

# Bridge Inspection Report

**00677**

**SH 178 Marion  
over  
FALLEN ASH**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

Inspector:

Structure Number: 00677

Inspection Date:

Facility Carried: SH 178 Marion

## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION						INSPECTIONS						
(1) STATE CODE		056 - Arkansas				(90) INSPECTION DATE		05/27/2015				
(8) STRUCTURE NUMBER		00677				(91) DESIGNATED INSPECTION FREQUENCY		24				
(5) INV. ROUTE (ON/UNDER)		1	3	1	178	0	(92) CRITICAL FEATURE INSPECTION		(93) CFI DATE			
(2) HIGHWAY AGENCY 09		(3) COUNTY CODE 089				A. FRACTURE CRITICAL DETAIL		N				
(4) PLACE CODE		23620				B. UNDERWATER INSPECTION		N				
(6) FEATURES INTERSECTED		FALLEN ASH				C. OTHER SPECIAL		Y	12	05/02/2016		
(7) FACILITY CARRIED		SH 178 Marion										
(9) LOCATION		.2MI W SH 178 & US 62										
(11) MILEPOINT 1.340		(12) BASE HIGHWAY NETWORK 0										
(13A) LRS INVENTORY ROUTE 0000000000		(13B) SUBROUTE NUMBER 00										
(16) LATITUDE 36.27577		(17) LONGITUDE -92.60093										
(98A) BORDER BRIDGE CODE												
PERCENT RESPONSIBILITY		(99) BORDER BRIDGE STRUCT										
STRUCTURE TYPE AND MATERIAL												
(43) STRUCTURE TYPE, MAIN												
A) KIND OF MATERIAL/DESIGN: 1 - Concrete												
B) TYPE OF DESIGN/CONSTR: 04 - Tee Beam												
(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 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												
(27) YEAR BUILT 1929		(106) YEAR RECONSTRUCTED 1979										
(42) TYPE OF SERVICE ON 1		UNDER 5										
(28) LANES ON 03		UNDER 00										
(29) AVERAGE DAILY TRAFFIC 3200		(19) BYPASS DETOUR LENGTH 70										
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014												
(109) AVERAGE DAILY TRUCK TRAFFIC 1												
GEOMETRIC DATA												
(48) LENGTH OF MAX SPAN (ft.) 35		(49) STRUCTURE LENGTH (ft.) 105										
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0		RIGHT 0										
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)		44.0										
(52) DECK WIDTH, OUT-TO-OUT (ft.)		46.9										
(32) APPROACH ROADWAY WIDTH (ft.)		38.1										
(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.)		45.3										
(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												
(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 4729		(115) YEAR OF FUTURE ADT 2028										

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(92) CRITICAL FEATURE INSPECTION				(93) CFI DATE	
A. FRACTURE CRITICAL DETAIL		N			
B. UNDERWATER INSPECTION		N			
C. OTHER SPECIAL		Y	12	05/02/2016	
CONDITION					
(58) DECK		7			
(59) SUPERSTRUCTURE 6		(60) SUBSTRUCTURE 6			
(61) CHANNEL & CHANNEL PROTECTION 6		(62) CULVERT N			
LOAD RATING AND POSTING					
(31) DESIGN LOAD		5			
(63) METHOD USED TO DETERMINE OPERATING RATING		1			
(64) OPERATING RATING		45.0			
(65) METHOD USED TO DETERMINE INVENTORY RATING		1			
(66) INVENTORY RATING		29.0			
(70) BRIDGE POSTING		5			
(41) STRUCTURE OPEN/POSTED/CLOSED		A			
APPRAISAL					
(67) STRUCTURAL EVALUATION		6			
(68) DECK GEOMETRY		5			
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL		N			
(71) WATERWAY ADEQUACY		8			
(72) APPROACH ROADWAY ALIGNMENT		8			
(36) TRAFFIC SAFETY FEATURE					
36A) BRIDGE RAILINGS:		1			
36B) TRANSITIONS:		0			
36C) APPROACH GUARDRAIL:		0			
36D) APPROACH GUARDRAIL ENDS:		0			
(113) SCOUR CRITICAL BRIDGES		3			
SUFFICIENCY RATING 0		STATUS 70.8			
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		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		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
<b>13 - Prestressed Concrete Deck</b>	1- Ben.	1785	sq. ft.	0	1785		
<b>38 - Reinforced Concrete Slab</b>	1- Ben.	2835	sq. ft.	0	2835		
<b>110 - Reinforced Concrete Open Girder/Beam</b>	1- Ben.	315	ft.	293	22	0	0
1130 - Cracking (RC and Other)		22			22		
<b>205 - Reinforced Concrete Column</b>	1- Ben.	12	each	10	0	2	0
1090 - Exposed Rebar		2				2	
<b>215 - Reinforced Concrete Abutment</b>	1- Ben.	152	ft.	152			
<b>234 - Reinforced Concrete Pier Cap</b>	1- Ben.	96	ft.	89	0	7	0
1090 - Exposed Rebar		7				7	
<b>311 - Movable Bearing</b>	1- Ben.	6	each	6			
<b>331 - Reinforced Concrete Bridge Railing</b>	1- Ben.	210	ft.	210			

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 5/20/2013 12:00:00 AM

Priority: D - Routine

Work Code:

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#### Deficiency Description:

Bent #1 columns #3 has exposed rebar

#### Work Description:

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#### Date Repairs Completed:

#### Maintenance Comments:

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Stage: Assigned



PHOTO 1      Description      Bent #1 column #3 has 18" exposed rebar

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 5/20/2013 12:00:00 AM

Priority: D - Routine

Work Code:

---

#### Deficiency Description:

Bent #2 has crack in columns #3 & #4

#### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Assigned



PHOTO 1      Description      Bent #2 crack in column #4



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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 5/20/2013 12:00:00 AM

Priority: D - Routine

Work Code:

---

#### Deficiency Description:

Bent #1 cap has 5' of rebar exposed. Bent #2 cap has 24" of exposed rebar

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

---

Stage: Assigned



PHOTO 1      Description      5' exposed rebar to bent #1 cap

Stage: Assigned



PHOTO 2      Description      Bent #2 cap has 24" of rebar exposed

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 5/12/2014 12:00:00 AM

Priority: D - Routine

Work Code:

---

#### Deficiency Description:

Soffit spall right side of span #3

#### Work Description:

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#### Date Repairs Completed:

#### Maintenance Comments:

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Stage: Assigned



PHOTO 1      Description      Right side span #3 soffit has 6' exposed rebar