

NC DEPARTMENT OF TRANSPORTATION ATTENTION
 DIVISION OF HIGHWAYS
 BRIDGE MANAGEMENT UNIT

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY GUILFORD BRIDGE NUMBER 400313 INSPECTION CYCLE 2 YRS
 ROUTE US220 ACROSS REEDY FORK CREEK M.P. 0

0.2 MI. S. JCT. SR2321

LOCATION 1.65 MI. S. JCT. NC150

SUPERSTRUCTURE REINFORCED CONCRETE DECK GIRDERS

SUBSTRUCTURE ABUTS:RC FULL HEIGHT,INT.BTS:RC RNP&W WDN W/RC CAP&STL.PILES

SPANS 1@42'3, 1@42'6, 1@42'3

LONGITUDE 79° 52' 52.7" **79° 52' 52.9"** LATITUDE 36° 10' 24.6" **36° 10' 25.8"**

PRESENT CONDITION FAIR INVENTORY RATING _____

INSPECTION DATE 03/22/2010 OPERATING RATING _____

PRESENT POSTING Not Posted PROPOSED POSTING _____

COMPUTER UPDATE _____ ANALYSIS DATE _____

POSTING LETTER DATE _____ SUFFICIENCY RATING _____

OTHER SIGNS PRESENT NONE



LOOKING NORTH

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: 04/13/2010

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE 400313
 (8) STRUCTURE NUMBER(FEDERAL) 00000000810313
 INVENTORY ROUTE (ON/UNDER) - ON 121002200
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 7
 (3) COUNTY CODE 81 (4) PLACE CODE 00000
 (6) FEATURE INTERSECTED - REEDY FORK CREEK
 (7) FACILITY CARRIED US220
 (9) LOCATION 1.65 MI. S. JCT. SR2321
 (11)MILEPOINT 0
 (16)LAT 36° 10' 25.8" (17)LONG 79° 52' 52.9"
 (98)BORDER BRIDGE STATE CODE PCT SHARE
 (99)BORDER BRIDGE STRUCTURE NO

SUFFICIENCY RATING = 60.5
 STATUS = Functionally Obsolete

CLASSIFICATION **CODE**

(112)NBIS BRIDGE SYSTEM - YES
 (104)HIGHWAY SYSTEM NHS Route 1
 (26) FUNCTIONAL CLASS - Arterial - Other 02
 (100)STRAHNET HIGHWAY - Not a STRAHNET Route 0
 (101)PARALLEL STRUCTURE - No Parallel Structure N
 (102)DIRECTION OF TRAFFIC - 2-way Traffic 2
 (103)TEMPORARY STRUCTURE - Not Temporary
 (110)DESIGNATED NATIONAL NETWORK - Is Part of 1
 (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

(43) STRUCTURE TYPE MAIN: Concrete
 TYPE - Tee Beam CODE 104
 (44) STRUCTURE TYPE APPR :
 TYPE - CODE
 (45) NUMBER OF SPANS IN MAIN UNIT 3
 (46) NUMBER OF APPROACH SPANS
 (107)DECK STRUCTURE TYPE - Concrete cast-in-place CODE 1
 (108)WEARING SURFACE / PROTECTIVE SYSTEM :
 (A) TYPE OF WEARING SURFACE - Bituminous CODE 6
 (B) TYPE OF MEMBRANE - None CODE 0
 (C) TYPE OF DECK PROTECTION - None CODE 0

CONDITION **CODE**

(58) DECK 5
 (59) SUPERSTRUCTURE 5
 (60) SUBSTRUCTURE 5
 (61) CHANNEL & CHANNEL PROTECTION 7
 (62) CULVERTS N

LOAD RATING AND POSTING **CODE**

(31) DESIGN LOAD H 15 2
 (64) OPERATING RATING - HS-34 162
 (66) INVENTORY RATING - HS-21 137
 (70) BRIDGE POSTING - No Posting Required 5
 (41) STRUCTURE OPEN, POSTED ,OR CLOSED A
 DESCRIPTION - Open, No Restriction

AGE AND SERVICE

(27) YEAR BUILT 1923
 (106)YEAR RECONSTRUCTED 1951
 (42) TYPE OF SERVICE : ON - Highway
 UNDER - Waterway CODE 15
 (28) LANES: ON STRUCTURE 2 UNDER STRUCTURE
 (29) AVERAGE DAILY TRAFFIC 18000
 (30) YEAR OF ADT 2005 (109) TRUCK ADT PCT 14 %
 (19) BYPASS OR DETOUR LENGTH 4 MI

APPRAISAL **CODE**

(67) STRUCTURAL EVALUATION 5
 (68) DECK GEOMETRY 2
 (69) UNDERCLEARANCES,VERTI & HORIZ N
 (71) WATERWAY ADEQUACY 7
 (72) APPROACH ROADWAY ALIGNMENT 7
 (36) TRAFFIC SAFETY FEATURES 0111
 (11)SCOUR CRITICAL BRIDGES 5

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 43 FT
 (49) STRUCTURE LENGTH 127 FT
 (50)CURB OR SIDEWALK: LEFT 1.1 FT RIGHT 1.1 FT
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 28.0 FT
 (52) DECK WIDTH OUT TO OUT 30.5 FT
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 24.0 FT
 (33) BRIDGE MEDIAN - No Median CODE 0
 (34) SKEW 0° (35) STRUCTURE FLARED NO
 (10) INVENTORY ROUTE MIN VERT CLEAR 99 FT 99 IN
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 28.0 FT
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 99 FT 99 IN
 (54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad
 (55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad 99.9 FT
 (56) MIN LAT UNDERCLEAR LT REF - 0.0 FT

PROPOSED IMPROVEMENTS

(75) TYPE OF WORK - CODE 311
 (76) LENGTH OF STRUCTURE IMPROVEMENT 155 FT
 (94) BRIDGE IMPROVEMENT COST \$502,000
 (95) ROADWAY IMPROVEMENT COST \$126,000
 (96) TOTAL PROJECT COST \$753,000
 (97) YEAR OF IMPROVEMENT COST ESTIMATE 2007
 (114)FUTURE ADT 36000 (115) YEAR FUTURE ADT 2025

INSPECTIONS

(90) INSPECTION DATE 03/22/2010
 (92) CRITICAL FEATURE INSPECTION : (93) CFI DATE
 A) FRACTURE CRIT DETAIL - NO A)
 B) UNDERWATER INSP - YES 48Mo B) 09/01/2008
 C) OTHER SPECIAL INSP NO C)
 SCOUR

NAVIGATION DATA

(38) NAVIGATION CONTROL - No Navigational Control CODE 0
 (111)PIER PROTECTION - Not Applicable CODE
 (39) NAVIGATION VERTICAL CLEARANCE 0
 (116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR
 (40) NAVIGATION HORIZONTAL CLEARANCE 0

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection
 BRIDGE NO. 400313 COUNTY GUILFORD ROUTE US220 OVER REEDY FORK CREEK
 STRUCTURE TYPE REINFORCED CONCRETE DECK GIRDERS
 ROUTE ORIENTATION S - N SPANS 1@42'3, 1@42'6, 1@42'3

EVALUATION CODE: 0-2 CRITICAL, 3 & 4 POOR, 5 & 6 FAIR, 7-9 GOOD

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

Bridge I&A Form 1(82)H		<h1>FIELD INSPECTION REPORT</h1> <h2><u>Bridge Inspeccion & Analysis</u></h2>	
State of North Carolina Dept. of Transportation Division of Highways			
Team Leader RICK ALLRED			
Assisted By MATTHEW WALKER			
Item No.	Grade		
1	6	WEARING SURFACE ...6... CRACKS AT ABUTMENTS AND PIERS. HOLE IN WEARING SURFACE WHERE DECK WAS CORED IN SPAN 3.	
2a	5	DECK ...5... UNDERSIDE HAS AREAS OF EFFLORESCENCE LEACHING , DISCOLORED ALONG DRAIN HOLES. DECK WAS CORED IN SPAN 3.	
3a	66... ALL RAIL PITTING ON SURFACE . LEFT RAIL IN SPAN 2 HAS BEEN REPAIRED . NOTE S.W. GUARDRAIL AT BRIDGE HAS BEEN STRUCK AND BENT .	
4	5	CURBS...5... CURB HAS AREAS OF 1/2 INCH PITTING .	
6d	4	EXPANSION JOINTS ...4... EXPANSION JOINTS ARE PAVED OVER ,MATERIAL FALLING OUT AND LEAKING .	
7	4	DECK DEBRIS ...4... DIRT PARTIALLY BLOCKING DRAIN HOLES .	

Bridge I&A Form 1(82)H		FIELD INSPECTION REPORT <u>Bridge Inspection & Analysis</u>	
State of North Carolina Dept. of Transportation Division of Highways			
Team Leader RICK ALLRED			
Assisted By MATTHEW WALKER			
Item No.	Grade		
10	5	<p>GIRDERS ...5... GIRDER 1, SPAN 1 HAS BEEN REPAIRED SINCE LAST INSPECTION. GIRDER 3, SPAN 3 HAS BEEN REPAIRED SINCE LAST INSPECTION. GIRDER 2, SPAN 3 HAS BEEN REPAIRED SINCE LAST INSPECTION.</p> <p>GIRDER 2 IN SPAN 1 HAS 2 INCH DEEP AREA OF HONEYCOMBING NEAR MID-SPAN .</p> <p>GIRDER 3 IN SPAN 1 HAS DELAMINATED AREA ALONG BOTTOM AT PIER 1 .</p> <p>GIRDER 3 IN SPAN 2 HAS 1/2 CRACK ,AND DELAMINATED ON UNDERSIDE AT PIER 2, EXPOSED RE-BAR HAS 25 PERCENT SECTION LOSS , AND DELAMINATED ON LEFT SIDE AT PIER 1 .</p> <p>GIRDER 2 IN SPAN 2 DELAMINATED ON LEFT SIDE AT PIER 1 .</p> <p>GIRDER 1 IN SPAN 2 HAS 1/2 CRACK ON RIGHT SIDE AT PIER 2 .</p> <p>GIRDER 1, SPAN 3 IS DELAMINATED 1" DEEP ALONG BOTTOM FROM PIER 2 BACK 1' LONG X WIDTH.</p> <p>GIRDER 4 IN SPAN 3 HAS VERTICAL H/L CRACK ON RIGHT SIDE FROM TOP TO BOTTOM NEAR MID-SPAN AT 10 FEET FROM ABUTMENT 2 .</p> <p>MOST GIRDERS HAVE AREAS OF H/L TO 1/8 CRACKS .</p>	
13	5	<p>END DIAPRAGMS / CURTAIN WALLS ...5... ABUTMENT 1 CURTAIN WALL ON RIGHT SIDE HAS 18 INCH LONG SPALL ,2 INCHES DEEP .</p> <p>ALL CURTAIN WALLS HAVE SCATTERED VERTICAL AND DIAGONAL CRACKS ON FACE .</p>	
16	4	<p>DRAINAGE ...4... SEE DECK DEBRIS .</p>	
36a	5	<p>CAPS ...5... ABUTMENT 1 CAP MAP CRACKING LEFT OF GIRDER 1 AND UNDER BAY 3 . PIER 1 CAP ON SOUTH FACE HAS DIAGONAL EFFLORESCENCE CRACKS AT STEP-UP LEFT OF GIRDER 4 , AND AT GIRDER 3 ON NORTH FACE .</p> <p>ALL CAPS HAVE SCATTERED VERTICAL H/L TO 1/8 INCH CRACKS ON FACE .</p>	
36b	5	<p>COLUMNS / BREASTWALLS ...5... ALL COLUMNS AND ABUTMENT BREASTWALL HAVE 1 INCH DEEP PITTING ALONG W/L AND AREAS OF H/L TO 1/8 CRACKS . ABUTMENT 1 BREASTWALL SHIFTED INWARD PRIOR TO 1951 WIDENING 2 1/2 INCHES IN BAYS 1 AND 2 ANS 1/2 INCH IN BAY 3 AT CURTAIN WALL .</p>	
36c	5	<p>PILES ...5... CONCRETE WIDENED PILES HAVE 1 INCH PITTING ALONG W/L , H/L CRACKING .</p>	

Bridge I&A Form 1(82)H State of North Carolina Dept. of Transportation Division of Highways		FIELD INSPECTION REPORT <u>Bridge Inspeccion & Analysis</u>	
Team Leader RICK ALLRED			
Assisted By MATTHEW WALKER			
Item No.	Grade		
36d	5	WINGWALL ...5... ALL HAVE SURFACE PITTING ALONG W/L AND AREAS OF MAP CRACKING .	
36e	6	FOOTINGS ...6... SEE UNDERWATER REPORT DATED 8/30 /06.	
53	4	UTILITY ...4... BRACKETS BROKEN IN SPAN 3 .	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 400313

County GUILFORD

Date: 03/22/2010

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3306	Maintain Concrete Superstructure Components	SF	200	GIRDERS HAVE CRACKS ,DELAMINATED AREAS ON ENDS . ABUTMENT 1 CURTAIN WALL ON RIGHT SIDE HAS 18 INCH LONG SPALL ,2 INCHES DEEP . ALL CURTAIN WALLS HAVE SCATTERED VERTICAL AND DIAGONAL CRACKS ON FACE . EXPANSION JOINTS ARE PAVED OVER ,MATERIAL FALLING OUT AND LEAKING . UTILITY BRACKETS BROKEN IN SPAN 3 . UNDERSIDE OF DECK HAS AREAS OF EFFLORESCENCE LEACHING AND DISCOLORED ALONG DRAIN HOLES . CAPS HAVE AREAS OF EFFLORESCENCE CRACKS , 1 INCH PITTING ALONG W/L AT BREASTWALLS AND PIERS . DIRT ALONG CURBS PARTIALLY BLOCKING DRAIN HOLES	
3310	Maintenance/Repair/Replacement of Standard Bridge Expansion Joints	LF	60		
3314	Maintain Steel Superstructure Components	LF	50		
3326	Maintain Concrete Deck	SF	500		
3348	Maintain Concrete Substructure Components	LF	200		
3376	Clean/Wash Bridge Decks	SF	10		

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined



GIRDER 1 IN SPAN 1 HAS A CONCRETE REPAIR, 10 FEET FROM ABUTMENT 1.



GIRDER 1, SPAN 1 HAS A CONCRETE REPAIR AT PIER 1.



GIRDER 2 IN SPAN 1 HAS 2 INCH DEEP AREA OF HONEYCOMBING NEAR MID-SPAN .



ABUTMENT 1 CAP MAP CRACKING ON FACE AT BAY 3



ABUTMENT 1 BREASTWALL AND COLUMNS ARE PITTING UP TO 1" DEEP ALONG THE WATERLINE.



GIRDER 3 IN SPAN 1 HAS DELAMINATED AREA ALONG BOTTOM AT PIER 1 .



PIER 1 CAP ON SOUTH FACE HAS DIAGONAL EFFLORESCENCE CRACKS AT STEP-UP LEFT OF GIRDER 4



GIRDER 3 IN SPAN 2 IS DELAMINATED ON LEFT SIDE AT PIER 1 .



GIRDER 2 IN SPAN 2 DELAMINATED ON LEFT SIDE AT PIER 1 .



COLUMNS AT PIER 1 ARE PITTING UP TO 1" DEEP AT THE WATERLINE



UTILITY BRACKETS BROKEN IN SPAN 3, UTILITY LINES SAGGING .



GIRDER 1 IN SPAN 2 HAS 1/2 CRACK ON RIGHT SIDE AT PIER 2 .



GIRDER 1, SPAN 3 IS DELAMINATED 1" DEEP ALONG BOTTOM FROM PIER 2 BACK 1' LONG X WIDTH.



GIRDER 2, SPAN 3 HAS A CONCRETE REPAIR ALONG BOTTOM AT PIER 2



GIRDER 3, SPAN 3 HAS A CONCRETE REPAIR ALONG BOTTOM AT PIER 2



DECK HAS BEEN CORED IN SPAN 3, BAY 1



GIRDER 4 IN SPAN 3 HAS VERTICAL H/L CRACK ON RIGHT SIDE FROM TOP TO BOTTOM NEAR MID-SPAN AT 10 FEET FROM ABUTMENT 2 .



GIRDER 1, SPAN 3 HAS A 1/8" LONGITUDINAL CRACK FROM ABUTMENT 2 BACK 6" ALONG BOTTOM.



DIRT ALONG CURBS PARTIALLY BLOCKING DRAIN HOLES



LEFT RAIL HAS BEEN REPAIRED IN SPAN 3



DECK WAS CORED IN SPAN 3, HOLE IN WEARING SURFACE.



WEARING SURFACE CRACKED AT PIERS AND ABUTMENTS.

BRIDGE MANAGEMENT UNIT
 DATA ON EXISTING STRUCTURE Run Date: 04/13/2010

COUNTY : GUILFORD DIV : 7 DIST : 2 STRUCTURE NUMBER : 400313 LENGTH : 127 FEET

ROUTE CARRIED : US220 FEATURE INTERSECTED : REEDY FORK CREEK

LOCATED : 1.65 MI. S. JCT. SR2321 BRIDGE NAME :

FUNC. CLASS : 02 SYST.ON : FA SYST.UNDER : NFA ADT & YR : 18000 2005 RAIL TYPE : LT 141 RT 141

BUILT : 1923 BY : SHPWC PROJ : FED.AID PROJ : DESIGN LOAD : H 15

REHAB : 1951 BY : SHPWC PROJ : 5437 ALIGNMENT : TAN SKEW : 90 LANES : ON 2 UNDER

NAVIGATION : HT. CRN. TO BED : WATER DEPTH :
 VC 0.0 FT HC 0.0 FT 16 FT 7 FT

SUPERSTRUCTURE : REINFORCED CONCRETE DECK GIRDERS

SUBSTRUCTURE : ABUTS:RC FULL HEIGHT,INT.BTS:RC RNP&W WDN W/RC CAP&STL.PILES

SPANS : 1@42'3, 1@42'6, 1@42'3

BEAMS OR GIRDERS : 4 LINES OF REINFORCED CONCRETE DECK GIRDERS @VARIOUS CENTERS

FLOOR : 7 RC SLAB,4 AWS ENCROACHMENT : 2LNS 4 PVC DECK (OUT TO OUT) : 30.5 FT

CLEAR ROADWAY : 28.0 FT BETWEEN RAILS : 30.3 FT SIDEWALK OR CURB : LT 1.1 FT RT 1.1 FT

VERT.CL.OVER : 99 FT 99 IN VERT.CL.UNDER : 00 FT 00 IN HOR.CL.UNDER : 0.0 FT

INV.RTG. : HS-21 OPE.RTG. : HS-34 CONTR.MEMBER : Ext RCDG POSTED : SV TTST DATE

SYSTEM : Primary U.S. Route GREEN LINE ROUTE : Y

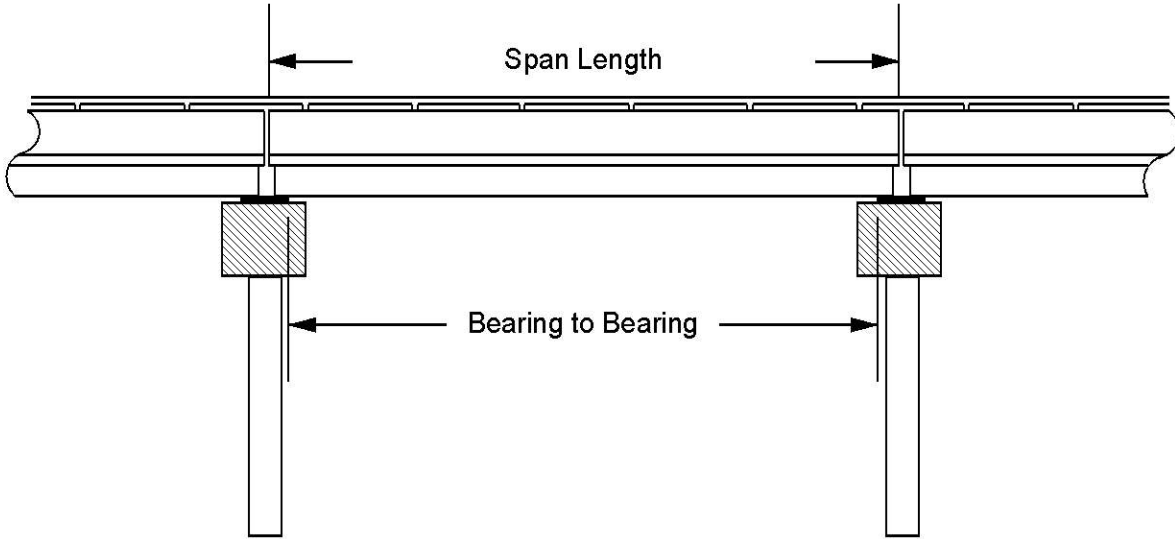
2ND OPENING : 3RD OPENING : 4TH OPENING : 5TH OPENING :

REMARKS :

Structure Data Worksheet

Spans

County: GUILFORD Structure No: 400313 Date: 03/22/2010 Inspected By: RLA



Span No	Span Length	Bearing to Bearing	Comments
1	42.250	40.542	NBIS- BL- 125.000
2	42.500	41.083	MEASUREMENTS VERIFIED 3/22/10...MYW
3	42.250	40.542	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 400313 County: GUILFORD Date: 03/22/2010 By: RLA

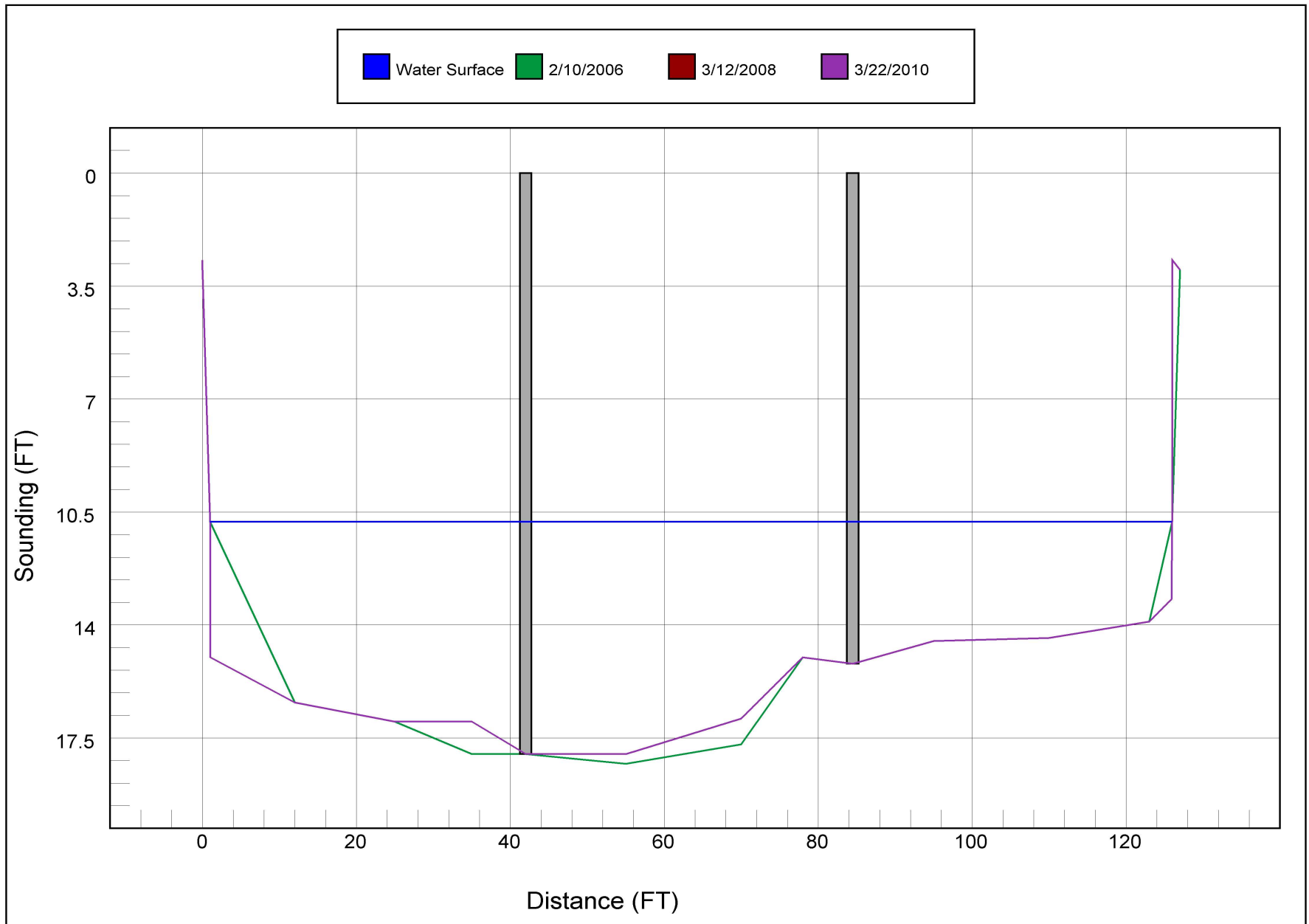
Record sounding from top of rail. Other location if needed: TOP OF RAIL

Distance from Highwater Mark to top of rail: 9 Location of Highwater Mark: piers

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.7	tp WINGWALL			
0	3	ff			
1	10.8	wswe	1	15.8	abutment 1
1.01	15				
12	16.4				
25	17				
35	17				
42	18	pier 1	42	17.3	PIER 1
55	18				
70	16.9				
78	15				
84.5	15.2	pier 2	84.5	17.6	PIER 2
95	14.5				
110	14.4				
123	13.9				
125.9	13.2				
126	10.8	wswe	126	13	abutment 2
126.01	2.7	TP WINGWALL			
127	3	ff			

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

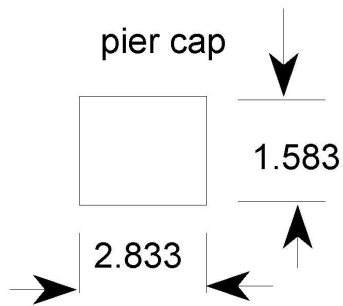
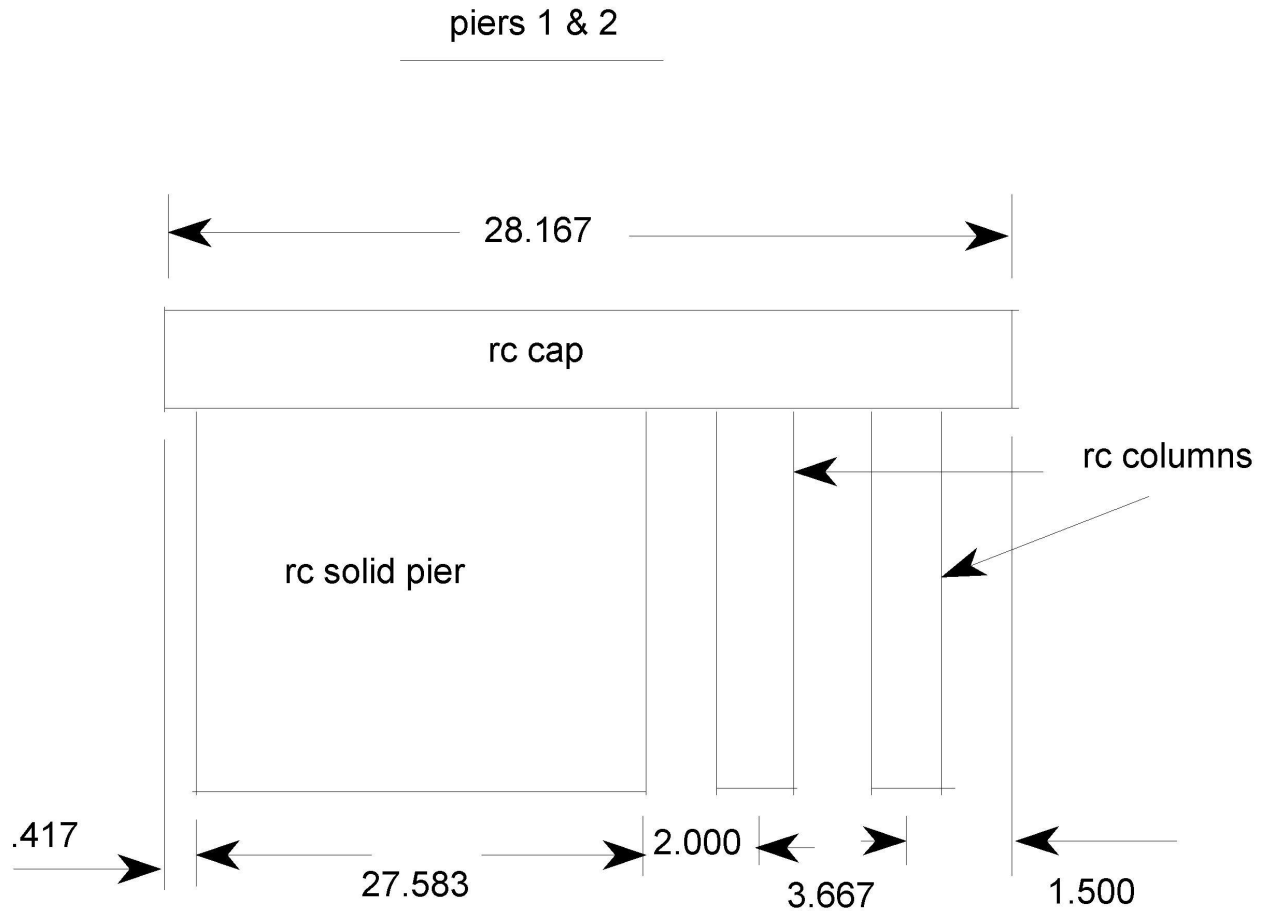


Roadway	24ft Wide	2 Paved Lanes	Looking North
Left Shoulder	8ft Wide		8ft Unpaved
Right Shoulder	8ft Wide		8ft Unpaved
Left Guardrail			
Right Guardrail			

MEASUREMENTS VERIFIED 3/22/10...MYW

Title app rdway		Description app rdway	
Bridge No: 400313	Drawn By: acf	Date: 03/12/08	File Name: S0058001058

Bridge Inspection Field Sketch



2- conc columns

20" x 20"

girder to end of cap

lt side- 2.167

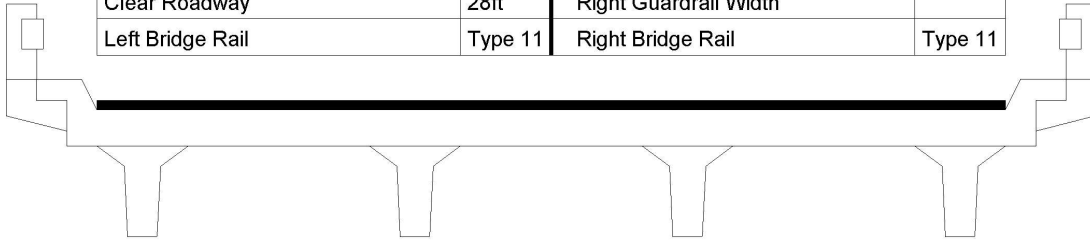
rt side- 3.000

MEASUREMENTS VERIFIED 3/22/10...MYW

Title	Description
piers 1 & 2	piers 1 & 2
Bridge No: 400313	Drawn By: acr
Date: 3/12/08	File Name: S0058002556

Bridge Inspection Field Sketch

Deck Width/Out to Out	30.5ft	Wearing Surface	0.333ft
Between Rails	30.25ft	Median Width	
Curb Height	0.5ft	Median Height	
Top Rail to Deck/Wearing Surface	2.25ft	Left Guardrail Width	
Clear Roadway	28ft	Right Guardrail Width	
Left Bridge Rail	Type 11	Right Bridge Rail	Type 11



Measurements for Span #	1	spans 2 & 3 similar	
Deck Thickness	0.583	Left Overhang	3.75
Top of Rail to Bottom of Beam	6.917	Right Overhang	3.75

Beam No	Beam Type	Spacing	Comments
1	RC Deck Girder	8ft	
2	RC Deck Girder	8ft	
3	RC Deck Girder	7ft	
4	RC Deck Girder		

rc girder 1, 2 & 3 are 3.333 wide x 1.500 tall

rc girder 4 is 3.750 wide x 1.500 tall

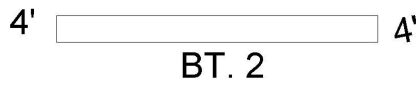
abutments- rc full height

int bts- rc r n p & w widened with rc cap & stl. piles, encased in conc.

MEASUREMENTS VERIFIED 3/22/10...MYW

Title data		Description data	
Bridge No: 400313	Drawn By: acf	Date: 03/12/08	File Name: S0058001059

Bridge Inspection Field Sketch



LAKE



Title PLAN VIEW		Description WATERWAY	
Bridge No: 400313	Drawn By: BZC	Date: 9/3/2008	File Name: S0158000633



LOOKING WEST



PIER 1, PIER 2 SIMILIAR, SUPERSTRUCTURE SPAN 1, SPANS 2,3 SIMILIAR



ABUTMENT 1, ABUTMENT 2 SIMILIAR



UTILITY, 2 LINES OF 5" DIAM. PVC ALONG THE LEFT OVERHANG.



UTILITY HANGER



BEAM AT END OF CAP



LOOKING EAST DOWNSTREAM



LOOKING WEST UPSTREAM



LOOKING EAST



TERMINAL END



GUARDRAIL SPACING MIDWAY



LOOKING NORTH



GUARDRAIL ATTACHMENT



LOOKING WEST UPSTREAM FROM TOP



LOOKING EAST DOWNSTREAM FROM TOP



GUARDRAIL LOOKING NORTH



LOOKING SOUTH



GUARDRAIL SPACING AT BRIDGE