

Bridge Inspection Report

05112

Pleasant View Road

over

Interstate 40 - Frank.



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: 05112

Inspection Date:

Facility Carried: Pleasant View Road

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION				INSPECTIONS			
(1) STATE CODE	056 - Arkansas			(90) INSPECTION DATE	06/01/2016		
(8) STRUCTURE NUMBER	05112			(91) DESIGNATED INSPECTION FREQUENCY	24		
(5) INV. ROUTE (ON/UNDER)	1	4	1 72 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE		
(2) HIGHWAY AGENCY	04	(3) COUNTY CODE	047	A. FRACTURE CRITICAL DETAIL	N		
(4) PLACE CODE	00000			B. UNDERWATER INSPECTION	N		
(6) FEATURES INTERSECTED	Interstate 40 - Frank.			C. OTHER SPECIAL	N		
(7) FACILITY CARRIED	Pleasant View Road			CONDITION			
(9) LOCATION	JCT I-40 & CO.RD.72			(58) DECK	7		
(11) MILEPOINT	1.890	(12) BASE HIGHWAY NETWORK	0	(59) SUPERSTRUCTURE	7	(60) SUBSTRUCTURE	7
(13A) LRS INVENTORY ROUTE	0000000000	(13B) SUBROUTE NUMBER	00	(61) CHANNEL & CHANNEL PROTECTION	N	(62) CULVERT	N
(16) LATITUDE	35.52988	(17) LONGITUDE	-93.95357	LOAD RATING AND POSTING			
(98A) BORDER BRIDGE CODE				(31) DESIGN LOAD	4		
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT			(63) METHOD USED TO DETERMINE OPERATING RATING	1		
STRUCTURE TYPE AND MATERIAL				(64) OPERATING RATING	44.0		
(43) STRUCTURE TYPE, MAIN				(65) METHOD USED TO DETERMINE INVENTORY RATING	1		
A) KIND OF MATERIAL/DESIGN:	4 - Steel continuous			(66) INVENTORY RATING	26.0		
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	6		
(45) NUMBER OF SPANS IN MAIN	4	(46) NUMBER OF APPROACH	0	(68) DECK GEOMETRY	6		
(107) DECK STRUCTURE TYPE	1	(108A) WEARING SURFACE	1	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	6		
(108B) DECK MEMBRANE	0	(108C) DECK PROTECTION	0	(71) WATERWAY ADEQUACY	N		
AGE OF SERVICE				(72) APPROACH ROADWAY ALIGNMENT	8		
(27) YEAR BUILT	1969	(106) YEAR RECONSTRUCTED	0000	(36) TRAFFIC SAFETY FEATURE			
(42) TYPE OF SERVICE	ON 1	UNDER	1	36A) BRIDGE RAILINGS:	1		
(28) LANES	ON 02	UNDER	04	36B) TRANSITIONS:	1		
(29) AVERAGE DAILY TRAFFIC	101	(19) BYPASS DETOUR LENGTH	10	36C) APPROACH GUARDRAIL:	1		
(30) YEAR OF AVERAGE DAILY TRAFFIC	1987			36D) APPROACH GUARDRAIL ENDS:	1		
(109) AVERAGE DAILY TRUCK TRAFFIC	1			(113) SCOUR CRITICAL BRIDGES	N		
GEOMETRIC DATA				SUFFICIENCY RATING	0	STATUS	91.4
(48) LENGTH OF MAX SPAN (ft.)	102	(49) STRUCTURE LENGTH (ft.)	337	CLASSIFICATION			
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0.5	RIGHT	0.5	(112) NBIS BRIDGE LENGTH	Y		
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	27.9			(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0		
(52) DECK WIDTH, OUT-TO-OUT (ft.)	31.3			(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	08		
(32) APPROACH ROADWAY WIDTH (ft.)	27.9			(100) STRAHNET HIGHWAY DESIGNATION	0		
(33) BRIDGE MEDIAN	0	(34) SKEW (DEG.)	7	(101) PARALLEL STRUCTURE DESIGNATION	N		
(35) STRUCTURE FLARED	0	(10) INV RTE, MIN VERT CLEAR (ft.)	99.99	(102) DIRECTION OF TRAFFIC	2		
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	29.2			(103) TEMP STRUCTURE			
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99			(105) FEDERAL LANDS HIGHWAYS	0		
(54) VERTICAL UNDER CLEARANCE (ft.)	H		16.5	(110) DESIGNATED NATIONAL NETWORK	0		
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H		28.3	(20) TOLL	3		
(56) MIN LATERAL UNDER CLEARANCE (ft.)	43.3			(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	N		
(95) ROADWAY IMPROVEMENT COST (\$)	0			(111) PIER OR ABUTMENT PROTECTION	1		
(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		
(114) FUTURE ADT	135	(115) YEAR OF FUTURE ADT	2007	(40) NAV HORIZONTAL CLEARANCE (ft.)	0		

Inspector:

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Bridge Inspection Report

National Bridge Inventory

UNDER RECORD A

IDENTIFICATION

(1) STATE CODE	056 - Arkansas	(7) FACILITY CARRIED	CO RD 72
(3) COUNTY CODE	047	(8) STRUCTURE NUMBER	05112
(4) PLACE CODE	00000	(9) LOCATION	JCT I-40 & CO.RD.72
(5) INV. ROUTE (ON/UNDER)	A 1 1 40 4	(11) MILEPOINT	29.334 (12) BASE HIGHWAY NETWORK 1
(6) FEATURES INTERSECTED	I 40-SEC 12	(13A) LRS INVENTORY ROUTE	0000040120 (13B) SUBROUTE NUMBER 00
		(16) LATITUDE	35.53 (17) LONGITUDE -93.953555555556

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE, MAIN A) KIND OF MATERIAL/DESIGN: 4 - Steel continuous
 B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder

AGE OF SERVICE

(19) BYPASS DETOUR LENGTH	6	(30) YEAR OF AVERAGE DAILY TRAFFIC	2013
(27) YEAR BUILT	1969	(42) TYPE OF SERVICE	ON 1 UNDER 1
(28) LANES	ON 02 UNDER 04	(109) AVERAGE DAILY TRUCK TRAFFIC	1
(29) AVERAGE DAILY TRAFFIC	12000		

GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	17.7	(48) LENGTH OF MAXIMUM SPAN	102 (49) STRUCTURE LENGTH 337
(47) TOTAL HORIZONTAL CLEARANCE	97.9		

CLASSIFICATION

(20) TOLL	3	(102) DIRECTION OF TRAFFIC	1
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	01	(103) TEMP STRUCTURE	
(100) STRAHNET HIGHWAY DESIGNATION	1	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(101) PARALLEL STRUCTURE DESIGNATION	N	(110) DESIGNATED NATIONAL NETWORK	1

UNDER RECORD B

IDENTIFICATION

(1) STATE CODE	056 - Arkansas	(7) FACILITY CARRIED	CO RD 72
(3) COUNTY CODE	047	(8) STRUCTURE NUMBER	05112
(4) PLACE CODE	00000	(9) LOCATION	JCT I-40 & CO.RD.72
(5) INV. ROUTE (ON/UNDER)	B 1 1 40 2	(11) MILEPOINT	29.334 (12) BASE HIGHWAY NETWORK 1
(6) FEATURES INTERSECTED	I 40-SEC 12	(13A) LRS INVENTORY ROUTE	0000040120 (13B) SUBROUTE NUMBER 00
		(16) LATITUDE	35.53 (17) LONGITUDE -93.953555555556

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(29) AVERAGE DAILY TRAFFIC	12000		

GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	17.8	(48) LENGTH OF MAXIMUM SPAN	102 (49) STRUCTURE LENGTH 337
(47) TOTAL HORIZONTAL CLEARANCE	97.9		

CLASSIFICATION

(20) TOLL	3	(102) DIRECTION OF TRAFFIC	1
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	01	(103) TEMP STRUCTURE	
(100) STRAHNET HIGHWAY DESIGNATION	1	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(101) PARALLEL STRUCTURE DESIGNATION	N	(110) DESIGNATED NATIONAL NETWORK	1

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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.	9380	sq. ft.	6664	2716	0	0
	06/01/2016 - Transverse hairline cracks at variable spacing visible from the driving surface of the deck. The transverse cracks are generally short duration in length. Minor spalling with no exposed reinforcing steel is visible from the undersurface of the deck at the construction joints. There is 2' X 40' area with light scale in the Left gutter over Bent # 3 that has been sand and epoxy sealed in the past. There is one softball size area with exposed reinforcing steel in the Left gutter of Span # 1 adjacent to a deck drain.						
1080 - Delamination/Spall/Patched Area		221			221		
1090 - Exposed Rebar		1			1		
1120 - Efflorescence/Rust Staining		20			20		
1130 - Cracking (RC and Other)		1266			1266		
1190 - Abrasion/Wear (PSC/RC)		1208			1208		
107 - Steel Open Girder/Beam	1- Ben.	1340	ft.	580	760	0	0
	06/01/2016 - The paint system is deteriorating with freckled rust typical and isolated areas of light rust patches in the top flange. Numerous areas of the top flanges and numerous random small areas in the web have cracking and flaking paint that is showing active corrosion. The exterior faces of the beams have chalking paint with no apparent active corrosion. No visible cracks in the beams at this inspection.						
1000 - Corrosion		760			760		
515 - Steel Protective Coating		16459	sq. ft.	0	13738	2721	0
3410 - Chalking (Steel Protective Coatings)		2696			674	2022	
3420 - Peeling/Bubbling/Cracking (Steel Protective Coatings)		699				699	
3440 - Effectiveness (Steel Protective Coatings)		13064			13064		
205 - Reinforced Concrete Column	1- Ben.	6	each	5	1	0	0
	06/01/2016 - The interior face of the Right column of Bent # 3 has 5 horizontal hairline cracks on approximately 2' centers.						
1130 - Cracking (RC and Other)		1			1		
215 - Reinforced Concrete Abutment	1- Ben.	80	ft.	33	47	0	0
	06/01/2016 - The top of the backwall of Bent # 1 has a 10" delaminated area in the Left side of bent outside the bridge rail adjacent to the retaining wall. Vertical cracks in the back walls with light efflorescence in isolated areas. The top of the back wall at Bent # 1 has light wear / scale and exposes the aggregate.						
1120 - Efflorescence/Rust Staining		2			2		
1130 - Cracking (RC and Other)		8			8		
1190 - Abrasion/Wear (PSC/RC)		37			37		

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Element Inspection

234 - Reinforced Concrete Pier Cap	1- Ben.	81	ft.	80	1	0	0
06/01/2016 - The Left end of Bent # 2 cap has a shallow 6" spall with exposed reinforcing steel. Exposed reinforcing steel has very little concrete cover from the construction process with no apparent section loss at this inspection. The Right end of Bent # 3 cap has a vertical hairline crack approximately 1' long that appears to be propagating from the bearing of Beam # 4.							
1090 - Exposed Rebar		1			1		
301 - Pourable Joint Seal	1- Ben.	56	ft.	42	0	4	10
06/01/2016 - Deck joint seals at the abutments have a few quarter size holes in the sealant.							
2310 - Leakage		4				4	
2330 - Seal Damage		10					10
311 - Movable Bearing	1- Ben.	12	each	12			
06/01/2016 - Maintenance forces have sprayed expansion bearings at the abutments with bridge mate in the past.							
313 - Fixed Bearing	1- Ben.	8	each	8			
06/01/2016 - Fixed bearings have isolated areas with very minor superficial rust coating showing through the paint system.							
321 - Reinforced Concrete Approach Slab	1- Ben.	1680	sq. ft.	1616	64	0	0
06/01/2016 - The approach slabs have no apparent noteworthy deficiencies at this inspection.							
1190 - Abrasion/Wear (PSC/RC)		64			64		
330 - Metal Bridge Railing	1- Ben.	674	ft.	662	12	0	0
06/01/2016 - The concrete portions of the bridge rail has isolated areas with superficial hairline map cracking.							
1010 - Cracking		12			12		

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Maintenance Needs

Date Reported: 5/15/2014 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Superstructure

The superstructure has areas of peeling paint with superficial rust coating.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 06/01/2016

Priority: D - Routine

Work Code:

Deficiency Description:

Pourable Joint Seals

The joint seals have several areas that are punctured or ripped with isolated areas of adhesion failure.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

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Maintenance Needs

Date Reported: 5/15/2014 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Deck

There is one softball size area with exposed reinforcing steel in the Left gutter of Span # 1 adjacent to a deck drain.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Deck

There is one softball size area with exposed reinforcing steel in the Right gutter of Span # 1 adjacent to a deck drain.