

Bridge Inspection Report

02717

SH 135-05- LM 3.08

over

JACKS CREEK



Inspection Date:

Inspected By:

Inspection Type(s):



Inspector:

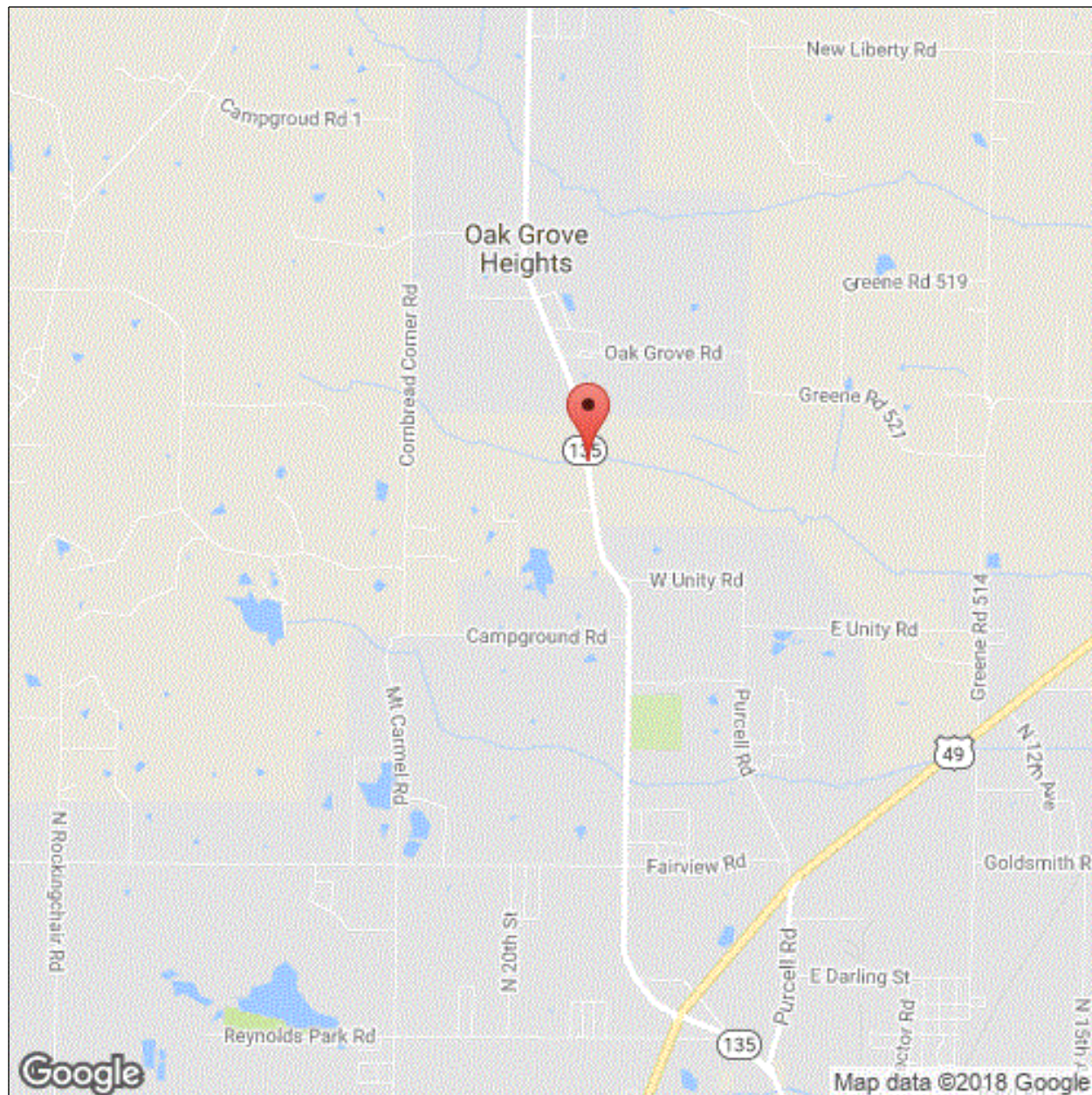
Structure Number: 02717

Inspection Date:

Facility Carried: SH 135-05- LM 3.08

Bridge Inspection Report

Location Map



Latitude: 36.10732

Longitude: -90.50579

Inspector:

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	03/13/2018
(8) STRUCTURE NUMBER	02717	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 135 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	10 (3) COUNTY CODE 055	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	JACKS CREEK	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 135-05- LM 3.08		
(9) LOCATION	3.08 N JCT OF US 49B		
(11) MILEPOINT 3.080	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000135050 (13B) SUBROUTE NUMBER 01		
(16) LATITUDE	36.10732 (17) LONGITUDE -90.50579		
(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	3 (60) SUBSTRUCTURE 7
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(61) CHANNEL & CHANNEL PROTECTION	5 (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	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		LOAD RATING AND POSTING	
(27) YEAR BUILT	1950 (106) YEAR RECONSTRUCTED	0000	
(42) TYPE OF SERVICE	ON 1 UNDER 5		
(28) LANES	ON 02 UNDER 00		
(29) AVERAGE DAILY TRAFFIC	6900 (19) BYPASS DETOUR LENGTH	6	
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014		
(109) AVERAGE DAILY TRUCK TRAFFIC	1		
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	34 (49) STRUCTURE LENGTH (ft.)	105	
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 1.4 RIGHT 1.4		
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	24.0		
(52) DECK WIDTH, OUT-TO-OUT (ft.)	26.8		
(32) APPROACH ROADWAY WIDTH (ft.)	32.2		
(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		STATUS	
(75A) TYPE OF WORK PROPOSED	31 (75B) WORK DONE BY	1	
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	132.0		
(94) BRIDGE IMPROVEMENT COST (\$)	0		
(95) ROADWAY IMPROVEMENT COST (\$)	400		
(96) TOTAL PROJECT COST	956		
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2003		
(114) FUTURE ADT	8968 (115) YEAR OF FUTURE ADT	2028	
		CLASSIFICATION	
		(112) NBIS BRIDGE LENGTH	Y
		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
		(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
		(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	5
		(39) NAV VERT CLEARANCE (ft.)	0
		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
		(40) NAV HORIZONTAL CLEARANCE (ft.)	0

Structural

BRIDGE GROUP

WEARING SURFACE THICKNESS 4.0

WEATHERING STEEL No

PIN / HANGER No

STAY IN PLACE FORMS No

STEEL TONS

(41) STRUCTURE P
OPEN/POSTED/CLOSED**Location**

ROAD / ROUTE NAME SH 135-05- LM

SECTION 05

ZONE 0

Seismic

SEISMIC No

SEISMIC YEAR / ZONE

Notification

SCHOOL DISTRICT EMAIL

OWNER EMAIL

LATE REASON Optimize Sch

Updated Item 41 to P & field postings at both brg en

Forms

Report Info

Report Sections

Pictures/Files

Location Map

Asset Files

Inventory & Condition

National Bridge Inventory

ArDot Agency

Under Records

Element Inspection

Notes

Executive Summary

Notes

Appraisal and Rating

Load Rating

NBI Calculations

NBI Error Check

Inspector:

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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.	2805	sq. ft.	1725	540	540	0
1080 - Delamination/Spall/Patched Area		12				12	
1120 - Efflorescence/Rust Staining		1068			540	528	
510 - Wearing Surfaces		2448	sq. ft.	1296	708	444	0
3220 - Crack (Wearing Surface)		1152			708	444	
107 - Steel Open Girder/Beam	1- Ben.	510	ft.	187	151	36	136
1000 - Corrosion		323			151	36	136
515 - Steel Protective Coating		3567	sq. ft.	1139	0	920	1508
3440 - Effectiveness (Steel Protective Coatings)		2428				920	1508
215 - Reinforced Concrete Abutment	1- Ben.	67	ft.	57	10	0	0
6000 - Scour		10			10		
227 - Reinforced Concrete Pile	1- Ben.	8	each	0	8	0	0
1190 - Abrasion/Wear (PSC/RC)		8			8		
311 - Movable Bearing	1- Ben.	15	each	0	0	15	0
1000 - Corrosion		15				15	
313 - Fixed Bearing	1- Ben.	15	each	0	0	15	0
1000 - Corrosion		15				15	
330 - Metal Bridge Railing	1- Ben.	208	ft.	0	208	0	0
1000 - Corrosion		208			208		

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Bridge Inspection Report

Sketches

Inspector:

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Inspection Date:

Facility Carried: SH 135-05- LM 3.08

Bridge Inspection Report

Maintenance Needs

Date Reported: 1/19/2011 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Asphalt wearing surface has several transverse and longitudinal cracks.

Curbs have a few delaminated or spalled areas near bents.

Soffit has several transverse cracks with efflorescence. Soffit has efflorescence along top flange of exterior girders.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

Structure Number: 02717

Inspection Date:

Facility Carried: SH 135-05- LM 3.08

Bridge Inspection Report

Maintenance Needs

Date Reported: 1/19/2011 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Span 1 bent 2 girder 3 has a 6" x 1" hole in web below haunch. Bottom of web and bottom flange has 2' of up to 1/8" section loss.

Span 1 bent 2 girder 4 has a 3" x 1" hole in web below haunch. Bottom of web and bottom flange has 3' of up to 1/8" section loss

Girders 1 and 5 have flaking rust and section loss along top and bottom flanges at all spans.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description

Inspector:

Inspection Date:

Structure Number: 02717

Facility Carried: SH 135-05- LM 3.08

Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 3 Description

Stage: Monitor



PHOTO 4 Description

Inspector:

Structure Number: 02717

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Bridge Inspection Report

Maintenance Needs

Date Reported: 03/13/2018

Priority: B - Pressing; 6 month completion goal

Work Code:

Deficiency Description:

Span 1 bent 1 girder 1 has 5' of section loss along bottom of web (up to 1/4"). Bottom flange has 2.5' of heavy section loss beginning to knife edge. Edge of flange has 3/16" remaining. Web below haunch has a 7" x 6" area of heavy section loss with a 3" x 3" hole rusted through.

Span 1 bent 1 girder 5 has 3' of section loss along bottom of web (up to 1/4"). Bottom flange has 2' near bearing that is beginning to knife edge. Bottom flange has 1/8" remaining at edge. Web below haunch has a 9" x 8" area of heavy section loss.

Span 1 bent 2 girder 1 has 5.5' of section loss along bottom of web and bottom flange. Bottom flange has 5/16" remaining on edge. Web below haunch has a 11" x 8" hole rusted through.

Span 1 bent 2 girder 5 has 5' of heavy section loss along bottom of web and bottom flange. Interior bottom flange is beginning to knife edge with 1/8" remaining on edge. Web below haunch has 6" x 9" area of heavy section loss/hole in web.

Span 2 bent 2 girder 1 has 1' on end with heavy section loss at web below haunch, diaphragm connection, and along bottom flange. 3/4 of span has section loss along top and bottom flanges.

Span 2 bent 2 girder 5 has 4' of 1/8" section loss along bottom of web and bottom flange. Web below haunch has an 8" x 7" area of heavy section loss with a 4" x 4" hole rusted through.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description

Inspector:

Inspection Date:

Structure Number: 02717

Facility Carried: SH 135-05- LM 3.08

Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 3 Description

Stage: Monitor

Stage: Monitor



PHOTO 5 Description

Stage: Monitor



PHOTO 4 Description



PHOTO 6 Description

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 03/13/2018

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Diaphragms over bents have heavy section loss with several holes rusted through.
Bearings have rust, pack rust, and some section loss.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 03/13/2018

Priority: C - Important

Work Code:

Deficiency Description:

Moderate embankment erosion under spans 1 and 3.
Drift buildup in channel under bridge is restricting flow.

Work Description:

Date Repairs Completed:

Maintenance Comments:
