

Bridge Inspection Report

B5038
I-40, EB LNS
over
Dirty Creek



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

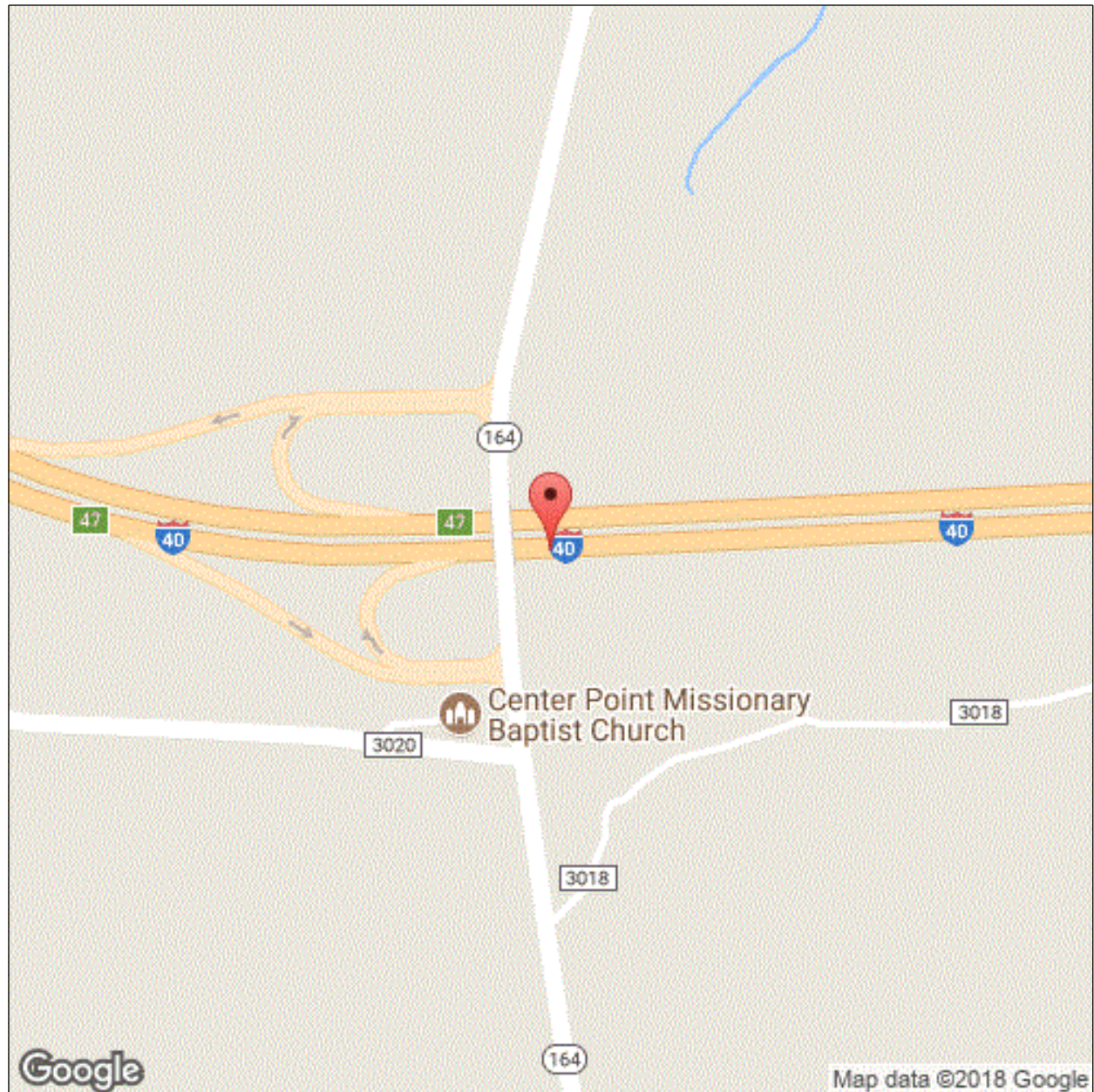
Inspection Date:

Structure Number: B5038

Facility Carried: I-40, EB LNS

Bridge Inspection Report

Location Map



Latitude: 35.49723

Longitude: -93.66014

Inspector:

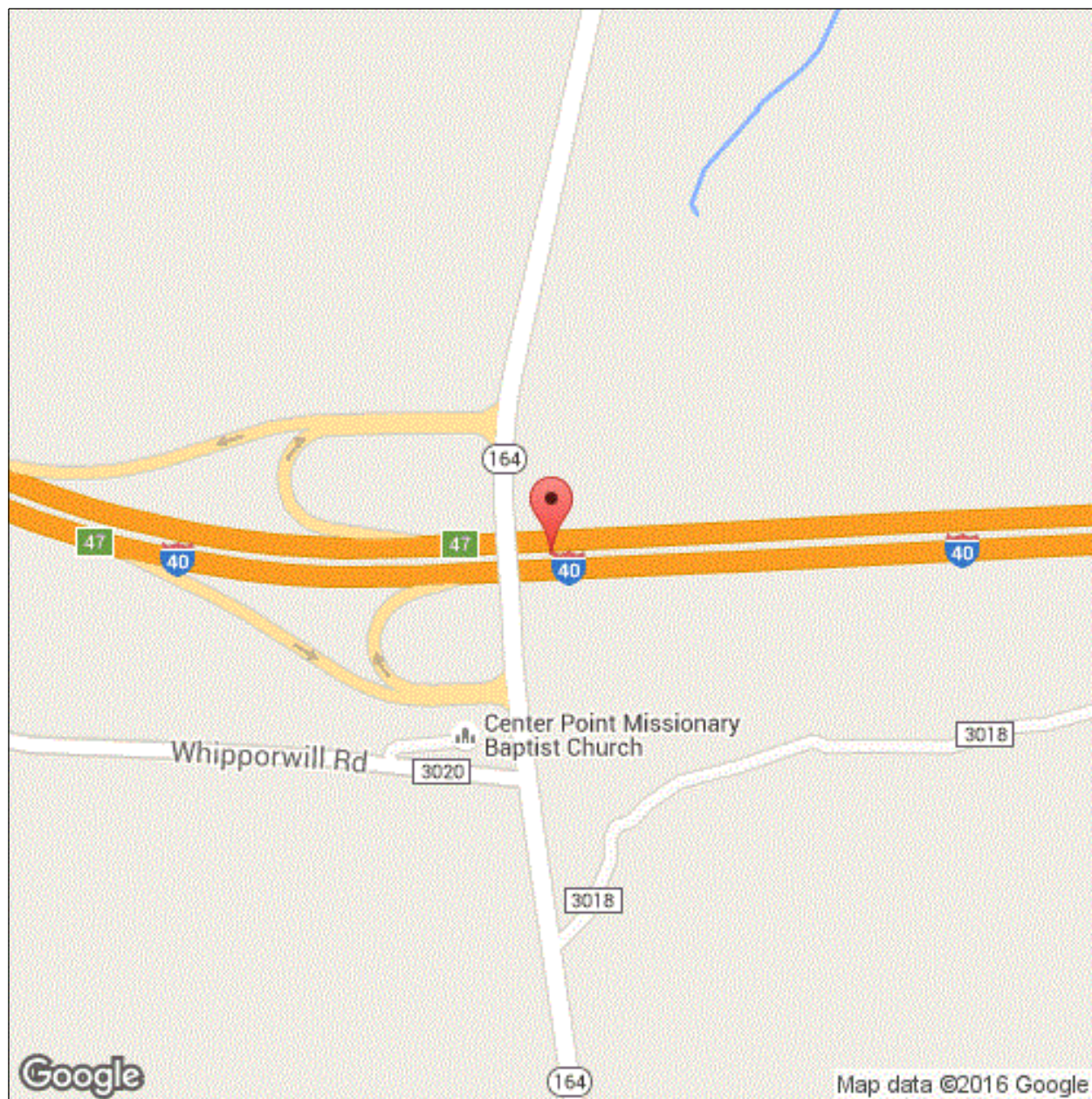
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Bridge Inspection Report

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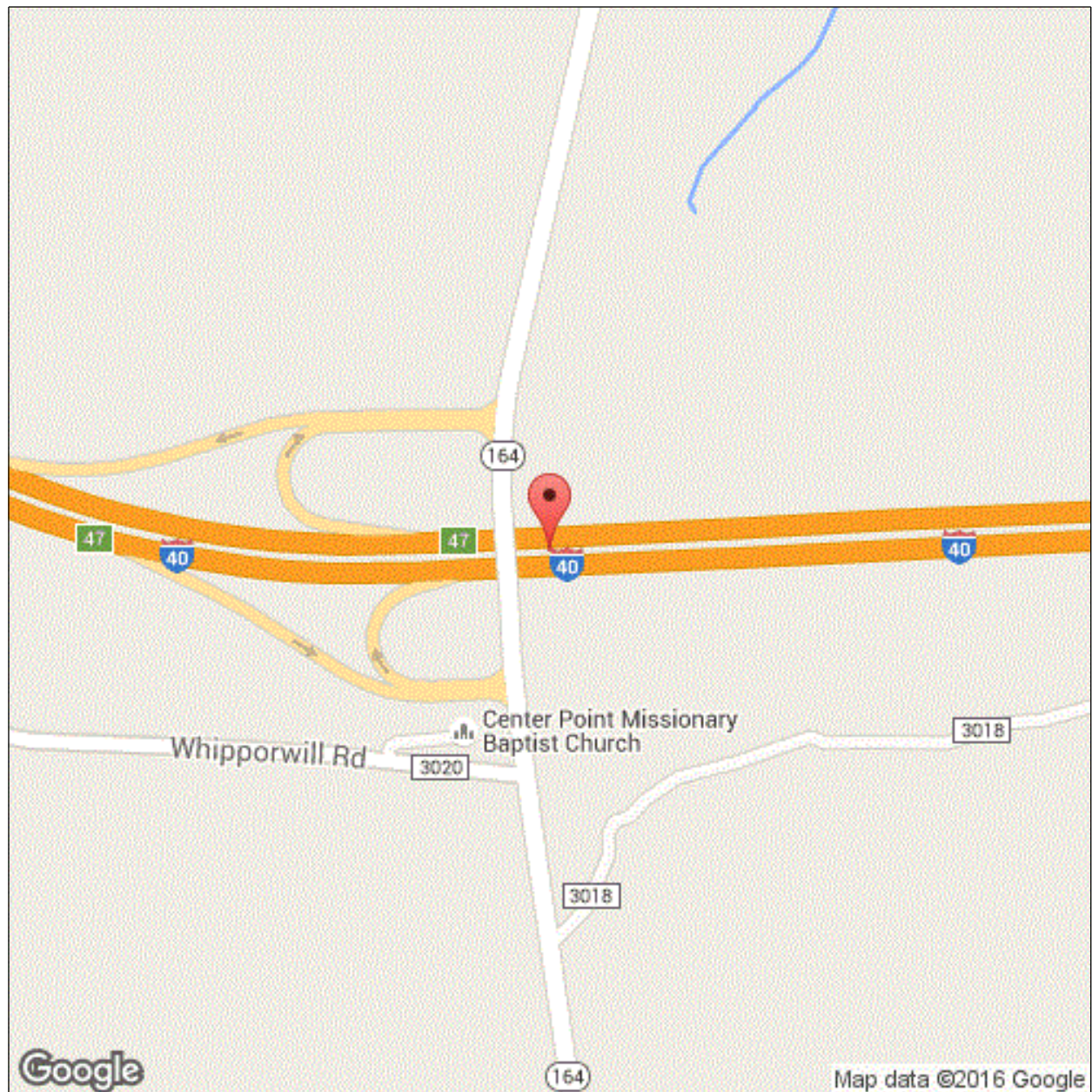
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Location Map



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Inspector:

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Bridge Inspection Report

Executive Summary

Inspector:

Structure Number: B5038

Inspection Date:

Facility Carried: I-40, EB LNS

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	01/31/2018
(8) STRUCTURE NUMBER	B5038	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 1 1 40 2	(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	Dirty Creek	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	I-40, EB LNS		
(9) LOCATION	0.03 MI E OF SH 164		
(11) MILEPOINT 46.540	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000040210 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.49723	(17) LONGITUDE -93.66014		
(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: 1 - Concrete		(59) SUPERSTRUCTURE	5 (60) SUBSTRUCTURE 6
B) TYPE OF DESIGN/CONSTR: 01 - Slab		(61) CHANNEL & CHANNEL PROTECTION	7 (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 5	(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 03 UNDER 00		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 22000	(19) BYPASS DETOUR LENGTH 18	(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.) 28	(49) STRUCTURE LENGTH (ft.) 140	(67) STRUCTURAL EVALUATION	5
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	4
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 46.9		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 50.4		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 47.9		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 1	(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.) 48.2		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	71.0 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	R
(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

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.	7000	sq. ft.	3474	3106	420	0
	MAJOR LONG. & TRANS. CRACKING THROUGHOUT DECK. MINOR SCALE THROUGHOUT. SPAN 3 - MODERATE SPALLING (W / REBAR EXPOSED) AHD. SIDE OF JOINT 3. MINOR DIAGONAL CRACKING & SPALLING IN SIDE OF SLABS OVER PIERS 3 & 4 ON BOTH RT. & LT. SIDES. SOFFIT - MODERATE TO MAJOR LONG. CRACKING W / EFFLOR. THROUGHOUT. MAJOR DELAM. NEAR ABUTMENT 1 & IN SPANS 1, 2, 3 & 4 NEAR CENTERLINE.						
1080 - Delamination/Spall/Patched Area		6			6		
1130 - Cracking (RC and Other)		3520			3100	420	
205 - Reinforced Concrete Column	1- Ben.	16	each	16			
234 - Reinforced Concrete Pier Cap	1- Ben.	304	ft.	267	15	22	0
	COND.1 - 267 LF - MINOR CRACKING COND. 2 - 15 LF - MINOR DELAM CRACKING & SPALLING (NO REBAR EXPOSED) IN BK FACE OF CAP 4. COND. 3 - 22 LF - MODERATE DELAM, CRACKING & SPALLING W / REBAR EXPOSED IN LT. END OF CAP 4. MAJOR DELAM, CRACKING & SAPLING W / REBAR EXPOSED IN AHD FACE OF CAP 5. MINOR DELAM IN FACE OF CAP 5.						
1080 - Delamination/Spall/Patched Area		22				22	
1090 - Exposed Rebar		15			15		
321 - Reinforced Concrete Approach Slab	1- Ben.	3478	sq. ft.	3348	130	0	0
	Approach slab west has moderate cracking, approach slab at east end has minor spalling and major transverse cracking.						
1080 - Delamination/Spall/Patched Area		10			10		
1130 - Cracking (RC and Other)		120			120		
330 - Metal Bridge Railing	1- Ben.	280	ft.	280			
	ALUMINUM						
331 - Reinforced Concrete Bridge Railing	1- Ben.	280	ft.	280			

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Pictures

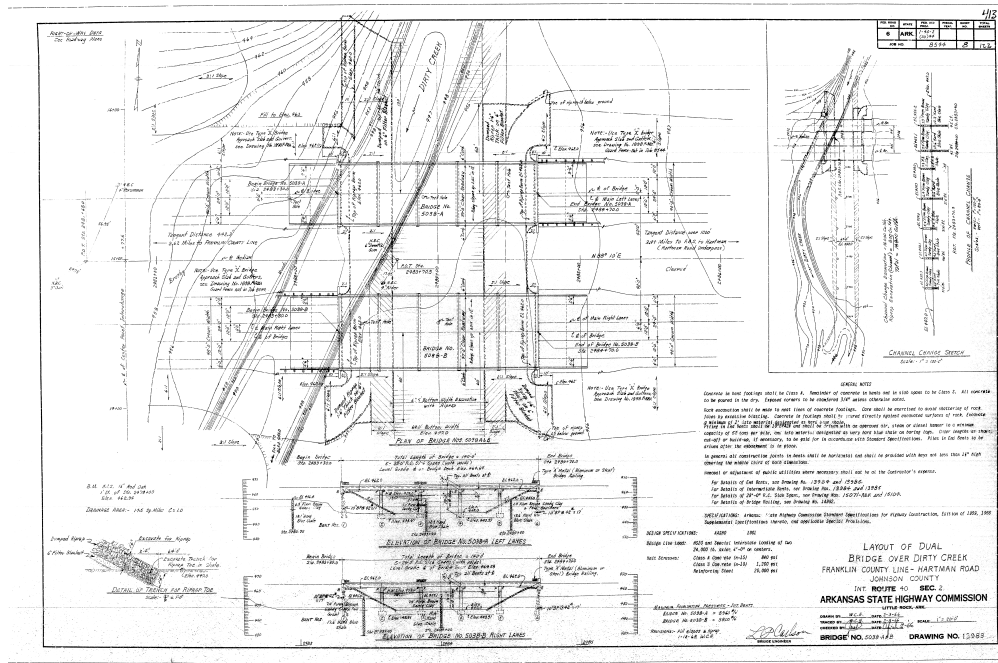


PHOTO 1

Description

Inspector:

Inspection Date:

Structure Number: B5038

Facility Carried: I-40, EB LNS

Bridge Inspection Report

Sketches

Inspector:

Structure Number: B5038

Inspection Date:

Facility Carried: I-40, EB LNS

Bridge Inspection Report

Maintenance Needs

Date Reported: 1/11/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Underside of deck slab, All spans.

Major longitudinal cracking. Also major delamination in span # 1 near abutment # 1.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Typ. Delam & Cracking in Soffit under
Long Cracks in Deck.

Inspector:

Structure Number: B5038

Inspection Date:

Facility Carried: I-40, EB LNS

Bridge Inspection Report

Maintenance Needs

Date Reported: 1/11/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Span # 3, just ahead of joint # 3.
Moderate spalling.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Typ. Condition of Joints.

Inspector:

Structure Number: B5038

Inspection Date:

Facility Carried: I-40, EB LNS

Bridge Inspection Report

Maintenance Needs

Date Reported: 1/11/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Left end of cap 4
major cracking and delamination.
Minor delam, cracking & spalling in Bk. Face of cap 4 above column 3

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Minor Delam & Spalling in Bk. Face
Cap 4 above Column 3.

Stage: Monitor



PHOTO 2 Description Delam, Cracking & Spalling in Lt. End
of Cap 4 Bk. Side.

Inspector:

Structure Number: B5038

Inspection Date:

Facility Carried: I-40, EB LNS

Bridge Inspection Report

Maintenance Needs

Date Reported: 1/11/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Aheadside of cap at pier # 5.
Spalling with rebar exposed.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Delam, Cracking & Spalling W / Rebar
Exposed in Ahd. Face of Cap 5.

Inspector:

Structure Number: B5038

Inspection Date:

Facility Carried: I-40, EB LNS

Bridge Inspection Report

Maintenance Needs

Date Reported: 1/11/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Bridge deck; All spans

Major unsealed longitudinal cracking. Also some transverse cracking,

Picture included.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Typ. Condition of Deck.

Stage: Monitor



PHOTO 2 Description Typ. Long Cracking in all Spans.

Inspector:

Inspection Date:

Structure Number: B5038

Facility Carried: I-40, EB LNS

Bridge Inspection Report

Maintenance Needs

Stage: Monitor

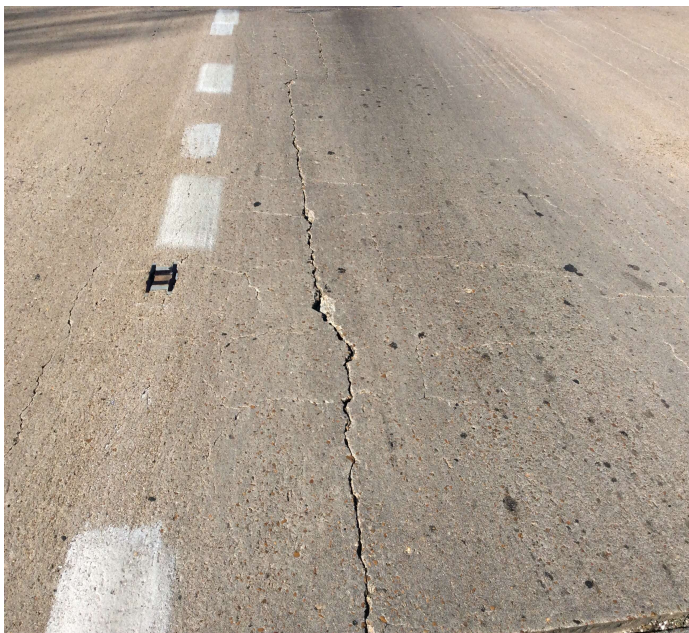


PHOTO 3 Description Typ. Long Cracking in Deck.

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Bridge Inspection Report

Maintenance Needs

Date Reported: 01/31/2018

Priority: D - Routine

Work Code:

Deficiency Description:

MINOR BRUSH, VEG. SILT & SMALL BEAVER DAM IN CHANNEL BLOCKING FLOW ON RT. (DN) SIDE.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Brush, Veg, Silt & Small Beaver Dam in Channel Blocking on Rt. (Dn) Side.