

Bridge Inspection Report

B5448

I-555SB-02-LM15.26

over

FLOODWAY RELIEF



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: B5448

Inspection Date:

Facility Carried: I-555SB-02-
LM15.26

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION				INSPECTIONS			
(1) STATE CODE	056 - Arkansas			(90) INSPECTION DATE	11/18/2015		
(8) STRUCTURE NUMBER	B5448			(91) DESIGNATED INSPECTION FREQUENCY	24		
(5) INV. ROUTE (ON/UNDER)	1	1	1	555	3	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	10	(3) COUNTY CODE	111				
(4) PLACE CODE	00000						
(6) FEATURES INTERSECTED	FLOODWAY RELIEF						
(7) FACILITY CARRIED	I-555SB-02-LM15.26						
(9) LOCATION	1.63 MI W OF SH 75						
(11) MILEPOINT	15.26	(12) BASE HIGHWAY NETWORK	1				
(13A) LRS INVENTORY ROUTE	0000063080	(13B) SUBROUTE NUMBER	00				
(16) LATITUDE	35.52924	(17) LONGITUDE	-90.45732				
(98A) BORDER BRIDGE CODE							
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT						
STRUCTURE TYPE AND MATERIAL				CONDITION			
(43) STRUCTURE TYPE, MAIN				(58) DECK	6		
A) KIND OF MATERIAL/DESIGN:	3 - Steel			(59) SUPERSTRUCTURE	6	(60) SUBSTRUCTURE	7
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder			(61) CHANNEL & CHANNEL PROTECTION	7	(62) CULVERT	N
(44) STRUCTURE TYPE, APPROACH SPANS				LOAD RATING AND POSTING			
A) KIND OF MATERIAL/DESIGN:	0 - Other			(31) DESIGN LOAD	5		
B) TYPE OF DESIGN/CONSTR:	00 - Other			(63) METHOD USED TO DETERMINE OPERATING RATING	1		
(45) NUMBER OF SPANS IN MAIN	12	(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				APPRAISAL			
(27) YEAR BUILT	1973	(106) YEAR RECONSTRUCTED	0000				
(42) TYPE OF SERVICE	ON 1	UNDER	9				
(28) LANES	ON 02	UNDER	00				
(29) AVERAGE DAILY TRAFFIC	15375	(19) BYPASS DETOUR LENGTH	1				
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014						
(109) AVERAGE DAILY TRUCK TRAFFIC	1						
GEOMETRIC DATA				CLASSIFICATION			
(48) LENGTH OF MAX SPAN (ft.)	40	(49) STRUCTURE LENGTH (ft.)	482				
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0	RIGHT	0				
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	37.1						
(52) DECK WIDTH, OUT-TO-OUT (ft.)	39.7						
(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.)	38.1						
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99						
(54) VERTICAL UNDER CLEARANCE (ft.)	N	0					
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N	99.9					
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0						
PROPOSED IMPROVEMENTS				NAVIGATION DATA			
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY			(38) NAVIGATION CONTROL	0		
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0						
(94) BRIDGE IMPROVEMENT COST (\$)	0						
(95) ROADWAY IMPROVEMENT COST (\$)	0						
(96) TOTAL PROJECT COST	0						
(97) YEAR OF IMPROVEMENT COST ESTIMATE							
(114) FUTURE ADT	8692	(115) YEAR OF FUTURE ADT	2028				
(20) TOLL	3						
(21) MAINTENANCE RESPONSIBILITY	01						
(37) HISTORICAL	5						
(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.	19135	sq. ft.	16363	956	1816	0
1080 - Delamination/Spall/Patched Area		40				40	
1120 - Efflorescence/Rust Staining		956			956		
1130 - Cracking (RC and Other)		1776				1776	
107 - Steel Open Girder/Beam	1- Ben.	2400	ft.	2040		360	0
1000 - Corrosion		360				360	
515 - Steel Protective Coating		6506	sq. ft.	4009			2497
3440 - Effectiveness (Steel Protective Coatings)		2497					2497
215 - Reinforced Concrete Abutment	1- Ben.	84	ft.	0	84		
227 - Reinforced Concrete Pile	1- Ben.	44	each	0	44		
234 - Reinforced Concrete Pier Cap	1- Ben.	374	ft.	362	12	0	0
1090 - Exposed Rebar		12			12		
302 - Compression Joint Seal	1- Ben.	481	ft.	404		77	0
2330 - Seal Damage		77				77	
311 - Movable Bearing	1- Ben.	60	each	0		60	0
1000 - Corrosion		60				60	
313 - Fixed Bearing	1- Ben.	60	each	0		60	0
1000 - Corrosion		60				60	
321 - Reinforced Concrete Approach Slab	1- Ben.	964	sq. ft.	964			

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Bridge Inspection Report

Maintenance Needs

Date Reported: 10/10/2011 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Concrete Deck

has insignificant size and density cracks. A few small spalls, especially near road irons.

Span 5 has few delaminated areas and spalls along joints, and several in right lane. See 2013 photo

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 10/10/2011 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Majority of Compression Seals are cracked, deteriorated, and losing adhesion, especially Bents 2-8, 10, and 12. Compression Seals at several joints have fallen out and or dropped down:

Bent 4 = 24 ft

Bent 5 = 16 ft

Bent 7 = 7 ft

Bent 8 = 5 ft

Bent 10 = 25 ft

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Maintenance Needs

Date Reported: 10/10/2011 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Majority of Bearings are rusted with some section loss. Some Bearings have some pack rust.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 10/10/2011 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Ends of Girders (1 ft. typical) are rusted with pitting and minor section loss

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 10/10/2011 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Girders are floating moving under traffic, up to 1/16 Gap:

Span 2 Girder 4 Bent 3

Span 3 Girder 3 Bent 4

Span 5 Girder 2 Bent 5

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Maintenance Needs

Date Reported: 11/18/2015

Priority: C - Important

Work Code:

Deficiency Description:

Several Caps Bents 5 thru 9 has rebar exposed mainly due to concrete coverage.

Right End of bottom of Cap Bent 6 is shelled off with exposed rebar.

Right End of bottom of Cap Bent 12 is shelled off with exposed rebar see 2011 photo

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Inspector:

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Maintenance Needs

Date Reported: 10/10/2011 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Span 1 slope erosion is undermining Bent 1 abutment exposing one pile, see 2011 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 10/10/2011 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Span 12 slope erosion is beginning to under mine abutment exposing Pile 4.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 11/6/2013 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Road iron missing in right lane over Bent 1

Work Description:

Date Repairs Completed:

Maintenance Comments:

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Maintenance Needs

Date Reported: 11/6/2013 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Approach roadway at end of bridge has minor settlement.

Work Description:

Date Repairs Completed:

Maintenance Comments:
