

Bridge Inspection Report

06130
US 62-21- LM 1.00
over
BIG SLOUGH DITCH



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

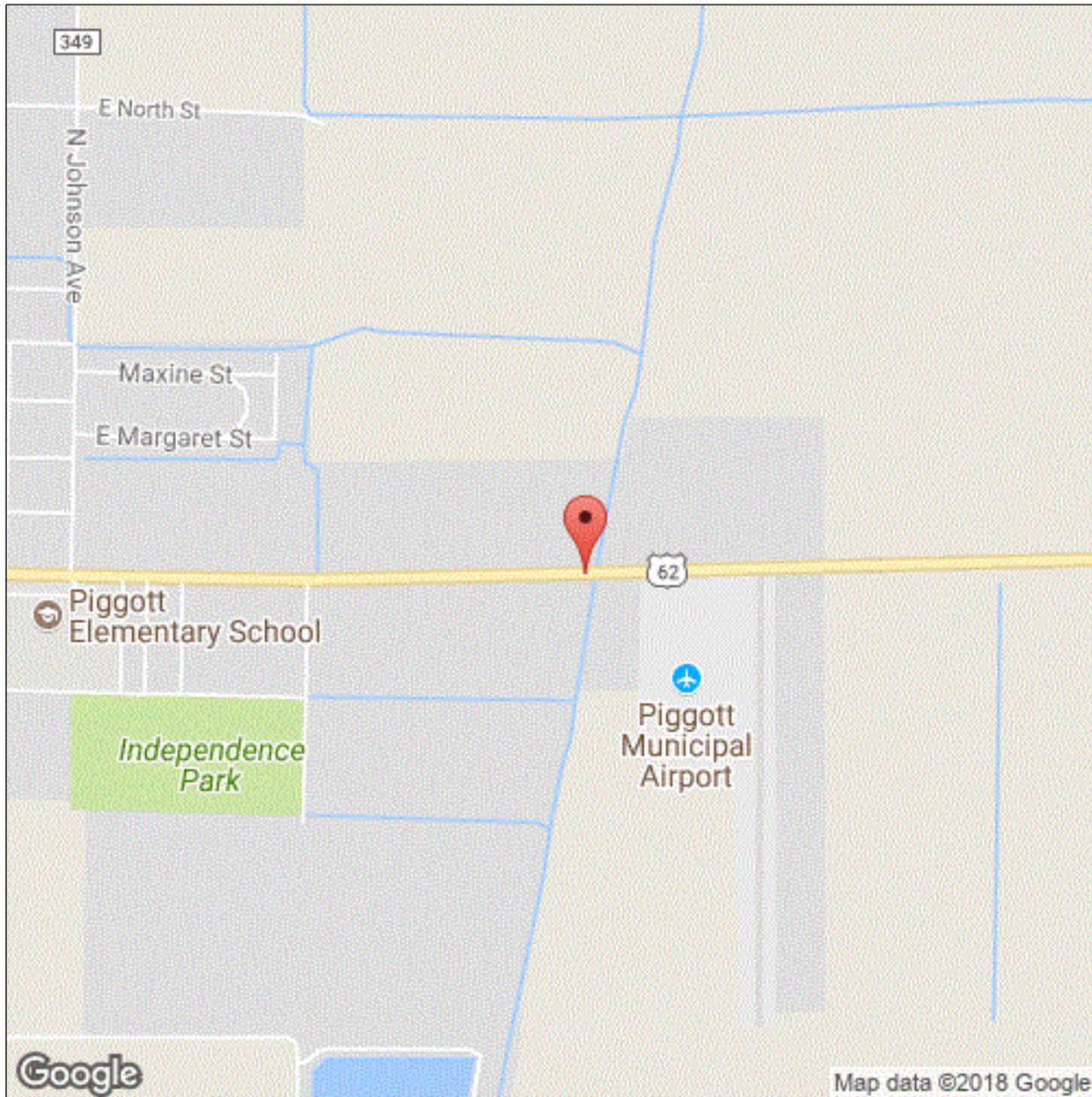
Structure Number: 06130

Inspection Date:

Facility Carried: US 62-21- LM 1.00

Bridge Inspection Report

Location Map



Latitude: 36.38181

Longitude: -90.16966

Inspector:

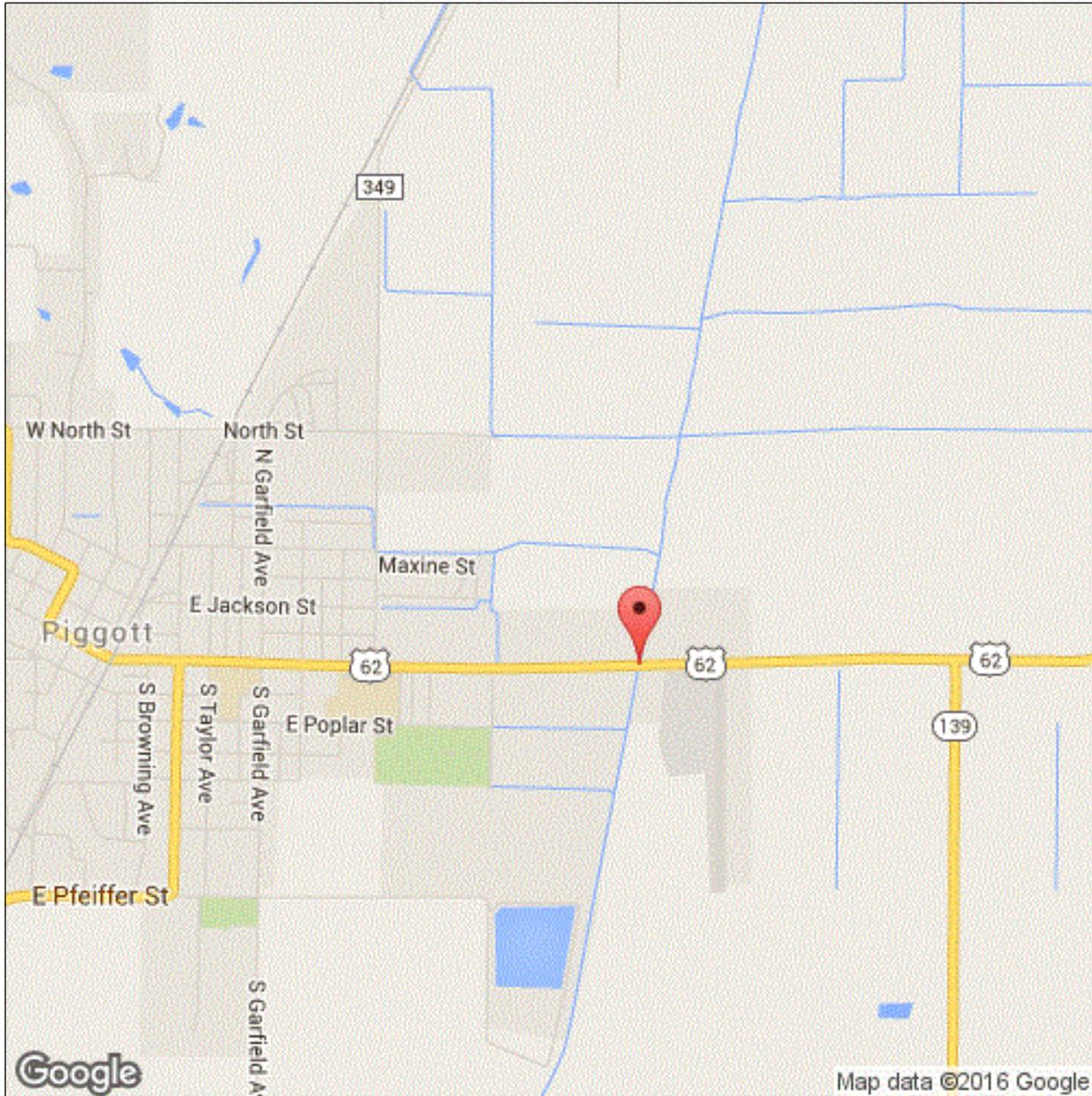
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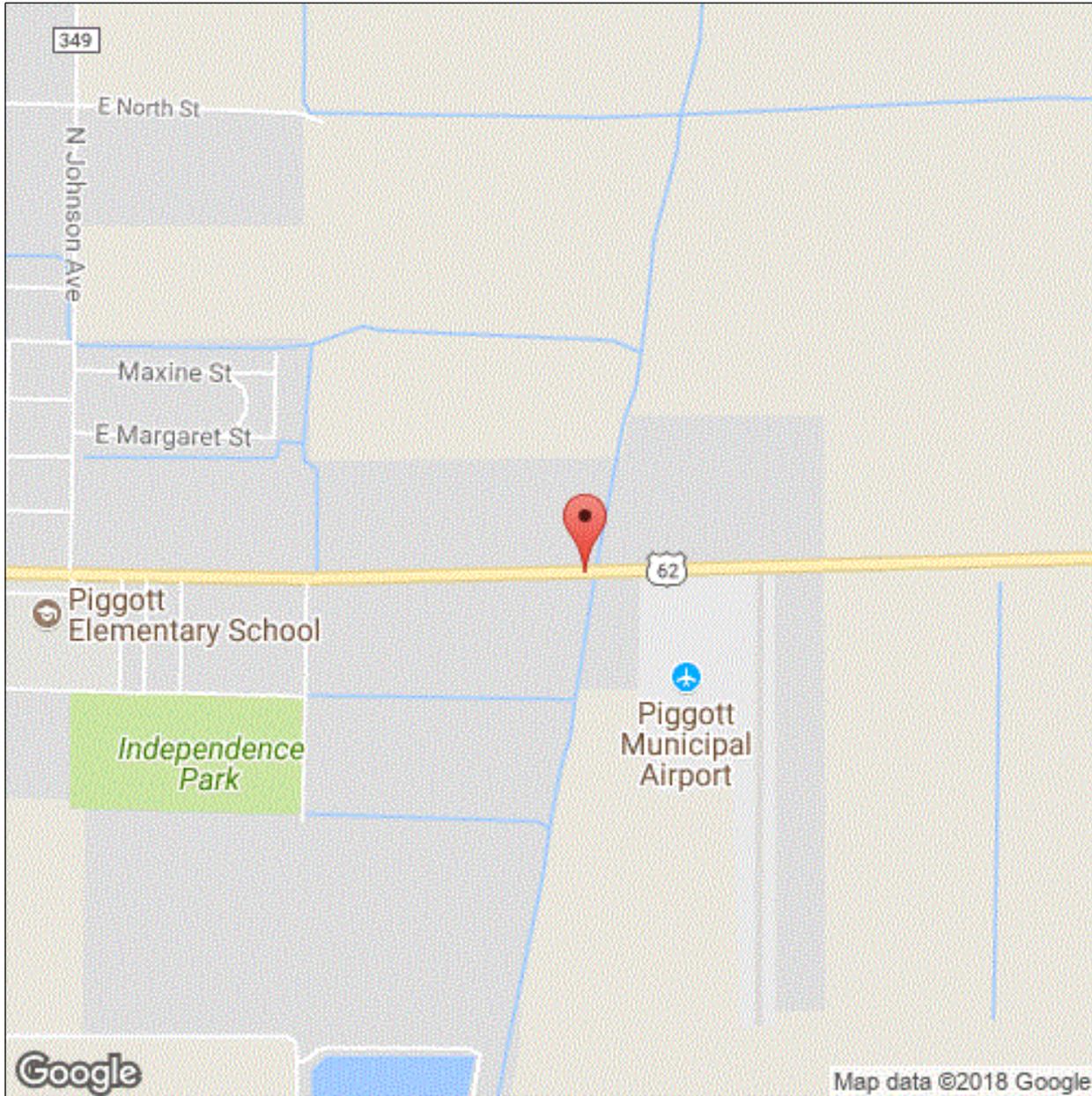
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Executive Summary

Inspector:

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	02/27/2018
(8) STRUCTURE NUMBER	06130	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 62 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	10 (3) COUNTY CODE 021	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	BIG SLOUGH DITCH	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 62-21- LM 1.00	CONDITION	
(9) LOCATION	1.00 MI E JCT US 49	(58) DECK	8
(11) MILEPOINT 1.000	(12) BASE HIGHWAY NETWORK 1	(59) SUPERSTRUCTURE	6 (60) SUBSTRUCTURE 8
(13A) LRS INVENTORY ROUTE	0000062210 (13B) SUBROUTE NUMBER 01	(61) CHANNEL & CHANNEL PROTECTION	7 (62) CULVERT N
(16) LATITUDE	36.38181 (17) LONGITUDE -90.16966	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	60.0
(43) STRUCTURE TYPE, MAIN		(65) METHOD USED TO DETERMINE INVENTORY RATING	1
A) KIND OF MATERIAL/DESIGN:	3 - Steel	(66) INVENTORY RATING	36.0
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder	(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	4 (46) NUMBER OF APPROACH	(68) DECK GEOMETRY	6
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION	(71) WATERWAY ADEQUACY	9
		(72) APPROACH ROADWAY ALIGNMENT	8
AGE OF SERVICE		(36) TRAFFIC SAFETY FEATURE	
(27) YEAR BUILT	1987 (106) YEAR RECONSTRUCTED	36A) BRIDGE RAILINGS:	1
(42) TYPE OF SERVICE	ON 1 UNDER 5	36B) TRANSITIONS:	1
(28) LANES	ON 02 UNDER 00	36C) APPROACH GUARDRAIL:	1
(29) AVERAGE DAILY TRAFFIC	3200 (19) BYPASS DETOUR LENGTH	36D) APPROACH GUARDRAIL ENDS:	1
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(113) SCOUR CRITICAL BRIDGES	5
(109) AVERAGE DAILY TRUCK TRAFFIC	1	SUFFICIENCY RATING	93.7 STATUS 0
GEOMETRIC DATA		CLASSIFICATION	
(48) LENGTH OF MAX SPAN (ft.)	45 (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.)	40.0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	06
(52) DECK WIDTH, OUT-TO-OUT (ft.)	42.8	(100) STRAHNET HIGHWAY DESIGNATION	0
(32) APPROACH ROADWAY WIDTH (ft.)	47.9	(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.)	41.3	(105) FEDERAL LANDS HIGHWAYS	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	(110) DESIGNATED NATIONAL NETWORK	1
(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	(37) HISTORICAL	5
PROPOSED IMPROVEMENTS		NAVIGATION DATA	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(38) NAVIGATION CONTROL	0
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0	(111) PIER OR ABUTMENT PROTECTION	5
(94) BRIDGE IMPROVEMENT COST (\$)	0	(39) NAV VERT CLEARANCE (ft.)	0
(95) ROADWAY IMPROVEMENT COST (\$)	0	(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
(96) TOTAL PROJECT COST	0	(40) NAV HORIZONTAL CLEARANCE (ft.)	0
(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(114) FUTURE ADT	4221 (115) YEAR OF FUTURE ADT		2028

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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.	7704	sq. ft.	7508	90	106	0
1080 - Delamination/Spall/Patched Area		14				14	
1090 - Exposed Rebar		2				2	
1120 - Efflorescence/Rust Staining		90				90	
1130 - Cracking (RC and Other)		90			90		
107 - Steel Open Girder/Beam	1- Ben.	1080	ft.	980	0	100	0
1000 - Corrosion		100				100	
515 - Steel Protective Coating		8873	sq. ft.	8227	0	646	0
3440 - Effectiveness (Steel Protective Coatings)		646				646	
215 - Reinforced Concrete Abutment	1- Ben.	104	ft.	94	10	0	0
1130 - Cracking (RC and Other)		10			10		
227 - Reinforced Concrete Pile	1- Ben.	18	each	10	8	0	0
6000 - Scour		8			8		
234 - Reinforced Concrete Pier Cap	1- Ben.	125	ft.	118	7	0	0
1130 - Cracking (RC and Other)		7			7		
302 - Compression Joint Seal	1- Ben.	215	ft.	0	0	215	0
2330 - Seal Damage		2				2	
2340 - Seal Cracking		213				213	
311 - Movable Bearing	1- Ben.	24	each	0	0	24	0
1000 - Corrosion		24				24	
313 - Fixed Bearing	1- Ben.	24	each	0	0	24	0
1000 - Corrosion		24				24	
331 - Reinforced Concrete Bridge Railing	1- Ben.	365	ft.	306	59	0	0
1130 - Cracking (RC and Other)		59			59		

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Pictures

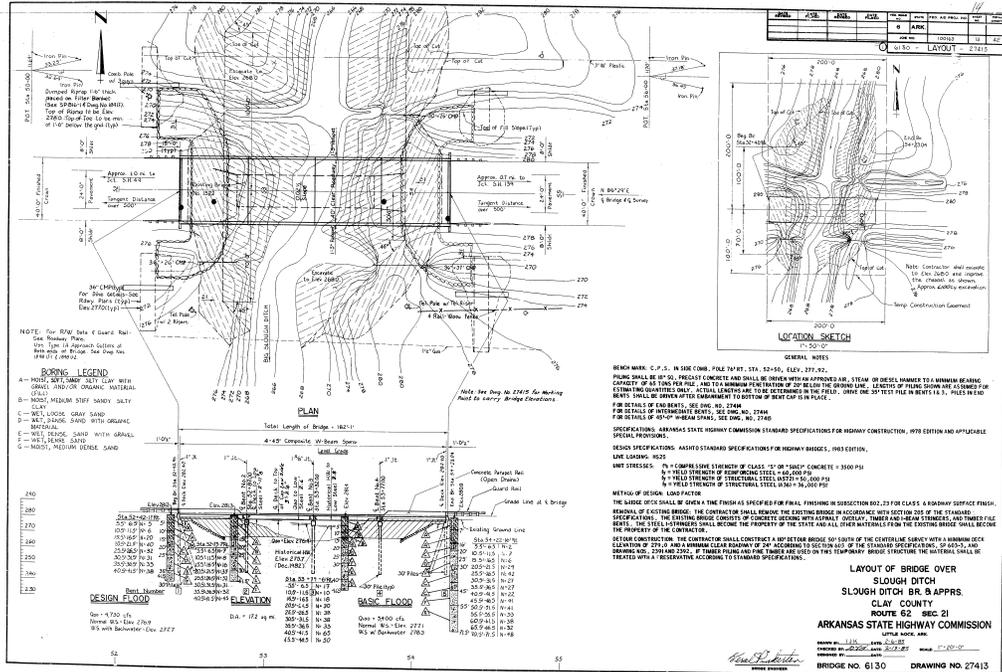


PHOTO 2

Description

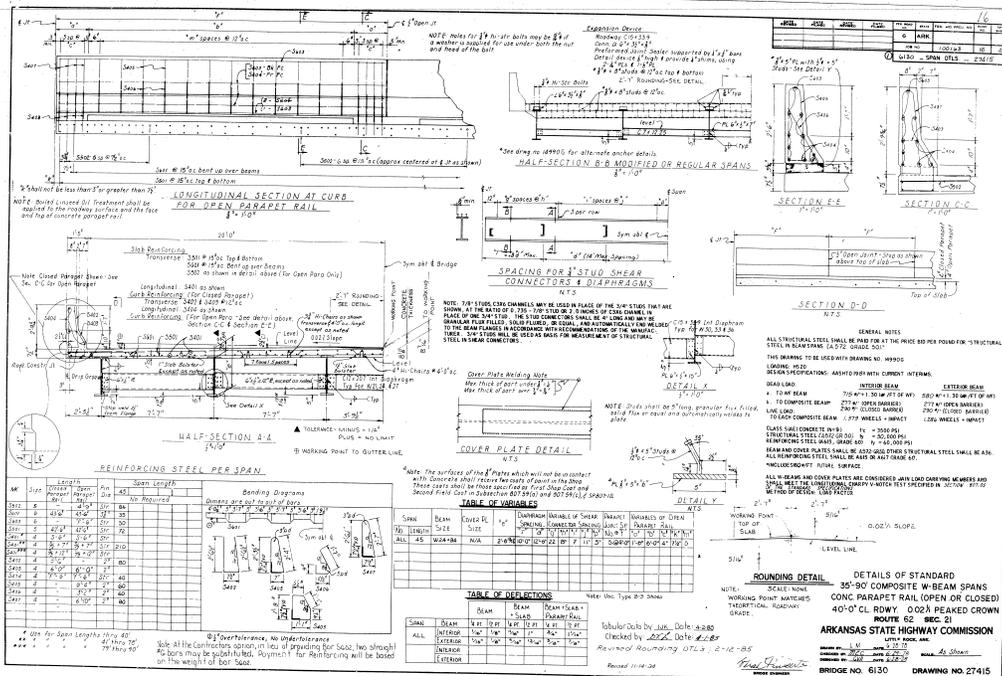


PHOTO 3

Description

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Sketches

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Bridge Inspection Report

Maintenance Needs

Date Reported: 03/23/2016

Priority: D - Routine

Work Code:

Deficiency Description:

Majority of Compression Seals are cracked and split with some areas that lost adhesion causing seal to drop down up to 2in. allowing leakage on to bearings and caps.

Bent 4 left lane compression seal has 2.0 ft. that is torn and pulled loose.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

Structure Number: 06130

Inspection Date:

Facility Carried: US 62-21- LM 1.00

Bridge Inspection Report

Maintenance Needs

Date Reported: 03/23/2016

Priority: C - Important

Work Code:

Deficiency Description:

Majority of Steel Girders has 2 ft. on ends rusted with some section loss to Web and Bottom Flange.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

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Maintenance Needs

Date Reported: 03/23/2016

Priority: D - Routine

Work Code:

Deficiency Description:

Majority of Steel Bearings is rusted with initial section loss and some Bearings have some pack rust, especially Bearings on Bent 5.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 03/23/2016

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Bottom of Deck, especially overhangs, has some cracking with 28sqft. of efflorescence.
Span 1 Bottom of Deck has 2sqft. of spalled area with rebar exposed and some delaminated areas.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 03/23/2016

Priority: D - Routine

Work Code:

Deficiency Description:

Spans 3&4 have some drift under bridge.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Maintenance Needs

Date Reported: 03/23/2016

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Bents 2&3 has up to 2ft. of local scour around piles, especial Bent 2 Piles 1,2 & 3, see 2016 photo of side view.

Work Description:

Date Repairs Completed:

Maintenance Comments:
