

Bridge Inspection Report

A5039

I-40-SEC 21-WB LNS

over

Middle Fk Horsehead Cr.



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

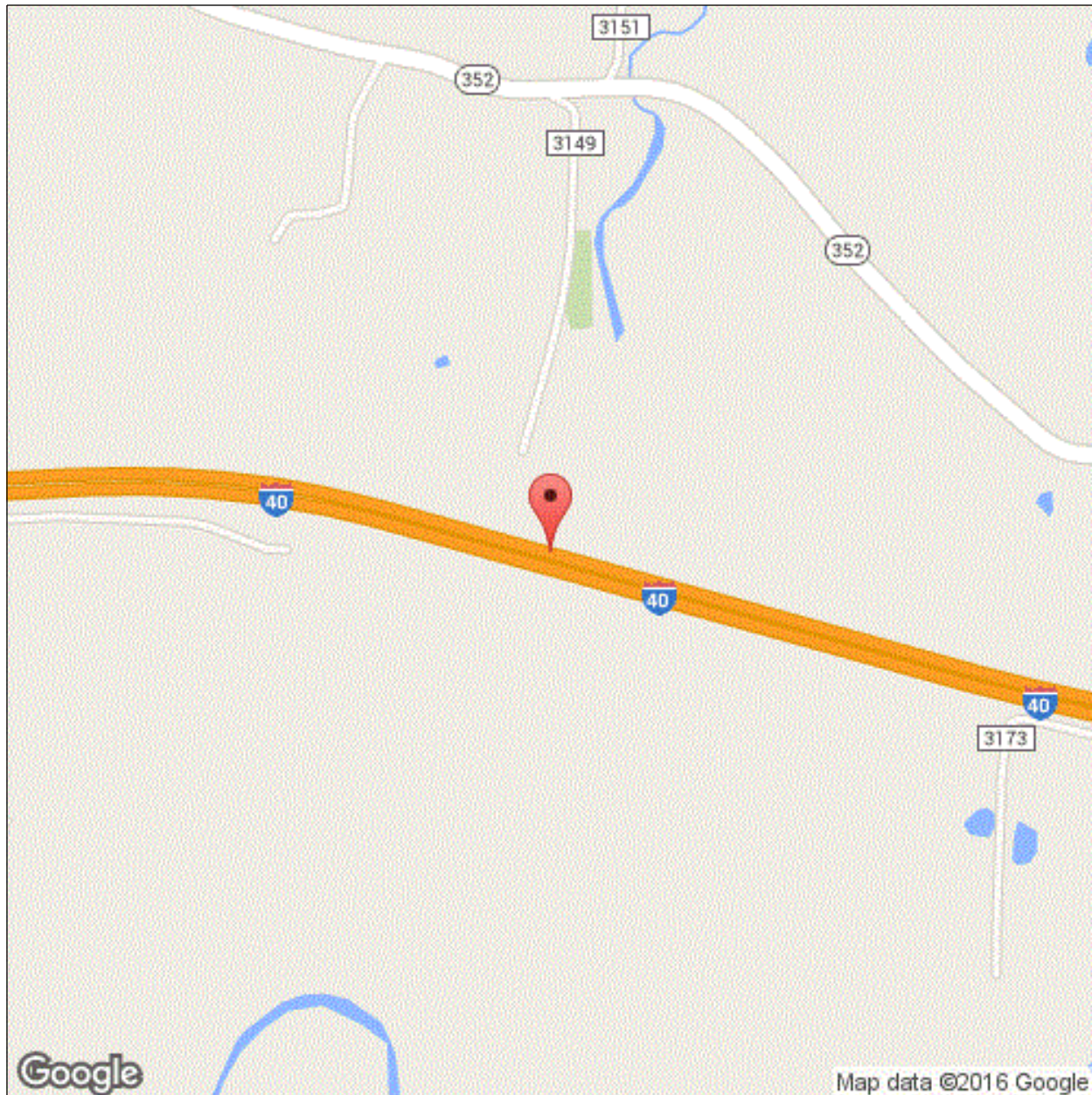
Inspection Date:

Structure Number: A5039

Facility Carried: I-40-SEC 21-WB LNS

Bridge Inspection Report

Location Map



Latitude: 35.49681

Longitude: -93.63520

Inspector:

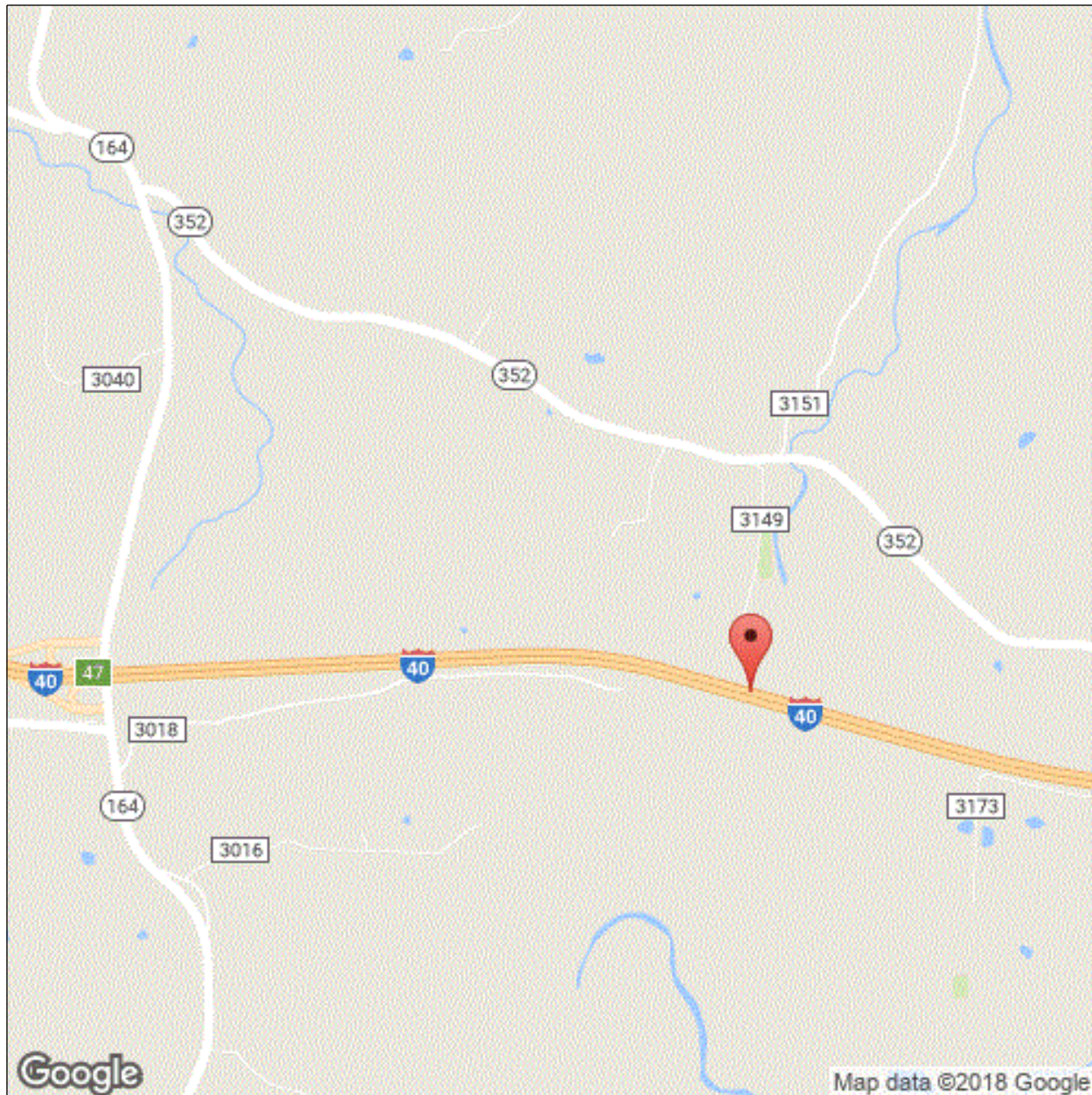
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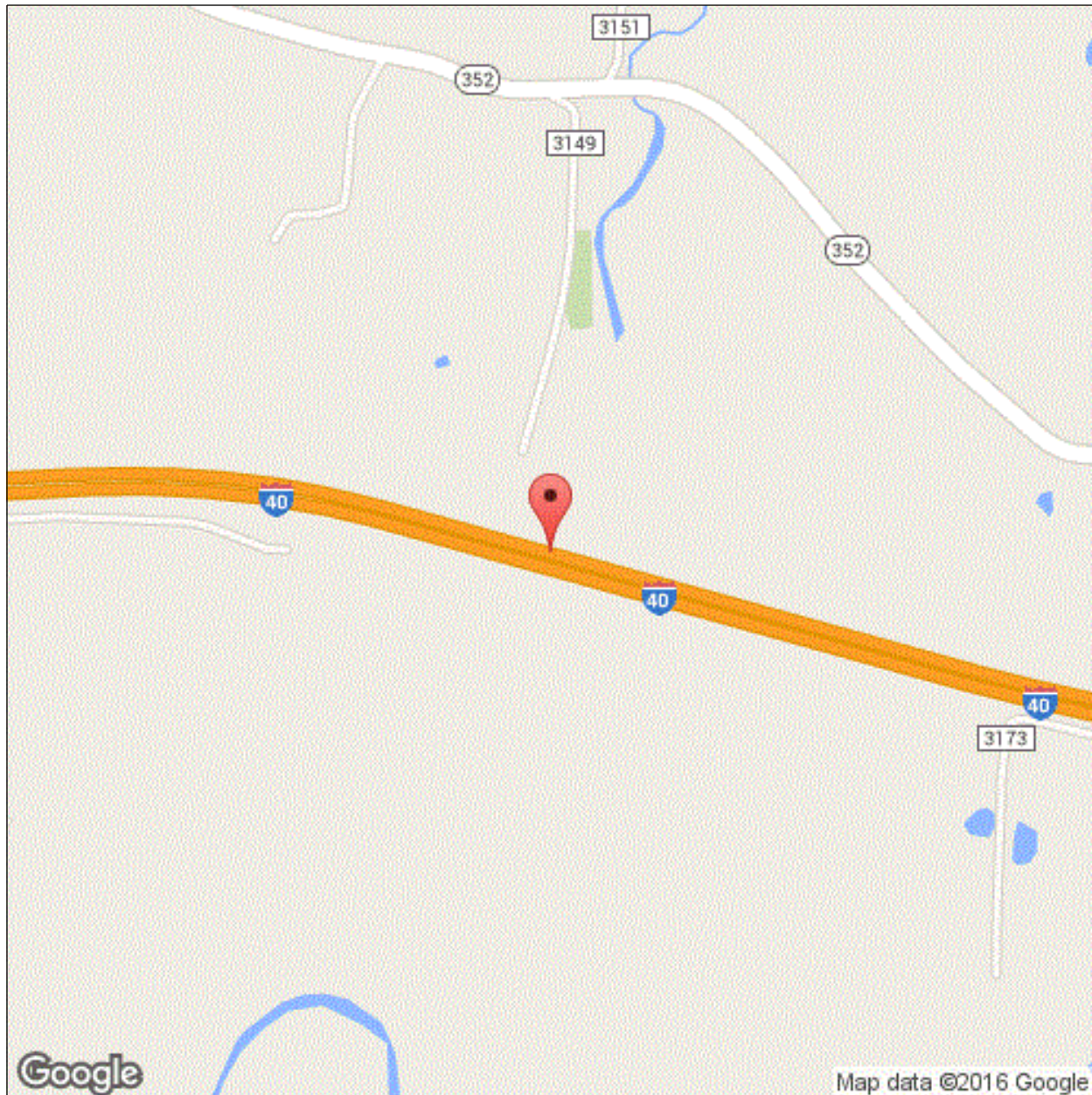
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Bridge Inspection Report

Executive Summary

Inspector:

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	03/06/2018
(8) STRUCTURE NUMBER	A5039	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 1 1 40 4	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	08 (3) COUNTY CODE 071	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Middle Fk Horsehead Cr.	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	I-40-SEC 21-WB LNS		
(9) LOCATION	1.44 MI E OF SH 164		
(11) MILEPOINT 47.950	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000040210 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.49681	(17) LONGITUDE -93.63520		
(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 7	(60) SUBSTRUCTURE 7
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(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 1		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1968	(106) YEAR RECONSTRUCTED 0000	(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 31702	(19) BYPASS DETOUR LENGTH 20	(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.) 72	(49) STRUCTURE LENGTH (ft.) 218	(67) STRUCTURAL EVALUATION	7
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	6
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 39.0		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 42.1		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 40.0		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 20	(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.) 40.4		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	8
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		SUFFICIENCY RATING	84.0 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	01
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	1
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	L
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	1
(114) FUTURE ADT 14048	(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
12 - Reinforced Concrete Deck	1- Ben.	8720	sq. ft.	1000	5720	2000	0
	MODERATE TO MAJOR CRACKING & MODERATE SCALE THROUGHOUT. MINOR "D" CRACKING & SPALLING AT JOINTS. MINOR CRACKING W / EFFLOR IN SOFFIT. MINOR DELAM, CRACKING & SPALLING W / REBAR EXPOSED AROUND DECK DRAINS.						
1080 - Delamination/Spall/Patched Area		720			720		
1130 - Cracking (RC and Other)		5000			3000	2000	
1190 - Abrasion/Wear (PSC/RC)		2000			2000		
107 - Steel Open Girder/Beam	1- Ben.	1512	ft.	1492	20	0	0
	MINOR RUST IN HAUNCHED AREAS ON SOME BEAMS.						
1000 - Corrosion		20			20		
515 - Steel Protective Coating		12776	sq. ft.	12756	0	20	0
3440 - Effectiveness (Steel Protective Coatings)		20				20	
205 - Reinforced Concrete Column	1- Ben.	6	each	6			
	MINOR CRACKING & SCALE.						
215 - Reinforced Concrete Abutment	1- Ben.	90	ft.	90			
	MINOR CRACKING.						
234 - Reinforced Concrete Pier Cap	1- Ben.	84	ft.	84			
	MINOR CRACKING & SCALE.						
302 - Compression Joint Seal	1- Ben.	166	ft.	0	26	100	40
	MODERATE DELAM & CRACKING IN ALL SEALS. SEALS 1, 2 & 3 HAVE SEVERAL FAILED AREAS. APPROX. 4' OF JOINT ARMOR MISSING AT ABUTMENT 1 IN RT. LANE ON BACK WALL. MINOR "D" CRACKING & SPALLING AT JOINTS.						
2310 - Leakage		40					40
2330 - Seal Damage		100				100	
2360 - Adjacent Deck or Header		26			26		
311 - Movable Bearing	1- Ben.	21	each	21			
	MINOR RUST ON ALL BEARINGS						
515 - Steel Protective Coating		63	sq. ft.	33	30	0	0
3440 - Effectiveness (Steel Protective Coatings)		30			30		

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Element Inspection

313 - Fixed Bearing	1- Ben.	21	each	21			
MINOR RUST ON ALL BEARINGS							
515 - Steel Protective Coating		63	sq. ft.	33	30	0	0
3440 - Effectiveness (Steel Protective Coatings)		30			30		
321 - Reinforced Concrete Approach Slab	1- Ben.	2847	sq. ft.	2447	400	0	0
MINOR CRACKING.							
1130 - Cracking (RC and Other)		400			400		
330 - Metal Bridge Railing	1- Ben.	436	ft.	436			
Aluminum Rail							
331 - Reinforced Concrete Bridge Railing	1- Ben.	436	ft.	436			
MINOR SCALE IN CONCRETE							

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Pictures

PHOTO 1

Description

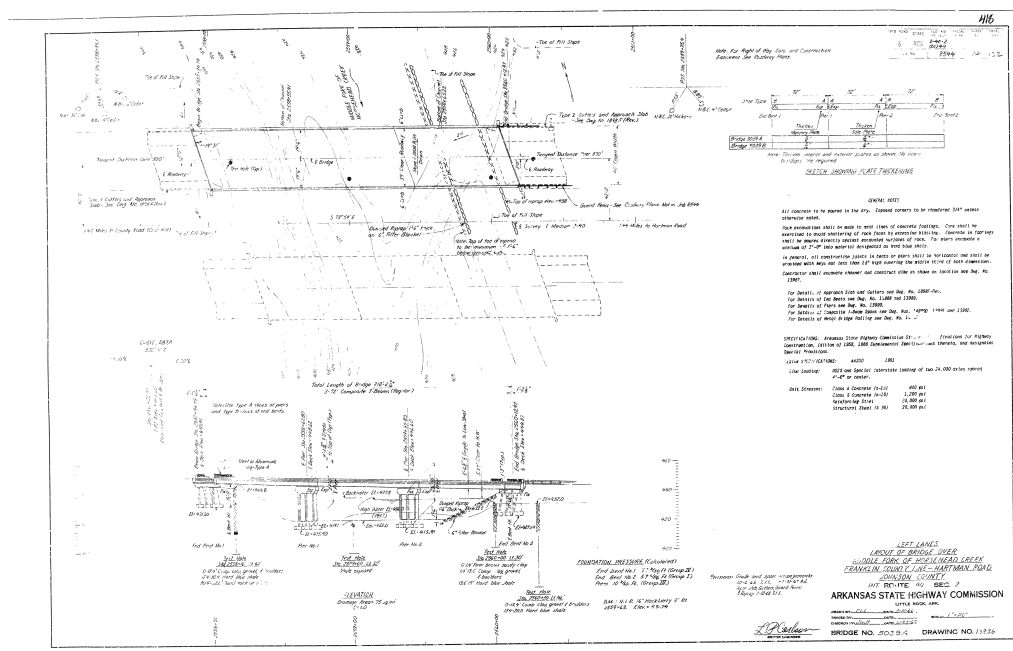


PHOTO 1

Description

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Bridge Inspection Report

Sketches

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Bridge Inspection Report

Maintenance Needs

Date Reported: 2/22/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Channel:

Drift at upstream side of pier # 3.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Drift at Pier 3.

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Bridge Inspection Report

Maintenance Needs

Date Reported: 2/22/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Deck joint #s 1, 2 & 3.
A portion of joint material is missing at these joints.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Joint Seals missing

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Bridge Inspection Report

Maintenance Needs

Date Reported: 2/22/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Abutment # 1, joint at headwall.

The right end of the joint armor in the left lane is slightly loose.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Joint Armor missing at Abutment 1.

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Maintenance Needs

Date Reported: 03/06/2018

Priority: D - Routine

Work Code:

Deficiency Description:

MINOR TO MODERATE CRACKING THROUGHOUT DECK.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Typ. Cracking in Deck.

Stage: Open



PHOTO 2 Description Typ. Cracking in Deck.