

# **Bridge Inspection Report**

**04201**

**Blue Springs Road  
over  
Mill Branch-Goshen**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

Inspector:

Structure Number: 04201

Inspection Date:

Facility Carried: Blue Springs Road

## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	12/06/2016
(8) STRUCTURE NUMBER	04201	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 5 1 5621 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	04 (3) COUNTY CODE 143	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	26980	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Mill Branch-Goshen	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	Blue Springs Road		
(9) LOCATION	0.47 M NW JCT SH 45		
(11) MILEPOINT 0.470	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 36.1033333333333	(17) LONGITUDE -93.9984444444444		
(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: 1 - Concrete		(59) SUPERSTRUCTURE	7
B) TYPE OF DESIGN/CONSTR: 01 - Slab		(60) SUBSTRUCTURE	6
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	7
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN 3	(46) NUMBER OF APPROACH 0		
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 6		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1965	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	2
(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	41.0
(29) AVERAGE DAILY TRAFFIC 174	(19) BYPASS DETOUR LENGTH 2	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 1987		(66) INVENTORY RATING	24.0
(109) AVERAGE DAILY TRUCK TRAFFIC 1		(70) BRIDGE POSTING	5
GEOMETRIC DATA		(41) STRUCTURE OPEN/POSTED/CLOSED	A
(48) LENGTH OF MAX SPAN (ft.) 28	(49) STRUCTURE LENGTH (ft.) 84		
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 1	RIGHT 1		
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	24.0		
(52) DECK WIDTH, OUT-TO-OUT (ft.)	28.5		
(32) APPROACH ROADWAY WIDTH (ft.)	18.0		
(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.)	25.9		
(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		APPRAISAL	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(67) STRUCTURAL EVALUATION	6
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 0		(68) DECK GEOMETRY	5
(94) BRIDGE IMPROVEMENT COST (\$)	0	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(95) ROADWAY IMPROVEMENT COST (\$)	0	(71) WATERWAY ADEQUACY	8
(96) TOTAL PROJECT COST	0	(72) APPROACH ROADWAY ALIGNMENT	8
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(36) TRAFFIC SAFETY FEATURE	
(114) FUTURE ADT 245	(115) YEAR OF FUTURE ADT 2007	36A) BRIDGE RAILINGS:	0
		36B) TRANSITIONS:	0
		36C) APPROACH GUARDRAIL:	0
		36D) APPROACH GUARDRAIL ENDS:	0
		(113) SCOUR CRITICAL BRIDGES	8
		SUFFICIENCY RATING	0
		STATUS	80.2
		CLASSIFICATION	
		(112) NBIS BRIDGE LENGTH	Y
		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
		(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	07
		(100) STRAHNET HIGHWAY DESIGNATION	0
		(101) PARALLEL STRUCTURE DESIGNATION	N
		(102) DIRECTION OF TRAFFIC	2
		(103) TEMP STRUCTURE	
		(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	0
		(20) TOLL	3
		(21) MAINTENANCE RESPONSIBILITY	04
		(22) OWNER	04
		(37) HISTORICAL	4
		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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#### Maintenance Needs

Date Reported: 12/4/2012 12:00:00 AM

Priority: D - Routine

Work Code:

#### Deficiency Description:

Substructure

Bent # 3 cap has areas of shallow spalling with exposed reinforcing steel in the right side of the cap on the span # 3 side. Both ends of the cap have heavy map cracking with efflorescence. Both sides of the cap have numerous random cracks with efflorescence along the length of the cap. The north abutment has shallow spalling in the top of the stem wall on the left and right sides.

#### Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Forward Local



PHOTO 1 Description Bent # 3 Span # 2 cracking with efflorescence.

Stage: Forward Local



PHOTO 2 Description Bent # 3 left edge of the cap cracking with efflorescence.

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PHOTO 3      Description      Bent # 3 Span # 3 vertical spalls with exposed reinforcing steel.



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### Maintenance Needs

Date Reported: 12/9/2014 12:00:00 AM

Priority: D - Routine

Work Code:

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#### Deficiency Description:

Approach railing

The Southwest and Northeast approach railing has collision damage. The Southwest approach railing has out of plane bending in several locations. The end terminators of the Southwest and Northeast approach railing have collision damage that has created tears and out of plane bending to the terminators.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Forward Local



PHOTO 1      Description      North east approach rail damage.

Stage: Forward Local



PHOTO 2      Description      South west approach rail damage.

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### Maintenance Needs

Date Reported: 12/9/2014 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

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#### Deficiency Description:

Deck

The gutters on the left and right sides of the structure have dirt and gravel accumulation with vegetation growing.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Forward Local



PHOTO 1      Description      Vegetation and debris in the deck gutters.