

# Bridge Inspection Report

**02649**

**State Highway 28  
over  
Negro Creek-Scott Co.**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

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Inspector:

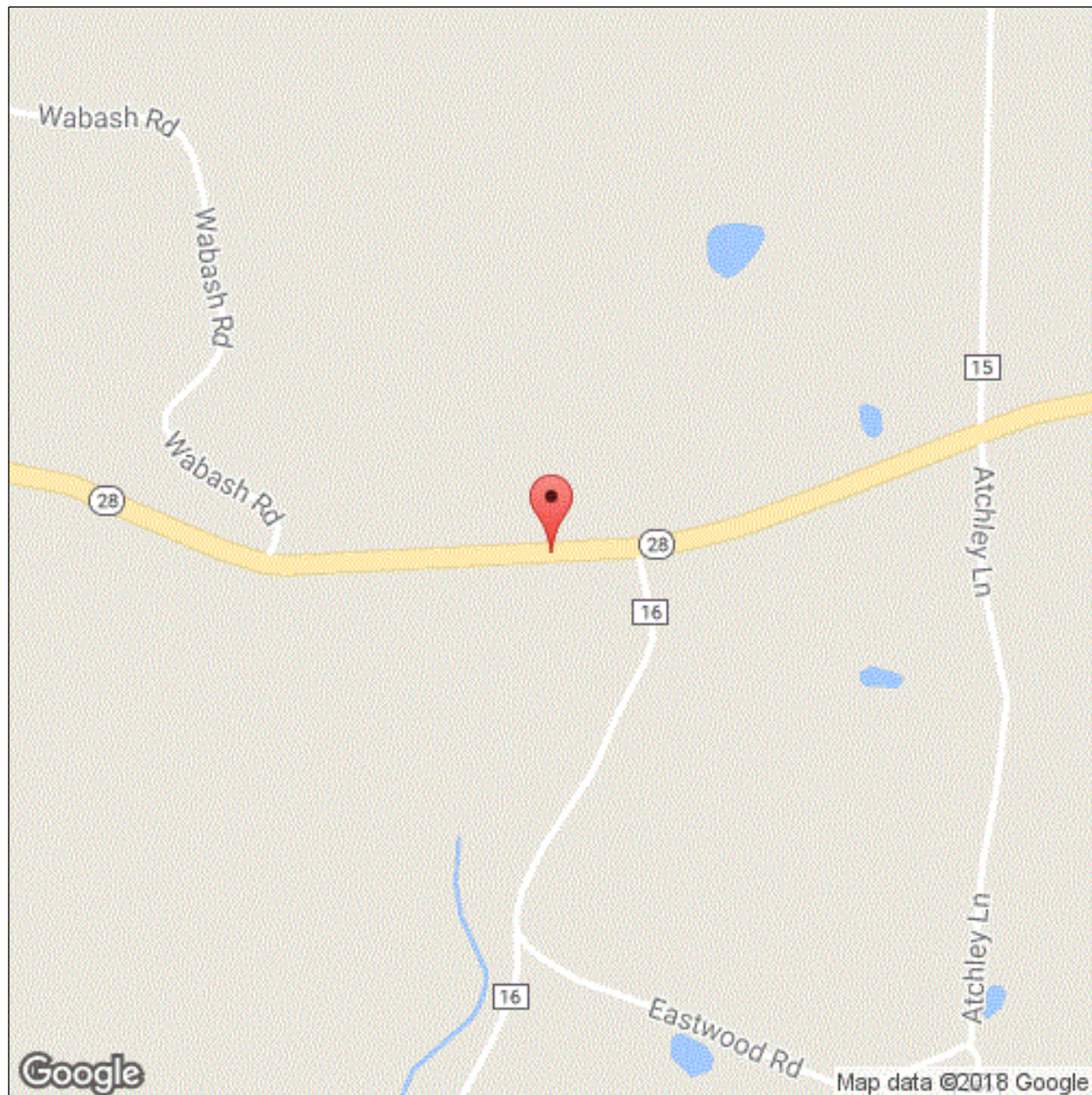
Structure Number: 02649

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Facility Carried: State Highway 28

## Bridge Inspection Report

### Location Map



Latitude: 34.80771

Longitude: -94.01289



Inspector:

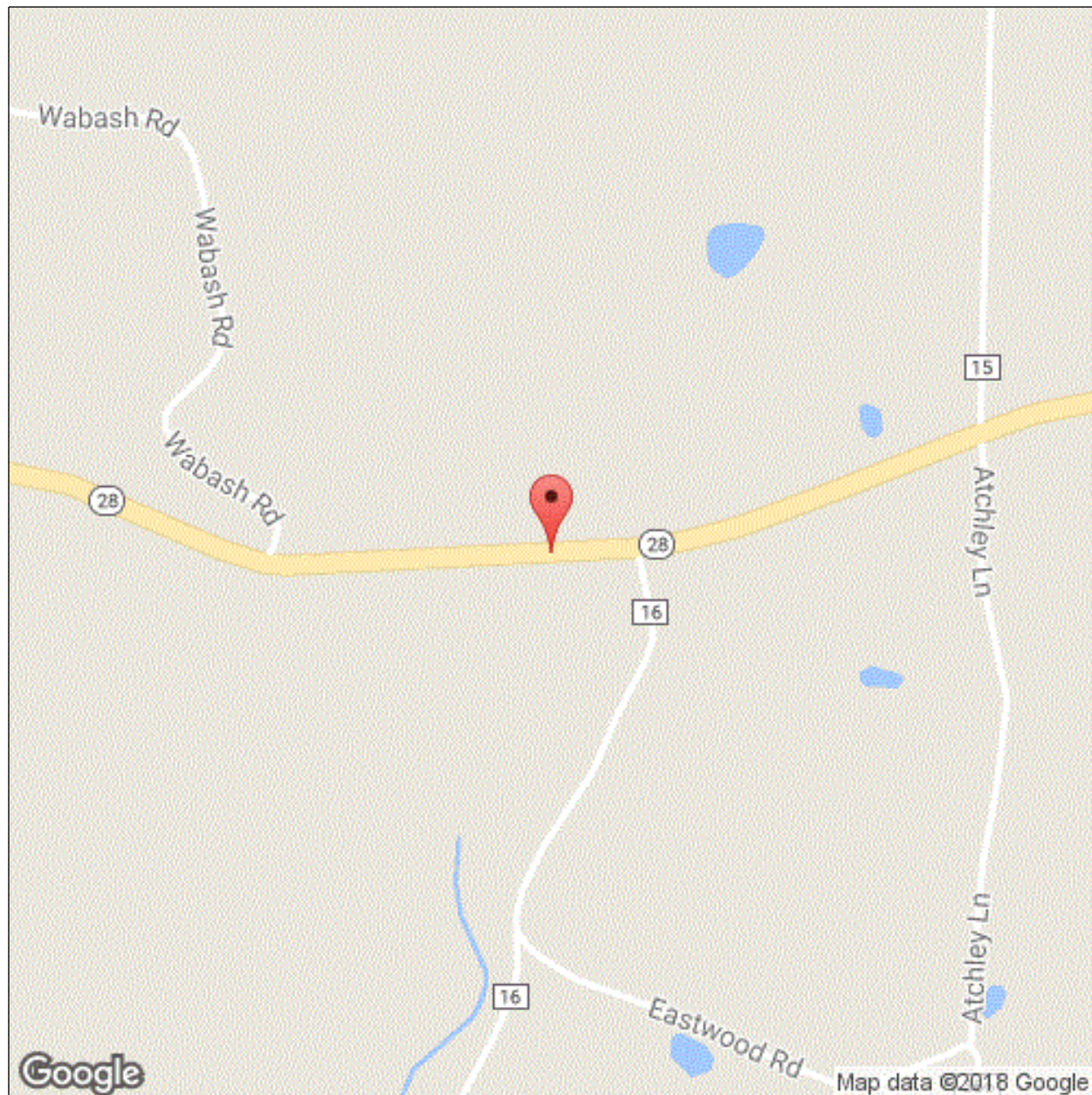
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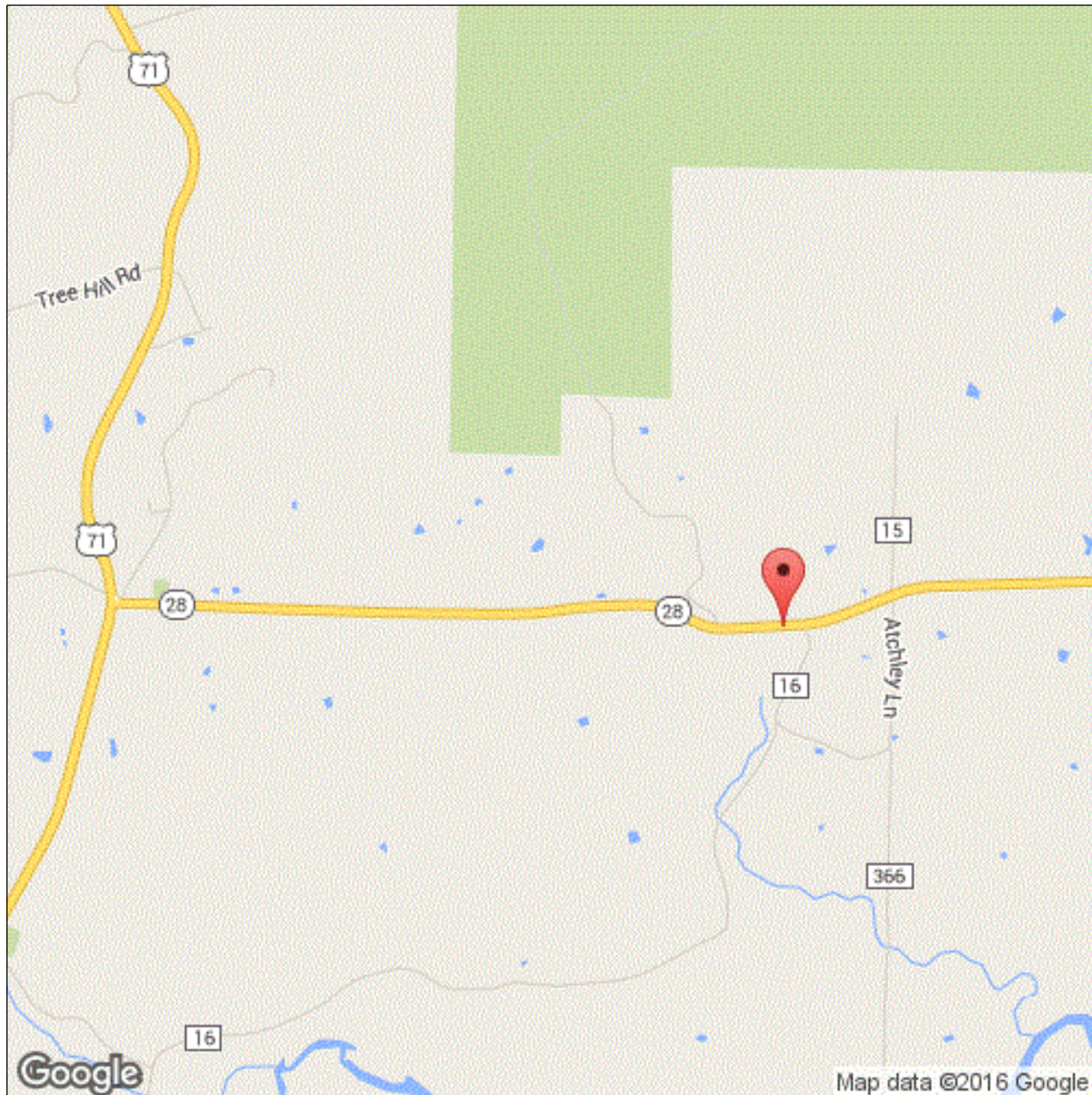
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**Executive Summary**

07/29/2019 - EJW - Updated wearing surface thickness on this date based on email from Chad Davis indicating that the wearing surface was milled off and replaced with 3/4" asphalt wearing surface.

01/22/2018 - EJW & JRT - Underwater Type II inspection conducted on this date. Visual observation with dry channel indicates the footings have cover with no apparent scour problems at this inspection.

01/26/2016 JPB & RSM-Routine inspection conducted this date.

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## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	01/22/2018
(8) STRUCTURE NUMBER	02649	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 28 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	04 (3) COUNTY CODE 127	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Negro Creek-Scott Co.	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	State Highway 28		
(9) LOCATION	1.52 MI E JCT OF US 71		
(11) MILEPOINT 1.520	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.80771	(17) LONGITUDE -94.01289		
(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: 1 - Concrete		(59) SUPERSTRUCTURE 6	(60) SUBSTRUCTURE 6
B) TYPE OF DESIGN/CONSTR: 01 - Slab		(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 0		
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 6		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1950	(106) YEAR RECONSTRUCTED 0000	(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	32.0
(29) AVERAGE DAILY TRAFFIC 700	(19) BYPASS DETOUR LENGTH 14	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	19.0
(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.) 15	(49) STRUCTURE LENGTH (ft.) 46	(67) STRUCTURAL EVALUATION	4
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 1 RIGHT 1		(68) DECK GEOMETRY	4
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	22.0	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	24	(71) WATERWAY ADEQUACY	6
(32) APPROACH ROADWAY WIDTH (ft.)	24.0	(72) APPROACH ROADWAY ALIGNMENT	6
(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:	0
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	23.6	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	58.9 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	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 927	(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	1
		(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>38 - Reinforced Concrete Slab</b>	1- Ben.	1104	sq. ft.	1070	30	4	0
	-Concrete slab span with asphalt overlay. -Spans # 1 and # 2 have longitudinal cracking with light efflorescence visible in the undersurface in random locations. -The deck drains have areas of spalling with exposed reinforcing steel visible from the undersurface. Exposed reinforcing steel has active corrosion with initial section loss. -The driving surface has an asphalt overlay with transverse cracking over the bents. -The North slope at the West bridge end has an area of erosion that has caused loss of embankment and is nearing the approach roadway.						
1090 - Exposed Rebar		4				4	
1130 - Cracking (RC and Other)		30			30		
510 - Wearing Surfaces		1012	sq. ft.	924	0	88	0
3220 - Crack (Wearing Surface)		88				88	
<b>213 - Masonry Pier Wall</b>	1- Ben.	44	ft.	0	2	42	0
	-Rock masonry substructure with grout deterioration at the bases of bents with minor grout cracking typical.						
1120 - Efflorescence/Rust Staining		2			2		
1610 - Mortar Breakdown (Masonry)		42				42	
<b>217 - Masonry Abutment</b>	1- Ben.	70	ft.	0	0	70	0
	-Vertical crack in the Right side of the West abutment breast wall and the Left and Right sides of the East abutment breast wall at the wing wall junctures. -The East abutment has one loose stone at the base of the abutment that has shifted slightly out of position due to grout deterioration. -The bases of abutments have grout deterioration. -The west abutment has a few areas of light efflorescence in the horizontal grout joints in the upper portion of the wall. -Southeast wing wall has Displaced stones.						
1120 - Efflorescence/Rust Staining		6			2	4	
1610 - Mortar Breakdown (Masonry)		62				62	
1640 - Masonry Displacement		4				4	
<b>234 - Reinforced Concrete Pier Cap</b>	1- Ben.	88	ft.	85	1	2	0
	-One exposed portion of reinforcing steel that appears to be as built in the Cap of Bent # 2 on the Span # 1 side. -The Right side of Bent # 2 cap has one baseball size shallow spall with exposed reinforcing steel. The exposed reinforcing steel has active corrosion with section loss.						
1090 - Exposed Rebar		3			1	2	
<b>330 - Metal Bridge Railing</b>	1- Ben.	92	ft.	0	92	0	0
	The Bridge railing has a failing paint system with a rust coating over the majority of the railing.						



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**Element Inspection**

1000 - Corrosion		92			92		
515 - Steel Protective Coating		184	sq. ft.	0	92	92	0
3440 - Effectiveness (Steel Protective Coatings)		184			92	92	

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**Pictures**

PHOTO 1

Description

PHOTO 2

Description

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**Bridge Inspection Report**

**Sketches**



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### Bridge Inspection Report

#### Maintenance Needs

Date Reported: 1/24/2014 12:00:00 AM

Priority: D - Routine

Work Code: Repair

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#### Deficiency Description:

Concrete Slab Span

Spalling with exposed reinforcing steel on the undersurface of the slab adjacent to the deck drains.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Assigned



PHOTO 1      Description      Spalling with exposed reinforcing steel adjacent to deck drain on Right side of span #3.

Stage: Assigned



PHOTO 2      Description      Spalling with exposed reinforcing steel adjacent to deck drain.

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## Maintenance Needs

Date Reported: 1/24/2014 12:00:00 AM

Priority: D - Routine

Work Code: Repair

---

### Deficiency Description:

Substructure

Cracking adjacent to the wing walls.

The Southeast stone masonry wing wall has apparent collision damage that has displaced stones from the top of the wing wall.

### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Assigned



PHOTO 1      Description      Vertical crack in the Right side of the West abutment breast wall.

Stage: Open



PHOTO 2      Description      Southeast wing has Displaced stones.



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### Maintenance Needs

Date Reported: 01/26/2016

Priority: C - Important

Work Code: Repair

---

#### Deficiency Description:

Approach Roadway

The North slope at the West Bridge end has an area of erosion that has caused loss of embankment material and is nearing the approach roadway.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Open



PHOTO 1      Description      Erosion to the North slope at the West bridge end.

Stage: Monitor



PHOTO 2      Description