

Bridge Inspection Report

**A1331
US 64 WHITE
over
WHITE RIVER RELIEF**



Inspection Date:

Inspected By:

Inspection Type(s):





Inspector:

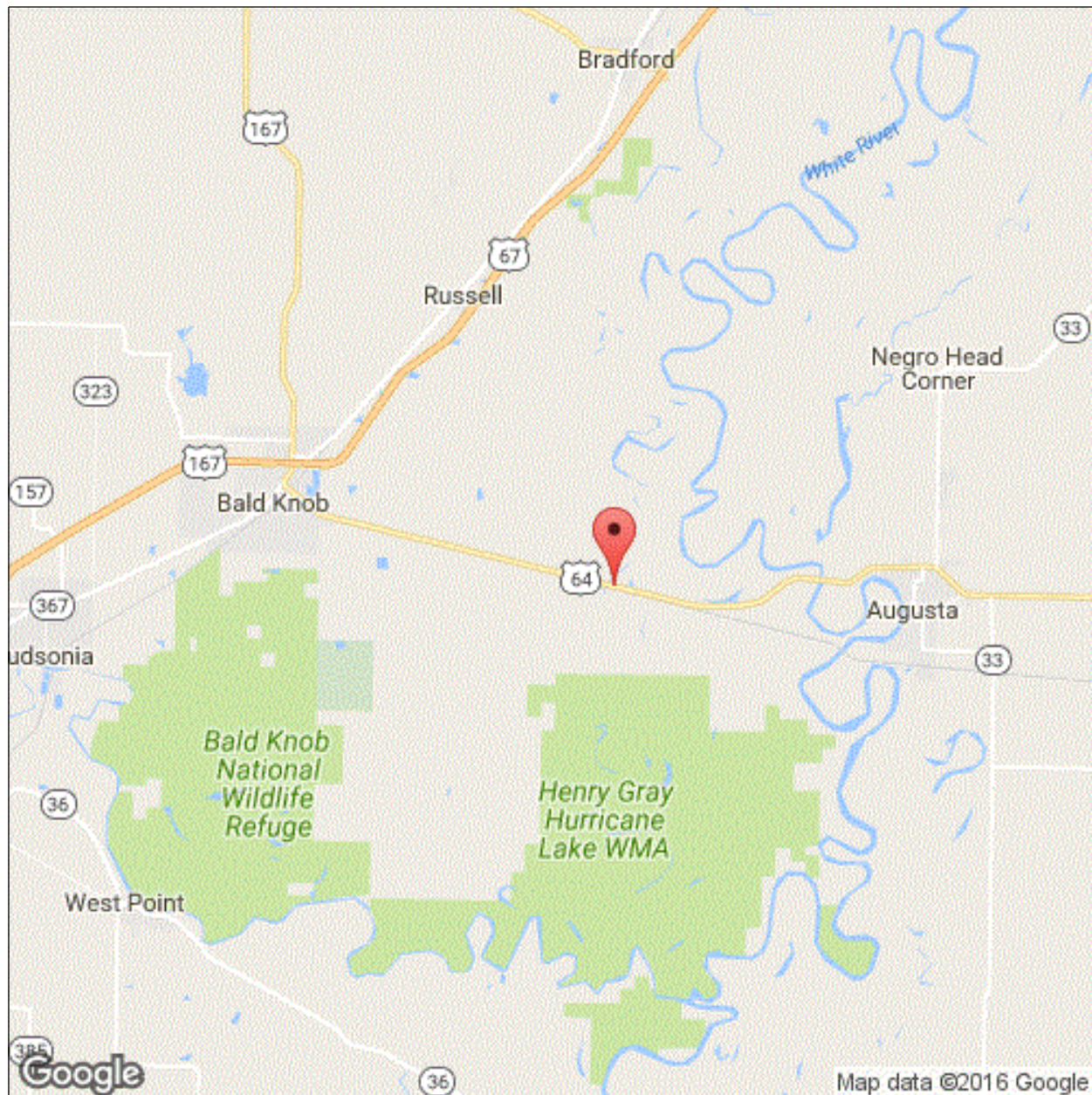
Structure Number: A1331

Inspection Date:

Facility Carried: US 64 WHITE

Bridge Inspection Report

Location Map



Latitude: 35.28821

Longitude: -91.45981

Inspector:

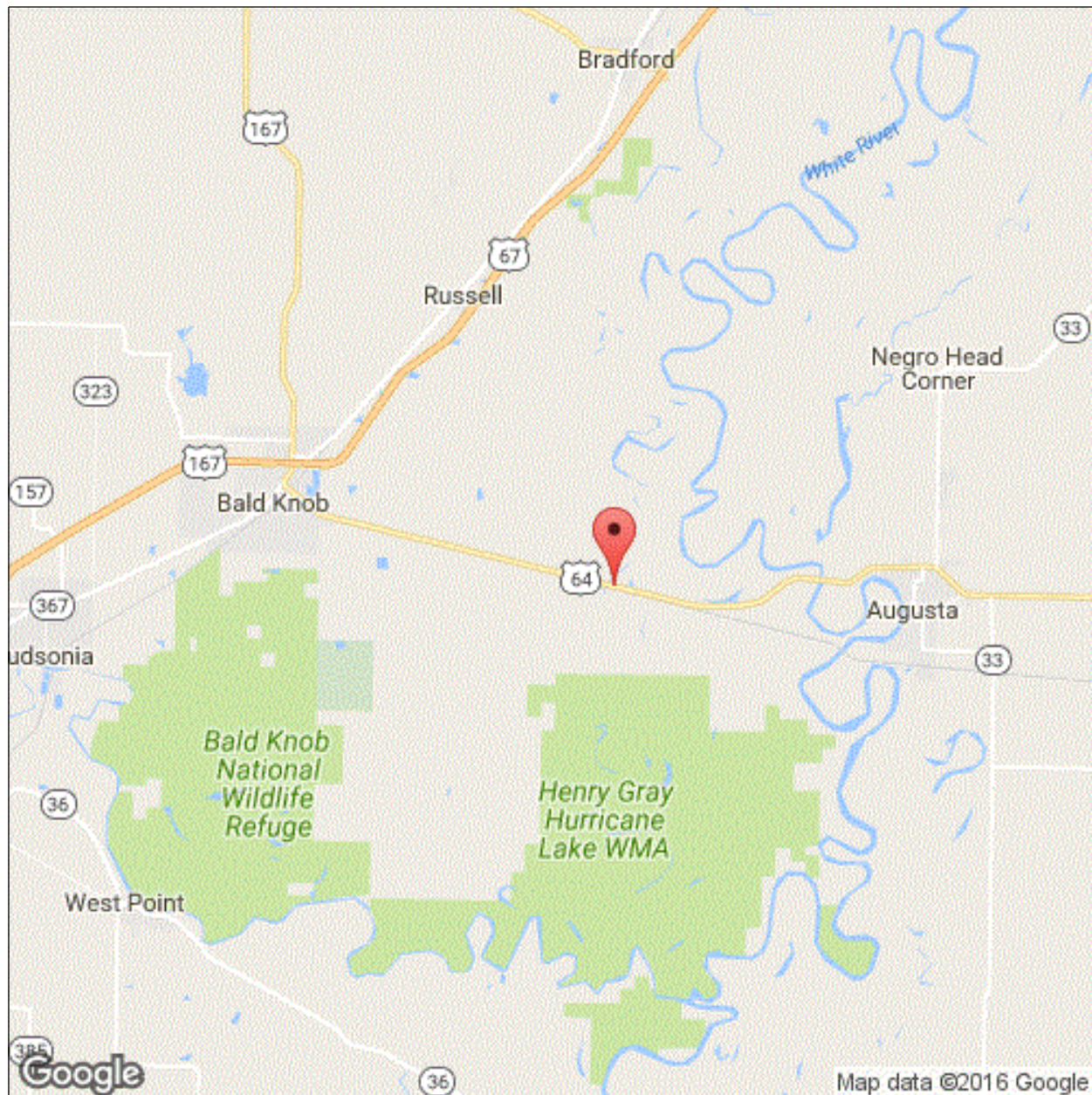
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Location Map



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Bridge Inspection Report

Executive Summary

Logmile looking East.

Construction Job: 5501

Inspector:

Structure Number: A1331

Inspection Date:

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	08/11/2016
(8) STRUCTURE NUMBER	A1331	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 64 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	05 (3) COUNTY CODE 145	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	WHITE RIVER RELIEF	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 64 WHITE		
(9) LOCATION	6.25 MI E JCT US 67		
(11) MILEPOINT 6.660	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000064110 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.28821	(17) LONGITUDE -91.45981		
(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	5
B) TYPE OF DESIGN/CONSTR: 04 - Tee Beam		(60) SUBSTRUCTURE	5
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	6
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN	17 (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	1930 (106) YEAR RECONSTRUCTED	(31) DESIGN LOAD	4
(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	5400 (19) BYPASS DETOUR LENGTH	(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	15	(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	34 (49) STRUCTURE LENGTH (ft.)	(67) STRUCTURAL EVALUATION	5
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 1.5 RIGHT 1.5	(68) DECK GEOMETRY	4
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	27.9	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	30.9	(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.)	42.0	(72) APPROACH ROADWAY ALIGNMENT	7
(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.)	27.9	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	0
		STATUS	53.4
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	7700 (115) YEAR OF FUTURE ADT	(103) TEMP STRUCTURE	
	2033	(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: A1331

Inspection Date:

Facility Carried: US 64 WHITE

Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	17860	sq. ft.	14201	1348	1611	700
	SEE FORM III Large areas of scaling to deck where widened. Spalls w/t efflorescent cracking & rebar exposed to deck below at all spans.						
1080 - Delamination/Spall/Patched Area		2				2	
1090 - Exposed Rebar		30				30	
1120 - Efflorescence/Rust Staining		313				313	
1130 - Cracking (RC and Other)		1932			224	1008	700
1190 - Abrasion/Wear (PSC/RC)		1382			1124	258	
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	3468	ft.	3203	27	238	0
	Spalls with rebar exposed at all spans. Cracking at ends of several girders at most spans. Horizontal & vertical cracking, some with efflorescence on girders at all spans. SEE FORM III						
1080 - Delamination/Spall/Patched Area		90				90	
1090 - Exposed Rebar		80				80	
1120 - Efflorescence/Rust Staining		27			27		
1130 - Cracking (RC and Other)		68				68	
205 - Reinforced Concrete Column	1- Ben.	96	each	63	25	8	0
	Bent 4 - Pile 4 has vertical crack & delamination at top. Pile 5 has spall with 10" rebar exposed. Bent 8 - Pile 6 has cracks, spall with 5' rebar exposed. Bent 9 - Piles 3, 4, & 5 has minor scour. Bent 10 - Pile 4 has cracking, spall with 7' rebar exposed. Pile 5 has spall with 4' rebar exposed. Bent 11 - Pile 1 has spall with 1' rebar exposed. Pile 6 has spall with 7' rebar exposed. Bent 12 - Piles 2, 3, 4, & 5 have minor scour. Bent 13 - Piles 2, 3, 4, & 5 have minor scour. Bent 14 - Piles 1, 2, 3, 4, & 5 have minor scour. Bent 15 - Piles 1, 2, 3, 4, & 5 have minor scour. Bent 16 - Piles 1, 2, 3, 4, & 5 have minor scour. SEE FORM III						
1080 - Delamination/Spall/Patched Area		1				1	
1090 - Exposed Rebar		6				6	
1130 - Cracking (RC and Other)		1				1	
6000 - Scour		25			25		

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Element Inspection

215 - Reinforced Concrete Abutment	1- Ben.	70	ft.	66	2	2	0
	Abutment 1 - Settlement with 2 piles exposed. Abutment 2 - Delaminated area to backwall between Girders 3 & 4. 1' spall at Right end. 2' cracks with rust stains. Settlement with 2 piles exposed. Cracks to Right wing.						
1080 - Delamination/Spall/Patched Area		2				2	
1130 - Cracking (RC and Other)		2			2		
234 - Reinforced Concrete Pier Cap	1- Ben.	454	ft.	362	7	85	0
	SEE FORM III						
1080 - Delamination/Spall/Patched Area		43				43	
1090 - Exposed Rebar		42				42	
1130 - Cracking (RC and Other)		7			7		
311 - Movable Bearing	1- Ben.	34	each	34			
	Rust & corrosion to bearings 1 & 6 at Bents 2, 4, 6, 8, 10, 12, 14, & 16.						
515 - Steel Protective Coating		34	sq. ft.	34			
330 - Metal Bridge Railing	1- Ben.	1156	ft.	809	347	0	0
	Collision damage to approach rail. Railing has areas of rust & corrosion.						
1000 - Corrosion		347			347		
515 - Steel Protective Coating		3468	sq. ft.	0	2472	996	0
3440 - Effectiveness (Steel Protective Coatings)		3468			2472	996	

Agency Inventory

Structural

BRIDGE GROUP

WEARING SURFACE THICKNESS IN

WEATHERING STEEL No

PIN / HANGER No

STAY IN PLACE FORMS No

STEEL TONS Tons(41) STRUCTURE
OPEN/POSTED/CLOSED A**Location**ROAD / ROUTE NAME SECTION ZONE **Seismic**

SEISMIC

SEISMIC YEAR / ZONE **Notification**SCHOOL DISTRICT EMAIL OWNER EMAIL

LATE REASON

Load Po**Calculated**

CODE 4 VEHICLE (22 tons)

CODE 9 VEHICLE (31 tons)

CODE 5 VEHICLE (40 tons)

Posted

Bridge Beginning

CODE 4 TonsCODE 9 TonsCODE 5 Tons**Stip**

APHN

STIP

JOB NUMBER

PROG. JOB NUMBER

OLD BRIDGE NUMBER

NEW BRIDGE NUMBER

BRIDGE CONDITION INDEX

Notes

Inspector:

Inspection Date:

Structure Number: A1331

Facility Carried: US 64 WHITE

Bridge Inspection Report

Maintenance Needs

Date Reported: 08/11/2016

Priority: D - Routine

Work Code:

Deficiency Description:

Deterioration & scaling to left & right gutters at all Spans.
Spans 8, 12, & 13 have rebar exposed.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Area of deterioration & scaling w/t rebar exposed in right gutter line at Span 8.

Stage: Open



PHOTO 2 Description Deterioration & Scaling of gutter on left side, typical of Left & Right.

Inspector:

Structure Number: A1331

Inspection Date:

Facility Carried: US 64 WHITE

Bridge Inspection Report

Maintenance Needs

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

Priority: C - Important

Work Code:

Deficiency Description:

Cracks & spalls with rebar exposed to cap at Spans 1-10 & 11-16.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Cracks & Spalls with rebar exposed to cap at Spans 2 - 6 & 8 - 16.

Stage: Assigned



PHOTO 2 Description Crack on Right end of cap at Bent 3. Cracks & Spalls with rebar exposed to caps at Spans 2 - 6 & 8 - 16.

Inspector:

Inspection Date:

Structure Number: A1331

Facility Carried: US 64 WHITE

Bridge Inspection Report

Maintenance Needs

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

Priority: D - Routine

Work Code:

Deficiency Description:

Unsealed cracks to deck at all spans.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Span 1. Typical of unsealed cracks to deck at all spans.

Inspector:

Structure Number: A1331

Inspection Date:

Facility Carried: US 64 WHITE

Bridge Inspection Report

Maintenance Needs

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

Priority: D - Routine

Work Code:

Deficiency Description:

Joints are cracked, deteriorated & filled with debris at Bents 2, 4, 6, 8, 10, 12, 14, and 16.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Joints are cracked, deteriorated & filled with debris at Bents 2, 4, 6, 8, 10, 12, 14, and 16.

Inspector:

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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:

Spalls with rebar exposed with some section loss &/or cracking to concrete piles:

Bent 4 - Pile 4, 5

Bent 8 - Pile 6

Bent 9 - Piles 3, 4, 5

Bent 10 - Pile 4, 5

Bent 11 - Pile 1, 6

Bent 12 - Piles 2, 3, 4, 5

Bent 13 - Piles 2, 3, 4, 5

Bent 14 - Piles 1, 2, 3, 4, 5

Bent 15 - Piles 1, 2, 3, 4, 5

Bent 16 - Piles 1, 2, 3, 4, 5

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Pile 4 at Bent 4.
Typical of spalls with rebar exposed
&/or cracking to concrete piles at Bents
2, 3, 4, 8,
10, & 11.

Stage: Assigned



PHOTO 2 Description Pile 6 at Bent 8 with section loss to
rebar.
Spalls with rebar exposed &/or cracking
to concrete piles at Bents 2, 3, 4, 8, 10,
& 11.

Inspector:

Structure Number: A1331

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Bridge Inspection Report

Maintenance Needs

Date Reported: 08/24/2016

Priority: D - Routine

Work Code:

Deficiency Description:

Rust to bearings 1 & 6 at Bents 2, 4, 6, 8, 10, 12, 14, and 16.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Bearing assembly below Girder 6.
Typical of rust to Bearings 1 & 6 at
Bents 2, 4, 6, 8, 10, 12, 14, and 16.

Inspector:

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:

Spalls to deck below, some with rebar exposed at all spans.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Span 3 between G4-G5.
Typical of spalls to deck below, some
with rebar exposed at all spans.

Inspector:

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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:

Scour at Bents 4, 9, 10, 11, 12, 13, 14, 15 & 16.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Typical of scour at Bents 1, 2, 4, 9, 10, 11, 12, 13, 14, 15 & 16.

Inspector:

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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:

Embankment has settled at Abutment 1 & 2 with 2 piles exposed at each abutment.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Photo at Abutment 2.
Embankment has settled at Abutment 1
& 2 with 2 piles exposed at each
abutment.

Inspector:

Structure Number: A1331

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:

Spalls with rebar exposed to several Girders at Spans 2 - 17.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Girder 5 at Span 2.
Typical of spalls with rebar exposed to
girders at
Spans 2 - 17.

Inspector:

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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:

Spalls with rebar &/or cracking to concrete diaphragms at Spans 3, 5, 10, 11, 12, 13, 17.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Typical diaphragm at G3 - G4 at Bent 2.
Spalls with rebar &/or cracking to
concrete diaphragms at Spans 5 - 8 &
10 - 14 & 17.