



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

PM ISSUED

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY ROBESON BRIDGE NUMBER 770223 INSPECTION CYCLE 2 YRS
ROUTE SR1303 ACROSS GUM SWAMP M.P. 0

LOCATION 0.2 MI.W.JCT SR1339

SUPERSTRUCTURE REINFORCED CONCRETE FLOOR ON TIMBER JOISTS(STD BMD-10)

SUBSTRUCTURE EBTS&IBTS:TIMBER CAPS ON TIMBER PILES@8'CTS

1@17.917',1@17.5'1@17.25'

SPANS 1@17'11,1@17'6,1@17'3

LONGITUDE 79° 16' 16.22"

LATITUDE 34° 45' 41.91"

INSPECTION DATE 02/25/2014

PRESENT CONDITION FAIR

PRESENT POSTING Y SV 24 TTST 31

PROPOSED POSTING

OTHER SIGNS PRESENT 4 DELINEATORS



LOOKING EAST (OLD RED SPRINGS ROAD)

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></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: 04/02/2014

IDENTIFICATION							
(1) STATE NAME -NORTH CAROLINA	BRIDGE	770223		SUFFICIENCY RATING =	42.28		
(8) STRUCTURE NUMBER(FEDERAL)		000000001550223		STATUS =	Not Deficient		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31013030					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		1					
(3) COUNTY CODE	155	(4) PLACE CODE	0				
(6) FEATURE INTERSECTED - GUM SWAMP							
(7) FACILITY CARRIED SR1303							
(9) LOCATION 0.2 MI.W. OF JCT SR1339							
(11)MILEPOINT		0					
(16)LAT 34° 45' 41.91"	(17)LONG	79° 16' 16.22"					
(98)BORDER BRIDGE STATE CODE	PCT SHARE						
(99)BORDER BRIDGE STRUCTURE NO							
STRUCTURE TYPE AND MATERIAL							
(43) STRUCTURE TYPE MAIN: Wood or Timber							
TYPE - Stringer Multibeam or Girder	CODE	702					
(44) STRUCTURE TYPE APPR :							
TYPE -	CODE	000					
(45) NUMBER OF SPANS IN MAIN UNIT		3					
(46) NUMBER OF APPROACH SPANS							
(107)DECK STRUCTURE TYPE - 1	CODE						
(108)WEARING SURFACE / PROTECTIVE SYSTEM :							
(A) TYPE OF WEARING SURFACE -	CODE						
(B) TYPE OF MEMBRANE -	CODE						
(C) TYPE OF DECK PROTECTION -	CODE						
AGE AND SERVICE							
(27) YEAR BUILT		1957					
(106)YEAR RECONSTRUCTED							
(42) TYPE OF SERVICE : ON - Highway							
UNDER - Waterway	CODE	15					
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE		0					
(29) AVERAGE DAILY TRAFFIC		1700					
(30) YEAR OF ADT 2011	(109) TRUCK ADT PCT	6%					
(19) BYPASS OR DETOUR LENGTH		8 MI					
GEOMETRIC DATA							
(48) LENGTH OF MAXIMUM SPAN		18 FT					
(49) STRUCTURE LENGTH		53 FT					
(50)CURB OR SIDEWALK: LEFT .75 FT RIGHT .75 FT							
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		24 FT					
(52) DECK WIDTH OUT TO OUT		25.33 FT					
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		18 FT					
(33) BRIDGE MEDIAN - No Median	CODE	0					
(34) SKEW 0°	(35) STRUCTURE FLARED	0					
(10) INVENTORY ROUTE MIN VERT CLEAR		999.9 FT					
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		24 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					
				CLASSIFICATION			
				(112)NBIS BRIDGE SYSTEM -	YES		
				(104)HIGHWAY SYSTEM Is not on NHS	0		
				(26) FUNCTIONAL CLASS - Minor Collector	08		
				(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 -			
				(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		
				CONDITION			
				(58) DECK	5		
				(59) SUPERSTRUCTURE	5		
				(60) SUBSTRUCTURE	5		
				(61) CHANNEL & CHANNEL PROTECTION	7		
				(62) CULVERTS	N		
				LOAD RATING AND POSTING			
				(31) DESIGN LOAD Unknown	0		
				(63) OPERATING RATING METHOD - Allowable Stress	2		
				(64) OPERATING RATING - HS-19	35		
				(65) INVENTORY RATING METHOD - Allowable Stress	2		
				(66) INVENTORY RATING - HS-9	16		
				(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	4		
				(69) UNDERCLEARANCES,VERTI & HORIZ	N		
				(71) WATERWAY ADEQUACY	7		
				(72) APPROACH ROADWAY ALIGNMENT	8		
				(36) TRAFFIC SAFETY FEATURES	0000		
				(113)SCOUR CRITICAL BRIDGES	8		
				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 3400	(115) YEAR FUTURE ADT	2025	
				INSPECTIONS			
				(90) INSPECTION DATE	02/25/2014		
				(92) CRITICAL FEATURE INSPECTION :	(93) CFI DATE		
				A) FRACTURE CRIT DETAIL - NO	A)		
				B) UNDERWATER INSP - YES 48Mo	B) 10/16/2012		
				C) OTHER SPECIAL INSP NO	C)		
				SCOUR			

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 04/02/2014

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
ROBESON	6	1	770223	53	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1303	GUM SWAMP

LOCATED :	BRIDGE NAME :	CITY :
0.2 MI.W. OF JCT SR1339		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
08	NFA	NFA	1700 2011	LT 241 RT 241

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

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :		
			TAN.	90	ON 2	UNDER	0

NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :		
VC 0 FT	HC 0 FT		8 FT		4		FT

SUPERSTRUCTURE :	REINFORCED CONCRETE FLOOR ON TIMBER JOISTS(STD BMD-10)
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SUBSTRUCTURE :	EBTS&IBTS:TIMBER CAPS ON TIMBER PILES@8'CTS
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SPANS :	1@17'11,1@17'6,1@17'3
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BEAMS OR GIRDERS :	19 LINES 6X15 TIMBER JOISTS @ 1'4.5 CENTERS
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FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
5RC/2.5 AWS		25.33 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
24 FT	25.5 FT	LT .75 FT RT .75 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	TTST	DATE
HS-9	HS-19	pile	SV 24	31	02/03/2009

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. 770223 COUNTY ROBESON ROUTE SR1303 OVER GUM SWAMP
 STRUCTURE TYPE REINFORCED CONCRETE FLOOR ON TIMBER JOISTS(STD BMD-10)
 ROUTE ORIENTATION W - E SPANS 1@17'11,1@17'6,1@17'3

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	
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58					b. ALIGNMENT	G	
a. CONCRETE			3		c. SCOUR	G	
b. TIMBER					d. SLOPE PROT., RIP-RAP, DIKES, ETC.		
c. STEEL PLANK				50. APPROACH ROADWAY CONDITION			F
d. OPEN GRID				51. APPROACH SLABS			
3. RAILING				52. PAINT SYSTEM CODE			
a. CONCRETE			F	53. UTILITIES			
b. TIMBER				54. RESPONSE TO LIVE LOAD			G
c. ALUMINUM				55. ESTIMATED REMAINING LIFE			5
d. STEEL							
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			G				
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			YES
a. STEEL PL OR FINGER				62. PRESENTLY POSTED			YES
b. MISC PREFAB				63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)			10
c. COMPRESSION SEAL				64. TOTAL SNOOPER INSP. TIME (HRS)			
d. STANDARD JOINTS			2	65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)			
e. OPEN JOINTS							
7. DECK DEBRIS (INCLUDES EXCESS SAND/GRAVEL)			F				
				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				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)				b. APPR. RDWY. ALIGNMENT	8		
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				F			
b. PILES, POST, SILLS, & BRACING				F	SNOOPER (CODE S, 4, OR N)	HRS	NO
c. BULKHEADS, WING'S, & TIE BACKS				F	LADDER	NO	
36. CONC SUB STR.					BUCKET TRUCK	NO	
a. ABUT. & INT. BENT CAPS					BOAT	YES	
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.					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>Randy K...</i>		
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 RAY L. KISNER			
Assisted By STEVE BARNES			
Item No.	Grade		
1	F	(ASPHALT WEARING SURFACE) THERE IS 1/2" OF ROCK AND TAR OVERLAY. (PHOTO) THERE ARE SEALED TRANSVERSE CRACKS IN ASPHALT WEARING SURFACE OVER BENT 1 JOINT. (PHOTO) THERE IS HAIRLINE MAP CRACKING IN ASPHALT WEARING SURFACE IN LEFT SHOULDER. THE SPAN 2 ASPHALT WEARING SURFACE IN WEST BOUND LANE IS UNEVEN UP TO 2". (PHOTO) ASPHALT WEARING SURFACE OVER BENT 2 IS UNEVEN WITH SPALL IN EAST BOUND LANE 12" DIAMETER X 2" DEEP. (PHOTO)	
2a	F	(RC DECK) THE DECK HAS SPALLS NOTED AND REPAIRED AREAS WITH FORMS STILL IN PLACE.	
3a	F	(RC RAILS) THE CONCRETE RAILS EXHIBITS AREAS OF EXPOSED AGGREGATE AND SCALING. THERE IS A 3" W X 4" H X 1 1/2" D SPALL ON THE NORTH RAIL BAR IN SPAN 3. (PHOTO)	
6d	G	(STANDARD JOINTS) THERE ARE SEALED TRANSVERSE CRACKS IN ASPHALT WEARING SURFACE OVER BENT 1 JOINT. (PHOTO)	
7	F	(DECK DEBRIS) THERE IS DEBRIS AND VEGETATION ALONG BOTH CURBS. (PHOTOS)	
10A	NO	(CURVED GIRDERS) NO CURVED GIRDERS.	

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 RAY L. KISNER			
Assisted By STEVE BARNES			
Item No.	Grade		
11	P	(TIMBER JOISTS) JOIST 18 IN SPAN 2 AT BENT 1 IS END DECAYED TOP, 6" HIGH X 5" WIDE X 15" DEEP, BOTTOM IS 6" HIGH X 4" WIDE X 15" DEEP. (PHOTO) PM ISSUED. JOIST 18 IN SPAN 1 AT BENT 1 IS END DECAYED 5" WIDE X 4" HIGH X 14" DEEP. (PHOTO) PM ISSUED. JOIST 17 IN SPAN 3 AT BENT 2 IS END DECAYED FULL HEIGHT X 1" TO 20" DEEP X 3" TO 5" WIDE . (PHOTO) PM ISSUED. THE REMAINING TIMBER JOISTS ARE GRADED 5 (FAIR) JOIST 19 IN SPAN 3 AT END BENT 2 IS DELAMINATED TOP PORTION 5" WIDE X 6" HIGH. (PHOTO) JOIST 1 IN SPAN 3 AT END BENT 2 IS DECAYED 22" L X 4" WIDE X 2" H . (PHOTO) ALSO SEE SKETCH	
16	F	THERE IS CHECKING UP TO 1/8" WIDE IN JOIST 19 IN SPAN 1. (PHOTO) (DRAINAGE) DRAINAGE IS RESTRICTED BY DEBRIS AND VEGETATION	
35a	F	(TIMBER CAPS AND RISERS) BENT 2 CROWN STRIP IN SPAN 3 IS DECAYED FROM JOIST 8 THRU JOIST 14 WITH UP TO 1/2" CRUSHING (PHOTO) PM ISSUED. BENT 1 CAP RIGHT END TOP PORTION DECAYED FULL WIDTH X 5" HIGH X 8" DEEP. (PHOTO) PM ISSUED. BENT 1 CROWN STRIP DECAYED FROM JOIST 4 THRU JOIST 10 WITH UP TO 1/4" CRUSHING. (PHOTO) PM ISSUED. BENT 1 SUB CAP RIGHT END SPAN 2 FACE IS DECAYED 20" L X 2" H X 5" D. (PHOTO) BENT 1 CAP RIGHT END SPAN 1 FACE IS DECAYED AT SPLICE X FULL WIDTH. (PHOTO) BENT 2 SUB CAP IS SURFACE DECAYED AT LEFT END ON SPAN 2 FACE. (PHOTO) BENT 2 CROWN STRIP IS DECAYED FROM JOIST 5 THRU JOIST 9. (PHOTO) BENT 2 SUB CAP IS SURFACE DECAYED AT LEFT END. (PHOTO) BENT 2 CAP, LEFT END IS SURFACE DECAYED 3' WIDE X 6" TO 10" HIGH X UP TO 1 1/2" DEEP. (PHOTO) END BENT 2 LEFT END CROWN STRIP IS DECAYED 62" L X 2" H X 4" W. (PHOTO)	

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 RAY L. KISNER			
Assisted By STEVE BARNES			
Item No.	Grade		
35b	F	(TIMBER PILES) THE PILES EXHIBITS SOME SOFTNESS NOTED AT THE WATERLINE. THE PILES ARE RETAINING MOISTURE AND CAN BE PENETRATED 1/2" TO 1" WITH A HAMMER. PILES 1, 2, AND 3 ON BENT 2 HAVE DECAY 2 TO 3" NEAR THE BASE OF THE PILES. THERE IS ONLY 6" OF EXPOSED PILES ABOVE THE WATERLINE AT TIME OF INSPECTION. ALSO SEE DIVERS UNDERWATER REPORT DATED 10/28/08.	
35c	F	(TIMBER BULKHEADS) CHECKING AND SPLITTING WAS NOTED ON BULKHEADS AND AT ALL WINGWALLS. THERE ARE DECAYED WINGWALL BOARDS AT SOUTHEAST CORNER. (PHOTO) THERE ARE DECAYED BULKHEAD BOARDS AT NORTHEAST CORNER. (PHOTO) THE TOP TWO WINGWALL BOARDS ARE DECAYED AT SOUTHWEST CORNER. (PHOTO)	
50	F	(APPROACH ROADWAY) THE WEST APPROACH ASPHALT WEARING SURFACE IS SPALLED 16" L X 7" W X UP TO 1 1/4" D IN THE WEST BOUND LANE. (PHOTO)	
61	YES	THE EAST APPROACH ASPHALT WEARING SURFACE CRACKING SEALED. (PHOTO) (PRIORITY MAINTENANCE ISSUED) ON BENT CAPS, CROWNSTRIPS, AND SOME JOISTS	
62	YES	(PRESENTLY POSTED) SV - 24 TONS, TTST - 31 TONS	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 770223

County ROBESON

Date: 02/25/2014

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3304	Maintain/Replace Timber Superstructure Components	LF	17 TSE	JOIST 17 IN SPAN 3 AT BENT 2 IS END DECAYED FULL HEIGHT X 1" TO 20" DEEP X 3" TO 5" WIDE PM ISSUED	
 3304	Maintain/Replace Timber Superstructure Components	LF	17	JOIST 18 IN SPAN 1 AT BENT 1 IS END DECAYED 5" WIDE X 4" HIGH X 14" DEEP PM ISSUED.	
 3304	Maintain/Replace Timber Superstructure Components	LF	17	JOIST 18 IN SPAN 2 AT BENT 1 IS END DECAYED TOP, 6" HIGH X 5" WIDE X 15" DEEP, BOTTOM IS 6" HIGH X 4" WIDE X 15" DEEP PM ISSUED	
 3344	Repair / Replace Timber Substructure Components	LF	10 12/9/14	BENT 2 CROWN STRIP IN SPAN 3 IS DECAYED FROM JOIST 8 THRU JOIST 14 WITH UP TO 1/2" CRUSHING PM ISSUED	
 3344	Repair / Replace Timber Substructure Components	LF	8	BENT 1 CROWN STRIP DECAYED FROM JOIST 4 THRU JOIST 10 WITH UP TO 1/4" CRUSHING PM ISSUED	
 3344	Repair / Replace Timber Substructure Components	LF	3 TSE	BENT 1 CAP RIGHT END TOP PORTION DECAYED FULL WIDTH X 5" HIGH X 8" DEEP	
2816	Asphalt Surface Repair or Replacement	SY	3	SPAN 2 ASPHALT WEARING SURFACE IN WEST BOUND LANE IS UNEVEN UP TO 2"	
2816	Asphalt Surface Repair or Replacement	SY	2	ASPHALT WEARING SURFACE OVER BENT 2 IS UNEVEN WITH SPALL IN EAST BOUND LANE 12" DIAMETER X 2" DEEP	
2816	Asphalt Surface Repair or Replacement	SY	1	WEST APPROACH ASPHALT WEARING SURFACE IS SPALLED 16" L X 7" W X UP TO 1 1/4" D IN THE WEST BOUND LANE	
3304	Maintain/Replace Timber Superstructure Components	LF	17	JOIST 1 IN SPAN 3 AT END BENT 2 IS DECAYED 22" L X 4" WIDE X 2" H , SEE SKETCH	
3318	Maint to Concrete Handrail	LF	1	LEFT RAIL BAR IN SPAN 3 IS SPALLED 3" W X 4" H X 1 1/2" D	
3344	Repair / Replace Timber Substructure Components	LF	6	BENT 2 CROWN STRIP IS DECAYED FROM JOIST 5 THRU JOIST 9	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 770223

County ROBESON

Date: 02/25/2014

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3344	Repair / Replace Timber Substructure Components	LF	5	END BENT 2 LEFT END CROWN STRIP IS DECAYED 62" L X 2" H X 4" W	
3344	Repair / Replace Timber Substructure Components	LF	5	BENT 2 SUB CAP IS SURFACE DECAYED AT LEFT END ON SPAN 2 FACE	
3344	Repair / Replace Timber Substructure Components	LF	5	BENT 2 SUB CAP IS SURFACE DECAYED AT LEFT END	
3344	Repair / Replace Timber Substructure Components	LF	3	BENT 1 SUB CAP RIGHT END SPAN 2 FACE IS DECAYED 20" L X 2" H X 5" D	
3344	Repair / Replace Timber Substructure Components	LF	3	BENT 2 CAP, LEFT END IS SURFACE DECAYED 3' WIDE X 6" TO 10" HIGH X UP TO 1 1/2" DEEP	
3346	Repair / Maintain Timber Wings & Blkhds	SF	4	TOP WINGWALL BOARDS ARE DECAYED AT SOUTHWEST CORNER	
3346	Repair / Maintain Timber Wings & Blkhds	SF	5	THERE ARE DECAYED BULKHEAD BOARDS AT NORTHEAST CORNER	
3346	Repair / Maintain Timber Wings & Blkhds	SF	5	THERE ARE DECAYED WINGWALL BOARDS AT SOUTHEAST CORNER	
3376	Clean/Wash Bridge Decks	SF	50	THERE IS DEBRIS AND VEGETATION ALONG LEFT CURB	
3376	Clean/Wash Bridge Decks	SF	50	THERE IS DEBRIS AND VEGETATION ALONG RIGHT CURB	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 770223

County ROBESON

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3304	Maintain/Replace Timber Superstructure Components	17 LF
Location:		
Beams and Girders	Bent/Span No. 3	TIMBER JOIST 17
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
02/26/2014	R.L.KISNER	STEVE BARNES
Details		
JOIST 17 IN SPAN 3 AT BENT 2 IS END DECAYED FULL HEIGHT X 1" TO 20" DEEP X 3" TO 5" WIDE PM ISSUED		

MMS Code	MMS Description	Quantity
3304	Maintain/Replace Timber Superstructure Components	17 LF
Location:		
Beams and Girders	Bent/Span No. 1	JOIST 18
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
02/26/2014	R.L.KISNER	STEVE BARNES
Details		
JOIST 18 IN SPAN 1 AT BENT 1 IS END DECAYED 5" WIDE X 4" HIGH X 14" DEEP PM ISSUED.		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 770223

County ROBESON

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3304	Maintain/Replace Timber Superstructure Components	17 LF
Location:		
Beams and Girders	Bent/Span No. 2	JOIST 18
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
02/26/2014	R.L.KISNER	STEVE BARNES
Details		
JOIST 18 IN SPAN 2 AT BENT 1 IS END DECAYED TOP, 6" HIGH X 5" WIDE X 15" DEEP, BOTTOM IS 6" HIGH X 4" WIDE X 15" DEEP PM ISSUED		

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	10 LF
Location:		
Pier Cap	Bent/Span No. 2	CROWN STRIP
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
02/26/2014	R.L.KISNER	STEVE BARNES
Details		
BENT 2 CROWN STRIP IN SPAN 3 IS DECAYED FROM JOIST 8 THRU JOIST 14 WITH UP TO 1/2" CRUSHING PM ISSUED		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 770223

County ROBESON

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	8 LF
Location:		
Pier Cap	Bent/Span No. 1	CROWN STRIP
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
02/26/2014	R.L.KISNER	STEVE BARNES
Details		
BENT 1 CROWN STRIP DECAYED FROM JOIST 4 THRU JOIST 10 WITH UP TO 1/4" CRUSHING PM ISSUED		

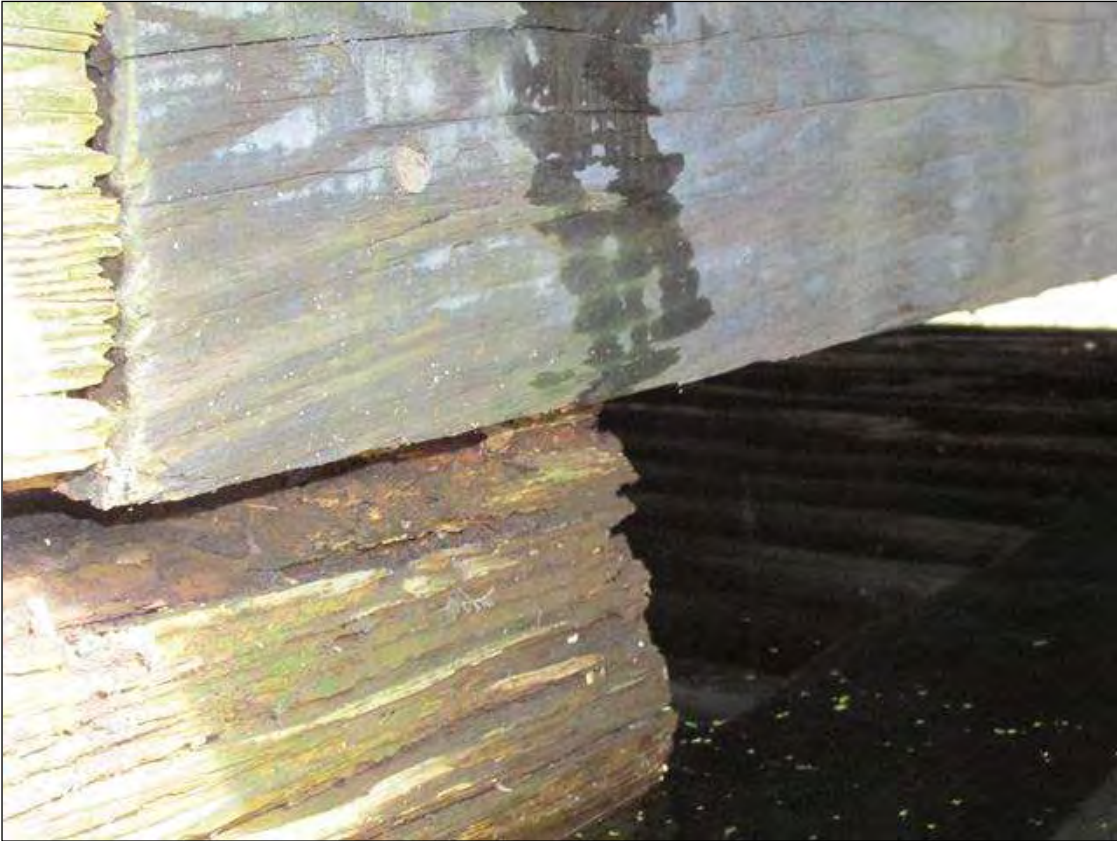
MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	3 LF
Location:		
Pier Cap	Bent/Span No. 1	RIGHT END OF BENT 1 CAP
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
02/26/2014	R.L.KISNER	STEVE BARNES
Details		
BENT 1 CAP RIGHT END TOP PORTION DECAYED FULL WIDTH X 5" HIGH X 8" DEEP		



BENT 1 CAP RIGHT END TOP PORTION DECAYED FULL WIDTH X 5" HIGH X 8" DEEP



CHECKING UP TO 1/8" WIDE IN JOIST 19 IN SPAN 1



BENT 1 SUB CAP RIGHT END SPAN 2 FACE IS DECAYED 20" L X 2" H X 5" D



JOIST 18 IN SPAN 2 AT BENT 1 IS END DECAYED TOP, 6" HIGH X 5" WIDE X 15" DEEP, BOTTOM IS 6" HIGH X 4" WIDE X 15" DEEP PM ISSUED



BENT 1 CROWN STRIP DECAYED FROM JOIST 4 THRU JOIST 10 WITH UP TO 1/4" CRUSHING PM ISSUED



BENT 1 CAP RIGHT END SPAN 1 FACE IS DECAYED AT SPLICE X FULL WIDTH



JOIST 18 IN SPAN 1 AT BENT 1 IS END DECAYED 5" WIDE X 4" HIGH X 14" DEEP PM ISSUED.



BENT 2 SUB CAP IS SURFACE DECAYED AT LEFT END ON SPAN 2 FACE



BENT 2 CROWN STRIP IS DECAYED FROM JOIST 5 THRU JOIST 9



JOIST 17 IN SPAN 3 AT BENT 2 IS END DECAYED FULL HEIGHT X 1" TO 20" DEEP X 3" TO 5" WIDE PM ISSUED



BENT 2 CROWN STRIP IN SPAN 3 IS DECAYED FROM JOIST 8 THRU JOIST 14 WITH UP TO 1/2" CRUSHING
PM ISSUED



BENT 2 SUB CAP IS SURFACE DECAYED AT LEFT END



BENT 2 CAP, LEFT END IS SURFACE DECAYED 3' WIDE X 6" TO 10" HIGH X UP TO 1 1/2" DEEP



JOIST 19 IN SPAN 3 AT END BENT 2 IS DELAMINATED TOP PORTION 5" WIDE X 6" HIGH



THERE ARE DECAYED WINGWALL BOARDS AT SOUTHEAST CORNER



WEST APPROACH ASPHALT WEARING SURFACE IS SPALLED 16" L X 7" W X UP TO 1 1/4" D IN THE WEST BOUND LANE



THERE IS DEBRIS AND VEGETATION ALONG RIGHT CURB



THERE IS DEBRIS AND VEGETATION ALONG LEFT CURB



THERE ARE SEALED TRANSVERSE CRACKS IN ASPHALT WEARING SURFACE OVER BENT 1 JOINT



SPAN 2 ASPHALT WEARING SURFACE IN WEST BOUND LANE IS UNEVEN UP TO 2"



ASPHALT WEARING SURFACE OVER BENT 2 IS UNEVEN WITH SPALL IN EAST BOUND LANE 12" DIAMETER X 2" DEEP



LEFT RAIL BAR IN SPAN 3 IS SPALLED 3" W X 4" H X 1 1/2" D



EAST APPROACH ASPHALT WEARING SURFACE CRACKING SEALED



JOIST 1 IN SPAN 3 AT END BENT 2 IS DECAYED 22" L X 4" WIDE X 2" H , SEE SKETCH



END BENT 2 LEFT END CROWN STRIP IS DECAYED 62" L X 2" H X 4" W



THERE ARE DECAYED BULKHEAD BOARDS AT NORTHEAST CORNER



TOP WINGWALL BOARDS ARE DECAYED AT SOUTHWEST CORNER

Structure Data Worksheet

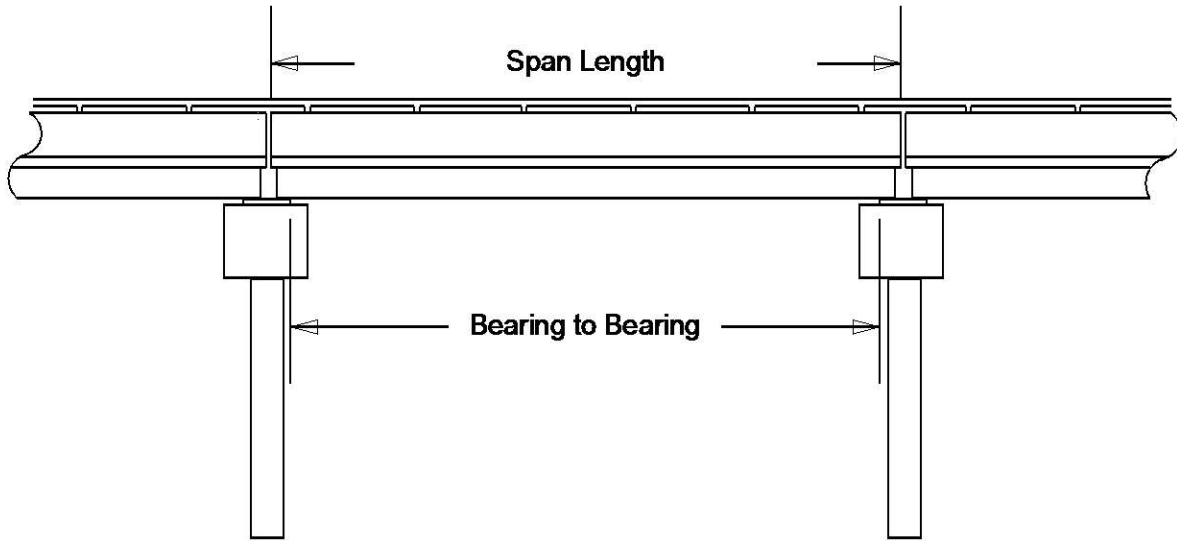
Spans

County: ROBESON

Structure No: 770223

Date: 02/25/2014

Inspected By: RLK



Span No	Span Length	Bearing to Bearing	Comments
1	17.917 FT.	17.083 FT.	
2	17.50 FT.	17.50 FT.	
3	17.25 FT.	16.417 FT.	
TOTAL	52.667 FT.		NBIS 50.167 FT.

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 770223 County: ROBESON Date: 02/25/2014 By: RLK

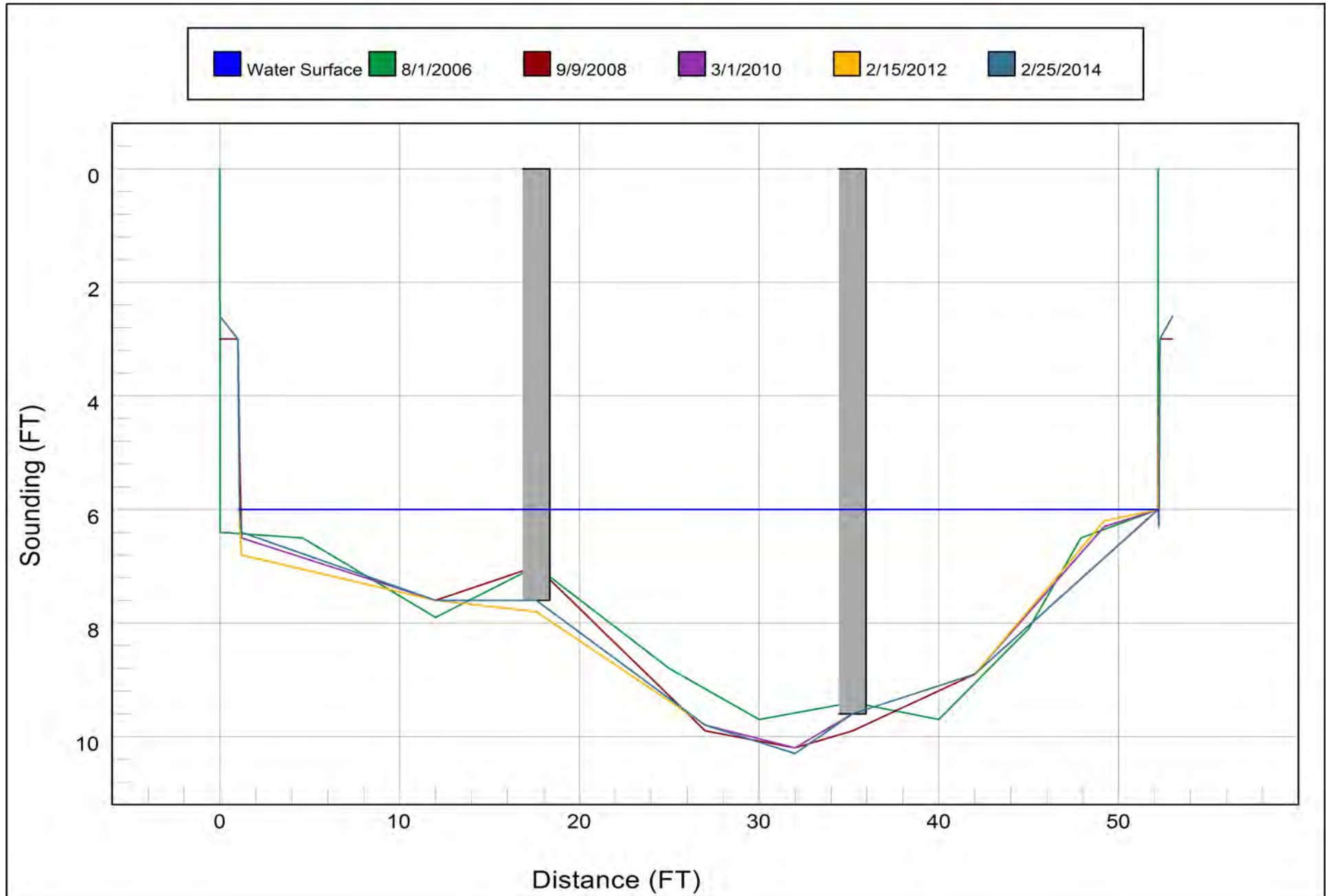
Record sounding from top of rail. Other location if needed: TOP OF RAIL

Distance from Highwater Mark to top of rail: 4 Location of Highwater Mark: BOTTOM OF CAP

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.6	TOP OF BULKHEAD			
1	3	Top of Cap			
1.1	6	WSWE (SOUTH)			
1.2	6.4	BED AT CAP	1.2	7	BED AT CAP
12	7.6				
17.6	7.6	BENT 1	17.6	6.9	BENT 1
27	9.8				
32	10.3				
35.2	9.6	BENT 2	35.2	10.3	BENT 2
42	8.9				
52.2	6	WSWE	52.2	6	GROUND AT CAP
52.25	6.3	BED AT CAP			
52.3	3	Top of Cap			
53	2.6	TOP OF BULKHEAD			

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

SR-1303 (OLD RED SPRINGS ROAD)

Roadway	18.00ft Wide	2 Paved Lanes	Looking East
Left Shoulder	4ft Wide		4.00ft Unpaved
Right Shoulder	4ft Wide		4.00ft Unpaved
Left Guardrail			
Right Guardrail			

MEASUREMENTS VERIFIED BY RLK 3/1/10

MEASUREMENTS VERIFIED BY RLK 2/15/12

MEASUREMENTS VERIFIED BY RLK 2/25/14

Title

APPROACH ROADWAY

Description

LOOKING EAST

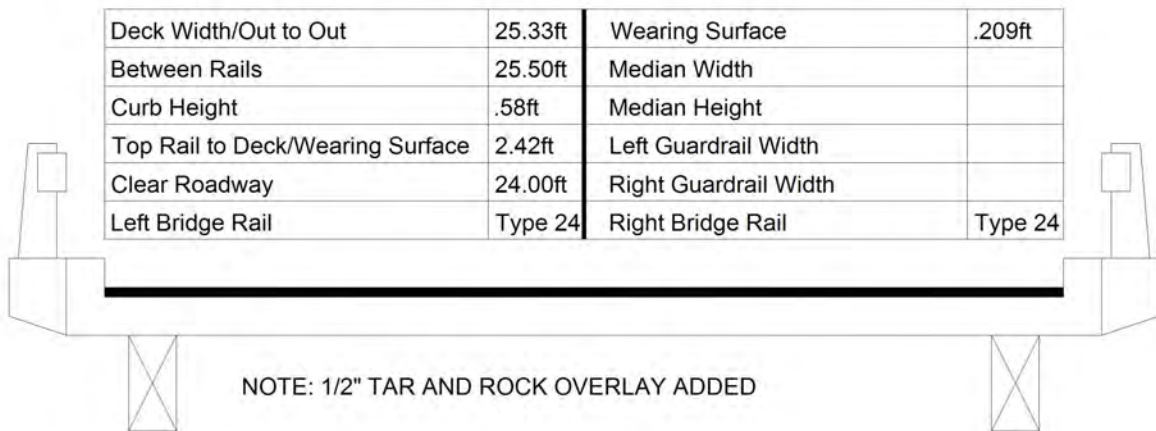
Bridge No: 770223

Drawn By: MSB

Date: 07/10/2006

File Name: S0286000053

Bridge Inspection Field Sketch



NOTE:SIMILAR JOIST



.50' X 1.25'

Measurements for Span #	2	SPANS 1 AND 3 SIMILAR	
Deck Thickness	.417FT.	Left Overhang	.70
Top of Rail to Bottom of Beam	4.25	Right Overhang	.70

Beam No	Beam Type	Spacing	Comments
1	Timber (Rectangular)	1.83ft	MEASUREMENTS VERIFIED BY RLK 3/1/10
2	Timber (Rectangular)	1.33ft	MEASUREMENTS VERIFIED BY RLK 2/15/12
3	Timber (Rectangular)	1.33ft	
4	Timber (Rectangular)	1.33ft	
5	Timber (Rectangular)	1.33ft	
6	Timber (Rectangular)	1.33ft	
7	Timber (Rectangular)	1.33ft	
8	Timber (Rectangular)	1.33ft	
9	Timber (Rectangular)	1.33ft	
10	Timber (Rectangular)	1.33ft	
11	Timber (Rectangular)	1.33ft	
12	Timber (Rectangular)	1.33ft	
13	Timber (Rectangular)	1.33ft	
14	Timber (Rectangular)	1.33ft	
15	Timber (Rectangular)	1.33ft	
16	Timber (Rectangular)	1.33ft	
17	Timber (Rectangular)	1.33ft	
18	Timber (Rectangular)	1.33ft	
19	Timber (Rectangular)		

MEASUREMENTS VERIFIED BY RLK 2/25/14

Title

SUPERSTRUCTURE

Description

SIMILAR SECTION

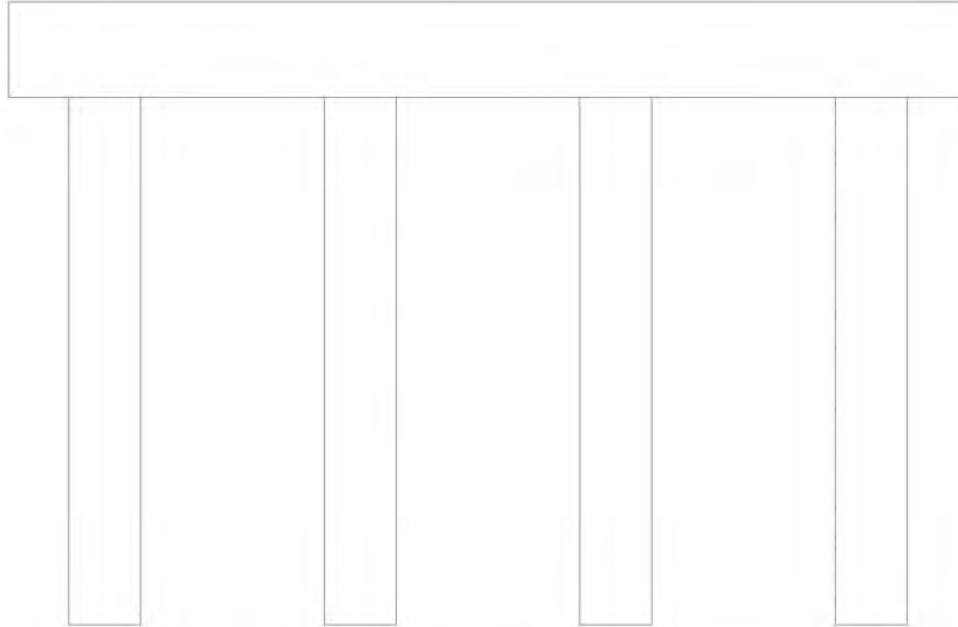
Bridge No: 770223

Drawn By: MSB

Date: 07/10/2006

File Name: S0286000054

Bridge Inspection Field Sketch



NOTE: ABUTMENT 2 SIMILAR

Abutment #	1		
Cap - Beam Type (Wood or Steel)			
Cap Size	26.00ft Long	.96ft Wide	1.00ft High
Left Overhang	1.00ft	Lt Cap/Beam Overhang	1.0ft
Right Overhang	1.00ft	Rt Cap/Beam Overhang	1.0ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	8.00		1.00		Vertical
2	Wood or Timber	Pile Bent	8.00		1.00		Vertical
3	Wood or Timber	Pile Bent	8.00		1.00		Vertical
4	Wood or Timber	Pile Bent			1.00		Vertical

MEASUREMENTS VERIFIED BY RLK 3/1/10

MEASUREMENTS VERIFIED BY RLK 2/15/12

MEASUREMENTS VERIFIED BY RLK 2/25/14

Title

SUBSTRUCTURE

Description

SIMILAR END BENT

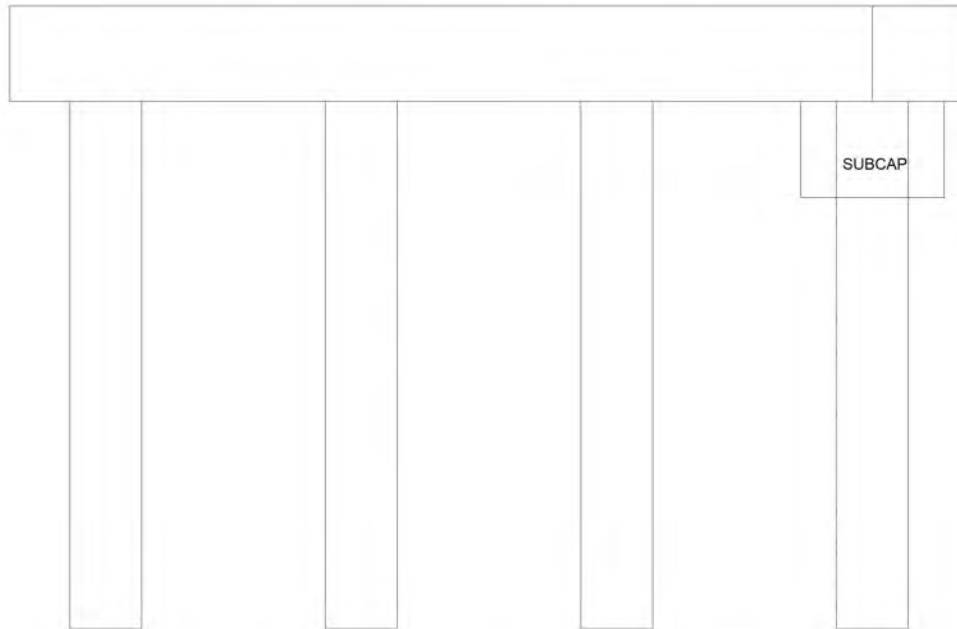
Bridge No: 770223

Drawn By: MSB

Date: 07/10/2006

File Name: S0286000055

Bridge Inspection Field Sketch



Bent #	1		
Cap - Beam Type (Wood or Steel)			
Cap Size	26.00ft Long	.96ft Wide	1.00ft High
Left Overhang	1.00ft	Lt Cap/Beam Overhang	17.6ft
Right Overhang	1.00ft	Rt Cap/Beam Overhang	17.6ft
Timber Sub Cap			
Size	2.33ft Long		
Left pile to splice	24.00ft		
Left Overhang	1.00ft		
Right Overhang	1.00ft		

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	8.00		1.00		Vertical
2	Wood or Timber	Pile Bent	8.00		1.00		Vertical
3	Wood or Timber	Pile Bent	8.00		1.00		Vertical
4	Wood or Timber	Pile Bent			1.00		Vertical

MEASUREMENTS VERIFIED BY RLK 3/1/10
 MEASUREMENTS VERIFIED BY RLK 2/15/12
 MEASUREMENTS VERIFIED BY RLK 2/25/14

Title

SUBSTRUCTURE 1

Description

BENT 1

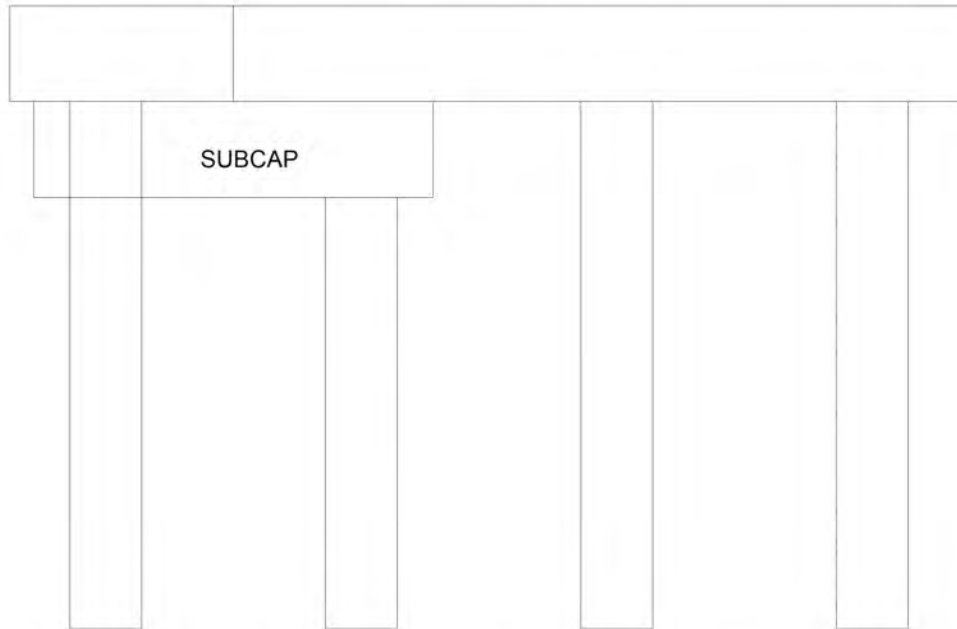
Bridge No: 770223

Drawn By: MSB

Date: 07/10/2006

File Name: S0286000056

Bridge Inspection Field Sketch



Bent #	2		
Cap - Beam Type (Wood or Steel)			
Cap Size	26.00ft Long	.96ft Wide	1.00ft High
Left Overhang	1.00ft	Lt Cap/Beam Overhang	1.0ft
Right Overhang	1.00ft	Rt Cap/Beam Overhang	1.0ft
Timber Sub Cap			
Size	9.83ft Long		
Left pile to splice	2.50ft		
Left Overhang	1.00ft		
Right Overhang	1.00ft		

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	8.00		1.00		Vertical
2	Wood or Timber	Pile Bent	8.00		1.00		Vertical
3	Wood or Timber	Pile Bent	8.00		1.00		Vertical
4	Wood or Timber	Pile Bent			1.00		Vertical

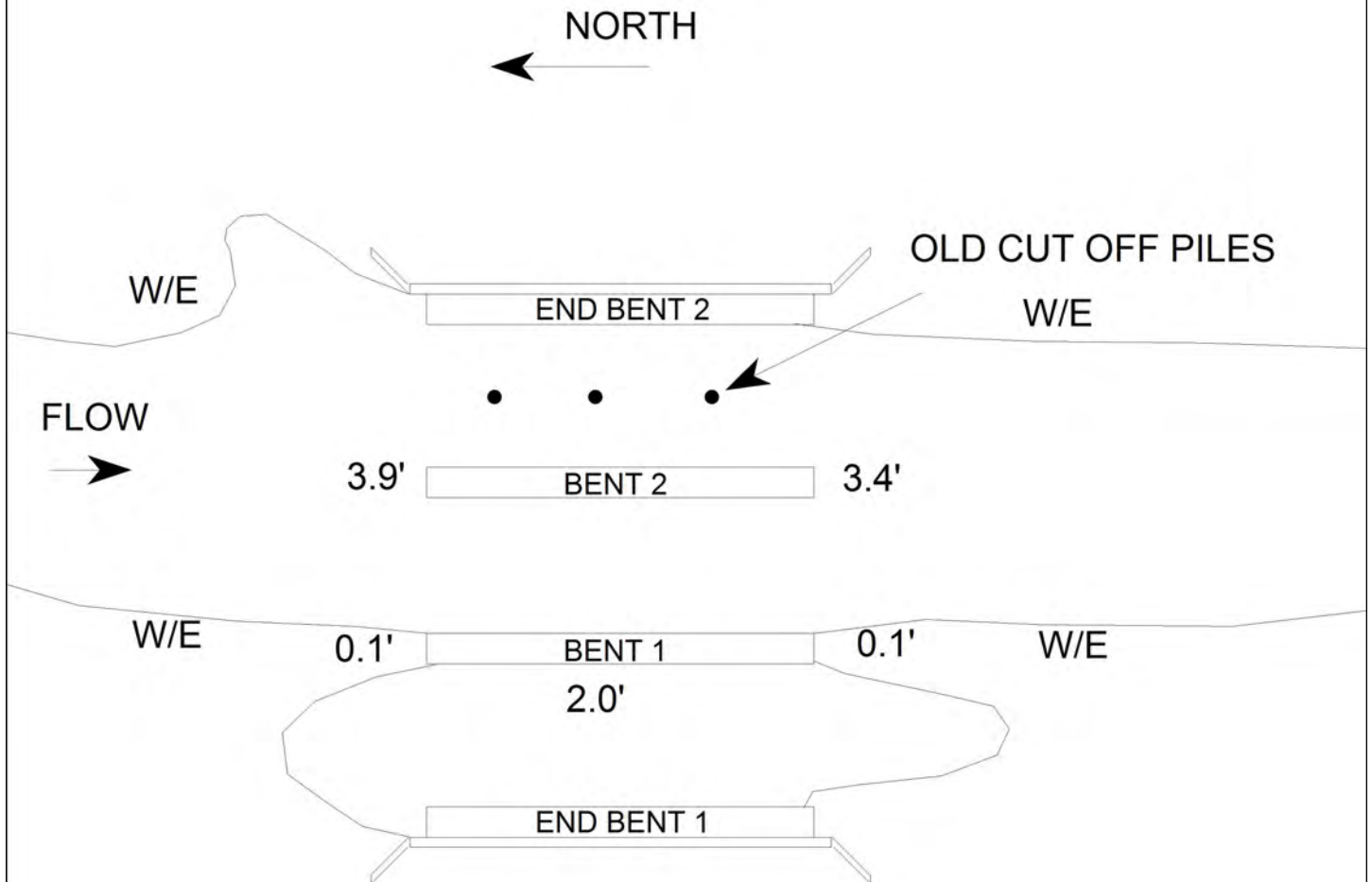
MEASUREMENTS VERIFIED BY RLK 3/1/10

MEASUREMENTS VERIFIED BY RLK 2/15/12

MEASUREMENTS VERIFIED BY RLK 2/25/14

Title	Description		
SUBSTRUCTURE 2	BENT 2		
Bridge No: 770223	Drawn By: MSB	Date: 07/10/2006	File Name: S0286000057

Bridge Inspection Field Sketch



W/S TO TOP OF RAIL - 6.0'
SILT/SAND BOTTOM WITH PROBES TO 6"

Title
PLAN VIEW

Description
CHANNEL OVERVIEW

Bridge No: 770223

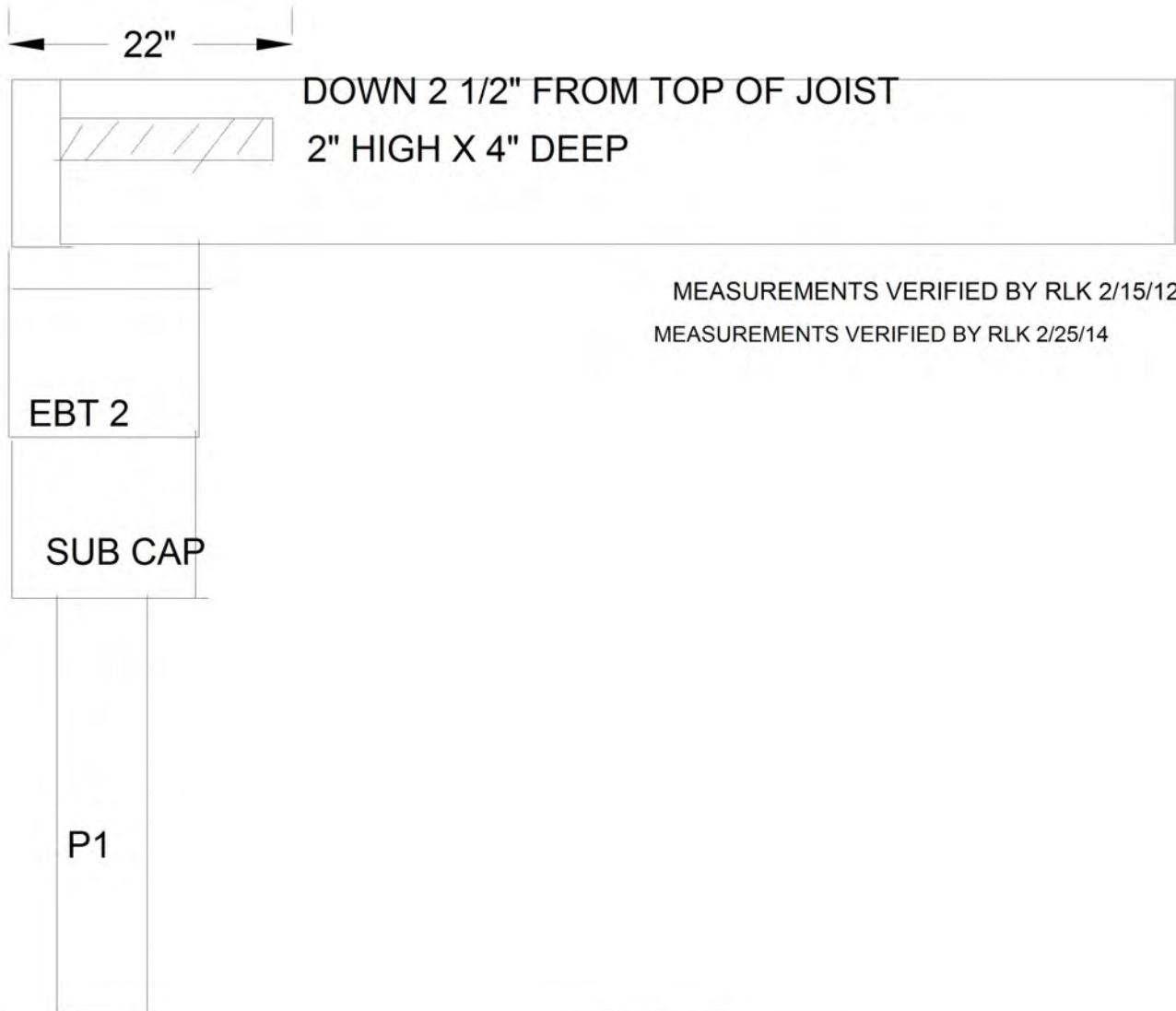
Drawn By: WRM

Date: 10/28/2008

File Name: S0174012459

Bridge Inspection Field Sketch

SPAN 3

**Title**

JOIST 1 DECAY

Description

SP3 AT EBT2

Bridge No: 770223

Drawn By: RLK

Date: 2/15/2012

File Name: S0098001235



NORTH PROFILE



SOUTH PROFILE



END BENT 1



BENT 2, BENT 1 SIMILAR



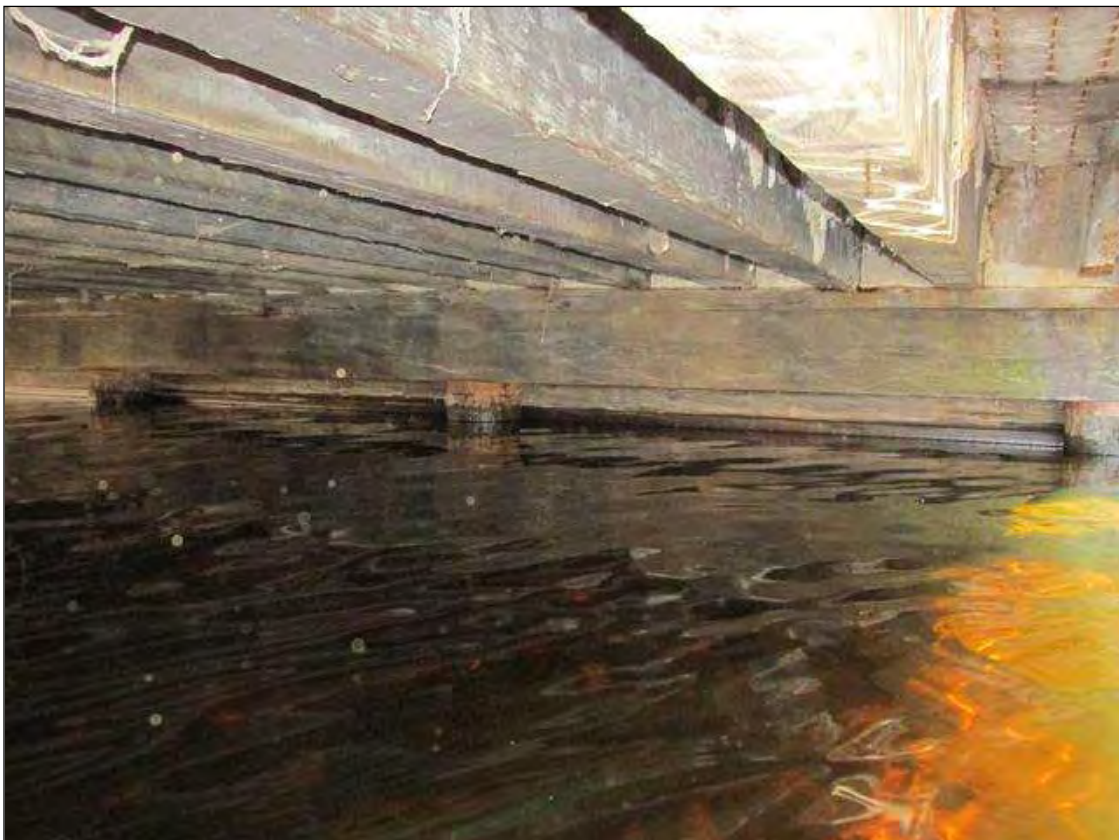
SPAN 2 SUPERSTRUCTURE, ALL SPANS ARE SIMILAR



UPSTREAM NORTH, THRU SPAN 2



DOWNSTREAM SOUTH, THRU SPAN 2



END BENT 2



LOOKING EAST (OLD RED SPRINGS ROAD)



LOOKING EAST, POSTING



LOOKING WEST, OFF BRIDGE



LOOKING EAST, OFF BRIDGE



UPSTREAM NORTH



DOWNSTREAM SOUTH



LOOKING WEST



LOOKING WEST, POSTING