

Bridge Inspection Report

B6518
I-40EB/Se51/234.04
over
Languille River



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

Structure Number: B6518

Inspection Date:

Facility Carried: I-40EB/Se51/234.04

Bridge Inspection Report

Location Map



Latitude: 34.988972

Longitude: -90.891838

Inspector:

Structure Number: B6518

Inspection Date:

Facility Carried: I-40EB/Se51/234.04

Bridge Inspection Report

Location Map



Latitude: 34.988972

Longitude: -90.891838

Inspector:

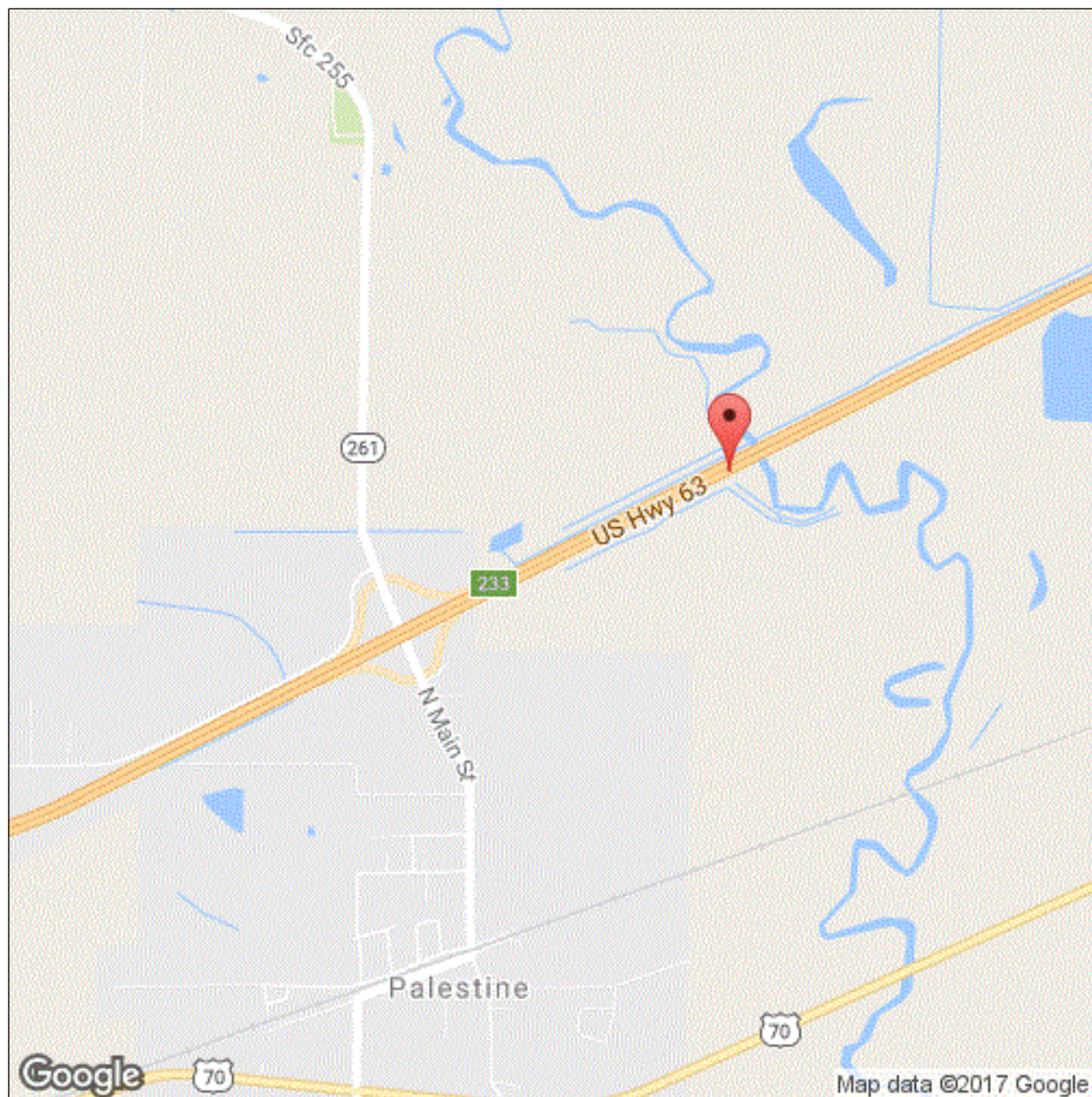
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Bridge Inspection Report

Location Map



Latitude: 34.988972

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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	01/29/2019
(8) STRUCTURE NUMBER	B6518	(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	01 (3) COUNTY CODE 123	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Languille River	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	I-40EB/Se51/234.04		
(9) LOCATION	0.82 Miles Ne Of Sh 261		
(11) MILEPOINT 234.040	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000040510 (13B) SUBROUTE NUMBER -1		
(16) LATITUDE	34.988972 (17) LONGITUDE -90.891838		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	7
A) KIND OF MATERIAL/DESIGN:	4 - Steel continuous	(59) SUPERSTRUCTURE	8 (60) SUBSTRUCTURE 8
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder	(61) CHANNEL & CHANNEL PROTECTION	8 (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	7 (46) NUMBER OF APPROACH		
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE		
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1998 (106) YEAR RECONSTRUCTED	(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	33469 (19) BYPASS DETOUR LENGTH	(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	51	(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	150 (49) STRUCTURE LENGTH (ft.)	(67) STRUCTURAL EVALUATION	8
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0 RIGHT 0	(68) DECK GEOMETRY	7
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	40	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	42.8	(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.)	40.0	(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	36A) BRIDGE RAILINGS:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	41.3	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	5
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	SUFFICIENCY RATING	90.2 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	19965 (115) YEAR OF FUTURE ADT	(103) TEMP STRUCTURE	
	2028	(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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Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	33836	sq. ft.	26435	7401	0	0
	Deck has transverse and longitudinal cracks some have been sealed with epoxy spaced four to five feet apart. Soffit overhangs have transverse cracks with light efflorescence spaced three to four feet apart.						
1120 - Efflorescence/Rust Staining		792		0	792	0	0
1130 - Cracking (RC and Other)		6609		0	6609	0	0
107 - Steel Open Girder/Beam	1- Ben.	3950	ft.	3950	0	0	0
	Span #1 girder #4 diaphragm bolts are loose. Span #3 bent #4 girder #5 lower diaphragm connection has several loose bolts.						
515 - Steel Protective Coating		31680	sq. ft.	31680	0	0	0
210 - Reinforced Concrete Pier Wall	1- Ben.	240	ft.	240	0	0	0
215 - Reinforced Concrete Abutment	1- Ben.	122	ft.	122	0	0	0
	Abutment back walls have vertical open hairline cracks.						
234 - Reinforced Concrete Pier Cap	1- Ben.	83	ft.	83	0	0	0
300 - Strip Seal Expansion Joint	1- Ben.	86	ft.	86	0	0	0
301 - Pourable Joint Seal	1- Ben.	12	ft.	0	0	12	0
	Abutment #1 road iron on back wall in both lanes have been removed. Abutment #1 pourable seal in left lane only with loss of adhesive.						
2310 - Leakage		12		0	0	12	0
302 - Compression Joint Seal	1- Ben.	74	ft.	34	0	0	40
	Abutment #1 road iron on back wall in both lanes have been removed. Abutment #1 right lane seal has fallen out and has a pourable seal in left lane only with loss of adhesive. Abutment #2 right lane seal has fallen out and is a compressible joint seal.						
2310 - Leakage		40		0	0	0	40
310 - Elastomeric Bearing	1- Ben.	50	each	50	0	0	0
321 - Reinforced Concrete Approach Slab	1- Ben.	1752	sq. ft.	1269	0	483	0
	All slabs have open transverse and longitudinal cracks.						
1130 - Cracking (RC and Other)		483		0	0	483	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	1584	ft.	1267	317	0	0
	Rails have vertical cracks spaced four to five feet apart with light efflorescence.						
1120 - Efflorescence/Rust Staining		317		0	317	0	0

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Bridge Inspection Report

Pictures

PHOTO 1

Description

PHOTO 1

Description

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Bridge Inspection Report

Pictures

PHOTO 1

Description

PHOTO 2

Description

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Bridge Inspection Report

Pictures

PHOTO 3

Description

PHOTO 4

Description

Inspector:

Inspection Date:

Structure Number: B6518

Facility Carried: I-40EB/Se51/234.04

Bridge Inspection Report

Pictures

PHOTO 5

Description

Inspector:

Inspection Date:

Structure Number: B6518

Facility Carried: I-40EB/Se51/234.04

Bridge Inspection Report

Sketches

Inspector:

Structure Number: B6518

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 1/3/2013 12:00:00 AM

Priority: C - Important

Work Code: N/A

Deficiency Description:

Deck has transverse and longitudinal cracks some have been sealed with epoxy spaced four to five feet apart.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description

Inspector:

Inspection Date:

Structure Number: B6518

Facility Carried: I-40EB/Se51/234.04

Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 3 Description

Inspector:

Structure Number: B6518

Inspection Date:

Facility Carried: I-40EB/Se51/234.04

Bridge Inspection Report

Maintenance Needs

Date Reported: 1/7/2015 12:00:00 AM

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Span #1 girder #4 diaphragm bolts are loose.

Span #3 bent #4 girder #5 lower diaphragm connection has several loose bolts.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Inspector:

Structure Number: B6518

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 1/7/2015 12:00:00 AM

Priority: C - Important

Work Code: N/A

Deficiency Description:

All slabs have open transverse and longitudinal cracks.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description

Inspector:

Inspection Date:

Structure Number: B6518

Facility Carried: I-40EB/Se51/234.04

Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 3 Description

Inspector:

Structure Number: B6518

Inspection Date:

Facility Carried: I-40EB/Se51/234.04

Bridge Inspection Report

Maintenance Needs

Date Reported: 1/7/2015 12:00:00 AM

Priority: C - Important

Work Code: N/A

Deficiency Description:

Both gutters have large amounts of debris in them.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

Structure Number: B6518

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 1/7/2015 12:00:00 AM

Priority: C - Important

Work Code: N/A

Deficiency Description:

Abutment #1 right lane seal has fallen out and has a pourable seal in left lane only with loss of adhesive.
Abutment #2 right lane seal has fallen out and is a compressible joint seal.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 01/29/2019

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Small trees and vegetation are growing beside and under bridge.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Small trees and vegetation are growing beside and under bridge.