

Bridge Inspection Report

A1018
US 79-09 Business
over
Caney Bayou



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

Structure Number: A1018

Inspection Date:

Facility Carried: US 79-09 Business

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	10/11/2017
(8) STRUCTURE NUMBER	A1018	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 6 79 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	02 (3) COUNTY CODE 069	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	52800	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Caney Bayou	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 79-09 Business	CONDITION	
(9) LOCATION	1.6 Mi N US 65B-PineBluff	(58) DECK	7
(11) MILEPOINT 6.110	(12) BASE HIGHWAY NETWORK 1	(59) SUPERSTRUCTURE 6	(60) SUBSTRUCTURE 7
(13A) LRS INVENTORY ROUTE	000007909B (13B) SUBROUTE NUMBER 00	(61) CHANNEL & CHANNEL PROTECTION	7 (62) CULVERT N
(16) LATITUDE 34.25297	(17) LONGITUDE -92.01689	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
(43) STRUCTURE TYPE, MAIN		(65) METHOD USED TO DETERMINE INVENTORY RATING	1
A) KIND OF MATERIAL/DESIGN:	2 - Concrete continuous	(66) INVENTORY RATING	36
B) TYPE OF DESIGN/CONSTR:	11 - Arch - Deck	(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	3 (46) NUMBER OF APPROACH	(68) DECK GEOMETRY	3
(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	1929 (106) YEAR RECONSTRUCTED	(36) TRAFFIC SAFETY FEATURE	
(42) TYPE OF SERVICE	ON 1 UNDER 5	36A) BRIDGE RAILINGS:	1
(28) LANES	ON 04 UNDER 00	36B) TRANSITIONS:	1
(29) AVERAGE DAILY TRAFFIC	4700 (19) BYPASS DETOUR LENGTH	36C) APPROACH GUARDRAIL:	0
(30) YEAR OF AVERAGE DAILY TRAFFIC	2013	36D) APPROACH GUARDRAIL ENDS:	1
(109) AVERAGE DAILY TRUCK TRAFFIC	1	(113) SCOUR CRITICAL BRIDGES	5
GEOMETRIC DATA		SUFFICIENCY RATING	2 STATUS 76.5
(48) LENGTH OF MAX SPAN (ft.)	52 (49) STRUCTURE LENGTH (ft.)	92	
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 4 RIGHT 4	CLASSIFICATION	
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	49.9	(112) NBIS BRIDGE LENGTH	Y
(52) DECK WIDTH, OUT-TO-OUT (ft.)	60	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(32) APPROACH ROADWAY WIDTH (ft.)	59.1	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	14
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	(100) STRAHNET HIGHWAY DESIGNATION	0
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	(101) PARALLEL STRUCTURE DESIGNATION	N
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	58.1	(102) DIRECTION OF TRAFFIC	2
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	(103) TEMP STRUCTURE	
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	(105) FEDERAL LANDS HIGHWAYS	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(110) DESIGNATED NATIONAL NETWORK	1
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	(20) TOLL	3
PROPOSED IMPROVEMENTS		(21) MAINTENANCE RESPONSIBILITY	01
(75A) TYPE OF WORK PROPOSED	35 (75B) WORK DONE BY	(37) HISTORICAL	5
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	92.0	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	248	(39) NAV VERT CLEARANCE (ft.)	0
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2000	(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
(114) FUTURE ADT	6207 (115) YEAR OF FUTURE ADT	(40) NAV HORIZONTAL CLEARANCE (ft.)	0
	2028		

Note: 2.5 inches of ACHM overlay.

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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.	5520	sq. ft.	5334	142	44	0
<p>Deck: 60' wide x 92' long. Wearing surface: Significant deterioration with moderate- to large-sized cracking in asphalt wearing surface with some small, shallow potholes at bridge end, especially in right outside lane. Some potholes have been patched and new ones have formed. Stormwater is leaking through cracks and down onto abutments and ends of arches at Bents 1 & 4.</p> <p>Soffit: A couple scatted, very small areas of cracking and delamination with efflorescence. Some leakage and efflorescence along cold joint where deck was widened. Span 3 Bay 3 & 4: Exposed rebar with section loss. CS3 24'</p>							
1080 - Delamination/Spall/Patched Area		1			1		
1090 - Exposed Rebar		24				24	
1120 - Efflorescence/Rust Staining		160			140	20	
1130 - Cracking (RC and Other)		1			1		
510 - Wearing Surfaces		4600	sq. ft.	993	3607	0	0
3210 - Delamination/Spall/Patched Area/Pothole (Wearing Surfaces)		7			7		
3220 - Crack (Wearing Surface)		3600			3600		
107 - Steel Open Girder/Beam	1- Ben.	368	ft.	368			
<p>Girders: 4 per span / 92' total span - Girders are numbered 1, 2, 6, & 7 (2 on each side of arches). Coating: 7.5 square feet per linear feet of girder. Some scattered areas where rust is beginning to form.</p>							
515 - Steel Protective Coating		2760	sq. ft.	2490	270	0	0
3440 - Effectiveness (Steel Protective Coatings)		270			270		

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144 - Reinforced Concrete Arch	1- Ben.	276	ft.	231	22	23	0
<p>Arches: 3 per span / 92' total span - Arches are numbered 3, 4, & 5. NOTE: Spans 1 & 3 arches are cantilevered at Bents 1 & 4.</p> <p>Span 1 Arches 3-5 @ Bent 1: Cracking and spalling with steel exposed (some section loss) - 2' of each arch. Span 1 Arch 3-5 @ Bent 2: Some vertical cracking located at high tension areas on cantilevered arches. (2' per arch)</p> <p>Span 2 Arch 3: Some large cracking on bottom of arch near 1/2 span and minor to moderate-sized cracking extending back to Bent 2 (CS3 6' CS2 14')</p> <p>Span 2 Arch 5: Some cracking and delamination on sides and bottom of arch near 1/3 span. (4')</p> <p>Arch 3 & 5 @ Bent 3: Minor to moderate-sized crack on outside of arch beginning at bearing area and traveling up arch at approximately 75 degree angle up to deck. Inside of Arch 3 has reflective cracking from outside (8')</p>							
1080 - Delamination/Spall/Patched Area		8			8		
1090 - Exposed Rebar		6				6	
1130 - Cracking (RC and Other)		31			14	17	
210 - Reinforced Concrete Pier Wall	1- Ben.	46	ft.	46			
Pier wall: 23' each / Bents 2 & 3.							
215 - Reinforced Concrete Abutment	1- Ben.	144	ft.	140	0	4	0
<p>Abutments: 72' each / Bents 1 & 4. Bents 1 & 4: Vertical cracking along joints between old and added-on sections of abutments. Bent 1 right: Large, vertical crack just right of Arch 5.</p>							
1130 - Cracking (RC and Other)		4				4	
227 - Reinforced Concrete Pile	1- Ben.	12	each	12			
Piling: 6 per bent / Bents 2 & 3.							
234 - Reinforced Concrete Pier Cap	1- Ben.	50	ft.	50			
Caps: 25' each bent (12.5' each side) / Bents 2 & 3.							
310 - Elastomeric Bearing	1- Ben.	8	each	1	0	7	0
<p>Elastomeric bearings: 4 per bent / Bents 1 & 4 - Bearings are numbered 1, 2, 6, & 7. Bearings 1, 2, 6, & 7 @ Bent 1 & Bearings 1, 2 & 6 @ Bent 4: 1/4-1/2" gap between girders and bearings.</p>							
1020 - Connection		7				7	
313 - Fixed Bearing	1- Ben.	8	each	8			
Fixed bearings: 4 per bent / Bents 2 & 3 - Bearings are numbered 1, 2, 6, & 7.							
330 - Metal Bridge Railing	1- Ben.	184	ft.	184			
Railing: 92' each side. Concrete curb and railing topped with metal railing.							
331 - Reinforced Concrete Bridge Railing	1- Ben.	184	ft.	184			
Railing: 92" each side. Concrete curb and railing topped with metal railing.							

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Maintenance Needs

Date Reported: 10/11/2017

Priority: C - Important

Work Code: N/A

Deficiency Description:

Log mile signs - both ends: No log mile signs. Posts and object markers are in place.

NOTE: One sign lying on slope at Bent 4 left.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Deck - Spans 1-3: Typical

Stage: Open



PHOTO 2 Description Log mile sign - Bent 4 left: Sign knocked down

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Maintenance Needs

Date Reported: 10/11/2017

Priority: G - General/ Preventive maintenance

Work Code: N/A

Deficiency Description:

Endslope - Span 3 left: Small trees, bushes, and other vegetation growing right along side or under bridge.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Endslope - Span 3 left: Vegetation

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Bridge Inspection Report

Maintenance Needs

Date Reported: 10/28/2013 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code: N/A

Deficiency Description:

Span 1 Arches 3-5 @ Bent 1: Some spalling on ends of girders at ends – reinforcing steel exposed with some section loss.

NOTE: Spans 1 & 3 arches are cantilevered at Bents 1 & 4.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Inspector:

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Maintenance Needs

Date Reported: 10/28/2013 12:00:00 AM

Priority: C - Important

Work Code: N/A

Deficiency Description:

Deck – all spans: Significant deterioration with moderate- to large-sized cracking in asphalt wearing surface with some small, shallow potholes at bridge end, especially in right outside lane. Some potholes have been patched and new ones have formed.

Stormwater is leaking through cracks and down onto abutments and ends of arches at Bents 1 & 4.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Wearing surface @ Bent 1: Potholes/patches

Stage: Monitor



PHOTO 2 Description Wearing surface - Span 2 right: Cracking/deterioration

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Maintenance Needs

Date Reported: 10/28/2013 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code: N/A

Deficiency Description:

Abutment – Bent 1 right: Large, vertical crack just right of Arch 5.
(All 4 corners where bridge was widened at the Abutments have similar vertical cracking)

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Abutment 1 right: Cracking