

Bridge Inspection Report

05522
SH7 S-3 LM 14.28
over
TWO BAYOU



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

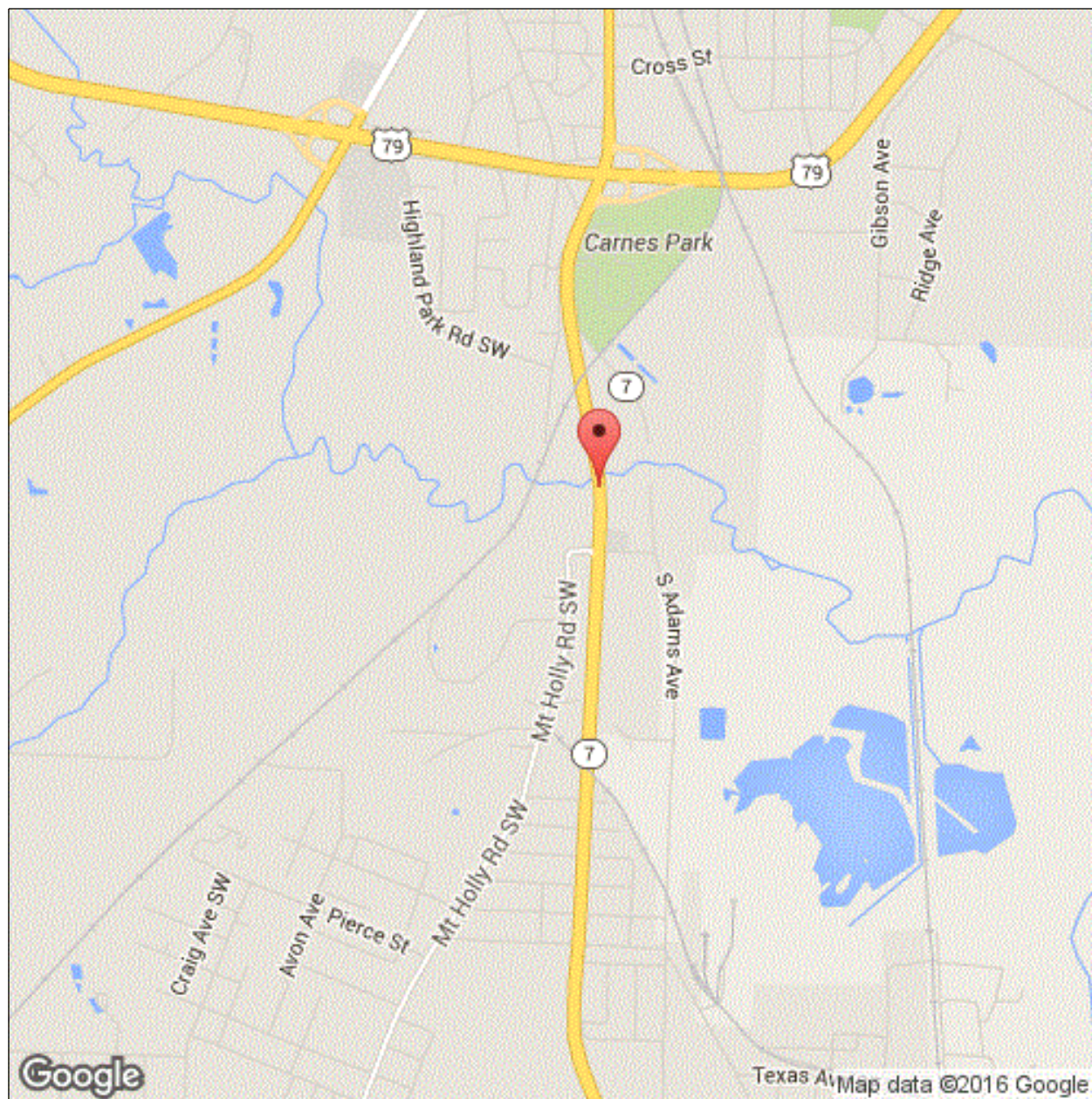
Structure Number: 05522

Inspection Date:

Facility Carried: SH7 S-3 LM 14.28

Bridge Inspection Report

Location Map



Latitude: 33.55823

Longitude: -92.82781

Inspector:

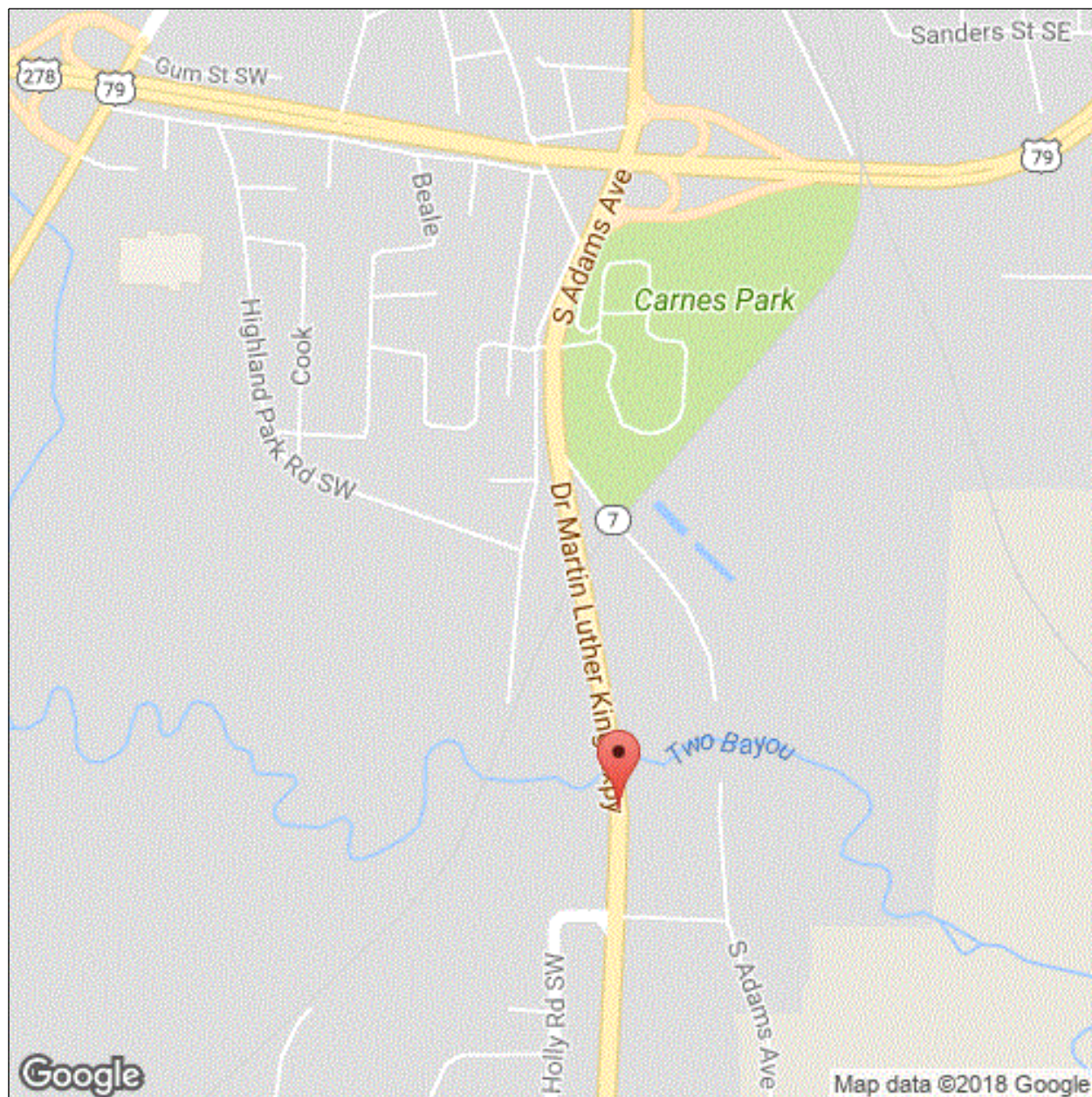
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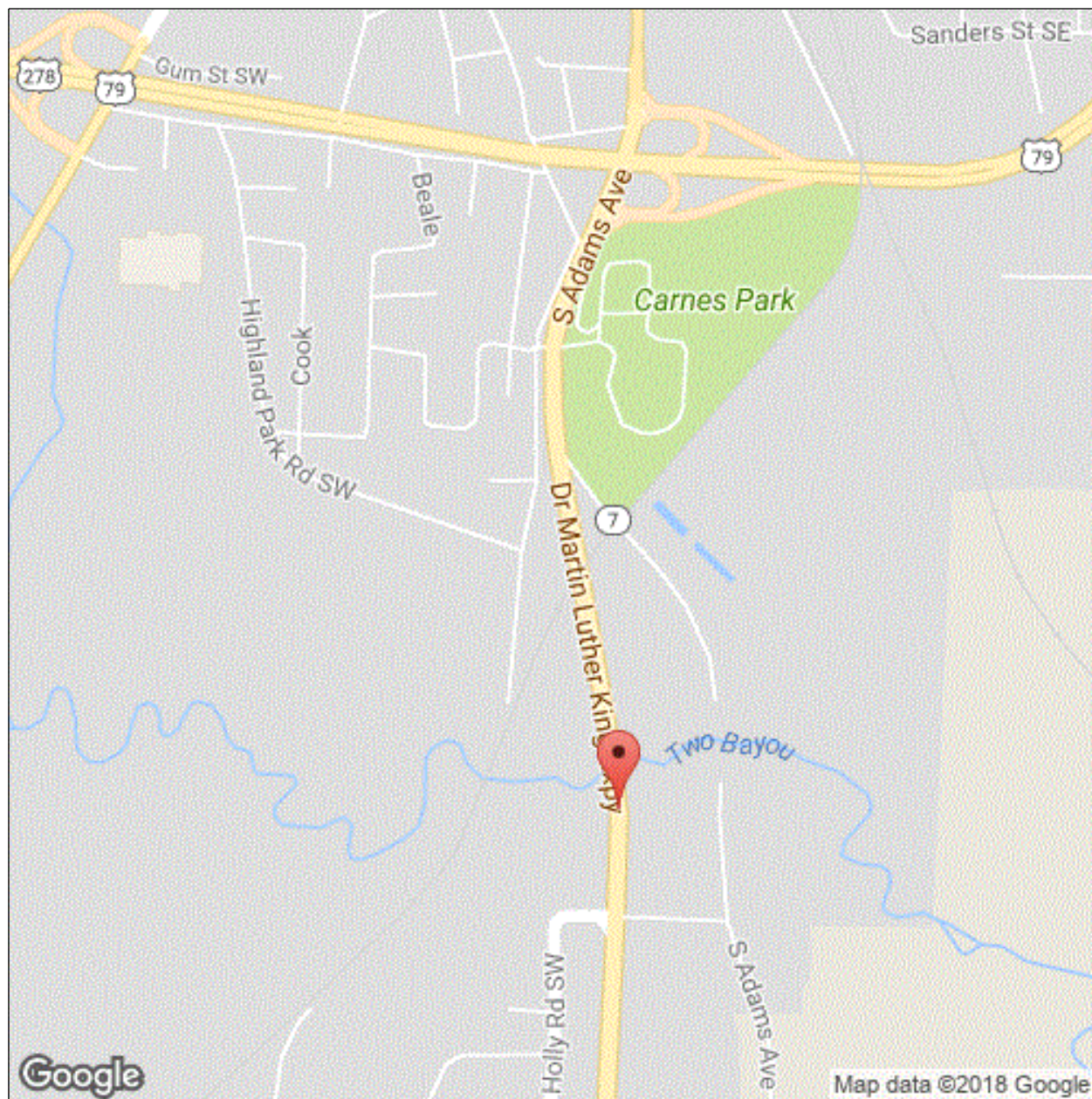
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Executive Summary

This structure is logged from South to North.

Inspector:

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	03/21/2018
(8) STRUCTURE NUMBER	05522	(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
(4) PLACE CODE	10280	A. FRACTURE CRITICAL DETAIL	N
(6) FEATURES INTERSECTED	TWO BAYOU	B. UNDERWATER INSPECTION	N
(7) FACILITY CARRIED	SH7 S-3 LM 14.28	C. OTHER SPECIAL	N
(9) LOCATION	.76 MI SO JCT US79&SH4	CONDITION	
(11) MILEPOINT	14.287	(58) DECK	7
(12) BASE HIGHWAY NETWORK	1	(59) SUPERSTRUCTURE	7
(13A) LRS INVENTORY ROUTE	0000007030	(60) SUBSTRUCTURE	8
(13B) SUBROUTE NUMBER	00	(61) CHANNEL & CHANNEL PROTECTION	7
(16) LATITUDE	33.55823	(62) CULVERT	N
(17) LONGITUDE	-92.82781	LOAD RATING AND POSTING	
(98A) BORDER BRIDGE CODE		(31) DESIGN LOAD	5
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT	(63) METHOD USED TO DETERMINE OPERATING RATING	1
STRUCTURE TYPE AND MATERIAL		(64) OPERATING RATING	60.0
(43) STRUCTURE TYPE, MAIN		(65) METHOD USED TO DETERMINE INVENTORY RATING	1
A) KIND OF MATERIAL/DESIGN:	1 - Concrete	(66) INVENTORY RATING	36.0
B) TYPE OF DESIGN/CONSTR:	01 - Slab	(70) BRIDGE POSTING	5
(44) STRUCTURE TYPE, APPROACH SPANS		(41) STRUCTURE OPEN/POSTED/CLOSED	A
A) KIND OF MATERIAL/DESIGN:	0 - Other	APPRAISAL	
B) TYPE OF DESIGN/CONSTR:	00 - Other	(67) STRUCTURAL EVALUATION	7
(45) NUMBER OF SPANS IN MAIN	9	(68) DECK GEOMETRY	6
(46) NUMBER OF APPROACH	0	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(107) DECK STRUCTURE TYPE	1	(71) WATERWAY ADEQUACY	8
(108A) WEARING SURFACE	1	(72) APPROACH ROADWAY ALIGNMENT	8
(108B) DECK MEMBRANE	0	(36) TRAFFIC SAFETY FEATURE	
(108C) DECK PROTECTION	0	36A) BRIDGE RAILINGS:	1
AGE OF SERVICE		36B) TRANSITIONS:	1
(27) YEAR BUILT	1976	36C) APPROACH GUARDRAIL:	1
(106) YEAR RECONSTRUCTED	0000	36D) APPROACH GUARDRAIL ENDS:	1
(42) TYPE OF SERVICE	ON 1 UNDER 5	(113) SCOUR CRITICAL BRIDGES	5
(28) LANES	ON 04 UNDER 00	SUFFICIENCY RATING	90.5
(29) AVERAGE DAILY TRAFFIC	9000	STATUS	0
(19) BYPASS DETOUR LENGTH	6	CLASSIFICATION	
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(112) NBIS BRIDGE LENGTH	Y
(109) AVERAGE DAILY TRUCK TRAFFIC	1	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
GEOMETRIC DATA		(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	12
(48) LENGTH OF MAX SPAN (ft.)	35	(100) STRAHNET HIGHWAY DESIGNATION	0
(49) STRUCTURE LENGTH (ft.)	315	(101) PARALLEL STRUCTURE DESIGNATION	N
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0 RIGHT 0	(102) DIRECTION OF TRAFFIC	2
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	66.3	(103) TEMP STRUCTURE	
(52) DECK WIDTH, OUT-TO-OUT (ft.)	72.0	(105) FEDERAL LANDS HIGHWAYS	0
(32) APPROACH ROADWAY WIDTH (ft.)	76.1	(110) DESIGNATED NATIONAL NETWORK	0
(33) BRIDGE MEDIAN	2	(20) TOLL	3
(34) SKEW (DEG.)	0	(21) MAINTENANCE RESPONSIBILITY	01
(35) STRUCTURE FLARED	0	(22) OWNER	01
(10) INV RTE, MIN VERT CLEAR (ft.)	99.99	(37) HISTORICAL	5
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	67.3	NAVIGATION DATA	
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	(38) NAVIGATION CONTROL	0
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	(111) PIER OR ABUTMENT PROTECTION	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(39) NAV VERT CLEARANCE (ft.)	0
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
PROPOSED IMPROVEMENTS		(40) NAV HORIZONTAL CLEARANCE (ft.)	0
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY		
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0		
(94) BRIDGE IMPROVEMENT COST (\$)	0		
(95) ROADWAY IMPROVEMENT COST (\$)	0		
(96) TOTAL PROJECT COST	0		
(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(114) FUTURE ADT	10427		
(115) YEAR OF FUTURE ADT	2028		

Inspector:

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Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
38 - Reinforced Concrete Slab	1- Ben.	22680	sq. ft.	16975	5697	8	0
1080 - Delamination/Spall/Patched Area		8				8	
1130 - Cracking (RC and Other)		2268			2268		
1190 - Abrasion/Wear (PSC/RC)		3429			3429		
215 - Reinforced Concrete Abutment	1- Ben.	139	ft.	139			
227 - Reinforced Concrete Pile	1- Ben.	80	each	34	46	0	0
Local scour bents 8-9. 03/21/2018 JPR -- Bents 5, 6, & 7 have abrasion and wear to bottom of piling where water has eroded the outer shell of the piling.							
1190 - Abrasion/Wear (PSC/RC)		30			30		
6000 - Scour		16			16		
234 - Reinforced Concrete Pier Cap	1- Ben.	629	ft.	619	0	10	0
1080 - Delamination/Spall/Patched Area		10				10	
301 - Pourable Joint Seal	1- Ben.	687	ft.	0	416	271	0
Bents 1 & 10, joints between BR begin and BR end have compaction to point that approach slabs have fallen off of the paving notch on NB lanes both abutments. Bent 3 & 5 have some minor impaction and some seal damage. Bents 2, 4, 6, 8, and 9 have some leakage and seal adhesion.							
2310 - Leakage		208			208		
2320 - Seal Adhesion		208			208		
2330 - Seal Damage		134				134	
2350 - Debris Impaction		137				137	
321 - Reinforced Concrete Approach Slab	1- Ben.	5040	sq. ft.	4575	465	0	0
Potholes, wear and cracks. 03/21/2018 JPR -- Approach Slabs have AC overlay on them now. Both abutments on both NB & SB lanes have settlement @ BR ends.							
1080 - Delamination/Spall/Patched Area		101			101		
1130 - Cracking (RC and Other)		252			252		
4000 - Settlement		112			112		

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Bridge Inspection Report

Pictures

PHOTO 1

Description

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Bridge Inspection Report

Sketches

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 3/13/2014 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Span 1 Rt. of center @ mid-span (1 1/2' x 2') spall on soffit with exposed rebar with moderate section loss. There is a scour hole in abutment slope below this spall, therefore appears water is coming through from above.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 3/13/2014 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Bents 1 & 10 Joints are rough entire width. Joints are wide and joint material has slumped.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 3/13/2014 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Span 9 under drain hole beside island and about mid-span there is a large scour hole from water draining off of the bridge, this scour hole also runs down abutment slope.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

Structure Number: 05522

Inspection Date:

Facility Carried: SH7 S-3 LM 14.28

Bridge Inspection Report

Maintenance Needs

Date Reported: 03/21/2018

Priority: D - Routine

Work Code:

Deficiency Description:

Approach Slabs @ Abutment 1, both NB & SB lanes have settlement @ BR Begin, between 1" - 1 1/2". The joint between the approach slab and BR end has grown over the years, see photo below showing the gap.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Abutment 1 joint

Stage: Open



PHOTO 2 Description Roadway settlement at abutment 1

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Maintenance Needs

Stage: Open

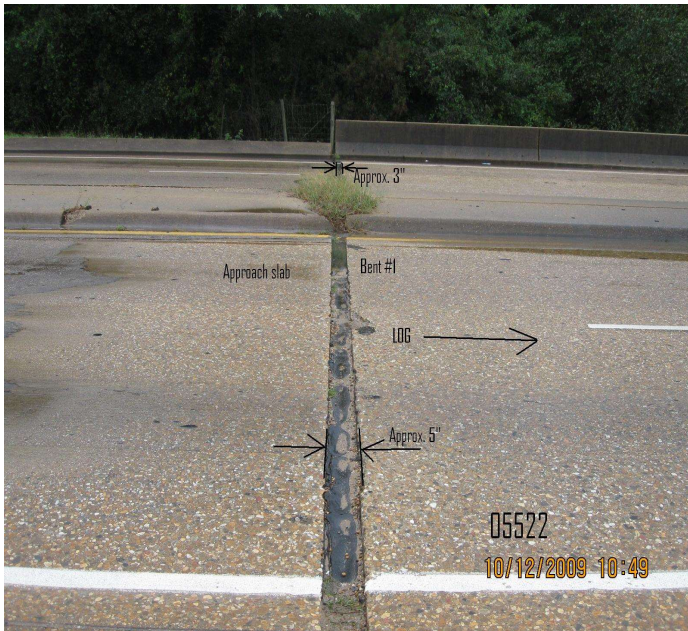


PHOTO 3 Description Abutment 1, both NB & SB lanes joint between BR end and approach slab has gotten wider over the years.

Stage: Open



PHOTO 4 Description Joint between appr. slab and BR end NB lane @ white line Rt. side.