

Bridge Inspection Report

A3731
I 40-SEC 43; WB LN
over
CO RD 179, RR



No overlay on
bridge Deck

Inspector:

Structure Number: A3731

Inspection Date:

Facility Carried: I 40-SEC 43; WB
LN

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION				INSPECTIONS			
(1) STATE CODE	056 - Arkansas			(90) INSPECTION DATE	01/25/2017		
(8) STRUCTURE NUMBER	A3731			(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	01	(3) COUNTY CODE	095				
(4) PLACE CODE	00000						
(6) FEATURES INTERSECTED	CO RD 179, RR						
(7) FACILITY CARRIED	I 40-SEC 43; WB LN						
(9) LOCATION	0.32 E US 49 OVERPASS						
(11) MILEPOINT	216.060	(12) BASE HIGHWAY NETWORK	1				
(13A) LRS INVENTORY ROUTE	0000040430	(13B) SUBROUTE NUMBER	00				
(16) LATITUDE	34.90914	(17) LONGITUDE	-91.19129				
(98A) BORDER BRIDGE CODE							
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT						
STRUCTURE TYPE AND MATERIAL				CONDITION			
(43) STRUCTURE TYPE, MAIN				(58) DECK	8		
A) KIND OF MATERIAL/DESIGN:	4 - Steel continuous			(59) SUPERSTRUCTURE	9	(60) SUBSTRUCTURE	8
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder			(61) CHANNEL & CHANNEL PROTECTION	N	(62) CULVERT	N
(44) STRUCTURE TYPE, APPROACH SPANS				LOAD RATING AND POSTING			
A) KIND OF MATERIAL/DESIGN:	0 - Other			(31) DESIGN LOAD	4		
B) TYPE OF DESIGN/CONSTR:	00 - Other			(63) METHOD USED TO DETERMINE OPERATING RATING	1		
(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				(64) OPERATING RATING	60.0		
(27) YEAR BUILT	1966	(106) YEAR RECONSTRUCTED	2000				
(42) TYPE OF SERVICE	ON 1	UNDER 4					
(28) LANES	ON 02	UNDER 02					
(29) AVERAGE DAILY TRAFFIC	15500	(19) BYPASS DETOUR LENGTH	2				
(30) YEAR OF AVERAGE DAILY TRAFFIC	2013						
(109) AVERAGE DAILY TRUCK TRAFFIC	48						
GEOMETRIC DATA				(65) METHOD USED TO DETERMINE INVENTORY RATING	1		
(48) LENGTH OF MAX SPAN (ft.)	92	(49) STRUCTURE LENGTH (ft.)	260				
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0	RIGHT 0					
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	40.0						
(52) DECK WIDTH, OUT-TO-OUT (ft.)	42.8						
(32) APPROACH ROADWAY WIDTH (ft.)	38.1						
(33) BRIDGE MEDIAN	0	(34) SKEW (DEG.)	0				
(35) STRUCTURE FLARED	0	(10) INV RTE, MIN VERT CLEAR (ft.)	99.99				
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	40.0						
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99						
(54) VERTICAL UNDER CLEARANCE (ft.)	H		24.58				
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H		3.6				
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0						
PROPOSED IMPROVEMENTS				(66) INVENTORY RATING	36.0		
(75A) TYPE OF WORK PROPOSED	31	(75B) WORK DONE BY	1				
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	296.0						
(94) BRIDGE IMPROVEMENT COST (\$)	0						
(95) ROADWAY IMPROVEMENT COST (\$)	247						
(96) TOTAL PROJECT COST	1084						
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2000						
(114) FUTURE ADT	17098	(115) YEAR OF FUTURE ADT	2028				
				(41) STRUCTURE OPEN/POSTED/CLOSED	A		
				APPRAISAL			
				(67) STRUCTURAL EVALUATION	8		
				(68) DECK GEOMETRY	7		
				(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	2		
				(71) WATERWAY ADEQUACY	N		
				(72) APPROACH ROADWAY ALIGNMENT	8		
				(36) TRAFFIC SAFETY FEATURE			
				36A) BRIDGE RAILINGS:	0		
				36B) TRANSITIONS:	1		
				36C) APPROACH GUARDRAIL:	1		
				36D) APPROACH GUARDRAIL ENDS:	1		
				(113) SCOUR CRITICAL BRIDGES	N		
				SUFFICIENCY RATING	2	STATUS	91.7
				CLASSIFICATION			
				(112) NBIS BRIDGE LENGTH	Y		
				(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1		
				(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	01		
				(100) STRAHNET HIGHWAY DESIGNATION	1		
				(101) PARALLEL STRUCTURE DESIGNATION	L		
				(102) DIRECTION OF TRAFFIC	1		
				(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	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		

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National Bridge Inventory

UNDER RECORD 2

IDENTIFICATION

(1) STATE CODE	056 - Arkansas	(7) FACILITY CARRIED	I 40-SEC 43; WB LN
(3) COUNTY CODE	095	(8) STRUCTURE NUMBER	A3731
(4) PLACE CODE	00000	(9) LOCATION	0.32 E US 49 OVERPASS
(5) INV. ROUTE (ON/UNDER)	2 4 8 179 0	(11) MILEPOINT	1.719 (12) BASE HIGHWAY NETWORK 0
(6) FEATURES INTERSECTED	CO RD 179, RR	(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00
		(16) LATITUDE	34. 90833333333333
		(17) LONGITUDE	-91.19

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE, MAIN A) KIND OF MATERIAL/DESIGN: 4 - Steel continuous
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder

AGE OF SERVICE

(19) BYPASS DETOUR LENGTH	1	(30) YEAR OF AVERAGE DAILY TRAFFIC	1983
(27) YEAR BUILT	1966	(42) TYPE OF SERVICE	ON 1 UNDER 4
(28) LANES	ON 02 UNDER 02	(109) AVERAGE DAILY TRUCK TRAFFIC	48
(29) AVERAGE DAILY TRAFFIC	18		

GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	25.36	(48) LENGTH OF MAXIMUM SPAN	92 (49) STRUCTURE LENGTH 260
(47) TOTAL HORIZONTAL CLEARANCE	28.7		

CLASSIFICATION

(20) TOLL	3	(102) DIRECTION OF TRAFFIC	2
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	09	(103) TEMP STRUCTURE	
(100) STRAHNET HIGHWAY DESIGNATION	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(101) PARALLEL STRUCTURE DESIGNATION	L	(110) DESIGNATED NATIONAL NETWORK	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.	11206	sq. ft.	9274	1932	0	0
	SOFFIT OVERHANGS HAVE TRANSVERSE CRACKS WITH EFFLORESCENCE. ALL SPANS HAVE OPEN TRANSVERSE CRACKS SPACED AT 6' +/-						
1120 - Efflorescence/Rust Staining		64			64		
1130 - Cracking (RC and Other)		1868			1868		
107 - Steel Open Girder/Beam	1- Ben.	1560	ft.	1560			
515 - Steel Protective Coating		13822	sq. ft.	13822			
210 - Reinforced Concrete Pier Wall	1- Ben.	82	ft.	82			
215 - Reinforced Concrete Abutment	1- Ben.	136	ft.	130	6	0	0
	BACKWALL'S HAVE VERTICAL HAIRLINE CRACKS WITH EFFLORESCENCE.						
1120 - Efflorescence/Rust Staining		6			6		
302 - Compression Joint Seal	1- Ben.	86	ft.	40	0	3	43
	ABUTMENT #1 ROAD IRON LOOSE AND NOISY UNDER TRAFFIC AND A 3 FOOT SECTION OF ROAD IRON HAS BROKEN OUT. ABUTMENT #2 APPROACH SIDE OF ROAD IRON HAS BEEN REMOVED AND SEAL HAS FALLEN OUT . ABUTMENT #2 ROAD IRON HAS BEEN REMOVED FROM BOTH LANES. ABUTMENT #2 JOINT DRAIN HAS FAILED ALLOWING WATER AND DEBRIS TO FALL THROUGH JOINT ONTO CAP.						
2320 - Seal Adhesion		43					43
2360 - Adjacent Deck or Header		3				3	
515 - Steel Protective Coating		172	sq. ft.	172			
310 - Elastomeric Bearing	1- Ben.	24	each	24			
321 - Reinforced Concrete Approach Slab	1- Ben.	1752	sq. ft.	1262	490	0	0
	ABUTMENTS #1 AND #2 APPROACH SLABS HAVE LONGITUDINAL CRACKS						
1130 - Cracking (RC and Other)		490			490		
331 - Reinforced Concrete Bridge Railing	1- Ben.	520	ft.	510	10	0	0
	ABUTMENT #2 LEFT SIDE FOR LAST 10' HAS A DEEP SCRAPE MARK DUE TO IMPACT DAMAGE NO REBAR EXPOSED.						
7000 - Damage		10			10		

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Bridge Inspection Report

Maintenance Needs

Date Reported: 1/23/2015 12:00:00 AM

Priority: D - Routine

Work Code: N/A

Deficiency Description:

DECK

ALL SPANS

ALL SPANS HAVE OPEN TRANSVERSE CRACKS SPACED AT 6'+-.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 1/23/2015 12:00:00 AM

Priority: D - Routine

Work Code: N/A

Deficiency Description:

APPROACH SLABS

ABUTMENTS #1 AND #2

APPROACH SLABS HAVE UNSEALED LONGITUDINAL CRACKS.

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: 1/23/2015 12:00:00 AM

Priority: C - Important

Work Code: N/A

Deficiency Description:

ABUTMENT #1

JOINT

ROAD IRON IS NOISY UNDER TRAFFIC.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 1/23/2015 12:00:00 AM

Priority: C - Important

Work Code: N/A

Deficiency Description:

ABUTMENT #2

JOINT

ROAD IRON HAS BEEN REMOVED AND JOINT DRAIN HAS FAILED ALLOWING WATER, DIRT AND DEBRIS TO FALL THROUGH JOINT ONTO CAP.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor

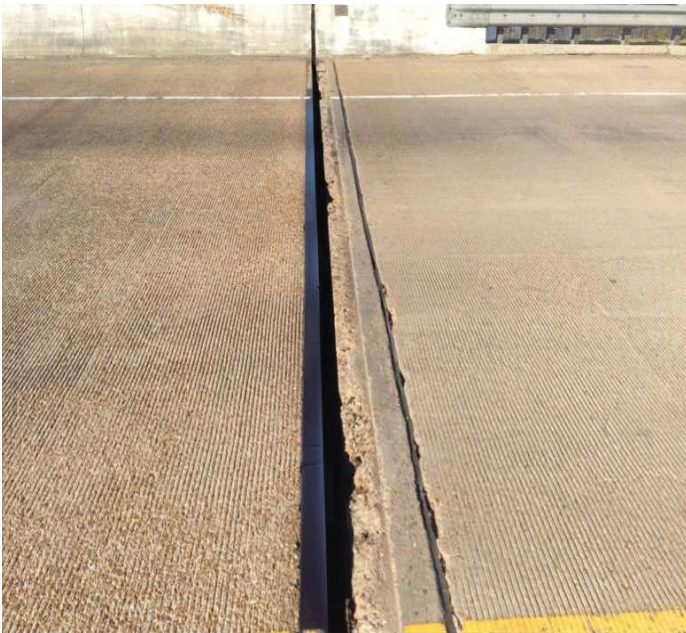


PHOTO 1 Description

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Bridge Inspection Report

Maintenance Needs

Date Reported: 1/23/2015 12:00:00 AM

Priority: D - Routine

Work Code: N/A

Deficiency Description:

ABUTMENT #1

RIGHT SIDE

SMALL TREES GROWING RIGHT SIDE OF BRIDGE.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description