

Bridge Inspection Report

M1290
SH 69-06- LM 1.51
over
DITCH NO 7



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

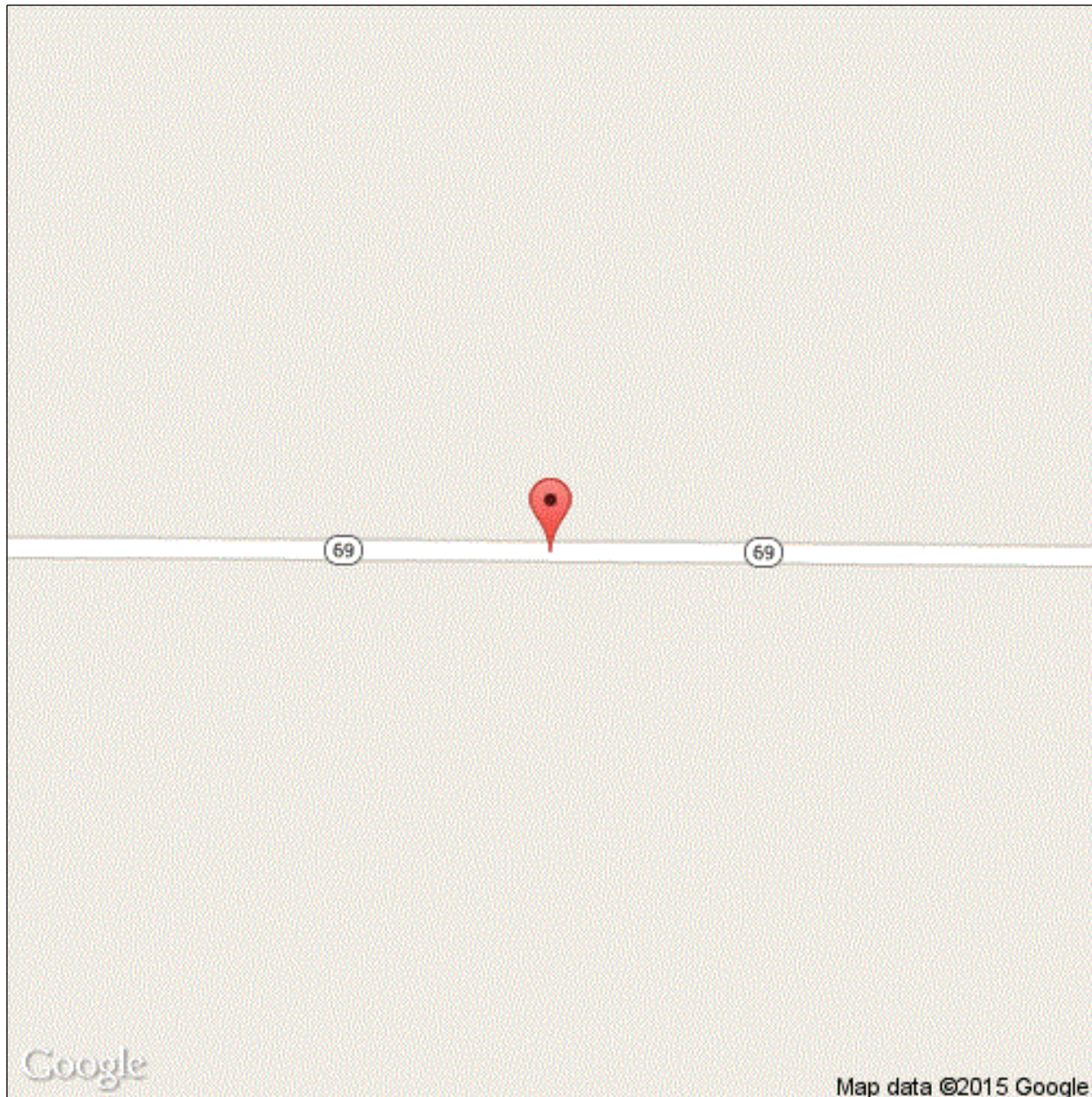
Structure Number: M1290

Inspection Date:

Facility Carried: SH 69-06- LM 1.51

Bridge Inspection Report

Location Map



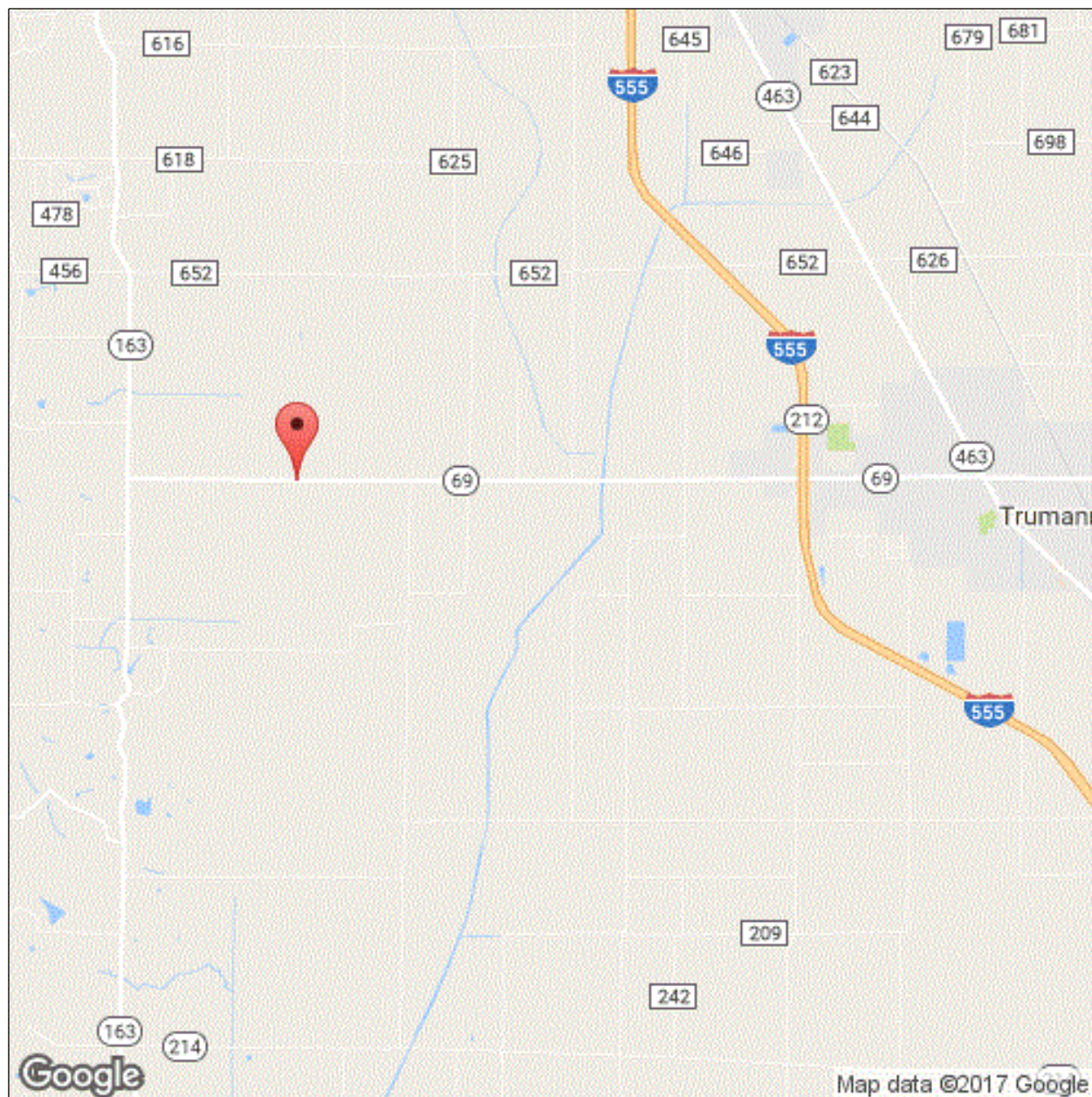
Latitude: 35.67822

Longitude: -90.63262

Structure Number: M1290

Facility Carried: SH 69-06- LM 1.51

Location Map



Latitude: 35.67822
Longitude: -90.63262

Inspector:

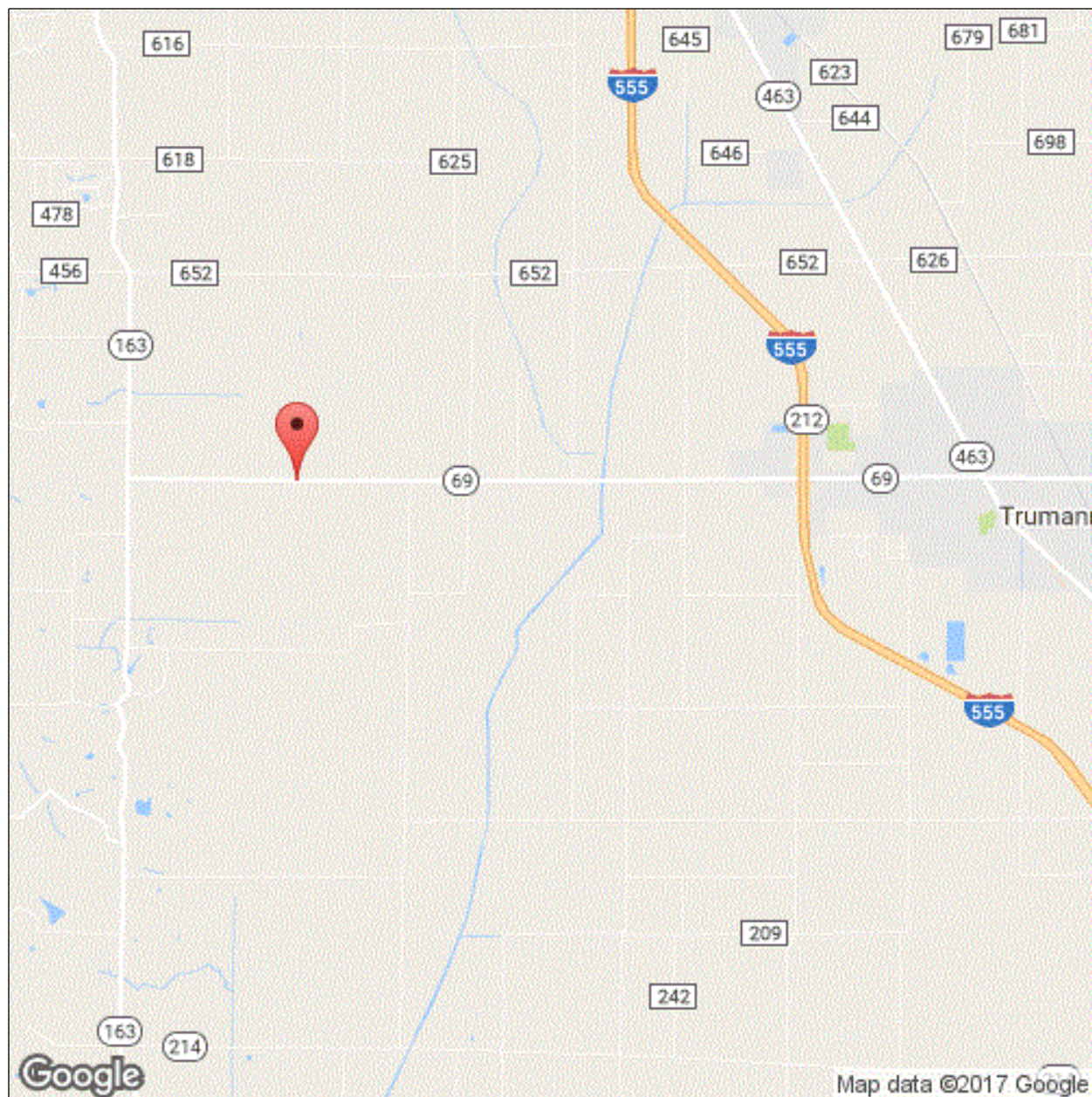
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Location Map



Latitude: 35.67822

Longitude: -90.63262

Inspector:

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Bridge Inspection Report

Executive Summary

Inspector:

Structure Number: M1290

Inspection Date:

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	04/03/2017
(8) STRUCTURE NUMBER	M1290	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 69 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	10 (3) COUNTY CODE 111	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	DITCH NO 7	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 69-06- LM 1.51		
(9) LOCATION	1.21 MI E JCT SH 163		
(11) MILEPOINT 1.510	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.67822	(17) LONGITUDE -90.63262		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	5
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(59) SUPERSTRUCTURE	4 (60) SUBSTRUCTURE 5
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 1	(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 1962	(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	60.0
(29) AVERAGE DAILY TRAFFIC 1700	(19) BYPASS DETOUR LENGTH 10	(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.) 34	(49) STRUCTURE LENGTH (ft.) 35	(67) STRUCTURAL EVALUATION	4
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0.5 RIGHT 0.5		(68) DECK GEOMETRY	3
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 23.2		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 24.2		(71) WATERWAY ADEQUACY	6
(32) APPROACH ROADWAY WIDTH (ft.) 24.0		(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.) 24.0		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	1 STATUS 47.2
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED 31	(75B) WORK DONE BY 1	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 58.0		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(94) BRIDGE IMPROVEMENT COST (\$) 0		(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	07
(95) ROADWAY IMPROVEMENT COST (\$) 117		(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST 237		(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE 2003		(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 2111	(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.	847	sq. ft.	802	0	45	0
1080 - Delamination/Spall/Patched Area		10				10	
1090 - Exposed Rebar		4				4	
1120 - Efflorescence/Rust Staining		11				11	
1130 - Cracking (RC and Other)		20				20	
510 - Wearing Surfaces		812	sq. ft.	602	0	210	0
3220 - Crack (Wearing Surface)		210				210	
107 - Steel Open Girder/Beam	1- Ben.	442	ft.	0	261	129	52
1000 - Corrosion		408			261	129	18
1900 - Distortion		34					34
515 - Steel Protective Coating		1804	sq. ft.	0	139	1065	600
3440 - Effectiveness (Steel Protective Coatings)		1804			139	1065	600
216 - Timber Abutment	1- Ben.	50	ft.	22	0	28	0
1140 - Decay/Section Loss		28				28	
228 - Timber Pile	1- Ben.	22	each	20	0	2	0
1140 - Decay/Section Loss		2				2	
333 - Other Bridge Railing	1- Ben.	70	ft.	34	0	34	2
7000 - Damage		36				34	2

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Bridge Inspection Report

Pictures

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Bridge Inspection Report

Sketches

Inspector:

Structure Number: M1290

Inspection Date:

Facility Carried: SH 69-06- LM 1.51

Bridge Inspection Report

Maintenance Needs

Date Reported: 4/7/2011 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Left and right Concrete Curbs and concrete deck has some deterioration and spalls with some rebar exposed.

Top of Deck with Asphalt Overlay has several minor size and density sealable cracks in asphalt, see 2017 photo.
(210sqft. cracks)

Bottom of Deck has some cracks with leakage and some with efflorescence.

Bottom of Deck has some honeycomb areas and some shelled out areas with rebar exposed.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

Structure Number: M1290

Inspection Date:

Facility Carried: SH 69-06- LM 1.51

Bridge Inspection Report

Maintenance Needs

Date Reported: 4/7/2011 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Majority of girders have areas of rust with sect. loss on top flange due to leakage thru deck.

1 ft. on ends of girders are rusted with 1/4 in. loss of sect. to web and bottom flange.

Girder 12, 10LF from Bent 2, is rusted with section loss with the right bottom flange having a knife edge, see 2017 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Inspector:

Inspection Date:

Structure Number: M1290

Facility Carried: SH 69-06- LM 1.51

Bridge Inspection Report

Maintenance Needs

Date Reported: 04/03/2017

Priority: C - Important

Work Code:

Deficiency Description:

Girder 13 at Bent 2 bottom flange is rusted with section loss with a 3/4in. x up to 3 1/2in. hole in left flange, see 2017 photo.

Right outside Girder 13 has an 18LF area rusted with section loss with the right bottom flange having a knife edge near mid span, see 2017 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Stage: Monitor



PHOTO 2 Description

Inspector:

Structure Number: M1290

Inspection Date:

Facility Carried: SH 69-06- LM 1.51

Bridge Inspection Report

Maintenance Needs

Date Reported: 4/7/2011 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Bent 2 Piles 2 & 4 has some decay and partially hollow, especially near ground line.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

Structure Number: M1290

Inspection Date:

Facility Carried: SH 69-06- LM 1.51

Bridge Inspection Report

Maintenance Needs

Date Reported: 4/7/2011 12:00:00 AM

Priority: C - Important

Work Code:

Deficiency Description:

Timber Back Wall Bent 2 is decayed and rotted with some section loss, see 2017 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Inspector:

Structure Number: M1290

Inspection Date:

Facility Carried: SH 69-06- LM 1.51

Bridge Inspection Report

Maintenance Needs

Date Reported: 4/10/2013 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

No Approach Guard Rails at Bridge ends.

No Log Mile Posting at Bridge ends.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

Structure Number: M1290

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Bridge Inspection Report

Maintenance Needs

Date Reported: 04/06/2015

Priority: D - Routine

Work Code:

Deficiency Description:

Left & Right Bridge Rail Post near Bent 2 is broken. (2 post broke)

Left Bridge Rail and 5 Timber Post are leaning and pulled away from Concrete Curb, see 2017 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description

Inspector:

Structure Number: M1290

Inspection Date:

Facility Carried: SH 69-06- LM 1.51

Bridge Inspection Report

Maintenance Needs

Date Reported: 04/03/2017

Priority: B - Pressing; 6 month completion goal

Work Code:

Deficiency Description:

Girder 2 over Bent 1 has a 10in. x 1in. hole in bottom of web and beginning to crush, see 2017 photo.

Girder 12 over Bent 1 has a 7in. x up to a 3in. hole in bottom of web, see 2017 photo.

Girder 12 over Bent 2 has a 9in. x up to a 1 1/2in. hole in bottom of web, see 2017 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

will monitor - Bridge Crew is busy on other repairs at this time - KAW

Stage: Open



PHOTO 1 Description

Stage: Open



PHOTO 2 Description

Inspector:

Inspection Date:

Structure Number: M1290

Facility Carried: SH 69-06- LM 1.51

Bridge Inspection Report

Maintenance Needs

Stage: Open



PHOTO 3 Description

Inspector:

Structure Number: M1290

Inspection Date:

Facility Carried: SH 69-06- LM 1.51

Bridge Inspection Report

Maintenance Needs

Date Reported: 04/03/2017

Priority: B - Pressing; 6 month completion goal

Work Code:

Deficiency Description:

Left side of Bridge, outside Girder 1, is twisted and bowed from collision damage from railing and timber post causing the top of girder being pulled out from under concrete deck with only 2in. supporting concrete near mid span; Girder is moving under truck traffic, see 2017 photo.

Work Description:

Date Repairs Completed:

Maintenance Comments:

will review for motion and loss of orientation, but will have to delay permanent repairs until bridge crew completes ongoing projects.-KAW

Stage: Open



PHOTO 1 Description

Stage: Open



PHOTO 2 Description

Inspector:

Inspection Date:

Structure Number: M1290

Facility Carried: SH 69-06- LM 1.51

Bridge Inspection Report

Maintenance Needs

Stage: Open



PHOTO 3 Description

Stage: Open



PHOTO 4 Description