

# Bridge Inspection Report

**06224**  
**US 63-14 LM 8.64**  
**over**  
**Hudgin Creek**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

## TABLE OF CONTENTS

	PAGE NUMBER
LOCATION MAP	3
NATIONAL BRIDGE INVENTORY	6
ELEMENTS	7
PICTURES	9
SKETCHES	10

Inspector:

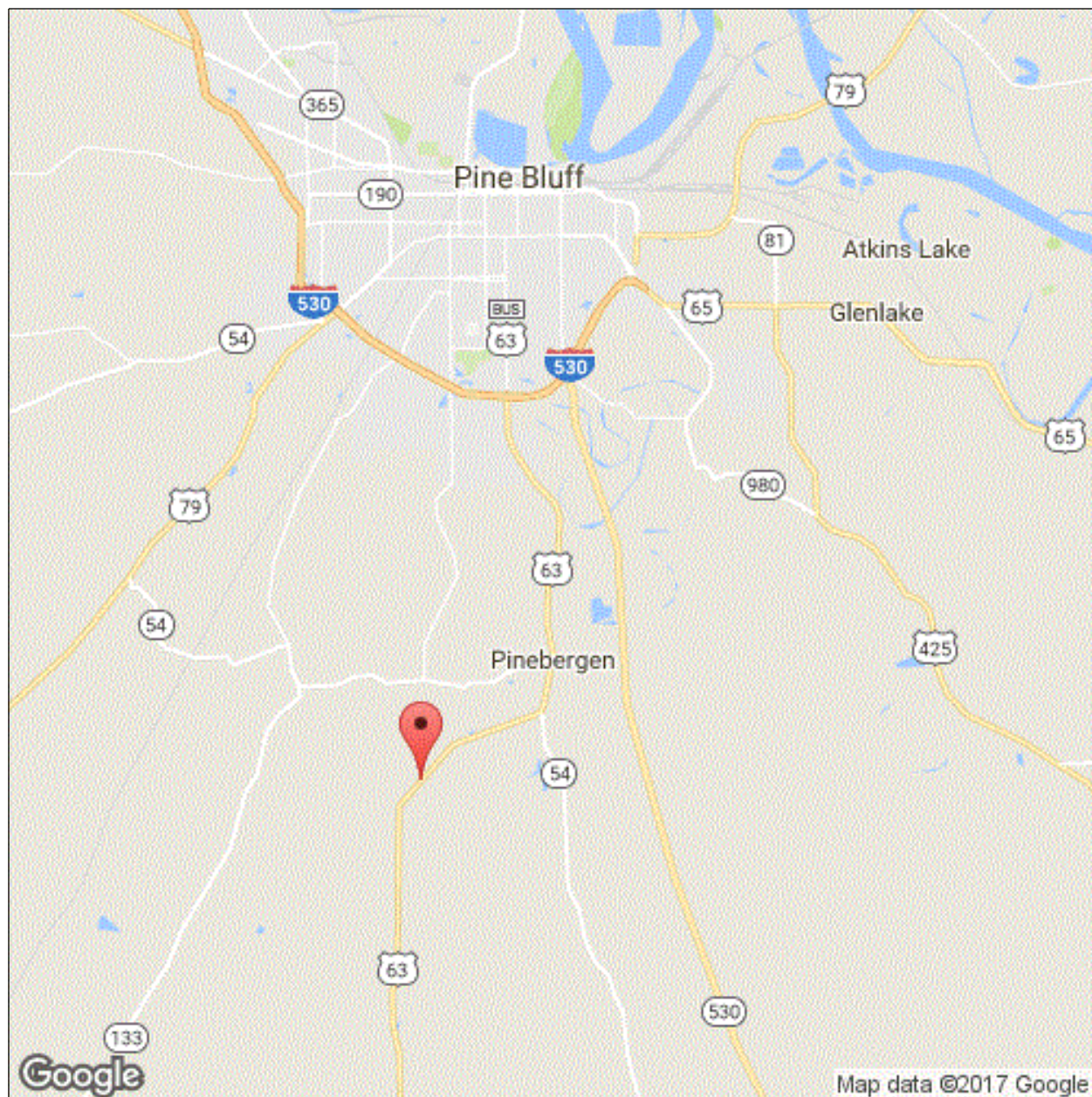
Structure Number: 06224

Inspection Date:

Facility Carried: US 63-14 LM 8.64

### Bridge Inspection Report

### Location Map



Latitude: 34.07119120564453

Longitude: -92.03383222421007

Inspector:

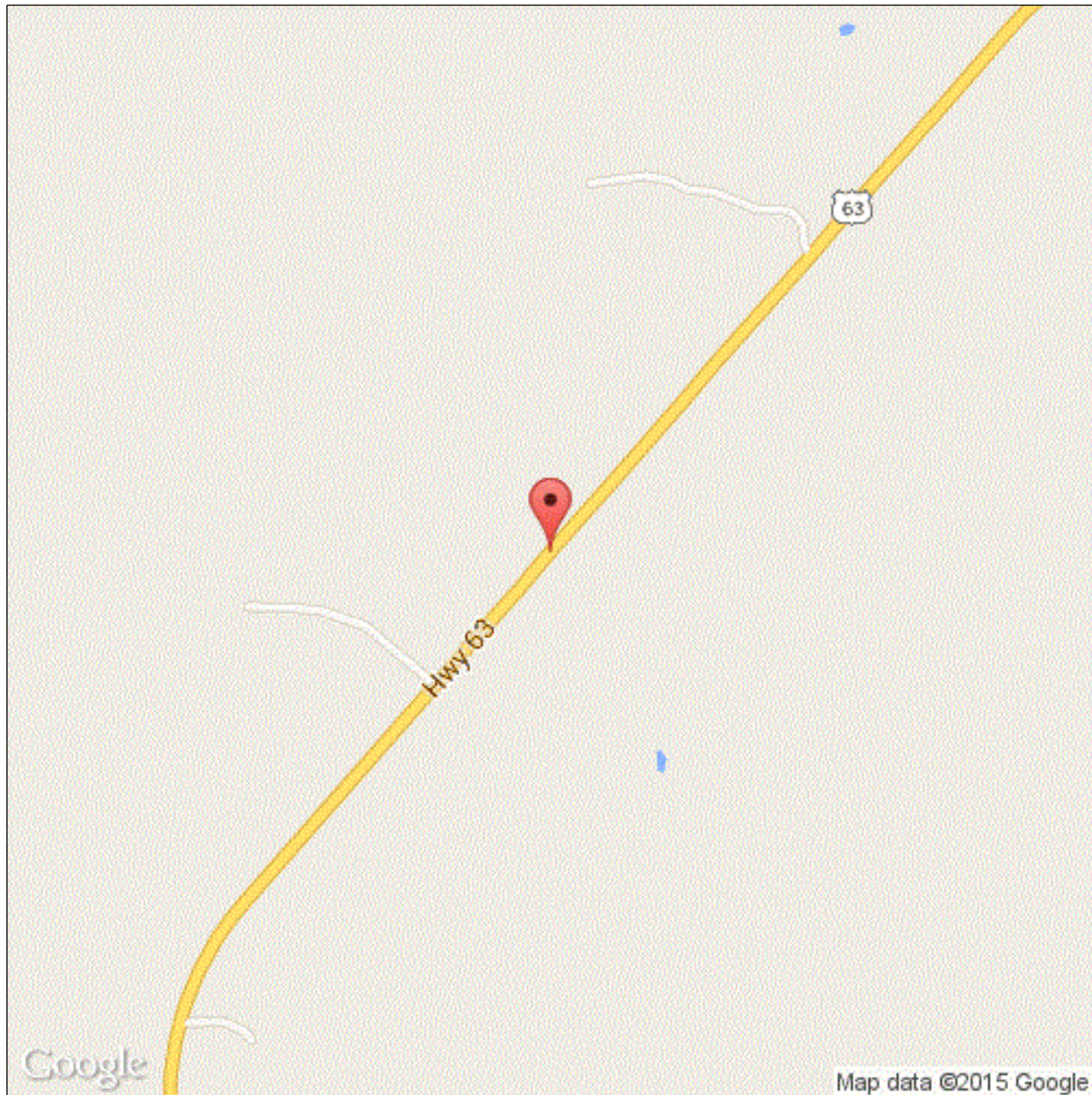
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## Bridge Inspection Report

### Location Map



Latitude: 34.07119120564453

Longitude: -92.03383222421007

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## **Bridge Inspection Report**

### **Executive Summary**

Bridge is logged from northeast to southwest.

Inspector:

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## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	09/23/2019
(8) STRUCTURE NUMBER	06224	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 63 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	02 (3) COUNTY CODE 069	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Hudgin Creek	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 63-14 LM 8.64		
(9) LOCATION	0.67 Mi N Cleveland Co.		
(11) MILEPOINT 8.640	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000063140 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.07119120564453	(17) LONGITUDE -92.03383222421007		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	8
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(59) SUPERSTRUCTURE	6 (60) SUBSTRUCTURE 8
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(61) CHANNEL & CHANNEL PROTECTION	8 (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 0		
(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 1989	(106) YEAR RECONSTRUCTED 0000	(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	60.0
(29) AVERAGE DAILY TRAFFIC 4100	(19) BYPASS DETOUR LENGTH 20	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	36.0
(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.) 35	(49) STRUCTURE LENGTH (ft.) 107	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	6
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 40.0		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 42.8		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 40.0		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 0	(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.) 41.3		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:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) N 99.9		(113) SCOUR CRITICAL BRIDGES	5
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		SUFFICIENCY RATING	92.8 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	06
(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 5827	(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	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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## Bridge Inspection Report

## Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>12 - Reinforced Concrete Deck</b>	1- Ben.	4579	sq. ft.	4365	214	0	0
	Deck: 42.8' wide x 107' long. A few scattered, hairline- to minor-sized longitudinal cracks.						
1130 - Cracking (RC and Other)		214		0	214	0	0
<b>107 - Steel Open Girder/Beam</b>	1- Ben.	630	ft.	486	48	96	0
	Girders: 6 per span / 105' total span. Coating: (W 24 x 68) 6.06 square feet per linear feet of girder. Span 1-3 Girders 2-5: Pitting and flaking with some minor section loss along top and bottom of bottom flange and bottom of web - 4' back and ahead of each bent. (96' total) Some very minor rusting with little flaking and pitting at ends of girders in various locations (4' on each end of each girder at bent = 48' total). Span 2 girder 1 at bent 3 haunch area right side has heavy corrosion . Common on all haunch areas this span.						
1000 - Corrosion		144		0	48	96	0
515 - Steel Protective Coating		3818	sq. ft.	2945	0	291	582
3430 - Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)		873		0	0	291	582
<b>215 - Reinforced Concrete Abutment</b>	1- Ben.	90	ft.	90	0	0	0
	Abutments: 45' each / Bents 1 & 4.						
<b>227 - Reinforced Concrete Pile</b>	1- Ben.	12	each	12	0	0	0
	Piling: 6 per bent / Bents 2 & 3.						
<b>234 - Reinforced Concrete Pier Cap</b>	1- Ben.	84	ft.	84	0	0	0
	Caps: 42' each / Bents 2 & 3.						
<b>302 - Compression Joint Seal</b>	1- Ben.	160	ft.	0	40	120	0
	Joints: 40' each / Bents 1-4. Joints are beginning to show some minor wear and tattering, with some loss of adhesion and leakage in many places common on all joint seals - evidenced by rusting on ends of girders and bearings and debris build-up on top of caps.						
2310 - Leakage		100		0	40	60	0
2330 - Seal Damage		60		0	0	60	0
<b>311 - Movable Bearing</b>	1- Ben.	18	each	0	5	13	0
	Movable bearings: 6 per bent / Bents 2a, 2b, & 3a. Coating: 1 square feet each. Some minor pitting and flaking on sole and masonry plates, heaviest on Bearings 2-5 @ Bent 2 and Bearings 1-5 @ Bent 3.						
1000 - Corrosion		18		0	5	13	0
515 - Steel Protective Coating		18	sq. ft.	0	0	5	13

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## Element Inspection

3430 - Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)		18		0	0	5	13
<b>313 - Fixed Bearing</b>	1- Ben.	18	each	0	9	9	0
Fixed bearings: 6 per bent / Bents 1, 3b, & 4. Coating: 1 square feet each. Some minor pitting and flaking on sole and masonry plates, heaviest on Bearings 2-5 @ Bent 1 and Bearings 1-5 @ Bent 3.							
1000 - Corrosion		18		0	9	9	0
515 - Steel Protective Coating		18	sq. ft.	0	0	9	9
3430 - Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)		18		0	0	9	9
<b>331 - Reinforced Concrete Bridge Railing</b>	1- Ben.	214	ft.	214	0	0	0
Railing: 107' each side.							

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**Bridge Inspection Report**

**Pictures**

PHOTO 1

Description

PHOTO 2

Description

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**Bridge Inspection Report**

**Sketches**

Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 09/28/2017

Priority: D - Routine

Work Code: N/A

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#### Deficiency Description:

Endslopes - Spans 1 & 3: Several small trees, bushes, and other vegetation growing up right along side or under bridge.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Assigned



PHOTO 1      Description      Span 3 small trees and vegetation impeding inspection process.

Stage: Open



PHOTO 2      Description      Endslope - Span 3 right: Vegetation

Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Stage: Open



PHOTO 3 Description Endslope - Span 1 left: Vegetation

Stage: Assigned



PHOTO 4 Description Span 1 right side has small trees growing along side bridge. Common left side.

Stage: Assigned



PHOTO 5 Description Endslope - Span 3 right: Vegetation

Stage: Assigned



PHOTO 6 Description Trees growing along side bridge.

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 09/23/2019

Priority: C - Important

Work Code: N/A

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#### Deficiency Description:

Joints - Bents 1-4:

Joints are beginning to show some minor wear and tattering, with some loss of adhesion and minor leakage in many places - evidenced by rusting on ends of girders and bearings and debris build-up on top of caps. Changed probity from D to C 2019 JRB

#### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Monitor



PHOTO 1 Description

Stage: Open



PHOTO 2 Description

Inspector:

Inspection Date:

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## Bridge Inspection Report

### Maintenance Needs

Stage: Monitor



PHOTO 3    Description    Bent 1 joint seals are torn and leaking.

Stage: Open



PHOTO 4    Description

Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 09/23/2019

Priority: C - Important

Work Code:

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#### Deficiency Description:

South end of approach road way both lanes have deep wheel ruts with cracking and potholes from deck up to 100'.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Open



PHOTO 1      Description      Bent 4 approach both south ends lanes of bridge has moderate to deep wheel ruts with cracking and pot holes 50-100 of off deck.

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### Maintenance Needs

Date Reported: 09/23/2019

Priority: C - Important

Work Code:

---

#### Deficiency Description:

Girder ends all spans have flaking rust with some minor section loss near bearing area due to leaking joint seals.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Open



PHOTO 1      Description      Bent 2 bearing 3 has heavy flaking rust to bearing and plate.

Stage: Open



PHOTO 2      Description      Bent 2 span 1 & 2 girder 3 left side has flaking rust to lower flange and web near bearing area.

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## Bridge Inspection Report

### Maintenance Needs

Stage: Open



PHOTO 3	Description	Span 2 girder 1 at bent 3 has heavy corrosion at right-side of . haunch area
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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 09/23/2019

Priority: D - Routine

Work Code:

---

#### Deficiency Description:

Bearings all bents have flaking rust to bearing and plates.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

---

Stage: Open



PHOTO 1      Description      Bent 2 bearing 3 has heavy flaking rust to bearing and plate.

Stage: Open



PHOTO 2      Description      Span 3 at bent 3 girder 3 fixed bearing has heavy corrosion . Common on all bearings this span.

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### Maintenance Needs

Stage: Open



PHOTO 3      Description      Span 2 at bent 3 bearing 2 and girder 2 have flaking rust.