

Bridge Inspection Report

02071
US 65-20 LM 11.31
over
Bayou Macon



Inspection Date:

Inspected By:

Inspection Type(s):

TABLE OF CONTENTS

	PAGE NUMBER
LOCATION MAP	3
NATIONAL BRIDGE INVENTORY	5
ELEMENTS	6
PICTURES	8
SKETCHES	10

Inspector:

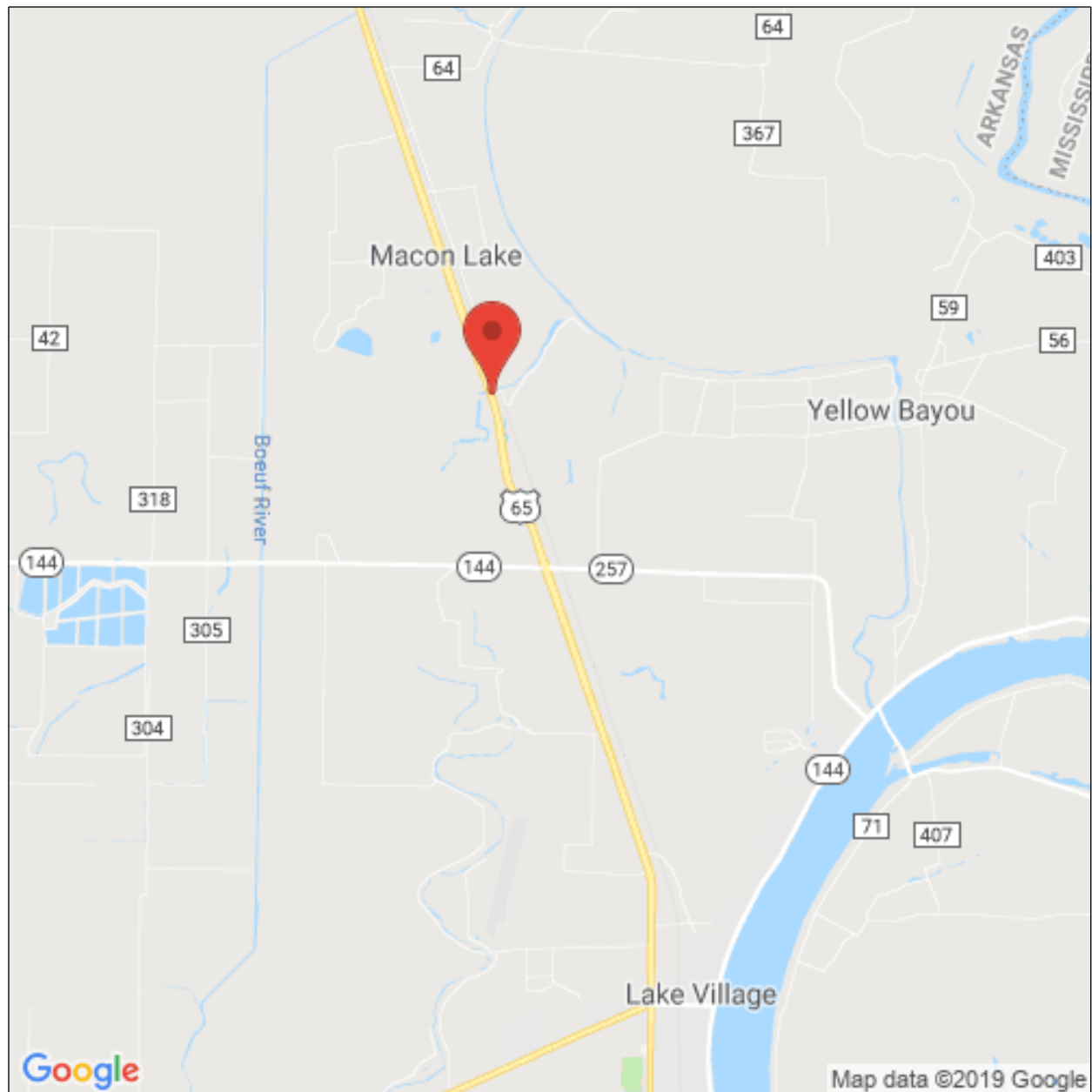
Structure Number: 02071

Inspection Date:

Facility Carried: US 65-20 LM 11.31

Bridge Inspection Report

Location Map



Latitude: 33.41026553210986

Longitude: -91.31728049648836

Inspector:

Inspection Date:

Structure Number: 02071

Facility Carried: US 65-20 LM 11.31

Bridge Inspection Report

Executive Summary

Bridge is logged from north to south.

Inspector:

Structure Number: 02071

Inspection Date:

Facility Carried: US 65-20 LM 11.31

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	03/12/2019
(8) STRUCTURE NUMBER	02071	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 65 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	02 (3) COUNTY CODE 017	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Bayou Macon	C. OTHER SPECIAL	N 48 03/12/2019
(7) FACILITY CARRIED	US 65-20 LM 11.31		
(9) LOCATION	1.8 Mi N SH 144		
(11) MILEPOINT 11.310	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000065200 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 33. 41026553210986	(17) LONGITUDE -91.31728049648836		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	7
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(59) SUPERSTRUCTURE	7
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(60) SUBSTRUCTURE	7
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	6
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
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 1		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 1		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1938	(106) YEAR RECONSTRUCTED 1989	(31) DESIGN LOAD	5
(42) TYPE OF SERVICE ON 1 UNDER 5		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 04 UNDER 00		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 5900	(19) BYPASS DETOUR LENGTH 10	(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.) 50	(49) STRUCTURE LENGTH (ft.) 152	(67) STRUCTURAL EVALUATION	7
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	9
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 70.9		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 75		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 78.1		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 3	(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.) 35.4		36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	0
(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	5
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		SUFFICIENCY RATING	88.3 STATUS 0
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	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	2
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 6318	(115) YEAR OF FUTURE ADT 2028	(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	5
		(39) NAV VERT CLEARANCE (ft.)	0
		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
		(40) NAV HORIZONTAL CLEARANCE (ft.)	0

Inspector:

Structure Number: 02071

Inspection Date:

Facility Carried: US 65-20 LM 11.31

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.	11400	sq. ft.	9879	1372	149	0
	Deck: 75' wide x 152' long. Unsealed, minor- to moderate-sized cracks (transverse, longitudinal, and a couple diagonals) - heavier in right (southbound) lanes (10%). Soffit: Some light efflorescence - reflective of transverse cracks (2%). Bent 2 left (northbound) lanes: Fire damage (shallow spalls and delaminations) (12' x 12' area).						
1080 - Delamination/Spall/Patched Area		144		0	144	0	0
1120 - Efflorescence/Rust Staining		228		0	228	0	0
1130 - Cracking (RC and Other)		1149		0	1000	149	0
107 - Steel Open Girder/Beam	1- Ben.	1950	ft.	1755	195	0	0
	Girders: 13 per span \ 3 spans @ 50' each = 150' total span. Coating: (W27x94) - 6.82 square feet / linear feet of girder. Scattered areas of light freckled rust (10%).						
1000 - Corrosion		195		0	195	0	0
515 - Steel Protective Coating		13299	sq. ft.	11970	0	1329	0
3440 - Effectiveness (Steel Protective Coatings)		1329		0	0	1329	0
215 - Reinforced Concrete Abutment	1- Ben.	150	ft.	135	15	0	0
	Abutments: 75' each \ Bents 1 & 4. Scattered hairline- to minor-sized vertical cracks, especially radiating from step-downs.						
1130 - Cracking (RC and Other)		15		0	15	0	0
227 - Reinforced Concrete Pile	1- Ben.	34	each	34	0	0	0
	Pile: 17 per bent / Bents 2 & 3.						
234 - Reinforced Concrete Pier Cap	1- Ben.	150	ft.	149	1	0	0
	Caps: 75' each / Bents 2 & 3. Some light staining due to leaking joint seals.						
1080 - Delamination/Spall/Patched Area		1		0	1	0	0
302 - Compression Joint Seal	1- Ben.	288	ft.	224	58	6	0
	Joints: 72' each \ Bents 1-4. Bent 2 left (northbound) lanes: Minor fire damage to joint material in left (outer) lane (12'). All joints seal have loss adhesion, torn ,and / or leaking .						
2310 - Leakage		42		0	36	6	0
2320 - Seal Adhesion		10		0	10	0	0
2330 - Seal Damage		12		0	12	0	0

Inspector:

Structure Number: 02071

Inspection Date:

Facility Carried: US 65-20 LM 11.31

Bridge Inspection Report

Element Inspection

311 - Movable Bearing	1- Ben.	39	each	0	29	10	0
	Moveable bearings: 13 per bent \ Bents 2b, 2a, & 3a. Coating: 3 square feet / each. Bent 2 Bearings 7-10 back and ahead: Some minor pack rust forming between plates. Remaining bearings: Minor freckled rust forming.						
1000 - Corrosion		39		0	29	10	0
313 - Fixed Bearing	1- Ben.	39	each	0	29	10	0
	Fixed bearings: 13 per bent \ Bents 1, 3b, & 4. Coating: 1 square feet / each. Bent 1 Bearings 9-11: Some minor pack rust forming between plates: Remaining bearings: Minor freckled rust forming.						
1000 - Corrosion		39		0	29	10	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	456	ft.	441	15	0	0
	Railing: 152' each side and median. Median railing: Minor- to moderate-sized vertical cracks every 8-10' (most have been sealed) (15' total).						
1130 - Cracking (RC and Other)		15		0	15	0	0

Inspector:

Structure Number: 02071

Inspection Date:

Facility Carried: US 65-20 LM 11.31

Bridge Inspection Report

Pictures



PHOTO 1

Description

PHOTO 1

Description

Inspector:

Inspection Date:

Structure Number: 02071

Facility Carried: US 65-20 LM 11.31

Bridge Inspection Report

Pictures

PHOTO 2

Description

PHOTO 2

Description

Inspector:

Inspection Date:

Structure Number: 02071

Facility Carried: US 65-20 LM 11.31

Bridge Inspection Report

Sketches

Inspector:

Structure Number: 02071

Inspection Date:

Facility Carried: US 65-20 LM 11.31

Bridge Inspection Report

Maintenance Needs

Date Reported: 03/12/2019

Priority: D - Routine

Work Code:

Deficiency Description:

Bearings: most bearing have flaking rust forming due to leaking joint seals.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Bent 4 bearing 9 has flaking rust due to leaking joint seals.

Stage: Open



PHOTO 2 Description Bent 2 bearing 9 has heavy corrosion.

Inspector:

Structure Number: 02071

Inspection Date:

Facility Carried: US 65-20 LM 11.31

Bridge Inspection Report

Maintenance Needs

Date Reported: 03/30/2015

Priority: D - Routine

Work Code: Repair

Deficiency Description:

Deck - all spans: Unsealed, minor- to moderate-sized cracks (transverse, longitudinal, and a couple diagonals) - heavier in right (southbound) lanes

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Span 1 left Typical cracking

Stage: Monitor



PHOTO 2 Description Span 1 northbound lane has large cracking in deck.

Inspector:

Inspection Date:

Structure Number: 02071

Facility Carried: US 65-20 LM 11.31

Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 3 Description Deck south bound span 2 nacentrr line
has large urns Alex cracks.

Inspector:

Structure Number: 02071

Inspection Date:

Facility Carried: US 65-20 LM 11.31

Bridge Inspection Report

Maintenance Needs

Date Reported: 03/30/2015

Priority: D - Routine

Work Code: Repair

Deficiency Description:

Deck - Bent 2 left (northbound) lanes: Fire damage (shallow spalls and delaminations) (12' x 12' area).

Joint - Bent 2 left (northbound) lanes: Minor fire damage to joint material in left (outer) lane (12').

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Bent 2 north bound lane joint seal has debris impacting loss of adhesion and are leaking.(Common on bent 3 also on North bound sides).

Stage: Open



PHOTO 2 Description Deck - Bent 2 left side (northbound lanes): Fire damage

Inspector:

Structure Number: 02071

Inspection Date:

Facility Carried: US 65-20 LM 11.31

Bridge Inspection Report

Maintenance Needs

Date Reported: 03/06/2017

Priority: D - Routine

Work Code:

Deficiency Description:

All joints seals have adhesion loss or are torn and or leaking .

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Bent 2 north bound lane joint seal has debris impacting loss of adhesion and are leaking.(Common on bent 3 also on North bound sides).

Stage: Open



PHOTO 2 Description Bent 2 as approach south bound expansion seal torn and leaking

Inspector:

Inspection Date:

Structure Number: 02071

Facility Carried: US 65-20 LM 11.31

Bridge Inspection Report

Maintenance Needs

Stage: Open



PHOTO 3 Description Joint seal leaking bent 1 north bound lane

Stage: Open



PHOTO 4 Description Fire damage northbound bents 1&2