

# Bridge Inspection Report

**B3614**  
**I-40EB/Se51/L237.8**  
**over**  
**Spring Creek**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

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Inspector:

Inspection Date:

Structure Number: B3614

Facility Carried: I-40EB/Se51/L237.8

## Bridge Inspection Report

### Location Map



Latitude: 35.015850

Longitude: -90.834091

Inspector:

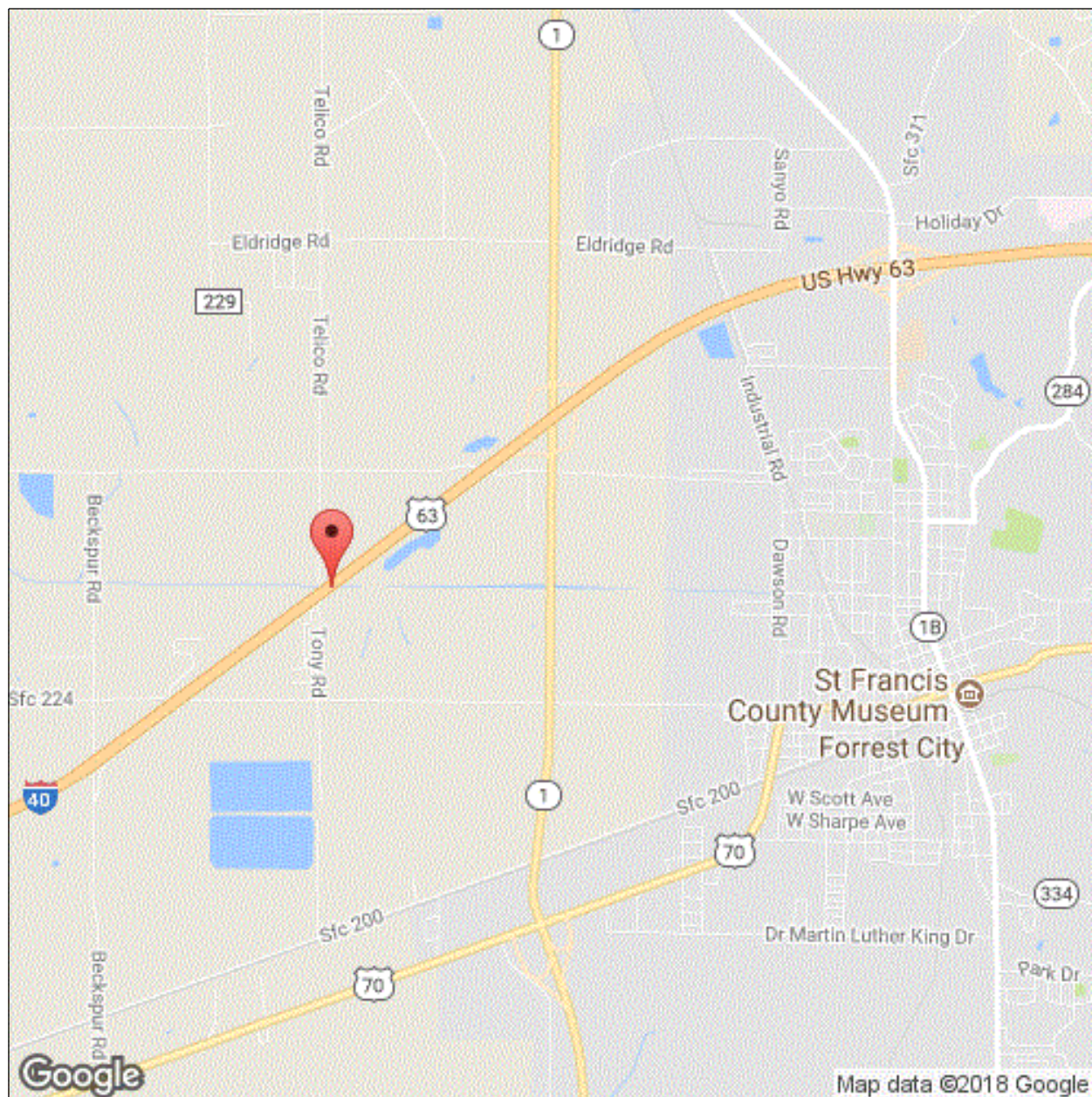
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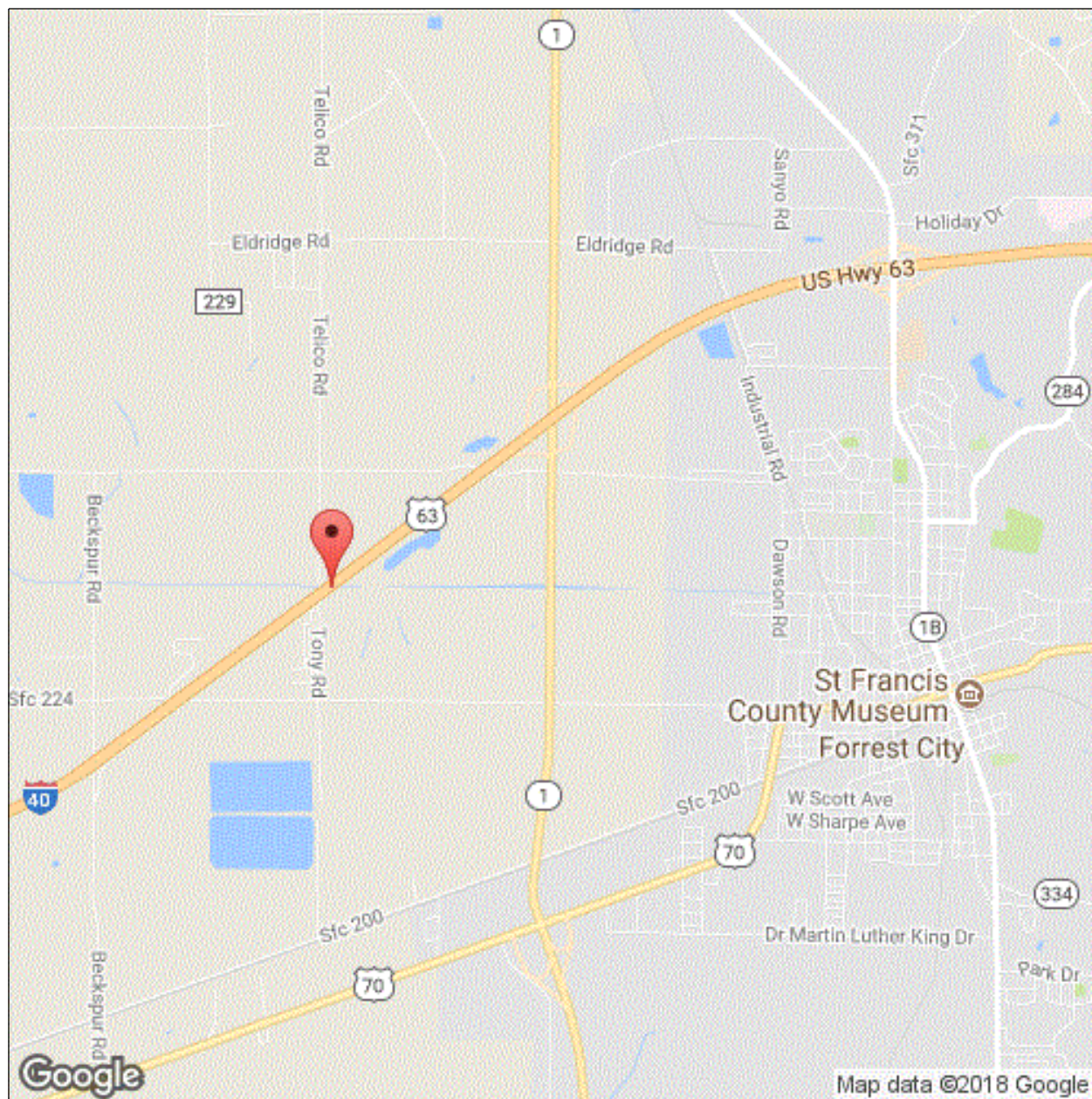
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## Bridge Inspection Report

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## **Bridge Inspection Report**

### **Executive Summary**

Inspector:

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## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	01/25/2018
(8) STRUCTURE NUMBER	B3614	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 1 1 40 2	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	01 (3) COUNTY CODE 123	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Spring Creek	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	I-40EB/Se51/L237.8		
(9) LOCATION	4.6 Miles Ne Of Sh 261		
(11) MILEPOINT 237.800	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000040510 (13B) SUBROUTE NUMBER -1		
(16) LATITUDE 35.015850	(17) LONGITUDE -90.834091		
(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 7
B) TYPE OF DESIGN/CONSTR: 01 - Slab		(61) CHANNEL & CHANNEL PROTECTION	6 (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 3	(46) NUMBER OF APPROACH 0		
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 3		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1965	(106) YEAR RECONSTRUCTED 2015	(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 33469	(19) BYPASS DETOUR LENGTH 3	(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 51		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 30	(49) STRUCTURE LENGTH (ft.) 90	(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.) 39.7		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 42.3		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 38.1		(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.) 40.7		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	90.2 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 19965	(115) YEAR OF FUTURE ADT 2028	(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
<b>38 - Reinforced Concrete Slab</b>	1- Ben.	3780	sq. ft.	3312	450	18	0
	Deck soffit has open longitudinal cracks with areas of cracks with areas of light efflorescence and small rust stains all spans. Span #2 soffit has 1' delamination 2' from bent #3 and 10' from right side of bridge, and left side has two 3' spalls with exposed rebar with 5% section loss.						
1080 - Delamination/Spall/Patched Area		2		0	0	2	0
1090 - Exposed Rebar		6		0	0	6	0
1120 - Efflorescence/Rust Staining		10		0	0	10	0
1130 - Cracking (RC and Other)		450		0	450	0	0
<b>227 - Reinforced Concrete Pile</b>	1- Ben.	18	each	18	0	0	0
<b>234 - Reinforced Concrete Pier Cap</b>	1- Ben.	304	ft.	302	0	2	0
	All caps both faces have several hairline vertical cracks various spacing. Bent #2 cap ahead face above pile #4 has six inch spall with exposed rebar with 5% section loss. Bent #2 cap right end has six inch spall with exposed rebar with 5% section loss. Bent #3 cap right end has moderate scaling with no loose aggregate. Bent #3 cap ahead face above pile #7 has six inch spall with rebar exposed with 5% section loss.						
1090 - Exposed Rebar		2		0	0	2	0
<b>301 - Pourable Joint Seal</b>	1- Ben.	256	ft.	216	0	40	0
	Each poured joint has several areas where material has lost adhesion.						
2320 - Seal Adhesion		40		0	0	40	0
<b>321 - Reinforced Concrete Approach Slab</b>	1- Ben.	2880	sq. ft.	2680	0	200	0
	Abutment #1,2 approach slabs have open transverse cracks.						
1130 - Cracking (RC and Other)		200		0	0	200	0
<b>331 - Reinforced Concrete Bridge Railing</b>	1- Ben.	180	ft.	119	61	0	0
	Abutment #1 left transition rail has 2' X 2' spall with exposed rebar no section loss. Bridge rails have vertical cracks spaced three feet apart. Bent #2 right side rail at bottom span #1 has six inch spall no rebar.						
1080 - Delamination/Spall/Patched Area		1		0	1	0	0
1130 - Cracking (RC and Other)		60		0	60	0	0

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**Bridge Inspection Report**

**Pictures**

PHOTO 1

Description

PHOTO 1

Description

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**Bridge Inspection Report**

**Pictures**

PHOTO 1

Description

PHOTO 2

Description

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**Bridge Inspection Report**

**Sketches**

Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 1/19/2012 12:00:00 AM

Priority: C - Important

Work Code: N/A

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#### Deficiency Description:

Abutment #1 left transition rail has 2' X 2' spall with exposed rebar no section loss.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Monitor



PHOTO 1      Description      Concrete transition wall abutment #1 left side

Stage: Monitor



PHOTO 2      Description      Abutment #1 left rail spall.

Inspector:

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### Bridge Inspection Report

## Maintenance Needs

Date Reported: 1/17/2014 12:00:00 AM

Priority: D - Routine

Work Code: N/A

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### Deficiency Description:

Span #2 soffit has 1' delamination 2' from bent #3 and 10' from right side of bridge, and left side has two 3' spalls with exposed rebar with 5% section loss.

### Work Description:

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### Date Repairs Completed:

### Maintenance Comments:

BB0104 Contractor resurfaced deck.

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### Stage: Monitor



PHOTO 1      Description      Spall in soffit span #2 left side.

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 01/25/2018

Priority: C - Important

Work Code: N/A

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#### Deficiency Description:

Small trees and vegetation are growing under and beside bridge.

#### Work Description:

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#### Date Repairs Completed:

#### Maintenance Comments:

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#### Stage: Monitor



PHOTO 1    Description    Typical vegetation

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### Bridge Inspection Report

#### Maintenance Needs

Date Reported: 01/25/2018

Priority: C - Important

Work Code: N/A

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#### Deficiency Description:

Each poured joint has several areas where material has lost adhesion.

#### Work Description:

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#### Date Repairs Completed:

#### Maintenance Comments:

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Stage: Open

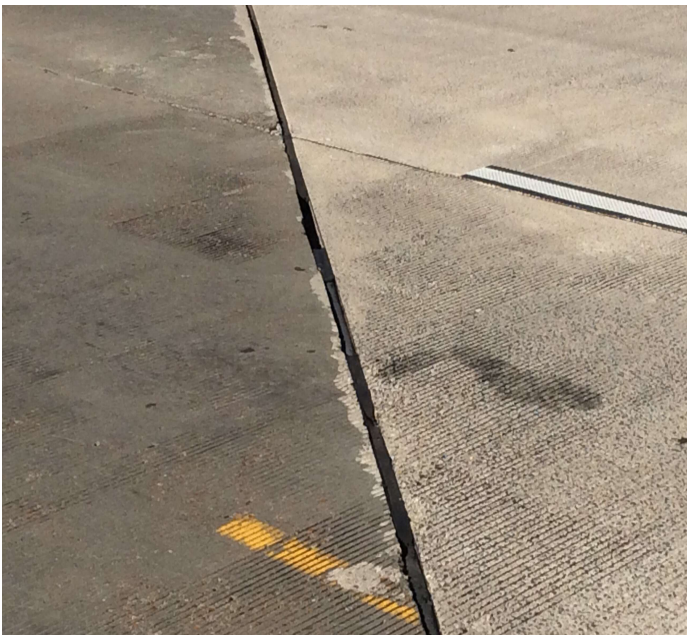


PHOTO 1    Description    Typical joint lost adhesion.

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 01/25/2018

Priority: C - Important

Work Code: N/A

---

#### Deficiency Description:

Right side of bridge has small beaver dam blocking channel.

#### Work Description:

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#### Date Repairs Completed:

#### Maintenance Comments:

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Stage: Open



PHOTO 1      Description      Right side of bridge has small beaver dam blocking channel.