

Bridge Inspection Report

03813
SH 53 S-0 LM 16.36
over
I 30Sec14 Log62.84



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

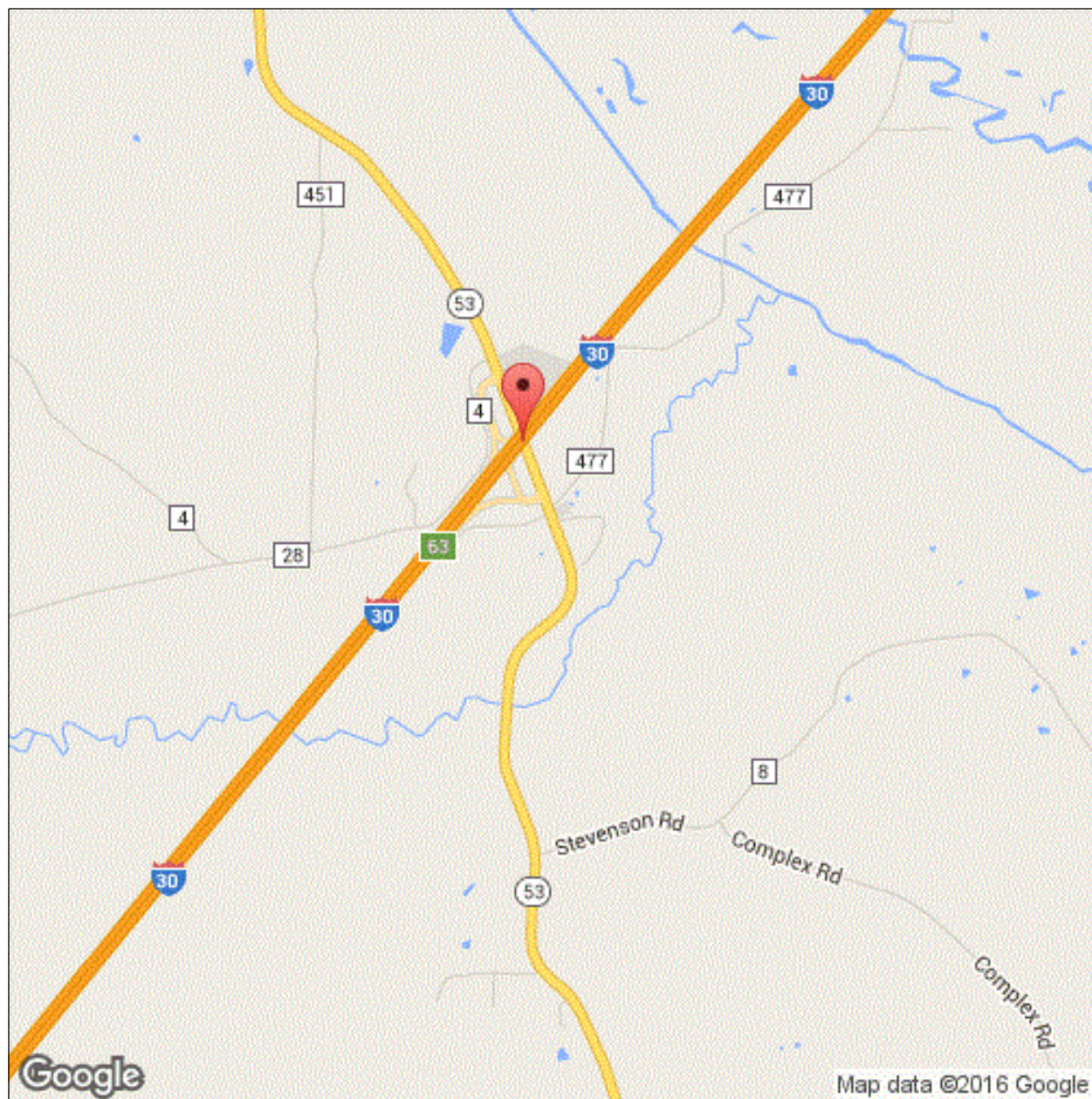
Structure Number: 03813

Inspection Date:

Facility Carried: SH 53 S-0 LM 16.36

Bridge Inspection Report

Location Map



Latitude: 33.99729

Longitude: -93.18402

Inspector:

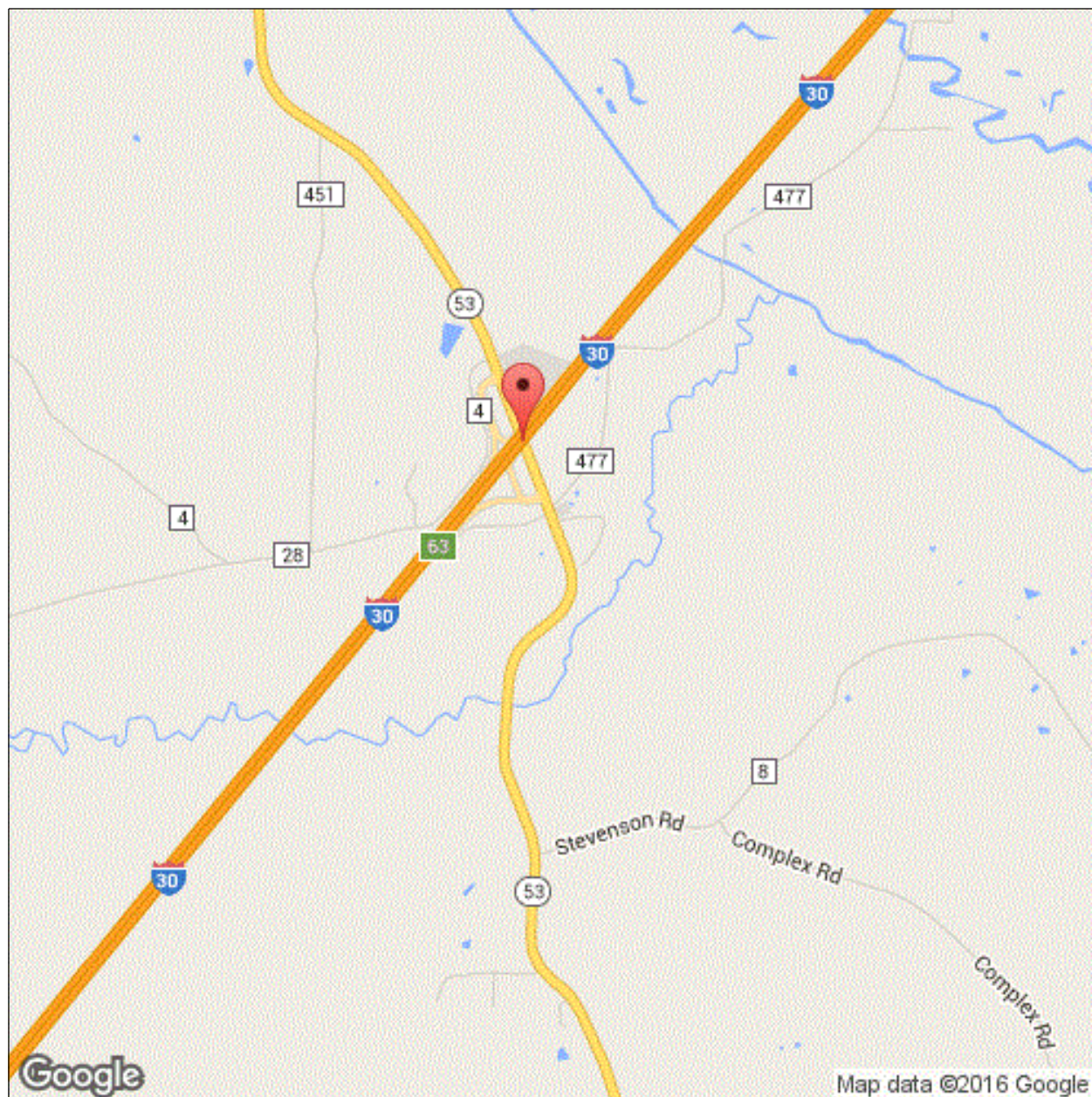
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Executive Summary

Drawing numbers 12474,12475,15020B,15020,12482
03/29/2018 JPR -- This structure is logged from North to South.

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National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	03/29/2018
(8) STRUCTURE NUMBER	03813	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 53 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	07 (3) COUNTY CODE 019	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	I 30Sec14 Log62.84	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 53 S-0 LM 16.36		
(9) LOCATION	5.53 MI SE JCT SH 51		
(11) MILEPOINT 16.360	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000053000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 33.99729	(17) LONGITUDE -93.18402		
(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 7	(60) SUBSTRUCTURE 6
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(61) CHANNEL & CHANNEL PROTECTION	N (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 4	(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 1966	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	4
(42) TYPE OF SERVICE ON 6 UNDER 1		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 06		(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC 590	(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.) 85	(49) STRUCTURE LENGTH (ft.) 267	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	5
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 25.9		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	3
(52) DECK WIDTH, OUT-TO-OUT (ft.) 29		(71) WATERWAY ADEQUACY	N
(32) APPROACH ROADWAY WIDTH (ft.) 29.9		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 35	(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.) 71.2		36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.) H 16.90		36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) H 5.9		(113) SCOUR CRITICAL BRIDGES	N
(56) MIN LATERAL UNDER CLEARANCE (ft.) 28.2		SUFFICIENCY RATING 83.0	STATUS 2
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED 33	(75B) WORK DONE BY 1	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 267.0		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	06
(95) ROADWAY IMPROVEMENT COST (\$)	187	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	375	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2002	(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 1448	(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	N
		(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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Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	7743	sq. ft.	3175	1084	3484	0
Numerous spalls , patches etc. Some patched areas are up to 1/4 of a spans total deck area.							
1080 - Delamination/Spall/Patched Area		3484				3484	
1130 - Cracking (RC and Other)		542			542		
1190 - Abrasion/Wear (PSC/RC)		542			542		
107 - Steel Open Girder/Beam	1- Ben.	1335	ft.	1215	120	0	0
Girder ends rusty , areas exposed to water and roadway salts are the worst. Freckled rust spots without.							
1000 - Corrosion		120			120		
515 - Steel Protective Coating		11500	sq. ft.	0	11500	0	0
3410 - Chalking (Steel Protective Coatings)		11500			11500		
205 - Reinforced Concrete Column	1- Ben.	6	each	5	0	1	0
Column 2 bent 3 has a large spall(6') with exposed steel no section loss.							
1080 - Delamination/Spall/Patched Area		1				1	
215 - Reinforced Concrete Abutment	1- Ben.	58	ft.	58			
234 - Reinforced Concrete Pier Cap	1- Ben.	87	ft.	72	0	15	0
1080 - Delamination/Spall/Patched Area		15				15	
303 - Assembly Joint with Seal	1- Ben.	145	ft.	145			
311 - Movable Bearing	1- Ben.	20	each	20			
313 - Fixed Bearing	1- Ben.	20	each	20			
321 - Reinforced Concrete Approach Slab	1- Ben.	1440	sq. ft.	1440			

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Pictures

PHOTO 2

Description

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Sketches

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Maintenance Needs

Date Reported: 03/29/2018

Priority: C - Important

Work Code:

Deficiency Description:

Deck - All spans

Numerous shelled and pitted areas. Several patched potholes are losing bond, also numerous sealable cracks
03/29/2018 JPR -- Span 1 has numerous potholes that have been patched with cold mix.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Deck, span 4 both lanes, with the worst being in the south bound Rt. lane.

Stage: Monitor



PHOTO 2 Description Deck, Spans 1 & 2, looking north against log, have numerous pot holes that are patched with cold mix both lanes.

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Maintenance Needs

Date Reported: 03/29/2018

Priority: C - Important

Work Code:

Deficiency Description:

Spalls in deck soffit @ construction joints of Spans 1 & 4, with exposed steel.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Spall in Soffit span 1 @ construction joint.

Stage: Open



PHOTO 2 Description Spall in Soffit span 4, @ construction joint