

Bridge Inspection Report

03794

SH 7-S-3 LM 15.06

over

US 79-SEC 4 LOG MI 0.60



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

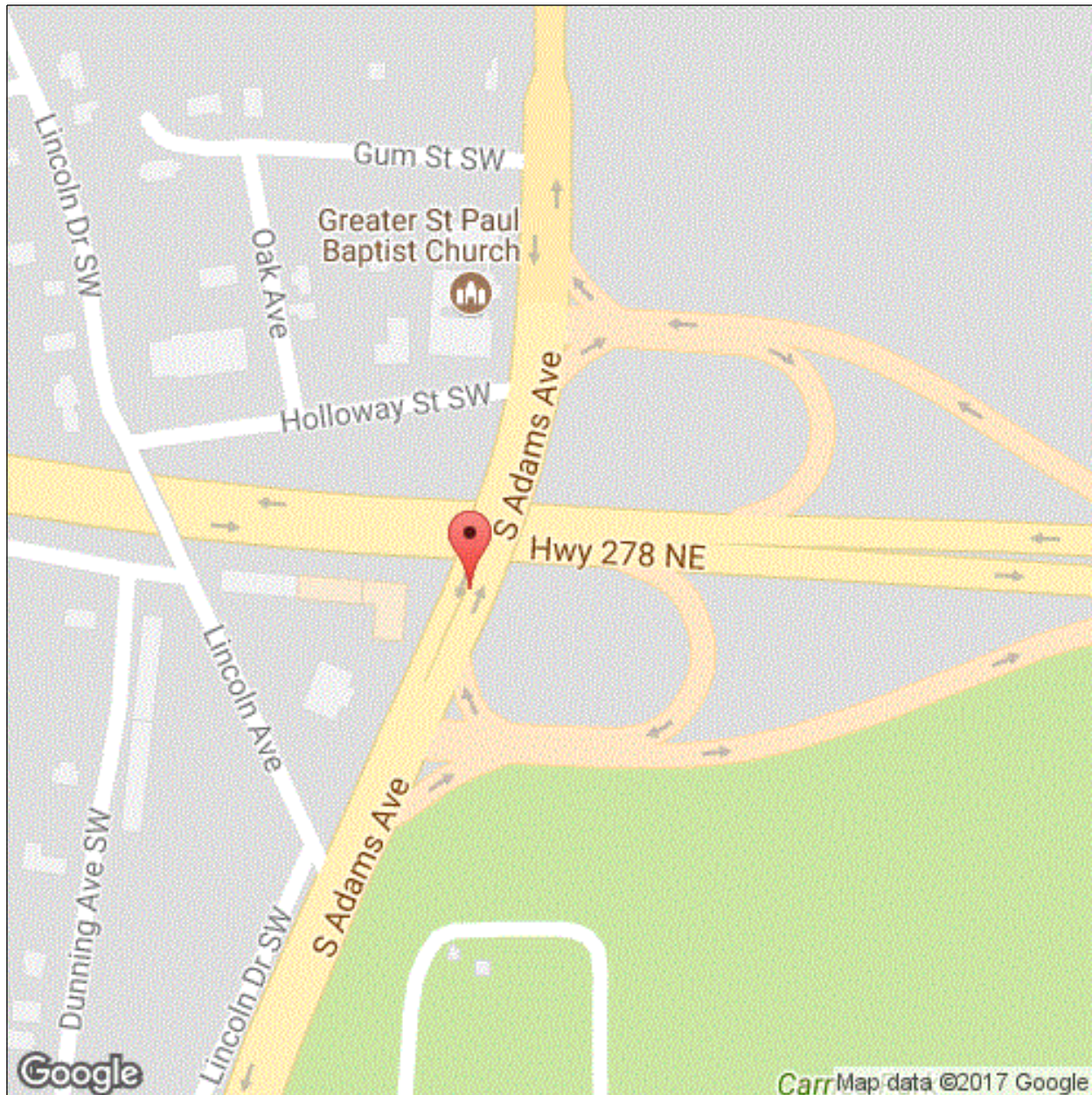
Inspection Date:

Structure Number: 03794

Facility Carried: SH 7-S-3 LM 15.06

Bridge Inspection Report

Location Map



Latitude: 33.56858

Longitude: -92.82784

Inspector:

Structure Number: 03794

Inspection Date:

Facility Carried: SH 7-S-3 LM 15.06

Bridge Inspection Report

Location Map



Latitude: 33.56858

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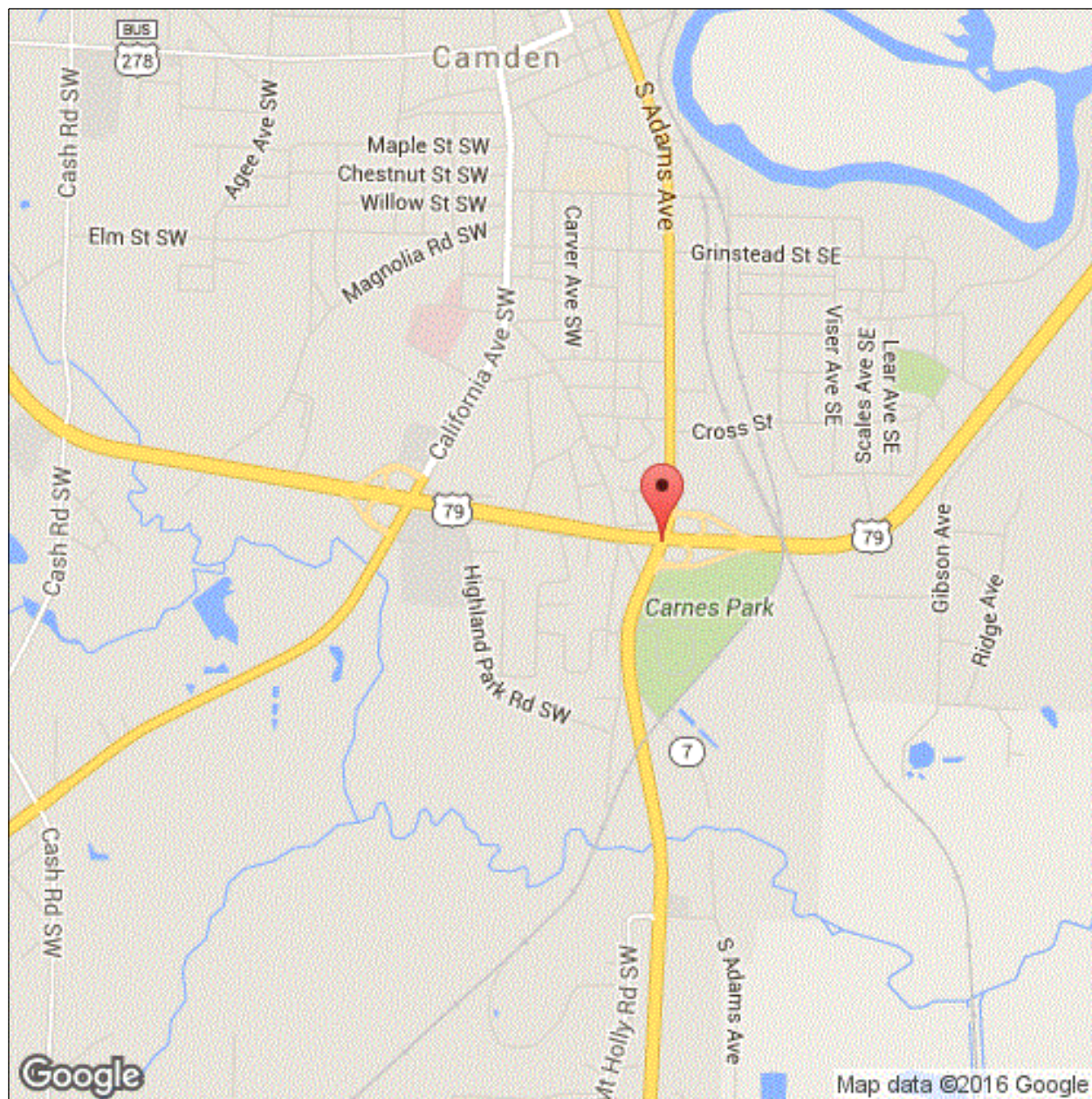
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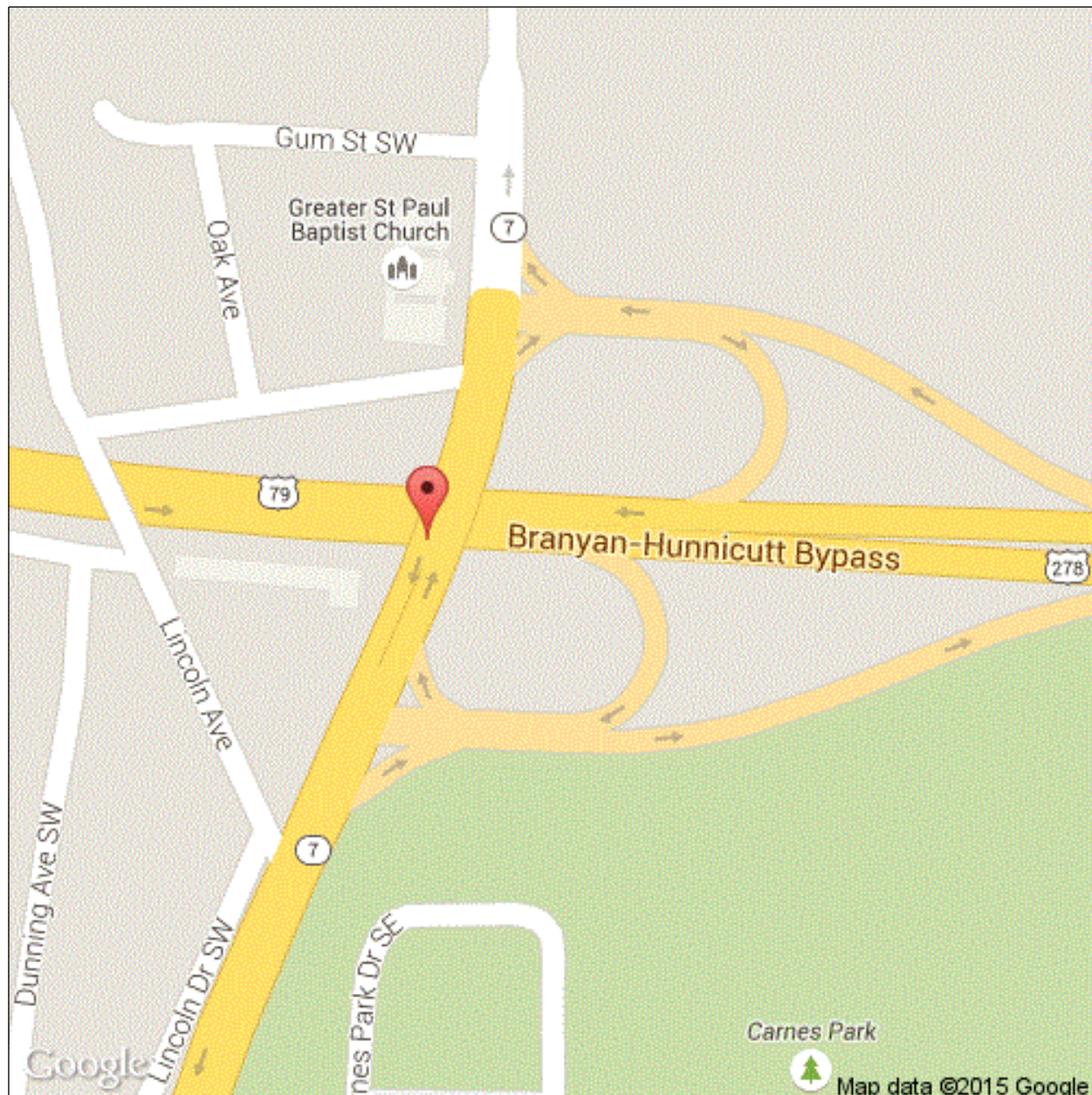
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Bridge Inspection Report

Executive Summary

Logged south to north.

Concrete deck has cracks all spans, span 2 right has several small potholes , no exposed steel. Approach slabs are cracked , joint material has failed allowing water and debris onto caps and girder ends. Steel girder # 2 span 2 has suffered a traffic impact and is bent out of plane, the diaphragm clips (2-3) between girders 2-3 are cracked. Bents 2-3-4 caps have cracks and delaminations and bent 3 cap has a large spalled area with exposed steel. Some staining and initial section loss. Column 2 bent 4 has some initial cracking/delamination.

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	06/05/2019
(8) STRUCTURE NUMBER	03794	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 7 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	07 (3) COUNTY CODE 103	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	10280	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	US 79-SEC 4 LOG MI 0.60	C. OTHER SPECIAL	Y 24 06/29/2017
(7) FACILITY CARRIED	SH 7-S-3 LM 15.06		
(9) LOCATION	INTERSEC US 79 & SH 7		
(11) MILEPOINT 15.067	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000007030 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 33.56858	(17) LONGITUDE -92.82784		
(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: 3 - Steel		(59) SUPERSTRUCTURE 7	(60) SUBSTRUCTURE 5
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 1965	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	5
(42) TYPE OF SERVICE ON 6 UNDER 1		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 04 UNDER 04		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 9000	(19) BYPASS DETOUR LENGTH 1	(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.) 54	(49) STRUCTURE LENGTH (ft.) 195	(67) STRUCTURAL EVALUATION	5
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 4 RIGHT 4		(68) DECK GEOMETRY	3
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	56.1	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	3
(52) DECK WIDTH, OUT-TO-OUT (ft.)	70	(71) WATERWAY ADEQUACY	N
(32) APPROACH ROADWAY WIDTH (ft.)	67.9	(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 18	(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.)	67.9	36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.)	H 15.07	36D) APPROACH GUARDRAIL ENDS:	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H 5.2	(113) SCOUR CRITICAL BRIDGES	N
(56) MIN LATERAL UNDER CLEARANCE (ft.)	5.2	SUFFICIENCY RATING	71.8 STATUS 2
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	12
(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 4469	(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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Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	10920	sq. ft.	2	10908	10	0
06/28/2017 JPR -- There are some patched pot holes in the bridge deck, patched with cold mill.							
1080 - Delamination/Spall/Patched Area		10		0	0	10	0
1120 - Efflorescence/Rust Staining		9		0	9	0	0
1130 - Cracking (RC and Other)		5444		0	5444	0	0
1190 - Abrasion/Wear (PSC/RC)		5455		0	5455	0	0
107 - Steel Open Girder/Beam	1- Ben.	2340	ft.	2286	54	0	0
Girder # 2 span two is bent out of plane from traffic impact. Diaphragm clips # 2-3 between girders 2-3 are cracked. Minor paint deterioration, most evident at collision site.							
7000 - Damage		54		0	54	0	0
515 - Steel Protective Coating		15400	sq. ft.	15400	0	0	0
205 - Reinforced Concrete Column	1- Ben.	12	each	11	1	0	0
Initial cracking delamination, column 2 span 3. See picture file.							
1080 - Delamination/Spall/Patched Area		1		0	1	0	0
215 - Reinforced Concrete Abutment	1- Ben.	140	ft.	140	0	0	0
Some water seepage @ abutment 1							
234 - Reinforced Concrete Pier Cap	1- Ben.	210	ft.	130	70	10	0
All caps have some cracking and delams with bent 3 cap having spalls with exposed steel. Water seepage See picture files.							
1080 - Delamination/Spall/Patched Area		10		0	0	10	0
1090 - Exposed Rebar		10		0	10	0	0
1130 - Cracking (RC and Other)		60		0	60	0	0
300 - Strip Seal Expansion Joint	1- Ben.	280	ft.	0	280	0	0
Strip seal is failing @ all joints. Water and debris are moving through the joints.							
2330 - Seal Damage		140		0	140	0	0
2350 - Debris Impaction		140		0	140	0	0
311 - Movable Bearing	1- Ben.	48	each	48	0	0	0
Minor paint deterioration.							
313 - Fixed Bearing	1- Ben.	48	each	48	0	0	0
321 - Reinforced Concrete Approach Slab	1- Ben.	4032	sq. ft.	3912	120	0	0
Slabs are cracked .							
1130 - Cracking (RC and Other)		120		0	120	0	0

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Element Inspection

330 - Metal Bridge Railing	1- Ben.	390	ft.	390	0	0	0
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Bridge Inspection Report

Pictures

PHOTO 1
Description

PHOTO 2
Description

Inspector:

Inspection Date:

Structure Number: 03794

Facility Carried: SH 7-S-3 LM 15.06

Bridge Inspection Report

Pictures

PHOTO 2

Description

Inspector:

Inspection Date:

Structure Number: 03794

Facility Carried: SH 7-S-3 LM 15.06

Bridge Inspection Report

Sketches

Inspector:

Structure Number: 03794

Inspection Date:

Facility Carried: SH 7-S-3 LM 15.06

Bridge Inspection Report

Maintenance Needs

Date Reported: 6/21/2011 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Superstructure Components

Diaphragm connecting plates #2 & #3 of girders 2 & 3 cracked from traffic impact. Girder 2 span 2 bent by traffic.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description 03794 Girder 2 span 2 showing bending from traffic impact.

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 06/28/2017

Priority: D - Routine

Work Code:

Deficiency Description:

Deck

Joint material has failed, all joints. 06/28/2017 Joint material is leaking and letting water and road salts to get through to the caps thus allowing for more spalls on the caps and more rust on the girder ends and bearings.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description 03794 joint material @ Bt 2 joint.

Stage: Monitor



PHOTO 2 Description Joint at abutment 2, this is typical of all joints.

Inspector:

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Maintenance Needs

Date Reported: 06/28/2017

Priority: D - Routine

Work Code:

Deficiency Description:

Cap Bt 3 (back)

Large spall with exposed steel. 06/28/2017 JPR -- Spall @ Bt. 3 cap back has gotten larger since 2014 inspection. The exposed steel has pack rust with some significant section loss to reinforcing steel.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description 2014 inspection photo. 03794 Bt 3 cap spalls with exposed steel.

Stage: Assigned



PHOTO 2 Description Spall @ Bt. 3 cap, back.

Inspector:

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Maintenance Needs

Date Reported: 06/24/2015

Priority: D - Routine

Work Code:

Deficiency Description:

Sealable deck cracks all spans, bent 2 right has several small potholes, no exposed steel. Both approach spans have cracks.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description 03794 deck cracks span 1 rt.

Stage: Monitor



PHOTO 2 Description

Inspector:

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Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 3 Description

Stage: Open



PHOTO 5 Description 03794 span 4 lt. Cracks

Stage: Open



PHOTO 4 Description 03794 span 2 right deck cracks and potholes.