



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 BRIDGE MANAGEMENT UNIT

ATTENTION

TEMPORARY REPAIRED PILES.

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY PENDER BRIDGE NUMBER 700117 INSPECTION CYCLE 2 YRS
 ROUTE SR1520 ACROSS HOLLY SHELTER CREEK M.P. 0

LOCATION 3.0MI.S.JCT.NC50

SUPERSTRUCTURE TIMBER FLOOR/TIMBER JOISTS

SUBSTRUCTURE E.BTS&BTS:TIMBER CAPS/TIMBER PILES;TIM.CRUTCH BTS.

SPANS 1@9';1@8'3';2@8'8';1@8'6';1@8'4';1@7'11';1@9'10

LONGITUDE 77° 43' 49.5"

LATITUDE 34° 38' 26.0"

PRESENT CONDITION FAIR

INVENTORY RATING HS-01

INSPECTION DATE 10/22/2010

OPERATING RATING HS-01

PRESENT POSTING Not Posted Not Posted

PROPOSED POSTING N.P.

COMPUTER UPDATE 11-18-10

ANALYSIS DATE 11-15-10

POSTING LETTER DATE _____

SUFFICIENCY RATING _____

OTHER SIGNS PRESENT 4 DELINEATORS.



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: 11/19/2010

IDENTIFICATION				CLASSIFICATION			
(1) STATE NAME -NORTH CAROLINA	BRIDGE	700117		SUFFICIENCY RATING =			12.7
(8) STRUCTURE NUMBER(FEDERAL)		000000001410117		STATUS =	Structurally Deficient		
INVENTORY ROUTE (ON/UNDER) - ON		131015200					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		3					
(3) COUNTY CODE 141	(4) PLACE CODE	00000		(112)NBIS BRIDGE SYSTEM -			YES
(6) FEATURE INTERSECTED - HOLLY SHELTER CREEK				(104)HIGHWAY SYSTEM	NON NHS Route		0
(7) FACILITY CARRIED SR1520				(26) FUNCTIONAL CLASS -	Local		09
(9) LOCATION 3.0MI.S.JCT.NC50				(100)STRAHNET HIGHWAY -	Not a STRAHNET Route		0
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE -	No Parallel Structure		N
(16)LAT 34° 38' 26.0"	(17)LONG	77° 43' 49.5"		(102)DIRECTION OF TRAFFIC -	2-way Traffic		2
(98)BORDER BRIDGE STATE CODE	PCT SHARE			(103)TEMPORARY STRUCTURE -	Temporary		T
(99)BORDER BRIDGE STRUCTURE NO				(110)DESIGNATED NATIONAL NETWORK -	Not Part of		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 Multibeam or Girder	CODE	702		(59) SUPERSTRUCTURE			5
(44) STRUCTURE TYPE APPR :				(60) SUBSTRUCTURE			3
TYPE -	CODE			(61) CHANNEL & CHANNEL PROTECTION			5
(45) NUMBER OF SPANS IN MAIN UNIT		8		(62) CULVERTS			N
(46) NUMBER OF APPROACH SPANS							
(107)DECK STRUCTURE TYPE - Timber	CODE	8		LOAD RATING AND POSTING			
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(31) DESIGN LOAD	Other or Unknown		0
(A) TYPE OF WEARING SURFACE - Bituminous	CODE	6		(64) OPERATING RATING -	HS-1		101
(B) TYPE OF MEMBRANE - None	CODE	0		(66) INVENTORY RATING -	HS-1		101
(C) TYPE OF DECK PROTECTION - None	CODE	0		(70) BRIDGE POSTING -	No Posting Required		5
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED			D
				DESCRIPTION -	Open Temporary Shoring		
AGE AND SERVICE				APPRAISAL			
(27) YEAR BUILT		1956		(67) STRUCTURAL EVALUATION			2
(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			5
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE				(72) APPROACH ROADWAY ALIGNMENT			8
(29) AVERAGE DAILY TRAFFIC		320		(36) TRAFFIC SAFETY FEATURES			0000
(30) YEAR OF ADT 2009	(109) TRUCK ADT PCT	6 %		(113)SCOUR CRITICAL BRIDGES			U
(19) BYPASS OR DETOUR LENGTH		18 MI		SCOUR PLAN OF ACTION	Z		
GEOMETRIC DATA				PROPOSED IMPROVEMENTS			
(48) LENGTH OF MAXIMUM SPAN		10 FT		(75) TYPE OF WORK -			CODE
(49) STRUCTURE LENGTH		69 FT		(76) LENGTH OF STRUCTURE IMPROVEMENT			0 FT
(50)CURB OR SIDEWALK: LEFT 0.3 FT RIGHT		0.3 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		20.3 FT		(96) TOTAL PROJECT COST			
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		19.0 FT		(97) YEAR OF IMPROVEMENT COST ESTIMATE			20
(33) BRIDGE MEDIAN - No Median	CODE	0		(114)FUTURE ADT 640	(115) YEAR FUTURE ADT	2025	
(34) SKEW 0° (35) STRUCTURE FLARED		NO		INSPECTIONS			
(10) INVENTORY ROUTE MIN VERT CLEAR		99 FT 99 IN		(90) INSPECTION DATE			10/22/2010
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		19.2 FT		(92) CRITICAL FEATURE INSPECTION :		(93) CFI DATE	
(53) MIN VERT CLEAR OVER BRIDGE RDWY		99 FT 99 IN		A) FRACTURE CRIT DETAIL -	NO	A)	
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad				B) UNDERWATER INSP -	YES 48Mo	B)	03/01/2007
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad		99.9 FT		C) OTHER SPECIAL INSP	NO	C)	
(56) MIN LAT UNDERCLEAR LT REF -		0.0 FT		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. 700117 COUNTY PENDER ROUTE SR1520 OVER HOLLY SHELTER CREEK
 STRUCTURE TYPE TIMBER FLOOR/TIMBER JOISTS
 ROUTE ORIENTATION S - N SPANS 1@9';1@8'3;2@8'8;1@8'6;1@8'4;1@7'11;1@9'10

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

INSPECTION ITEM			ITEM 61		
DECK ITEMS		GRADES			
1. WEARING SURFACE		5	45. CHANNEL & CHANNEL PROT.	a. WATERWAY	5
2. DECK NO. OF EA TYPE				b. ALIGNMENT	8
SPN GRADE				c. SCOUR	8
RATES SI & A ITEM 58				d. SLOPE PROT., RIP-RAP, DIKES, ETC.	
3. RAILING			50. APPROACH ROADWAY CONDITION		6
a. CONCRETE			51. APPROACH SLABS		
b. TIMBER		8	52. PAINT SYSTEM CODE		
c. STEEL PLANK			53. UTILITIES		
d. OPEN GRID			54. RESPONSE TO LIVE LOAD		7
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS		5	55. ESTIMATED REMAINING LIFE		10
5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)			60. REGULATORY SIGN NOTICE ISSUED		NO
6. DECK EXP JTS. OR DEVICES. NO. OF EACH			61. PROMPT-ACTION NOTICE ISSUED		NO
a. STEEL PL OR FINGER			62. PRESENTLY POSTED		NO
b. MISC PREFAB			63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)		12
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)		7	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	5
11. LONGITUDINAL JOIST OR STRINGERS		5	c. SUBSTRUCTURE	ITEM 60	5
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S			d. CHANNEL & CHANNEL PROT.	ITEM 61	5
13. END DIAP'S, CURTAIN WALLS, & CONN'S			71. SI&A FIELD APPRAISAL RATINGS		
14. FLOOR BEAMS AND CONNECTIONS			a. WATERWAY ADAQUACY		5
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)			b. APPR. RDWY. ALIGNMENT		8
16. DRAINAGE SYSTEM (ON STRUCTURE)		4			
17. MOVABLE SPAN MACHINERY			72. FIELD SCOUR EVALUATION		0
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		6	LADDER		NO
b. PILES, POST, SILLS, & BRACING		5	BUCKET TRUCK		NO
c. BULKHEADS, WING'S, & TIE BACKS		5	BOAT		YES
36. CONC SUB STR.			OTHER		NO
a. ABUT. & INT. BENT CAPS					
b. ABUT. & BENT COL'S BRESTWALLS					
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:		<i>Boyan Cooper</i>
41. DRIFT		5	81. REVIEWED BY:		

BRIDGE INSPECTION RECORD AND SUMMARY FOR SHORED STRUCTURES OR STRUCTURES WITH TEMPORARY REPAIRS MADE TO KEEP A BRIDGE OPEN

BRIDGE: *117* COUNTY: *Pender* DATE: *5-18-09*

THE FOLLOWING S. I. & A ITEMS ARE TO BE CODED TO REFLECT THE FACT THAT THE STRUCTURE IS SHORED OR HAS HAD TEMPORARY REPAIRS MADE TO KEEP THE BRIDGE OPEN :

	<u>CODE</u>	<u>BY</u>
S I & A ITEM 103 - TEMPORARY STRUCTURE DESIGNATION	<i>T</i>	<i>TSE</i>
S I & A ITEM 59 - SUPERSTRUCTURE		
S I & A ITEM 60 - SUBSTRUCTURE	<i>3</i>	<i>TSE 5/18/09</i>
S I & A ITEM 64 OPERATING RATING		
HS <i>01</i> BY: <i>RPG</i>		
S I & A ITEM 66 - INVENTORY RATING		
HS <i>01</i> BY: <i>RPG</i>		

COMMENTS

Some piles Encased

FIELD INSPECTION REPORT

State of North Carolina
 Dept. of Transportation
 Division of Highways

Bridge Inspeccion & Analysis

Team Leader **BRYAN CROOM**

Assisted By **RGM**

Item No.	Grade	Description
1	5	LONGITUDINAL CRACKING/TRANSVERSE CRACKING IN ASPHALT WEARING SURFACE IN ALL SPANS.
2b	5	TIMBER DECK DECK BOARDS 1/2" SOFT AT ENDS.
3b	5	LONGITUDINAL CRACKING IN RAIL BOARDS UP TO 1/8" WIDE. LONGITUDINAL CRACKING ALONG RAIL POST'S UP TO 3/16" WIDE.
4	5	LONGITUDINAL CRACKING IN WHEEL GUARDS UP TO 1/4" WIDE.
11	5	LONGITUDINAL CRACKING ALONG JOIST UP TO 1/16" WIDE. JOIST 1 IN SPAN 1 OVER BENT 1 3/16" GAP BETWEEN JOIST AND CAP, JOIST 2 SIMILAR.
16	4	DRAINAGE MOST DECK DRAINAGE IS OCCURRING THROUGH ASPHALT WEARING SURFACE.
35a	6	WEST END OF BENT 2 CAP DECAYED 4" WIDE X 6" HIGH X 17" LONG. LONGITUDINAL CRACKING ALONG CAPS UP TO 1/16" WIDE. EAST END OF BENT 2 CAP DECAYED AREAS UP TO 14" LONG X 3" DIA.
35b	5	PILE 1 AT BENT 2 ENCASED IN CONCRETE. PILES 2 AND 3 AT BENT 2 ENCASED IN CONCRETE. CROSSBRACE AT AT BENT 2 SPAN 2 SIDE DECAYED AT PILE 1, 2' LONG. LONGITUDINAL CRACKING ALONG PILES UP TO 1/16" WIDE. PILE 3 AT BENT 4 SOUTH SIDE DECAYED/SPLIT 3" WIDE X 30" HIGH X 2" DEEP. PILE 2 AT BENT 4 DECAYED AT BOLT HOLE 1" WIDE X 4" HIGH X 10" DEEP. CROSSBRACE AT BENT 4 SPAN 5 SIDE DECAYED 2' LONG. PILE 1 ENCASEMENT AT BENT 4 CRACKED UP TO 1/2" WIDE. PILE 1 AT BENT 4 ENCASED IN CONCRETE. PILE 3 AT BENT 6 ENCASED IN CONCRETE. PILES 2 AND 3 AT END BENT 2 ENCASED IN CONCRETE. PILE 2 AT BENT 6 NORTH SIDE DECAYED 10" WIDE X 20" HIGH X 3" DEEP. PILE 2 AT BENT 2 ENCASEMENT CRACKED.
35c	5	SHEET PILE BOARDS AT BULKHEAD AND WINGWALLS. NORTHEAST TURNPILE AND WING PILE HOLLOW. SOUTHWEST WINGPILE DECAYED AND HOLLOW. SIGNS OF BULKHEAD LEAKAGE ALONG TOP OF END BENT CAPS.
41	5	SMALL DRIFT COLLECTING AT BENT 3 SPAN 4 SIDE 3" DIA. DRIFT COLLECTING AT PILES 1 AND 2 OF BENT 4 UP TO 5" DIA. DRIFT COLLECTING AT BENT 6 UP TO 5" DIA.

Bridge I&A Form 1(82)H
State of North Carolina
Dept. of Transportation
Division of Highways

FIELD INSPECTION REPORT

Bridge Inspeccion & Analysis

Team Leader **BRYAN CROOM**

Assisted By **RGM**

Item No.	Grade	
45a	5	WATERWAY THE HIGHWATER LEVEL IS AT 5FT. ABOVE THE DECK.(SEE U/W REPORT)
50	6	SOUTH APPROACH ASPHALT WEARING SURFACE CRACKED AND SETTLED 1". SETTLED AREA AT CENTERLINE OF SOUTH APPROACH 2' WIDE X 16" LONG X 3" DEEP. NORTH APPROACH ASPHALT WEARING SURFACE SETTLED UP TO 2".
62	NO	NOT POSTED.

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 700117

County PENDER

Date: 10/22/2010

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
2816	Asphalt Surface Repair or Replacement	SY	3	SOUTH APPROACH ASPHALT WEARING SURFACE CRACKED AND SETTLED 1". SETTLED AREA AT CENTERLINE OF SOUTH APPROACH 2' WIDE X 16" LONG X 3" DEEP. NORTH APPROACH ASPHALT WEARING SURFACE SETTLED UP TO 2".	
3304 (578)	Maintain/Replace Timber Superstructure Components	LF	2	JOIST 1 IN SPAN 1 OVER BENT 1 3/16" GAP BETWEEN JOIST AND CAP, JOIST 2 SIMILAR.	
3344 (580)	Repair / Replace Timber Substructure Components	LF	20	WEST END OF BENT 2 CAP DECAYED 4" WIDE X 6" HIGH X 17" LONG. EAST END OF BENT 2 CAP DECAYED AREAS UP TO 14" LONG X 3" DIA.	
3344 (580)	Repair / Replace Timber Substructure Components	LF	75	CROSSBRACE AT AT BENT 2 SPAN 2 SIDE DECAYED AT PILE 1 , 2' LONG. CROSSBRACE AT AT BENT 2 SPAN 2 SIDE DECAYED AT PILE 1 , 2' LONG. PILE 3 AT BENT 4 SOUTH SIDE DECAYED/SPLIT 3" WIDE X 30" HIGH X 2" DEEP PILE 2 AT BENT 4 DECAYED AT BOLT HOLE 1" WIDE X 4" HIGH X 10" DEEP CROSSBRACE AT BENT 4 SPAN 5 SIDE DECAYED 2' LONG PILE 2 AT BENT 6 NORTH SIDE DECAYED 10" WIDE X 20" HIGH X 3" DEEP	
3346 (580)	Repair / Maintain Timber Wings & Blkhds	SF	25	NORTHEAST TURNPILE AND WING PILE HOLLOW SOUTHWEST WINGPILE DECAYED AND HOLLOW. SIGNS OF BULKHEAD LEAKAGE ALONG TOP OF END BENT CAPS.	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 700117


County PENDER


Date: 10/22/2010


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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3366 (589)	Drift and Debris Removal	HR	30	SMALL DRIFT COLLECTING AT BENT 3 SPAN 4 SIDE 3" DIA. DRIFT COLLECTING AT PILES 1 AND 2 OF BENT 4 UP TO 5" DIA. DRIFT COLLECTING AT BENT 6 UP TO 5" DIA.	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined



PILE 1 AT BENT 2 ENCASED IN CONCRETE



PILES 2 AND 3 AT BENT 2 ENCASED IN CONCRETE



CROSSBRACE AT AT BENT 2 SPAN 2 SIDE DECAYED AT PILE 1 , 2' LONG.



WEST END OF BENT 2 CAP DECAYED 4" WIDE X 6" HIGH X 17" LONG



LONGITUDINAL CRACKING ALONG CAPS UP TO 1/16" WIDE



LONGITUDINAL CRACKING ALONG PILES UP TO 1/16" WIDE



LONGITUDINAL CRACKING ALONG JOIST UP TO 1/16" WIDE



SMALL DRIFT COLLECTING AT BENT 3 SPAN 4 SIDE 3" DIA.



DRIFT COLLECTING AT PILES 1 AND 2 OF BENT 4 UP TO 5" DIA.



PILE 3 AT BENT 4 SOUTH SIDE DECAYED/SPLIT 3" WIDE X 30" HIGH X 2" DEEP



PILE 2 AT BENT 4 DECAYED AT BOLT HOLE 1" WIDE X 4" HIGH X 10" DEEP



CROSSBRACE AT BENT 4 SPAN 5 SIDE DECAYED 2' LONG



PILE 1 ENCASEMENT AT BENT 4 CRACKED UP TO 1/2" WIDE



PILE 1 AT BENT 4 ENCASED IN CONCRETE



PILE 3 AT BENT 6 ENCASED IN CONCRETE



DRIFT COLLECTING AT BENT 6 UP TO 5" DIA.



SHEET PILE BOARDS AT BULKHEAD AND WINGWALLS



PILES 2 AND 3 AT END BENT 2 ENCASED IN CONCRETE



PILE 2 AT BENT 6 NORTH SIDE DECAYED 10" WIDE X 20" HIGH X 3" DEEP



NORTHEAST TURNPILE AND WING PILE HOLLOW



SOUTH APPROACH ASPHALT WEARING SURFACE CRACKED AND SETTLED 1"



SETTLED AREA AT CENTERLINE OF SOUTH APPROACH 2' WIDE X 16" LONG X 3" DEEP



LONGITUDINAL CRACKING/TRANSVERSE CRACKING IN ASPHALT WEARING SURFACE IN ALL SPANS



EAST END OF BENT 2 CAP DECAYED AREAS UP TO 14" LONG X 3" DIA.



PILE 2 AT BENT 2 ENCASEMENT CRACKED



SOUTHWEST WINGPILE DECAYED AND HOLLOW



JOIST 1 IN SPAN 1 OVER BENT 1 3/16" GAP BETWEEN JOIST AND CAP, JOIST 2 SIMILAR.



SIGNS OF BULKHEAD LEAKAGE ALONG TOP OF END BENT CAPS



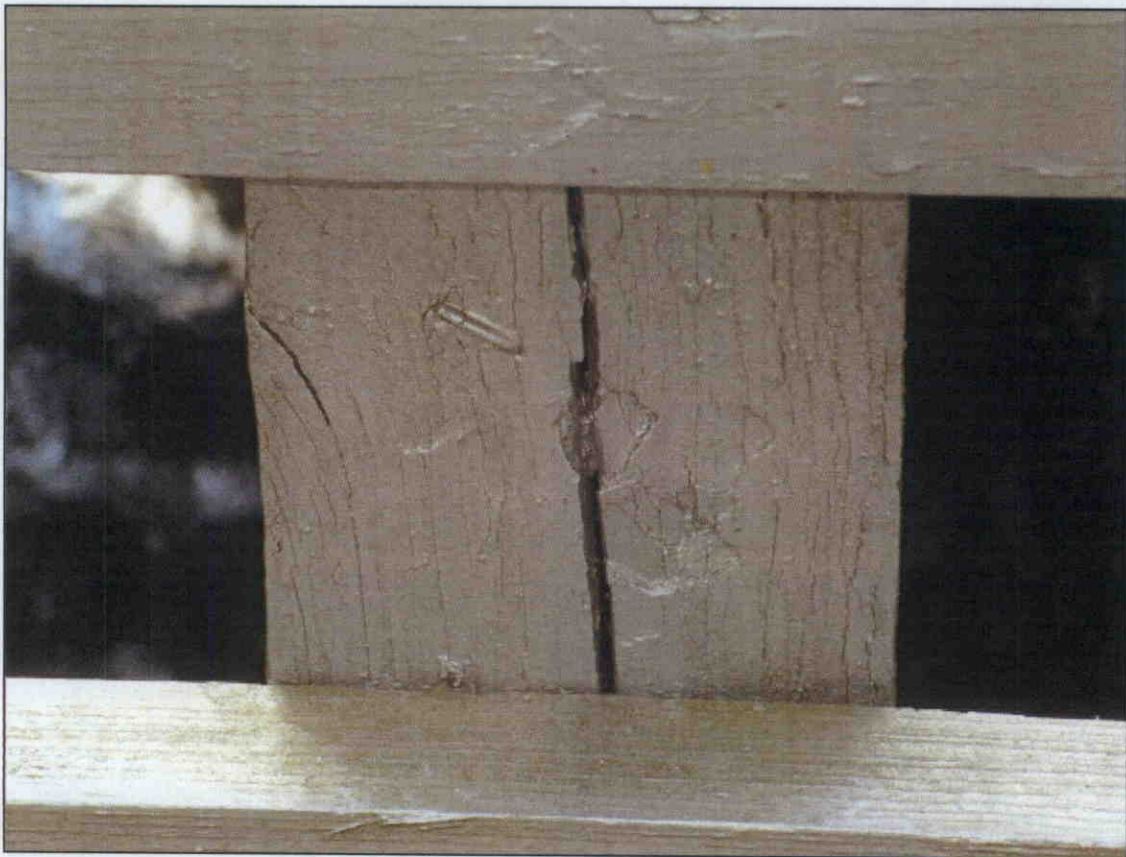
LONGITUDINAL CRACKING IN WHEEL GUARDS UP TO 1/4" WIDE



LONGITUDINAL CRACKING IN RAIL BOARDS UP TO 1/8" WIDE



NORTH APPROACH ASPHALT WEARING SURFACE SETTLED UP TO 2"



LONGITUDINAL CRACKING ALONG RAIL POST'S UP TO 3/16" WIDE

BRIDGE MANAGEMENT UNIT
 DATA ON EXISTING STRUCTURE

Run Date: 11/19/2010

COUNTY : PENDER DIV : 3 DIST : 1 STRUCTURE NUMBER : 700117 LENGTH : 69 FEET

ROUTE CARRIED : SR1520 FEATURE INTERSECTED : HOLLY SHELTER CREEK

LOCATED : 3.0MI.S.JCT.NC50 BRIDGE NAME : CITY :

FUNC. CLASS : 09 SYST.ON : NFA SYST.UNDER : NFA ADT & YR : 320 2009 RAIL TYPE : LT 227 RT 227

BUILT : 1956 BY : BMU PROJ : FED.AID PROJ : DESIGN LOAD : Other or Unknown

REHAB : BY : BMU PROJ : 5.2751 ALIGNMENT : TAN SKEW : 90 LANES : ON 2 UNDER

NAVIGATION : VC 0.0 FT HT. CRN. TO BED : 14 FT WATER DEPTH : 8 FT

SUPERSTRUCTURE : TIMBER FLOOR/TIMBER JOISTS

SUBSTRUCTURE : E.BTS&BTS;TIMBER CAPS/TIMBER PILES;TIM.CRUTCH BTS.

SPANS : 1@9';1@8'3;2@8'8;1@8'6;1@8'4;1@7'11;1@9'10

BEAMS OR GIRDERS : 10 LINES 6X12 TIMBER JOISTS@VAR.CTS.

FLOOR : 4X8TIM/1 AWS ENCROACHMENT : DECK (OUT TO OUT) : 20.3 FT

CLEAR ROADWAY : 19.2 FT BETWEEN RAILS : 19.8 FT SIDEWALK OR CURB : LT 0.3 FT RT 0.3 FT

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

INV.RTG. : HS-1 OPE.RTG. : HS-1 CONTR.MEMBER : CAP, TIM POSTED : SV TTST DATE 07/14/1999

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

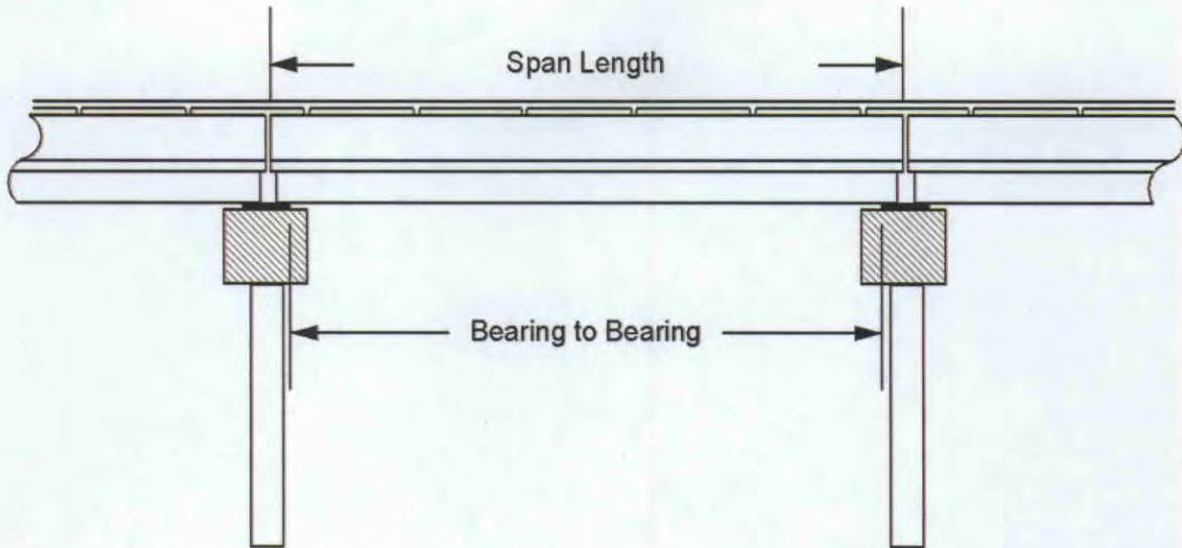
2ND OPENING : 3RD OPENING : 4TH OPENING : 5TH OPENING :

REMARKS :

Structure Data Worksheet

Spans

County: PENDER Structure No: 700117 Date: 10/22/2010 Inspected By: BC



Span No	Span Length	Bearing to Bearing	Comments
1	9'	8'	
2	8.250'	7.750'	
3	8.667'	8.16'	
4	8.667'	8.16'	
5	8.5'	8'	
6	8.333'	7.83'	
7	7.916'	7.41'	
8	9.750'	9'	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 700117 County: PENDER Date: 10/22/2010 By: BC

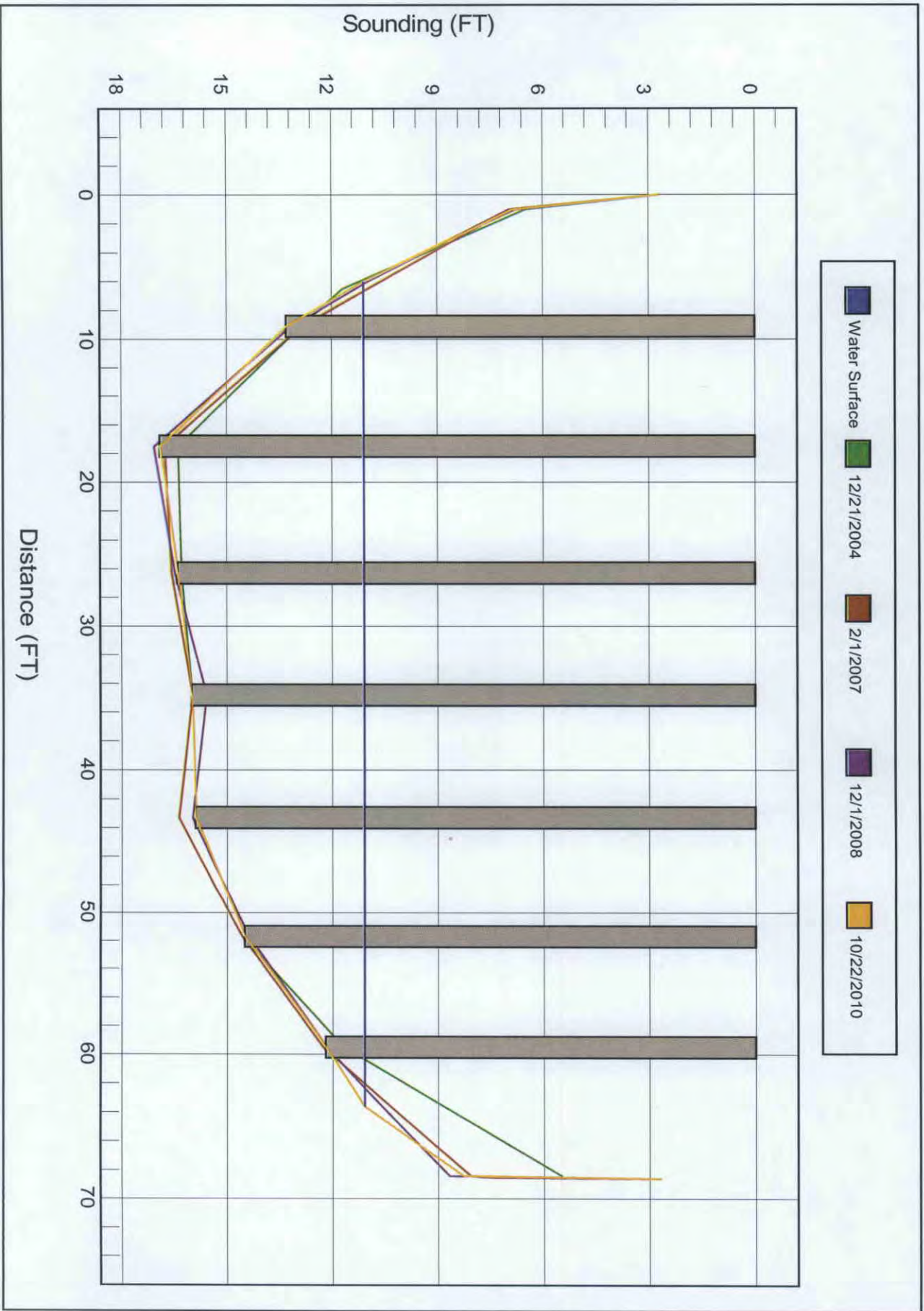
Record sounding from top of rail. Other location if needed: _____

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

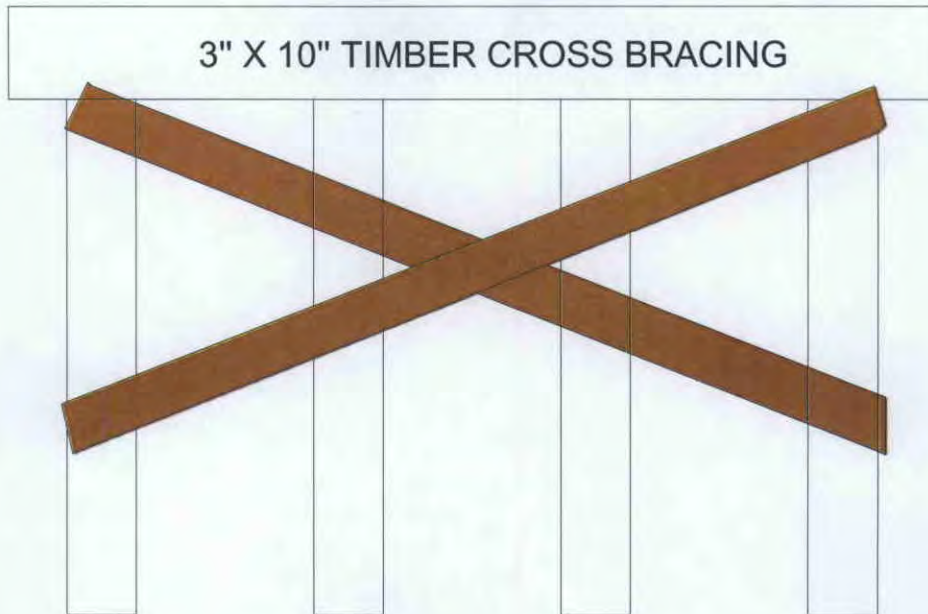
DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.7	top of deck			
1	6.9	GROUND AT CAP	1	6.0	ground at cap
6	11.1	WE/WS			
9.1	13.3	BENT 1	9.1	6.8	BENT 1
17.5	16.9	BENT 2	17.5	12.7	BENT 2
26.3	16.4	BENT 3	26.3	15.4	BENT 3
34.8	16	BENT 4	34.8	15.7	BENT 4
43.3	15.9	BENT 5	43.3	16.7	BENT 5
51.7	14.5	BENT 6	51.7	17	BENT 6
59.5	12.2	BENT 7	59.5	12.9	BENT 7
63.6	11.1	WE/WS			
68.4	8.3	GROUND AT CAP	68.4	10.1	GROUND AT CAP
68.6	2.7	top of deck			

Top of Rail = 0 FT (Sounding)

STREAMBED PROFILE (Downstream)



Bridge Inspection Field Sketch



Bent #	1		
Cap - Beam Type (Wood or Steel)			
Cap Size	20.208ft Long	1ft Wide	1ft High
Left Overhang	1.875ft	lt-beam to end of cap	.667 ft
Right Overhang	1.5ft	rt-beam to end of cap	.667 ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	6.1667		11" DIA		Vertical
2	Wood or Timber	Pile Bent	6.1667		11" DIA.		Vertical
3	Wood or Timber	Pile Bent	4.5		11" DIA.		Vertical
4	Wood or Timber	Pile Bent			11" DIA.		Vertical

MEASUREMENTS VERIFIED BY RGM ON 10-22-10

Title SUBSTRUCTURE 4	Description BENT 1.
Bridge No: 700117	Drawn By: rgm
Date: 12/01/2008	File Name: S0038000123

Bridge Inspection Field Sketch

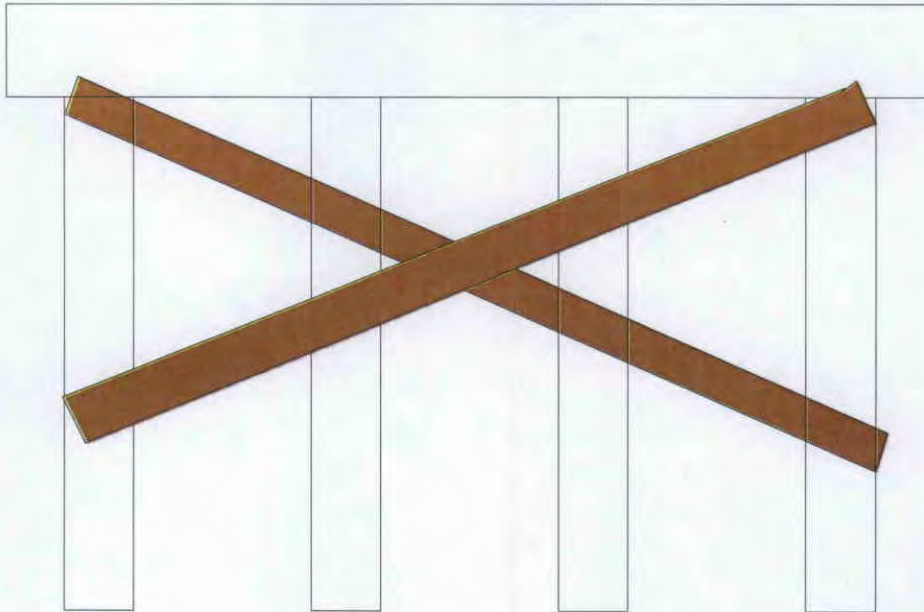


Roadway	19.0ft Wide	1 Paved Lanes	Looking East
Left Shoulder	6ft Wide	0ft Paved	6ft Unpaved
Right Shoulder	6ft Wide	0ft Paved	6ft Unpaved
Left Guardrail			
Right Guardrail			

MEASUREMENTS VERIFIED BY RGM ON 10-22-10

Title roadway		Description roadway	
Bridge No: 700117	Drawn By: rgm	Date: 12/01/2008	File Name: S0042000258

Bridge Inspection Field Sketch



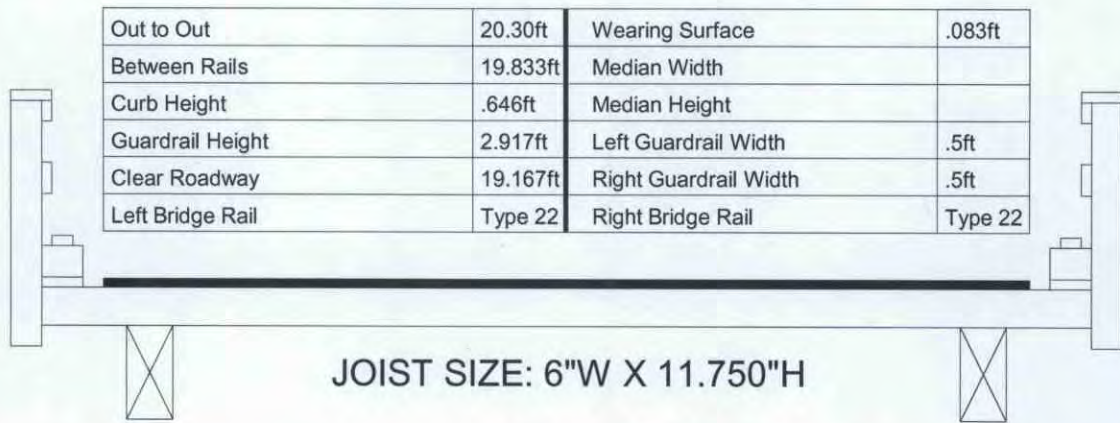
Bent #	3		
Cap - Beam Type (Wood or Steel)			
Cap Size	20.54ft Long	1ft Wide	0.99ft High
Left Overhang	1.875ft	lt-beam to end of cap	.667 ft
Right Overhang	1.5ft	rt-beam to end of cap	.667 ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	6.083		11" DIA.		Vertical
2	Wood or Timber	Pile Bent	6.083		11" DIA.		Vertical
3	Wood or Timber	Pile Bent	5.0		11" DIA.		Vertical
4	Wood or Timber	Pile Bent			11" DIA.		Vertical

MEASUREMENTS VERIFIED BY RGM ON 10-22-10

Title SUBSTRUCTURE 5		Description BENT 3.	
Bridge No: 700117	Drawn By: rgm	Date: 12/01/2008	File Name: S0038000124

Bridge Inspection Field Sketch



Measurements for Span #	1		
Deck Thickness	.333	Left Overhang	.708
Top of Rail to Bottom of Beam	4.292	Right Overhang	.708

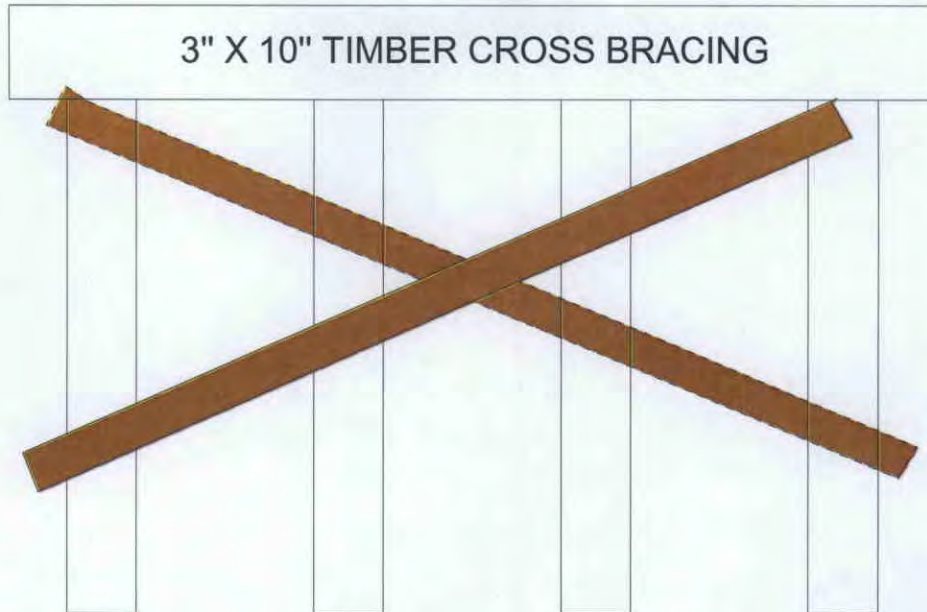
Beam No	Beam Type	Spacing	Comments
1	Timber (Rectangular)	1.833ft	
2	Timber (Rectangular)	2.083ft	
3	Timber (Rectangular)	2.083ft	
4	Timber (Rectangular)	2.083ft	
5	Timber (Rectangular)	2.083ft	
6	Timber (Rectangular)	2.083ft	
7	Timber (Rectangular)	2.083ft	
8	Timber (Rectangular)	2.083ft	
9	Timber (Rectangular)	2.479ft	
10	Timber (Rectangular)		

ALL SPANS SIMILAR

MEASUREMENTS VERIFIED BY RGM ON 10-22-10

Title		Description	
SUPERSTRUCTURE		LOOKING EAST	
Bridge No: 700117	Drawn By: rgm	Date: 12/1/2008	File Name: S0042000259

Bridge Inspection Field Sketch



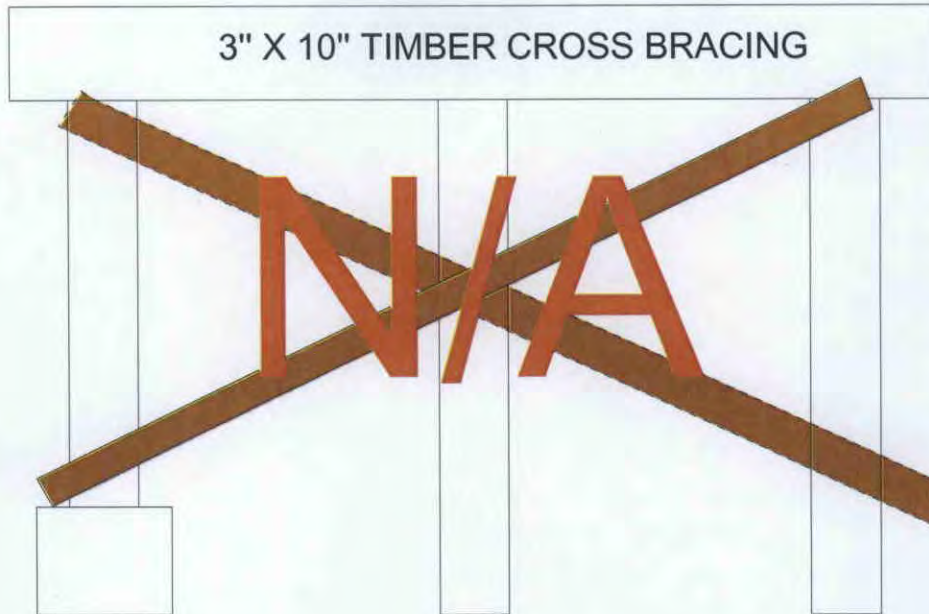
Bent #	5		
Cap - Beam Type (Wood or Steel)			
Cap Size	20.45ft Long	1ft Wide	0.99ft High
Left Overhang	1.875ft	lt-beam to end of cap	.667 ft
Right Overhang	1.5ft	rt-beam to end cap	.667 ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	5.5		9.5" DIA.		Vertical
2	Wood or Timber	Pile Bent	5.5		11" DIA.		Vertical
3	Wood or Timber	Pile Bent	6.083		11" DIA.		Vertical
4	Wood or Timber	Pile Bent			11" DIA.		Vertical

MEASUREMENTS VERIFIED BY RGM ON 10-22-10

Title SUBSTRUCTURE 6	Description BENT 5.
Bridge No: 700117	Drawn By: rgm
Date: 12/01/2008	File Name: S0038000125

Bridge Inspection Field Sketch



Bent #	2	PILE 1 ENCASED	
Cap - Beam Type (Wood or Steel)			
Cap Size	20.0ft Long	.854ft Wide	.958ft High
Left Overhang	1.0ft	lt-beam to end of cap	.667 ft
Right Overhang	1.0ft	rt-beam to end of cap	.667 ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	9FT.		1FT.		Vertical
2	Wood or Timber	Pile Bent	9FT.		1FT.		Vertical
3	Wood or Timber	Pile Bent			1FT.		Vertical

Title

SUBSTRUCTURE1

Description

BENTS 2, 4 AND 6

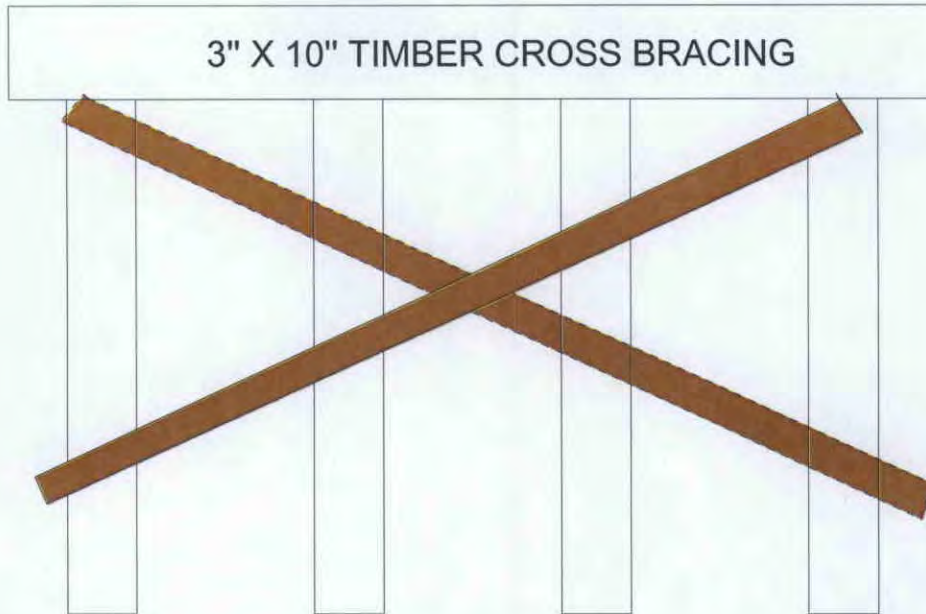
Bridge No: 700117

Drawn By: rgm

Date: 12/01/2008

File Name: S0042000260

Bridge Inspection Field Sketch



Bent #	7		
Cap - Beam Type (Wood or Steel)			
Cap Size	20.12ft Long	1ft Wide	0.99ft High
Left Overhang	1.792ft	lt-beam to end of cap	.667 ft
Right Overhang	1.5ft	rt-beam to end of cap	.667 ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	5.75		11" DIA.		Vertical
2	Wood or Timber	Pile Bent	5.916		10" DIA.		Vertical
3	Wood or Timber	Pile Bent	5.167		11" DIA.		Vertical
4	Wood or Timber	Pile Bent			11" DIA.		Vertical

MEASUREMENTS VERIFIED BY RGM ON 10-22-10

Title		Description	
SUBSTRUCTURE 7		BENT 7.	
Bridge No: 700117	Drawn By: rgm	Date: 12/01/2008	File Name: S0038000126

Bridge Inspection Field Sketch



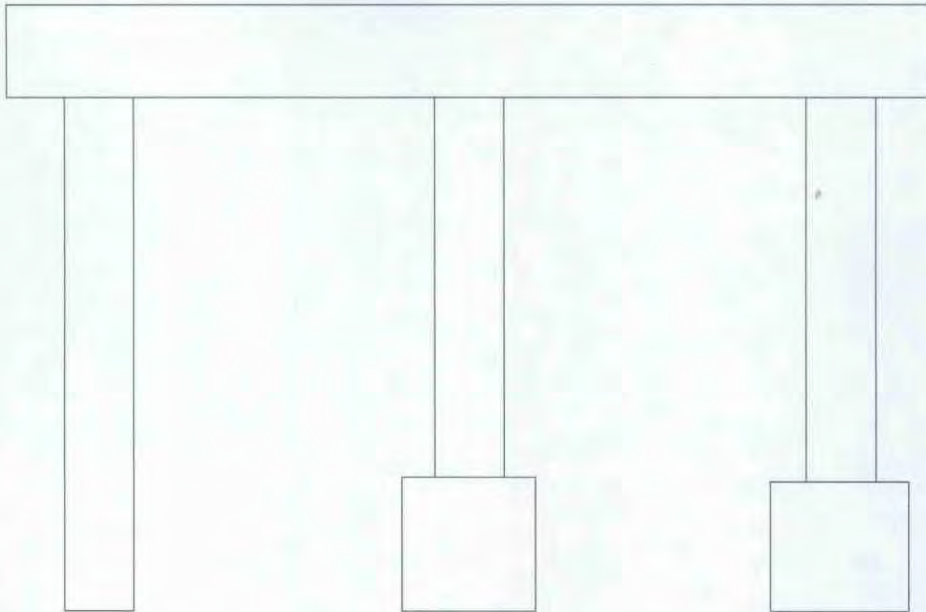
Abutment #	1		
Cap - Beam Type (Wood or Steel)			
Cap Size	20ft Long	1ft Wide	1ft High
Left Overhang	1ft	lt-beam to end of cap	.667 ft
Right Overhang	1ft	rt beam to end of cap	.667 ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	9		12" DIA.		Vertical
2	Wood or Timber	Pile Bent	9		12" DIA.		Vertical
3	Wood or Timber	Pile Bent			12" DIA.		Vertical

MEASUREMENTS VERIFIED BY RGM ON 10-22-10

Title		Description	
SUBSTRUCTURE 2		END BENT 1.	
Bridge No: 700117	Drawn By: rgm	Date: 12/01/2008	File Name: S0042000261

Bridge Inspection Field Sketch



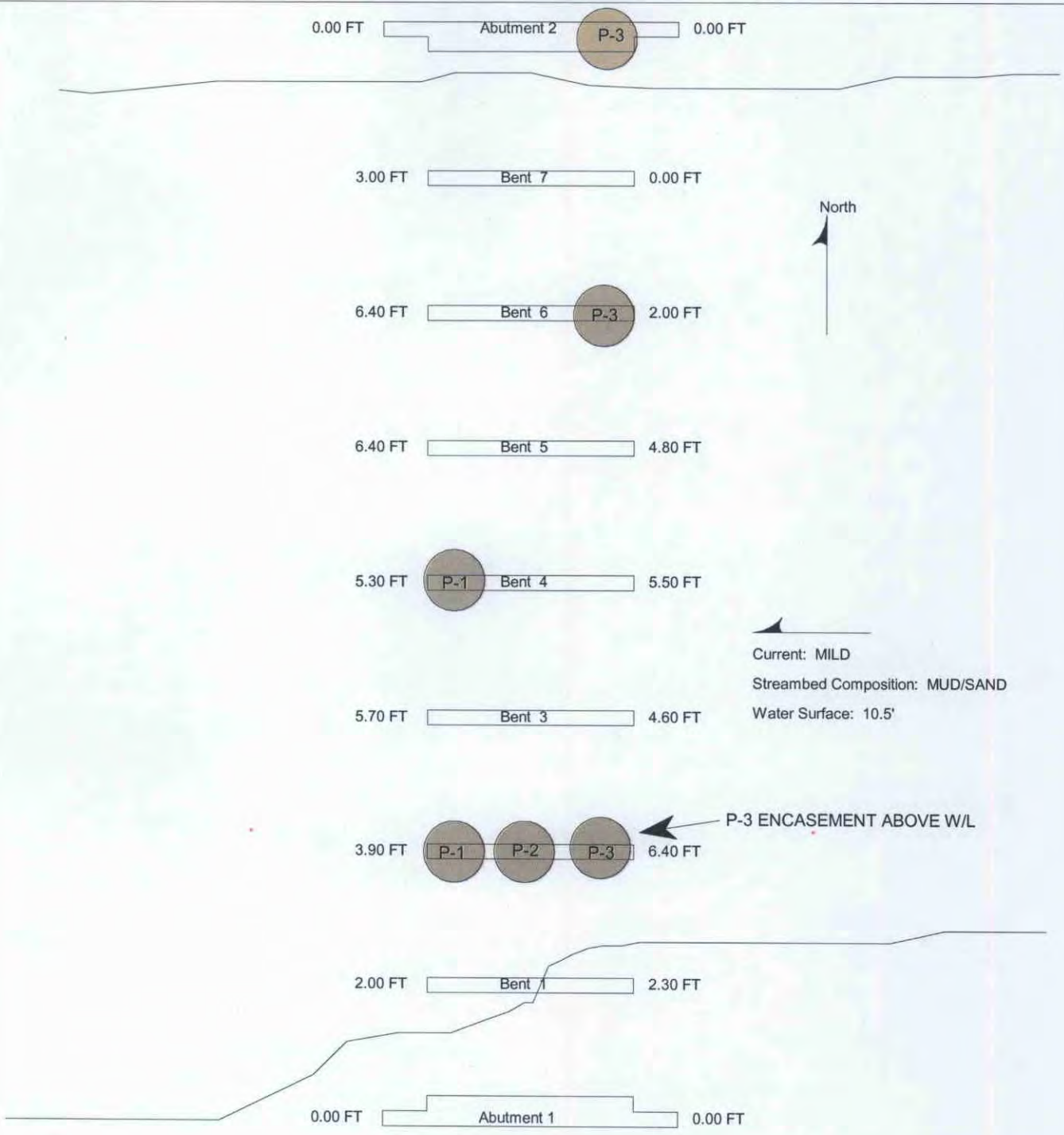
Abutment #	2	PILE'S 2, AND 3 ENCASED.	
Cap - Beam Type (Wood or Steel)			
Cap Size	20ft Long	0.854ft Wide	0.958ft High
Left Overhang	1ft	lt-beam to end of cap	.667 ft
Right Overhang	1ft	rt-beam to end of cap	.667 ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	9		12" DIA.		Vertical
2	Wood or Timber	Pile Bent	9		12" DIA.		Vertical
3	Wood or Timber	Pile Bent			12" DIA.		Vertical

MEASUREMENTS VERIFIED BY RGM ON 10-22-10

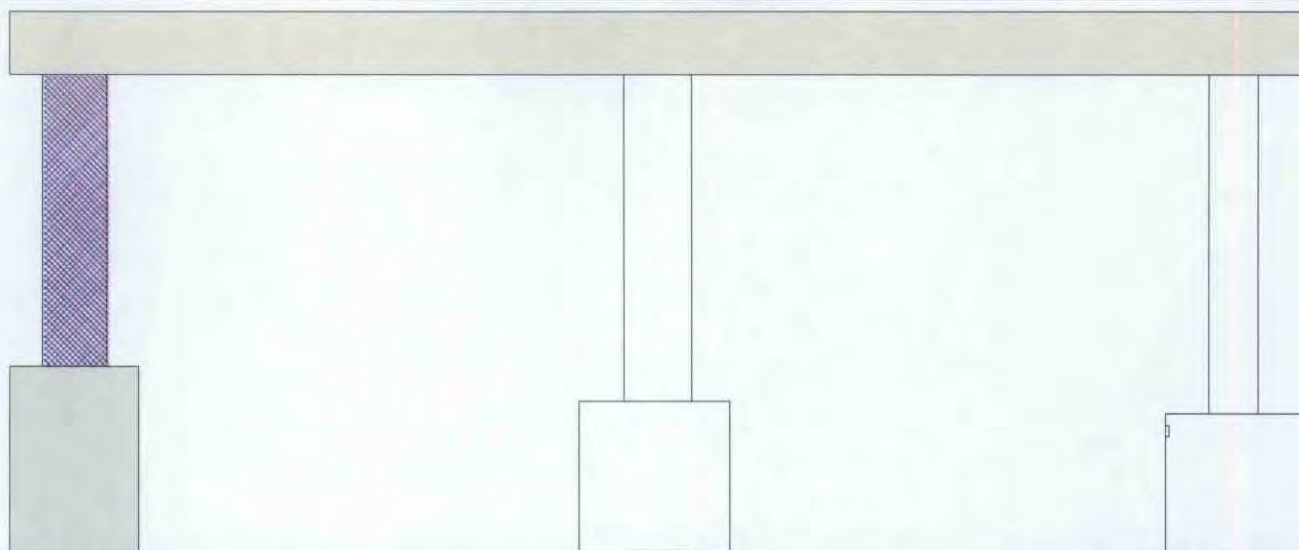
Title SUBSTRUCTURE 3	Description END BENT 2.
Bridge No: 700117	Drawn By: rgm
Date: 12/01/2008	File Name: S0042000262

Bridge Inspection Field Sketch



Title	Description		
PLAN VIEW	TOP VIEW		
Bridge No: 700117	Drawn By: PGR	Date: 03/08/2007	File Name: S0178000320

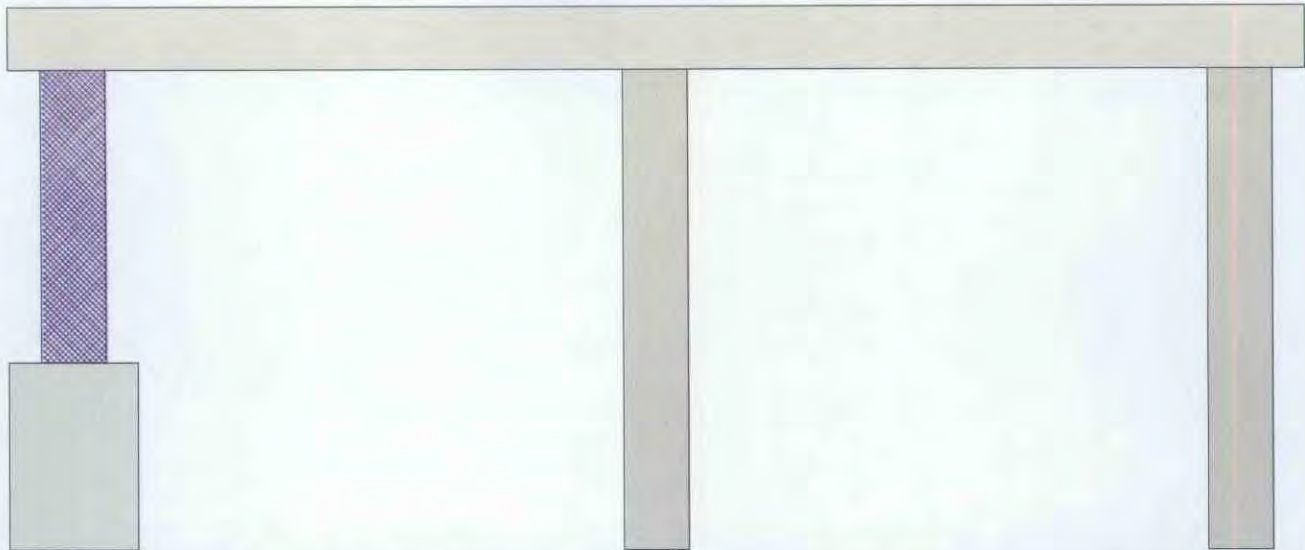
Bridge Inspection Field Sketch



Cap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
20.000 ft.	.854 ft.	.958 ft.	1.000 ft.	1.000 ft.	.667ft.	.667ft.				
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	9 ft.	1 ft.			Vertical	No	Yes	No	Yes
2	Timber	9 ft.	1 ft.			Vertical	NO	YES	No	YES
3	Timber		1 ft.			Vertical	NO	YES	No	YES
Bent/Abutment #: 2			Similar Bents: MEASUREMENTS VERIFIED BY RGM ON 10-22-10							

Title SUBSTRUCTURE BENT 2			Description LOOKING NORTH			
Bridge No: 700117	Drawn By: RGM	Date: 12/1/2008	File Name: S0042061247			

Bridge Inspection Field Sketch



Cap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
20.000 ft.	.854 ft.	.958 ft.	1.000 ft.	1.000 ft.	.667ft.	.667ft.				
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	9 ft.	1 ft.			Vertical	No	Yes	No	Yes
2	Timber	9 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber		1-ft.			Vertical	Yes	No	No	No
Bent/Abutment #: 4			Similar Bents: MEASUREMENTS VERIFIED BY RGM ON 10-22-10							

Title SUBSTRUCTURE BENT 4			Description LOOKING NORTH			
Bridge No: 700117	Drawn By: RGM	Date: 12/1/2008	File Name: S0042061248			



WEST END OF BENT 1 BENTS 3,5 AND 7 SIMILAR



WEST END OF BENT 2 BENTS 4 AND 6 SIMILAR



END BENT 1 END BENT 2 SIMILAR



SPAN 2 UNDERSIDE ALL SPANS SIMILAR



BENT 5 BENTS 1,3 AND 7 SIMILAR



BENT 6 BENTS 2 AND 4 SIMILAR



LOOKING NORTH



WEST SIDE



LOOKING SOUTH



EAST SIDE



CLOSE UP OF ASPHALT WEARING SURFACE



UPSTREAM EAST



DOWNSTREAM WEST