

Bridge Inspection Report

05595

SH 253 Seb. Co.

over

James Fork Creek



Inspection Date:

Inspected By:

Inspection Type(s):



Inspector:

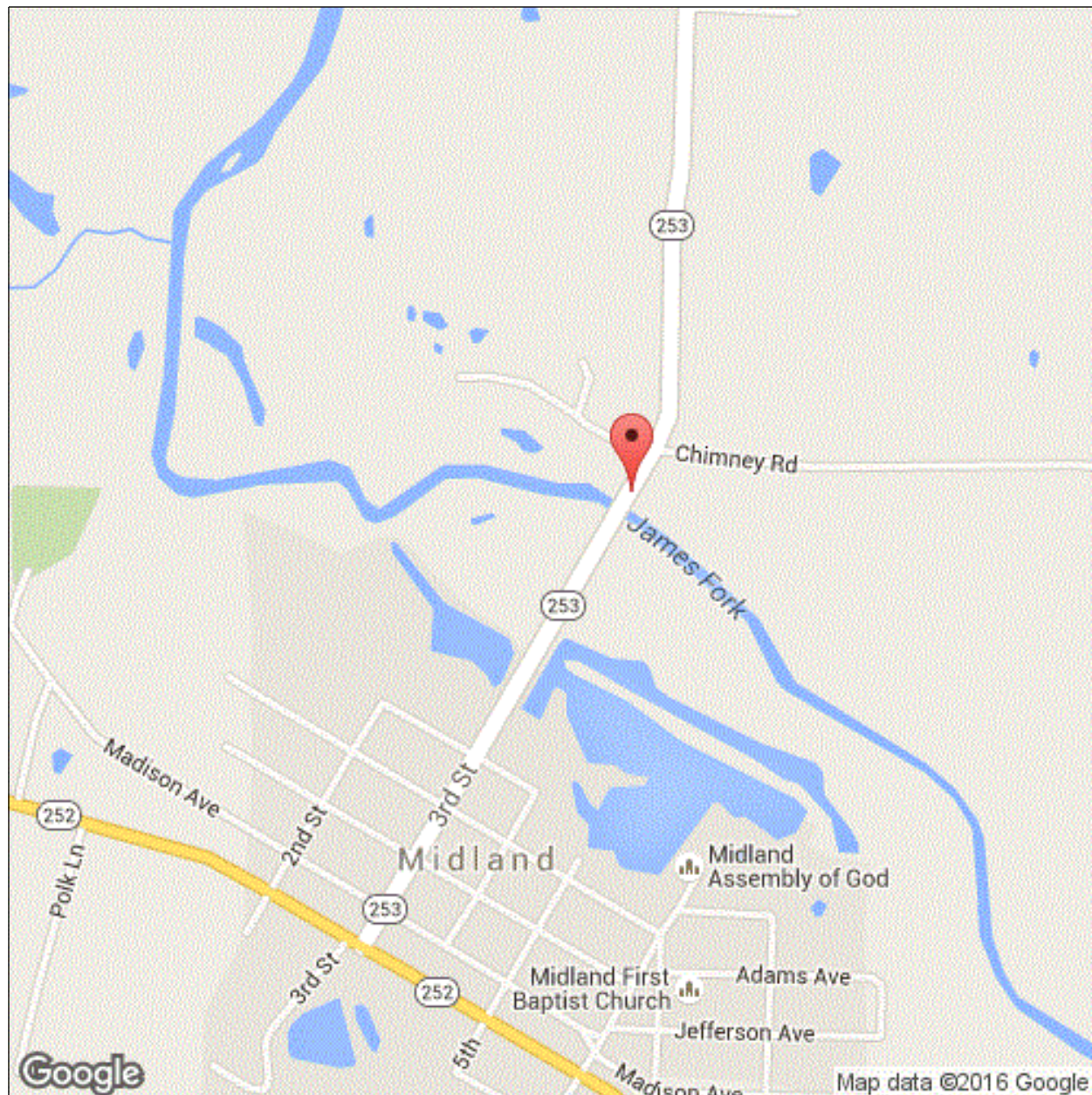
Structure Number: 05595

Inspection Date:

Facility Carried: SH 253 Seb. Co.

Bridge Inspection Report

Location Map



Latitude: 35.09955

Longitude: -94.35025

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Bridge Inspection Report

Executive Summary

04/12/2016 - JCJ & JML - There are no significant changes apparent since the last inspection.

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	04/12/2016
(8) STRUCTURE NUMBER	05595	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 253 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	04 (3) COUNTY CODE 131	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	43220	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	James Fork Creek	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 253 Seb. Co.		
(9) LOCATION	0.55 MI NO OF JCT SH 45		
(11) MILEPOINT 8.268	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.09955	(17) LONGITUDE -94.35025		
(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: 3 - Steel		(59) SUPERSTRUCTURE 7	(60) SUBSTRUCTURE 6
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(61) CHANNEL & CHANNEL PROTECTION 8	(62) CULVERT N
(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 4	(46) NUMBER OF APPROACH 0		
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 1		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1975	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	4
(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 750	(19) BYPASS DETOUR LENGTH 6	(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
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 65	(49) STRUCTURE LENGTH (ft.) 262	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	5
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 25.9		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 28.6		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 27.9		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 0	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99	36A) BRIDGE RAILINGS:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.) 27.2		36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.) N 0		36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) N 99.9		(113) SCOUR CRITICAL BRIDGES	8
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		SUFFICIENCY RATING	0 STATUS 94.1
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 0		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	07
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 1305	(115) YEAR OF FUTURE ADT 2028	(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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Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	6760	sq. ft.	4774	4	1982	0
	04/12/2016 - JCJ & JML - No apparent repairs to the spall with exposed reinforcing steel adjacent to the deck drain # 3 in Span # 4. The driving surface of the deck has sealable transverse cracking at approximately 5' centers. There are a few isolated areas with map cracking. No apparent significant changes since the last inspection.						
1080 - Delamination/Spall/Patched Area		3			1	2	
1090 - Exposed Rebar		3			3		
1130 - Cracking (RC and Other)		1980				1980	
107 - Steel Open Girder/Beam	1- Ben.	1040	ft.	1008	32	0	0
	04/12/2016 - JCJ & JML - The paint system is peeling at the ends of the beams where the deck joint seals leak. The ends of the beams have a light coating of rust beginning to show through the paint. No apparent noteworthy problems to the steel beams.						
1000 - Corrosion		32			32		
515 - Steel Protective Coating		7713	sq. ft.	7581	100	32	
205 - Reinforced Concrete Column	1- Ben.	3	each	0	2	1	0
	04/12/2016 - JCJ & JML - There is light abrasion at the base of the columns in the channel. The Span 4 side of Bent 4 column has a 2' shallow spall with no exposed reinforcing steel at the base of the column.						
1080 - Delamination/Spall/Patched Area		1				1	
1190 - Abrasion/Wear (PSC/RC)		2			2		
215 - Reinforced Concrete Abutment	1- Ben.	77	ft.	71	1	5	0
	04/12/2016 - JCJ & JML - Bent 5 has approximately 6' of horizontal cracking located approximately 3" below the bearing area.						
1130 - Cracking (RC and Other)		6			1	5	
234 - Reinforced Concrete Pier Cap	1- Ben.	72	ft.	34	9	29	0
	04/12/2016 - JCJ & JML - The Span 1 side of Bent 2 cap has a 1' x 4' spall with exposed reinforcing steel, a 4' delaminated area, and Horizontal & map cracking with efflorescence The Right side of Bent 3 cap has a spall with exposed reinforcing steel adjacent to the top of the column. Bent 4 cap has horizontal cracking, delaminated areas, and spalls with exposed reinforcing steel.						
1080 - Delamination/Spall/Patched Area		6				6	
1090 - Exposed Rebar		4			4		
1120 - Efflorescence/Rust Staining		2			2		
1130 - Cracking (RC and Other)		26			3	23	

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302 - Compression Joint Seal	1- Ben.	143	ft.	0	98	15	30
04/12/2016 - JCJ & JML - The seal at Bents 1,3,5 leak. The seal at Bent 2 is missing. The seal at Bent 4 has adhesion failure and has dropped.							
2310 - Leakage		83			83		
2320 - Seal Adhesion		30			15	15	
2330 - Seal Damage		30					30
311 - Movable Bearing	1- Ben.	16	each	0	16	0	0
04/12/2016 - JCJ & JML - The expansion bearings have a superficial rust coating.							
1000 - Corrosion		16			16		
313 - Fixed Bearing	1- Ben.	16	each	0	8	8	0
04/12/2016 - JCJ & JML - The fixed bearings have a superficial rust coating with some pack rust between the masonry and sole plates.							
1000 - Corrosion		16			8	8	
331 - Reinforced Concrete Bridge Railing	1- Ben.	524	ft.	511	13	0	0
04/12/2016 - JCJ & JML - There are a few isolated spalls with exposed reinforcing steel in the parapet walls.							
1090 - Exposed Rebar		13			13		

Agency Inventory

Structural

BRIDGE GROUP

WEARING SURFACE THICKNESS IN

WEATHERING STEEL No

PIN / HANGER No

STAY IN PLACE FORMS No

STEEL TONS Tons(41) STRUCTURE
OPEN/POSTED/CLOSED A**Location**ROAD / ROUTE NAME SECTION ZONE **Seismic**

SEISMIC

SEISMIC YEAR / ZONE **Notification**SCHOOL DISTRICT EMAIL OWNER EMAIL

LATE REASON

Load Po**Calculated**

CODE 4 VEHICLE (22 tons)

CODE 9 VEHICLE (31 tons)

CODE 5 VEHICLE (40 tons)

Posted

Bridge Beginning

CODE 4 TonsCODE 9 TonsCODE 5 Tons**Stip**

APHN

STIP

JOB NUMBER

PROG. JOB NUMBER

OLD BRIDGE NUMBER

NEW BRIDGE NUMBER

BRIDGE CONDITION INDEX

Notes

North/South

Inspector:

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Maintenance Needs

Date Reported: 04/12/2016

Priority: D - Routine

Work Code:

Deficiency Description:

There is asphalt settlement in the approach roadway adjacent to the abutments.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Asphalt settlement adjacent to Bent 1.

Stage: Open



PHOTO 2 Description Approach roadway at Bent 5.

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Maintenance Needs

Date Reported: 04/12/2016

Priority: D - Routine

Work Code:

Deficiency Description:

Superstructure -

The ends of the beams have a light coating of rust beginning to show through the paint. The paint system is beginning to flake off in locations.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Bent 1. Beam 2. Bearing



PHOTO 2 Description Bent 1. Beam 1.

Inspector:

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Maintenance Needs

Date Reported: 04/12/2016

Priority: D - Routine

Work Code:

Deficiency Description:

Bearings -

The bearings have areas of active corrosion and pack rust between the bearing devices. Beams # 1 and # 4 at the north abutment are missing a nut from the exterior anchor bolts.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Bent 1. Beam 2. Bearing

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Bridge Inspection Report

Maintenance Needs

Date Reported: 04/12/2016

Priority: D - Routine

Work Code:

Deficiency Description:

Compression Deck Joint Seals -

The compression joint seal is missing at Bent # 2 and the compression joint seal at Bent # 4 has adhesion failure. All deck joint seals leak.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Missing deck joint seal over Bent 2.

Stage: Assigned



PHOTO 2 Description Bent 3 deck joint seal.

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Maintenance Needs

Date Reported: 04/12/2016

Priority: D - Routine

Work Code:

Deficiency Description:

Bents # 2, # 3 and # 4 Concrete Caps -

The caps of Bents # 2, # 3 and # 4 have spalling with exposed reinforcing steel.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Span 1 side of Bent 2 cap.

Stage: Assigned



PHOTO 2 Description Bent 4 cap

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Maintenance Needs

Date Reported: 04/12/2016

Priority: D - Routine

Work Code:

Deficiency Description:

Overhang portion of the deck on right side of span # 4 -

The overhang portion of the deck on the right side of span # 4 has a 12" long spall with exposed reinforcing steel adjacent to deck drain # 3. The exposed reinforcing steel has active corrosion.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Span 2 side of Bent 3.

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Maintenance Needs

Date Reported: 04/12/2016

Priority: D - Routine

Work Code:

Deficiency Description:

Driving Surface Of The Deck -

The driving surface of the deck has sealable transverse and random cracking in all spans.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Sealable deck cracks

Stage: Assigned



PHOTO 2 Description Span 2 map cracking