

# Bridge Inspection Report

**03631**

**SH 104-02 LM 1.64**

**over**

**Arnold Creek**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

Inspector:

Structure Number: 03631

Inspection Date:

Facility Carried: SH 104-02 LM 1.64

## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	12/18/2017
(8) STRUCTURE NUMBER	03631	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 104 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	02	(3) COUNTY CODE	069
(4) PLACE CODE	00000	A. FRACTURE CRITICAL DETAIL	N
(6) FEATURES INTERSECTED	Arnold Creek	B. UNDERWATER INSPECTION	N
(7) FACILITY CARRIED	SH 104-02 LM 1.64	C. OTHER SPECIAL	N
(9) LOCATION	1.64 Mi N US 270-WhiteHal	CONDITION	
(11) MILEPOINT	1.640	(58) DECK	7
(12) BASE HIGHWAY NETWORK	0	(59) SUPERSTRUCTURE	7
(13A) LRS INVENTORY ROUTE	0000000000	(60) SUBSTRUCTURE	8
(13B) SUBROUTE NUMBER	00	(61) CHANNEL & CHANNEL PROTECTION	6
(16) LATITUDE	34.30140772260586	(62) CULVERT	N
(17) LONGITUDE	-92.14093810862965	LOAD RATING AND POSTING	
(98A) BORDER BRIDGE CODE		(31) DESIGN LOAD	2
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT	(63) METHOD USED TO DETERMINE OPERATING RATING	1
STRUCTURE TYPE AND MATERIAL		(64) OPERATING RATING	42
(43) STRUCTURE TYPE, MAIN		(65) METHOD USED TO DETERMINE INVENTORY RATING	1
A) KIND OF MATERIAL/DESIGN:	1 - Concrete	(66) INVENTORY RATING	25
B) TYPE OF DESIGN/CONSTR:	01 - Slab	(70) BRIDGE POSTING	5
(44) STRUCTURE TYPE, APPROACH SPANS		(41) STRUCTURE OPEN/POSTED/CLOSED	A
A) KIND OF MATERIAL/DESIGN:	0 - Other	APPRAISAL	
B) TYPE OF DESIGN/CONSTR:	00 - Other	(67) STRUCTURAL EVALUATION	6
(45) NUMBER OF SPANS IN MAIN	3	(68) DECK GEOMETRY	4
(46) NUMBER OF APPROACH	0	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(107) DECK STRUCTURE TYPE	1	(71) WATERWAY ADEQUACY	8
(108A) WEARING SURFACE	6	(72) APPROACH ROADWAY ALIGNMENT	8
(108B) DECK MEMBRANE	0	(36) TRAFFIC SAFETY FEATURE	
(108C) DECK PROTECTION	0	36A) BRIDGE RAILINGS:	0
AGE OF SERVICE		36B) TRANSITIONS:	0
(27) YEAR BUILT	1963	36C) APPROACH GUARDRAIL:	0
(106) YEAR RECONSTRUCTED	0000	36D) APPROACH GUARDRAIL ENDS:	0
(42) TYPE OF SERVICE	ON 1 UNDER 5	(113) SCOUR CRITICAL BRIDGES	5
(28) LANES	ON 02 UNDER 00	SUFFICIENCY RATING	68.8
(29) AVERAGE DAILY TRAFFIC	1300	STATUS	ND
(19) BYPASS DETOUR LENGTH	10	CLASSIFICATION	
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(112) NBIS BRIDGE LENGTH	Y
(109) AVERAGE DAILY TRUCK TRAFFIC	1	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
GEOMETRIC DATA		(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	07
(48) LENGTH OF MAX SPAN (ft.)	25	(100) STRAHNET HIGHWAY DESIGNATION	0
(49) STRUCTURE LENGTH (ft.)	75	(101) PARALLEL STRUCTURE DESIGNATION	N
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0.8 RIGHT 0.8	(102) DIRECTION OF TRAFFIC	2
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	24.0	(103) TEMP STRUCTURE	
(52) DECK WIDTH, OUT-TO-OUT (ft.)	28.4	(105) FEDERAL LANDS HIGHWAYS	0
(32) APPROACH ROADWAY WIDTH (ft.)	22.0	(110) DESIGNATED NATIONAL NETWORK	0
(33) BRIDGE MEDIAN	0	(20) TOLL	3
(34) SKEW (DEG.)	0	(21) MAINTENANCE RESPONSIBILITY	01
(35) STRUCTURE FLARED	0	(22) OWNER	01
(10) INV RTE, MIN VERT CLEAR (ft.)	99.99	(37) HISTORICAL	5
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	26.2	NAVIGATION DATA	
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	(38) NAVIGATION CONTROL	0
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	(111) PIER OR ABUTMENT PROTECTION	5
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(39) NAV VERT CLEARANCE (ft.)	0
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
PROPOSED IMPROVEMENTS		(40) NAV HORIZONTAL CLEARANCE (ft.)	0
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY		
(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	1393		
(115) YEAR OF FUTURE ADT	2028		

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## Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
38 - Reinforced Concrete Slab	1- Ben.	2130	sq. ft.	2112	18	0	0
<div>Note: 3.5" ACHM overlay on deck</div>	Deck: 28.4' wide x 75' long. Asphalt wearing surface: New chip/pea-gravel seal prior to 2015 inspection. Span 1 left & right sides @ Bent 2: Vertical cracks on sides of slabs over cap. (Cracks not visible on top due to asphalt wearing surface.)  Soffit - A couple scattered short hairline- to minor-sized cracks with some rust staining. Some cracking, delaminations, and spalling around drains, worst at Span 2 left with 3' of exposed rebar.						
	1080 - Delamination/Spall/Patched Area	3			3		
	1090 - Exposed Rebar	3			3		
	1130 - Cracking (RC and Other)	12			12		
	510 - Wearing Surfaces	1800	sq. ft.	1800			
215 - Reinforced Concrete Abutment	1- Ben.	68	ft.	53	15	0	0
Abutments: 34' each / Bents 1 & 4. Abutment 1 has moderate erosion to end slope 15'.							
6000 - Scour		15			15		
227 - Reinforced Concrete Pile	1- Ben.	6	each	6			
Piling: 3 per bent / Bents 2 & 3.							
234 - Reinforced Concrete Pier Cap	1- Ben.	52	ft.	52			
Caps: 26' each / Bents 2 & 3. Staining on caps due to joint seals leaking.							
301 - Pourable Joint Seal	1- Ben.	57	ft.	0	0	57	0
28.4 joint seals at bents 2&3 = 57' Both joint seals have debris impaction due to overlay.							
2350 - Debris Impaction		57				57	
330 - Metal Bridge Railing	1- Ben.	150	ft.	100	50	0	0
Railing: 75' each side. Metal railing with concrete posts. Metal railing has scattered patches of light surface rust (1/3) with remaining coating being chalky and dull.							
1000 - Corrosion		50			50		
515 - Steel Protective Coating		375	sq. ft.	0	250	125	0
3410 - Chalking (Steel Protective Coatings)		250			250		
3440 - Effectiveness (Steel Protective Coatings)		125				125	