

# Bridge Inspection Report

**M4033**  
**SH 35-03 LM 12.72**  
**over**  
**Steep Creek**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

Inspector:

Structure Number: M4033

Inspection Date:

Facility Carried: SH 35-03 LM 12.72

## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	08/15/2017
(8) STRUCTURE NUMBER	M4033	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 35 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	02 (3) COUNTY CODE 053	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Steep Creek	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 35-03 LM 12.72		
(9) LOCATION	3.3 Mi N ClevIndCo-Grapev		
(11) MILEPOINT 12.720	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.10385	(17) LONGITUDE -92.30837		
(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: 1 - Concrete		(59) SUPERSTRUCTURE	8
B) TYPE OF DESIGN/CONSTR: 22 - Channel Beam		(60) SUBSTRUCTURE	7
(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	4 (46) NUMBER OF APPROACH		
(107) DECK STRUCTURE TYPE	2 (108A) WEARING SURFACE		
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1977 (106) YEAR RECONSTRUCTED	(31) DESIGN LOAD	0
(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	66.1
(29) AVERAGE DAILY TRAFFIC	390 (19) BYPASS DETOUR LENGTH	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(66) INVENTORY RATING	39.7
(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.)	19 (49) STRUCTURE LENGTH (ft.)	(67) STRUCTURAL EVALUATION	7
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 1 RIGHT 1	(68) DECK GEOMETRY	5
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	26.2	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	28.2	(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.)	32.2	(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:	0
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	27.6	36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36C) APPROACH GUARDRAIL:	0
(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	87.2
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	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	07
(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	483 (115) YEAR OF FUTURE ADT	(103) TEMP STRUCTURE	
	2028	(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	0
		(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
16 - Reinforced Concrete Top Flange	1- Ben.	2128	sq. ft.	2128			
Note: 0.5" ACHM of overlay on deck	Deck: 28.2' wide x 76' long. Minor-sized transverse cracks in asphalt wearing surface along bents. Bent 4 right: Very small (4" x 8"), shallow pothole in asphalt wearing surface just inside edge line, with some scaling of concrete deck. Visible joints between units are completely grouted and grout is in excellent condition.						
	510 - Wearing Surfaces	1672	sq. ft.	1671	1	0	0
3210 - Delamination/Spall/Patched Area/Pothole (Wearing Surfaces)		1			1		
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	608	ft.	608			
	Girders: 8 precast units per span / 76' total span. Units bolted transversely and longitudinally - no noted missing or loose bolts. A couple of scattered hairline vertical cracks in channel legs.						
216 - Timber Abutment	1- Ben.	60	ft.	58	2	0	0
	Backwalls: 30' each / Bents 1 & 5. Very minor decay to outer ends of timber back walls.						
1140 - Decay/Section Loss		2			2		
228 - Timber Pile	1- Ben.	25	each	16	1	8	0
	Piling: 5 per bent / Bents 1-5. Minor weather cracking. Bent 2 Piles 1 & 2: Moderate-sized checks in top 2-3'. (pile are sound). Bent 3 Piles 1-3: Moderate-sized checks in top 2-3'. (pile are sound). Bent 4 Piles 1-3: Moderate localized decay at ground level. Bent 4 Pile 5: Minor delamination on outer shell.						
1140 - Decay/Section Loss		3				3	
1150 - Check/Shake		5				5	
1170 - Split/Delamination (Timber)		1			1		
234 - Reinforced Concrete Pier Cap	1- Ben.	140	ft.	140			
	Caps: 28' each / Bents 1-5.						
330 - Metal Bridge Railing	1- Ben.	152	ft.	152			
	Railing: 76' each side. Coating: 2.5 square feet per linear feet of railing. Metal railing with concrete posts.						
515 - Steel Protective Coating		380	sq. ft.	380			

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 8/28/2013 12:00:00 AM

Priority: D - Routine

Work Code: N/A

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#### Deficiency Description:

Deck – Bent 4 right: Very small (4" x 8"), shallow pothole in asphalt wearing surface just inside edge line, with some scaling of concrete deck.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Monitor



PHOTO 1    Description    Deck - Bent 4 right. Pothole