

Bridge Inspection Report

06412

US 49, SEC 4, SW DR

over

I-555-SEC 03



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

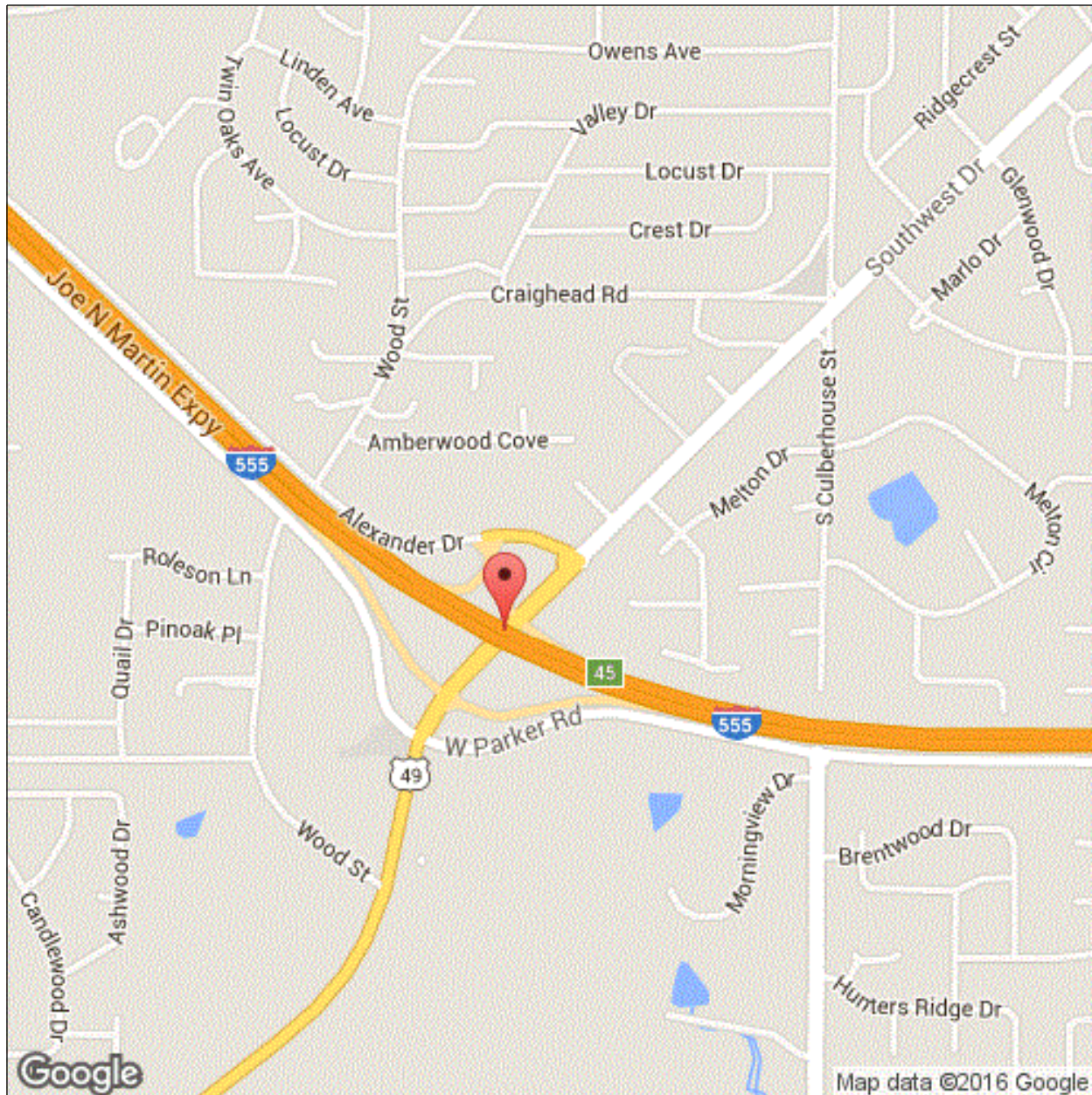
Structure Number: 06412

Inspection Date:

Facility Carried: US 49, SEC 4, SW DR

Bridge Inspection Report

Location Map



Latitude: 35.80867

Longitude: -90.72049

Inspector:

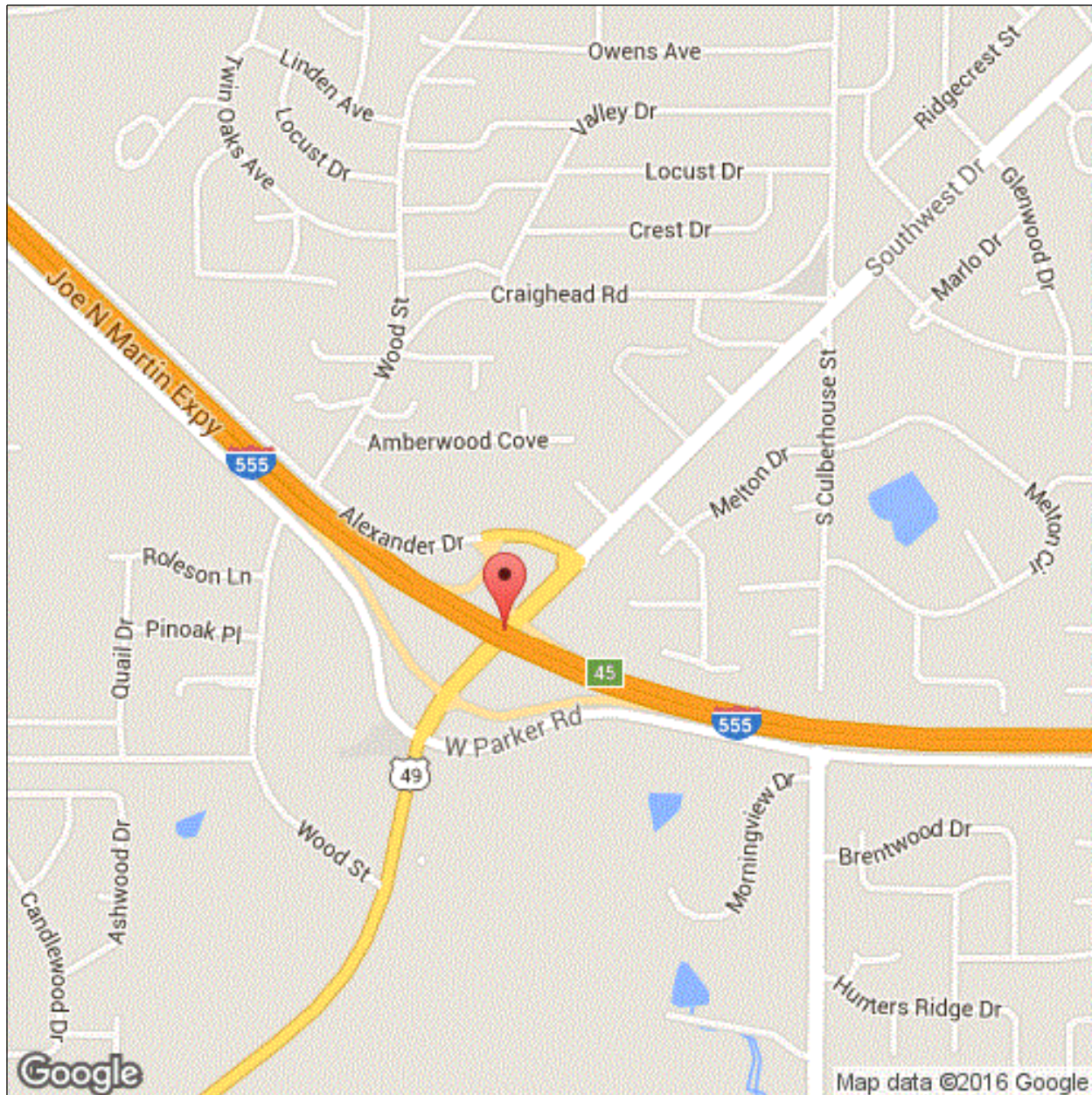
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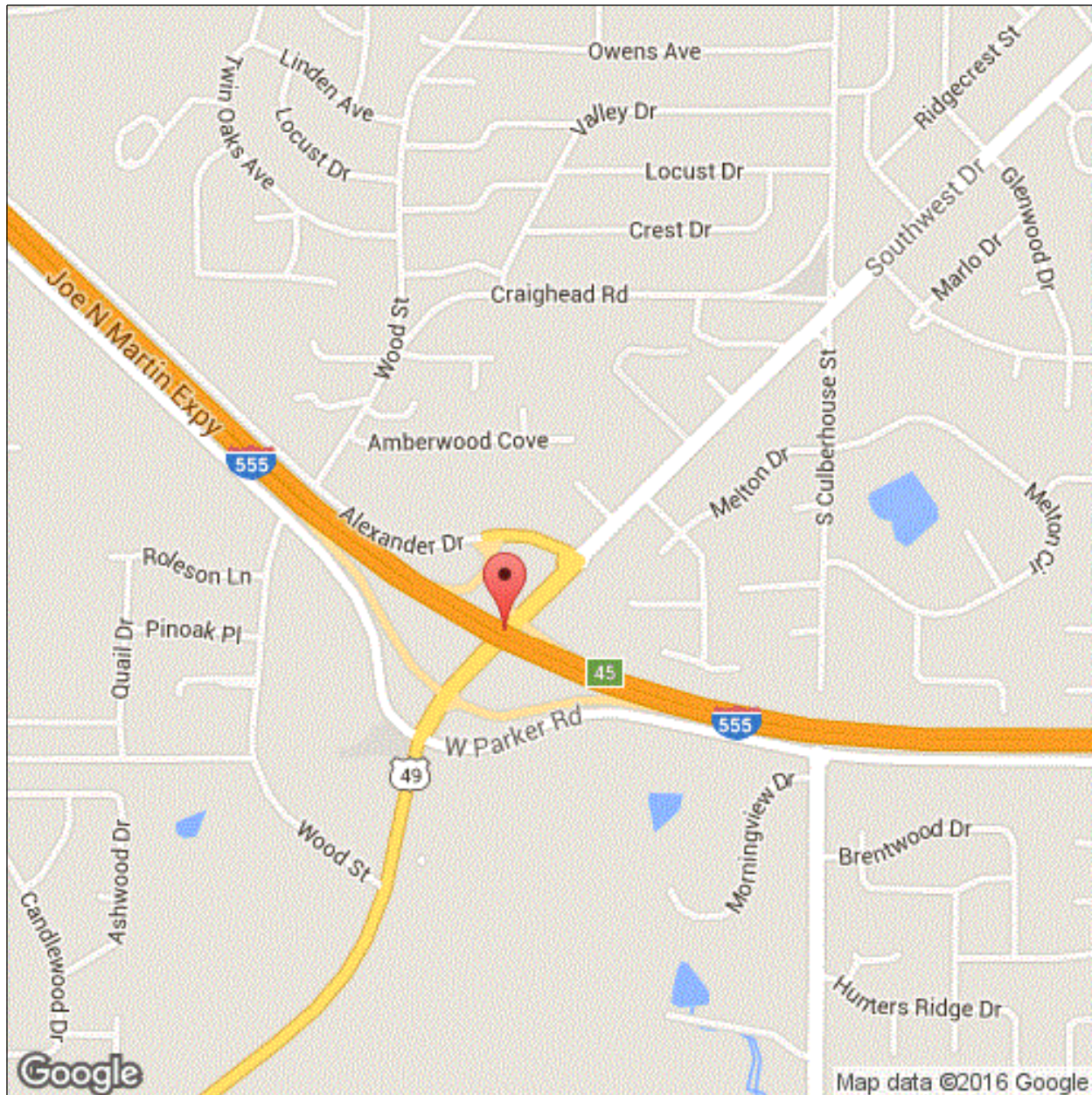
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Bridge Inspection Report

Executive Summary

Inspection late due to lack of access to snoopers.

Inspector:

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	06/13/2018
(8) STRUCTURE NUMBER	06412	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 49 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	10 (3) COUNTY CODE 031	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	34720	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	I-555-SEC 03	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 49, SEC 4, SW DR		
(9) LOCATION	Jct. US 49 & I-555		
(11) MILEPOINT 0.080	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	000000001 (13B) SUBROUTE NUMBER 01		
(16) LATITUDE 35.80867	(17) LONGITUDE -90.72049		
(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
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(60) SUBSTRUCTURE	7
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	N
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder			
(45) NUMBER OF SPANS IN MAIN 3	(46) NUMBER OF APPROACH 2		
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 1		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1993	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	5
(42) TYPE OF SERVICE ON 1 UNDER 1		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 04 UNDER 05		(64) OPERATING RATING	60
(29) AVERAGE DAILY TRAFFIC 22000	(19) BYPASS DETOUR LENGTH 1	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	36
(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.) 87.0	(49) STRUCTURE LENGTH (ft.) 347.0	(67) STRUCTURAL EVALUATION	7
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	9
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 76.1		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	6
(52) DECK WIDTH, OUT-TO-OUT (ft.) 78.8		(71) WATERWAY ADEQUACY	N
(32) APPROACH ROADWAY WIDTH (ft.) 76.1		(72) APPROACH ROADWAY ALIGNMENT	9
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 19	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99	36A) BRIDGE RAILINGS:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.) 77.1		36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.) H 17.57		36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) H 30.3		(113) SCOUR CRITICAL BRIDGES	N
(56) MIN LATERAL UNDER CLEARANCE (ft.) 17.3		SUFFICIENCY RATING 97.9	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	01
(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 24156	(115) YEAR OF FUTURE ADT 2028	(103) TEMP STRUCTURE	
		(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	N
		(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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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.	27344	sq. ft.	25960	1384	0	0
1120 - Efflorescence/Rust Staining		108		0	108	0	0
1130 - Cracking (RC and Other)		1276		0	1276	0	0
107 - Steel Open Girder/Beam	1- Ben.	3440	ft.	3277	160	3	0
1000 - Corrosion		123		0	120	3	0
515 - Steel Protective Coating		38064	sq. ft.	35543	0	2521	0
3440 - Effectiveness (Steel Protective Coatings)		2521		0	0	2521	0
205 - Reinforced Concrete Column	1- Ben.	12	each	12	0	0	0
215 - Reinforced Concrete Abutment	1- Ben.	200	ft.	196	4	0	0
1130 - Cracking (RC and Other)		4		0	4	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	321	ft.	310	11	0	0
1130 - Cracking (RC and Other)		11		0	11	0	0
302 - Compression Joint Seal	1- Ben.	325	ft.	249	0	76	0
2320 - Seal Adhesion		76		0	0	76	0
310 - Elastomeric Bearing	1- Ben.	80	each	80	0	0	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	694	ft.	661	33	0	0
1130 - Cracking (RC and Other)		33		0	33	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.	19235	sq. ft.	18728	507	0	0
1120 - Efflorescence/Rust Staining		82			82		
1130 - Cracking (RC and Other)		425			425		
107 - Steel Open Girder/Beam	1- Ben.	2440	ft.	2317	120	3	0
1000 - Corrosion		123			120	3	
515 - Steel Protective Coating		28043	sq. ft.	26972	0	1071	0
3440 - Effectiveness (Steel Protective Coatings)		1071				1071	
205 - Reinforced Concrete Column	1- Ben.	12	each	12			
234 - Reinforced Concrete Pier Cap	1- Ben.	321	ft.	310	11	0	0
1130 - Cracking (RC and Other)		11			11		
310 - Elastomeric Bearing	1- Ben.	40	each	40			
331 - Reinforced Concrete Bridge Railing	1- Ben.	488	ft.	468	20	0	0
1130 - Cracking (RC and Other)		20			20		

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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
12 - Reinforced Concrete Deck	1- Ben.	8109	sq. ft.	7232	877	0	0
1120 - Efflorescence/Rust Staining		26			26		
1130 - Cracking (RC and Other)		851			851		
107 - Steel Open Girder/Beam	1- Ben.	1000	ft.	960	40		
515 - Steel Protective Coating		10021	sq. ft.	8571	0	1450	0
3440 - Effectiveness (Steel Protective Coatings)		1450				1450	
215 - Reinforced Concrete Abutment	1- Ben.	200	ft.	196	4	0	0
1130 - Cracking (RC and Other)		4			4		
302 - Compression Joint Seal	1- Ben.	325	ft.	249	0	76	0
2320 - Seal Adhesion		76				76	
310 - Elastomeric Bearing	1- Ben.	40	each	40			
331 - Reinforced Concrete Bridge Railing	1- Ben.	206	ft.	193	13	0	0
1130 - Cracking (RC and Other)		13			13		

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Pictures

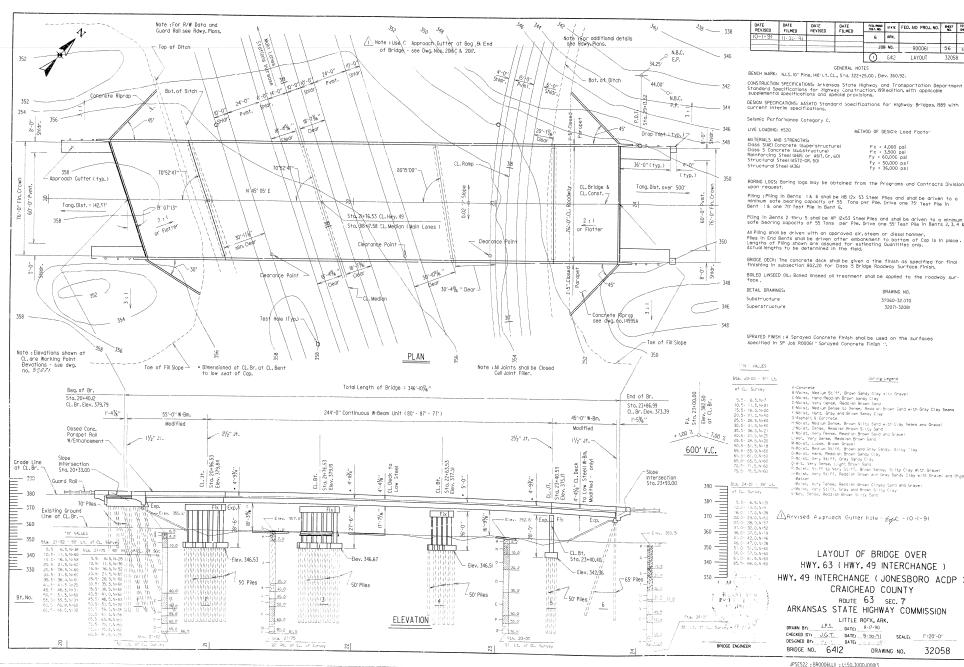


PHOTO 1

Description

PHOTO 2

Description

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Bridge Inspection Report

Pictures

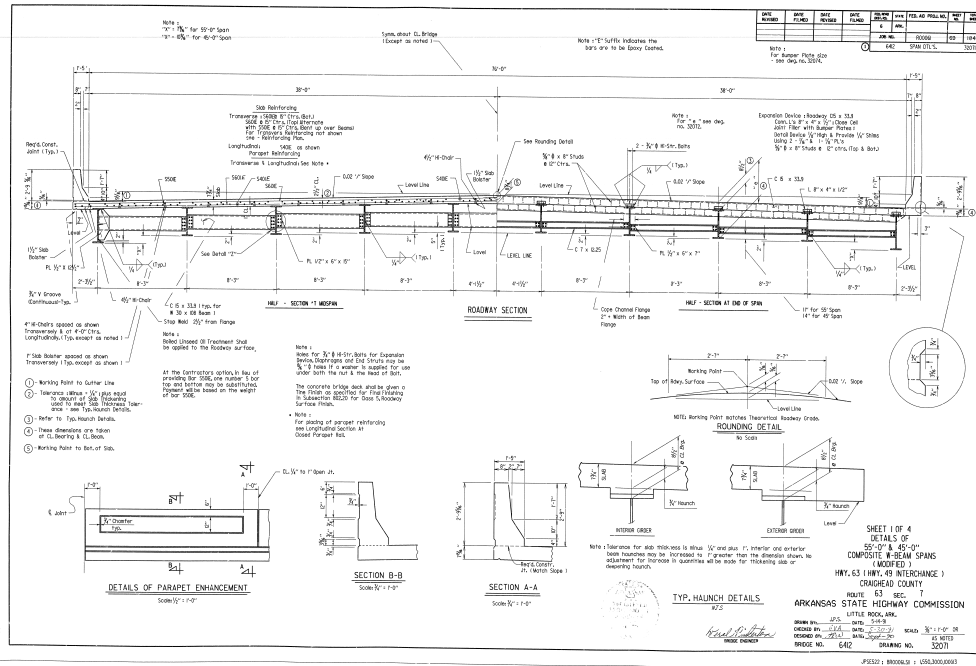


PHOTO 2

Description

Inspector:

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Facility Carried: US 49, SEC 4, SW DR

Bridge Inspection Report

Sketches

Inspector:

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Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 4/19/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Concrete Deck

Concrete deck has a few minor unsealed cracks. Sp 3 sawed joint location is not sealed.

Leakage thru sawed joints has resulted in rust and section loss in stay in place forms Spans 2,3,& 4, See photo 2018.

Stay in place forms are rusted with some section loss due to leakage thru deck at sawed joint locations on span 3 and 4.

Section loss to top flange of span 3 girder 6 at this location. See 2016 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description

Inspector:

Inspection Date:

Structure Number: 06412

Facility Carried: US 49, SEC 4, SW DR

Bridge Inspection Report

Maintenance Needs

Stage: Monitor



PHOTO 3 Description

Inspector:

Structure Number: 06412

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 4/19/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Compression seals
Compression seal at Bt 2,4 and 5 are beginning to lose adhesion.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 4/19/2012 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Steel girder splice plates
Majority of splice plates and bolts have paint flaking and
rust forming on bolts.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 06/14/2018

Priority: C - Important

Work Code:

Deficiency Description:

Sealable cracks top of deck. See photo 2018

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

Inspector:

Structure Number: 06412

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Bridge Inspection Report

Maintenance Needs

Date Reported: 06/15/2018

Priority: D - Routine

Work Code:

Deficiency Description:

Concrete caps Bents 2,3,4,& 5 have some moderate width vertical cracking 1ft long. See photo 2018

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description