



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY JACKSON BRIDGE NUMBER 490164 INSPECTION CYCLE 2 YRS
ROUTE SR1462 ACROSS WOODFIN CREEK M.P. 0

LOCATION 100 FT.N.JCT.SR1463

SUPERSTRUCTURE TIMBER FLOOR ON TIMBER JOISTS

SUBSTRUCTURE E.BTS:TIM.CAPS/TIMBER POST&SILLS @ VAR. CENTERS

SPANS 1 @ 20'-6

LONGITUDE 83° 6' 23.0"

LATITUDE 35° 25' 47.0"

PRESENT CONDITION GOOD

INVENTORY RATING

INSPECTION DATE 03/05/2012

OPERATING RATING

PRESENT POSTING SV 24 TTST 37

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT DELINEATORS [4] AND NARROW BRIDGE [2]



LOOKING NORTH

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: 03/30/2012

IDENTIFICATION					
(1) STATE NAME -NORTH CAROLINA	BRIDGE	490164	SUFFICIENCY RATING =		9
(8) STRUCTURE NUMBER(FEDERAL)	000000000990164	STATUS =		Structurally Deficient	
(5) INVENTORY ROUTE (ON/UNDER) - ON	31014620				
(2) STATE HIGHWAY DEPARTMENT DISTRICT	2				
(3) COUNTY CODE 99	(4) PLACE CODE	00000			
(6) FEATURE INTERSECTED - WOODFIN CREEK					
(7) FACILITY CARRIED SR1462					
(9) LOCATION 100 FT.N.JCT.SR1463					
(11)MILEPOINT	0				
(16)LAT 35° 25' 47.4"	(17)LONG	83° 6' 22.4"			
(98)BORDER BRIDGE STATE CODE	PCT SHARE				
(99)BORDER BRIDGE STRUCTURE NO					
STRUCTURE TYPE AND MATERIAL				CLASSIFICATION	
(43) STRUCTURE TYPE MAIN: Wood or Timber			(112)NBIS BRIDGE SYSTEM -	NO	
TYPE - Stringer Mutlibeam or Girder	CODE	702	(104)HIGHWAY SYSTEM	Is not on NHS 0	
(44) STRUCTURE TYPE APPR :			(26) FUNCTIONAL CLASS -	Local 09	
TYPE -	CODE	000	(100)STRAHNET HIGHWAY -	Not a STRAHNET Route 0	
(45) NUMBER OF SPANS IN MAIN UNIT	1	(101)PARALLEL STRUCTURE -		No Parallel Structure N	
(46) NUMBER OF APPROACH SPANS			(102)DIRECTION OF TRAFFIC -	2-way Traffic 2	
(107)DECK STRUCTURE TYPE - 8	CODE		(103)TEMPORARY STRUCTURE -	Temporary Structure/Conditions T	
(108)WEARING SURFACE / PROTECTIVE SYSTEM :			(110)DESIGNATED NATIONAL NETWORK -	Not on the National Network 0	
(A) TYPE OF WEARING SURFACE -	CODE		(20) TOLL	On Free Road 3	
(B) TYPE OF MEMBRANE -	CODE		(31) MAINTAIN -	State Highway Agency 01	
(C) TYPE OF DECK PROTECTION -	CODE		(22) OWNER -	State Highway Agency 01	
			(37) HISTORICAL SIGNIFICANCE -	Not Eligible 5	
				CONDITION	
(58) DECK			7		
(59) SUPERSTRUCTURE			7		
(60) SUBSTRUCTURE			4		
(61) CHANNEL & CHANNEL PROTECTION			7		
(62) CULVERTS			N		
				LOAD RATING AND POSTING	
(31) DESIGN LOAD	Other or Unknown		0		
(63) OPERATING RATING METHOD -	Allowable Stress				
(64) OPERATING RATING -	HS-1		201		
(65) INVENTORY RATING METHOD -	Allowable Stress				
(66) INVENTORY RATING -	HS-1		201		
(70) BRIDGE POSTING -	Posting Required		3		
(41) STRUCTURE OPEN, POSTED ,OR CLOSED			P		
DESCRIPTION -	Posted for Load				
				APPRAISAL	
(67) STRUCTURAL EVALUATION			4		
(68) DECK GEOMETRY			3		
(69) UNDERCLEARANCES,VERTI & HORIZ			N		
(71) WATERWAY ADEQUACY			7		
(72) APPROACH ROADWAY ALIGNMENT			7		
(36) TRAFFIC SAFETY FEATURES			0000		
(113)SCOUR CRITICAL BRIDGES			U		
				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 660	(115) YEAR FUTURE ADT	2025			
				INSPECTIONS	
(90) INSPECTION DATE			03/05/2012		
(92) CRITICAL FEATURE INSPECTION :			(93) CFI DATE		
A) FRACTURE CRIT DETAIL -	NO		A)		
B) UNDERWATER INSP -	NO		B)		
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: 03/30/2012

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
JACKSON	14	2	490164	21	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1462	WOODFIN CREEK

LOCATED :	BRIDGE NAME :	CITY :
100 FT.N.JCT.SR1463		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	330 2000	LT 227 RT 227

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1957	BMU			Other or Unknown

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :
	BMU		TAN	80	ON 2 UNDER

NAVIGATION :	HT. CRN. TO BED :	WATER DEPTH :
VC 0 FT HC 0 FT	10 FT	1 FT

SUPERSTRUCTURE :	TIMBER FLOOR ON TIMBER JOISTS
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SUBSTRUCTURE :	E.BTS:TIM.CAPS/TIMBER POST&SILLS @ VAR. CENTERS
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SPANS :	1 @ 20'-6
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BEAMS OR GIRDERS :	15 LINES 6X14 TIMBER JOISTS @ 1'-3.5 CENTERS
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FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
4X8 TIM/2 AWS	PVC PIPE	20 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
19.1 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-1	HS-1	Int Joist	SV 24	37	10/30/2008

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. 490164 COUNTY JACKSON ROUTE SR1462 OVER WOODFIN CREEK
 STRUCTURE TYPE TIMBER FLOOR ON TIMBER JOISTS
 ROUTE ORIENTATION S - N SPANS 1 @ 20'-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			F	45. CHANNEL & CHANNEL PROT.	a. WATERWAY	G	
					b. ALIGNMENT	G	
					c. SCOUR	G	
					d. SLOPE PROT., RIP-RAP, DIKES, ETC.		
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58	a. CONCRETE			50. APPROACH ROADWAY CONDITION			G
	b. TIMBER	1	G	51. APPROACH SLABS			
	c. STEEL PLANK			52. PAINT SYSTEM			CODE
	d. OPEN GRID			53. UTILITIES			
3. RAILING	a. CONCRETE			54. RESPONSE TO LIVE LOAD			G
	b. TIMBER		G	55. ESTIMATED REMAINING LIFE			12
	c. ALUMINUM						
	d. STEEL						
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			G	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	a. STEEL PL OR FINGER			62. PRESENTLY POSTED			YES
	b. MISC PREFAB			63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)			4
	c. COMPRESSION SEAL			64. TOTAL SNOOPER INSP. TIME (HRS)			
	d. STANDARD JOINTS			65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)			
	e. OPEN JOINTS						
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				b. SUPERSTRUCTURE	ITEM 59	7	
11. LONGITUDINAL JOIST OR STRINGERS			G	c. SUBSTRUCTURE	ITEM 60	7	
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S				d. CHANNEL & CHANNEL PROT.	ITEM 61	7	
13. END DIAP'S, CURTAIN WALLS, & CONN'S				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)			G	72. FIELD SCOUR EVALUATION			L
17. MOVABLE SPAN MACHINERY							
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)				USE OF INSP. ACCESSIBILITY EQUIPMENT			
35. TIM SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS		G	SNOOPER (CODE S, 4, OR N)			HRS
	b. PILES, POST, SILLS, & BRACING		G	LADDER			NO
	c. BULKHEADS, WING'S, & TIE BACKS		G	BUCKET TRUCK			NO
36. CONC SUB STR.	a. ABUT. & INT. BENT CAPS			BOAT			NO
	b. ABUT. & BENT COL'S BREASTWALLS			OTHER			NO
	c. ABUT. & INT. BENT PILES						
	d. BACKWALLS, WING'S, RETAIN. WALLS						
	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)							
40. FENDER SYSTEMS				80. INSPECTED BY:	W. B. J. 2/18		
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 Inspection & Analysis</u>	
Team Leader BARRY FOXX			
Assisted By DAVID SANDERS			
Item No.	Grade		
1	F	WEARING SURFACE; 1' WIDE X 2' LONG AREA OF ASPHALT HAS COME UP NEAR SOUTH END OF BRIDGE. [SEE PHOTO]. WEARING SURFACE IS IN OTHERWISE GOOD CONDITION.	
7	G	DECK DEBRIS AND DRAINAGE; UP TO 1" THICK BUILDUP OF PINE NEEDLES ALONG BOTH SIDES OF BRIDGE. CONDITION IS NOT CAUSING MUCH OF A PROBLEM AS YET.	
16	G	DRAINAGE SYSTEM; SEE ITEM 7 FOR ADDITIONAL INFORMATION.	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 490164

County JACKSON

Date: 03/05/2012

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	1	1' WIDE X 2' LONG AREA OF ASPHALT IS MISSING ON SOUTH END OF BRIDGE.	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined



AREAS OF MISSING ASPHALT WEARING SURFACE.

Structure Data Worksheet

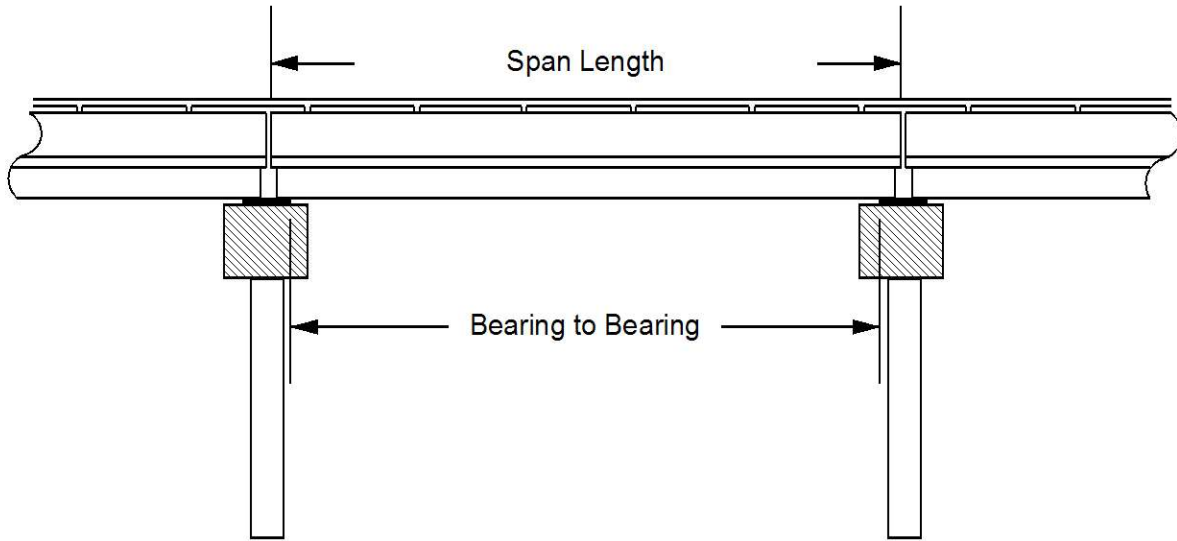
Spans

County: JACKSON

Structure No: 490164

Date: 03/05/2012

Inspected By: WBF



Span No	Span Length	Bearing to Bearing	Comments
1	20.5	19.1667	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 490164 County: JACKSON Date: 03/05/2012 By: WBF

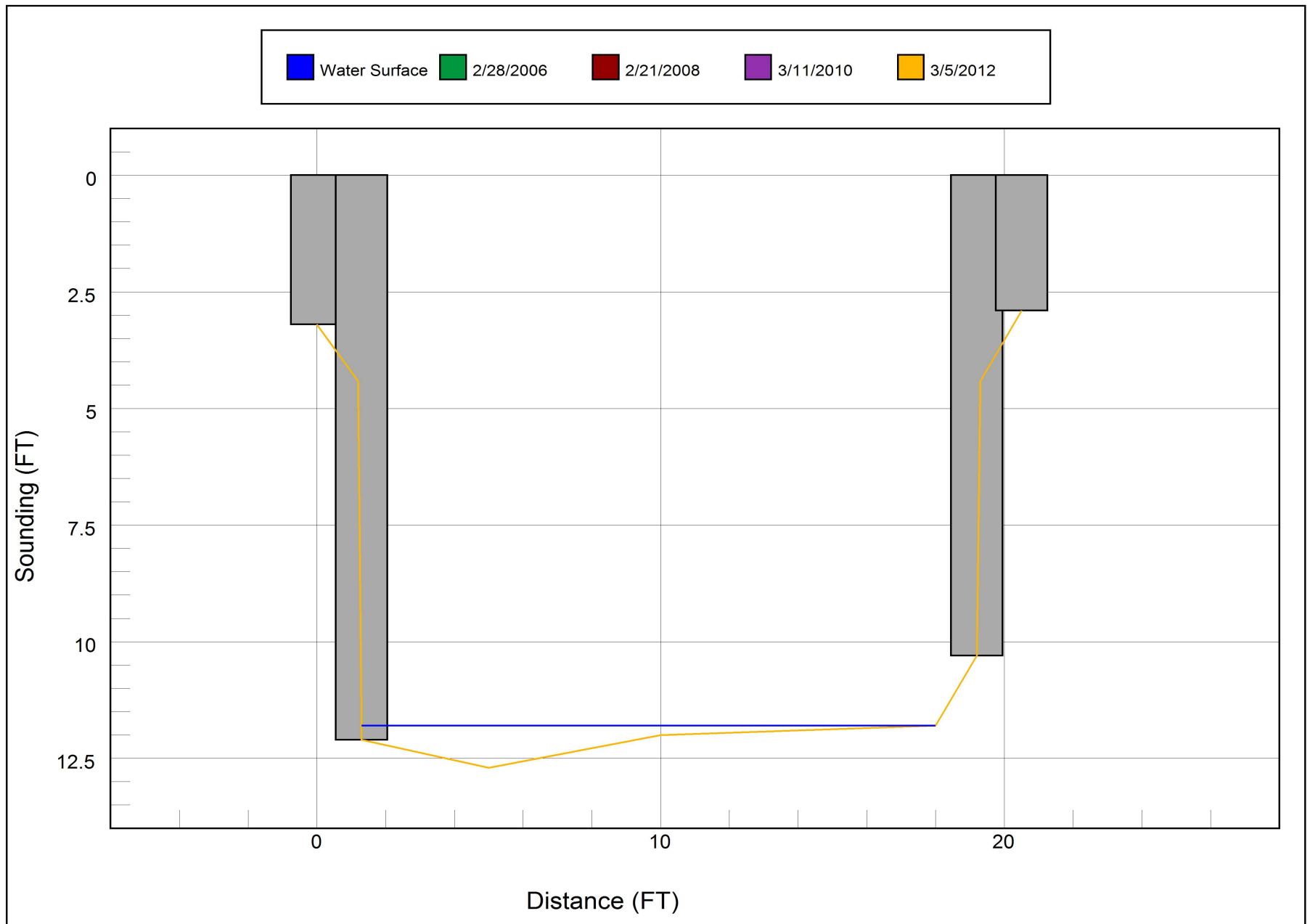
Record sounding from top of rail. Other location if needed:

Distance from Highwater Mark to top of rail: Location of Highwater Mark: NOT DETECTED

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	3.2	FILL FACE ABUTMENT 1	0	2.8	FILL FACE ABUTMENT 1
1.2	4.417	Top of Cap			
1.3	11.8	Water Surface/Water Edge (WSWE)	1.3	11.9	STREAM FACE ABUTMENT 1
1.3	12.1	STREAM FACE ABUTMENT 1			
5	12.7				
10	12				
18	11.8	Water Surface/Water Edge (WSWE)			
19.2	10.3	STREAM FACE ABUTMENT 2	19.2	10.4	STREAM FACE ABUTMENT 2
19.3	4.417	Top of Cap			
20.5	2.9	FILL FACE ABUTMENT 2	20.5	2.8	FILL FACE ABUTMENT 2

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

VERIFIED BY DAVID SANDERS ON 3/5/12.



Roadway	18ft Wide	2 Paved Lanes	Looking North
Left Shoulder	2ft Wide		2ft Unpaved
Right Shoulder	2ft Wide		2ft Unpaved
Left Guardrail			
Right Guardrail			

Title

APPROACH ROADWAY

Description

APPROACH ROADWAY

Bridge No: 490164

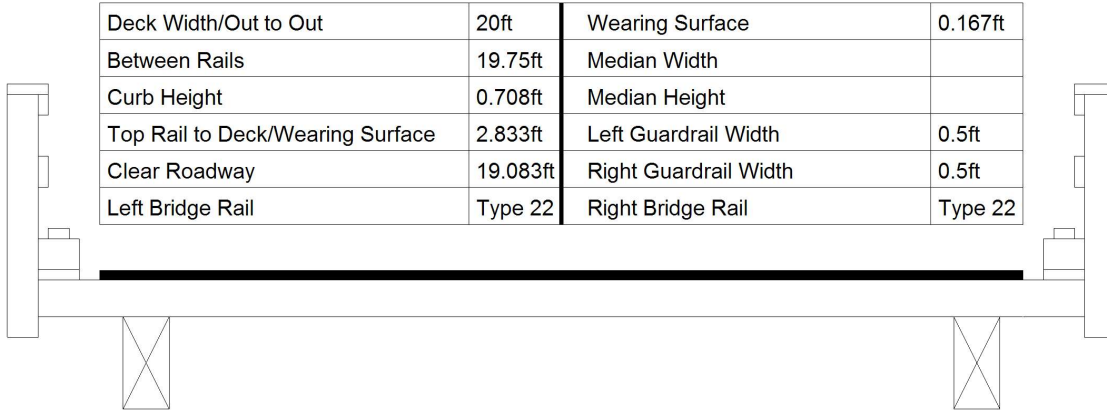
Drawn By: DAVID SANDERS

Date: 3/5/2012

File Name: S0118001028

Bridge Inspection Field Sketch

VERIFIED BY DAVID SANDERS ON 3/5/12.



Measurements for Span #	1		
Deck Thickness	0.312	Left Overhang	1
Top of Rail to Bottom of Beam	4.417	Right Overhang	1

Beam No	Beam Type	Spacing	Comments
1	Timber (Rectangular)	1.2917ft	JOIST ARE .4792 WIDE X 1.1458 HIGH
2	Timber (Rectangular)	1.2917ft	
3	Timber (Rectangular)	1.2917ft	
4	Timber (Rectangular)	1.2917ft	
5	Timber (Rectangular)	1.2917ft	
6	Timber (Rectangular)	1.2917ft	
7	Timber (Rectangular)	1.2917ft	
8	Timber (Rectangular)	1.2917ft	
9	Timber (Rectangular)	1.2917ft	
10	Timber (Rectangular)	1.2917ft	
11	Timber (Rectangular)	1.2917ft	
12	Timber (Rectangular)	1.2917ft	
13	Timber (Rectangular)	1.2917ft	
14	Timber (Rectangular)	1.2917ft	
15	Timber (Rectangular)		

Title

SUPER

Description

SUPER

Bridge No: 490164

Drawn By: DAVID SANDERS

Date: 3/5/2012

File Name: S0118001029

Bridge Inspection Field Sketch

VERIFIED BY DAVID SANDERS ON 3/5/12.



Abutment #	1	Abutment 2 similar	
Cap - Beam Type (Wood or Steel)			
Cap Size	22.167ft Long	0.833ft Wide	0.979ft High
Left Overhang	0.667ft	Lt Cap/Beam Overhang	1ft
Right Overhang	0.833ft	Rt Cap/Beam Overhang	1ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Post and Sills	4.1667		.8125	.9792	Vertical
2	Wood or Timber	Post and Sills	4.9167		.8125	.9792	Vertical
3	Wood or Timber	Post and Sills	2.25		.8125	.9792	Vertical
4	Wood or Timber	Post and Sills	4.25		.8125	.9792	Vertical
5	Wood or Timber	Post and Sills	5.0833		.8125	.9792	Vertical
6	Wood or Timber	Post and Sills			.8125	.9792	Vertical

POST 4 AND 6 AT ABUTMENT 2 ARE .8125 X .8125. ALL OTHERS SAME AS ABUTMENT 1.

THE ORIGINAL POST REMAIN IN PLACE HOWEVER THERE IS A .25 GAP
BETWEEN TOP OF POST AND BOTTOM OF CAP - NO CENTERS GIVEN.

Title		Description		
ABUTMENTS		ABUTMENTS		
Bridge No:	490164	Drawn By:	DAVID SANDERS	Date: 3/5/2012
				File Name: S0118001030



LOOKING NORTH



LOOKING UPSTREAM FROM TOP OF BRIDGE.



LOOKING DOWNSTREAM FROM TOP OF BRIDGE.



LOOKING SOUTH- BRIDGE IS POSTED SV 24 TTST 37 TONS.



UPSTREAM



ABUTMENT 2



REP. OF UNDERISDE



ABUTMENT 1



DOWNSTREAM