



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection - Contract

COUNTY WAKE BRIDGE NUMBER 910494 INSPECTION CYCLE 0 YRS
ROUTE SR1670 ACROSS CRABTREE CREEK M.P. 0

LOCATION 0.1 MI.N.JCT.SR1760

SUPERSTRUCTURE RC FLOOR/I-BEAMS

SUBSTRUCTURE ABUT.1:RC FULL HT;IBTS:RCP&B;EBT.2:RCCAP/H-PILES.

SPANS 4@62'6

LONGITUDE 78° 40' 29.60"

LATITUDE 35° 50' 12.22"

INSPECTION DATE 04/04/2014

PRESENT CONDITION FAIR

PRESENT POSTING Y **WT LIMIT 41 TON** PROPOSED POSTING _____

OTHER SIGNS PRESENT NONE



LOOKING NORTH

Fracture Critical	<u>No</u>
Temporary Shoring	<u>No</u>
Scour Critical	<u>No</u>
Scour POA	<u>No</u>

SIGN NOTICE ISSUED FOR	NUMBERED REQUIRED
<u>No</u> WEIGHT LIMIT	_____
<u>No</u> DELINEATORS	_____
<u>No</u> NARROW BRIDGE	_____
<u>No</u> ONE LANE BRIDGE	_____
<u>No</u> LOW CLEARANCE	_____

NATIONAL BRIDGE INVENTORY----- STRUCTURE INVENTORY AND APPRAISAL

Run Date: 05/22/2014

IDENTIFICATION				CLASSIFICATION			
(1) STATE NAME -NORTH CAROLINA	BRIDGE	910494		SUFFICIENCY RATING =		75.36	
(8) STRUCTURE NUMBER(FEDERAL)		000000001830494		STATUS =	Not Deficient		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31016700					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		1					
(3) COUNTY CODE	183	(4) PLACE CODE	55000	(112)NBIS BRIDGE SYSTEM -		YES	
(6) FEATURE INTERSECTED -	CRABTREE CREEK			(104)HIGHWAY SYSTEM	Is not on NHS	0	
(7) FACILITY CARRIED	SR1670			(26) FUNCTIONAL CLASS -	Collector	17	
(9) LOCATION	0.1 MI.N. OF JCT.SR1760			(100)STRAHNET HIGHWAY -	Not a STRAHNET Route	0	
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE -	No Parallel Structure	N	
(16)LAT	35° 50' 12.22"	(17)LONG	78° 40' 29.60"	(102)DIRECTION OF TRAFFIC -	2-way Traffic	2	
(98)BORDER BRIDGE STATE CODE		PCT SHARE		(103)TEMPORARY STRUCTURE -			
(99)BORDER BRIDGE STRUCTURE NO				(110)DESIGNATED NATIONAL NETWORK -	Not on the National Network	0	
				(20) TOLL	On Free Road	3	
				(31) MAINTAIN -	State Highway Agency	01	
				(22) OWNER -	State Highway Agency	01	
				(37) HISTORICAL SIGNIFICANCE -	Not Eligible	5	
STRUCTURE TYPE AND MATERIAL				CONDITION			
(43) STRUCTURE TYPE MAIN:	Steel			(58) DECK		7	
TYPE -	Stringer Multibeam or Girder	CODE	302	(59) SUPERSTRUCTURE		5	
(44) STRUCTURE TYPE APPR :				(60) SUBSTRUCTURE		5	
TYPE -		CODE	000	(61) CHANNEL & CHANNEL PROTECTION		6	
(45) NUMBER OF SPANS IN MAIN UNIT			4	(62) CULVERTS		N	
(46) NUMBER OF APPROACH SPANS							
(107)DECK STRUCTURE TYPE -	1	CODE		LOAD RATING AND POSTING			
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(31) DESIGN LOAD	HS 15	3	
(A) TYPE OF WEARING SURFACE -		CODE		(63) OPERATING RATING METHOD -	Load Factor	1	
(B) TYPE OF MEMBRANE -		CODE		(64) OPERATING RATING -	HS-24	44	
(C) TYPE OF DECK PROTECTION -		CODE		(65) INVENTORY RATING METHOD -	Load Factor	1	
				(66) INVENTORY RATING -	HS-14	26	
				(70) BRIDGE POSTING -	Posting Required	4	
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED		P	
				DESCRIPTION -	Posted for Load		
AGE AND SERVICE				APPRAISAL			
(27) YEAR BUILT			1967	(67) STRUCTURAL EVALUATION		5	
(106)YEAR RECONSTRUCTED				(68) DECK GEOMETRY		9	
(42) TYPE OF SERVICE : ON -	Highway - Pedestrian			(69) UNDERCLEARANCES,VERTI & HORIZ		N	
UNDER - Waterway		CODE	55	(71) WATERWAY ADEQUACY		7	
(28) LANES: ON STRUCTURE	2 UNDER STRUCTURE		0	(72) APPROACH ROADWAY ALIGNMENT		8	
(29) AVERAGE DAILY TRAFFIC			19000	(36) TRAFFIC SAFETY FEATURES		0000	
(30) YEAR OF ADT	2011	(109) TRUCK ADT PCT	7%	(113)SCOUR CRITICAL BRIDGES		5	
(19) BYPASS OR DETOUR LENGTH			1 MI	PROPOSED IMPROVEMENTS			
				(75) TYPE OF WORK -		CODE	
				(76) LENGTH OF STRUCTURE IMPROVEMENT			
				(94) BRIDGE IMPROVEMENT COST			
				(95) ROADWAY IMPROVEMENT COST			
				(96) TOTAL PROJECT COST			
				(97) YEAR OF IMPROVEMENT COST ESTIMATE			
				(114)FUTURE ADT	38000	(115) YEAR FUTURE ADT	2025
GEOMETRIC DATA				INSPECTIONS			
(48) LENGTH OF MAXIMUM SPAN			62 FT	(90) INSPECTION DATE			04/04/2014
(49) STRUCTURE LENGTH			250 FT	(92) CRITICAL FEATURE INSPECTION :		(93) CFI DATE	
(50)CURB OR SIDEWALK: LEFT	5.333 FT RIGHT		1.167 FT	A) FRACTURE CRIT DETAIL -	NO	A)	
(51) BRIDGE ROADWAY WIDTH CURB TO CURB			48.5 FT	B) UNDERWATER INSP -	YES 48Mo	B)	09/09/2013
(52) DECK WIDTH OUT TO OUT			63 FT	C) OTHER SPECIAL INSP	NO	C)	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)			20 FT	SCOUR			
(33) BRIDGE MEDIAN -	No Median	CODE	0				
(34) SKEW	55°	(35) STRUCTURE FLARED	0				
(10) INVENTORY ROUTE MIN VERT CLEAR			999.9 FT				
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR			48.5 FT				
(53) MIN VERT CLEAR OVER BRIDGE RDWY			999.9 FT				
(54) MIN VERT UNDERCLEAR REF	Not a Highway or Railroad		0 FT				
(55) MIN LAT UNDERCLEAR RT REF	Not a Highway or Railroad		000 FT				
(56) MIN LAT UNDERCLEAR LT REF -			000 FT				
NAVIGATION DATA							
(38) NAVIGATION CONTROL -	No Navigational Control	CODE	0				
(111)PIER PROTECTION -		CODE					
(39) NAVIGATION VERTICAL CLEARANCE			0				
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR			FT				
(40) NAVIGATION HORIZONTAL CLEARANCE			0 FT				

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 05/22/2014

COUNTY : WAKE	DIVISION : 5	DISTRICT : 1	STRUCTURE NUMBER : 910494	LENGTH : 250 FEET
ROUTE CARRIED : SR1670		FEATURE INTERSECTED : CRABTREE CREEK		
LOCATED : 0.1 MI.N. OF JCT.SR1760		BRIDGE NAME :		CITY : RALEIGH
FUNC. CLASS : 17	SYST.ON : FA	SYST.UNDER : NFA	ADT & YR : 19000 2011	RAIL TYPE : LT 109 RT 109
BUILT : 1967	BY : SHC	PROJ : 6.801158	FED.AID PROJ :	DESIGN LOAD : HS 15
REHAB :	BY :	PROJ :	ALIGNMENT : LT.	SKEW : 35
NAVIGATION : VC 0 FT		HC 0 FT	HT. CRN. TO BED : 25 FT	LANES : ON 2 UNDER 0
WATER DEPTH : 2 FT				
SUPERSTRUCTURE : RC FLOOR/I-BEAMS				
SUBSTRUCTURE : ABUT.1:RC FULL HT;IBTS:RCP&B;EBT.2:RCCAP/H-PILES.				
SPANS : 4@62'6				
BEAMS OR GIRDERS : 8 LINES 36IN. I-BEAMS @ VAR. CTS.				
FLOOR : 7.3125RC/NO AWS	ENCROACHMENT :		DECK (OUT TO OUT) : 63 FT	
CLEAR ROADWAY : 48.5 FT	BETWEEN RAILS : 55 FT		SIDEWALK OR CURB : LT 5.333 FT RT 1.167 FT	
VERT.CL.OVER : 999.9 FT				
INV.RTG. : HS-14	OPE.RTG. : HS-24	CONTR.MEMBER : Ext Bm	POSTED : SV 41 TTST 41	DATE 05/08/2012
SYSTEM : Secondary S.R. Route			GREEN LINE ROUTE : N	
UNDER ROUTES AND CLEARANCES				

REMARKS :

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection - Contract

BRIDGE NO. 910494 COUNTY WAKE

ROUTE SR1670

OVER CRABTREE CREEK

STRUCTURE TYPE RC FLOOR/I-BEAMS

ROUTE ORIENTATION S - N

SPANS 4@62'6

EVALUATION CODES: CRITICAL (C, 0 - 3); POOR (P, 4); FAIR (F, 5, 6); GOOD (G, 7 - 9)

INSPECTION ITEM				ITEM 61		
DECK ITEMS			GRADES			
1. WEARING SURFACE				45. CHANNEL & CHANNEL PROT.	a. WATERWAY	G
					b. ALIGNMENT	F
					c. SCOUR	F
					d. SLOPE PROT., RIP-RAP, DIKES, ETC.	
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58	a. CONCRETE	4	G	50. APPROACH ROADWAY CONDITION		
	b. TIMBER			51. APPROACH SLABS		
	c. STEEL PLANK			52. PAINT SYSTEM CODE A		
	d. OPEN GRID			53. UTILITIES		
3. RAILING	a. CONCRETE			54. RESPONSE TO LIVE LOAD		
	b. TIMBER			55. ESTIMATED REMAINING LIFE		
	c. ALUMINUM		G			
	d. STEEL					
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			G			
5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)			F	60. REGULATORY SIGN NOTICE ISSUED		
6. DECK EXP JTS. OR DEVICES. NO. OF EACH	a. STEEL PL OR FINGER			61. PROMPT-ACTION NOTICE ISSUED		
	b. MISC PREFAB			62. PRESENTLY POSTED		
	c. COMPRESSION SEAL	3	G	63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)		
	d. STANDARD JOINTS			64. TOTAL SNOOPER INSP. TIME (HRS)		
	e. OPEN JOINTS			65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)		
7. DECK DEBRIS (INCLUDES EXCESS SAND/GRAVEL)			G			
				70. SI&A GENERAL CONDITION RATINGS		
SUPER STR. (FM. 1 (90)B TRUSS) ITEM 59				a. DECK	ITEM 58	7
10. LONGITUDINAL BEAMS OR GIRDERS			F	b. SUPERSTRUCTURE	ITEM 59	5
11. LONGITUDINAL JOIST OR STRINGERS				c. SUBSTRUCTURE	ITEM 60	5
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S			G	d. CHANNEL & CHANNEL PROT.	ITEM 61	7
13. END DIAP'S, CURTAIN WALLS, & CONN'S			F			
14. FLOOR BEAMS AND CONNECTIONS				71. SI&A FIELD APPRAISAL RATINGS		
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)			F	a. WATERWAY ADAQUACY		7
16. DRAINAGE SYSTEM (ON STRUCTURE)			G	b. APPR. RDWY. ALIGNMENT		8
17. MOVABLE SPAN MACHINERY						
				72. FIELD SCOUR EVALUATION		
				G		
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)						
35. TIM SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS			USE OF INSP. ACCESSIBILITY EQUIPMENT		
	b. PILES, POST, SILLS, & BRACING			SNOOPER (CODE S, 4, OR N)	HRS	NO
	c. BULKHEADS, WING'S, & TIE BACKS			LADDER		NO
36. CONC SUB STR.	a. ABUT. & INT. BENT CAPS		F	BUCKET TRUCK		
	b. ABUT. & BENT COL'S BREASTWALLS		G	BOAT		
	c. ABUT. & INT. BENT PILES			OTHER		
	d. BACKWALLS, WING'S, RETAIN. WALLS		G			
	e. ABUT. & BENT FOOTINGS & SILLS					
37. STEEL SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS			SPECIAL INSPECTION REQUESTED FOR		
	b. PILES, BRACING, AND BULKHEADS					
38. FOUNDATION PILES TYPE MATERIAL				NOTE		
39. SLOPE PROT., RIP-RAP (INCLUDE DRAINAGE)			G			
40. FENDER SYSTEMS				80. INSPECTED BY:	Matthew Tom	
41. DRIFT			F	81. REVIEWED BY:		

Bridge I&A Form 1(82)H State of North Carolina Dept. of Transportation Division of Highways		FIELD INSPECTION REPORT <u>Bridge Inspection & Analysis</u>	
Team Leader M. TOM			
Assisted By GLH			
Item No.	Grade		
2a	G	15 FT LONG HAIRLINE CRACK IN SOUTHBOUND LANE MIDSPAN OF SPAN 2 EFFLORESCENCE IN BAY 2 DECK ADJACENT TO ABUTMENT 1 FULL WIDTH HAIRLINE CRACK IN DOWNSTREAM OVERHANG ADJACENT TO ABUTMENT 1	
5	F	4 FT X 2 FT X 1 IN DEEP SPALL IN UPSTREAM SIDEWALK AT BENT 1 5 FT X 3 FT AREA OF BROKEN SIDEWALK AND CURB AT NORTHWEST CORNER	
7	G	DEBRIS ALONG UPSTREAM CURB UP TO 2 IN DEEP DEBRIS AND VEGETATION GROWTH IN JOINT AT BENT 2 UPSTREAM SIDEWALK DEBRIS ALONG DOWNSTREAM CURB UP TO 1 FT WIDE X 2 IN DEEP	
10	F	10 FT LONG SURFACE RUST ON EXTERIOR FACE OF GIRDER 8 WEB AND BOTTOM FLANGE GIRDER 1 SPAN 3 20 FT OF FLAKING PAINT AND SURFACE RUST UNDERSIDE OF TOP AND BOTTOM FLANGE UP TO 25 OF FLAKING PAINT AND RUST ON GIRDER 1 SPAN 1 INTERIOR WEB AND TOP AND BOTTOM FLANGES FLAKING PAINT WITH SURFACE RUST AT ENDS OF ALL GIRDERS	
13	F	10% SURFACE RUST ON BENT 1 BAY 6 END DIAPHRAGM	
36a	F	4 FT X 5 IN AREA OF DELAMINATION ABOVE COLUMN 4 BENT 3 NORTH SIDE 8 FT LONG X 3/8 IN WIDE CRACK BENT 3 ON NORTH FACE BENEATH GIRDER 2 8 FT X 2.5 IN WIDE X 6 IN DEEP DELAMINATION OF BENT 3 CAP SOFFIT BETWEEN COLUMNS 1 AND 2 10 FT LONG HAIRLINE CRACK IN ABUTMENT 1 BAY 1 18 IN SQUARE AREA OF DELAMINATION IN ABUTMENT 1 BENEATH GIRDER 4 3 FT X 6 IN AREA OF DELAMINATION OF BENT 1 CAP SOUTH FACE BENEATH GIRDER 2 5 FT LONG HAIRLINE CRACK BENT 1 BENEATH BAY 6 SOUTH FACE 4 FT X 18 IN WIDE DELAMINATION ABUTMENT 2 BENEATH BAY 1 REPAIR TO ABUTMENT 1 BENEATH GIRDER 3	
41	F	DRIFT ACCUMULATED AT ABUTMENT 2 BAY 7 100 CY OF ACCUMULATED DRIFT AT BENT 3 DOWNSTREAM END 10 CY OF ACCUMULATED DRIFT AT COLUMN 1 BENT 2	
45c	F	WASHED OUT STREAMBANK AROUND COLUMNS 3 AND 4 AT BENT 2	
50	G	15 FT X 1/4 IN WIDE CRACK IN SOUTHBOUND LANE SOUTH APPROACH	
53	F	DETACHED CONDUIT AT NORTHEAST CORNER	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 910494

County WAKE

Date: 04/04/2014

These Repairs Should Be Made Within Twelve Months From Date Of This Inspection

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3320	Maint to Aluminum Handrail	LF	20	DETACHED CONDUIT AT NORTHEAST CORNER	
3342	Clean and Paint Structural Steel	SF	100	UP TO 25 FT OF FLAKING PAINT AND RUST ON GIRDER 1 SPAN 1 INTERIOR WEB AND TOP AND BOTTOM FLANGES; FLAKING PAINT WITH SURFACE RUST AT ENDS OF ALL GIRDERS; 10% SURFACE RUST ON BENT 1 BAY 6 END DIAPHRAGM; 10 FT LONG SURFACE RUST ON EXTERIOR FACE OF GIRDER 8 WEB AND BOTTOM FLANGE; GIRDER 1 SPAN 3 20 FT OF FLAKING PAINT AND SURFACE RUST ON UNDERSIDE OF TOP AND BOTTOM FLANGE	
3366	Drift and Debris Removal	HR	16	100 CY OF ACCUMULATED DRIFT AT BENT 3 DOWNSTREAM END; 10 CY OF ACCUMULATED DRIFT AT COLUMN 1 BENT 2; DRIFT ACCUMULATED AT ABUTMENT 2 BAY 7	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined



15 FT X 1/4 IN WIDE CRACK IN SOUTHBOUND LANE SOUTH APPROACH



DEBRIS ALONG UPSTREAM CURB UP TO 2 IN DEEP



4 FT X 2 FT X 1 IN DEEP SPALL IN UPSTREAM SIDEWALK AT BENT 1



15 FT LONG HAIRLINE CRACK IN SOUTHBOUND LANE MIDSPAN OF SPAN 2



DEBRIS AND VEGETATION GROWTH IN JOINT AT BENT 2 UPSTREAM SIDEWALK



DEBRIS ALONG DOWNSTREAM CURB UP TO 1 FT WIDE X 2 IN DEEP



DETACHED CONDUIT AT NORTHEAST CORNER



10 FT LONG SURFACE RUST ON EXTERIOR FACE OF GIRDER 8 WEB AND BOTTOM FLANGE



DRIFT ACCUMULATED AT ABUTMENT 2 BAY 7



4 FT X 5 IN AREA OF DELAMINATION ABOVE COLUMN 4 BENT 3 NORTH SIDE



8 FT LONG X 3/8 IN WIDE CRACK BENT 3 ON NORTH FACE BENEATH GIRDER 2



8 FT X 2.5 IN WIDE X 6 IN DEEP DELAMINATION OF BENT 3 CAP SOFFIT BETWEEN COLUMNS 1 AND 2



100 CY OF ACCUMULATED DRIFT AT BENT 3 DOWNSTREAM END



WASHED OUT STREAMBANK AROUND COLUMNS 3 AND 4 AT BENT 2



10 CY OF ACCUMULATED DRIFT AT COLUMN 1 BENT 2



GIRDER 1 SPAN 3 20 FT OF FLAKING PAINT AND SURFACE RUST UNDERSIDE OF TOP AND BOTTOM FLANGE



5 FT X 3 FT AREA OF BROKEN SIDEWALK AND CURB AT NORTHWEST CORNER



REPAIR TO ABUTMENT 1 CAP BENEATH GIRDER 2



10 FT LONG HAIRLINE CRACK IN ABUTMENT 1 BAY 1



EFFLORESCENCE IN BAY 2 DECK ADJACENT TO ABUTMENT 1



18 IN SQUARE AREA OF DELAMINATION IN ABUTMENT 1 BENEATH GIRDER 4



UP TO 25 FT OF FLAKING PAINT AND RUST ON GIRDER 1 SPAN 1 INTERIOR WEB AND TOP AND BOTTOM FLANGES



3 FT X 6 IN AREA OF DELAMINATION OF BENT 1 CAP SOUTH FACE BENEATH GIRDER 2



FULL WIDTH HAIRLINE CRACK IN DOWNSTREAM OVERHANG ADJACENT TO ABUTMENT 1



10% SURFACE RUST ON BENT 1 BAY 6 END DIAPHRAGM



5 FT LONG HAIRLINE CRACK BENT 1 BENEATH BAY 6 SOUTH FACE



FLAKING PAINT WITH SURFACE RUST AT ENDS OF ALL GIRDERS

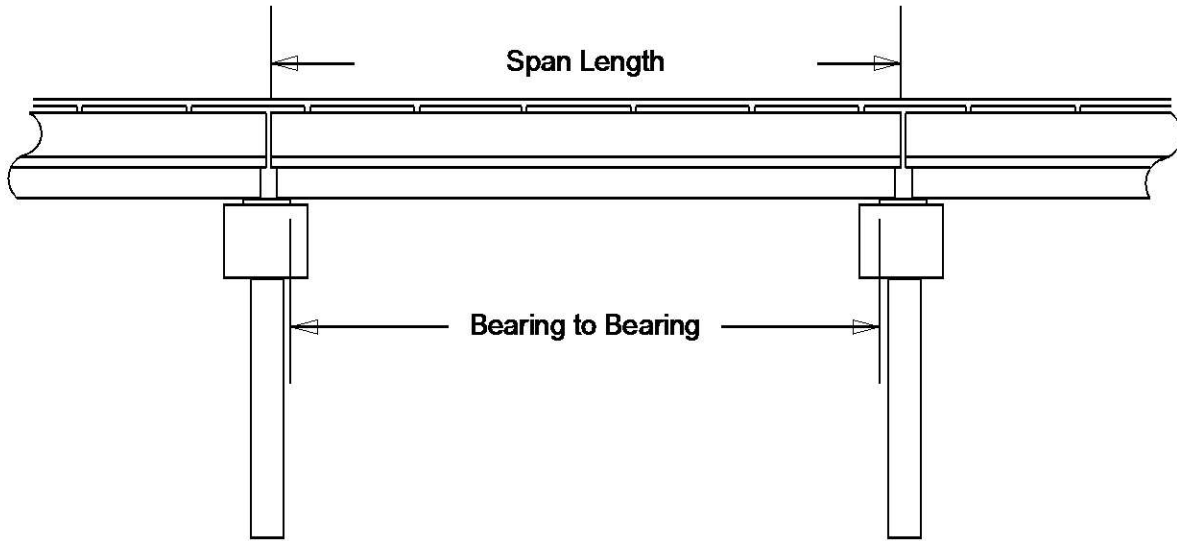


4 FT X 18 IN WIDE DELAMINATION ABUTMENT 2 BENEATH BAY 1

Structure Data Worksheet

Spans

County: WAKE Structure No: 910494 Date: 04/04/2014 Inspected By: MKT



Span No	Span Length	Bearing to Bearing	Comments
1	62.5	61.5	NBIS = 248'
2	62.5	61.5	
3	62.5	61.5	
4	62.5	61.5	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 910494 County: WAKE Date: 04/04/2014 By: MKT

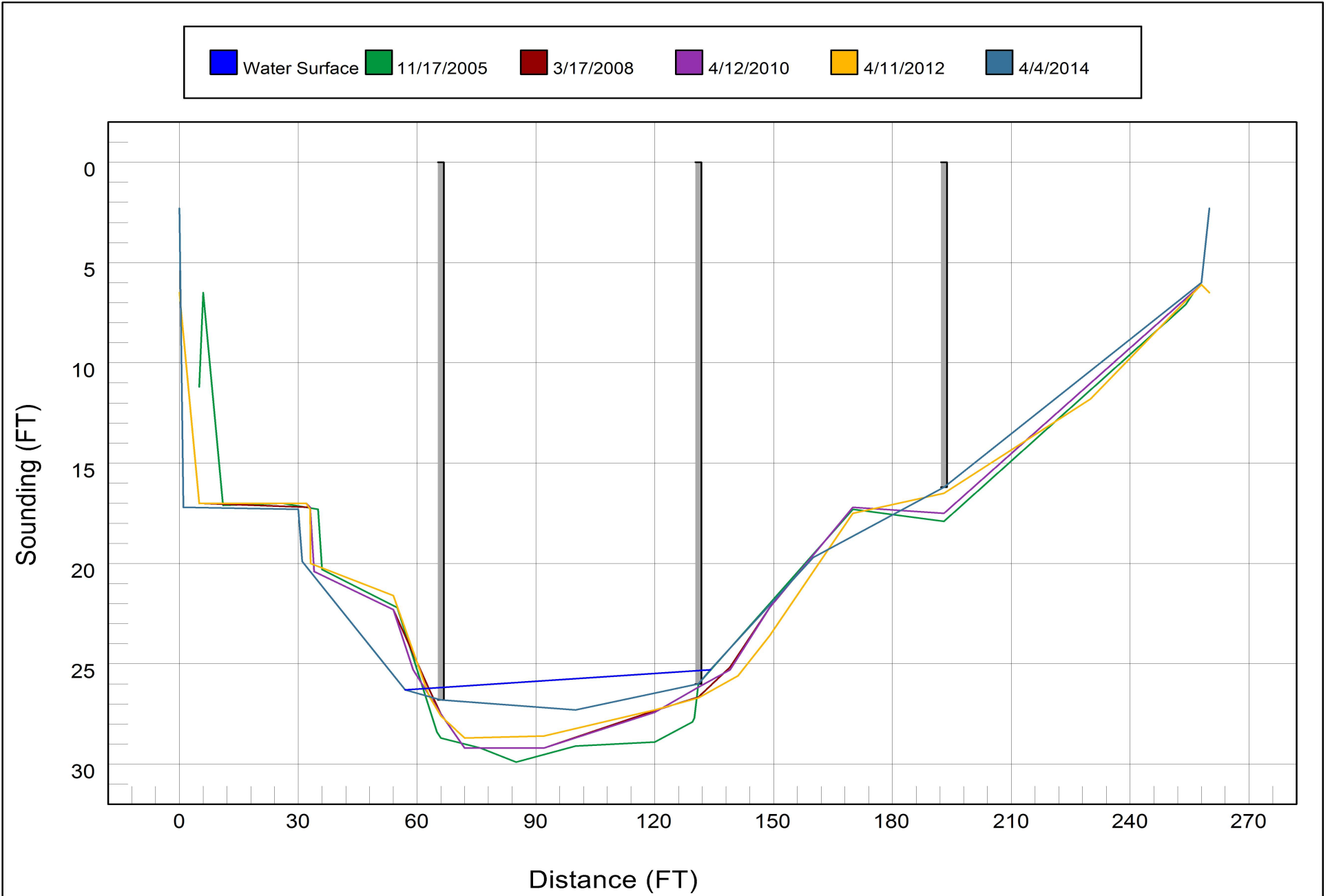
Record sounding from top of rail. Other location if needed: _____

Distance from Highwater Mark to top of rail: _____ Location of Highwater Mark: _____

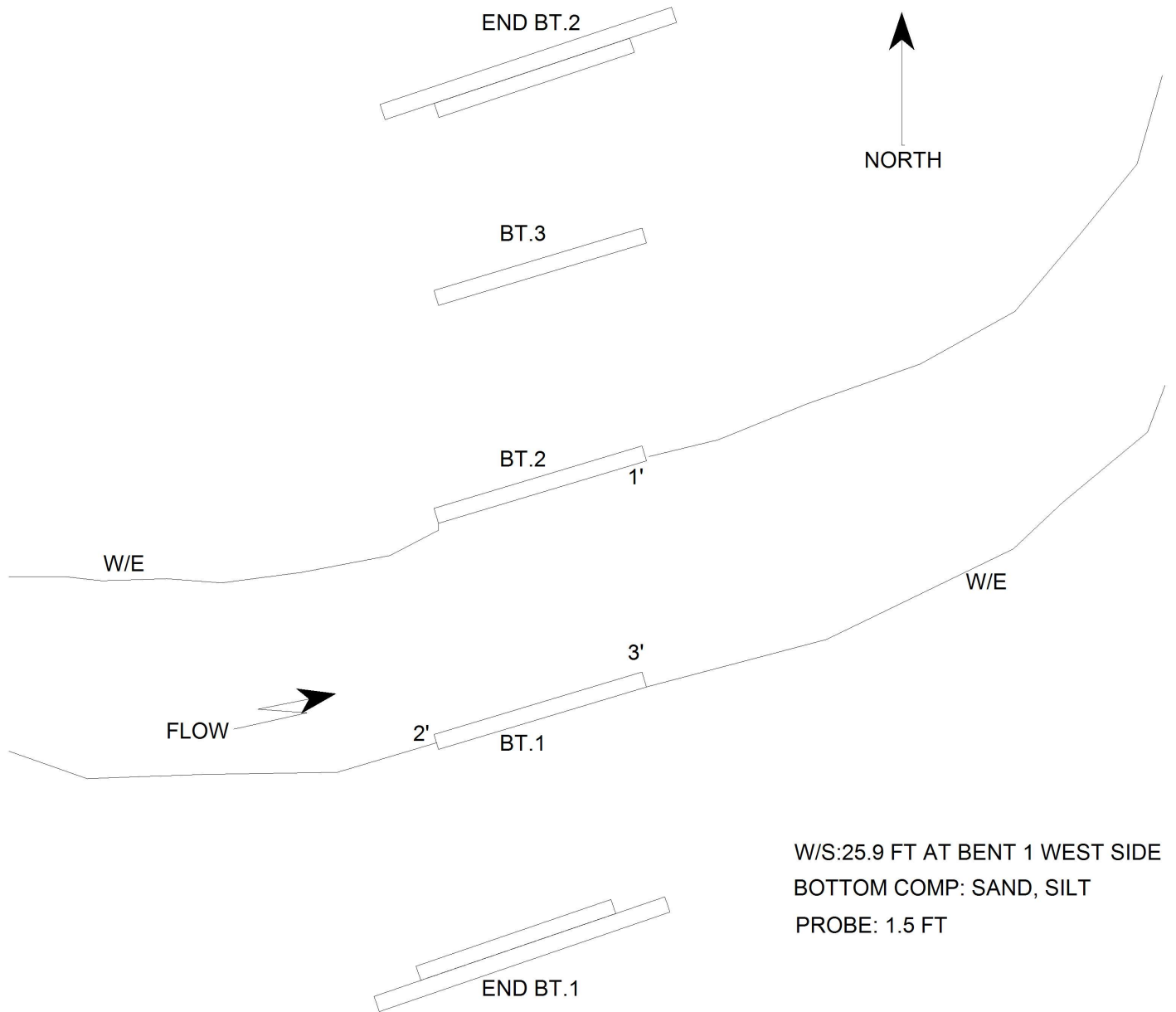
DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.3	TOP OF WING			
1	17.2	FACE OF CAP	1	16.4	FACE OF CAP
30	17.3	GROUND			
31	19.9	GROUND			
57	26.3	Water Surface/Water Edge (WSWE)			
66	26.8	BENT 1	66	24.4	BENT 1
100	27.3	STREAMBED			
131	26	BENT 2	131	24.6	BENT 2
134	25.3	Water Surface/Water Edge (WSWE)			
160	19.7	GROUND			
193	16.2	BENT 3	193	16.5	BENT 3
258	6	FACE OF CAP	258	7.9	FACE OF CAP
260	2.3	TOP OF WING			

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



VERIFIED BY MKT 4/4/2014

Title

PLAN VIEW

Description

BRIDGE AND WATERWAY

Bridge No: 910494

Drawn By: WTW

Date: 09/07/2005

File Name: S0158000018

Bridge Inspection Field Sketch



Roadway	20ft Wide	2 Paved Lanes	Looking North
Left Shoulder	6ft Wide		6ft Unpaved
Right Shoulder	6ft Wide		6ft Unpaved
Left Guardrail			
Right Guardrail			

VERIFIED BY MKT 4/4/2014

Title

Approach Roadway

Description

Looking North

Bridge No: 910494

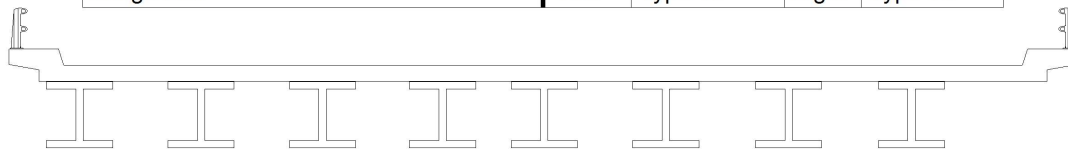
Drawn By: CLS

Date: 11/07/2005

File Name: S0234000038

Bridge Inspection Field Sketch

Deck Width/Out to Out	63ft	Between Rails			55ft
Clear Roadway	48.5ft	Wearing Surface			
Median Width		Median Height			
Curb Height		Left	0.459ft	Right	0.459ft
Sidewalk Width		Left	5.333ft	Right	
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left		Right	
Top of Rail to Deck/Wearing Surface		Left	2.542ft	Right	2.542ft
Bridge Rail		Left	Type 10	Right	Type 10



Measurements for Span #	1		
Deck Thickness	0.817	Left Overhang	4.167
Top of Rail to Bottom of Beam	8.067	Right Overhang	3.833

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	7.167ft	
2	Steel I Beam	7.167ft	
3	Steel I Beam	7.083ft	
4	Steel I Beam	6.0ft	
5	Steel I Beam	7.167ft	
6	Steel I Beam	7.250ft	
7	Steel I Beam	7.250ft	
8	Steel I Beam	ft	

VERIFIED BY MKT 4/4/2014

Title

Typical Section

Description

Bridge Section

Bridge No: 910494

Drawn By: RL BOWERS

Date: 4/11/2012

File Name: S0234000039

Bridge Inspection Field Sketch										
Cap Information			Material Cast-in-Place Concrete							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.			Right Beam to End of Cap.		
90.333 ft.	2.833 ft.	3.000 ft.	4.333 ft.	4.333 ft.						
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Concrete	20.417 ft.	2.5 ft.		2.417 ft.		No	No	No	No
2	Concrete	20.417 ft.	2.5 ft.		2.417 ft.		No	No	No	No
3	Concrete	20.417 ft.	2.5 ft.		2.417 ft.		No	No	No	No
4	Concrete	20.417 ft.	2.5 ft.		2.417 ft.		No	No	No	No
5	Concrete	20.417 ft.	2.5 ft.		2.417 ft.		No	No	No	No
Bent/Abutment #: 3 Similar Bents: 1, 2										
Title						Description				
SUBSTRUCTURE						INTERIOR BENT 3				
Bridge No: 910494		Drawn By: MKT			Date: 4/8/2014		File Name: S0398000140			



LOOKING NORTH



UPSTREAM RAILING



JOINT AT ABUTMENT 1



WEIGHT LIMIT SIGN AT SOUTHEAST CORNER



JOINT AT BENT 1



DOWNSTREAM RAILING



WAKE COUNTY PLAQUE AT NORTHWEST CORNER



DRAINAGE SCUPPER IN SPAN 4 AT DOWNSTREAM CURB



JOINT AT ABUTMENT 2



LOOKING SOUTH



JOINT AT BENT 3



LOOKING DOWNSTREAM



ABUTMENT 2



BAY 7 INTERMEDIATE DIAPHRAGM SPAN 4



BENT 3



GIRDER 4 BEARING AT ABUTMENT 2



SPAN 3 SUPERSTRUCTURE



BENT 2



TWO 5 IN DIAMETER UTILITIES ALONG UPSTREAM OVERHANG



UPSTREAM STRUCTURE PROFILE



REPAIR TO ABUTMENT 1 BENEATH GIRDER 3



BENT 1



ABUTMENT 1



SOUTHEAST WING WALL



DOWNSTREAM STRUCTURE PROFILE