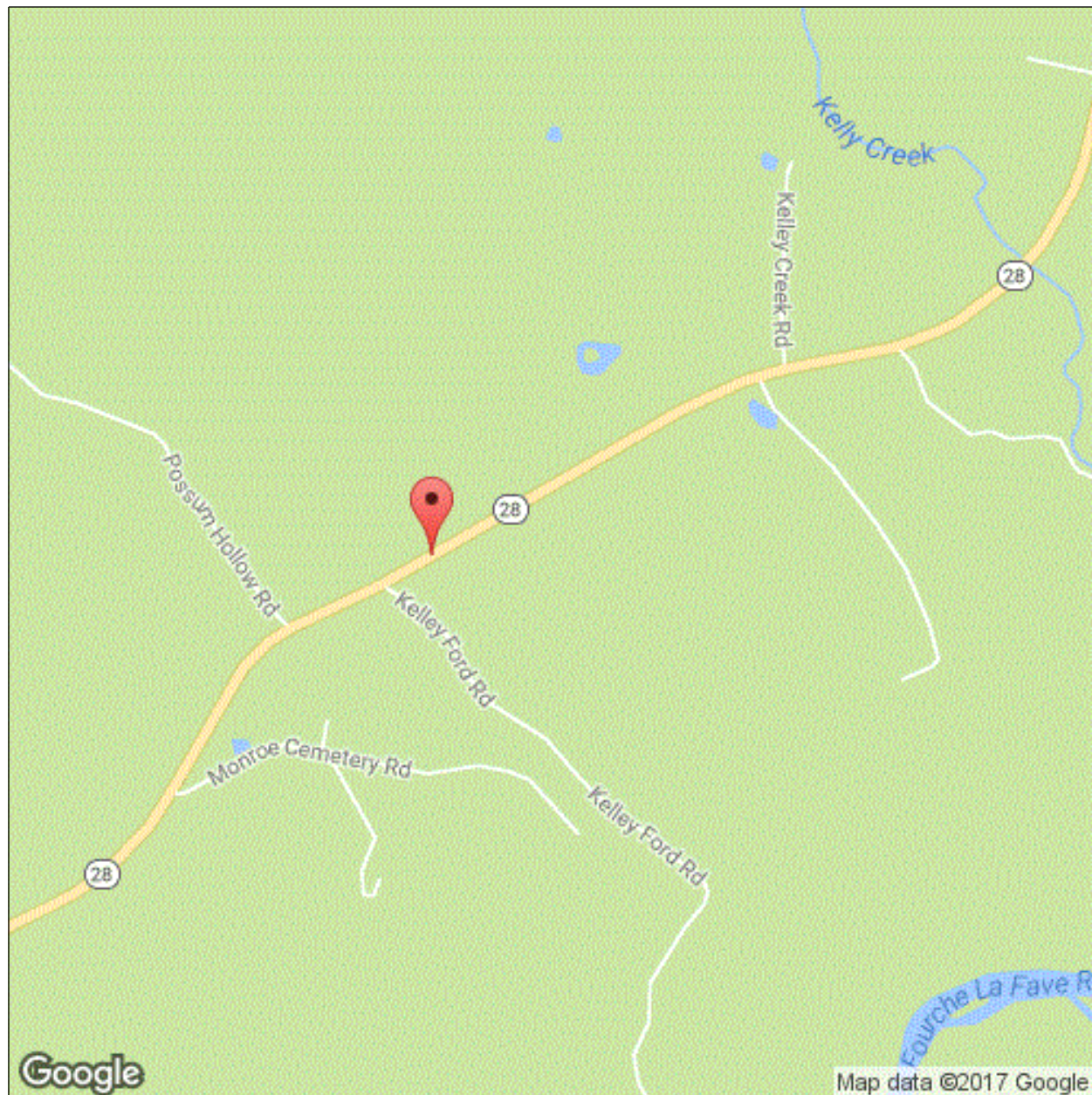
Structure Number: 03339

Inspection Date:

Facility Carried: SH 28-Scott Co.

## Bridge Inspection Report

### Location Map



Latitude: 34.85839

Longitude: -93.77443



Inspector:

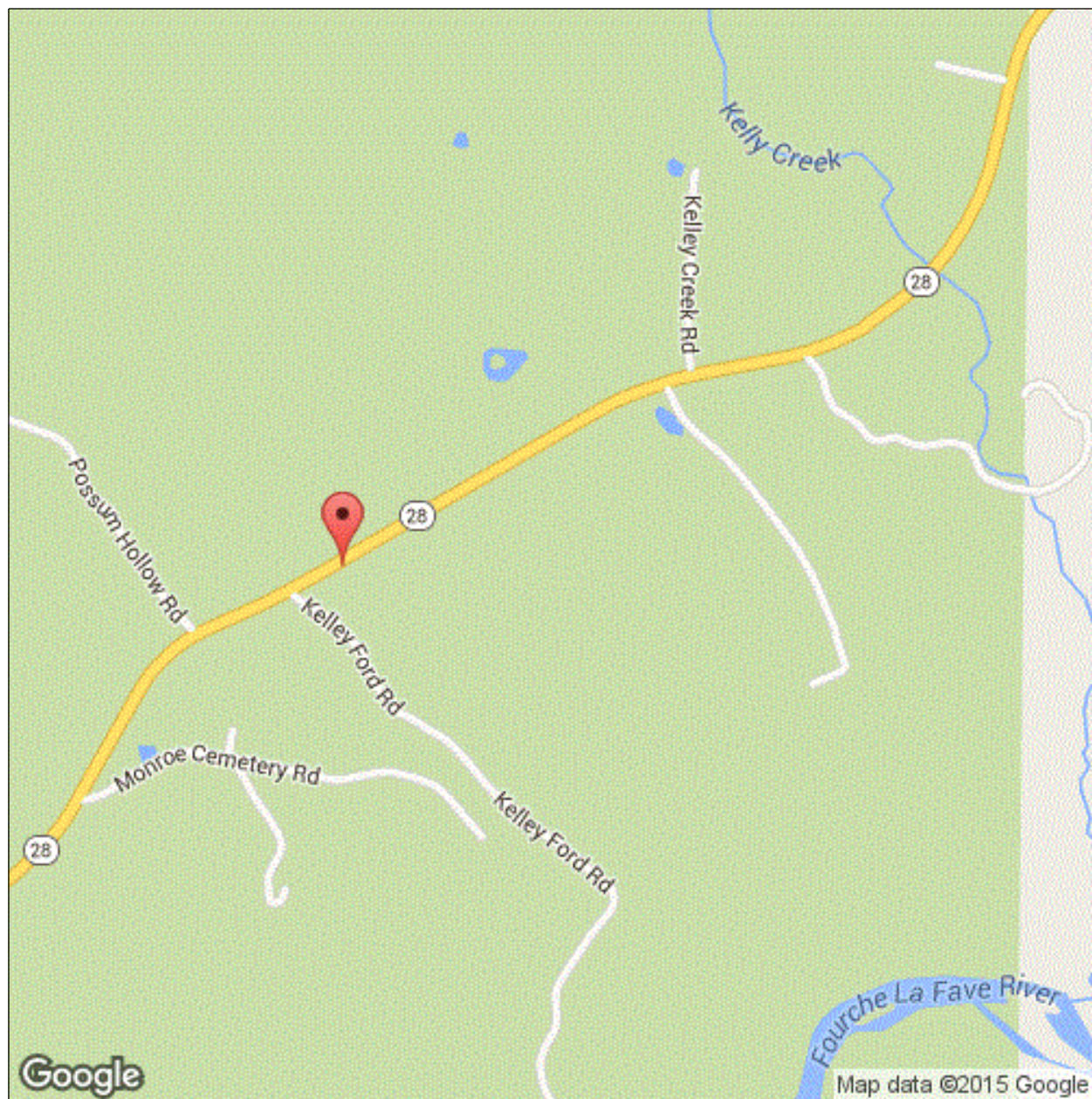
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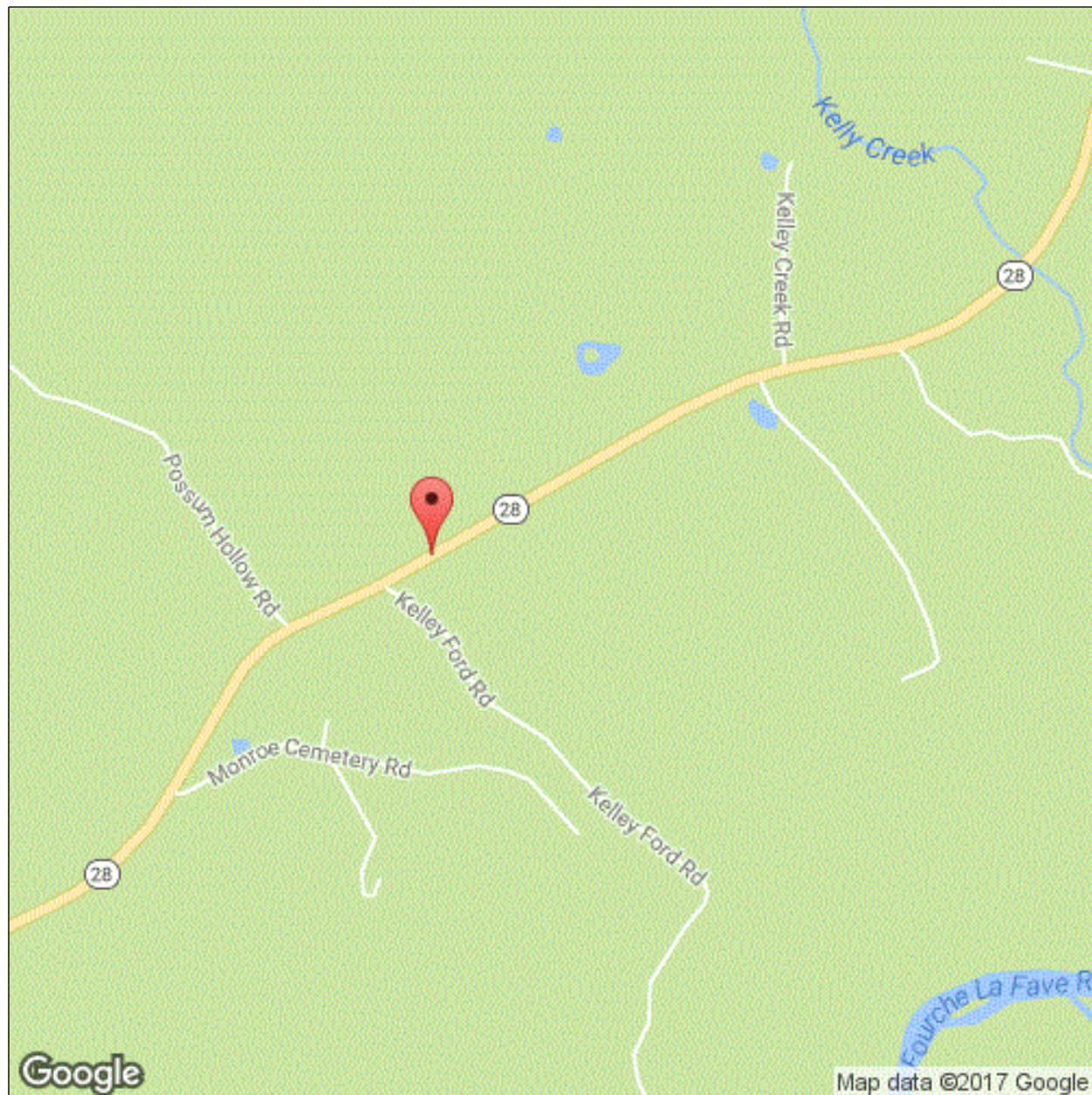
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**Bridge Inspection Report**

**Executive Summary**

12/06/2017 JPB & SPC-Routine Inspection conducted on this date.

12/18/2015 - JCJ & JML - Type 2 Underwater Inspection - Wading and probing during clear water conditions indicate that the footings at Bents # 2 & 3 are exposed at this inspection. Footings are constructed on solid rock channel that is exposed in areas with no apparent scour problems at this inspection.

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## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	12/06/2017
(8) STRUCTURE NUMBER	03339	(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	Sulphur Creek	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 28-Scott Co.		
(9) LOCATION	1.0 MI NE OF HARVEY		
(11) MILEPOINT 19.446	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.85839	(17) LONGITUDE -93.77443		
(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: 1 - Concrete		(59) SUPERSTRUCTURE	6 (60) SUBSTRUCTURE 6
B) TYPE OF DESIGN/CONSTR: 01 - Slab		(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 5	(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	48
(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	29.0
(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.) 28	(49) STRUCTURE LENGTH (ft.) 140	(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.)	26.5	(71) WATERWAY ADEQUACY	6
(32) APPROACH ROADWAY WIDTH (ft.)	27.9	(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.)	0	SUFFICIENCY RATING	76.7 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.)	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
<b>38 - Reinforced Concrete Slab</b>	1- Ben.	3360	sq. ft.	2271	1074	15	0
	-Concrete slab span with delaminated areas visible from the undersurface of the deck adjacent to the deck drains. -There are transverse, diagonal, and longitudinal cracks on the driving surface of the deck. -Light / medium abrasion on the driving surface. -Previous repairs are showing signs of deterioration but are still in place at this inspection.						
1080 - Delamination/Spall/Patched Area		44			44		
1090 - Exposed Rebar		1			1		
1130 - Cracking (RC and Other)		184			179	5	
1190 - Abrasion/Wear (PSC/RC)		860			850	10	
<b>205 - Reinforced Concrete Column</b>	1- Ben.	8	each	1	7	0	0
	-Light abrasion at the base of the columns at the water elevation. -One softball size spall with exposed reinforcing steel in the Lt column of Bent 2 and the Rt column of Bent 5 has a softball size spall with no exposed reinforcing steel.						
1080 - Delamination/Spall/Patched Area		1			1		
1090 - Exposed Rebar		1			1		
1190 - Abrasion/Wear (PSC/RC)		5			5		
<b>215 - Reinforced Concrete Abutment</b>	1- Ben.	60	ft.	60			
	-Abutments have no apparent noteworthy deficiencies at this inspection.						
<b>234 - Reinforced Concrete Pier Cap</b>	1- Ben.	102	ft.	88	11	3	0
	-Intermediate bent caps have water stains that indicate deck joint leakage. -Intermediate bent caps have vertical hairline cracks over the exterior face of the columns. -A few isolated horizontal hairline cracks located approximately 6" below the top of cap. -The Rt side of Bent 4 has a 12" delaminated area on the Span 4 side of cap. -The Lt side of Bent 5 has a 36" delaminated area on the Span 4 side of cap.						
1080 - Delamination/Spall/Patched Area		5			2	3	
1090 - Exposed Rebar		1			1		
1130 - Cracking (RC and Other)		8			8		
<b>330 - Metal Bridge Railing</b>	1- Ben.	280	ft.	210	70	0	0
	-The concrete bridge rail posts have isolated spalls and areas with cracking. -There are areas with a superficial rust coating in the metal bridge railing.						
1000 - Corrosion		70			70		



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### Pictures

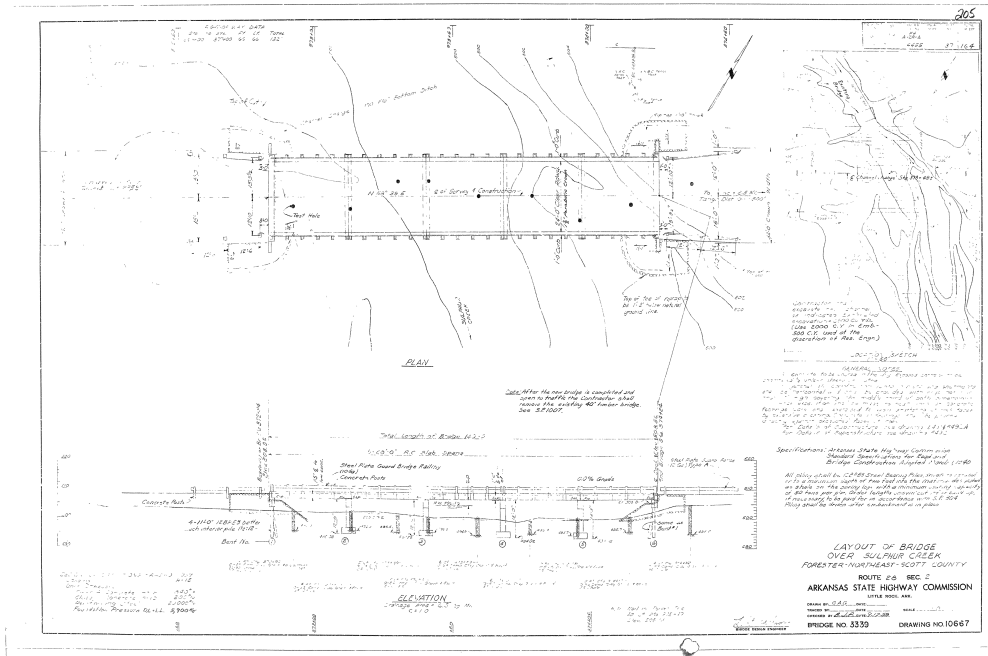


PHOTO 1

Description DRWG10667.TIF

PHOTO 2

Description DRWG10667.pdf

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**Bridge Inspection Report**

**Sketches**

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### Bridge Inspection Report

## Maintenance Needs

Date Reported: 12/18/2015

Priority: G - General/ Preventive maintenance

Work Code: Repair

### Deficiency Description:

Substructure Caps.

- Intermediate bent caps have water stains that indicate deck joint leakage.
- Intermediate bent caps have vertical hairline cracks over the exterior face of the columns.
- A few isolated horizontal hairline cracks located approximately 6" below the top of cap.
- The Rt side of Bent 4 has a 12" delaminated area on the Span 4 side of cap.
- The Lt side of Bent 5 has a 36" delaminated area on the Span 4 side of cap.

### Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1      Description      Intermediate bent caps have water stains that indicate deck joint leakage.

Stage: Assigned



PHOTO 2      Description      The Rt side of Bent 4 has a 12" delaminated area on the Span 4 side of cap.

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## Bridge Inspection Report

### Maintenance Needs

Stage: Assigned



PHOTO 3      Description      Intermediate bent caps have vertical hairline cracks over the exterior face of the columns.

Stage: Assigned



PHOTO 4      Description      The Lt side of Bent 5 has a 36" delaminated area on the Span 4 side of cap.



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#### Maintenance Needs

Date Reported: 12/18/2015

Priority: D - Routine

Work Code: Repair

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#### Deficiency Description:

Approach Roadway

The approach roadways have minor asphalt settlement at the bridge ends.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Assigned



PHOTO 1      Description      The approach roadways have minor asphalt settlement at the bridge ends. Bent 6 (East) bridge end pictured.

Stage: Assigned



PHOTO 2      Description      The approach roadways have minor asphalt settlement at the bridge ends. Bent 1 (West) bridge end pictured.