

Bridge Inspection Report

A5448
I-555NB-02-LM15.26
over
FLOODWAY REL



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: A5448

Inspection Date:

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

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	11/19/2015
(8) STRUCTURE NUMBER	A5448	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 1 1 555 1	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	10 (3) COUNTY CODE 111	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	FLOODWAY REL	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	I-555NB-02-LM15.26		
(9) LOCATION	1.63 W JCT SH 75		
(11) MILEPOINT 15.26	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000063080 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.52932	(17) LONGITUDE -90.45727		
(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 6
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(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	12 (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	1973 (106) YEAR RECONSTRUCTED	(31) DESIGN LOAD	5
(42) TYPE OF SERVICE	ON 1 UNDER 9	(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES	ON 02 UNDER 00	(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC	15000 (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	1	(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	40 (49) STRUCTURE LENGTH (ft.)	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0 RIGHT 0	(68) DECK GEOMETRY	5
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	37.1	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	39.7	(71) WATERWAY ADEQUACY	9
(32) APPROACH ROADWAY WIDTH (ft.)	38.1	(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.)	38.4	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	0 STATUS 95.6
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	L
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	1
(114) FUTURE ADT	8692 (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	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.	16890	957	1288	0
1080 - Delamination/Spall/Patched Area		407				407	
1120 - Efflorescence/Rust Staining		957			957		
1130 - Cracking (RC and Other)		881				881	
107 - Steel Open Girder/Beam	1- Ben.	2400	ft.	2160		240	0
1000 - Corrosion		240				240	
215 - Reinforced Concrete Abutment	1- Ben.	84	ft.	84			
227 - Reinforced Concrete Pile	1- Ben.	44	each	41	3		0
1130 - Cracking (RC and Other)		3			3		
234 - Reinforced Concrete Pier Cap	1- Ben.	374	ft.	364	10		0
1090 - Exposed Rebar		10			10		
302 - Compression Joint Seal	1- Ben.	481	ft.	472		9	0
2330 - Seal Damage		9				9	
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	
331 - Reinforced Concrete Bridge Railing	1- Ben.	964	ft.	964			

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Bridge Inspection Report

Maintenance Needs

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

Priority: D - Routine

Work Code:

Deficiency Description:

Bent 12 Pile 3 has minor size and density vertical cracks visible.

Work Description:

Date Repairs Completed:

Maintenance Comments:

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

Priority: C - Important

Work Code:

Deficiency Description:

Top of deck

Minor to Moderate size density cracks top of Deck especially Spans 6 & 12

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

Inspection Date:

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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:

Majority of Compression Seals are deteriorated and split.

Some Compression Seals have dropped down:

Bent 7 = 5ft.

Bent 13 = 4ft.

Work Description:

Date Repairs Completed:

Maintenance Comments:

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

Priority: C - Important

Work Code:

Deficiency Description:

Rust is forming on majority of Steel Girders.

Ends of majority of Girders (2 ft. typical) are rusted with light pitting.

2 ft. end of some Girders are rusted with 1/8in. section loss to web and bottom flange:

Span 4 Girder 4 Bent 5

Span 10 Girder 3 Bent 10

Span 12 Girder 3 Bent 12

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Maintenance Needs

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

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Bearings

Majority of bearings are rusted with light pitting and some pack rust forming between sole and masonry plates.

Work Description:

Date Repairs Completed:

Maintenance Comments:

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

Priority: C - Important

Work Code:

Deficiency Description:

Some Girders are floating and moving under traffic:

Span 2 Girder 3 Bent 3 has a $\frac{3}{4}$ in. shim missing.

Span 4 Girder 2 Bent 4 shim has shifted 3 in.

Span 7 Girder 3 Bent 7 is floating (1/8 in.).

Span 8 Girder 3 Bent 9, shim is missing with a 1/2in. gap. See 2013 photo.

Span 10 Girder 3 Bent 11

Span 11 Girder 2 Bent 11

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:

Bents 3 thru 12 Caps have shelled out areas with rebar exposed mainly due to concrete coverage.
Right end of Caps Bents 3,5,11 are shelled out with exposed rebar.
Left end of bottom of Cap Bent 9 is shelled out with exposed rebar.

Work Description:

Date Repairs Completed:

Maintenance Comments:

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

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Bents 1&13 has some embankment erosion due to roadway runoff.

Work Description:

Date Repairs Completed:

Maintenance Comments:

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

Priority: C - Important

Work Code:

Deficiency Description:

Span 9 has 3 spalls in right lane near end of span. (2 ft x 2 ft x 3 in deep) Some rebar exposed. See 2013 photo

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Maintenance Needs

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

Priority: C - Important

Work Code:

Deficiency Description:

Span 12 has an approximately 3 foot x 2 foot x 3 inch deep spall with 1 foot of rebar exposed in right lane.

Left Gutter line Span 12 has 3ft. wide x 8ft. long heavy scaling

Work Description:

Date Repairs Completed:

Maintenance Comments:

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

Priority: C - Important

Work Code:

Deficiency Description:

Span 5 has a few minor spalls some with rebar exposed, and an 18 foot x 3.5 foot delaminated/spalled area filled with asphalt. See 2013 photo

Work Description:

Date Repairs Completed:

Maintenance Comments:

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

Priority: C - Important

Work Code:

Deficiency Description:

Span 5 has a few minor spalls some with rebar exposed, and an 18 foot x 3.5 foot delaminated/spalled area filled with asphalt. See 2013 photo

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Maintenance Needs

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

Priority: C - Important

Work Code:

Deficiency Description:

Span 1 has several small spalls (mostly filled with asphalt) and delaminated areas especially in right lane. See 2013 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

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

Priority: C - Important

Work Code:

Deficiency Description:

Span 12 has unsealed transverse cracks of moderate size and density.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 11/19/2015

Priority: C - Important

Work Code:

Deficiency Description:

Girder 1 Span 8 Bt. 8 50& section loss at anchor bolt connection bottom flange.

Work Description:

Date Repairs Completed:

Maintenance Comments:
