

Bridge Inspection Report

M0019
SH 1B-04 LM 0.98
over
Prices Branch



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

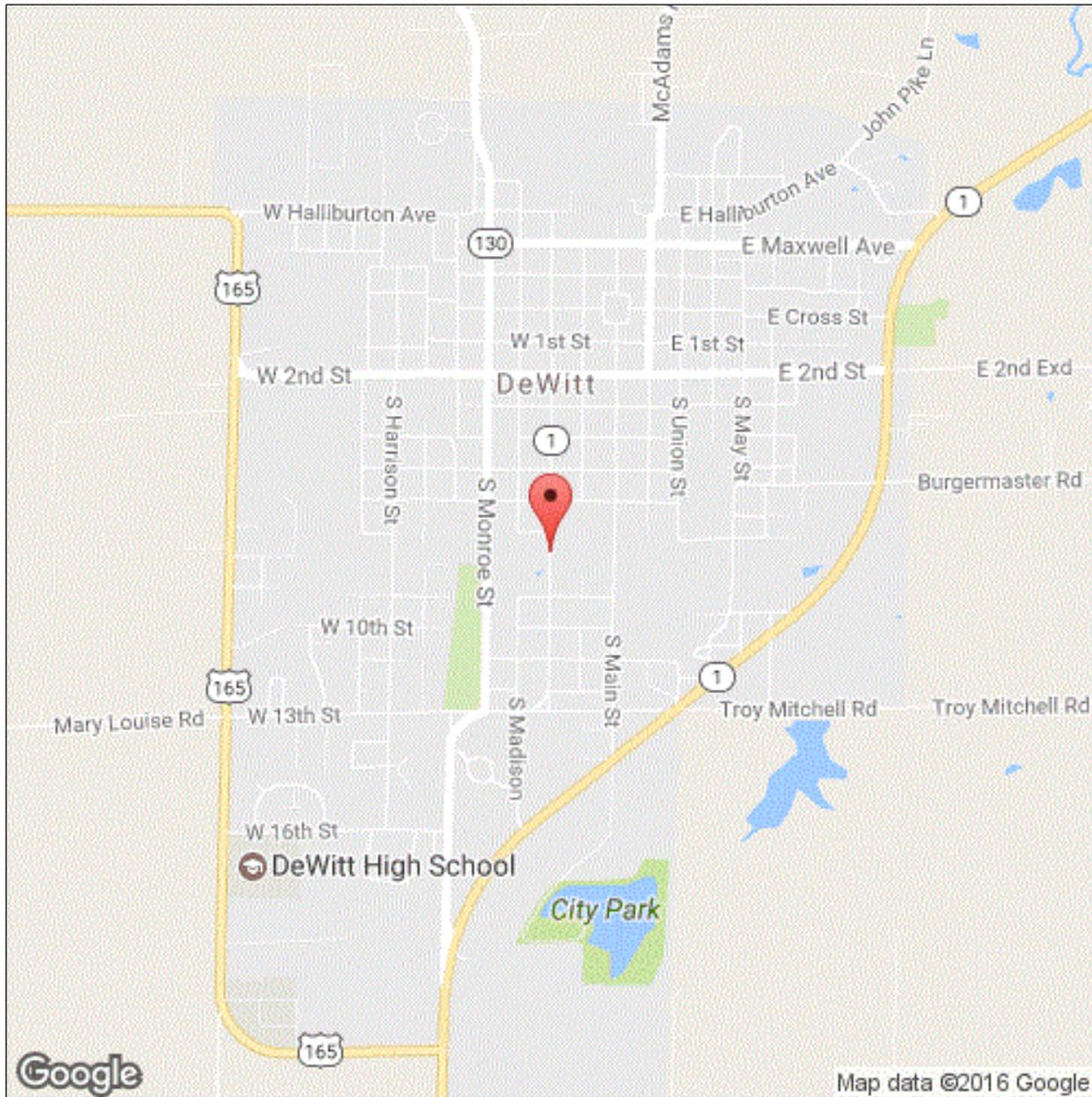
Structure Number: M0019

Inspection Date:

Facility Carried: SH 1B-04 LM 0.98

Bridge Inspection Report

Location Map



Latitude: 34.28743

Longitude: -91.33768

Inspector:

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Bridge Inspection Report

Executive Summary

Bridge is logged from south to north.

04-06-2010 GGL-GLM: Bridge changed from RC box culvert to RC slab to more accurately reflect structure.

Inspector:

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	04/17/2019
(8) STRUCTURE NUMBER	M0019	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 6 1 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	02 (3) COUNTY CODE 001	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	18420	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Prices Branch	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 1B-04 LM 0.98	CONDITION	
(9) LOCATION	0.98 Mi N SH 1-DeWitt	(58) DECK	5
(11) MILEPOINT 0.980	(12) BASE HIGHWAY NETWORK 0	(59) SUPERSTRUCTURE 5	(60) SUBSTRUCTURE 5
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00	(61) CHANNEL & CHANNEL PROTECTION 5	(62) CULVERT N
(16) LATITUDE 34.28743	(17) LONGITUDE -91.33768	LOAD RATING AND POSTING	
(98A) BORDER BRIDGE CODE		(31) DESIGN LOAD	0
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT	(63) METHOD USED TO DETERMINE OPERATING RATING	1
STRUCTURE TYPE AND MATERIAL		(64) OPERATING RATING	31.0
(43) STRUCTURE TYPE, MAIN		(65) METHOD USED TO DETERMINE INVENTORY RATING	1
A) KIND OF MATERIAL/DESIGN:	1 - Concrete	(66) INVENTORY RATING	19.0
B) TYPE OF DESIGN/CONSTR:	01 - Slab	(70) BRIDGE POSTING	2
(44) STRUCTURE TYPE, APPROACH SPANS		(41) STRUCTURE OPEN/POSTED/CLOSED	P
A) KIND OF MATERIAL/DESIGN:	0 - Other	APPRAISAL	
B) TYPE OF DESIGN/CONSTR:	00 - Other	(67) STRUCTURAL EVALUATION	4
(45) NUMBER OF SPANS IN MAIN	2 (46) NUMBER OF APPROACH	(68) DECK GEOMETRY	2
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(108B) DECK MEMBRANE	N (108C) DECK PROTECTION	(71) WATERWAY ADEQUACY	6
	N	(72) APPROACH ROADWAY ALIGNMENT	8
AGE OF SERVICE		(36) TRAFFIC SAFETY FEATURE	
(27) YEAR BUILT	1937 (106) YEAR RECONSTRUCTED	36A) BRIDGE RAILINGS:	0
(42) TYPE OF SERVICE	ON 1 UNDER 5	36B) TRANSITIONS:	0
(28) LANES	ON 02 UNDER 00	36C) APPROACH GUARDRAIL:	0
(29) AVERAGE DAILY TRAFFIC	2800 (19) BYPASS DETOUR LENGTH	36D) APPROACH GUARDRAIL ENDS:	0
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(113) SCOUR CRITICAL BRIDGES	8
(109) AVERAGE DAILY TRUCK TRAFFIC	1	SUFFICIENCY RATING	48.1 STATUS 2
GEOMETRIC DATA		CLASSIFICATION	
(48) LENGTH OF MAX SPAN (ft.)	20 (49) STRUCTURE LENGTH (ft.)	(112) NBIS BRIDGE LENGTH	Y
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0 RIGHT 0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	22.3	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	07
(52) DECK WIDTH, OUT-TO-OUT (ft.)	25	(100) STRAHNET HIGHWAY DESIGNATION	0
(32) APPROACH ROADWAY WIDTH (ft.)	24.0	(101) PARALLEL STRUCTURE DESIGNATION	N
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	(102) DIRECTION OF TRAFFIC	2
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	(103) TEMP STRUCTURE	
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	23.3	(105) FEDERAL LANDS HIGHWAYS	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	(110) DESIGNATED NATIONAL NETWORK	0
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	(20) TOLL	3
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(21) MAINTENANCE RESPONSIBILITY	01
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	(22) OWNER	01
PROPOSED IMPROVEMENTS		(37) HISTORICAL	5
(75A) TYPE OF WORK PROPOSED	31 (75B) WORK DONE BY	1	
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	65	NAVIGATION DATA	
(94) BRIDGE IMPROVEMENT COST (\$)	0	(38) NAVIGATION CONTROL	0
(95) ROADWAY IMPROVEMENT COST (\$)	125	(111) PIER OR ABUTMENT PROTECTION	5
(96) TOTAL PROJECT COST	312	(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	3650 (115) YEAR OF FUTURE ADT	(40) NAV HORIZONTAL CLEARANCE (ft.)	0
	2028		

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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
38 - Reinforced Concrete Slab	1- Ben.	1081	sq. ft.	906	0	175	0
<p>Deck: 25.0' wide x 43.25' long. Wearing surface: Moderate-sized longitudinal crack in asphalt wearing surface near centerline.</p> <p>Sides and bottom corners of deck - left & side sides: Cracking and delaminating with heavy efflorescence & some spalling. Some reinforcing steel exposed at Bent 1 right with section loss of steel.</p> <p>Soffit - Spans 1 & 2 left & right side: Shallow delaminations and spalls with some reinforcing steel exposed (minor to moderate section loss of steel) on outside 2-5' of soffit (under gutter area).</p> <p>NOTE: Spans 1 & 2 have a noticeable sag/swag on bottom of slabs (as-built?).</p>							
1080 - Delamination/Spall/Patched Area		20		0	0	20	0
1090 - Exposed Rebar		65		0	0	65	0
1120 - Efflorescence/Rust Staining		90		0	0	90	0
510 - Wearing Surfaces		964	sq. ft.	921	0	43	0
3220 - Crack (Wearing Surface)		43		0	0	43	0
210 - Reinforced Concrete Pier Wall	1- Ben.	25	ft.	0	0	25	0
<p>Pier wall: 25' \ Bent 2. Some abrasion following the waterline and some scattered honeycomb with rebar that has section loss (some rebar has rusted almost completely away), especially Bent 2 back.</p>							
1090 - Exposed Rebar		8		0	0	8	0
1190 - Abrasion/Wear (PSC/RC)		17		0	0	17	0
215 - Reinforced Concrete Abutment	1- Ben.	50	ft.	0	21	29	0
<p>Abutments: 25' each \ Bents 1 & 3. Some abrasion following the waterline and some scattered honeycomb.</p> <p>Bent 1: Some cracking with heavy efflorescence near top on left side. Left wingwall has broken loose and fallen to bottom of channel.</p> <p>Bent 3 right: Cracking down face of abutment at joint to wing (no steel exposed).</p> <p>Left side (upstream): Some repair work to stabilize Bent 1 left side slope - some minor active erosion.</p> <p>Span 2: Silt build-up is channeling low to moderate water flow only under Span 1.</p>							
1120 - Efflorescence/Rust Staining		15		0	1	14	0
1190 - Abrasion/Wear (PSC/RC)		34		0	19	15	0
6000 - Scour		1		0	1	0	0

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Bridge Inspection Report

Element Inspection

331 - Reinforced Concrete Bridge Railing	1- Ben.	86	ft.	84	2	0	0
	Railing: 43' each side. Span 1 right @ Bent 1: Some impact damage.						
1090 - Exposed Rebar		1		0	1	0	0
7000 - Damage		1		0	1	0	0

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Bridge Inspection Report

Pictures

PHOTO 1

Description

PHOTO 2

Description

Inspector:

Inspection Date:

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Bridge Inspection Report

Sketches

Inspector:

Structure Number: M0019

Inspection Date:

Facility Carried: SH 1B-04 LM 0.98

Bridge Inspection Report

Maintenance Needs

Date Reported: 04/20/2016

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Sides and bottom corners of deck – left & right sides: Cracking and delaminating with heavy efflorescence & some spalling. Some reinforcing steel exposed at Bent 1 right with section loss of steel.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Deck - Span 2 left: Cracks, spalls, and delaminations.

Stage: Monitor



PHOTO 2 Description Cracks to side of slab with some spalling.

Inspector:

Structure Number: M0019

Inspection Date:

Facility Carried: SH 1B-04 LM 0.98

Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 3 Description Deck - Span 1 right: Rebar exposed with section loss.

Stage: Assigned



PHOTO 5 Description Left side of slab cracks with efflorescence.

Stage: Assigned



PHOTO 4 Description Deck - Right side Span 1 : Exposed rebar and Deterioration

Stage: Assigned



PHOTO 6 Description Span 2 left soffit area has spalling, cracking with efflorescence, and exposed rebar with section loss.

Inspector:

Structure Number: M0019

Inspection Date:

Facility Carried: SH 1B-04 LM 0.98

Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 7 Description Span 1 right spalling with exposed rebar to outer edge of soffit.

Stage: Assigned



PHOTO 8 Description Elevation.

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 04/17/2019

Priority: C - Important

Work Code: N/A

Deficiency Description:

Soffit – Spans 1 & 2 left & right side: Delams and spalls with some reinforcing steel exposed with significant section loss, on outside 2-6' of soffit (under gutter area).

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Span 2 soffit spalls with exposed rebar.

Stage: Assigned



PHOTO 2 Description Soffit - Span 2: Exposed steel with section loss

Inspector:

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Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 3 Description Soffit - Span 2 : Exposed rebar

Stage: Assigned



PHOTO 4 Description Span 1 just ahead of mid span left has spalls with exposed rebar in soffit.

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Bridge Inspection Report

Maintenance Needs

Date Reported: 04/20/2016

Priority: D - Routine

Work Code: N/A

Deficiency Description:

Pier wall – Bent 2 back side: Reinforcing steel in honeycombed area has section loss – some has rusted almost completely away.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor

Stage: Monitor



PHOTO 1 Description Bent 2 pier wall back has heavy abrasion and spalling with exposed rebar.

PHOTO 2 Description Bent 2 back side: Rebar exposed with severe section loss

Inspector:

Structure Number: M0019

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 3 Description Pier wall - Bent 2 : Exposed rebar

Stage: Monitor



PHOTO 4 Description Pier wall ahead at span 2 has large honeycombed area with exposed rebar.

Inspector:

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Maintenance Needs

Date Reported: 04/20/2016

Priority: G - General/ Preventive maintenance

Work Code: N/A

Deficiency Description:

Abutment – Bent 3 right: Cracking down face of abutment at joint to wing (no steel exposed).

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Bent 3: Cracking at wingwall

Stage: Monitor



PHOTO 2 Description Abutment - Bent 3 right : Cracking

Inspector:

Structure Number: M0019

Inspection Date:

Facility Carried: SH 1B-04 LM 0.98

Bridge Inspection Report

Maintenance Needs

Date Reported: 04/17/2017

Priority: G - General/ Preventive maintenance

Work Code: N/A

Deficiency Description:

Wearing surface - Bents 1 & 3: Some transverse cracking and deterioration of asphalt at bridge ends - allowing stormwater access to subgrade.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Wearing surface - Bent 1: Transverse cracking

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Maintenance Needs

Date Reported: 04/30/2018

Priority: C - Important

Work Code: N/A

Deficiency Description:

Log mile sign - Bent 3 left: No sign in place - post and object marker in place.

Work Description:

Replaced by State Forces.

Date Repairs Completed: 04/17/2019

Maintenance Comments:

Completed.

Stage: Open



PHOTO 1 Description Sign 2