

Bridge Inspection Report

03841
SH 208-03 LM 5.22
over
Canal No. 43



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

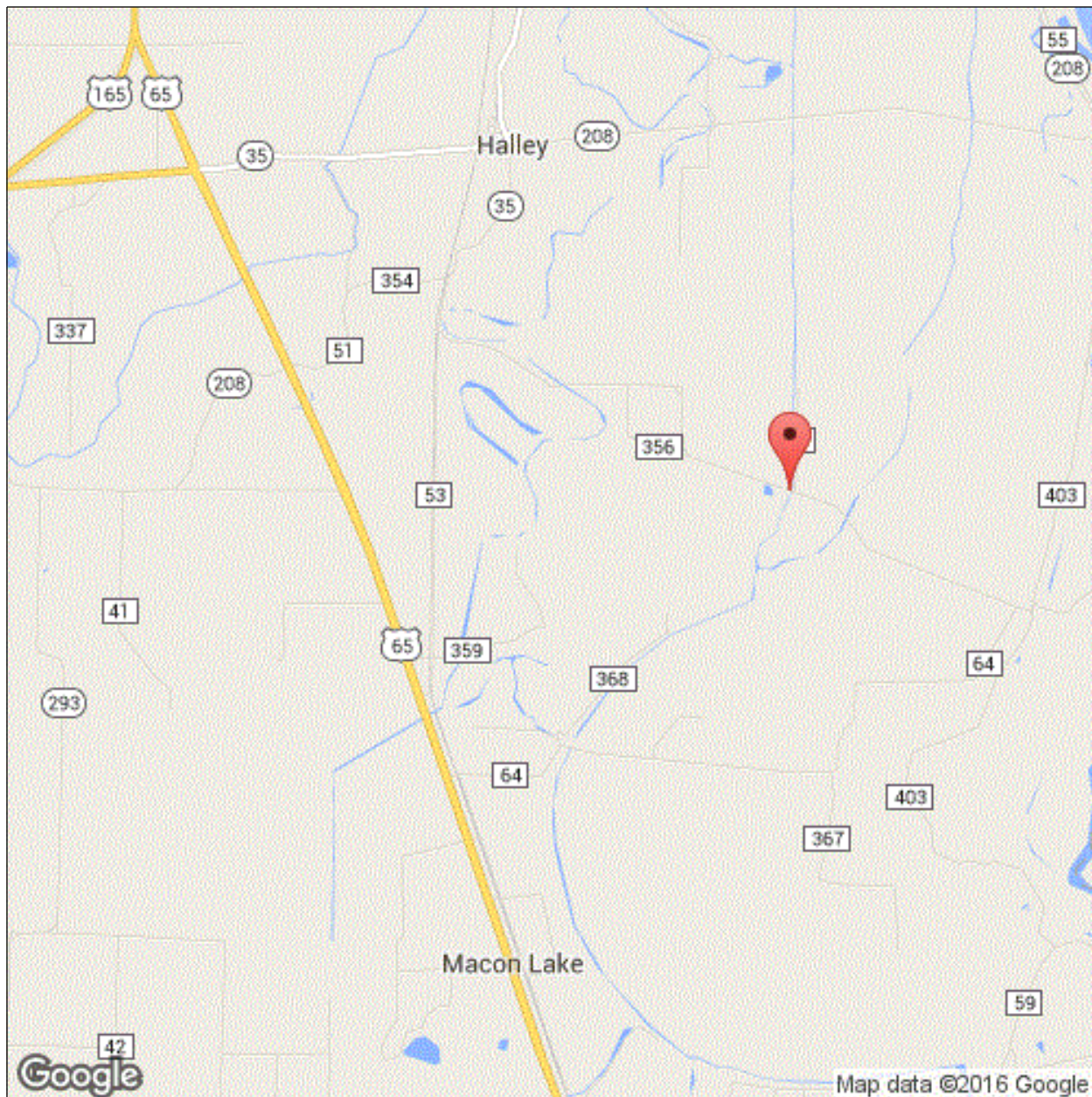
Structure Number: 03841

Inspection Date:

Facility Carried: SH 208-03 LM 5.22

Bridge Inspection Report

Location Map



Latitude: 33.49040

Longitude: -91.28087

Inspector:

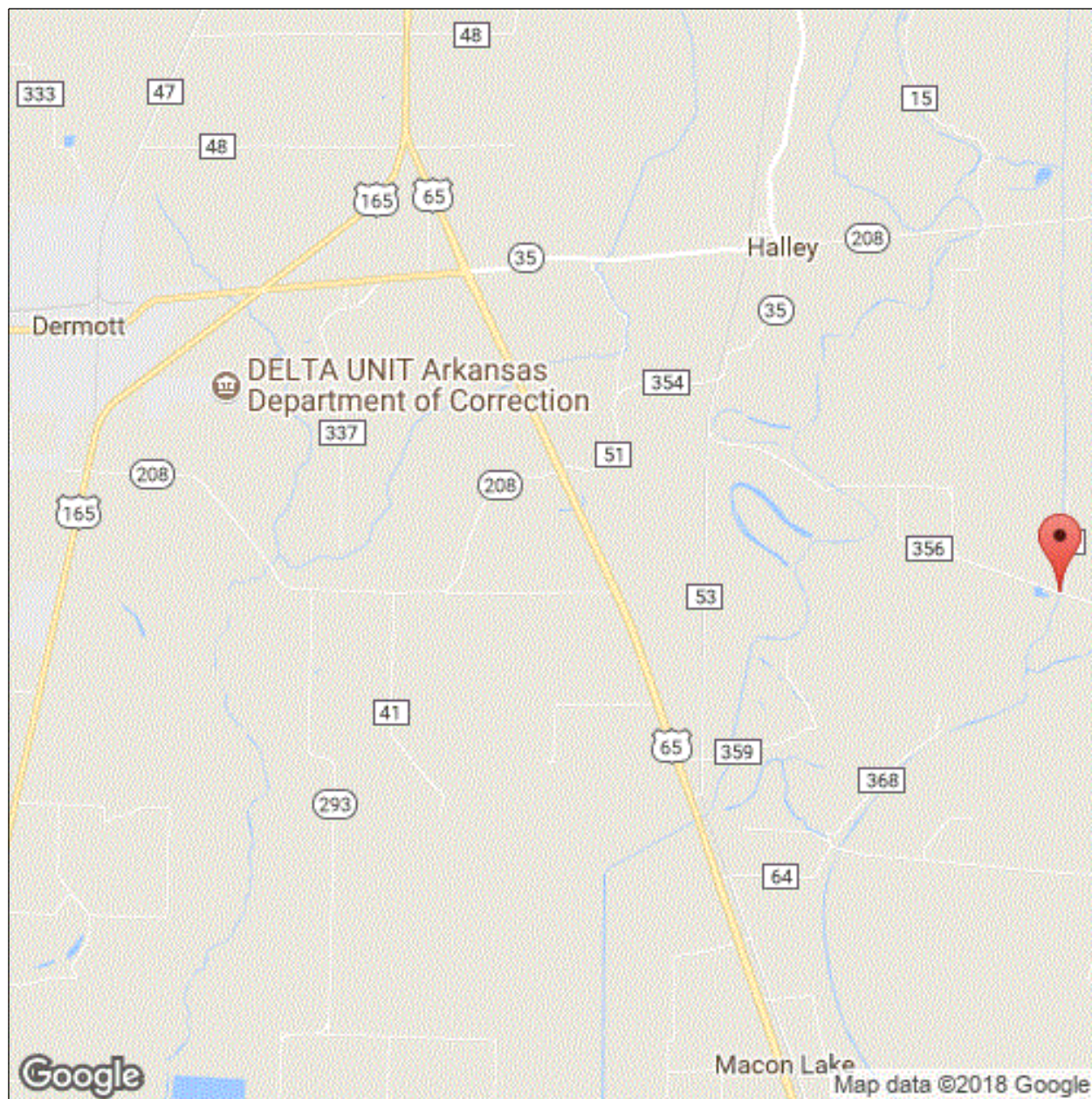
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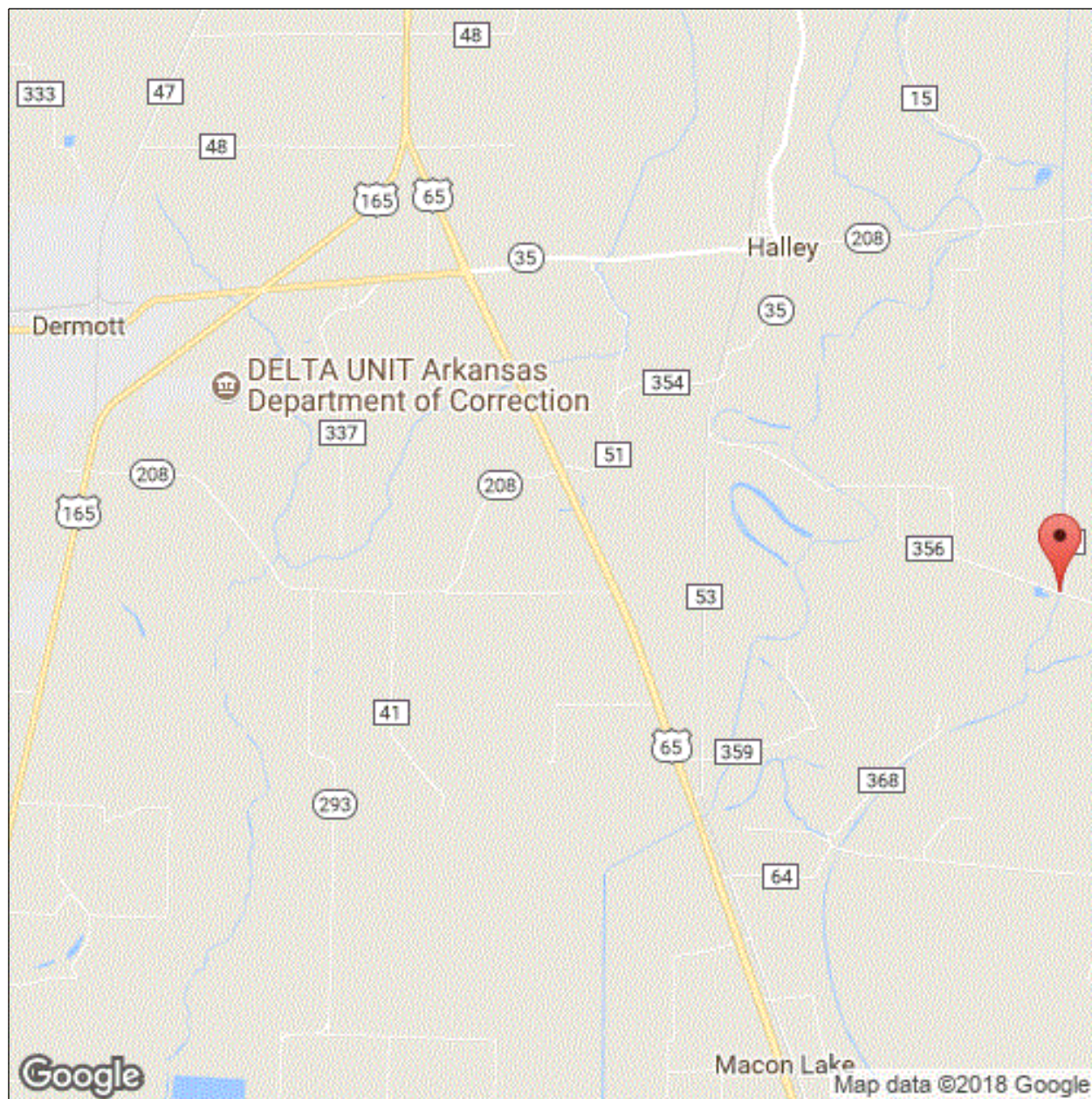
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Executive Summary

Beginning of structure toward SH 208, Halley, West End.

06-07-2006, Dropping UW inspection due to sub-str elements are not continuously submerged. Normal water depth appears 1 foot or less. Signs of short durations of high water events. Little to No signs of channel scour up or down stream. Small areas of rock riprap on slopes. NBI Items #60 and #61 will fairly represent all elements. RLW.

Changed lm from 5.29 to 5.22 per straight line dated 12092010. dlv
01032011

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National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	04/10/2018
(8) STRUCTURE NUMBER	03841	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 208 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	02 (3) COUNTY CODE 017	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Canal No. 43	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 208-03 LM 5.22		
(9) LOCATION	2.4 Mi SE Desha Co. Line		
(11) MILEPOINT 5.198	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 33.49040	(17) LONGITUDE -91.28087		
(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: 3 - Steel		(59) SUPERSTRUCTURE	6 (60) SUBSTRUCTURE 7
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(61) CHANNEL & CHANNEL PROTECTION	6 (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 1964	(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	50.0
(29) AVERAGE DAILY TRAFFIC 170	(19) BYPASS DETOUR LENGTH 10	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	30.0
(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.) 60	(49) STRUCTURE LENGTH (ft.) 142	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 1.4 RIGHT 1.4		(68) DECK GEOMETRY	5
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 24.3		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 28.5		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 22.0		(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:	0
(47) TOTAL HORIZONTAL CLEARANCE (ft.) 24.3		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	88.5 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 107	(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

Inspector:

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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
12 - Reinforced Concrete Deck	1- Ben.	4047	sq. ft.	3537	445	65	0
	Deck: 142' x 28.5' All spans: Large areas of light scaling, delaminating, and spalling with some minor- to moderate-sized transverse cracking. Soffits show a couple areas of cracking and delaminating with a couple small spalls with some reinforcing steel exposed. NOTE: State forces have previously repaired and patched numerous areas of the deck with concrete.						
1080 - Delamination/Spall/Patched Area		55			45	10	
1130 - Cracking (RC and Other)		455			400	55	
107 - Steel Open Girder/Beam	1- Ben.	700	ft.	0	688	12	0
	5 beams per span, spans 1 and 3 40' span 2 60'. Girders - all spans: Scattered areas of light surface rust - heavier areas of rust with some minor flaking and initial section loss at bents (Heaviest flaking located at on inside webs of Girders 1 & 5 at haunches - 12' total).						
1000 - Corrosion		700			688	12	
515 - Steel Protective Coating		4284	sq. ft.	0	3184	1100	0
3440 - Effectiveness (Steel Protective Coatings)		4284			3184	1100	
215 - Reinforced Concrete Abutment	1- Ben.	60	ft.	60			
	30' per abutment, bents 1 and 4.						
227 - Reinforced Concrete Pile	1- Ben.	8	each	8			
	4 pile per bent, bents 2 and 3.						
234 - Reinforced Concrete Pier Cap	1- Ben.	56	ft.	52	4	0	0
	28' per bent, bents 2 and 3. Bent 3 back has delam over pile 4. Bent 3 cap ahead has small horizontal crack over pile 4.						
1080 - Delamination/Spall/Patched Area		2			2		
1130 - Cracking (RC and Other)		2			2		
303 - Assembly Joint with Seal	1- Ben.	96	ft.	56	40	0	0
	24' per joint, joints 1-4 All joints have dirt and debris impactation at gutterlines.						
2350 - Debris Impactation		40			40		
311 - Movable Bearing	1- Ben.	15	each	0	11	4	0
	5 each per span, spans 1-3 All bents: Some light surface rust - with some minor flaking and initial section loss under rockers and on masonry plates.						
1000 - Corrosion		15			11	4	
515 - Steel Protective Coating		60	sq. ft.	0		60	

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Element Inspection

313 - Fixed Bearing	1- Ben.	15	each	0	12	3	0
5 each per span, spans 1-3 Bearings - all bents: Some light surface rust - with some minor flaking and initial section loss on masonry plates.							
1000 - Corrosion		15			12	3	
515 - Steel Protective Coating		45	sq. ft.	0		45	
330 - Metal Bridge Railing	1- Ben.	284	ft.	284			
184' each side, left and right./ metal rail on concrete post.							

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Bridge Inspection Report

Pictures

PHOTO 1

Description

PHOTO 1

Description 03841 Layout Sheet

Inspector:

Inspection Date:

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Facility Carried: SH 208-03 LM 5.22

Bridge Inspection Report

Pictures

PHOTO 1

Description

Inspector:

Inspection Date:

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Bridge Inspection Report

Sketches

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 4/24/2012 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

End slopes – Bents 1 & 4: Some areas of erosion – beginning at abutment caps and continuing down slopes.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 4/24/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Girders – all spans: Scattered areas of light surface rust – heavier areas of rust with some minor flaking and initial section loss at bents (Heaviest flaking located at on inside webs of Girders 1 & 5 at haunches).
See photos.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

Structure Number: 03841

Inspection Date:

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Maintenance Needs

Date Reported: 4/24/2012 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Deck – all spans: Large areas of light scaling, delaminating, and spalling with some minor- to moderate-sized transverse cracking. Soffits show a couple areas of cracking and delaminating with a couple small spalls with some reinforcing steel exposed.

NOTE: State forces have previously repaired and patched numerous areas of the deck with concrete.

See photos.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 4/23/2014 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Bearings – all bents: Some light surface rust – with some minor flaking and initial section loss under rockers and on masonry plates.

See photos.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

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Maintenance Needs

Date Reported: 04/10/2018

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Route and section markers read Hwy 35 should read Hwy 208.

Work Description:

Date Repairs Completed:

Maintenance Comments:
