

# Bridge Inspection Report

**02227  
SH 28  
over  
Gilkey Branch**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

Inspector:

Structure Number: 02227

Inspection Date:

Facility Carried: SH 28

## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	07/20/2016
(8) STRUCTURE NUMBER	02227	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 28 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	08 (3) COUNTY CODE 149	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Gilkey Branch	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 28		
(9) LOCATION	2.68 M E OF SH 27		
(11) MILEPOINT 2.679	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.98225	(17) LONGITUDE -93.34535		
(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: 1 - Concrete		(59) SUPERSTRUCTURE	5
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 0		
(107) DECK STRUCTURE TYPE 2	(108A) WEARING SURFACE 6		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1952	(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	60.0
(29) AVERAGE DAILY TRAFFIC 1200	(19) BYPASS DETOUR LENGTH 7	(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
GEOMETRIC DATA		(41) STRUCTURE OPEN/POSTED/CLOSED	A
(48) LENGTH OF MAX SPAN (ft.) 19	(49) STRUCTURE LENGTH (ft.) 76		
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0			
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	23.3		
(52) DECK WIDTH, OUT-TO-OUT (ft.)	24.6		
(32) APPROACH ROADWAY WIDTH (ft.)	27.9		
(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.)	24.0		
(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 31	(75B) WORK DONE BY 1	(67) STRUCTURAL EVALUATION	5
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	102.0	(68) DECK GEOMETRY	3
(94) BRIDGE IMPROVEMENT COST (\$)	0	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(95) ROADWAY IMPROVEMENT COST (\$)	117	(71) WATERWAY ADEQUACY	8
(96) TOTAL PROJECT COST	305	(72) APPROACH ROADWAY ALIGNMENT	8
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2002	(36) TRAFFIC SAFETY FEATURE	
(114) FUTURE ADT 2044	(115) YEAR OF FUTURE ADT 2028	36A) BRIDGE RAILINGS:	0
		36B) TRANSITIONS:	0
		36C) APPROACH GUARDRAIL:	0
		36D) APPROACH GUARDRAIL ENDS:	0
		(113) SCOUR CRITICAL BRIDGES	8
		SUFFICIENCY RATING	2
		STATUS	66.0
		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	01
		(22) OWNER	01
		(37) HISTORICAL	5
		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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## Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	1870	sq. ft.	1870			
 <b>5" asphalt overlay</b> - major transverse cracks over joints, minor scale in 10% of wearing surface. Span #3 - 1 patch area approx. 3 sf. Rail - metal with concrete post - one section (25') has minor rust.							
510 - Wearing Surfaces		1763	sq. ft.	1635	3	125	0
3210 - Delamination/Spall/Patched Area/Pothole (Wearing Surfaces)		3			3		
3220 - Crack (Wearing Surface)		125				125	
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	532	ft.	154	99	279	0
Spalls, delamination and cracks throughout. Minor section loss of some reinforcing steel. See attached notes for Channel Beams for complete details.							
1080 - Delamination/Spall/Patched Area		138				138	
1130 - Cracking (RC and Other)		240			99	141	
205 - Reinforced Concrete Column	1- Ben.	6	each	6			
215 - Reinforced Concrete Abutment	1- Ben.	50	ft.	46	2	2	0
A few minor spalls at bearing area at various locations. Minor erosion under abutment # 1.							
1080 - Delamination/Spall/Patched Area		4			2	2	
234 - Reinforced Concrete Pier Cap	1- Ben.	74	ft.	73	1	0	0
Pier #4, ahead side - Minor spall with rebar exposed							
1080 - Delamination/Spall/Patched Area		1			1		
330 - Metal Bridge Railing	1- Ben.	152	ft.	127	25	0	0
Rail - metal with concrete post - one section (25') has minor rust.							
1000 - Corrosion		25			25		
515 - Steel Protective Coating		456	sq. ft.	206	100	100	50
3440 - Effectiveness (Steel Protective Coatings)		250			100	100	50