



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

PRIORITY MAINTENANCE ISSUED ON JOIST
TEMPORARY PILE REPAIRS

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY JOHNSTON

BRIDGE NUMBER 500141

INSPECTION CYCLE 2 YRS

ROUTE SR1550

ACROSS WHITE OAK CREEK

M.P. 0

LOCATION 1.0MI.E.JCT SR1525

SUPERSTRUCTURE REINFORCED CONCRETE FLOOR ON TIMBER JOIST STD.BMD-10

SUBSTRUCTURE EBTS&IBTS:TIM.CAPS/TIM.PILES-CRUTCH BT@EBT1

SPANS 1@17'6,1@17'2,1@17'10

LONGITUDE 78° 31' 16.80"

LATITUDE 35° 38' 20.41"

INSPECTION DATE 02/05/2013

PRESENT CONDITION

POOR

*TSU
Fair 3/18/13*

PRESENT POSTING

Y

NOT POSTED

PROPOSED POSTING

OTHER SIGNS PRESENT 2 DELINEATORS WEST END ONLY



LOOKING EAST

Fracture Critical	No
Temporary Shoring	Yes
Scour Critical	No
Scour POA	No

SIGN NOTICE
ISSUED FOR

No

WEIGHT LIMIT

No

DELINEATORS

No

NARROW BRIDGE

No

ONE LANE BRIDGE

No

LOW CLEARANCE

NUMBERED
REQUIRED

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

Run Date: 02/14/2013

IDENTIFICATION							
(1) STATE NAME -NORTH CAROLINA	BRIDGE	500141		SUFFICIENCY RATING =		6	
(8) STRUCTURE NUMBER(FEDERAL)		000000001010141		STATUS =	Structurally Deficient		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31015500					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		3		CLASSIFICATION		CODE	
(3) COUNTY CODE 101 (4) PLACE CODE		0		(112)NBIS BRIDGE SYSTEM -		YES	
(6) FEATURE INTERSECTED - WHITE OAK CREEK				(104)HIGHWAY SYSTEM Is not on NHS		0	
(7) FACILITY CARRIED SR1550				(26) FUNCTIONAL CLASS - Local		09	
(9) LOCATION 1.0MI.E.JCT SR1525				(100)STRAHNET HIGHWAY - Not a STRAHNET Route		0	
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE - No Parallel Structure		N	
(16)LAT 35° 38' 20.41" (17)LONG 78° 31' 16.80"				(102)DIRECTION OF TRAFFIC - 2-way Traffic		2	
(98)BORDER BRIDGE STATE CODE	PCT SHARE			(103)TEMPORARY STRUCTURE - Temporary Structure/Conditions		T	
(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							
(43) STRUCTURE TYPE MAIN: Wood or Timber							
TYPE - Stringer Mutlibeam or Girder	CODE	702					
(44) STRUCTURE TYPE APPR :				CONDITION		CODE	
TYPE -	CODE	000		(58) DECK		6	
(45) NUMBER OF SPANS IN MAIN UNIT		3		(59) SUPERSTRUCTURE		5	
(46) NUMBER OF APPROACH SPANS				(60) SUBSTRUCTURE		3	
(107)DECK STRUCTURE TYPE - 1	CODE			(61) CHANNEL & CHANNEL PROTECTION		5	
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(62) CULVERTS		N	
(A) TYPE OF WEARING SURFACE -	CODE			LOAD RATING AND POSTING		CODE	
(B) TYPE OF MEMBRANE -	CODE			(31) DESIGN LOAD Unknown		0	
(C) TYPE OF DECK PROTECTION -	CODE			(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		0	
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED		P	
				DESCRIPTION - Posted for Load			
AGE AND SERVICE				APPRAISAL			
(27) YEAR BUILT		1955		(67) STRUCTURAL EVALUATION		3	
(106)YEAR RECONSTRUCTED				(68) DECK GEOMETRY		2	
(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		0		(72) APPROACH ROADWAY ALIGNMENT		6	
(29) AVERAGE DAILY TRAFFIC		2100		(36) TRAFFIC SAFETY FEATURES		0000	
(30) YEAR OF ADT 2011 (109) TRUCK ADT PCT		6%		(113)SCOUR CRITICAL BRIDGES		5	
(19) BYPASS OR DETOUR LENGTH		7 MI		PROPOSED IMPROVEMENTS			
GEOMETRIC DATA				(75) TYPE OF WORK -		CODE	
(48) LENGTH OF MAXIMUM SPAN		17 FT		(76) LENGTH OF STRUCTURE IMPROVEMENT			
(49) STRUCTURE LENGTH		53 FT		(94) BRIDGE IMPROVEMENT COST			
(50)CURB OR SIDEWALK: LEFT 0 FT RIGHT 0 FT				(95) ROADWAY IMPROVEMENT COST			
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		23.167 FT		(96) TOTAL PROJECT COST			
(52) DECK WIDTH OUT TO OUT		24.333 FT		(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		20 FT		(114)FUTURE ADT 4200 (115) YEAR FUTURE ADT 2025			
(33) BRIDGE MEDIAN - No Median	CODE	0		INSPECTIONS			
(34) SKEW 0° (35) STRUCTURE FLARED		0		(90) INSPECTION DATE		02/05/2013	
(10) INVENTORY ROUTE MIN VERT CLEAR		999.9 FT		(92) CRITICAL FEATURE INSPECTION :		(93) CFI DATE	
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		23.167 FT		A) FRACTURE CRIT DETAIL - NO		A)	
(53) MIN VERT CLEAR OVER BRIDGE RDWY		999.9 FT		B) UNDERWATER INSP - YES 48Mo		B)	01/12/2010
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad		0 FT		C) OTHER SPECIAL INSP NO		C)	
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad		000 FT		SCOUR			
(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					

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 02/14/2013

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
JOHNSTON	4	3	500141	53	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1550	WHITE OAK CREEK

LOCATED :	BRIDGE NAME :	CITY :
1.0MI.E.JCT SR1525		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	2100 2011	LT 241 RT 241

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1955	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		14 FT		7		FT

SUPERSTRUCTURE :	REINFORCED CONCRETE FLOOR ON TIMBER JOIST STD.BMD-10
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SUBSTRUCTURE :	EBTS&IBTS:TIM.CAPS/TIM.PILES-CRUTCH BT@EBT1
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SPANS :	1@17'6,1@17'2,1@17'10
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BEAMS OR GIRDERS :	19 LINES 6X12 TIMBER JOIST @VAR.CENTERS
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FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
5 RC/2.5 AWS		24.333 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
23.167 FT	23.167 FT	LT 0 FT RT 0 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :				
HS-1	HS-1	int.joist	SV 17	TTST 26	DATE	03/27/1995	

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. 500141 COUNTY JOHNSTON ROUTE SR1550 OVER WHITE OAK CREEK
 STRUCTURE TYPE REINFORCED CONCRETE FLOOR ON TIMBER JOIST STD.BMD-10
 ROUTE ORIENTATION W - E SPANS 1@17'6, 1@17'2, 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			
1. WEARING SURFACE			G	45. CHANNEL & CHANNEL PROT.	a. WATERWAY	F
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58	a. CONCRETE	3	F		b. ALIGNMENT	G
	b. TIMBER				c. SCOUR	F
	c. STEEL PLANK				d. SLOPE PROT., RIP-RAP, DIKES, ETC.	F
	d. OPEN GRID				50. APPROACH ROADWAY CONDITION	F
3. RAILING	a. CONCRETE		F	51. APPROACH SLABS		
	b. TIMBER			52. PAINT SYSTEM CODE		
	c. ALUMINUM			53. UTILITIES		
	d. STEEL		G	54. RESPONSE TO LIVE LOAD	G	
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			G	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	a. STEEL PL OR FINGER			61. PROMPT-ACTION NOTICE ISSUED	YES	
	b. MISC PREFAB			62. PRESENTLY POSTED	YES	
	c. COMPRESSION SEAL			63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)	6	
	d. STANDARD JOINTS	2	F	64. TOTAL SNOOPER INSP. TIME (HRS)	0	
	e. OPEN JOINTS			65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)	0	
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	6
10. LONGITUDINAL BEAMS OR GIRDERS				b. SUPERSTRUCTURE	ITEM 59	5
11. LONGITUDINAL JOIST OR STRINGERS			F	c. SUBSTRUCTURE	ITEM 60	4.5
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S				d. CHANNEL & CHANNEL PROT.	ITEM 61	5
13. END DIAP'S, CURTAIN WALLS, & CONN'S			G	71. SI&A FIELD APPRAISAL RATINGS		
14. FLOOR BEAMS AND CONNECTIONS				a. WATERWAY ADAQUACY		5
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)				b. APPR. RDWY. ALIGNMENT		6
16. DRAINAGE SYSTEM (ON STRUCTURE)			P	72. FIELD SCOUR EVALUATION		
17. MOVABLE SPAN MACHINERY						U
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)				USE OF INSP. ACCESSIBILITY EQUIPMENT		
35. TIM SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS		F	SNOOPER (CODE S, 4, OR N)	HRS	NO
	b. PILES, POST, SILLS, & BRACING		F	LADDER		NO
	c. BULKHEADS, WING'S, & TIE BACKS		F	BUCKET TRUCK		NO
36. CONC SUB STR.	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.	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)			F			
40. FENDER SYSTEMS				80. INSPECTED BY:	W.W. C. Mfg	
41. DRIFT			G	81. REVIEWED BY:		

TS-5
3/18/13

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

BRIDGE: 500141

COUNTY: Johnston

DATE: 3/17/2011

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	T	TSE
S I & A ITEM 59 - SUPERSTRUCTURE		
S I & A ITEM 60 - SUBSTRUCTURE	3	TSE
S I & A ITEM 64 OPERATING RATING		
HS		BY:
S I & A ITEM 66 - INVENTORY RATING		
HS		BY:

COMMENTS

some piles encased with concrete.

*Temp
Repairs*

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 WILLIS C MAY			
Assisted By MG			
Item No.	Grade		
1	G	WEARNING SURFACE CRACKS IN ASPHALT WEARING SURFACE HAVE BEEN SEALED.	
3a	F	CONCRETE RAILS SCALING WITH EXPOSED COARSE AGGREGATE IN FACES. RIGHT GUARDRAIL END POST AT END BENT 2 HAS BEEN REPAIRED.	
7	G	DECK DEBRIS DEBRIS AND VEGETATION OUT 1 FT. ALONG CURBS.	
10A	NO	NO CURVED GIRDERS.	
11	F	TIMBER JOISTS LONGITUDINAL WEATHERING CRACKS AND SOFTNESS IN FACES . SPAN 1 JOIST 1 IS A REPLACEMENT AND HAS A 1 3/4 IN. X 22 IN. LONG DAP WITH 12 IN. BEARING AT END BENT 1 AND 6 IN. AT BENT 1 . JOIST 2 IS A REPLACEMENT AND HAS A 1 3/4 IN. X 22 IN. LONG DAP WITH 12 IN. BEARING AT EACH END. JOIST 4 IS A REPLACEMENT AND HAS A 1 1/2 IN. X 15 IN. LONG DAP WITH 12 IN. BEARING AT EACH END. JOIST 19 IS A REPLACEMENT AND HAS A 1 3/4 IN. X 22 IN. LONG DAP WITH 12 IN. BEARING AT END BENT 1 AND 6 IN. AT BENT 1 . SPAN 2 JOIST 1 IS A REPLACEMENT AND HAS A 1 1/2 IN. X 15 IN. LONG DAP WITH 6 IN. BEARING AT EACH END. THE SHIM BLOCKS PLACED UNDER THE DAP AT BOTH ENDS ARE SOFT AND DECAYED 1/4 TO 1/2 IN. DEEP. JOIST 17 SPAN 2 IS DECAYED IN THE END OVER BENT 2 - 2 IN. TO 4 IN. WIDE X 9 IN. HIGH X 15 IN. LONG. PRIORITY MAINTENANCE ISSUED SPAN 3 JOIST 19 IS A REPLACEMENT AND HAS A 1 1/2 IN. X 3 FT. LONG DAP WITH 12 IN. BEARING AT END BENT 2 AND 6 IN. AT BENT 2 .	
16	P	DRAINAGE SYSTEM ALL OF THE DECK DRAINS ARE CLOGGED.	
35a	F	TIMBER CAPS WEATHERING CHECKS AND SOFTNESS IN FACES. END BENT 1 CAP AND CROWN STRIP ARE REPLACEMENTS. BENT 1 3/8 IN. WIDE VERTICAL CRACK 2 IN. DEEP IN RIGHT END OF CAP. BENT 2 CAP AND CROWN STRIP ARE REPLACEMENTS.	

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 WILLIS C MAY			
Assisted By MG			
Item No.	Grade		
35b	F	TIMBER PILES END BENT 2 PILES CRITICAL CONDITION, CRUTCH BENT IN PLACE OTHERS FAIR CONDITION. PILES ARE DECAYED AND SOFT 1/2 IN. DEEP WITH VERTICAL CHECKS UP TO 1/4 IN. WIDE IN FACES. END BENT 1 PILE 3 HAS BEEN SPLICED AND HAS 30 IN. DIAMETER. CONCRETE COLLAR. VERTICAL CRACK IN COLLAR. PILE 4 END BENT 1 IS DECAYED AND SOFT 1/2 IN. DEEP THE FULL HEIGHT. BENT 1 PILE 2 BENT 1 SPAN 1 SIDE IS DECAYED 1 IN. DEEP X 9 IN. WIDE X 2 FT. HIGH AT THE WATERLINE. PILE 3 HAS BEEN SPLICED AND HAS A 30 IN. DIAMETER. CONCRETE COLLAR. 1/8 IN. WIDE CRACK IN COLLAR ON SPAN 1 AND 2 SIDES. PILE 4 BENT 1 SPAN 1 SIDE AND SPAN 2 SIDE DECAYED 4 IN. WIDE X 1 IN. DEEP X 3 FT. HIGH AT CROSSBRACE CONNECTION. PILE 5 HAS BEEN SPLICED AND HAS A 30 IN. DIAMETER. CONCRETE COLLAR. UP TO 1/8 IN WIDE CRACK IN COLLAR. SPAN 2 SIDE CROSS BRACE HAS BEEN REPLACED. BENT 2 PILE 1 HAS BEEN SPLICED AND HAS 30 IN. DIAMETER CONCRETE COLLAR. VERTICAL CRACK IN CONCRETE COLLAR. PILE 2 BENT 2 SPAN 3 SIDE IS DECAYED 2 IN. DEEP X 4 IN. WIDE X 2 FT. HIGH AND 1/2 TO 3/4 IN. DEEP AROUND THE FULL CIRCUMFERENCE AT THE WATERLINE. PILE 3 HAS BEEN SPLICED AND HAS 30 IN. DIAMETER CONCRETE COLLAR. VERTICAL CRACK IN CONCRETE COLLAR. CONCRETE COLLARS HAVE HAIRLINE VERTICAL CRACKS. PILES 4 & 5 HAVE BEEN SPLICED AND HAVE A 30 IN. DIAMETER CONCRETE COLLAR. END BENT 2 ALL ORIGINAL PILES PUSHED OVER AND SPLIT WITH 50 TO 100 % LOSS OF BEARING. STEEL PILE BENT HAS BEEN PLACED IN FRONT OF ORIGINAL BENT.	

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 WILLIS C MAY			
Assisted By MG			
Item No.	Grade		
35c	F	TIMBER BULKHEADS END BENT 1 RIGHT END OF END BENT 1 BULKHEAD BOARDS 4, 5 AND 6 ARE REPLACEMENTS. LEFT END OF END BENT 1 BULKHEAD LEANING 4 IN. WINGWALL BOARDS ON RIGHT AND TOP 4 BOARDS ON THE LEFT SIDE OF END BENT 1 ARE REPLACEMENTS. BRD. NO. 7 ON RIGHT SIDE WINGWALL IS SHORT EXPOSING FILL MATERIAL. RIGHT SIDE WINGWALL PILE AT END BENT 1 IS DECAYED 3 1/2 IN. DEEP X 9 IN. WIDE X 3 FT. HIGH. 2 IN. GAP WITH EXPOSED FILL IN RIGHT SIDE WINGWALL BETWEEN BOARDS 9 & 10 . END BENT 2 END BENT 2 BULKHEAD BOARDS, WINGWALL BOARDS, AND WINGWALL PILES ARE REPLACEMENTS. BULKHEAD IS BULGED OUT 4 IN. AT MIDHEIGHT. VOID IN FILL BEHIND END BENT 2 BULKHEAD HAS BEEN REPAIRED. RIGHT SIDE WINGWALL END BENT 2 LEANING 2 IN. , RIGHT SIDE WINGWALL BOARD # 4 DECAYED FROM THE END BACK 2 FT.	
45a	F	WATERWAY CUT OFF PILES AND BULKHEAD IN WATERWAY AT END BENT 1. CUT OFF PILES IN WATERWAY AT BENT 1 AND BENT 2.	
50	F	APPROACH ROADWAY CONDITION APPROACHES ARE CRACKED,UNEVEN, AND PATCHED.	
62	YES	SV 17 TTST 26	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 500141

County JOHNSTON

Date: 02/05/2013

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	18 <i>TSE</i> <i>3/18/13</i>	JOIST 17 SPAN 2 IS DECAYED IN THE END OVER BENT 2 - 2 IN. TO 4 IN. WIDE X 9 IN. HIGH X 15 IN. LONG.	
2816	Asphalt Surface Repair or Replacement	SY	140	APPROACH ASPHALT CRACKED, PATCHED, UNEVEN.	
3304	Maintain/Replace Timber Superstructure Components	LF	4	TIMBER SHIMS UNDER ENDS OF JOIST 1 SPAN 2 AT BENT 1 AND BENT 2 ARE DECAYED UP TO 1/2 IN. DEEP.	
3344	Repair / Replace Timber Substructure Components	LF	15	PILES 2 & 4 BENT 1 DECAYED 1 IN. DEEP. PILE 2 BENT 2 DECAYED 2 IN. DEEP.	
3346	Repair / Maintain Timber Wings & Blkhds	SF	300	BULKHEAD BOARDS, WINGWALL BOARDS, AND PILE DECAYED IN SPOTS. END BENT 2 BULKHEAD BULGED OUT , WINGWALLS LEANING.	
3376	Clean/Wash Bridge Decks	SF	200	DEBRIS ALONG CURBS.	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 500141

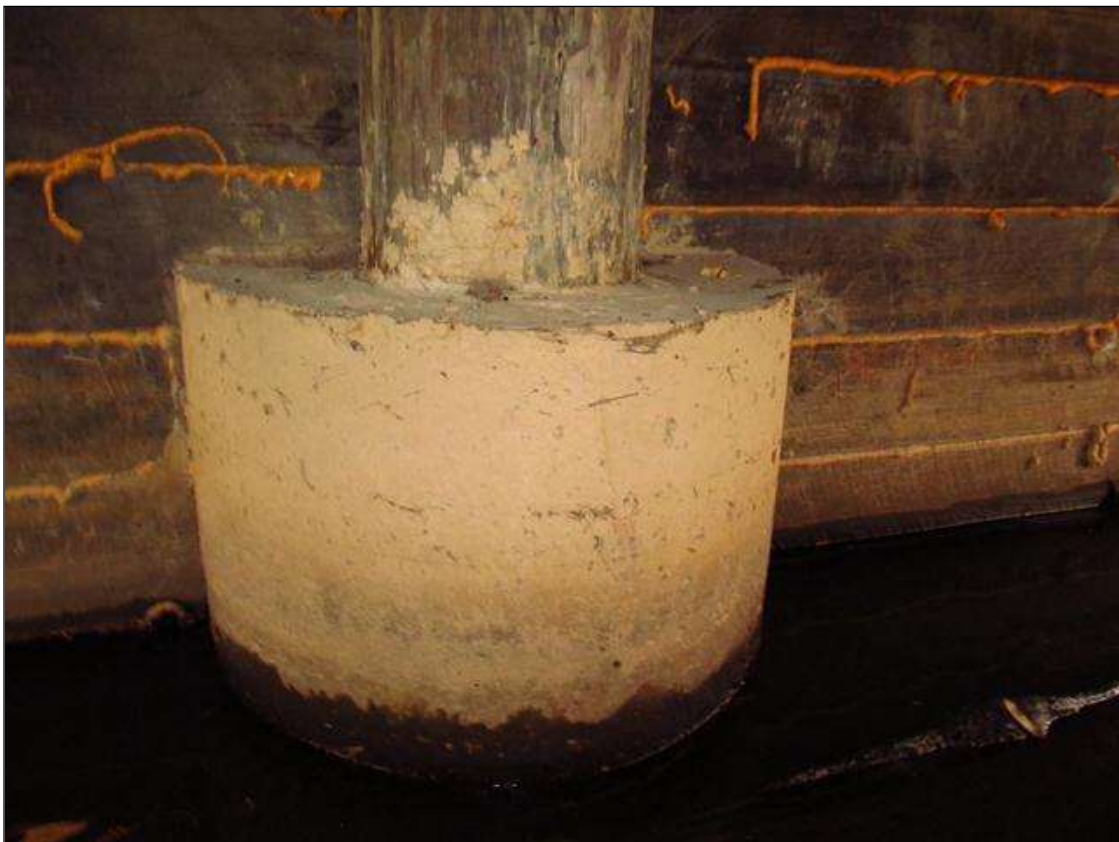
County JOHNSTON

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	18 LF
Location:		
Beams and Girders	Bent/Span No. 2	JOIST 1
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
02/06/2013	WILLIS C MAY	MACK GUDLAUGSSON
Details		
JOIST 17 SPAN 2 IS DECAYED IN THE END OVER BENT 2 - 2 IN. TO 4 IN. WIDE X 9 IN. HIGH X 15 IN. LONG.		



DEBRIS RIGHT GUTTER (LEFT GUTTER SIMILAR)



VERTICAL CRACK IN COLLAR END BENT 1 PILE 3



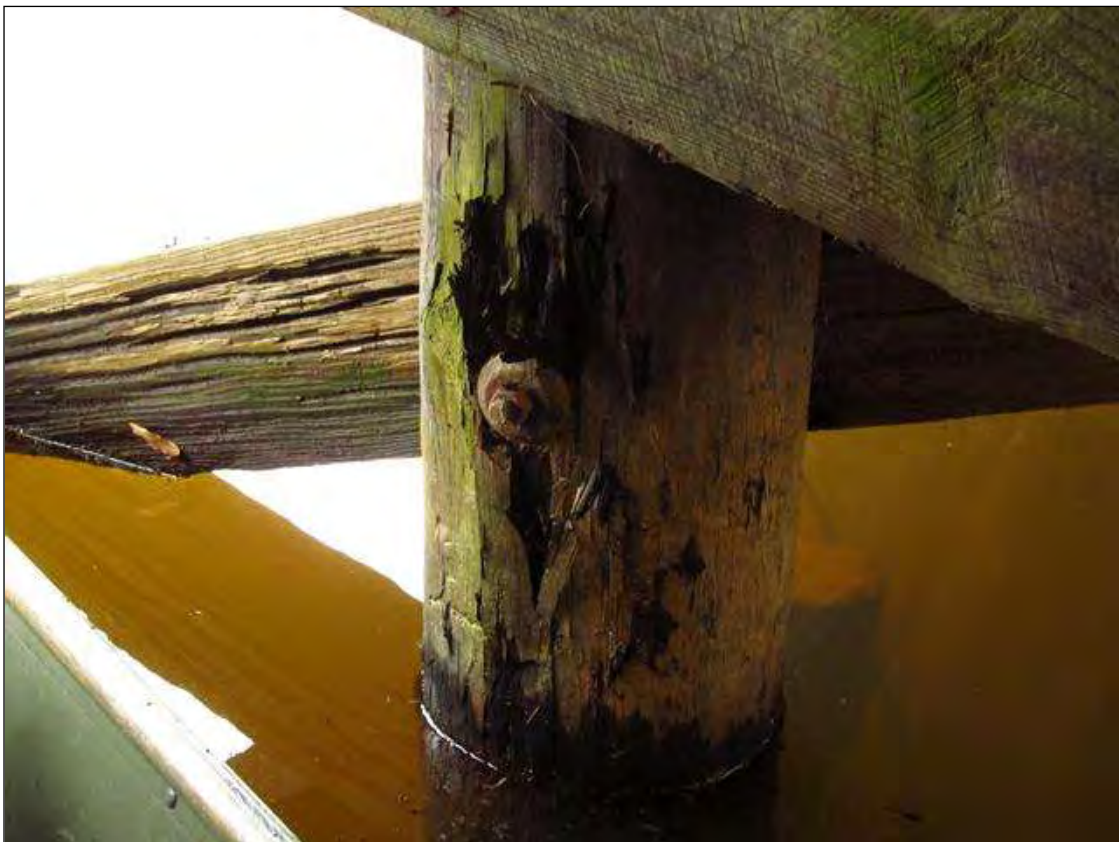
DECAY RIGHT TALL WINGWALL PILE



DECAY PILE 4 BENT 1 SPAN 1



VERTICAL CRACK IN COLLAR BENT 1 PILE 3



DECAY PILE 2 BENT 1 SPAN 1



DECAY IN TIMBER SHIM JOIST 1 BENT 1 SIMILAR AT BENT 2



VERTICAL CRACK IN COLLAR PILE 3 BENT 1 SPAN 2



DECAY PILE 2 BENT 1 SPAN 2



VERTICAL CRACK IN COLLAR PILE 3 BENT 2 SPAN 2



SCALING ON COLLAR AT WATERLINE PILE 1 BENT 2 SPAN 2 (OTHER COLLARS SIMILAR)



VERTICAL CRACK IN COLLAR WITH EFFLORESCENCE PILE 1 BENT 2 SPAN 2



DECAY PILE 2 BENT 2



DECAY JOIST 17 BENT 2



DECAY JOIST 17 BENT 2 (PHOTO 2)



SPLIT PILE 3 END BENT 2



SPLIT PILE 2 END BENT 2

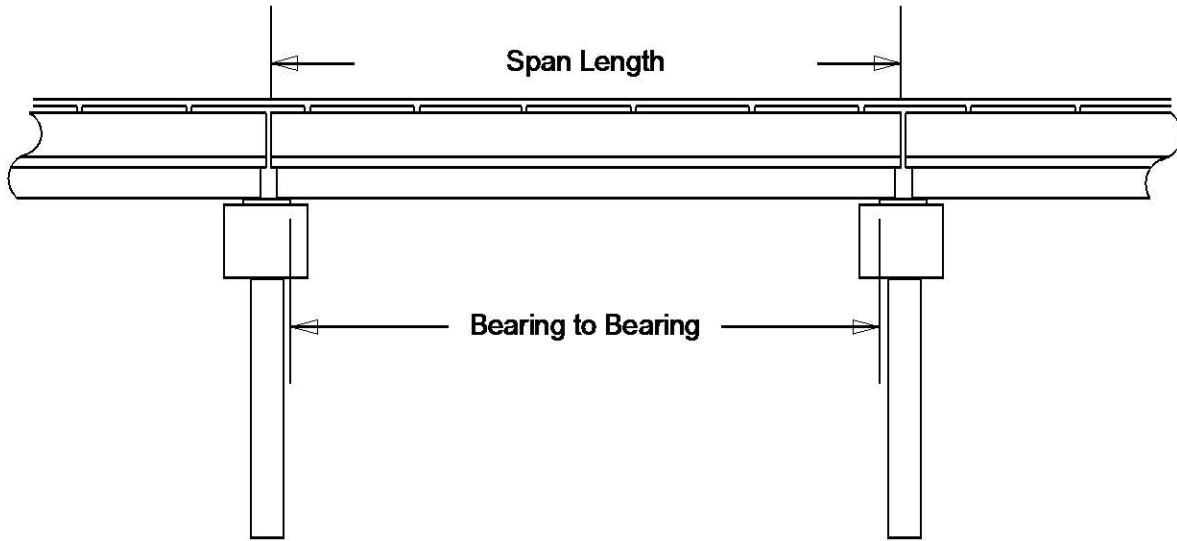


SPLIT PILE 1 END BENT 2

Structure Data Worksheet

Spans

County: JOHNSTON Structure No: 500141 Date: 02/05/2013 Inspected By: WCM



Span No	Span Length	Bearing to Bearing	Comments
1	17.5 FT	16.75 FT	
2	17.167 FT	17.167 FT	
3	17.833 FT	17.083 FT	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 500141 County: JOHNSTON Date: 02/05/2013 By: WCM

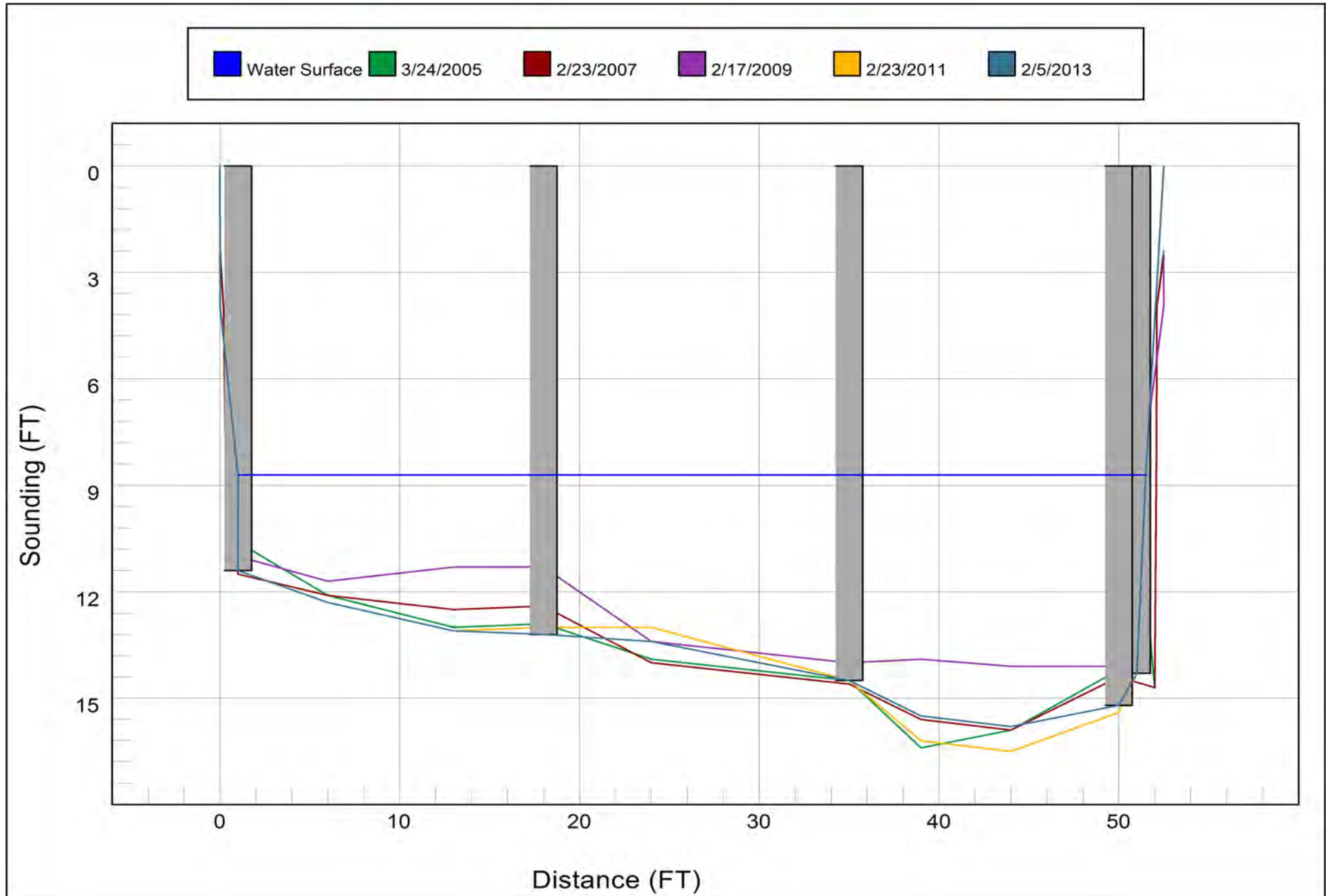
Record sounding from top of rail. Other location if needed: _____

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

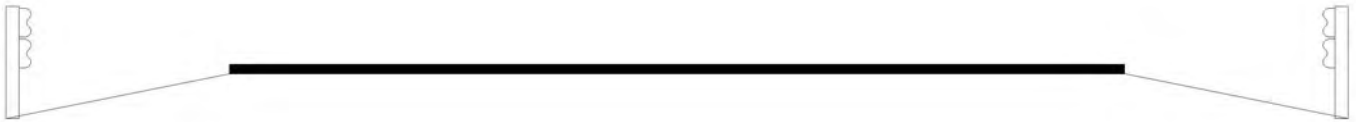
DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	0	TOP OF RAIL			
0.01	4	Top of Cap			
1	8.7	Water Surface/Water Edge (WSWE)			
1.01	11.4	AT END BENT 1	1.01	12.8	AT END BENT 1
6	12.3				
13	13.1				
18	13.2	BENT 1	18	15	BENT 1
24	13.4				
35	14.5	BENT 2	35	17	BENT 2
39	15.5				
44	15.8				
50	15.2	CRUTCH AT END BENT 2	50	14.7	CRUCTH AT END BENT 2
51	14.3	END BENT 2			
51.5	8.7	Water Surface/Water Edge (WSWE)			
52.5	0	TOP OF RAIL			

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



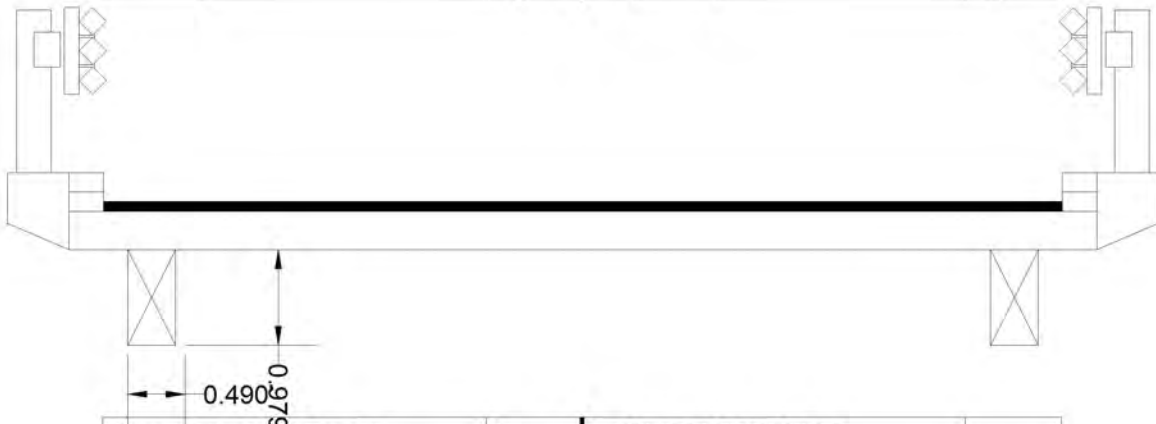
Roadway	20ft Wide	2 Paved Lanes	Looking East
Left Shoulder	5ft Wide		5ft Unpaved
Right Shoulder	5ft Wide		5ft Unpaved
Left Guardrail	5ft from road		
Right Guardrail	5ft from road		

CHECKED: 2/5/13 WCM

Title APPROACH ROADWAY		Description APPROACH ROADWAY	
Bridge No: 500141	Drawn By:CAA	Date:02/17/2009	File Name:S0018000220

Bridge Inspection Field Sketch

Out to Out	24.333ft	Wearing Surface	0.208ft
Between Rails	23.167ft	Median Width	
Curb Height	0.5ft	Median Height	
Guardrail Height	2.292ft	Left Guardrail Width	
Clear Roadway	23.167ft	Right Guardrail Width	
Left Bridge Rail	Type 18	Right Bridge Rail	Type 18



Measurements for Span #	1	ALL SPANS SIMILAR	
Deck Thickness	0.417ft	Left Overhang	0.458ft
Top of Rail to Bottom of Beam	3.708ft	Right Overhang	0.458ft

Beam No	Beam Type	Spacing	Comments
1	Timber (Rectangular)	1.25ft	5 7/8" x 11 3/4" TIMBER JOIST
2	Timber (Rectangular)	1.333ft	5 7/8" x 11 3/4" TIMBER JOIST
3	Timber (Rectangular)	1.333ft	5 7/8" x 11 3/4" TIMBER JOIST
4	Timber (Rectangular)	1.333ft	5 7/8" x 11 3/4" TIMBER JOIST
5	Timber (Rectangular)	1.333ft	5 7/8" x 11 3/4" TIMBER JOIST
6	Timber (Rectangular)	1.333ft	5 7/8" x 11 3/4" TIMBER JOIST
7	Timber (Rectangular)	1.333ft	5 7/8" x 11 3/4" TIMBER JOIST
8	Timber (Rectangular)	1.333ft	5 7/8" x 11 3/4" TIMBER JOIST
9	Timber (Rectangular)	1.333ft	5 7/8" x 11 3/4" TIMBER JOIST
10	Timber (Rectangular)	1.333ft	5 7/8" x 11 3/4" TIMBER JOIST
11	Timber (Rectangular)	1.333ft	5 7/8" x 11 3/4" TIMBER JOIST
12	Timber (Rectangular)	1.333ft	5 7/8" x 11 3/4" TIMBER JOIST
13	Timber (Rectangular)	1.333ft	5 7/8" x 11 3/4" TIMBER JOIST
14	Timber (Rectangular)	1.333ft	5 7/8" x 11 3/4" TIMBER JOIST
15	Timber (Rectangular)	1.333ft	5 7/8" x 11 3/4" TIMBER JOIST
16	Timber (Rectangular)	1.333ft	5 7/8" x 11 3/4" TIMBER JOIST
17	Timber (Rectangular)	1.333ft	5 7/8" x 11 3/4" TIMBER JOIST
18	Timber (Rectangular)	1.833ft	5 7/8" x 11 3/4" TIMBER JOIST
19	Timber (Rectangular)		5 7/8" x 11 3/4" TIMBER JOIST

Title

TYPICAL SECTION

CHECKED: 2/5/13 WCM

Description

TYPICAL SECTION

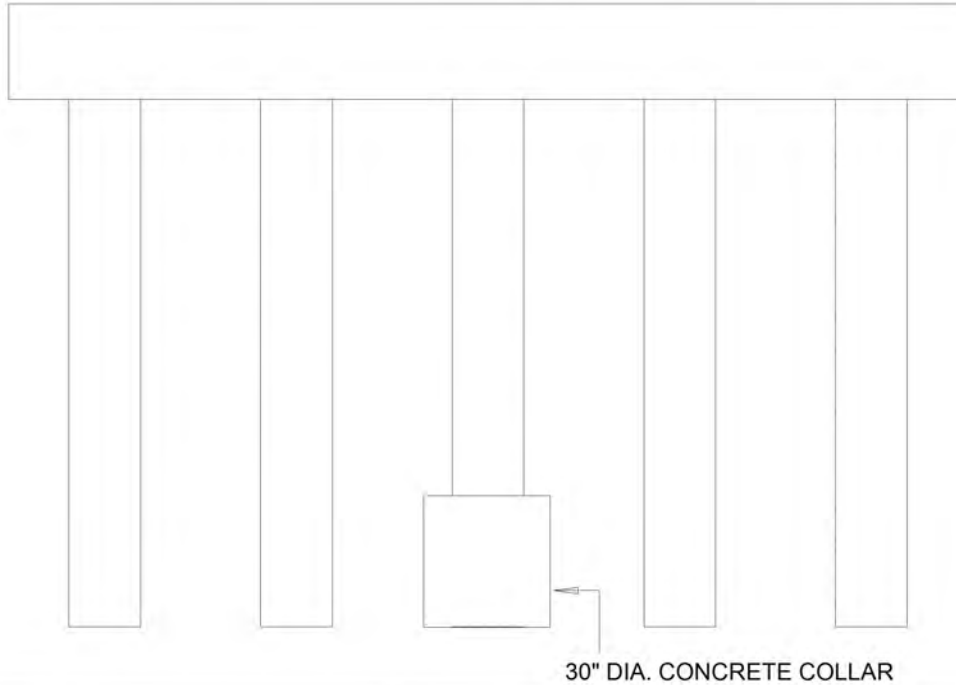
Bridge No: 500141

Drawn By: CAA

Date: 02/17/2009

File Name: S0018000221

Bridge Inspection Field Sketch



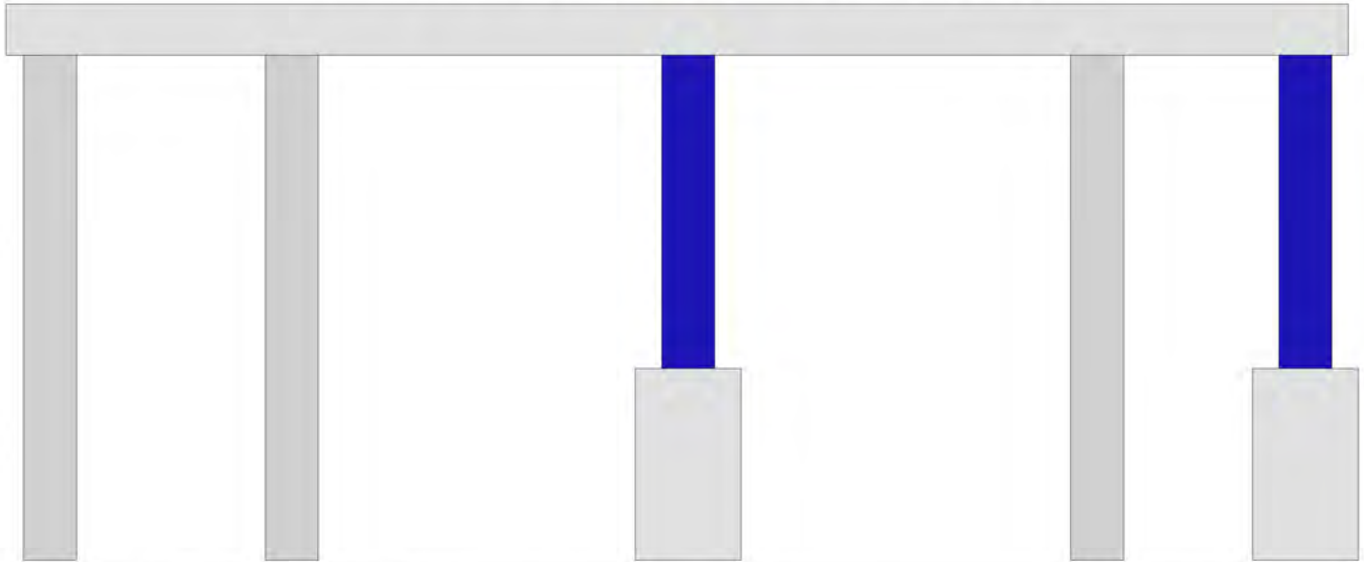
End Bent #	1		
Cap - Beam Type (Wood)			
Cap Size	25.417ft Long	1.0ft Wide	0.979ft High
Left Overhang	0.833ft	Lt Cap/Beam Overhang	1.0ft
Right Overhang	1.417ft	Rt Cap/Beam Overhang	1.0ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	4.583ft		12"		Vertical
2	Wood or Timber	Pile Bent	7.5ft		12"		Vertical
3	Wood or Timber	Pile Bent	7.75ft		12"		Vertical
4	Wood or Timber	Pile Bent	4.0ft		12"		Vertical
5	Wood or Timber	Pile Bent			12"		Vertical

CHECKED: 2/5/13 WCM

Title END BENT 1		Description LOOKING EAST	
Bridge No: 500141	Drawn By: CAA	Date: 02/17/2009	File Name: S0018000223

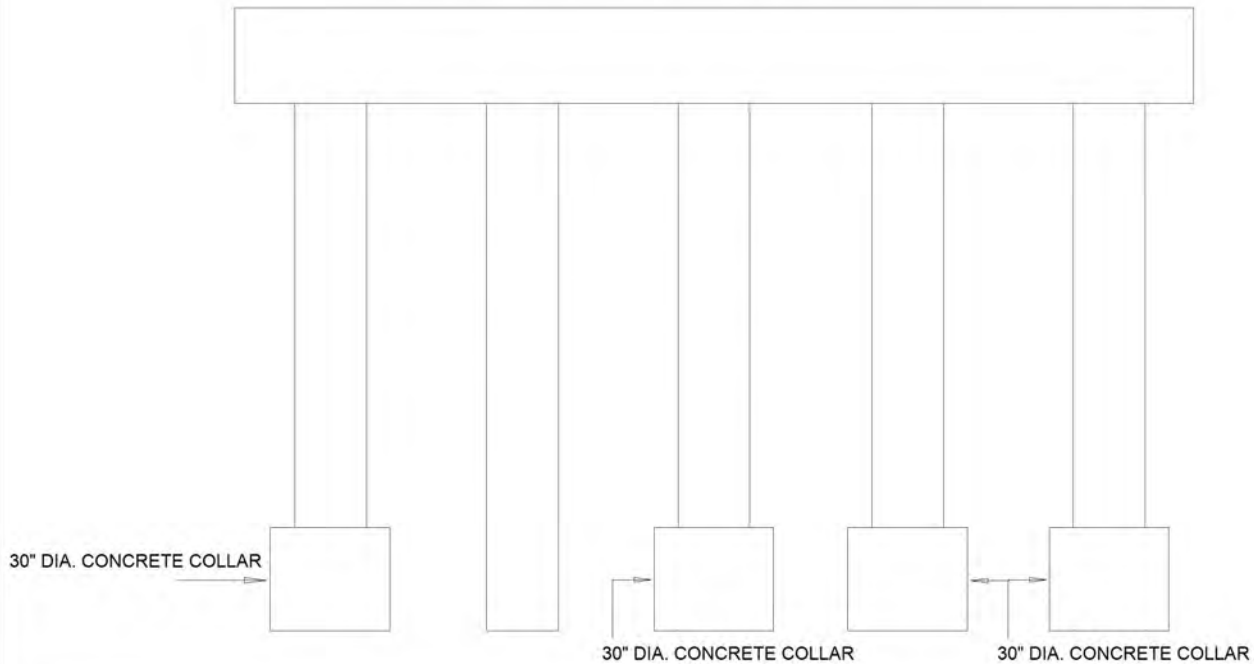
Bridge Inspection Field Sketch



Cap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
25.417 ft.	0.969 ft.	0.969 ft.	0.833 ft.	1.417 ft.	1.0 ft.	1.0 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	4.583 ft.	1 ft.			Vertical	Yes	No	No	No
2	Timber	7.5 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber	7.75 ft.	1 ft.			Vertical	Yes	Yes	No	Yes
4	Timber	4.0 ft.	1 ft.			Vertical	Yes	No	No	No
5	Timber		1 ft.			Vertical	Yes	No	No	No
Bent/Abutment #: 1 Similar Bents:										

Title BENT 1		CHECKED: 2/5/13 WCM		Description BENT 1	
Bridge No: 500141		Drawn By: WCM		Date: 2/23/2011	
File Name: S0014003963					

Bridge Inspection Field Sketch



Bent #	2		
Cap - Beam Type (Wood)			
Cap Size	25.417ft Long	0.969ft Wide	0.969ft High
Left Overhang	0.833ft	Lt Cap/Beam Overhang	1.0ft
Right Overhang	1.417ft	Rt Cap/Beam Overhang	1.0ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	4.583ft		12"		Vertical
2	Wood or Timber	Pile Bent	7.5ft		12"		Vertical
3	Wood or Timber	Pile Bent	7.75ft		12"		Vertical
4	Wood or Timber	Pile Bent	4.0ft		12"		Vertical
5	Wood or Timber	Pile Bent			12"		Vertical

CHECKED: 2/5/13 WCM

Title

BENT 2

Description

LOOKING EAST

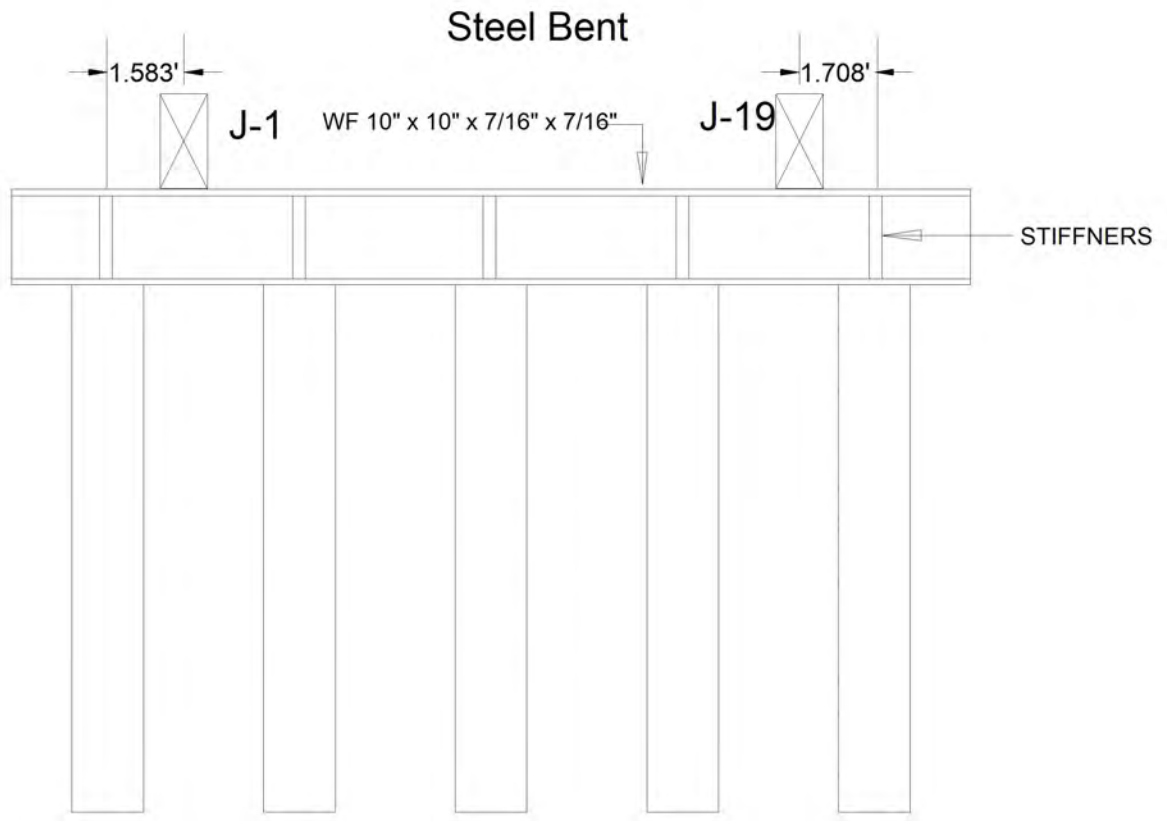
Bridge No: 500141

Drawn By: CAA

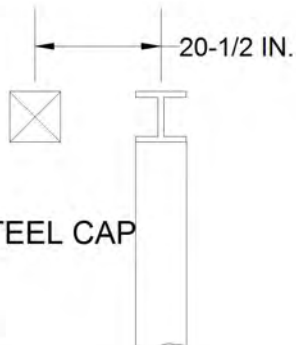
Date: 02/17/2009

File Name: S0018000224

Bridge Inspection Field Sketch



Pile #	Material	Pile Type	Spacing	Length	Width/Diam	Height	Orientation
1	Steel	Pile Bent	7.0ft		10" HPILE		Vertical
2	Steel	Pile Bent	5.75ft		10" HPILE		Vertical
3	Steel	Pile Bent	6.458ft		10" HPILE		Vertical
4	Steel	Pile Bent	8.417ft		10" HPILE		Vertical
5	Steel	Pile Bent			10" HPILE		Vertical



TIMBER CAP TO STEEL CAP

CHECKED: 2/5/13 WCM

Title

END BENT 2 (STEEL BENT)

Description

LOOKING EAST

Bridge No: 500141

Drawn By: CAA

Date: 02/17/2009

File Name: S0018000222

Bridge Inspection Field Sketch

4.50 FT Abutment 2 4.50 FT

WEST

3.9 FT Bent 2 5.5 FT

6.5 FT Bent 1 8.1 FT

Current: LIGHT

STREAMBED COMP: SILT,CLAY COARSE RIVER SAND

PROBE: 2 FT

W/S: 8.2 FT AT BENT 2, NORTH SIDE

5.5 FT Abutment 1 FT6.4

Title

PLAN VIEW

Description

TIMBER/STEEL SUBSTRUCTURE

Bridge No: 500141

Drawn By: JCB

Date: 01/23/2006

File Name: S0162000032



LOOKING EAST



APPROACH 1 ASPHALT WEARING SURFACE



POSTING SIGN LOOKING EAST



GUARDRAIL



GUARDRAIL ATTACHMENT



LEFT CONCRETE RAIL AND GUARDRAIL (RIGHT CONCRETE RAIL AND RIGHT GUARDRAIL SIMILAR)



ASPHALT WEARING SURFACE OVER END BENT 1



SPAN 1 ASPHALT WEARING SURFACE



ASPHALT WEARING SURFACE OVER BENT 1



SPAN 2



ASPHALT WEARING SURFACE OVER BENT 2



SPAN 3



LOOKING NORTH



LOOKING SOUTH



APPROACH 1 ROADWAY VIEW



APPROACH 2 ROADWAY VIEW



APPROACH 2 ASPHALT WEARING SURFACE



PROFILE SOUTH SIDE



PROFILE NORTH SIDE



LOOKING WEST



POSTING SIGN LOOKING WEST



END BENT 1



SPAN 1



BENT 1



SPAN 2



BENT 2 SPAN 2



END BENT 2



SPAN 3