

Bridge Inspection Report

05644

**US 167/Indepen. Co
over
WHITE RIVER RELIEF**



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

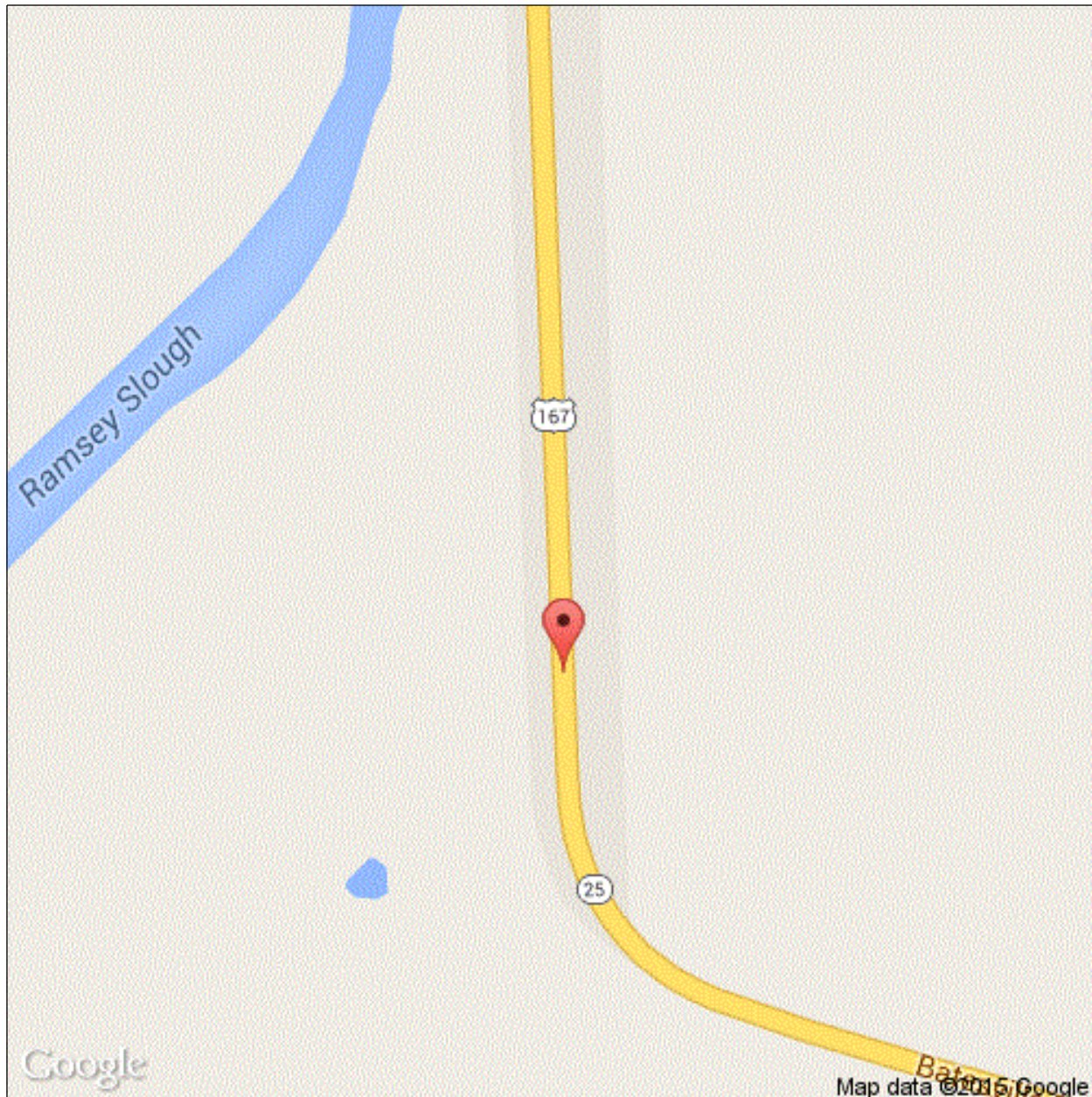
Structure Number: 05644

Inspection Date:

Facility Carried: US 167/Indepen. Co

Bridge Inspection Report

Location Map



Latitude: 35.74517884987238

Longitude: -91.64041493005942

Inspector:

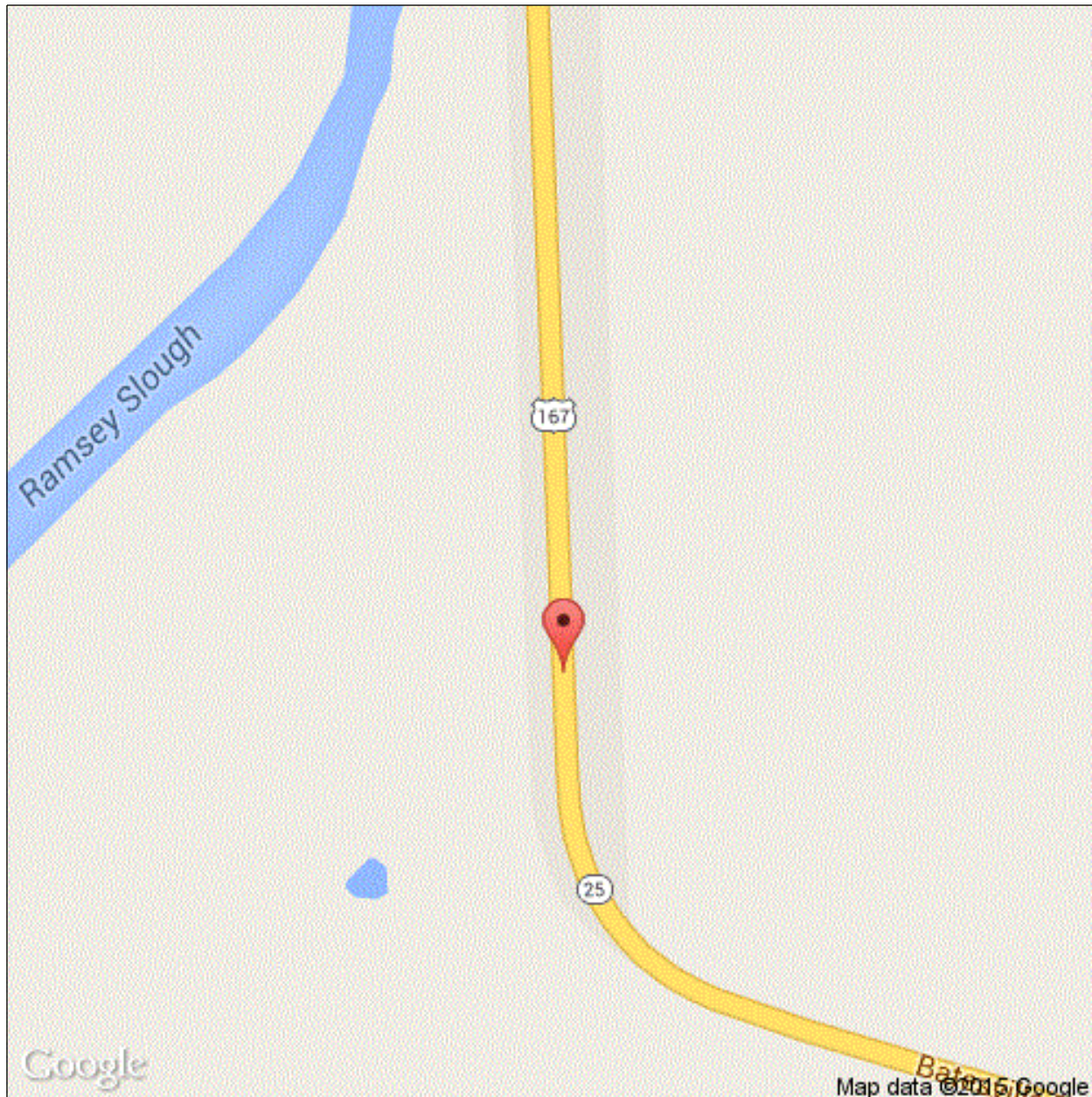
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Bridge Inspection Report

Location Map



Latitude: 35.74517884987238

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Bridge Inspection Report

Executive Summary

Log Mile running to the North.

See attached Form III for detailed deficiencies and locations.

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	04/29/2019
(8) STRUCTURE NUMBER	05644	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 167 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	05 (3) COUNTY CODE 063	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	WHITE RIVER RELIEF	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 167/Indepen. Co		
(9) LOCATION	1.79 MI S JCT SH 69		
(11) MILEPOINT 16.476	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000167170 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.74517884987238	(17) LONGITUDE -91.64041493005942		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	7
A) KIND OF MATERIAL/DESIGN: 1 - Concrete		(59) SUPERSTRUCTURE	7
B) TYPE OF DESIGN/CONSTR: 01 - Slab		(60) SUBSTRUCTURE	7
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	8
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN 34	(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 1976	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	5
(42) TYPE OF SERVICE ON 1	UNDER 5	(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 04	UNDER 00	(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 23000	(19) BYPASS DETOUR LENGTH 28	(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 1		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 30	(49) STRUCTURE LENGTH (ft.) 1020	(67) STRUCTURAL EVALUATION	7
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0	RIGHT 0	(68) DECK GEOMETRY	7
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	64.0	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	66.7	(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.)	64.0	(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:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	65.3	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	5
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	SUFFICIENCY RATING	83.0
		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	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
(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 30363	(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

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
38 - Reinforced Concrete Slab	1- Ben.	68034	sq. ft.	0	67033	1001	0
	Soffit has 2332' of longitudinal cracks of which 762 have minor efflorescence. The Deck has 2218' of unsealed longitudinal cracks. Several Spans have Spalls with exposed rebar to the Right edge of deck. (See attached Form III for exact locations of all defects)						
1080 - Delamination/Spall/Patched Area		223		0	209	14	0
1090 - Exposed Rebar		59		0	0	59	0
1120 - Efflorescence/Rust Staining		1953		0	1465	488	0
1130 - Cracking (RC and Other)		1033		0	593	440	0
1190 - Abrasion/Wear (PSC/RC)		64766		0	64766	0	0
215 - Reinforced Concrete Abutment	1- Ben.	147	ft.	62	84	1	0
	Abutment 1 has 28' of Spalls with 4' of exposed rebar. Abutment 2 has 48' of Spalls with 4' of exposed rebar & 1 vertical efflorescent crack with rust stains near centerline.						
1080 - Delamination/Spall/Patched Area		76		0	76	0	0
1090 - Exposed Rebar		8		0	8	0	0
1120 - Efflorescence/Rust Staining		1		0	0	1	0
227 - Reinforced Concrete Pile	1- Ben.	264	each	238	24	2	0
	Piles 3 & 4 at Bent 1 have 1/8" wide horizontal cracks 5'+- below bottom of cap. Piles 1 through 8 at Bents 1, 32 & 33 have horizontal hairline cracks at 5'+- below bottom of cap. Pile 1 at Bent 5 has deep spall at top.						
1080 - Delamination/Spall/Patched Area		2		0	2	0	0
1130 - Cracking (RC and Other)		24		0	22	2	0
234 - Reinforced Concrete Pier Cap	1- Ben.	2211	ft.	2143	43	25	0
	Hairline crack to both faces of Cap at Bent 20 between Piles 3 & 4 and 6 & 7. Several Caps have Spalls some with exposed rebar(see attached Form III for exact locations) Bent 1 has rotated back 7/8" in 18". Bent 2 has rotated back 1/2" in 18". Bent 3, 4 & 5 minor rotation back. Bent 31 has minor rotation ahd. Bent 32 has rotated ahd. 1/2" in 18". Bent 33 has rotated 3/4" in 18".						
1080 - Delamination/Spall/Patched Area		43		0	39	4	0
1090 - Exposed Rebar		21		0	0	21	0
1130 - Cracking (RC and Other)		4		0	4	0	0
301 - Pourable Joint Seal	1- Ben.	2335	ft.	611	738	738	248
	Joints at Abutments 1 & 2 damaged and some is missing. Joints at Bents 1 through 33 have loss of adhesion,cracking and portions missing.						
2310 - Leakage		128		0	0	0	128

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Element Inspection

2320 - Seal Adhesion		858		0	0	738	120
2350 - Debris Impaction		738		0	738	0	0
321 - Reinforced Concrete Approach Slab	1- Ben.	3220	sq. ft.	2942	278	0	0
Spall on right shoulder of Approach Slab at Abutment 2.							
1080 - Delamination/Spall/Patched Area		278		0	278	0	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	2040	ft.	2037	1	2	0
Minor cracking & spalls @ random areas of concrete railing. Beginning of Span 10 Right side spall with 9" of exposed rebar to outside edge. Spall with rebar exposed with s/l to Left parapet @ Span 31.							
1080 - Delamination/Spall/Patched Area		1		0	0	1	0
1090 - Exposed Rebar		2		0	1	1	0

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Bridge Inspection Report

Pictures

PHOTO 1

Description

PHOTO 1

Description

Inspector:

Inspection Date:

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Bridge Inspection Report

Pictures

PHOTO 2

Description

PHOTO 3

Description

Inspector:

Inspection Date:

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Bridge Inspection Report

Sketches

Inspector:

Structure Number: 05644

Inspection Date:

Facility Carried: US 167/Indepen. Co

Bridge Inspection Report

Maintenance Needs

Date Reported: 04/19/2017

Priority: D - Routine

Work Code: Repair

Deficiency Description:

Spalls with rebar exposed to caps at Bents 1, 2, 10, 11, 17-24, 26, 27,30-33.
Spalls with rebar exposed to Abutments 1 & 2.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Bent 1 right end of Cap spall with exposed rebar.

Stage: Assigned



PHOTO 2 Description Bent 2 at Pile 1 spall with 6" of exposed rebar and spall with no exposed rebar at Bridge Seat on ahead side.

Inspector:

Structure Number: 05644

Inspection Date:

Facility Carried: US 167/Indepen. Co

Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 3 Description Left end of Cap at Bent 22.

Stage: Assigned



PHOTO 4 Description Right end of Cap at Bent 22.

Stage: Assigned



PHOTO 5 Description Right end of Cap at Bent 23.

Stage: Assigned



PHOTO 6 Description Left end of Cap at Bent 33.

Inspector:

Structure Number: 05644

Inspection Date:

Facility Carried: US 167/Indepen. Co

Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 7 Description Left end of Abutment 2

Stage: Assigned



PHOTO 8 Description Face of Abutment 2 near Centerline.

Inspector:

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Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 04/19/2017

Priority: D - Routine

Work Code: Repair

Deficiency Description:

Hairline to 1/8" wide horizontal cracks to piles, located \pm 5' below bottom of cap, at Bents 1, 32 & 33.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Pile 3 at Bent 1

Stage: Assigned



PHOTO 2 Description Spall in right lane at Span 32 with 16" of exposed rebar. Repaired.

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 04/19/2017

Priority: D - Routine

Work Code: Repair

Deficiency Description:

Deck joints at Abutment 1 & 2 are deteriorated with most sections missing.
Deck joints at Spans 1 - 34 are deteriorated & filled with debris.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Joint at Abutment 1

Stage: Assigned

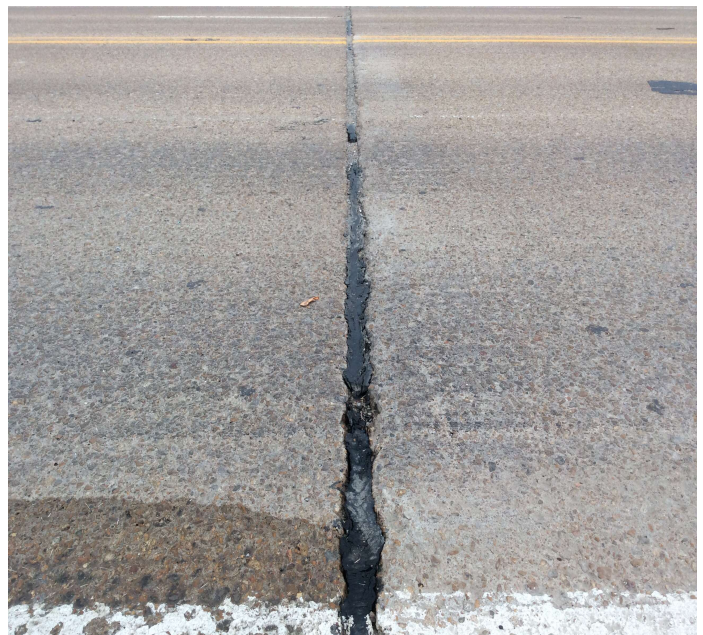


PHOTO 2 Description Bent 1 Joint

Inspector:

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Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 3 Description Bent 23 joint.

Stage: Assigned



PHOTO 4 Description Bent 33 joint

Stage: Assigned



PHOTO 5 Description Abutment 2 right shoulder spalled patch and joint condition.

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Bridge Inspection Report

Maintenance Needs

Date Reported: 04/20/2017

Priority: D - Routine

Work Code: Repair

Deficiency Description:

Unsealed cracks to deck at all spans.

Spall in right lane at Span 32 with 16" of exposed rebar.

Right edge of Deck below at Spans 8, 9, 11, 12, 13, 20, 28, 29 have Spalls with exposed rebar.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Span 7 unsealed crack.

Stage: Assigned



PHOTO 2 Description Span 20 unsealed crack.

Inspector:

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Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 3 Description Span 12 right edge of Deck.

Stage: Assigned



PHOTO 4 Description Right edge of Deck at Span 29.

Stage: Assigned



PHOTO 5 Description Spall in right lane at Span 32 with 16" of exposed rebar.
Deck spalls Repaired.

Stage: Assigned



PHOTO 6 Description Typical of Longitudinal cracks to deck @ several spans.

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 04/19/2017

Priority: D - Routine

Work Code:

Deficiency Description:

Bent 1 has rotated back 7/8" in 18".
Bent 2 has rotated back 1/2" in 18".
Bent 3, 4 & 5 have minor rotation back.
Bent 31 has minor rotation ahead.
Bent 32 has rotated ahead 1/2" in 18".
Bent 33 has rotated ahead 3/4" in 18"

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Bent 1 has rotated back 7/8" in 18".

Stage: Open



PHOTO 2 Description Bent 1 has rotated back.

Inspector:

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Maintenance Needs

Date Reported: 04/19/2017

Priority: C - Important

Work Code:

Deficiency Description:

Bent 2 - Piles 4, 5 & 6 are bowed & leaning back at cracks (cold joints).

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Bent 1 - Piles 4, 5, & 6 are bowed & leaning back at cracks (cold joints).