



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY ORANGE BRIDGE NUMBER 670023 INSPECTION CYCLE 2 YRS
SR1508 HAWKINS RD.
ROUTE SR1508 ACROSS SOUTH FORK LITTLE RIVER M.P. 0

LOCATION 0.5 MI. W. JCT. SR1507

SUPERSTRUCTURE TIMBER DECK ON TIMBER JOISTS

SUBSTRUCTURE END & INTERIOR BENTS: TIMBER CAPS & PILES

SPANS 1@17'9", 1@17'10"

LONGITUDE 79° 7' 5.9"

LATITUDE 36° 12' 21.6"

PRESENT CONDITION FAIR

INVENTORY RATING

INSPECTION DATE 05/01/2012

OPERATING RATING

PRESENT POSTING SV 17 TTST 24 SV 17 TTST 24

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT 2 NARROW BRIDGE, 4 DELINEATORS



LOOKING EAST

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

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

Run Date: 05/09/2012

IDENTIFICATION				CLASSIFICATION			
(1) STATE NAME -NORTH CAROLINA	BRIDGE	670023		SUFFICIENCY RATING =		58.47	
(8) STRUCTURE NUMBER(FEDERAL)		000000001350023		STATUS =	Functionally Obsolete		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31015080					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		1					
(3) COUNTY CODE	135	(4) PLACE CODE	00000	(112)NBIS BRIDGE SYSTEM -		YES	
(6) FEATURE INTERSECTED -	SOUTH FORK LITTLE RIVER			(104)HIGHWAY SYSTEM	Is not on NHS	0	
(7) FACILITY CARRIED	SR1508			(26) FUNCTIONAL CLASS -	Local	09	
(9) LOCATION	0.5 MI. W. JCT. SR1507			(100)STRAHNET HIGHWAY -	Not a STRAHNET Route	0	
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE -	No Parallel Structure	N	
(16)LAT	36° 12' 16.6"	(17)LONG	79° 7' 11.1"	(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:	Wood or Timber			(58) DECK		5	
TYPE -	Stringer Mutlibeam or Girder	CODE	702	(59) SUPERSTRUCTURE		7	
(44) STRUCTURE TYPE APPR :				(60) SUBSTRUCTURE		5	
TYPE -		CODE	0	(61) CHANNEL & CHANNEL PROTECTION		7	
(45) NUMBER OF SPANS IN MAIN UNIT			2	(62) CULVERTS		N	
(46) NUMBER OF APPROACH SPANS			0				
(107)DECK STRUCTURE TYPE -	8	CODE		LOAD RATING AND POSTING			
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(31) DESIGN LOAD	Other or Unknown	0	
(A) TYPE OF WEARING SURFACE -		CODE		(63) OPERATING RATING METHOD -	Allowable Stress		
(B) TYPE OF MEMBRANE -		CODE		(64) OPERATING RATING -	HS-15	227	
(C) TYPE OF DECK PROTECTION -		CODE		(65) INVENTORY RATING METHOD -	Allowable Stress		
				(66) INVENTORY RATING -	HS-11	219	
				(70) BRIDGE POSTING -	Posting Required	0	
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED		P	
				DESCRIPTION -	Posted for Load		
AGE AND SERVICE				APPRAISAL			
(27) YEAR BUILT			1955	(67) STRUCTURAL EVALUATION		5	
(106)YEAR RECONSTRUCTED				(68) DECK GEOMETRY		3	
(42) TYPE OF SERVICE : ON -	Highway			(69) UNDERCLEARANCES,VERTI & HORIZ		N	
UNDER -	Waterway	CODE	15	(71) WATERWAY ADEQUACY		7	
(28) LANES: ON STRUCTURE	2	UNDER STRUCTURE		(72) APPROACH ROADWAY ALIGNMENT		7	
(29) AVERAGE DAILY TRAFFIC			200	(36) TRAFFIC SAFETY FEATURES		0000	
(30) YEAR OF ADT	2010	(109) TRUCK ADT PCT	6%	(113)SCOUR CRITICAL BRIDGES		U	
(19) BYPASS OR DETOUR LENGTH			2 MI				
GEOMETRIC DATA				PROPOSED IMPROVEMENTS			
(48) LENGTH OF MAXIMUM SPAN			18 FT	(75) TYPE OF WORK -		CODE	
(49) STRUCTURE LENGTH			36 FT	(76) LENGTH OF STRUCTURE IMPROVEMENT			
(50)CURB OR SIDEWALK: LEFT	.3 FT	RIGHT	.3 FT	(94) BRIDGE IMPROVEMENT COST			
(51) BRIDGE ROADWAY WIDTH CURB TO CURB			19.2 FT	(95) ROADWAY IMPROVEMENT COST			
(52) DECK WIDTH OUT TO OUT			20.2 FT	(96) TOTAL PROJECT COST			
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)			18 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(33) BRIDGE MEDIAN -	No Median	CODE	0	(114)FUTURE ADT	600	(115) YEAR FUTURE ADT	2025
(34) SKEW	0°	(35) STRUCTURE FLARED	0				
(10) INVENTORY ROUTE MIN VERT CLEAR			999.9 FT	INSPECTIONS			
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR			19.2 FT	(90) INSPECTION DATE		05/01/2012	
(53) MIN VERT CLEAR OVER BRIDGE RDWY			999.9 FT	(92) CRITICAL FEATURE INSPECTION :		(93) CFI DATE	
(54) MIN VERT UNDERCLEAR REF	Not a Highway or Railroad		0 FT	A) FRACTURE CRIT DETAIL -	NO	A)	
(55) MIN LAT UNDERCLEAR RT REF	Not a Highway or Railroad		000 FT	B) UNDERWATER INSP -	NO	B)	
(56) MIN LAT UNDERCLEAR LT REF -			000 FT	C) OTHER SPECIAL INSP	NO	C)	
				SCOUR			
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: 05/09/2012

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
ORANGE	7	1	670023	36	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1508	SOUTH FORK LITTLE RIVER

LOCATED :	BRIDGE NAME :	CITY :
0.5 MI. W. JCT. SR1507		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	200 2010	LT 227 RT 227

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1955	BMU			Other or Unknown

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :
	BMU		TAN	90	ON 2 UNDER

NAVIGATION :	HT. CRN. TO BED :	WATER DEPTH :
VC 0 FT HC 0 FT 8 FT 1 FT		

SUPERSTRUCTURE :	TIMBER DECK ON TIMBER JOISTS
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SUBSTRUCTURE :	END & INTERIOR BENTS: TIMBER CAPS & PILES
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SPANS :	1@17'9", 1@17'10"
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BEAMS OR GIRDERS :	SP#1:13 LINES,SP#2:14 LINES 6"X12" TIMBER JOISTS @ 1'6" CTS.
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FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
4X8"TIM,1. 5"AWS		20.2 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
19.2 FT	19.8 FT	LT .3 FT RT .3 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	TTST	DATE
HS-11	HS-15	JOIST INT.	SV 17	24	09/19/2008

SYSTEM :	GREEN LINE ROUTE :
Secondary S.R. Route	N

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection
 BRIDGE NO. 670023 COUNTY ORANGE ROUTE SR1508 OVER SOUTH FORK LITTLE RIVER
 STRUCTURE TYPE TIMBER DECK ON TIMBER JOISTS
 ROUTE ORIENTATION W - E SPANS 1@17'9", 1@17'10"

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

INSPECTION ITEM				ITEM 61		
DECK ITEMS			GRADES	45. CHANNEL & CHANNEL PROT.		
1. WEARING SURFACE			P	a. WATERWAY	G	
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58				b. ALIGNMENT	G	
a. CONCRETE				c. SCOUR	G	
b. TIMBER			2	d. SLOPE PROT., RIP-RAP, DIKES, ETC.		
c. STEEL PLANK				50. APPROACH ROADWAY CONDITION		
d. OPEN GRID				51. APPROACH SLABS		
3. RAILING				52. PAINT SYSTEM CODE		
a. CONCRETE				53. UTILITIES		
b. TIMBER			F	54. RESPONSE TO LIVE LOAD		
c. ALUMINUM				55. ESTIMATED REMAINING LIFE		
d. STEEL				12		
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			F			
5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)				60. REGULATORY SIGN NOTICE ISSUED		
6. DECK EXP JTS. OR DEVICES. NO. OF EACH				61. PROMPT-ACTION NOTICE ISSUED		
a. STEEL PL OR FINGER				62. PRESENTLY POSTED		
b. MISC PREFAB				63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)		
c. COMPRESSION SEAL				4		
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	5
10. LONGITUDINAL BEAMS OR GIRDERS				b. SUPERSTRUCTURE	ITEM 59	7
11. LONGITUDINAL JOIST OR STRINGERS			G	c. SUBSTRUCTURE	ITEM 60	5
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S				d. CHANNEL & CHANNEL PROT.	ITEM 61	7
13. END DIAP'S, CURTAIN WALLS, & CONN'S						
14. FLOOR BEAMS AND CONNECTIONS				71. SI&A FIELD APPRAISAL RATINGS		
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)				a. WATERWAY ADAQUACY	7	
16. DRAINAGE SYSTEM (ON STRUCTURE)			G	b. APPR. RDWY. ALIGNMENT	7	
17. MOVABLE SPAN MACHINERY						
				72. FIELD SCOUR EVALUATION		
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)						
35. TIM SUB STR.				USE OF INSP. ACCESSIBILITY EQUIPMENT		
a. ABUT. & INT. BENT CAPS & RISERS			G	SNOOPER (CODE S, 4, OR N) HRS		
b. PILES, POST, SILLS, & BRACING			F	LADDER		
c. BULKHEADS, WING'S, & TIE BACKS			F	NO		
36. CONC SUB STR.				BUCKET TRUCK		
a. ABUT. & INT. BENT CAPS				BOAT		
b. ABUT. & BENT COL'S BREASTWALLS				OTHER		
c. ABUT. & INT. BENT PILES						
d. BACKWALLS, WING'S, RETAIN. WALLS						
e. ABUT. & BENT FOOTINGS & SILLS						
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: 		
41. DRIFT			G	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 Inspeccion & Analysis</u>	
Team Leader TERRY MELTON			
Assisted By D.HACKNEY			
Item No.	Grade		
1	P	AWS CRACKED ALONG TIMBER DECKING EDGES AND COMING OFF ALONG EDGES.	
2b	F	TIMBER DECKING LOOSE AND REBOUNDING UNDER LOADS.	
3b	F	SPAN 1 RIGHT SIDE LEANING OUTWARD, 1". TIMBER WEATHERED AND CHECKED.	
4	F	TIMBERS WEATHERED AND CHECKED, 2 SECTIONS REPLACED, SPAN 1 RIGHT SIDE, SPAN 2 LEFT SIDE.	
10A	NO	NO CURVED GIRDERS.	
35b	F	TIMBERS WEATHERED AND CHECKED WITH DELAM AROUND CHECK CRACKS. PILE 1 AT END BENT 1 SHOWING OUTER SHELL DECAY ALONG GROUND LINE, UP TO 1.5"DEEP X 15" HIGH	
35c	F	BULKHEAD TIMBERS SHOWING SPOTS OF DECAY ON BOTH END BENTS.	
50	F	BOTH APPROACHES CRACKED AND SETTLED, 1".	
62	YES	SV- 17; TTST- 24	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 670023

County ORANGE

Date: 05/01/2012

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
2816	Asphalt Surface Repair or Replacement	SY	240	AWS CRACKED AND BUSTING UP ALONG EDGES, APPROACHES SETTLED	
3344	Repair / Replace Timber Substructure Components	LF	5	PILE 1 AT END BENT 1 SHOWING SHELL DECAY AROUND BASE	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined



CRACKING AT WEST END APPROACH



SETTLEMENT AT WEST END APPROACH



CRACKING ON WEAR SURFACE AT END BENT 1



CRACKING ON WEAR SURFACE AT TIMBER DECK BOARD JOINTS



CRACKING ON WEAR SURFACE AT END BENT 2



CRACKING AND SETTLEMENT AT EAST END APPROACH



LONGITUDINAL CRACKING ON DECK



DECAY ON BULKHEAD TIMBERS AT SOUTHWEST END



DECAY ON BULKHEAD AT END BENT 1 BEHIND PILE 1



DECAY ON PILE 1 AT END BENT 1



BOARD MISSING AT NORTHWEST WING

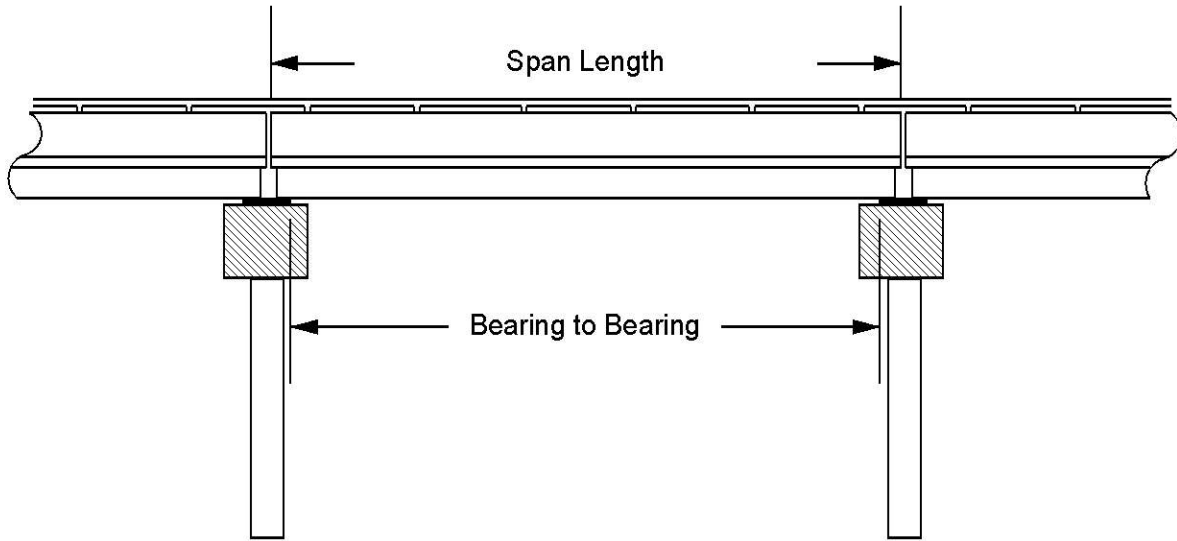


DAMAGE ON RAIL AT SOUTHWEST CORNER

Structure Data Worksheet

Spans

County: ORANGE Structure No: 670023 Date: 05/01/2012 Inspected By: TFM



Span No	Span Length	Bearing to Bearing	Comments
1	17.833	17.083	NBIS BL 33.667
2	17.833	17.083	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 670023 County: ORANGE Date: 05/01/2012 By: TFM

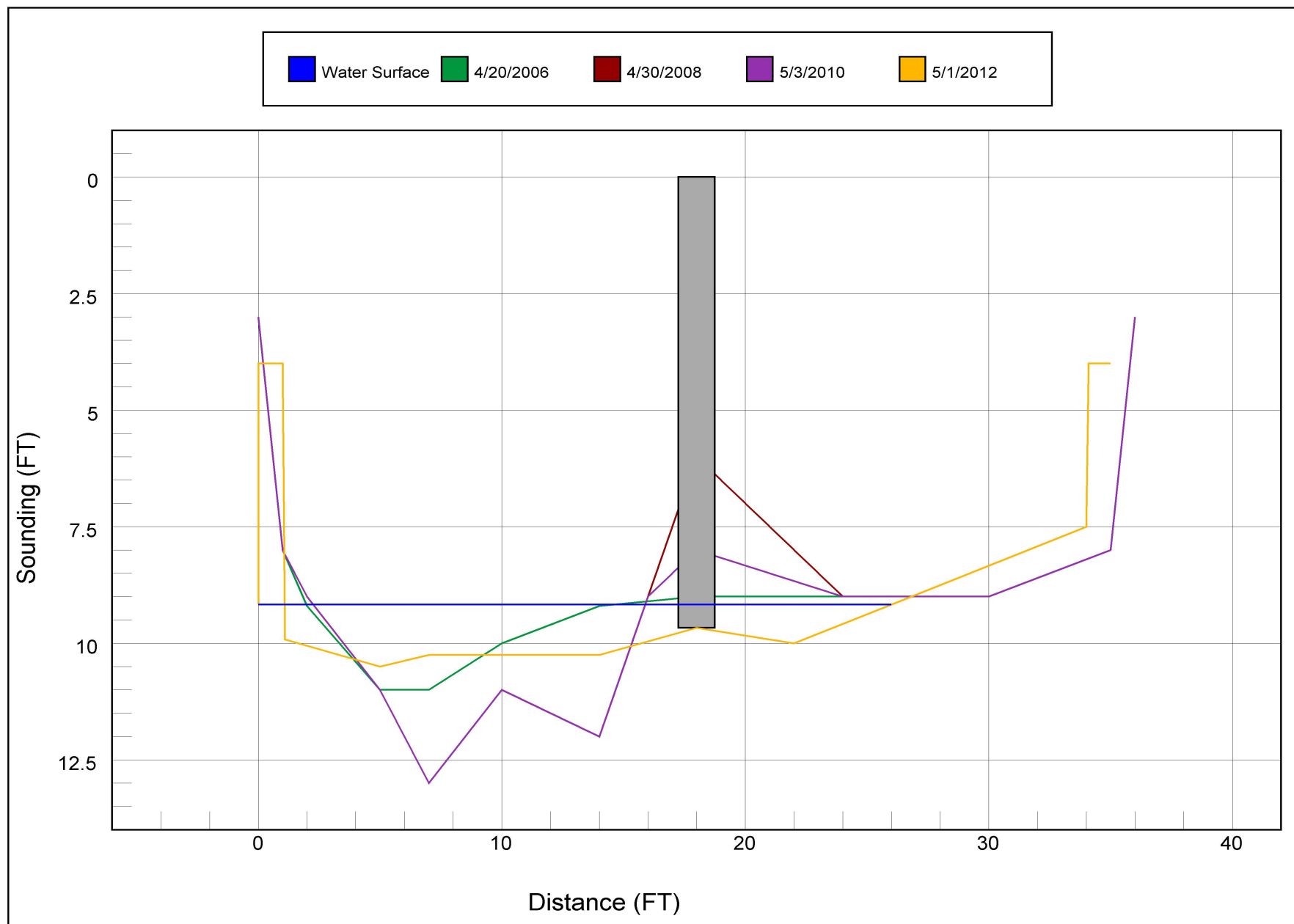
Record sounding from top of rail. Other location if needed: _____

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	9.17	Water Surface/Water Edge (WSWE)			
0.01	4	Top of Cap			
1	4	Top of Cap	1	8	END BENT 1
1.1	9.92				
5	10.5				
7	10.25				
10	10.25				
14	10.25				
18	9.67	PIER	18	10.92	PIER
22	10				
26	9.17	Water Surface/Water Edge (WSWE)			
34	7.5				
34.1	4				
35	4		35	8	END BENT 2

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



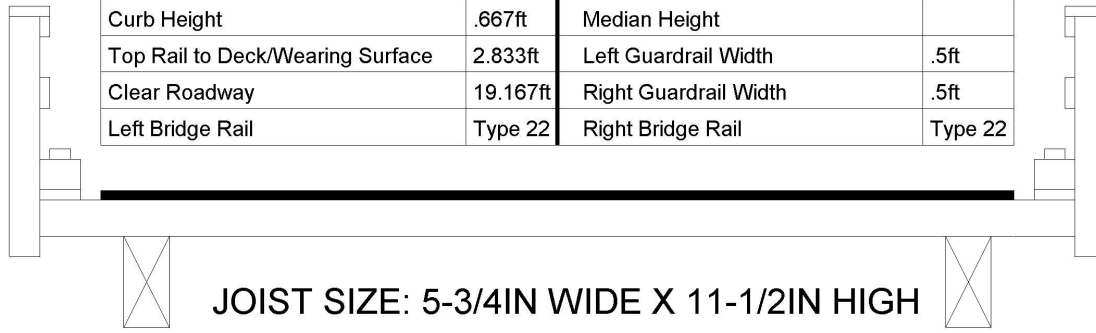
Roadway	18ft Wide	2 Paved Lanes	Looking East
Left Shoulder	6ft Wide		6ft Unpaved
Right Shoulder	6ft Wide		6ft Unpaved

MEASUREMENTS VERIFIED BY DH 5/1/2012

Title		Description	
APPROACH ROADWAY SKETCH		APPROACH ROADWAY SKETCH	
Bridge No: 670023	Drawn By: GDP	Date: 04/30/08	File Name: S0066001230

Bridge Inspection Field Sketch

Deck Width/Out to Out	20.167ft	Wearing Surface	.123ft
Between Rails	19.833ft	Median Width	
Curb Height	.667ft	Median Height	
Top Rail to Deck/Wearing Surface	2.833ft	Left Guardrail Width	.5ft
Clear Roadway	19.167ft	Right Guardrail Width	.5ft
Left Bridge Rail	Type 22	Right Bridge Rail	Type 22



JOIST SIZE: 5-3/4IN WIDE X 11-1/2IN HIGH

Measurements for Span #	2		
Deck Thickness	.313	Left Overhang	1.083
Top of Rail to Bottom of Beam	4.25	Right Overhang	1.083

Beam No	Beam Type	Spacing	Comments
1	Timber (Rectangular)	1ft	OTHER SPAN SIMILAR
2	Timber (Rectangular)	1.5ft	
3	Timber (Rectangular)	1.5ft	
4	Timber (Rectangular)	1.5ft	
5	Timber (Rectangular)	1.5ft	
6	Timber (Rectangular)	1.5ft	
7	Timber (Rectangular)	1ft	
8	Timber (Rectangular)	1.5ft	
9	Timber (Rectangular)	1.5ft	
10	Timber (Rectangular)	1.5ft	
11	Timber (Rectangular)	1.5ft	
12	Timber (Rectangular)	1.5ft	
13	Timber (Rectangular)	1ft	
14	Timber (Rectangular)		

MEASUREMENTS VERIFIED BY DH 5/1/2012

Title		Description	
STRUCTURE DATA SKETCH		STRUCTURE DATA SKETCH	
Bridge No: 670023	Drawn By: GDP	Date: 04/30/08	File Name: S0066001231

Bridge Inspection Field Sketch

Cap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.		Right Beam to End of Cap.			
21.920 ft.	.959 ft.	.959 ft.	2.500 ft.	2.420 ft.	2.000 ft.		2.000 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	Timber	6.5 ft.	1 ft.				No	No	No	No
2	Timber	4.08 ft.	1 ft.				No	No	No	No
3	Timber	6.42 ft.	1 ft.				No	No	No	No
4	Timber		1 ft.				No	No	No	No

Title		Description	
END BENT 1		PILE DIAGRAM END BENTS	
Bridge No: 670023	Drawn By: DH	Date: 5/1/2012	File Name: S0066001232

Bridge Inspection Field Sketch

Cap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.			Right Beam to End of Cap.		
22.080 ft.	.959 ft.	.959 ft.	2.250 ft.	2.250 ft.	2.000 ft.			2.000 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	Timber	6 ft.	1 ft.				No	No	No	No
2	Timber	5.58 ft.	1 ft.				No	No	No	No
3	Timber	6 ft.	1 ft.				No	No	No	No
4	Timber		1 ft.				No	No	No	No
PIER 1 Similar Bents:										

Title

PILE DIAGRAM PIER

Description	PILE DIAGRAM PIER
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PILE DIAGRAM PIER

File Name: S0066001233

Bridge Inspection Field Sketch

Cap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.		Right Beam to End of Cap.			
22.080 ft.	.959 ft.	.959 ft.	2.580 ft.	2.500 ft.	1.920 ft.		1.920 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	Timber	6.67 ft.	1 ft.				No	No	No	No
2	Timber	3.83 ft.	1 ft.				No	No	No	No
3	Timber	6.5 ft.	1 ft.				No	No	No	No
4	Timber		1 ft.				No	No	No	No

Title END BENT 2		Description END BENT 2	
Bridge No: 670023	Drawn By: DH	Date: 5/1/2012	File Name: S0066074539



NARROW BRIDGE SIGN



LOOKING EAST



WEIGHT LIMIT SIGN



WEST END APPROACH



WEAR SURFACE ON DECK



WEAR SURFACE AT END BENT 1



WEAR SURFACE ON DECK



WEAR SURFACE AT END BENT 2



EAST END APPROACH



LOOKING WEST



END BENT 2



PIER 1



LOOKING DOWNSTREAM



LOOKING UPSTREAM



UNDERSIDE OF SPAN 1



END BENT 1



LOOKING AT SOUTH SIDE



LOOKING AT NORTH SIDE



LOOKING UPSTREAM



LOOKING DOWNSTREAM