

Bridge Inspection Report

B6879
I-540 NB Lanes
over
Clayton Branch-Seb. Co.



Inspection Date:

Inspected By:

Inspection Type(s):

TABLE OF CONTENTS

	PAGE NUMBER
LOCATION MAP	3
NATIONAL BRIDGE INVENTORY	7
ELEMENTS	8
PICTURES	9
SKETCHES	10

Inspector:

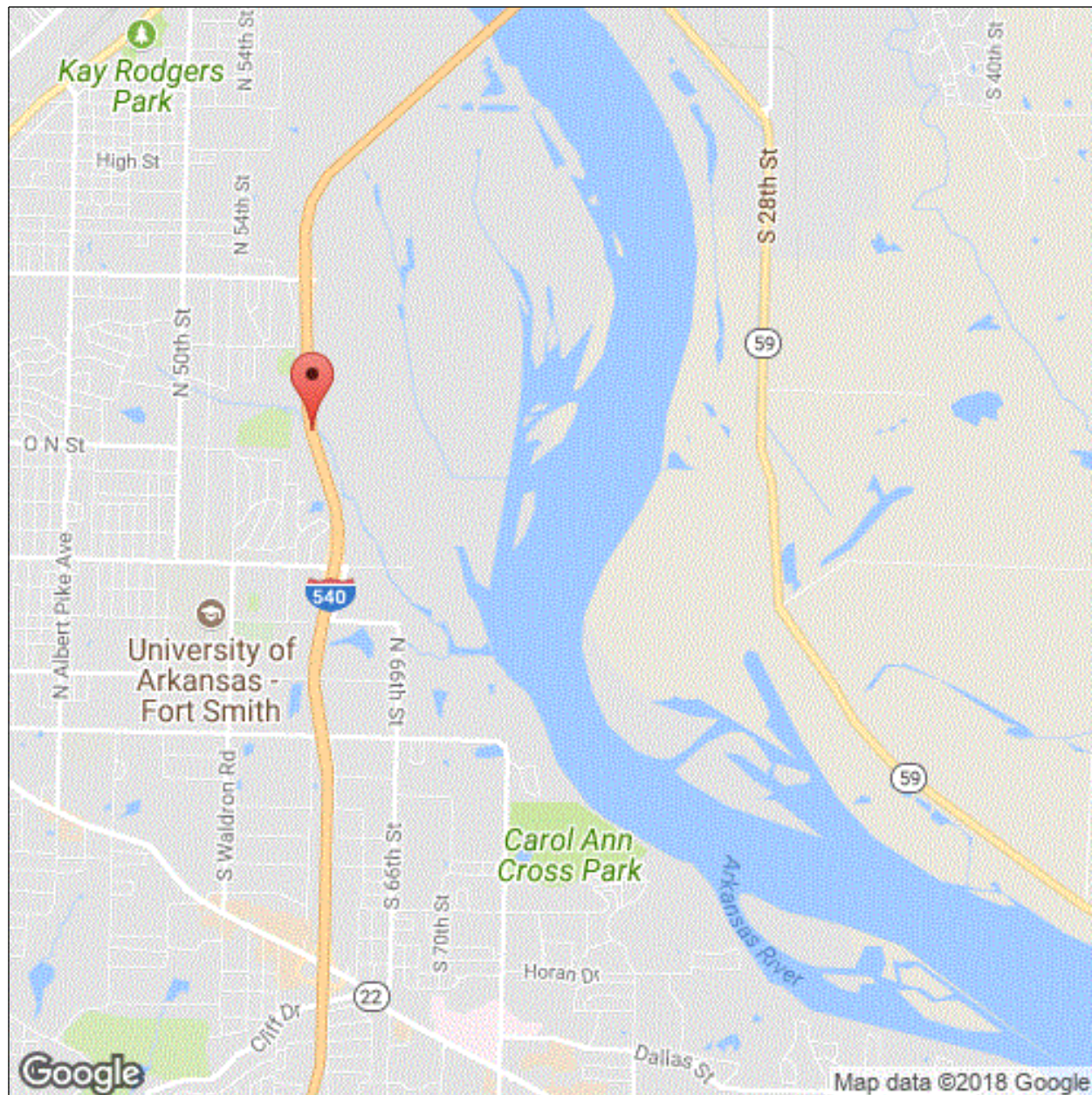
Structure Number: B6879

Inspection Date:

Facility Carried: I-540 NB Lanes

Bridge Inspection Report

Location Map



Latitude: 35.39378

Longitude: -94.36581

Inspector:

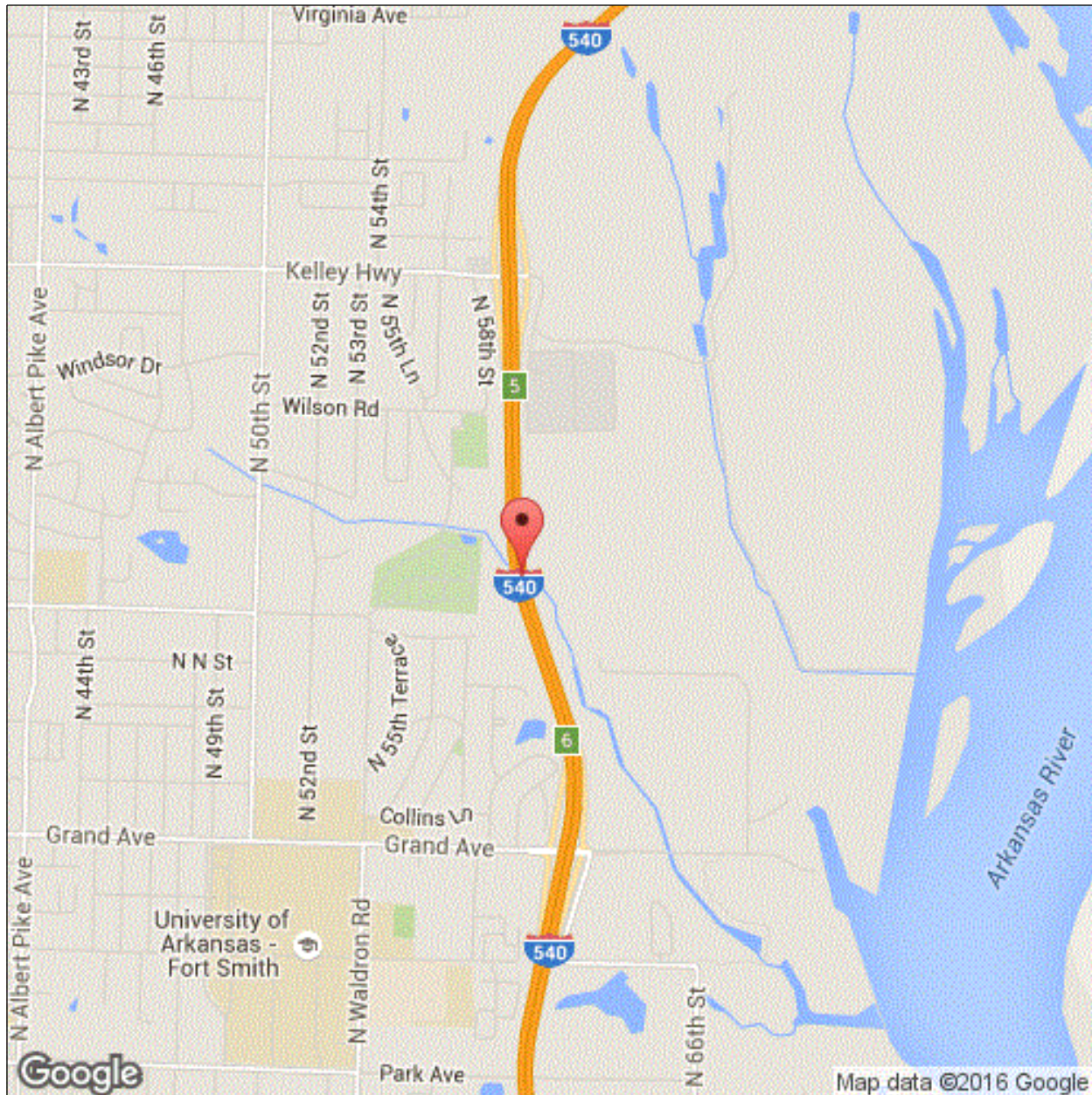
Structure Number: B6879

Inspection Date:

Facility Carried: I-540 NB Lanes

Bridge Inspection Report

Location Map



Latitude: 35.39378

Longitude: -94.36581

Inspector:

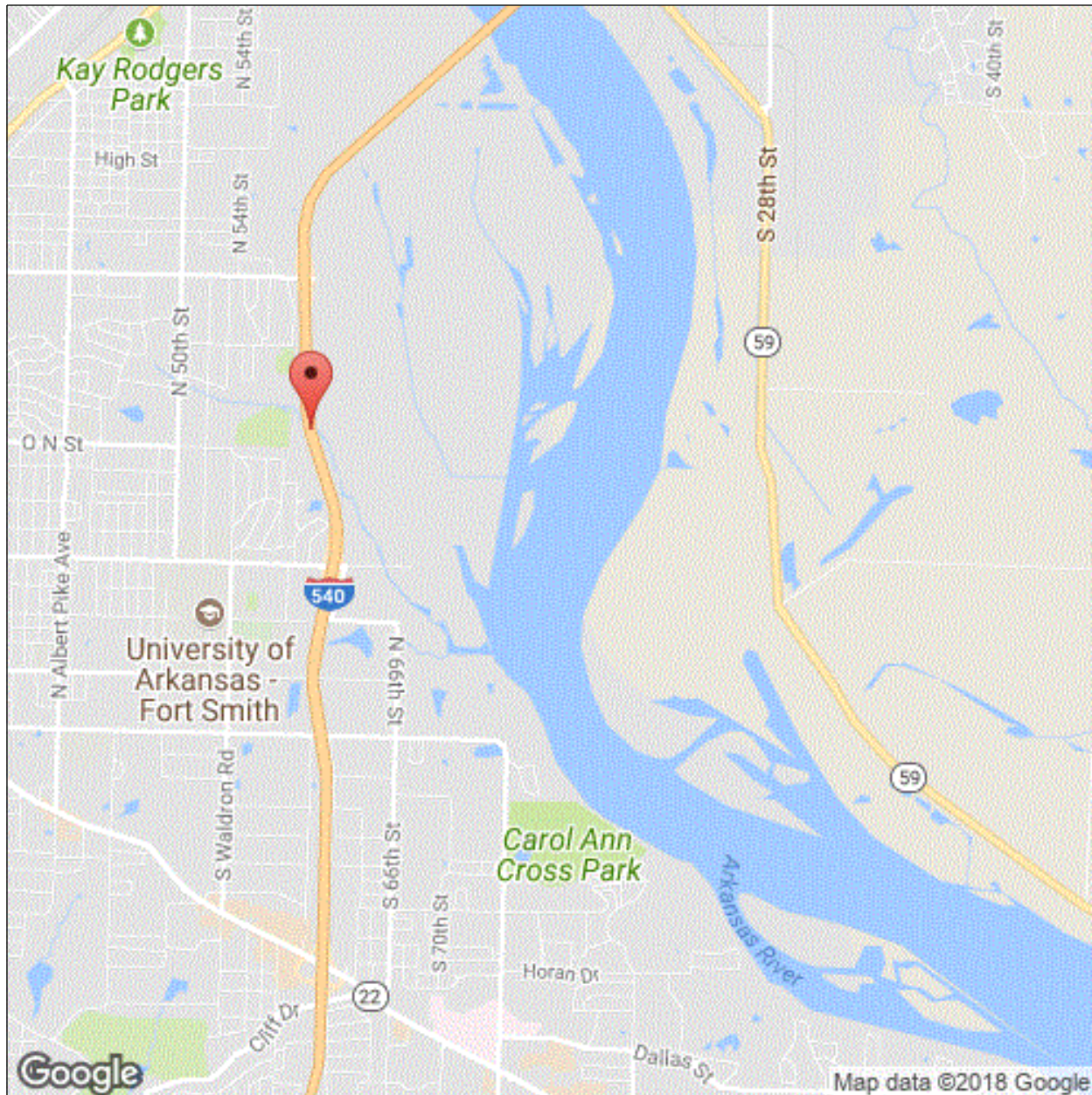
Structure Number: B6879

Inspection Date:

Facility Carried: I-540 NB Lanes

Bridge Inspection Report

Location Map



Latitude: 35.39378

Longitude: -94.36581

Inspector:

Structure Number: B6879

Inspection Date:

Facility Carried: I-540 NB Lanes

Bridge Inspection Report

Executive Summary

02/13/ 2018 JPB & SPC-Routine Inspection conducted on this date.

02/08/2016 - JCJ & JML - Type 2 Underwater Inspection - Visual observation during low water conditions indicate that there are no exposed footings with no apparent scour problems at this inspection.

Inspector:

Structure Number: B6879

Inspection Date:

Facility Carried: I-540 NB Lanes

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	02/13/2018
(8) STRUCTURE NUMBER	B6879	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 1 1 540 1	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	04 (3) COUNTY CODE 131	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	24060	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	Clayton Branch-Seb. Co.	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	I-540 NB Lanes		
(9) LOCATION	9.14 Mi N. OK State Line		
(11) MILEPOINT 9.140	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000540010 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.39378	(17) LONGITUDE -94.36581		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	8
A) KIND OF MATERIAL/DESIGN: 4 - Steel continuous		(59) SUPERSTRUCTURE	8 (60) SUBSTRUCTURE 8
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(61) CHANNEL & CHANNEL PROTECTION	8 (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 2014	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	6
(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 51000	(19) BYPASS DETOUR LENGTH 1	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2013		(66) INVENTORY RATING	36.0
(109) AVERAGE DAILY TRUCK TRAFFIC 12		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 53	(49) STRUCTURE LENGTH (ft.) 162.1	(67) STRUCTURAL EVALUATION	8
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0 RIGHT 0		(68) DECK GEOMETRY	5
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 40.0		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 43.2		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 37.4		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 45	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99	36A) BRIDGE RAILINGS:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.) 40.4		36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.90		36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.) N 0		36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) N 99		(113) SCOUR CRITICAL BRIDGES	5
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		SUFFICIENCY RATING	0 STATUS 92.2
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(94) BRIDGE IMPROVEMENT COST (\$)		(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	11
(95) ROADWAY IMPROVEMENT COST (\$)		(100) STRAHNET HIGHWAY DESIGNATION	1
(96) TOTAL PROJECT COST		(101) PARALLEL STRUCTURE DESIGNATION	R
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 37560	(115) YEAR OF FUTURE ADT 2028	(103) TEMP STRUCTURE	
		(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	1
		(20) TOLL	3
		(21) MAINTENANCE RESPONSIBILITY	01
		(22) OWNER	01
		(37) HISTORICAL	4
		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: B6879

Inspection Date:

Facility Carried: I-540 NB Lanes

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.	6863	sq. ft.	6815	48	0	0
	-Transverse hairline cracks with efflorescence that appear to correspond with the joints in the parapet wall are visible from the undersurface of the overhang. -The driving surface of the deck has a new epoxy seal overlay that covers the entire deck.						
1120 - Efflorescence/Rust Staining		48			48		
510 - Wearing Surfaces		6863	sq. ft.	6863			
107 - Steel Open Girder/Beam	1- Ben.	956	ft.	956			
	-A588 weathering steel with no apparent noteworthy deficiencies at this inspection.						
515 - Steel Protective Coating		6493	sq. ft.	6493			
205 - Reinforced Concrete Column	1- Ben.	6	each	6			
215 - Reinforced Concrete Abutment	1- Ben.	116	ft.	79	37	0	0
	-There are 3 vertical hairline cracks in the back wall of Bent 1. -There are 2 vertical hairline cracks in the back wall of Bent 4. -The top of the back walls on the driving surface have transverse cracking at both bridge ends.						
1130 - Cracking (RC and Other)		37			37		
234 - Reinforced Concrete Pier Cap	1- Ben.	116	ft.	116			
300 - Strip Seal Expansion Joint	1- Ben.	122	ft.	122			
310 - Elastomeric Bearing	1- Ben.	24	each	24			
321 - Reinforced Concrete Approach Slab	1- Ben.	2960	sq. ft.	2944	16	0	0
	-There are 2 transverse cracks in the approach gutter adjacent to Bent 1.						
1130 - Cracking (RC and Other)		16			16		
331 - Reinforced Concrete Bridge Railing	1- Ben.	324	ft.	313	11	0	0
	There are minor hairline vertical cracks on the bridge parapet walls.						
1130 - Cracking (RC and Other)		11			11		

Inspector:

Inspection Date:

Structure Number: B6879

Facility Carried: I-540 NB Lanes

Bridge Inspection Report

Pictures

Inspector:

Inspection Date:

Structure Number: B6879

Facility Carried: I-540 NB Lanes

Bridge Inspection Report

Sketches

Inspector:

Inspection Date:

Structure Number: B6879

Facility Carried: I-540 NB Lanes

Bridge Inspection Report

Maintenance Needs