

Bridge Inspection Report

03290
SH 119-02- LM 4.79
over
I 55-SEC 12



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

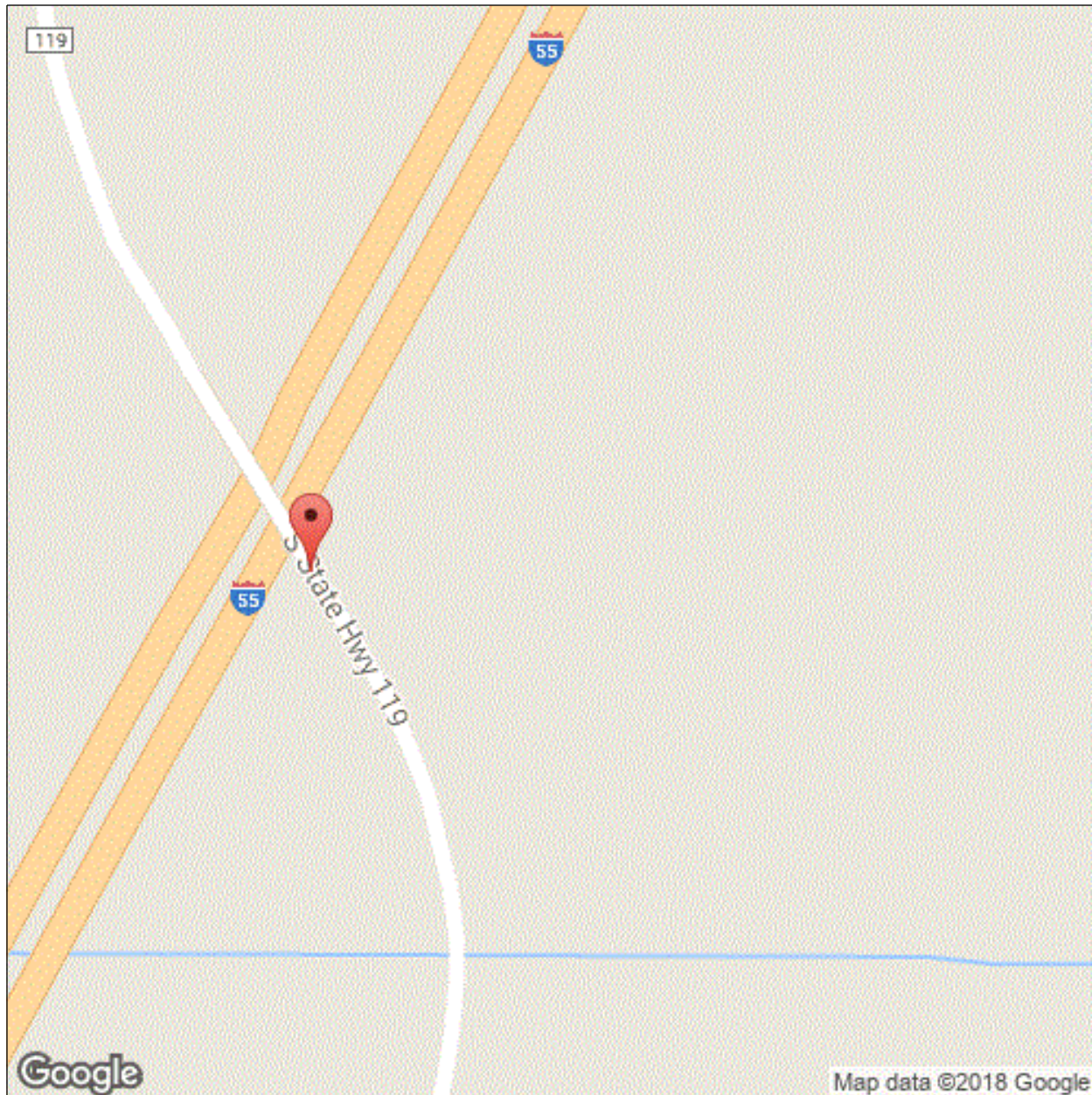
Structure Number: 03290

Inspection Date:

Facility Carried: SH 119-02- LM 4.79

Bridge Inspection Report

Location Map



Latitude: 35.72137

Longitude: -90.03393

Inspector:

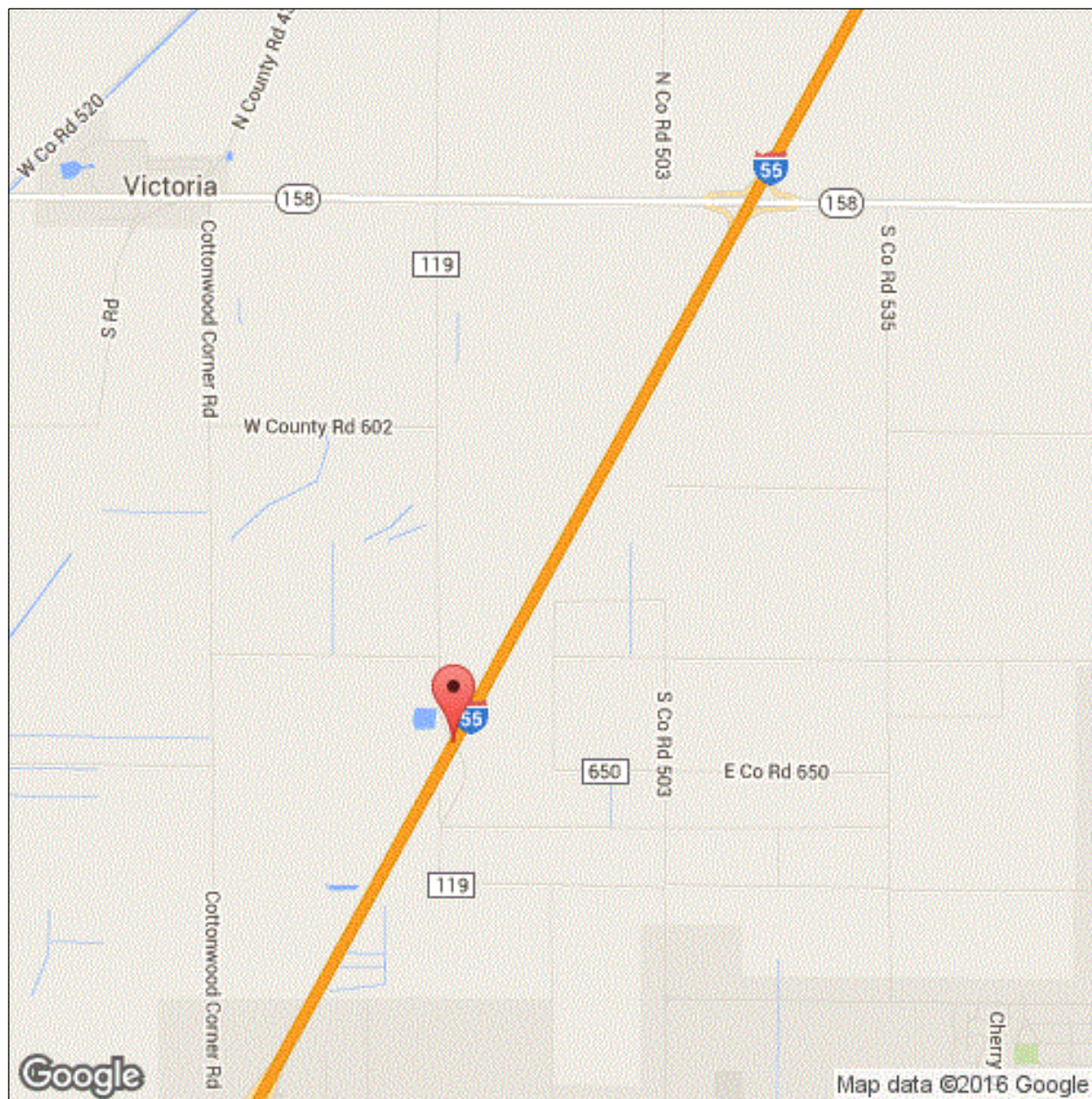
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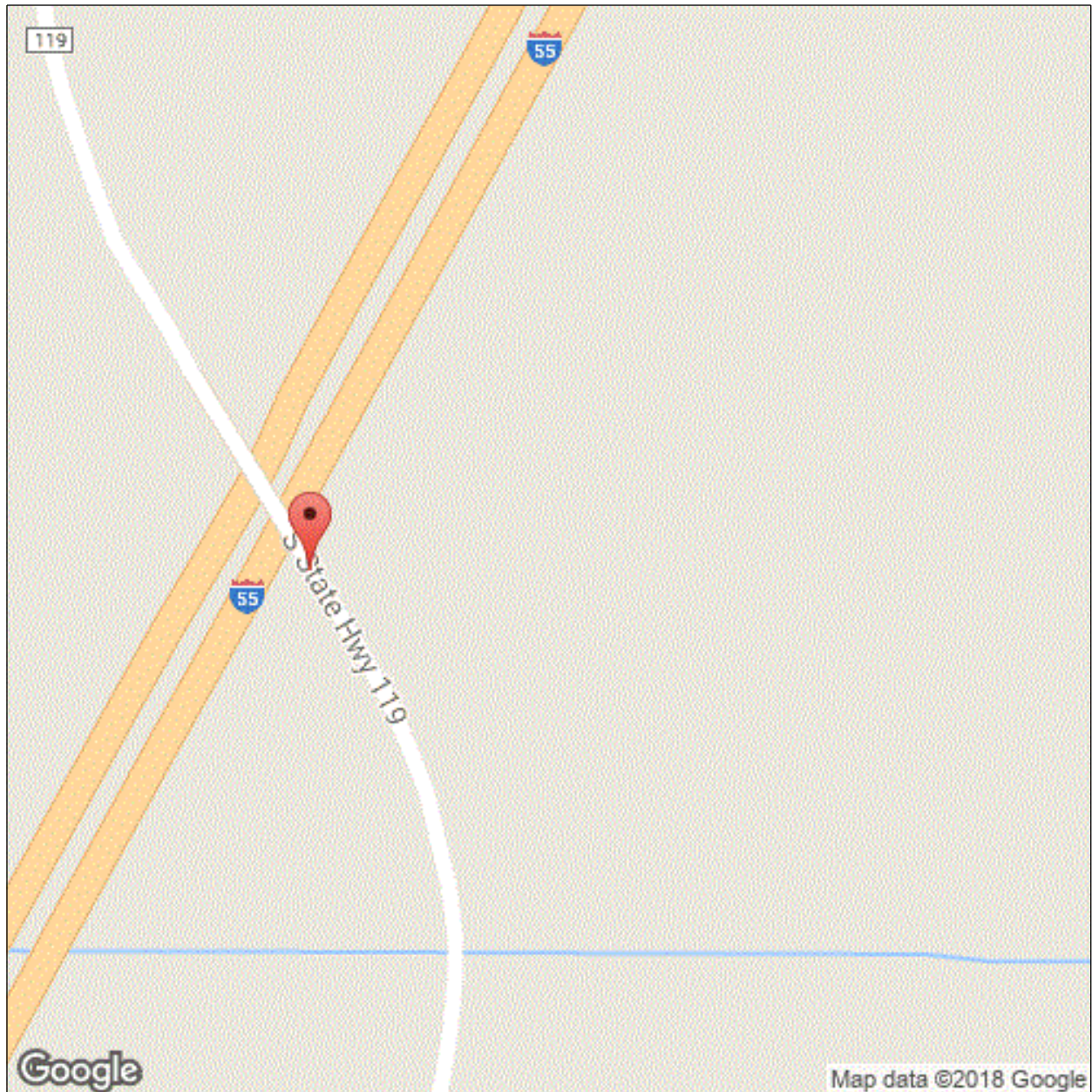
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Location Map



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Inspector:

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Bridge Inspection Report

Executive Summary

Inspector:

Structure Number: 03290

Inspection Date:

Facility Carried: SH 119-02- LM 4.79

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	04/17/2018
(8) STRUCTURE NUMBER	03290	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 119 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	10 (3) COUNTY CODE 093	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	I 55-SEC 12	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 119-02- LM 4.79		
(9) LOCATION	4.79 MI W US 61 JCT		
(11) MILEPOINT 4.790	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.72137	(17) LONGITUDE -90.03393		
(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	(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: 0 - Other			
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN 4	(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 1960	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	4
(42) TYPE OF SERVICE ON 1 UNDER 1		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 04		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 340	(19) BYPASS DETOUR LENGTH 5	(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.) 76	(49) STRUCTURE LENGTH (ft.) 255	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 1.5 RIGHT 1.5		(68) DECK GEOMETRY	5
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 24.0		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	4
(52) DECK WIDTH, OUT-TO-OUT (ft.) 29		(71) WATERWAY ADEQUACY	N
(32) APPROACH ROADWAY WIDTH (ft.) 32.2		(72) APPROACH ROADWAY ALIGNMENT	7
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 30	(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.) 24.3		36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.) H 15.58		36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) H 12		(113) SCOUR CRITICAL BRIDGES	N
(56) MIN LATERAL UNDER CLEARANCE (ft.) 24.2		SUFFICIENCY RATING 81.8	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 354	(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	5
		(39) NAV VERT CLEARANCE (ft.)	0
		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
		(40) NAV HORIZONTAL CLEARANCE (ft.)	0

Inspector:

Structure Number: 03290

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Facility Carried: SH 119-02- LM 4.79

Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	7370	sq. ft.	0	2777	4593	0
1080 - Delamination/Spall/Patched Area		2609			6	2603	
1090 - Exposed Rebar		9				9	
1120 - Efflorescence/Rust Staining		529				529	
1130 - Cracking (RC and Other)		1452				1452	
1190 - Abrasion/Wear (PSC/RC)		2771			2771		
107 - Steel Open Girder/Beam	1- Ben.	1004	ft.	0	908	96	0
1000 - Corrosion		1004			908	96	
515 - Steel Protective Coating		9624	sq. ft.	0	829	7954	841
3440 - Effectiveness (Steel Protective Coatings)		9624			829	7954	841
205 - Reinforced Concrete Column	1- Ben.	6	each	0	0	6	0
1090 - Exposed Rebar		6				6	
215 - Reinforced Concrete Abutment	1- Ben.	108	ft.	5	27	76	0
1130 - Cracking (RC and Other)		61				61	
6000 - Scour		42			27	15	
234 - Reinforced Concrete Pier Cap	1- Ben.	99	ft.	73	4	22	0
1080 - Delamination/Spall/Patched Area		4			4		
1120 - Efflorescence/Rust Staining		10				10	
1130 - Cracking (RC and Other)		12				12	
301 - Pourable Joint Seal	1- Ben.	67	ft.	0	67	0	0
2350 - Debris Impaction		67			67		
305 - Assembly Joint without Seal	1- Ben.	139	ft.	139			
311 - Movable Bearing	1- Ben.	16	each	0	0	16	0
1000 - Corrosion		16				16	
313 - Fixed Bearing	1- Ben.	16	each	0	8	8	0
1000 - Corrosion		16			8	8	
321 - Reinforced Concrete Approach Slab	1- Ben.	730	sq. ft.	724	0	6	0
1130 - Cracking (RC and Other)		6				6	
330 - Metal Bridge Railing	1- Ben.	510	ft.	509	0	1	0
1020 - Connection		1				1	
331 - Reinforced Concrete Bridge Railing	1- Ben.	510	ft.	308	0	202	0
1080 - Delamination/Spall/Patched Area		40				40	

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Bridge Inspection Report

Element Inspection

1130 - Cracking (RC and Other)		162				162	
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Inspector:

Inspection Date:

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Facility Carried: SH 119-02- LM 4.79

Bridge Inspection Report

Pictures

PHOTO 2

Description

Inspector:

Inspection Date:

Structure Number: 03290

Facility Carried: SH 119-02- LM 4.79

Bridge Inspection Report

Sketches

Inspector:

Structure Number: 03290

Inspection Date:

Facility Carried: SH 119-02- LM 4.79

Bridge Inspection Report

Maintenance Needs

Date Reported: 10/4/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Columns 1 & 2 bents 2,3 & 4 have several spalled and/or impending spalls with some exposed rebar, some have been patched previously, but patches are cracking and shelling off.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description

Inspector:

Inspection Date:

Structure Number: 03290

Facility Carried: SH 119-02- LM 4.79

Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 3 Description

Stage: Monitor



PHOTO 4 Description

Inspector:

Structure Number: 03290

Inspection Date:

Facility Carried: SH 119-02- LM 4.79

Bridge Inspection Report

Maintenance Needs

Date Reported: 04/07/2016

Priority: C - Important

Work Code:

Deficiency Description:

Spans 1&4 Concrete Slope Protection is cracked, settling and separating from Abutments up to 3 inches. Slide and Erosion on the right side of Bent 5 with displacement to Slope Protection exposing the right corner of Abutment, see 2016 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description

Inspector:

Structure Number: 03290

Inspection Date:

Facility Carried: SH 119-02- LM 4.79

Bridge Inspection Report

Maintenance Needs

Date Reported: 04/07/2016

Priority: C - Important

Work Code:

Deficiency Description:

Top of Deck

has several areas patched and some delamination, 30% - 35% distress area and has several sealable cracks with light to medium scale and several small shelled out areas, see 2016 photo & 2018 span 3 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description

Inspector:

Structure Number: 03290

Inspection Date:

Facility Carried: SH 119-02- LM 4.79

Bridge Inspection Report

Maintenance Needs

Stage: Open



PHOTO 3 Description

Stage: Open



PHOTO 4 Description

Stage: Open



PHOTO 5 Description

Stage: Open



PHOTO 6 Description

Inspector:

Inspection Date:

Structure Number: 03290

Facility Carried: SH 119-02- LM 4.79

Bridge Inspection Report

Maintenance Needs

Stage: Open



PHOTO 7 Description

Stage: Open

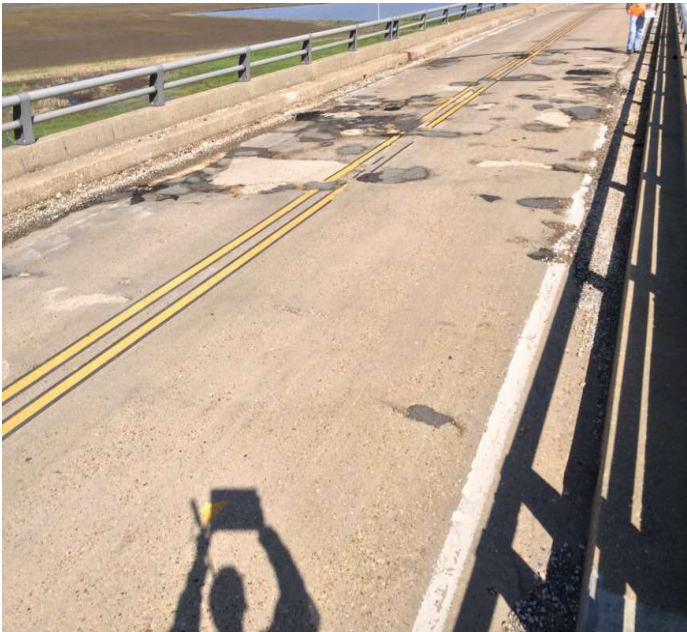


PHOTO 8 Description

Stage: Open



PHOTO 9 Description

Stage: Open



PHOTO 10 Description

Inspector:

Structure Number: 03290

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Bridge Inspection Report

Maintenance Needs

Date Reported: 10/4/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Bottom of Deck has several cracks with light efflorescence and rust stains, especially Span 4 Bays 1&2 near Bent 5. Bottom of Deck Span 4 Bay 1 has a 2 each 4ft. x 1ft. of delamination/ impending spall and 5 each 1ft. x 1ft. spall with rebar exposed.

Bottom of Deck Span 4 Bay 2 has a 4ft. x 1ft. of delamination/ impending spall.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Inspector:

Structure Number: 03290

Inspection Date:

Facility Carried: SH 119-02- LM 4.79

Bridge Inspection Report

Maintenance Needs

Date Reported: 10/4/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Majority of Steel Girders are rusted with pitting.

Up to 3ft. on end of Steel Girders are rusted with some minor measurable section loss, up to 1/8 inch, especially on ends and to web at concrete haunches over Bents 2, 3, & 5.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description

Inspector:

Inspection Date:

Structure Number: 03290

Facility Carried: SH 119-02- LM 4.79

Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 3 Description

Inspector:

Structure Number: 03290

Inspection Date:

Facility Carried: SH 119-02- LM 4.79

Bridge Inspection Report

Maintenance Needs

Date Reported: 10/4/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Bearings

have some rust with section loss especially the Movable Bearings Bents 2&5 having pack rust between rockers & masonry plates.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

Structure Number: 03290

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Bridge Inspection Report

Maintenance Needs

Date Reported: 04/07/2016

Priority: C - Important

Work Code:

Deficiency Description:

Left Approach Guard Rail and Anchor System has some collision damage, see 2016 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

Inspector:

Structure Number: 03290

Inspection Date:

Facility Carried: SH 119-02- LM 4.79

Bridge Inspection Report

Maintenance Needs

Date Reported: 04/07/2016

Priority: D - Routine

Work Code:

Deficiency Description:

Right side of Span 1 has 1 Aluminum Rail bracket broke.
Concrete Curbs have cracks, deterioration with some section loss.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 04/17/2018

Priority: C - Important

Work Code:

Deficiency Description:

Bottom of deck spans 2 & 3 over interstate traffic has delaminated areas/impending spalls.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description