

Bridge Inspection Report

06162

US 278-15 LM 13.95

over

Cut-Off Creek Relief



Inspection Date:

Inspected By:

Inspection Type(s):



Inspector:

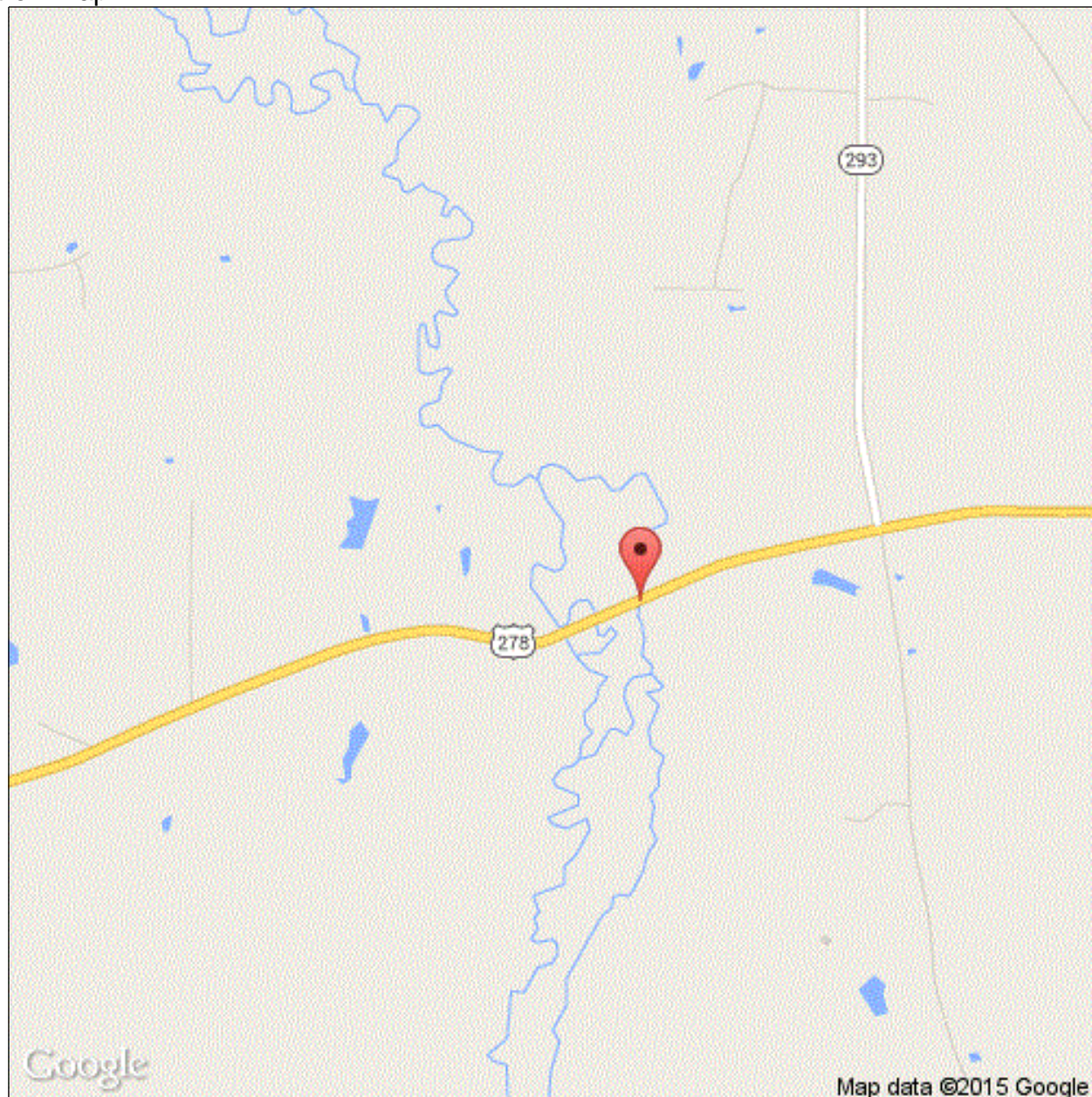
Inspection Date:

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Bridge Inspection Report

Location Map



Latitude: 33.674194791710526

Longitude: -91.57705629259317

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Executive Summary

Beginnig of structure toward US 425, Monticello, West End.

Scour POA Inspection preformed due to high water elevations from recent rains and flooding. 3/23/2016

Soundings and SPOA Event Monitoring Form attached to this report 3/23/2016

Soundings for regular underwater type 2 attached this report 7/12/2016

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National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	07/12/2016
(8) STRUCTURE NUMBER	06162	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 278 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	02 (3) COUNTY CODE 043	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Cut-Off Creek Relief	C. OTHER SPECIAL	Y 24 07/10/2017
(7) FACILITY CARRIED	US 278-15 LM 13.95	CONDITION	
(9) LOCATION	8.2 Mi W US 65, Tillar	(58) DECK	7
(11) MILEPOINT 13.950	(12) BASE HIGHWAY NETWORK 0	(59) SUPERSTRUCTURE	7 (60) SUBSTRUCTURE 7
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00	(61) CHANNEL & CHANNEL PROTECTION	7 (62) CULVERT N
(16) LATITUDE 33.674194791710526	(17) LONGITUDE -91.57705629259317	LOAD RATING AND POSTING	
(98A) BORDER BRIDGE CODE		(31) DESIGN LOAD	5
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT	(63) METHOD USED TO DETERMINE OPERATING RATING	1
STRUCTURE TYPE AND MATERIAL		(64) OPERATING RATING	60.0
(43) STRUCTURE TYPE, MAIN		(65) METHOD USED TO DETERMINE INVENTORY RATING	1
A) KIND OF MATERIAL/DESIGN:	4 - Steel continuous	(66) INVENTORY RATING	36.0
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder	(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	7
(45) NUMBER OF SPANS IN MAIN	3 (46) NUMBER OF APPROACH	(68) DECK GEOMETRY	4
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION	(71) WATERWAY ADEQUACY	8
AGE OF SERVICE		(72) APPROACH ROADWAY ALIGNMENT	8
(27) YEAR BUILT	1987 (106) YEAR RECONSTRUCTED	(36) TRAFFIC SAFETY FEATURE	
(42) TYPE OF SERVICE	ON 1 UNDER 9	36A) BRIDGE RAILINGS:	1
(28) LANES	ON 02 UNDER 00	36B) TRANSITIONS:	0
(29) AVERAGE DAILY TRAFFIC	2500 (19) BYPASS DETOUR LENGTH	36C) APPROACH GUARDRAIL:	0
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	36D) APPROACH GUARDRAIL ENDS:	1
(109) AVERAGE DAILY TRUCK TRAFFIC	1	(113) SCOUR CRITICAL BRIDGES	3
GEOMETRIC DATA		SUFFICIENCY RATING	0 STATUS 89.2
(48) LENGTH OF MAX SPAN (ft.)	30 (49) STRUCTURE LENGTH (ft.)	CLASSIFICATION	
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0 RIGHT 0	(112) NBIS BRIDGE LENGTH	Y
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	29.9	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(52) DECK WIDTH, OUT-TO-OUT (ft.)	32.8	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	07
(32) APPROACH ROADWAY WIDTH (ft.)	30.8	(100) STRAHNET HIGHWAY DESIGNATION	0
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	(101) PARALLEL STRUCTURE DESIGNATION	N
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	(102) DIRECTION OF TRAFFIC	2
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	31.2	(103) TEMP STRUCTURE	
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	(105) FEDERAL LANDS HIGHWAYS	0
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	(110) DESIGNATED NATIONAL NETWORK	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(20) TOLL	3
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	(21) MAINTENANCE RESPONSIBILITY	01
PROPOSED IMPROVEMENTS		(22) OWNER	01
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(37) HISTORICAL	5
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0	NAVIGATION DATA	
(94) BRIDGE IMPROVEMENT COST (\$)	0	(38) NAVIGATION CONTROL	0
(95) ROADWAY IMPROVEMENT COST (\$)	0	(111) PIER OR ABUTMENT PROTECTION	5
(96) TOTAL PROJECT COST	0	(39) NAV VERT CLEARANCE (ft.)	0
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0

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(114) FUTURE ADT 2371

(115) YEAR OF FUTURE ADT 2028

(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.	3017	sq. ft.	2867	150	0	0
	Deck: 92L x 32.8W Some hairline transverse and longitudinal cracks per span. 1 or 2 diagonal cracks at joints.near white lines.						
1130 - Cracking (RC and Other)		150			150		
107 - Steel Open Girder/Beam	1- Ben.	450	ft.	445	0	5	0
	Girders: 5 each at 90' All steel members with a dark brown color. girder ends at bent 1 girders 1&4 bent 4 girders 3-5 have light flaking forming at bearings.						
1000 - Corrosion		5				5	
515 - Steel Protective Coating		2550	sq. ft.	2522	0	28	0
3430 - Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)		28				28	
215 - Reinforced Concrete Abutment	1- Ben.	78	ft.	75	3	0	0
	Abutments: 2 each at 39' Bents 1 & 4 Small vertical crack in back wall						
1130 - Cracking (RC and Other)		3			3		
227 - Reinforced Concrete Pile	1- Ben.	10	each	10			
	Pile : 5 each at bents 2-3						
234 - Reinforced Concrete Pier Cap	1- Ben.	64	ft.	64			
	Caps: 2 each at 32' Bents 2-3						
302 - Compression Joint Seal	1- Ben.	60	ft.	30	30	0	0
	Joint Seals: 30' each Bents 1 & 4 Joint seals at bent 4 have lost bond and starting to leak.						
2320 - Seal Adhesion		30			30		
311 - Movable Bearing	1- Ben.	10	each	0	5	5	0
	Movable bearings: 5 each span/ span 1 & 4.						
1000 - Corrosion		10			5	5	
515 - Steel Protective Coating		30	sq. ft.	0	15	15	0
3430 - Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)		30			15	15	
313 - Fixed Bearing	1- Ben.	10	each	0	10		
	Fixed Bearings: 5 each span/ span 2 & 3.						
515 - Steel Protective Coating		30	sq. ft.	0	30		
331 - Reinforced Concrete Bridge Railing	1- Ben.	184	ft.	184			
	Railing: 92' each side.						

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Maintenance Needs

Date Reported: 7/23/2012 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Unsealed hairline to small size cracks (Transversely and Longitudinally). Daigonal cracks at deck joints near white lines.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 7/10/2014 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Both ends of bridge route section markers read Log Mile 14.11 should read 13.95

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Maintenance Needs

Date Reported: 07/12/2016

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Roadbed front slopes behind approach guard rails sections erosion gulleys.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Approach roadway west end , south
erosion to end slope.