

Bridge Inspection Report

03986

US 65B-14 LM 3.82

over

Union-Pacific Railroad



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: 03986

Inspection Date:

Facility Carried: US 65B-14 LM 3.82

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	12/30/2015
(8) STRUCTURE NUMBER	03986	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 6 65 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	02 (3) COUNTY CODE 069	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	52800	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Union-Pacific Railroad	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 65B-14 LM 3.82		
(9) LOCATION	0.5 Mi W US 79B-PineBluff		
(11) MILEPOINT 3.820	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	000006514B (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.22994	(17) LONGITUDE -92.03517		
(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: 3 - Steel		(59) SUPERSTRUCTURE	8
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(60) SUBSTRUCTURE	7
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	N
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
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 1971	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	6
(42) TYPE OF SERVICE ON 1 UNDER 2		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 04 UNDER 00		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 14000	(19) BYPASS DETOUR LENGTH 2	(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.) 70	(49) STRUCTURE LENGTH (ft.) 265	(67) STRUCTURAL EVALUATION	7
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0.5 RIGHT 0.5		(68) DECK GEOMETRY	9
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 87.6		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	6
(52) DECK WIDTH, OUT-TO-OUT (ft.) 91.5		(71) WATERWAY ADEQUACY	N
(32) APPROACH ROADWAY WIDTH (ft.) 88.9		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 2	(34) SKEW (DEG.) 51	(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.) 87.6		36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.) R 22.20		36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) R 18.5		(113) SCOUR CRITICAL BRIDGES	N
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		SUFFICIENCY RATING	0
		STATUS	98.0
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	12
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 17734	(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
		(37) HISTORICAL	5
		NAVIGATION DATA	
		(38) NAVIGATION CONTROL	N
		(111) PIER OR ABUTMENT PROTECTION	5
		(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.	24247	sq. ft.	23969	256	22	0
	Deck: 91.5' wide x 265' long. All spans: Some scattered hairline- to minor-sized transverse or map cracks. Some light wear from traffic abrasion in travel lanes. Span 3 left, Span 4 left, & Span 5 right: Scattered small spalls with some transverse steel exposed. Soffit - Span 3: Some minor spalling with steel exposed in Bay 6.						
1080 - Delamination/Spall/Patched Area		4			4		
1090 - Exposed Rebar		32			10	22	
1130 - Cracking (RC and Other)		242			242		
107 - Steel Open Girder/Beam	1- Ben.	3810	ft.	3806	4	0	0
	Girders: 15 per span / 254' total span. Coatings: Spans 1-2 & 4-5 (184') - 7.2 square feet per linear feet of girder = 19872 sqft. Span 3 (70') - 8.5 square feet per linear feet of girder = 8925 sqft. Girders - various locations: Some rust with minor section loss, especially on Girders 3 & 10 @ Bent 1, Girder 1 @ Bent 2, & Girder 4 @ Bent 5. (1' each location) Some areas with paint peeling, especially Span 3 Girders 5 & 6 right side & Span 3 Girder 11 left side. (2' each location) Some rust just beginning to reappear at ends of girders at haunches and bearing areas.						
1000 - Corrosion		4			4		
515 - Steel Protective Coating		28797	sq. ft.	28717		29	51
3420 - Peeling/Bubbling/Cracking (Steel Protective Coatings)		51					51
3440 - Effectiveness (Steel Protective Coatings)		29				29	
205 - Reinforced Concrete Column	1- Ben.	24	each	24			
	Columns: 6 per bent / Bents 2-4.						
215 - Reinforced Concrete Abutment	1- Ben.	264	ft.	264			
	Abutments: 132' each (skewed) / Bents 1 & 6.						
234 - Reinforced Concrete Pier Cap	1- Ben.	496	ft.	480		16	0
	Caps: 165'-4" each (skewed) / Bents 2-4. Bents 2, 3, & 4: Scattered small spalls with some steel exposed on back, ahead and bottom faces of caps. Some cracking, deterioration, and light efflorescence - mainly on left ends. Bent 2: Small amount of dirt and debris on top of cap retaining moisture.						
1080 - Delamination/Spall/Patched Area		2				2	
1090 - Exposed Rebar		12				12	
1120 - Efflorescence/Rust Staining		1				1	
1130 - Cracking (RC and Other)		1				1	

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302 - Compression Joint Seal	1- Ben.	720	ft.	317	363	15	25
Joints: 120' each (skewed) / Bents 1-6. Most joint material is beginning to wear and tatter. Bent 1 left: Road iron has been removed in left outer lane (6'). Bent 1 right: Road iron has been removed in right outer lane (8'). Bent 2 right inside lane: Preformed joint material has fallen out. (20') Bent 3 right outside lane: Preformed joint material has fallen out in outside "wheel rut". (5') Remaining joint has fallen down about 4". (15') Bent 5 right: Some spalling of adjacent deck at right edge line (3').							
2320 - Seal Adhesion		40				15	25
2330 - Seal Damage		360			360		
2360 - Adjacent Deck or Header		3			3		
311 - Movable Bearing	1- Ben.	75	each	73	2		0
Bearings: 15 per bent. Coating: 2 square feet each. Various locations: Some rust with paint peeling off, especially on Bearings 3 & 10 @ Bent 1, Bearing 1 @ Bent 2, & Bearing 4 @ Bent 5. Anchor bolts - various locations: Several anchor bolts appear to have come loose and are protruding up from bearings.							
1000 - Corrosion		2			2		
515 - Steel Protective Coating		150	sq. ft.	146		4	0
3420 - Peeling/Bubbling/Cracking (Steel Protective Coatings)		4				4	
313 - Fixed Bearing	1- Ben.	75	each	73	2		0
Bearings: 15 per bent. Coating: 2 square feet each. Various locations: Some rust with paint peeling off, especially on Bearings 3 & 10 @ Bent 1, Bearing 1 @ Bent 2, & Bearing 4 @ Bent 5. Anchor bolts - various locations: Several anchor bolts appear to have come loose and are protruding up from bearings.							
1000 - Corrosion		2			2		
515 - Steel Protective Coating		150	sq. ft.	146		4	0
3420 - Peeling/Bubbling/Cracking (Steel Protective Coatings)		4				4	
321 - Reinforced Concrete Approach Slab	1- Ben.	6120	sq. ft.	5661	459		0
Approach slabs: Bents 1 & 6 / 45' long x 34' wide. Approach slabs: 1530 square feet each (x 4) / Bents 1 & 6. Unsealed, minor- to moderate-sized cracks with some spalling and shallow scaling in various locations. Bent 1 left side: Settlement to slabs have been repaired in the past by "mud-jacking".							
1080 - Delamination/Spall/Patched Area		153			153		
1130 - Cracking (RC and Other)		306			306		

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330 - Metal Bridge Railing	1- Ben.	530	ft.	530			
	Railing: 265' each side. Coating: 2.1 square feet per linear feet of railing. Concrete curb topped with metal railing. NOTE: State forces have made repairs to railing on Span 5 right.						
515 - Steel Protective Coating		1113	sq. ft.	1113			