

# Bridge Inspection Report

01914  
US 412-08- LM 4.50  
over  
GRASSY SLOUGH



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

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Inspector:

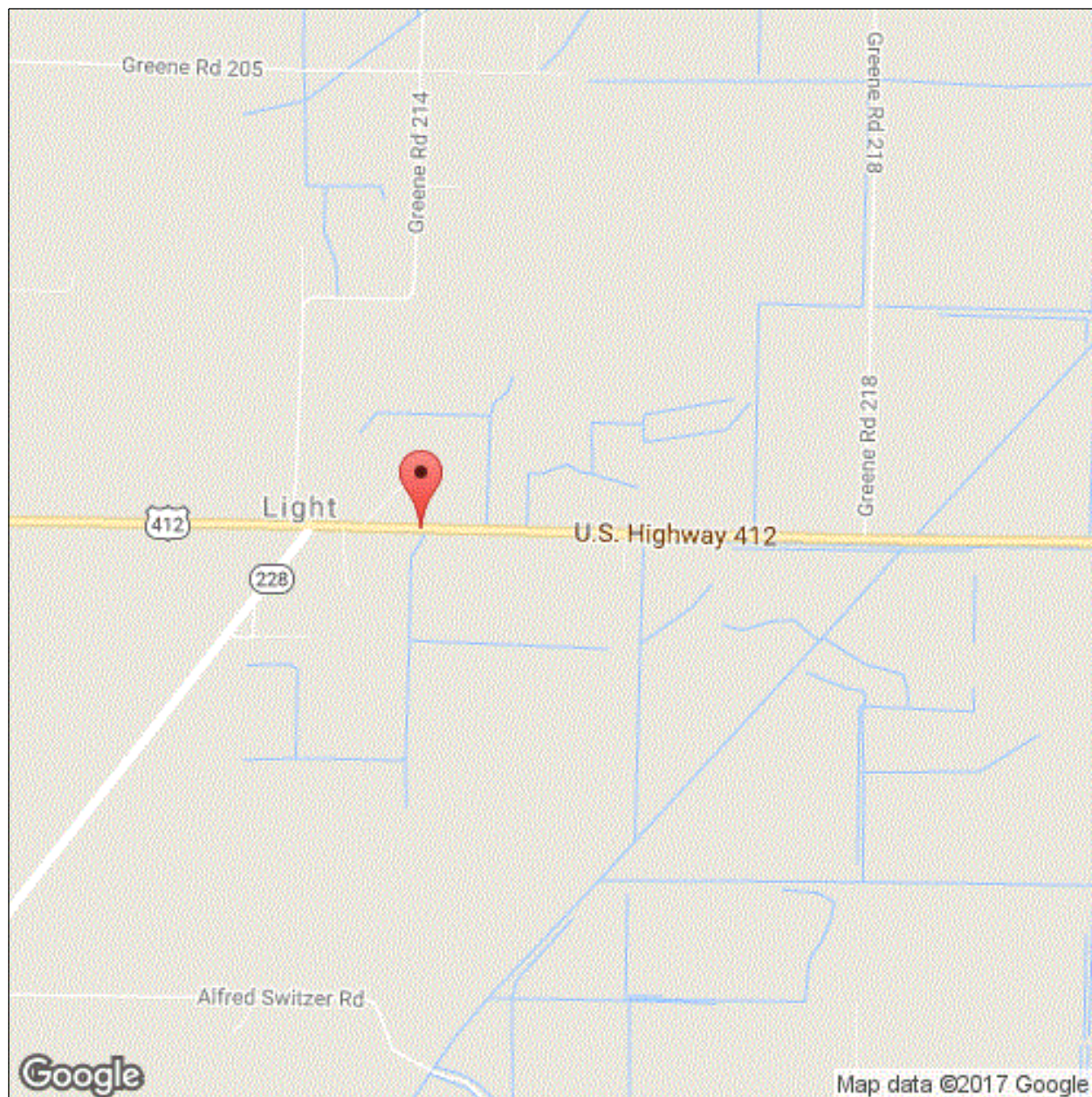
Structure Number: 01914

Inspection Date:

Facility Carried: US 412-08- LM 4.50

## Bridge Inspection Report

### Location Map



Latitude: 36.06936

Longitude: -90.74308



Inspector:

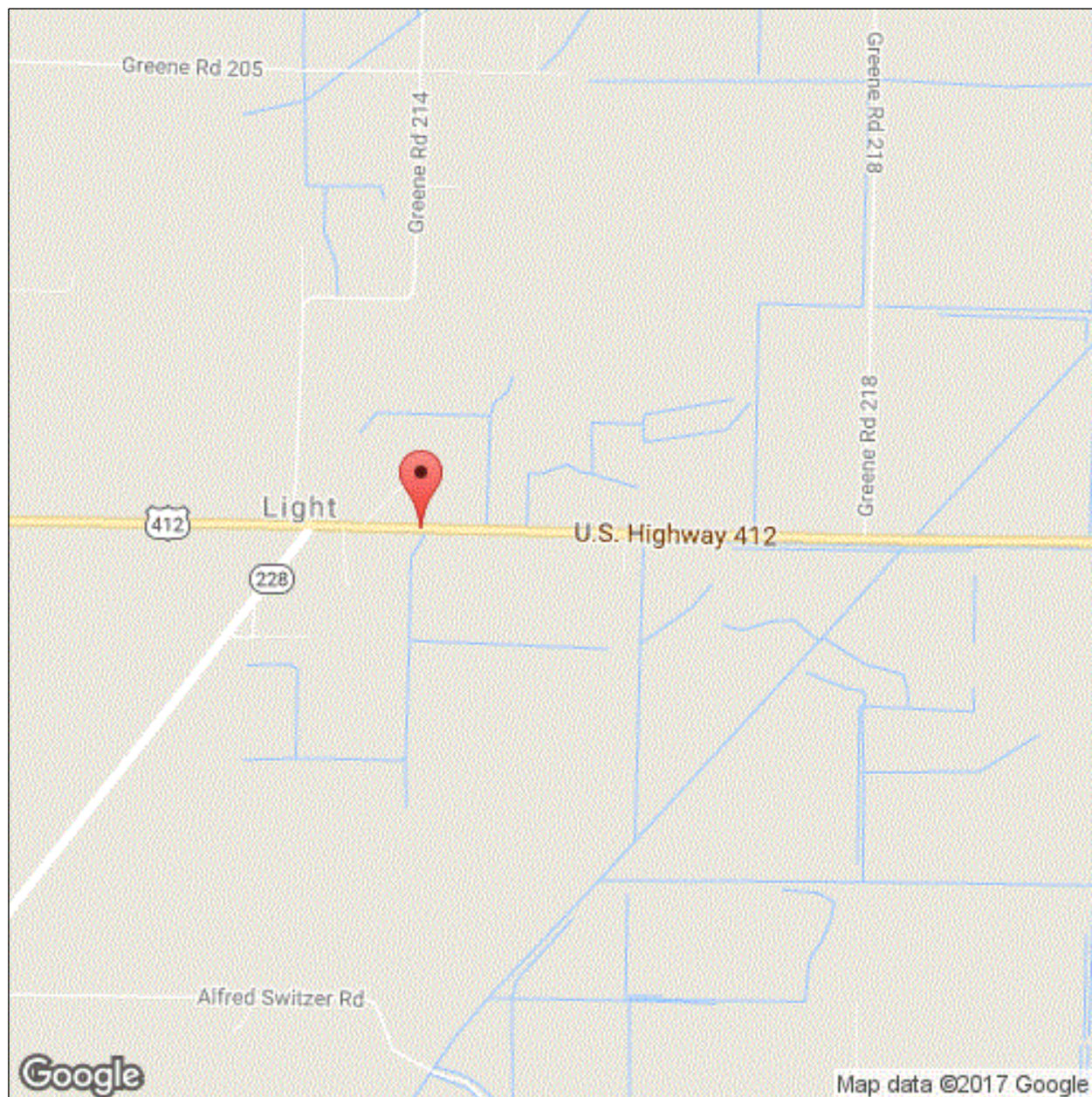
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### Location Map



Latitude: 36.06936

Longitude: -90.74308



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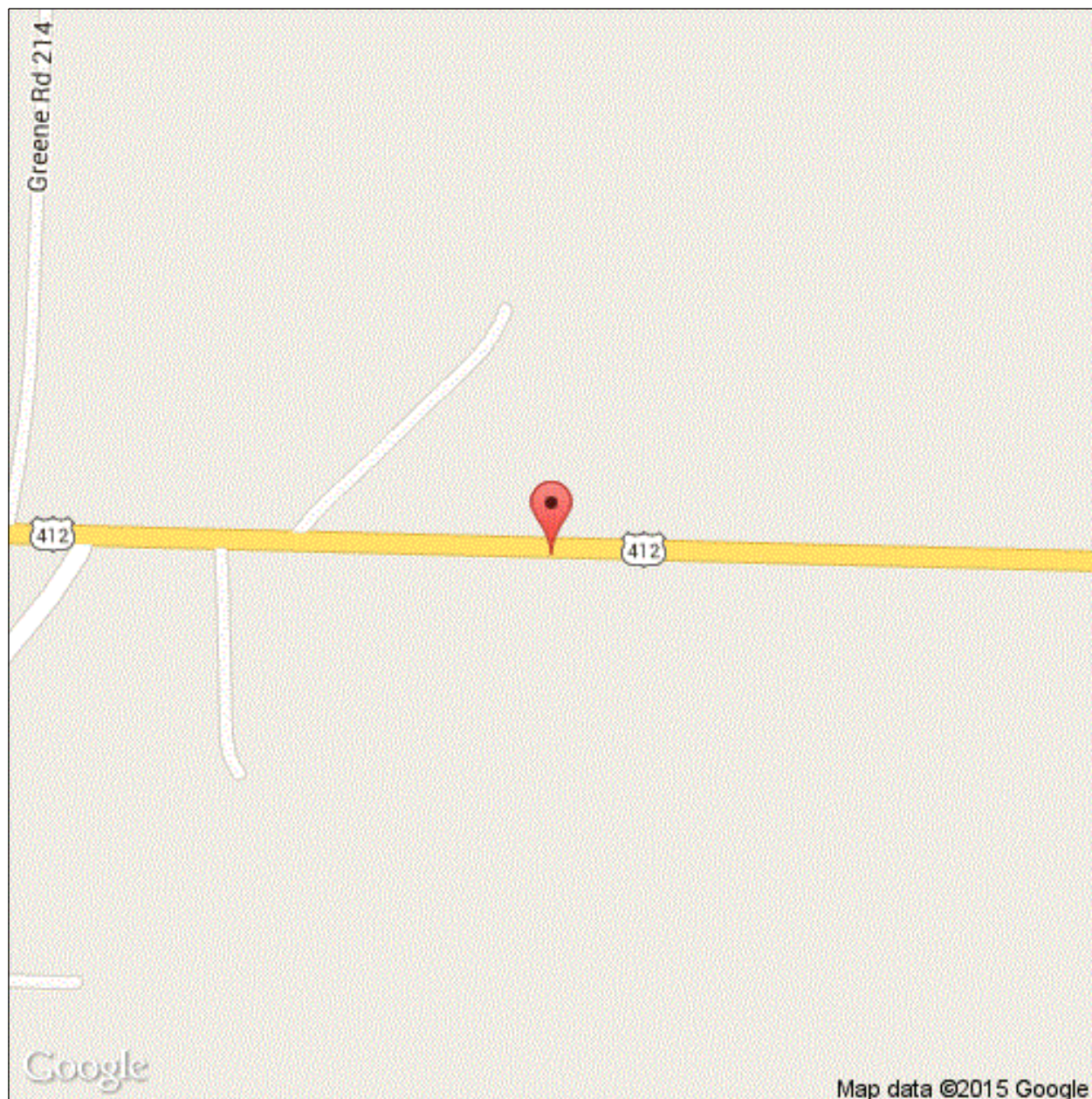
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## Location Map



Latitude: 36.06936

Longitude: -90.74308

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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	08/08/2017
(8) STRUCTURE NUMBER	01914	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 412 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	10 (3) COUNTY CODE 055	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	GRASSY SLOUGH	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 412-08- LM 4.50		
(9) LOCATION	4.50 MI E OF CACHE RIVER		
(11) MILEPOINT 4.500	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000412080 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 36.06936	(17) LONGITUDE -90.74308		
(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	7
B) TYPE OF DESIGN/CONSTR: 04 - Tee Beam		(60) SUBSTRUCTURE	7
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	7
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN	2 (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	1935 (106) YEAR RECONSTRUCTED	(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	51
(29) AVERAGE DAILY TRAFFIC	4200 (19) BYPASS DETOUR LENGTH	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(66) INVENTORY RATING	31
(109) AVERAGE DAILY TRUCK TRAFFIC	22	(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	30 (49) STRUCTURE LENGTH (ft.)	(67) STRUCTURAL EVALUATION	7
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0.6 RIGHT 0.6	(68) DECK GEOMETRY	3
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	27.0	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	29.0	(71) WATERWAY ADEQUACY	9
(32) APPROACH ROADWAY WIDTH (ft.)	41.0	(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:	0
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	26.9	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	76.0
		STATUS	2
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	31 (75B) WORK DONE BY	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	86.0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
(95) ROADWAY IMPROVEMENT COST (\$)	176	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	360	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2003	(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT	4600 (115) YEAR OF FUTURE ADT	(103) TEMP STRUCTURE	
		(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	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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## Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
16 - Reinforced Concrete Top Flange	1- Ben.	1804	sq. ft.	1736	68	0	0
1120 - Efflorescence/Rust Staining		68			68		
510 - Wearing Surfaces		1674	sq. ft.	714	480	480	0
3220 - Crack (Wearing Surface)		960			480	480	
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	308	ft.	288	20	0	0
1130 - Cracking (RC and Other)		20			20		
215 - Reinforced Concrete Abutment	1- Ben.	74	ft.	74			
227 - Reinforced Concrete Pile	1- Ben.	5	each	5			
234 - Reinforced Concrete Pier Cap	1- Ben.	27	ft.	27			
311 - Movable Bearing	1- Ben.	10	each	0	5	5	0
1000 - Corrosion		10			5	5	
313 - Fixed Bearing	1- Ben.	10	each	0	5	5	0
1000 - Corrosion		10			5	5	
333 - Other Bridge Railing	1- Ben.	123	ft.	123			



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Pictures

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## Bridge Inspection Report

Sketches

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Bridge Inspection Report

## Maintenance Needs

Date Reported: 8/20/2013 12:00:00 AM

Priority: D - Routine

Work Code:

---

### Deficiency Description:

#### Bearings

are rusted with pitting, a few have some section loss.

Majority of anchor bolts and nuts are rusted with some section loss.

Span 2 Girder 1 over Bent 2 left side plate has 1bolt and nut rusted or sheared off.

Span 2 Girder 5 over Bent 2 right inside plate has 1bolt and nut rusted or sheared off.

Span 2 Girder 5 over Bent 3 inside and out side plates have 1bolt and nut rusted or sheared off, 1 each.

Work Description:

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Date Repairs Completed:

Maintenance Comments:

---

Date Reported: 8/20/2013 12:00:00 AM

Priority: D - Routine

Work Code:

---

### Deficiency Description:

#### Top of Deck Asphalt Overlay

has moderate size and density cracks, mainly over joints

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---



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## Maintenance Needs

Date Reported: 8/20/2013 12:00:00 AM

Priority: D - Routine

Work Code:

---

Deficiency Description:

Log Mile Posting  
is incorrect, correct LM=4.50.

Work Description:

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Date Repairs Completed:

Maintenance Comments:

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