

Bridge Inspection Report

M1477
SH 80-Scott Co.
over
Freedom Creek



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

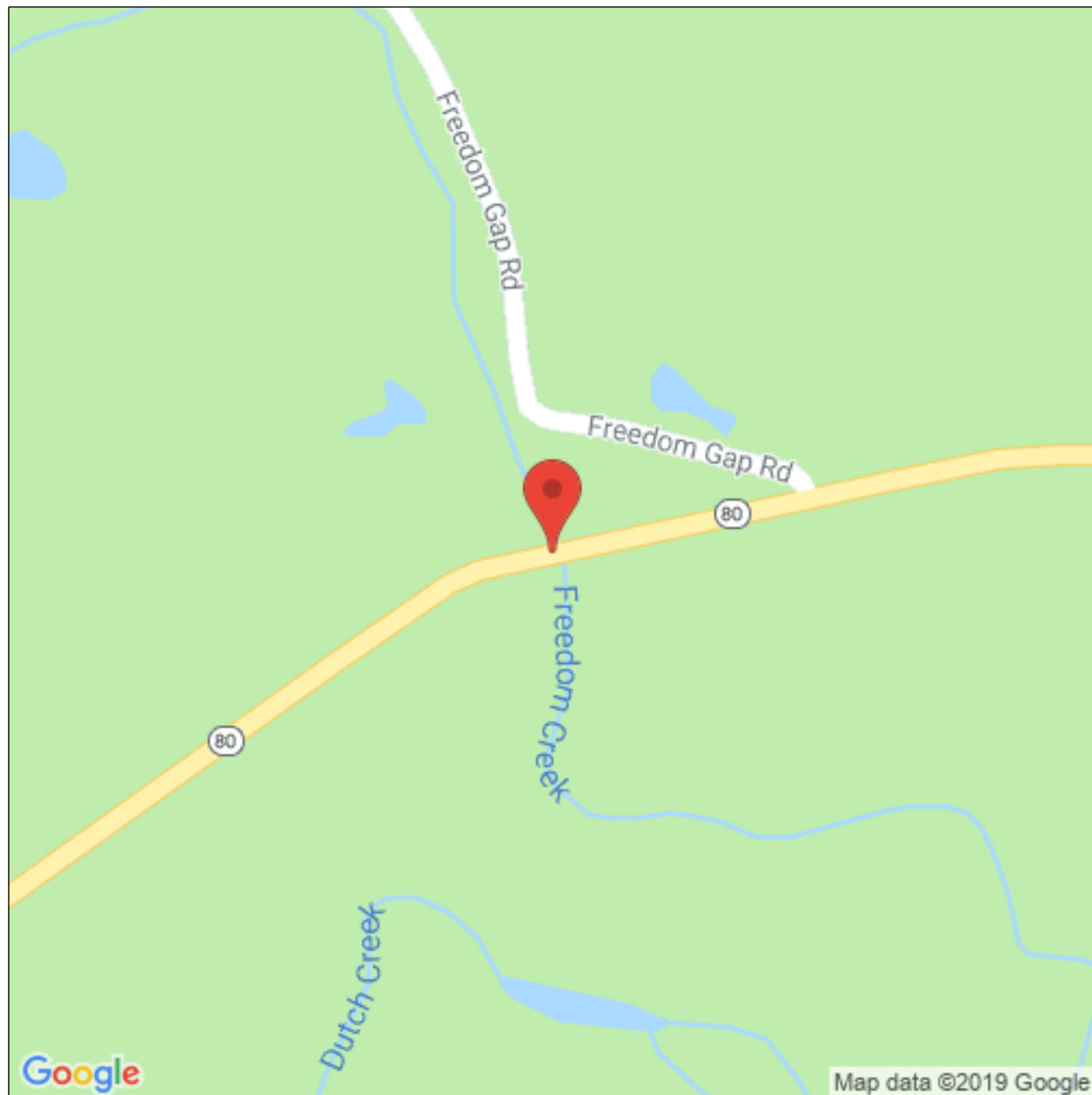
Structure Number: M1477

Inspection Date:

Facility Carried: SH 80-Scott Co.

Bridge Inspection Report

Location Map



Latitude: 34.93922

Longitude: -93.76062

Inspector:

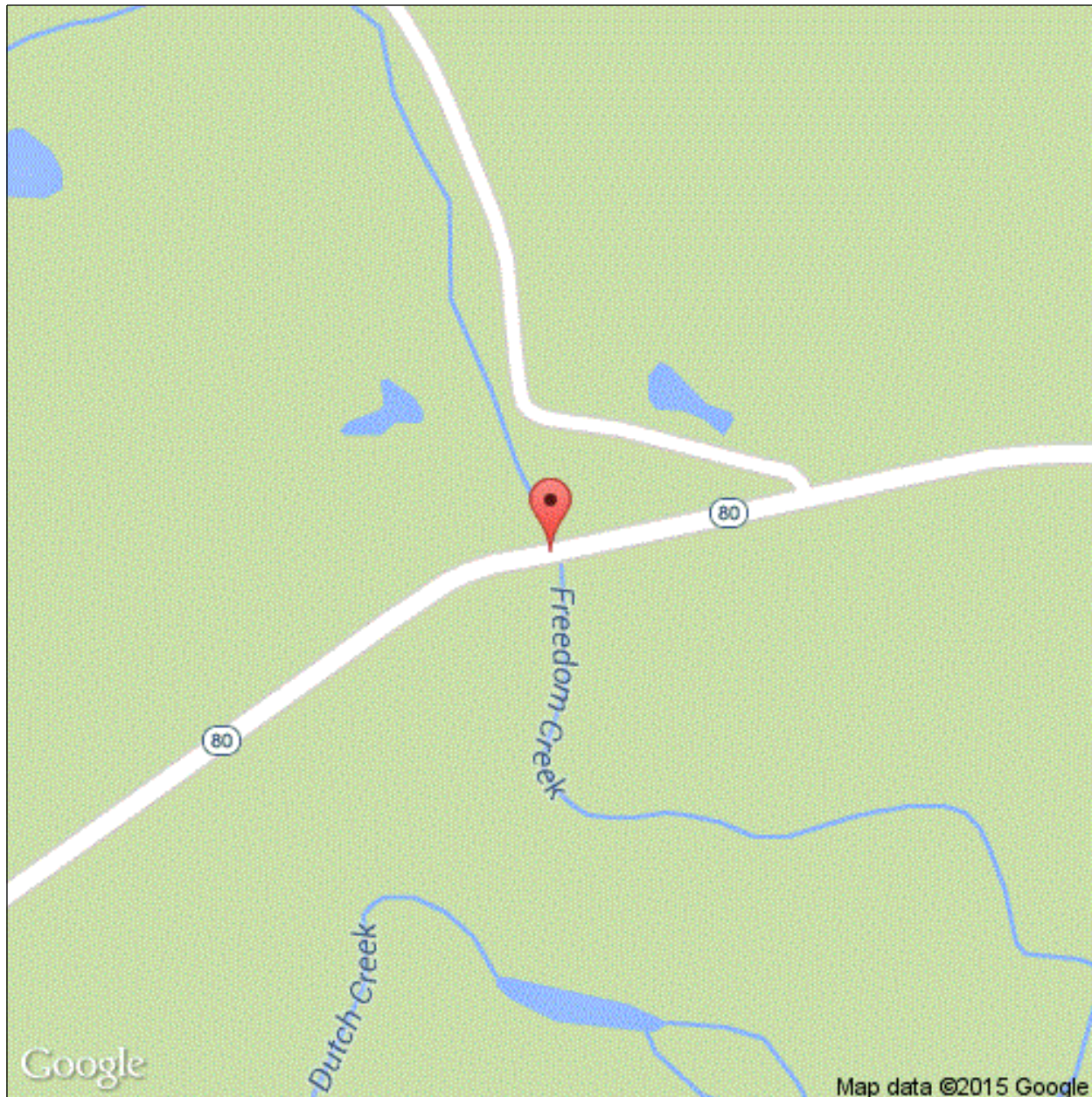
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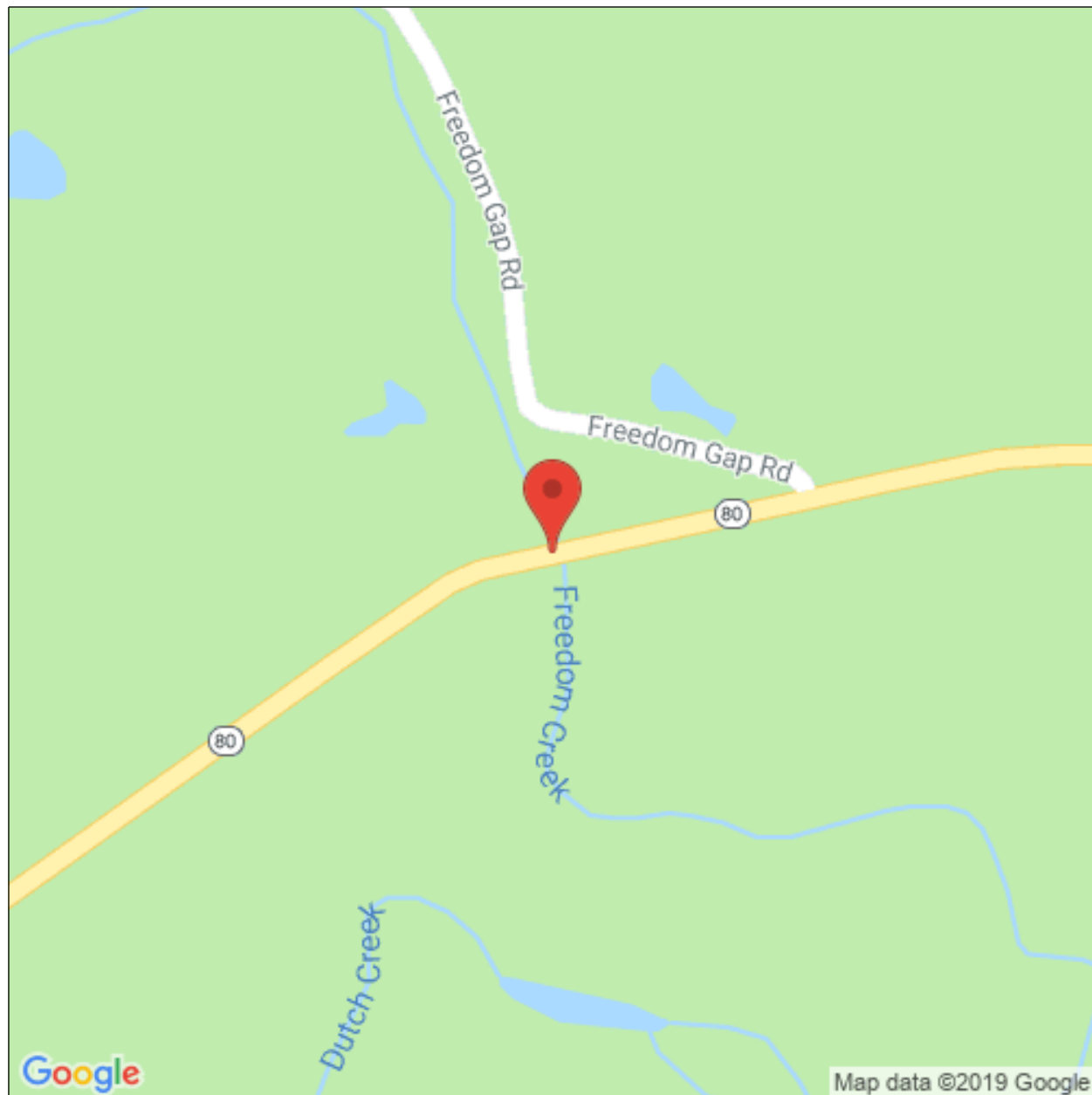
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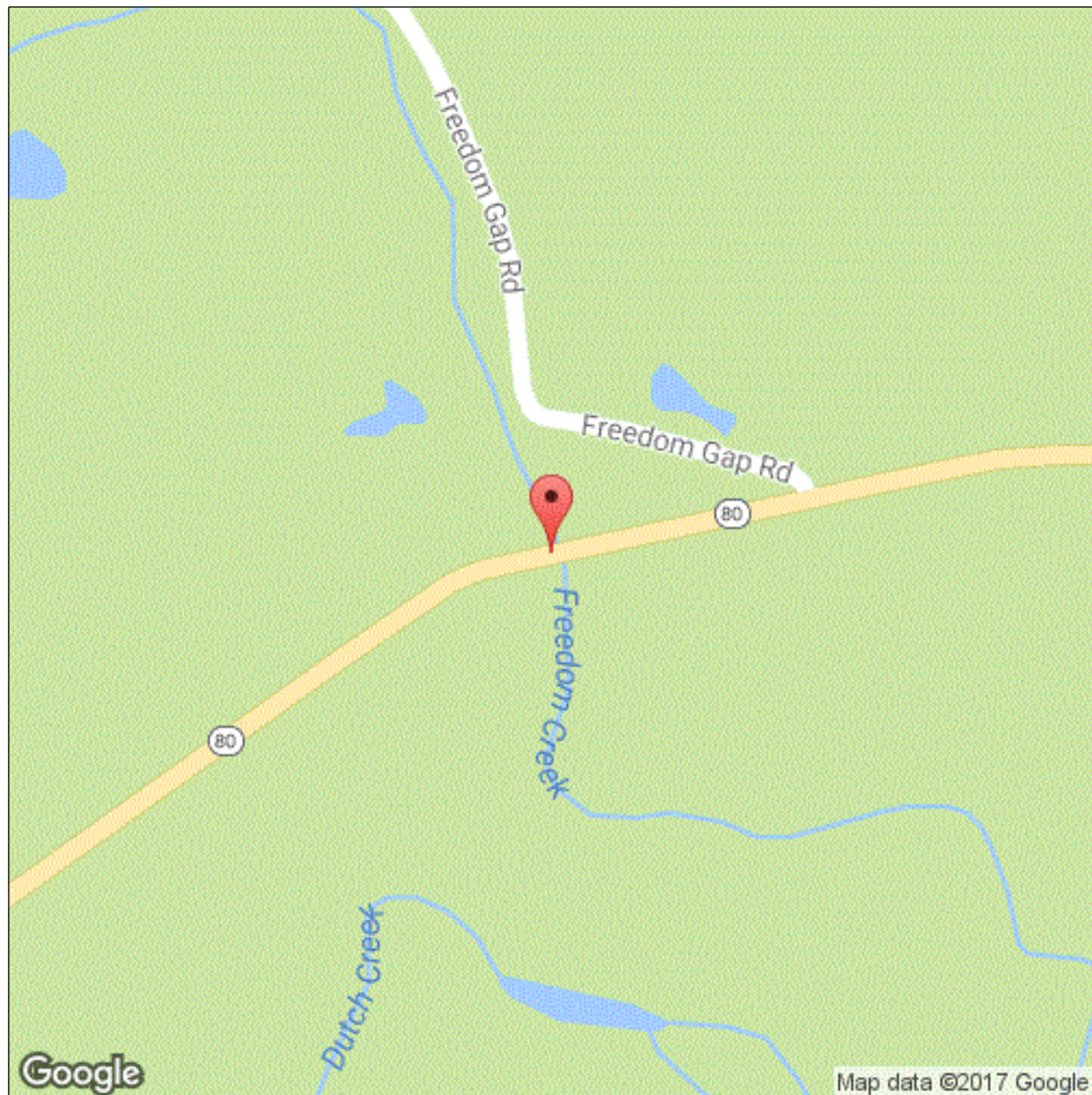
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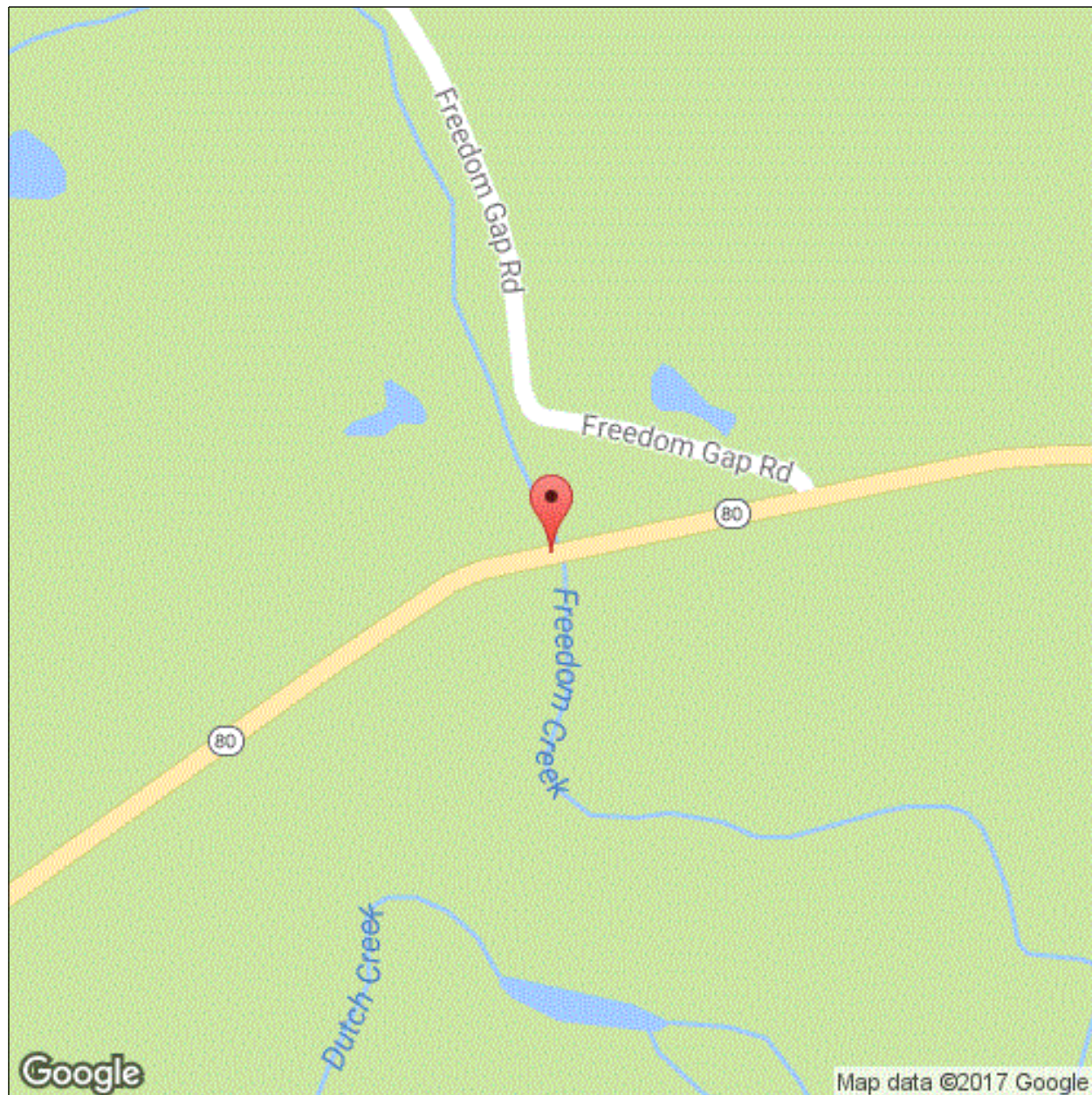
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Executive Summary

03/25/2019 - EJW & JPW - Underwater Type 2 Inspections conducted on this date.

Underwater Type 2 Inspection: Wading and probing indicate the footings have cover at this inspection with no apparent scour problems at this inspection.

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	03/25/2019
(8) STRUCTURE NUMBER	M1477	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 80 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	04 (3) COUNTY CODE 127	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Freedom Creek	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 80-Scott Co.		
(9) LOCATION	3.4 MI SW YELL CO LINE		
(11) MILEPOINT 19.825	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 34.93922	(17) LONGITUDE -93.76062		
(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: 1 - Concrete		(59) SUPERSTRUCTURE	5
B) TYPE OF DESIGN/CONSTR: 01 - Slab		(60) SUBSTRUCTURE	6
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	5
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN	3 (46) NUMBER OF APPROACH		
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE		
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION		
	0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1941 (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	39.0
(29) AVERAGE DAILY TRAFFIC	540 (19) BYPASS DETOUR LENGTH	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(66) INVENTORY RATING	23.0
(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.)	22 (49) STRUCTURE LENGTH (ft.)	(67) STRUCTURAL EVALUATION	5
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0.5 RIGHT 0.5	(68) DECK GEOMETRY	4
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	22.0	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	22.1	(71) WATERWAY ADEQUACY	6
(32) APPROACH ROADWAY WIDTH (ft.)	21.0	(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.)	21.0	36B) TRANSITIONS:	0
(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	58.0 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	671 (115) YEAR OF FUTURE ADT	(103) TEMP STRUCTURE	
	2028	(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	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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Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
38 - Reinforced Concrete Slab	1- Ben.	1292	sq. ft.	129	1119	44	0
-Deck has light scale with a few minor pop outs. -There are vertical hairline flexure cracks at approximately 12" centers that are visible in the edge of the deck. -The undersurface of deck has isolated areas of honeycomb. -There is a longitudinal crack near the center of roadway in Spans 1 & 2 visible from both top and bottom of deck. -The undersurface of the deck has several repairs have been made to cover exposed reinforcing steel with caulking where the concrete has spalled out. -New areas of spalling and delamination adjacent to repaired areas and in the Lt edge of Span 1. Span s 2 & 3 have baseball size spalling with exposed reinforcing steel.							
1080 - Delamination/Spall/Patched Area		0		0	0	0	0
1090 - Exposed Rebar		2		0	0	2	0
1130 - Cracking (RC and Other)		112		0	70	42	0
1190 - Abrasion/Wear (PSC/RC)		1049		0	1049	0	0
210 - Reinforced Concrete Pier Wall	1- Ben.	44	ft.	0	44	0	0
-Light abrasion typical at the base of the pier walls.							
1190 - Abrasion/Wear (PSC/RC)		44		0	44	0	0
215 - Reinforced Concrete Abutment	1- Ben.	64	ft.	59	5	0	0
-Stacked rock at Bent 1, adjacent to the North wing wall, has lost a few rocks and is pulling away from the wing. -Minor erosion at Bent 4, wing walls. -Diagonal cracks in the wing walls at the inlet end of structure.							
1130 - Cracking (RC and Other)		5		0	5	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	45	ft.	33	6	6	0
-Spalling at Bents 2 & 3 with exposed reinforcing steel. The exposed reinforcing steel appears to have little concrete cover from the construction process. -Caulking used to cover exposed reinforcing steel in the past is peeling at Bent 3.							
1080 - Delamination/Spall/Patched Area		3		0	3	0	0
1090 - Exposed Rebar		6		0	0	6	0
1130 - Cracking (RC and Other)		3		0	3	0	0
301 - Pourable Joint Seal	1- Ben.	45	ft.	45	0	0	0
-No apparent problems at this Inspection.							

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Element Inspection

331 - Reinforced Concrete Bridge Railing	1- Ben.	130	ft.	129	1	0	0
-There is one crack in the base of a guardrail post in the Lt side of Span 1 post # 2.							
1130 - Cracking (RC and Other)		1		0	1	0	0

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Bridge Inspection Report

Pictures

PHOTO 2

Description

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Bridge Inspection Report

Sketches

Inspector:

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Inspection Date:

Facility Carried: SH 80-Scott Co.

Bridge Inspection Report

Maintenance Needs

Date Reported: 03/03/2015

Priority: D - Routine

Work Code:

Deficiency Description:

Superstructure

The undersurface of Span # 2 & 3 has an area of shallow spalling with exposed reinforcing steel adjacent to Bent # 2 & 3.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Span # 2 & 3 shallow spalling with exposed reinforcing steel on the undersurface of the slab.

Inspector:

Structure Number: M1477

Inspection Date:

Facility Carried: SH 80-Scott Co.

Bridge Inspection Report

Maintenance Needs

Date Reported: 4/16/2013 12:00:00 AM

Priority: G - General/ Preventive maintenance

Work Code:

Deficiency Description:

Deck/superstructure in spans # 1 and # 2 -

The deck/superstructure has sealable longitudinal cracking in spans # 1 and # 2 that are visible in the driving surface and in the undersurface suggesting full depth cracking. The undersurface has staining along the cracks that indicate corrosion of the reinforcing steel.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Sealable deck cracking.

Inspector:

Structure Number: M1477

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Bridge Inspection Report

Maintenance Needs

Date Reported: 4/16/2013 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Substructure

Bents # 2 & 3 pier walls have areas of spalling with exposed reinforcing steel.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Bent # 2 Span # 2 spalling with exposed reinforcing steel.

Stage: Monitor



PHOTO 2 Description Bent # 2 Lt spalling with exposed reinforcing steel.

Inspector:

Inspection Date:

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Maintenance Needs

Stage: Monitor



PHOTO 3 Description Bent # 3 Span # 2 spalling with exposed reinforcing steel.

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Bridge Inspection Report

Maintenance Needs

Date Reported: 03/03/2015

Priority: C - Important

Work Code:

Deficiency Description:

Substructure

Some erosion with loss of rip-rap adjacent to the wing walls

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description Minor erosion at Bent 4, wing walls. Bent 4 Lt pictured.

Stage: Open



PHOTO 2 Description Some erosion with loss of riprap adjacent to the wingwalls photo of southeast wingwall.

Inspector:

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Maintenance Needs

Stage: Monitor



PHOTO 3 Description Minor erosion at Bent 4, wing walls.
Bent 4 Rt pictured.

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Maintenance Needs

Date Reported: 03/25/2019

Priority: D - Routine

Work Code:

Deficiency Description:

Approach Roadway

The ACHM at the East approach is breaking apart and has settled adjacent to the end bent.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Asphalt settlement and deterioration at the east approach.