

Bridge Inspection Report

06021

US 67SB-18-LM 7.37

over

BLACK RIVER



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

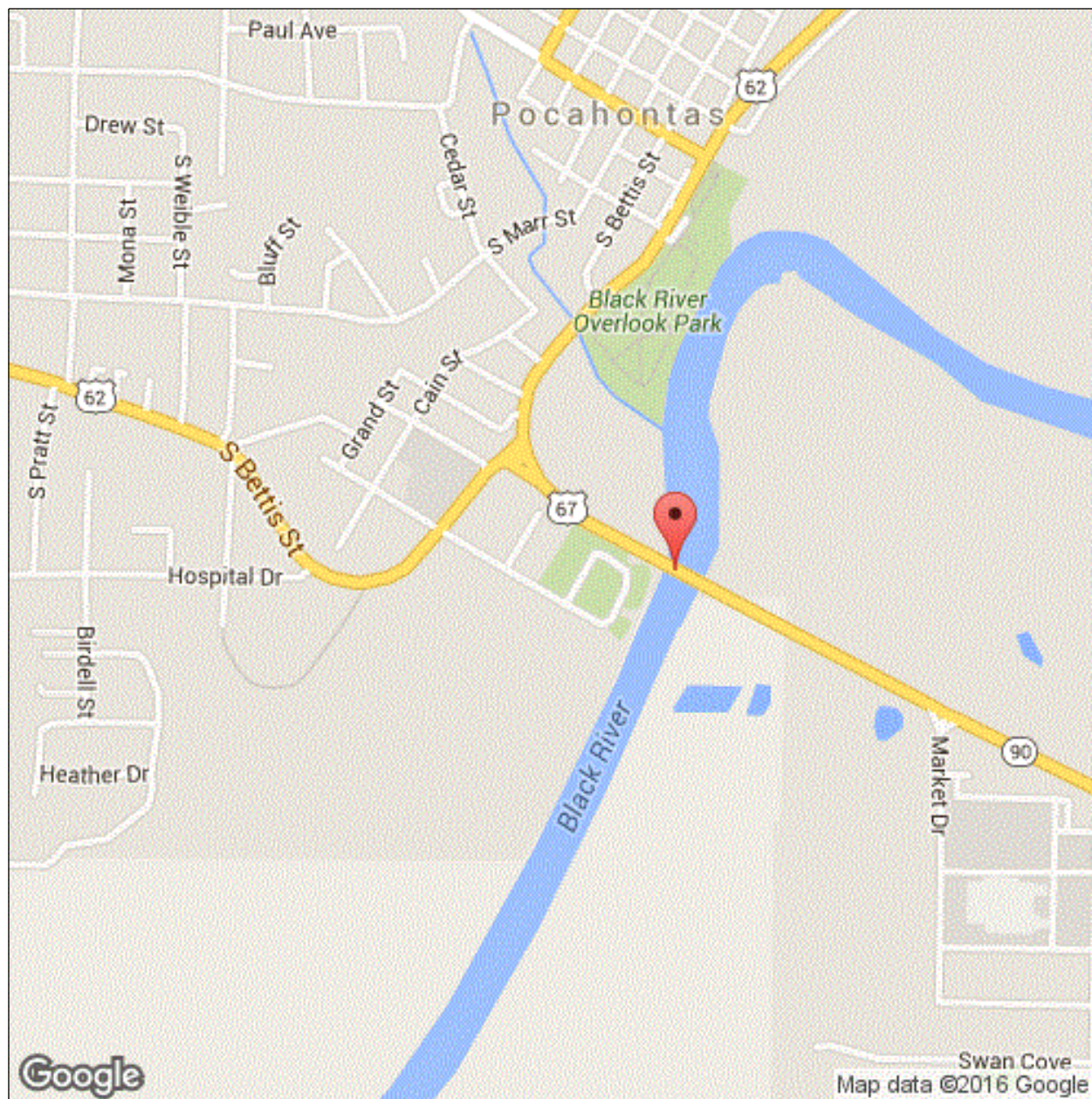
Structure Number: 06021

Inspection Date:

Facility Carried: US 67SB-18-LM 7.37

Bridge Inspection Report

Location Map



Latitude: 36.25290

Longitude: -90.96726

Inspector:

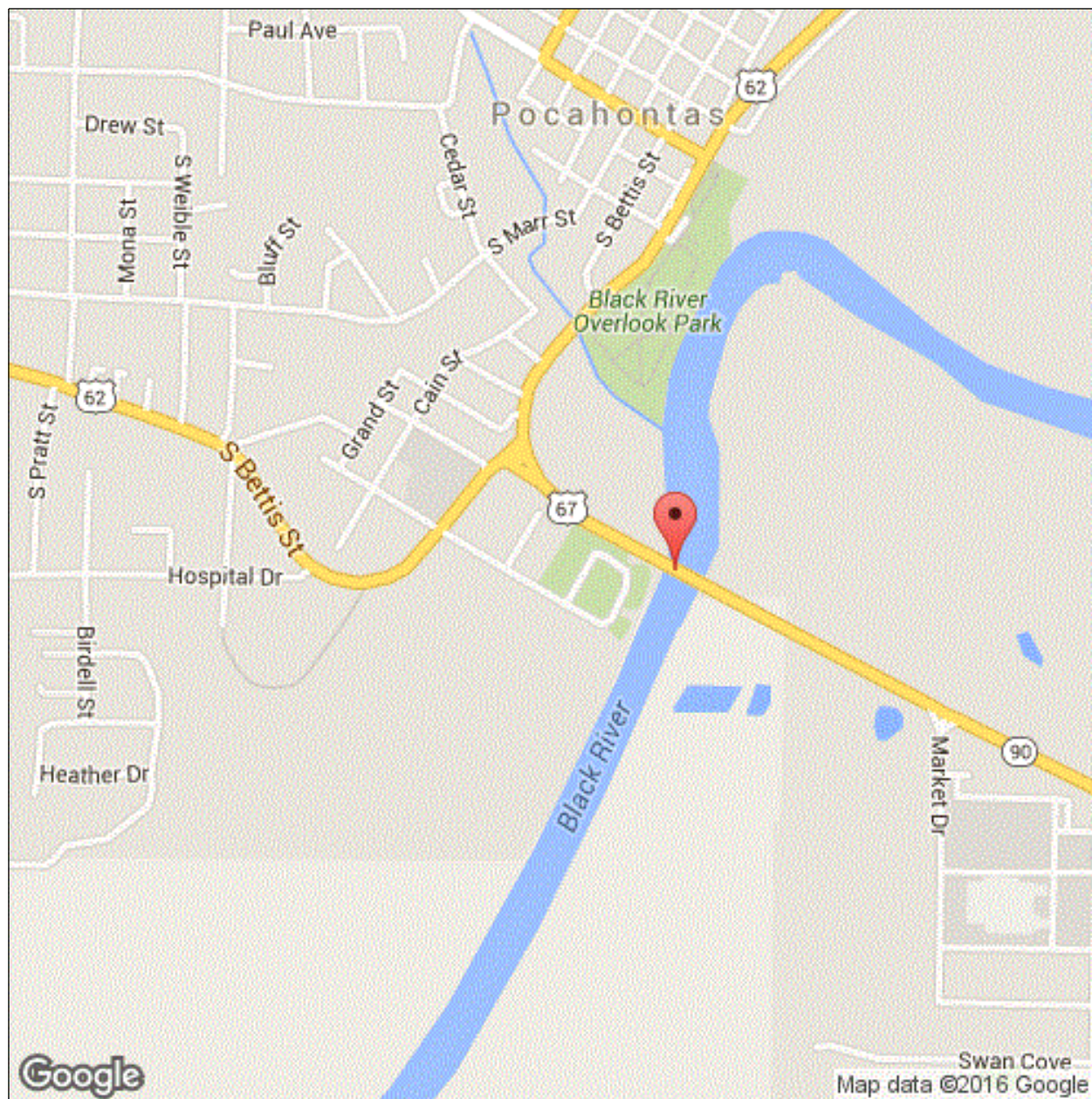
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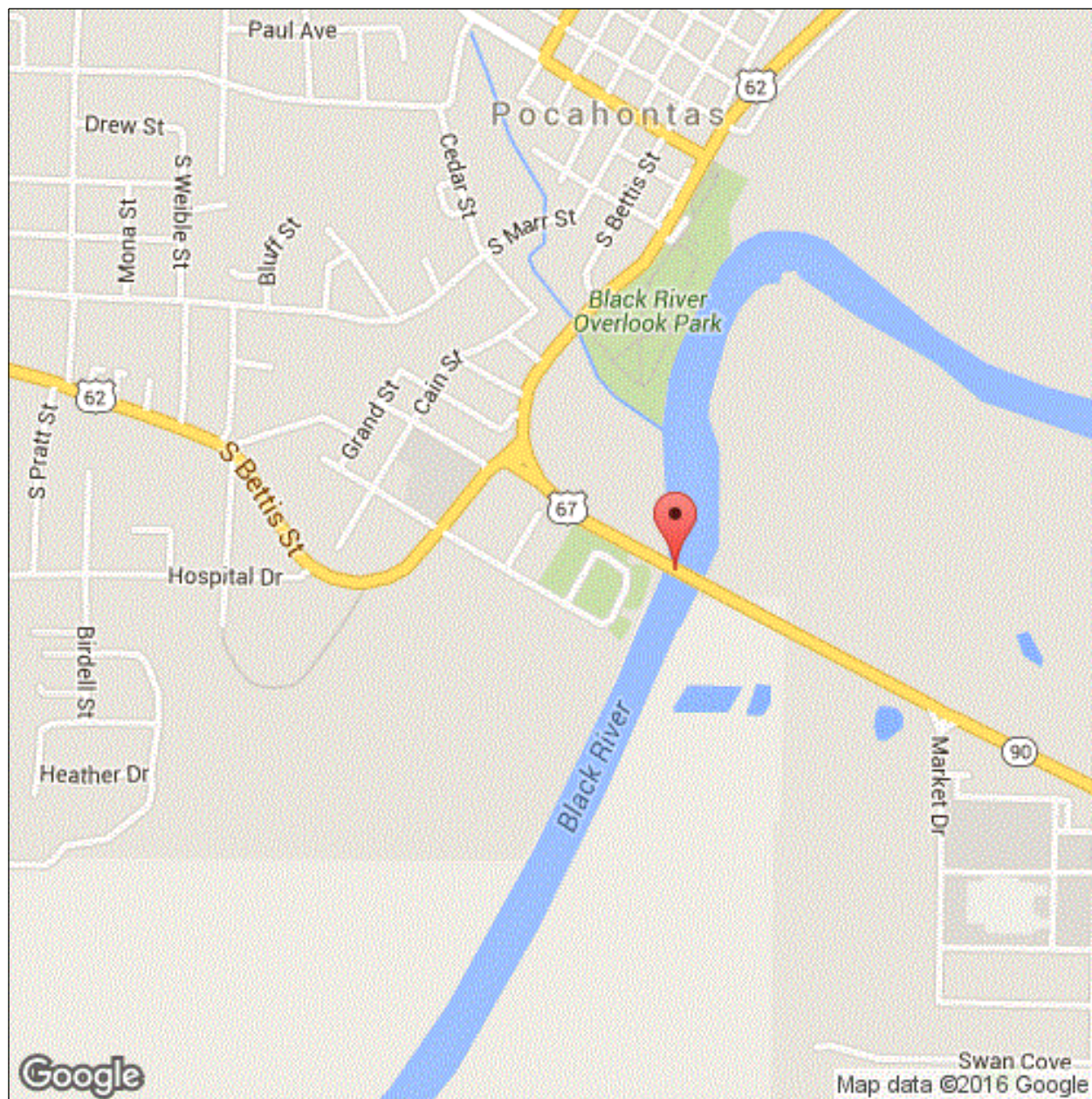
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Inspector:

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Structure Number: 06021

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Bridge Inspection Report

Executive Summary

Inspector:

Structure Number: 06021

Inspection Date:

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	07/02/2018
(8) STRUCTURE NUMBER	06021	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 67 3	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	10 (3) COUNTY CODE 121	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	54120	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	BLACK RIVER	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 67SB-18-LM 7.37		
(9) LOCATION	.25 MI S US 62		
(11) MILEPOINT 7.370	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000067180 (13B) SUBROUTE NUMBER 01		
(16) LATITUDE	36.25290 (17) LONGITUDE -90.96726		
(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:	4 - Steel continuous	(59) SUPERSTRUCTURE	7 (60) SUBSTRUCTURE 7
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:	1 - Concrete		
B) TYPE OF DESIGN/CONSTR:	01 - Slab		
(45) NUMBER OF SPANS IN MAIN	4 (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	1986 (106) YEAR RECONSTRUCTED	(31) DESIGN LOAD	5
(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	60
(29) AVERAGE DAILY TRAFFIC	27440 (19) BYPASS DETOUR LENGTH	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(66) INVENTORY RATING	36
(109) AVERAGE DAILY TRUCK TRAFFIC	5	(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	116 (49) STRUCTURE LENGTH (ft.)	(67) STRUCTURAL EVALUATION	7
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0 RIGHT 4.5	(68) DECK GEOMETRY	4
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	29.9	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	36.9	(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.)	34.1	(72) APPROACH ROADWAY ALIGNMENT	8
(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:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	35.1	36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36C) APPROACH GUARDRAIL:	1
(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	86.3 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	14
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	L
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	1
(114) FUTURE ADT	13500 (115) YEAR OF FUTURE ADT	(103) TEMP STRUCTURE	
	2032	(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	1
		(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: 06021

Inspection Date:

Facility Carried: US 67SB-18-LM 7.37

Bridge Inspection Report

Element Inspection

Rollup

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	15683	sq. ft.	0	15683	0	0
1130 - Cracking (RC and Other)		15683		0	15683	0	0
38 - Reinforced Concrete Slab	1- Ben.	30553	sq. ft.	23835	6639	79	0
1080 - Delamination/Spall/Patched Area		63		0	0	63	0
1090 - Exposed Rebar		16		0	0	16	0
1120 - Efflorescence/Rust Staining		15		0	15	0	0
1130 - Cracking (RC and Other)		6624		0	6624	0	0
107 - Steel Open Girder/Beam	1- Ben.	2125	ft.	1560	425	140	0
1000 - Corrosion		565		0	425	140	0
515 - Steel Protective Coating		28221	sq. ft.	0	28221	0	0
3410 - Chalking (Steel Protective Coatings)		21452		0	21452	0	0
3440 - Effectiveness (Steel Protective Coatings)		6769		0	6769	0	0
205 - Reinforced Concrete Column	1- Ben.	7	each	6	1	0	0
1090 - Exposed Rebar		1		0	1	0	0
215 - Reinforced Concrete Abutment	1- Ben.	78	ft.	76	2	0	0
1130 - Cracking (RC and Other)		2		0	2	0	0
227 - Reinforced Concrete Pile	1- Ben.	126	each	126	0	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	822	ft.	610	10	202	0
1080 - Delamination/Spall/Patched Area		147		0	0	147	0
1090 - Exposed Rebar		19		0	0	19	0
1130 - Cracking (RC and Other)		46		0	10	36	0
310 - Elastomeric Bearing	1- Ben.	25	each	25	0	0	0
330 - Metal Bridge Railing	1- Ben.	1253	ft.	1253	0	0	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	2506	ft.	2291	215	0	0
1090 - Exposed Rebar		50		0	50	0	0
1130 - Cracking (RC and Other)		165		0	165	0	0

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Bridge Inspection Report

Element Inspection

Main

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	15683	sq. ft.	0	15683	0	0
1130 - Cracking (RC and Other)		15683			15683		
107 - Steel Open Girder/Beam	1- Ben.	2125	ft.	1560	425	140	0
1000 - Corrosion		565			425	140	
515 - Steel Protective Coating		28221	sq. ft.	0	28221	0	0
3410 - Chalking (Steel Protective Coatings)		21452			21452		
3440 - Effectiveness (Steel Protective Coatings)		6769			6769		
205 - Reinforced Concrete Column	1- Ben.	7	each	6	1	0	0
1090 - Exposed Rebar		1			1		
234 - Reinforced Concrete Pier Cap	1- Ben.	129	ft.	119	10	0	0
1130 - Cracking (RC and Other)		10			10		
310 - Elastomeric Bearing	1- Ben.	25	each	25			
330 - Metal Bridge Railing	1- Ben.	425	ft.	425			
331 - Reinforced Concrete Bridge Railing	1- Ben.	850	ft.	765	85	0	0
1130 - Cracking (RC and Other)		85			85		

Inspector:

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Bridge Inspection Report

Element Inspection

Approach

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
38 - Reinforced Concrete Slab	1- Ben.	30553	sq. ft.	23835	6639	79	0
1080 - Delamination/Spall/Patched Area		63				63	
1090 - Exposed Rebar		16				16	
1120 - Efflorescence/Rust Staining		15			15		
1130 - Cracking (RC and Other)		6624			6624		
215 - Reinforced Concrete Abutment	1- Ben.	78	ft.	76	2	0	0
1130 - Cracking (RC and Other)		2			2		
227 - Reinforced Concrete Pile	1- Ben.	126	each	126			
234 - Reinforced Concrete Pier Cap	1- Ben.	693	ft.	491	0	202	0
1080 - Delamination/Spall/Patched Area		147				147	
1090 - Exposed Rebar		19				19	
1130 - Cracking (RC and Other)		36				36	
330 - Metal Bridge Railing	1- Ben.	828	ft.	828			
331 - Reinforced Concrete Bridge Railing	1- Ben.	1656	ft.	1526	130	0	0
1090 - Exposed Rebar		50			50		
1130 - Cracking (RC and Other)		80			80		

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Bridge Inspection Report

Pictures

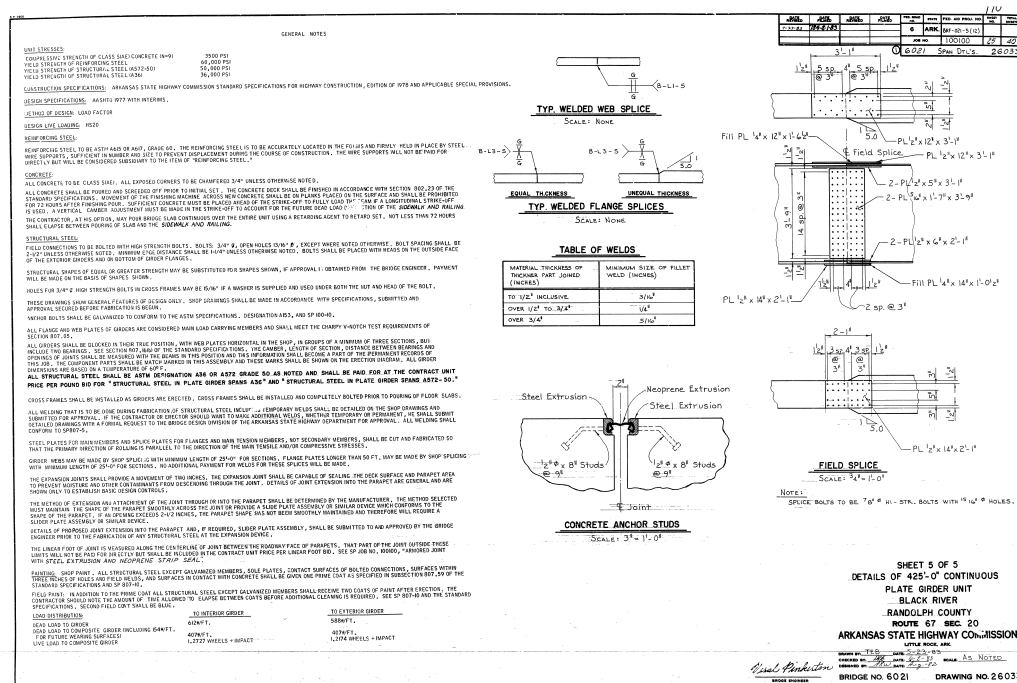


PHOTO 1

Description	Cross Section Plate Girder Sheet 5
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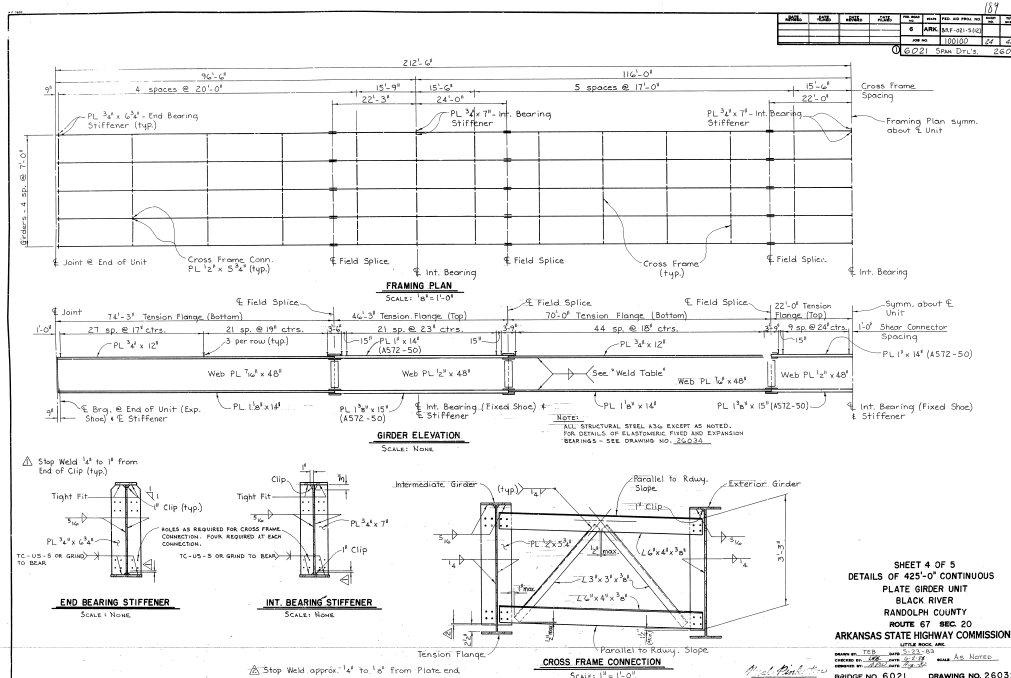


PHOTO 2

Description Cross Section Plate Girder Sheet 4

Inspector:

Inspection Date:

Structure Number: 06021

Facility Carried: US 67SB-18-LM 7.37

Bridge Inspection Report

Pictures

PHOTO 2

Description

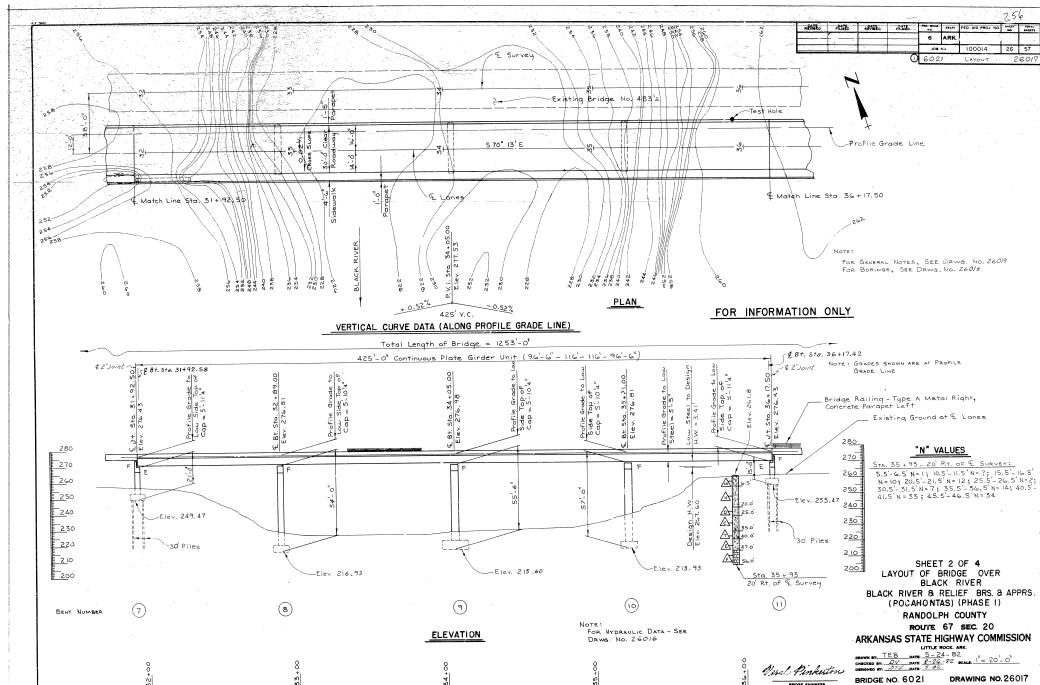


PHOTO 3

Description Layout View Sheet 2

Inspection Date:

Facility Carried: US 67SB-18-LM 7.37

Bridge Inspection Report

Pictures

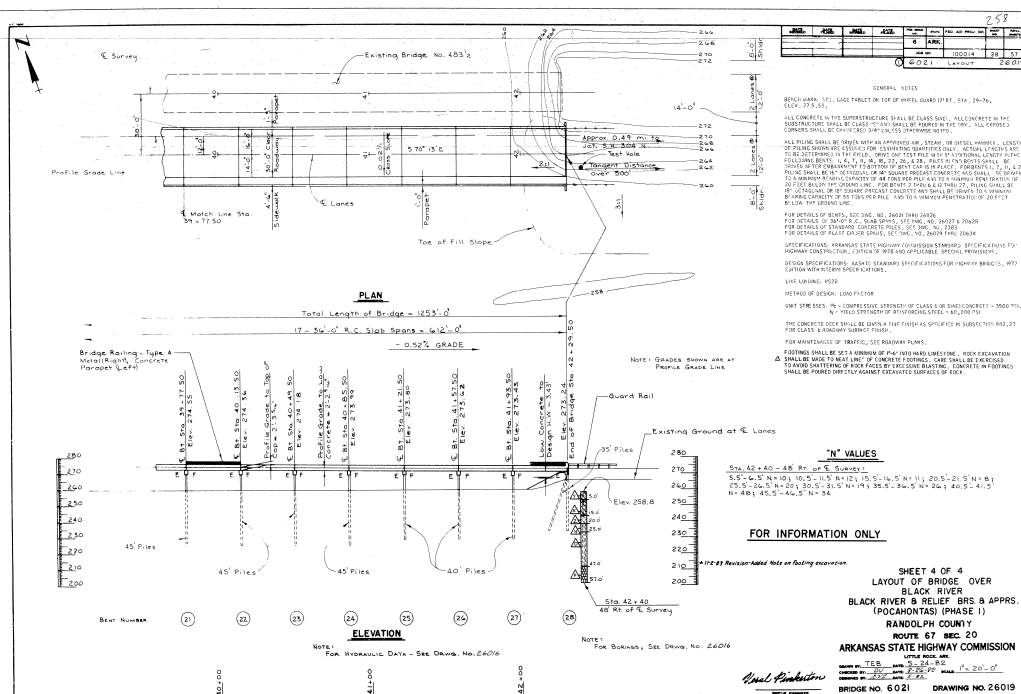


PHOTO 4

Description Layout View Sheet 4

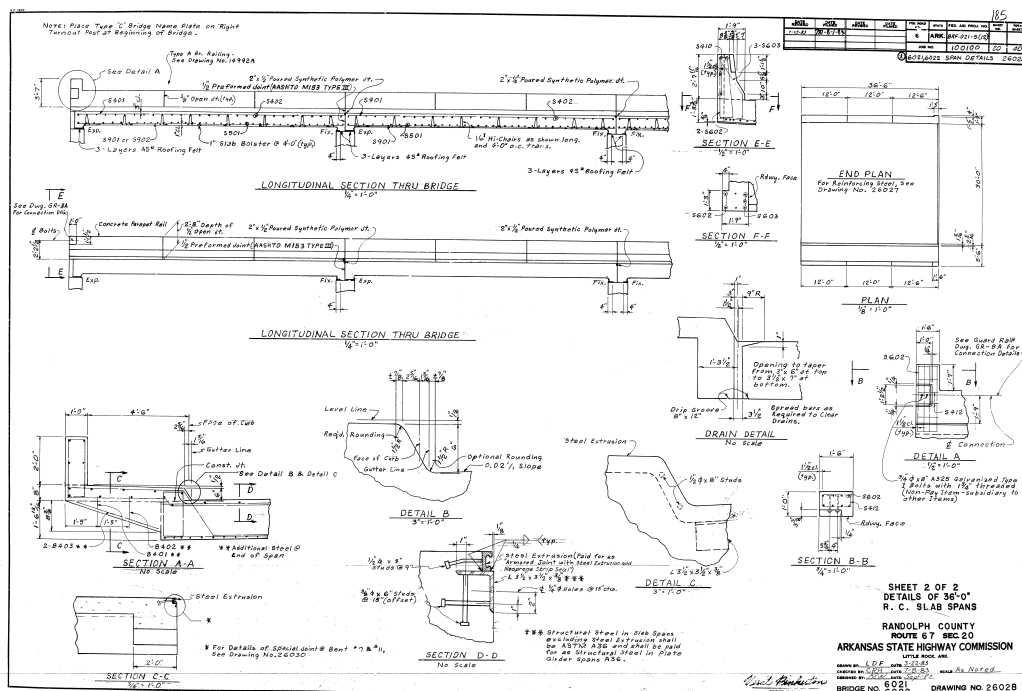


PHOTO 5

Description Cross Section 36' Span Sheet 2

Inspector:

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Bridge Inspection Report

Pictures

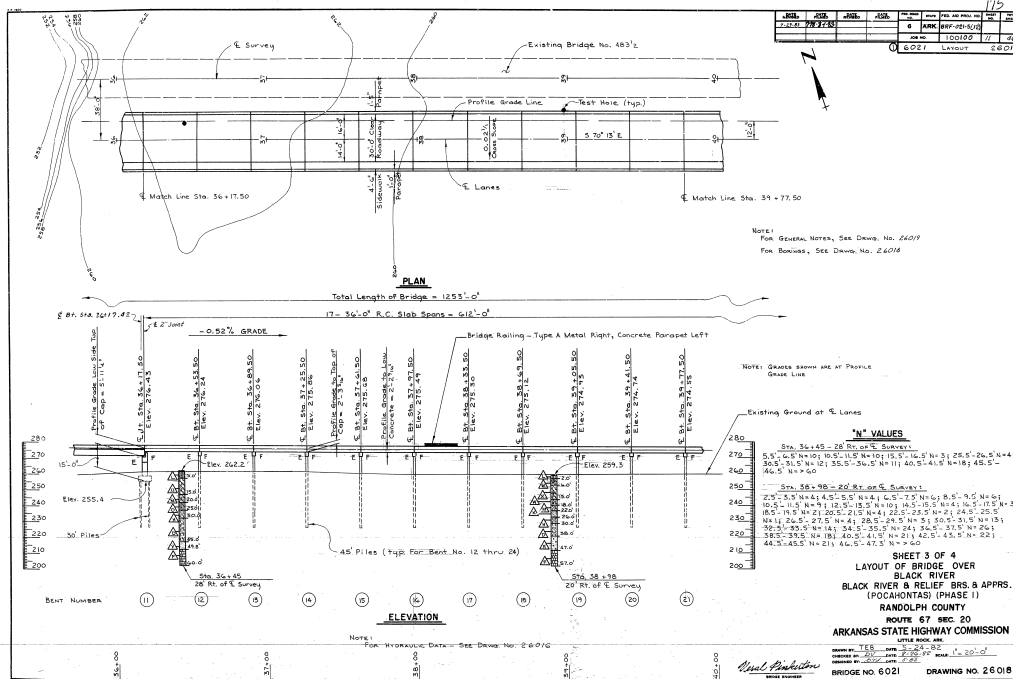


PHOTO 6

Description Layout View Sheet 3

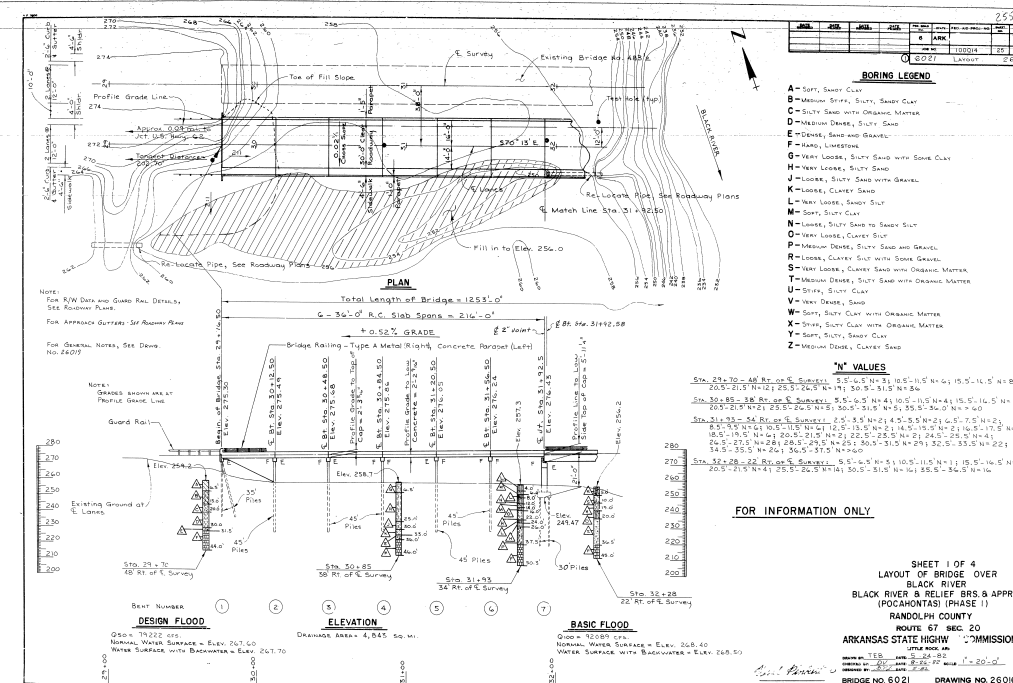


PHOTO 7

Description Layout View Sheet 1

Inspector:
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Bridge Inspection Report

Pictures

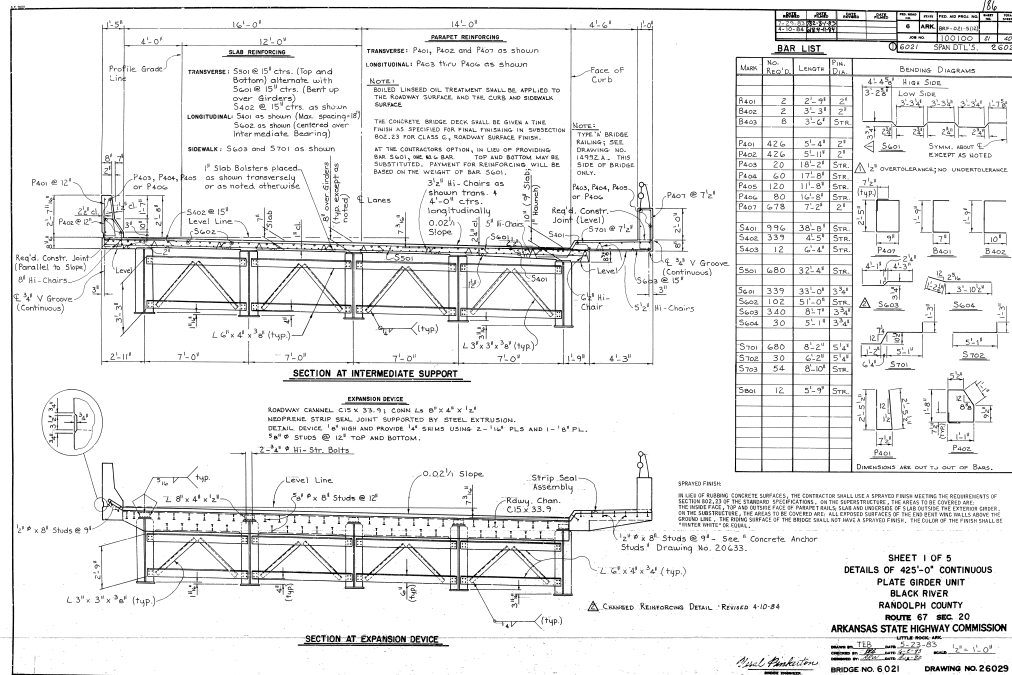


PHOTO 8

Description Cross Section Plate Girder Sheet 1

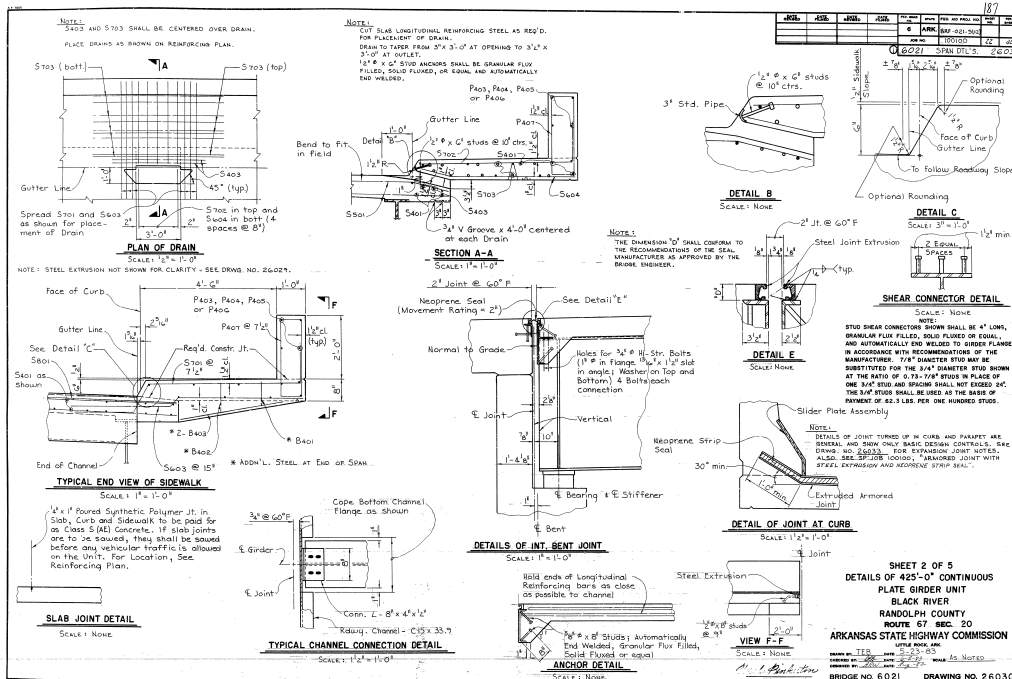


PHOTO 9

Description Cross Section Plate Girder Sheet 2

Inspection Date:

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Bridge Inspection Report

Pictures

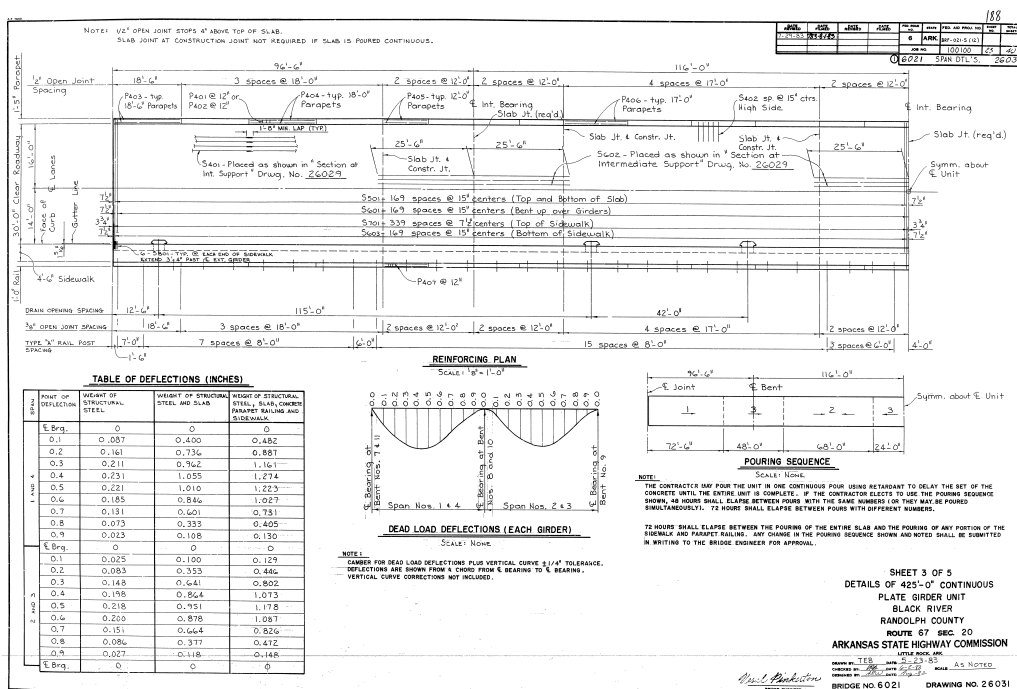


PHOTO 10

Description	Cross Section Plate Girder Sheet 3
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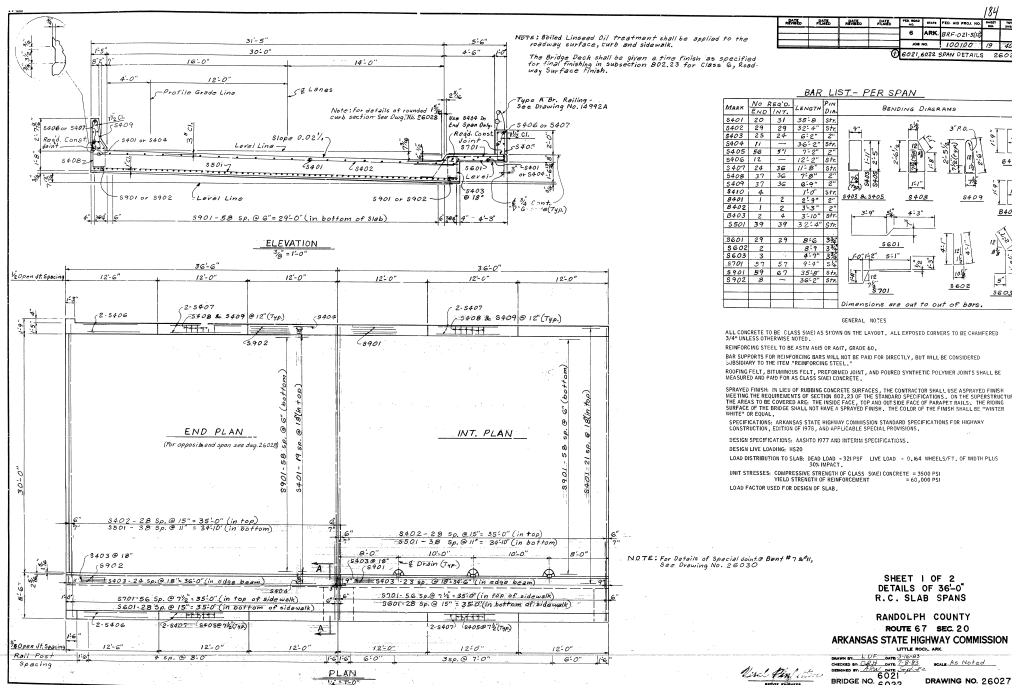


PHOTO 11

Description	Cross Section 36' Span Sheet 1
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Inspector:

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Bridge Inspection Report

Sketches

Inspector:

Structure Number: 06021

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 8/9/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Bearings are rusted with pitting.

Bent 20 bearing 4 has one anchor bolt nut missing.

Bent 22 bearing 5 has one loose anchor bolt.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

Structure Number: 06021

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 8/9/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Majority of caps at slab spans have rust stained cracks, delaminated areas and/or spalls with rebar exposed. See 2016 photos.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description

Inspector:

Structure Number: 06021

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 8/9/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Bridge ends
Roadway settlement at both bridge ends up to 2 inches.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 8/9/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Soffit at spans 1 - 17 and 22 - 27 has cracked and delaminated areas and/or spalls with rebar exposed around drain openings.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

Structure Number: 06021

Inspection Date:

Facility Carried: US 67SB-18-LM 7.37

Bridge Inspection Report

Maintenance Needs

Date Reported: 8/9/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Poured joint seals are deteriorated, separated from slabs and leak with some sections missing at bents 1 – 17, and 23 – 28.

Compression seals are torn and split at bents 18 – 22.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor

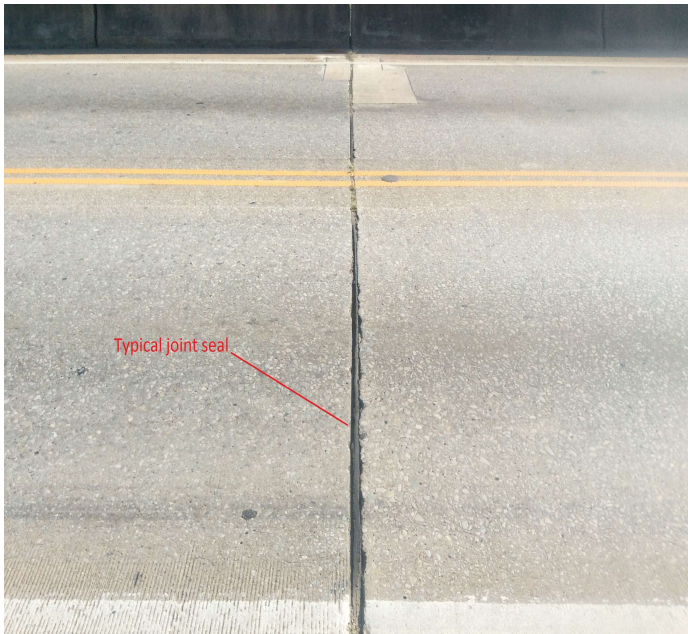


PHOTO 1 Description

Inspector:

Structure Number: 06021

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Bridge Inspection Report

Maintenance Needs

Date Reported: 7/24/2014 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Deck has several spalls and concrete and asphalt patches along joints at several spans: 1, 2, 3, 5, 6, 9, 11, 12, 13, 14, 22, 24, 25 & 26. (patches are in good condition with insignificant cracks) Repairs made as part of job # 100759, repairs began 06-21-2016.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description