

Bridge Inspection Report

02729

SH 137-01S-LM 1.20

over

DITCH 38



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

Structure Number: 02729

Inspection Date:

Facility Carried: SH 137-01S-LM 1.20

Bridge Inspection Report

Location Map



Latitude: 35.92536

Longitude: -89.78559

Inspector:

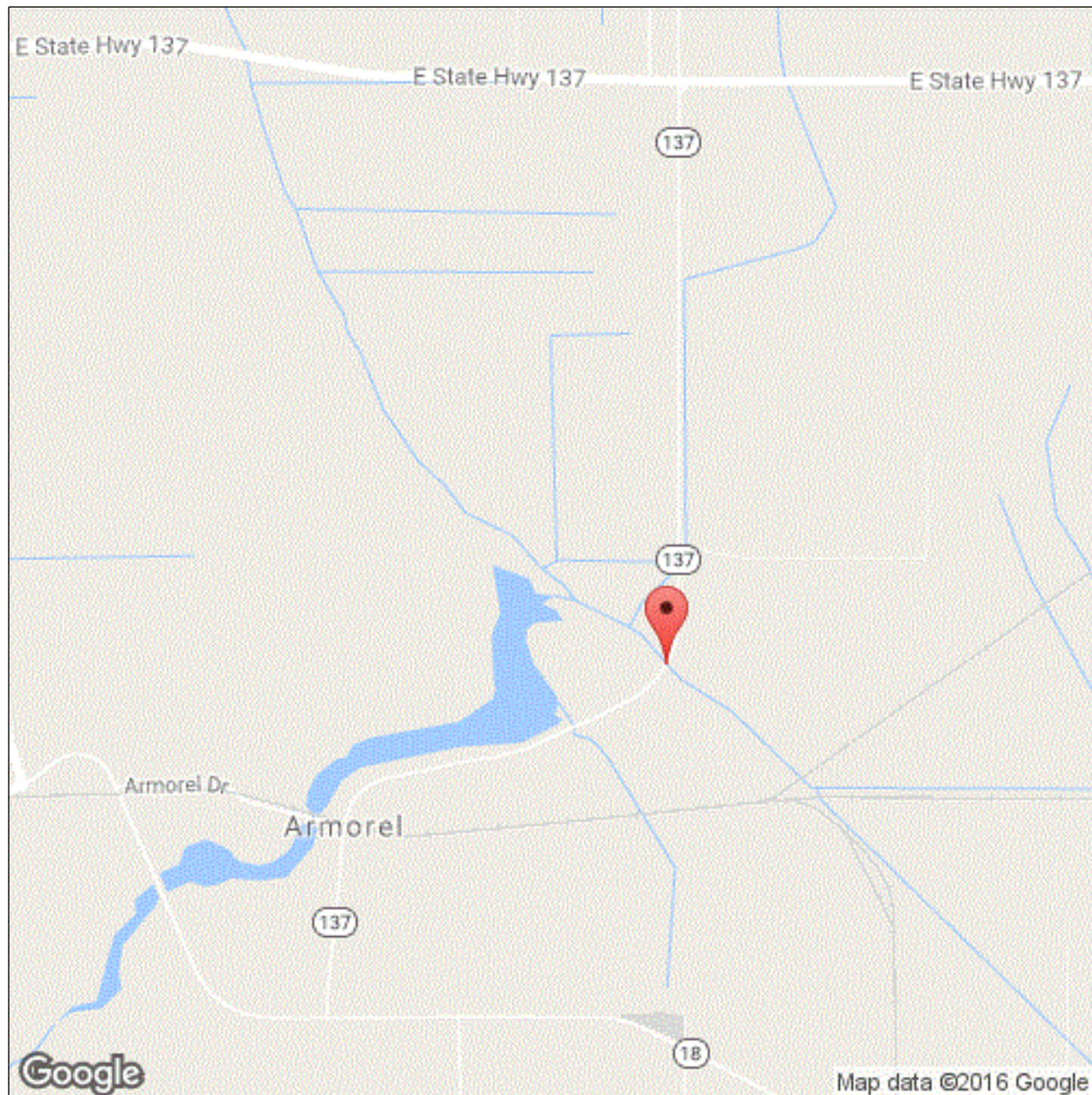
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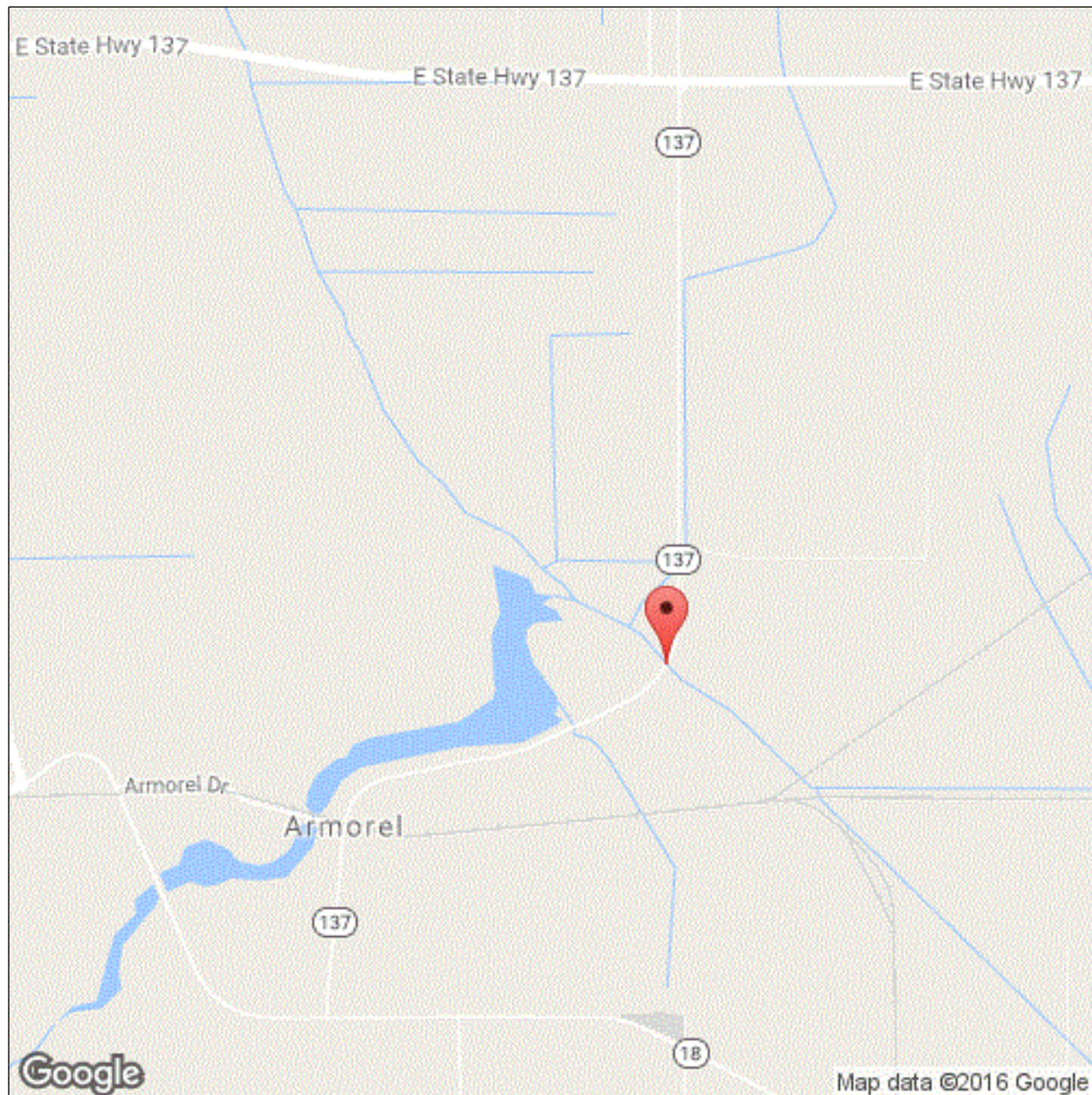
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Bridge Inspection Report

Executive Summary

Inspector:

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	09/17/2018
(8) STRUCTURE NUMBER	02729	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 4 137 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	10 (3) COUNTY CODE 093	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	DITCH 38	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 137-01S-LM 1.20		
(9) LOCATION	.80 MI N OF ARMOREL ARK		
(11) MILEPOINT 1.200	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE	35.92536 (17) LONGITUDE -89.78559		
(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	6 (60) SUBSTRUCTURE 6
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(61) CHANNEL & CHANNEL PROTECTION	7 (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		
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE		
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1950 (106) YEAR RECONSTRUCTED	(31) DESIGN LOAD	2
(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	48
(29) AVERAGE DAILY TRAFFIC	720 (19) BYPASS DETOUR LENGTH	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(66) INVENTORY RATING	29
(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.)	30 (49) STRUCTURE LENGTH (ft.)	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 1 RIGHT 1	(68) DECK GEOMETRY	4
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	24.0	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	26.7	(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.)	27.9	(72) APPROACH ROADWAY ALIGNMENT	7
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	36A) BRIDGE RAILINGS:	0
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	25.9	36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	36D) APPROACH GUARDRAIL ENDS:	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(113) SCOUR CRITICAL BRIDGES	5
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	SUFFICIENCY RATING	75.7 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	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	1037 (115) YEAR OF FUTURE ADT	(103) TEMP STRUCTURE	
	2028	(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

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Element Inspection

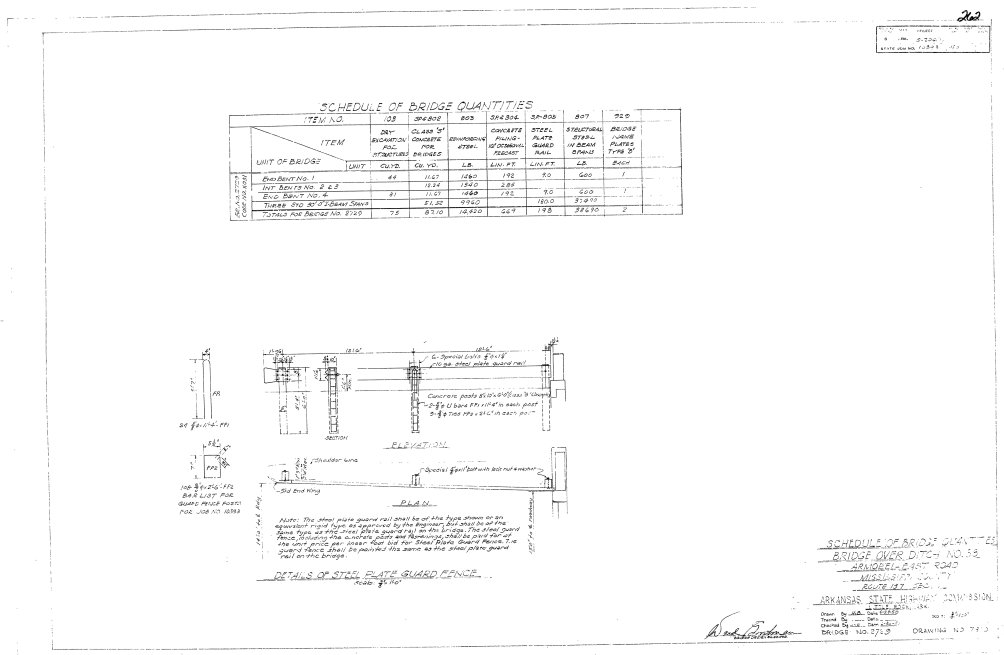
	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	2295	sq. ft.	1774	496	25	0
1080 - Delamination/Spall/Patched Area		17		0	0	17	0
1090 - Exposed Rebar		8		0	0	8	0
1120 - Efflorescence/Rust Staining		7		0	7	0	0
1190 - Abrasion/Wear (PSC/RC)		489		0	489	0	0
510 - Wearing Surfaces		1932	sq. ft.	1802	60	70	0
3210 - Delamination/Spall/Patched Area/Pothole (Wearing Surfaces)		70		0	0	70	0
3220 - Crack (Wearing Surface)		60		0	60	0	0
107 - Steel Open Girder/Beam	1- Ben.	360	ft.	0	288	71	1
1000 - Corrosion		360		0	288	71	1
515 - Steel Protective Coating		2682	sq. ft.	0	569	1668	445
3440 - Effectiveness (Steel Protective Coatings)		2682		0	569	1668	445
215 - Reinforced Concrete Abutment	1- Ben.	68	ft.	68	0	0	0
227 - Reinforced Concrete Pile	1- Ben.	8	each	8	0	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	48	ft.	37	10	1	0
1090 - Exposed Rebar		1		0	0	1	0
1120 - Efflorescence/Rust Staining		6		0	6	0	0
1130 - Cracking (RC and Other)		4		0	4	0	0
304 - Open Expansion Joint	1- Ben.	48	ft.	48	0	0	0
305 - Assembly Joint without Seal	1- Ben.	55	ft.	55	0	0	0
311 - Movable Bearing	1- Ben.	12	each	0	0	12	0
1000 - Corrosion		12		0	0	12	0
313 - Fixed Bearing	1- Ben.	12	each	0	0	12	0
1000 - Corrosion		12		0	0	12	0
330 - Metal Bridge Railing	1- Ben.	184	ft.	0	26	158	0
1000 - Corrosion		171		0	26	145	0
7000 - Damage		13		0	0	13	0

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Pictures

Description



Description

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Bridge Inspection Report

Pictures

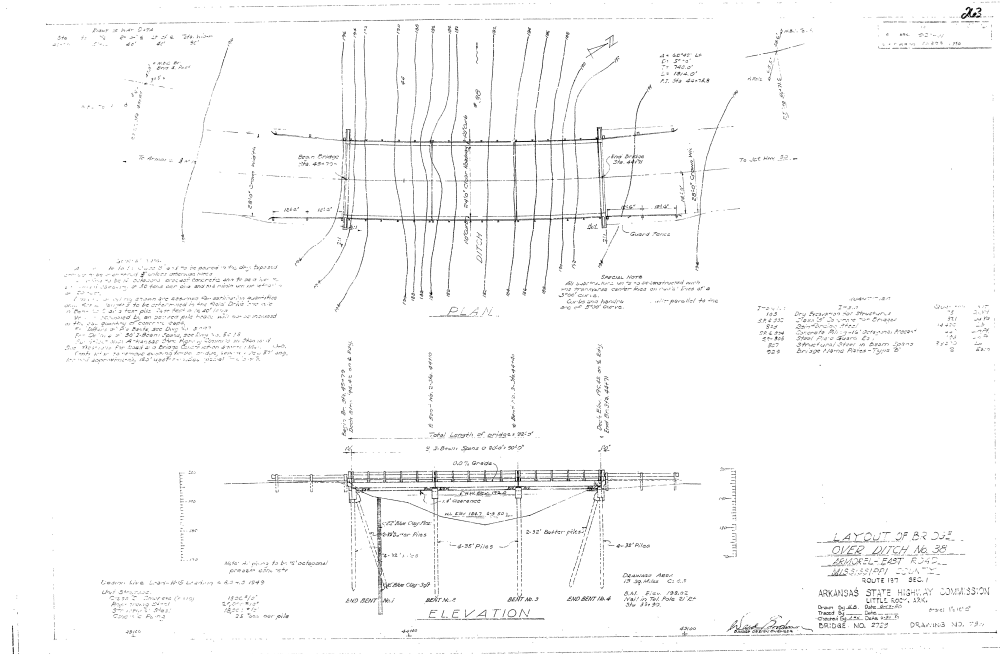


PHOTO 2

Description

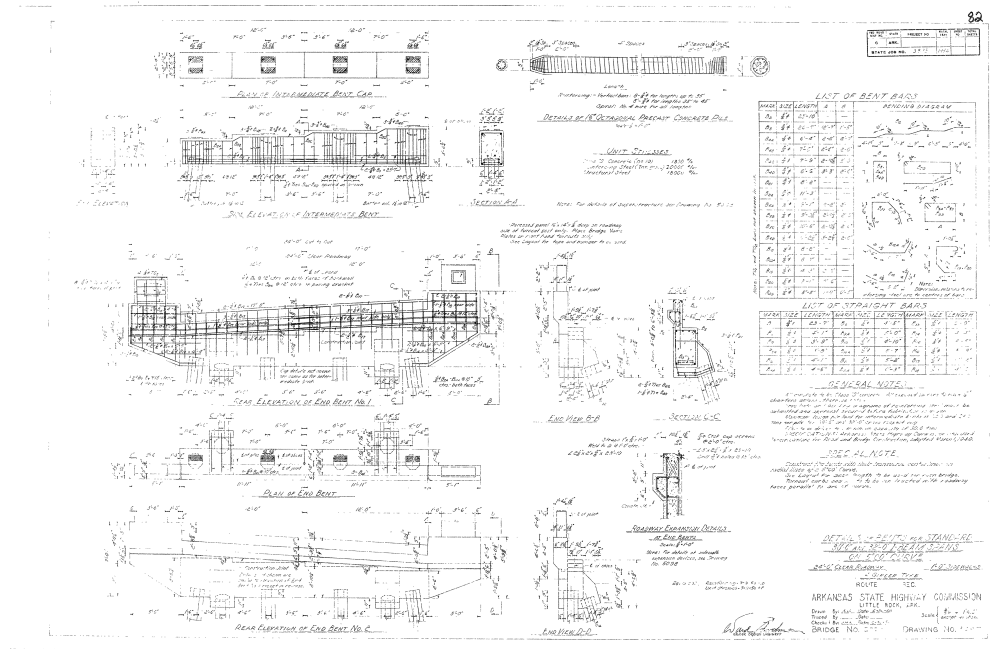


PHOTO 3

Description

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Pictures

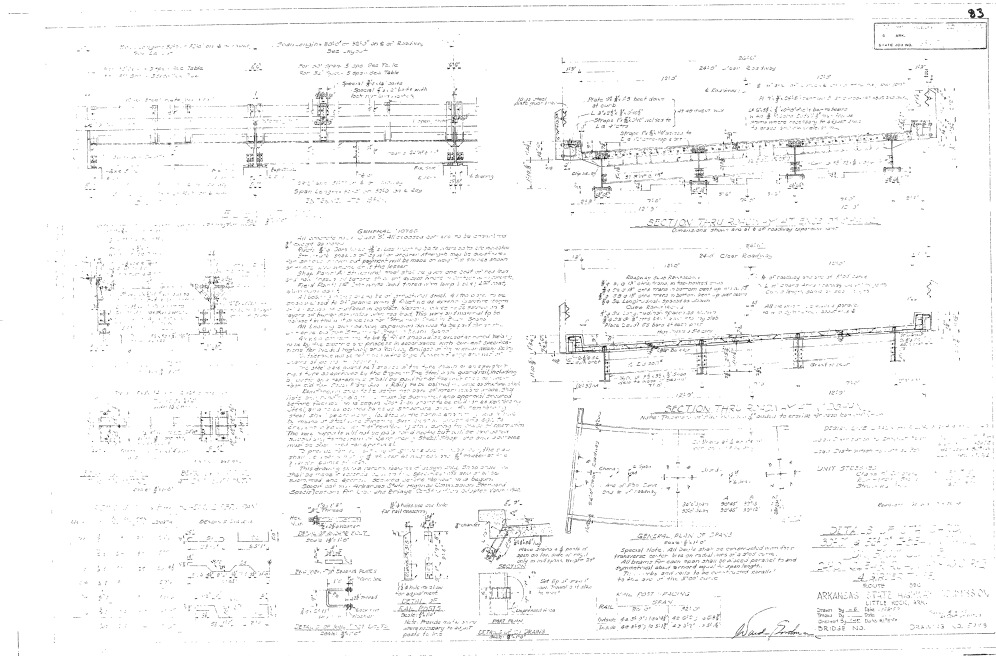


PHOTO 4

Description

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Bridge Inspection Report

Sketches

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 10/2/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Metal Bridge Rails have 100% paint deterioration and rusted with some pitting.
Left side of Span 2 has 13LF collision damage of Bridge Rail and left side of bridge has 3 metal Post twisted or bent, see 2016 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Inspector:

Structure Number: 02729

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 10/2/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Steel girders have 60% paint deterioration and rust with pitting.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

Structure Number: 02729

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 10/2/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Cap Bent 2 has 2 sealable cracks over Pile 2 with efflorescence. Left end of cap has some cracking with light efflorescence.

Left end of Cap Bent 3 has some map cracking with some light efflorescence.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Inspector:

Structure Number: 02729

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Bridge Inspection Report

Maintenance Needs

Date Reported: 09/01/2016

Priority: D - Routine

Work Code:

Deficiency Description:

Some Embankment Erosion under Spans 1&3 mainly due to roadway runoff.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 09/01/2016

Priority: D - Routine

Work Code:

Deficiency Description:

Concrete Deck Span 1 left gutter has a 1ft. x 1ft. spall with no rebar exposed.
Concrete Deck Span 3 right gutter has a 2ft. x 8ft. spall with no rebar exposed.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 09/17/2018

Priority: C - Important

Work Code:

Deficiency Description:

Span 3 girder 3 at bent 3 has a 1 in. x 2 in. hole in web at haunch.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Span 3 girder 3 over bent 3