



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

PRIORITY MAINTENANCE ISSUED ON JOISTS
TEMPORARY PILE REPAIRS: CONCRETE
ENCASEMENTS

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY JOHNSTON BRIDGE NUMBER 500216 INSPECTION CYCLE 2 YRS
ROUTE SR2143 ACROSS LITTLE BUFFALO CREEK M.P. 0

LOCATION 0.3 MI W JCT SR2165

SUPERSTRUCTURE R.C.FLOOR ON TIMBER JOISTS STD. BMD-10

SUBSTRUCTURE E.BTS&INT.BTS:TIM.CAPS/TIM. PILES;

SPANS 1@17'-7,3@17',1@17'-7

LONGITUDE 78° 9' 48.72"

LATITUDE 35° 35' 47.26"

INSPECTION DATE 10/08/2013

PRESENT CONDITION FAIR

PRESENT POSTING SV 6 TTST 0 SV 19 TTST 28

PROPOSED POSTING

OTHER SIGNS PRESENT 4 DELINEATORS



LOOKING NORTH

Fracture Critical	<u>No</u>
Temporary Shoring	<u>No</u>
Scour Critical	<u>No</u>
Scour POA	<u>Yes</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: 10/21/2013

IDENTIFICATION				CLASSIFICATION			
(1) STATE NAME -NORTH CAROLINA	BRIDGE	500216		SUFFICIENCY RATING =	26.63		
(8) STRUCTURE NUMBER(FEDERAL)		000000001010216		STATUS =	Structurally Deficient		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31021430					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		3					
(3) COUNTY CODE 101	(4) PLACE CODE	0		(112)NBIS BRIDGE SYSTEM -	YES		
(6) FEATURE INTERSECTED -	LITTLE BUFFALO CREEK			(104)HIGHWAY SYSTEM	Is not on NHS	0	
(7) FACILITY CARRIED	SR2143			(26) FUNCTIONAL CLASS -	Minor Collector	08	
(9) LOCATION	0.3 MI W JCT SR2165			(100)STRAHNET HIGHWAY -	Not a STRAHNET Route	0	
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE -	No Parallel Structure	N	
(16)LAT 35° 35' 47.26"	(17)LONG 78° 9' 48.72"			(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				CONDITION			
(43) STRUCTURE TYPE MAIN:	Wood or Timber			(58) DECK		6	
TYPE -	Stringer Multibeam or Girder	CODE	702	(59) SUPERSTRUCTURE		5	
(44) STRUCTURE TYPE APPR :				(60) SUBSTRUCTURE		4	
TYPE -		CODE	000	(61) CHANNEL & CHANNEL PROTECTION		7	
(45) NUMBER OF SPANS IN MAIN UNIT			5	(62) CULVERTS		N	
(46) NUMBER OF APPROACH SPANS							
(107)DECK STRUCTURE TYPE -	1	CODE		LOAD RATING AND POSTING			
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(31) DESIGN LOAD	Unknown	0	
(A) TYPE OF WEARING SURFACE -		CODE		(63) OPERATING RATING METHOD -	Allowable Stress	2	
(B) TYPE OF MEMBRANE -		CODE		(64) OPERATING RATING -	HS-1	1	
(C) TYPE OF DECK PROTECTION -		CODE		(65) INVENTORY RATING METHOD -	Allowable Stress	2	
				(66) INVENTORY RATING -	HS-1	1	
				(70) BRIDGE POSTING -	Posting Required	0	
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED		P	
				DESCRIPTION -	Posted for Load		
AGE AND SERVICE				APPRAISAL			
(27) YEAR BUILT			1958	(67) STRUCTURAL EVALUATION		3	
(106)YEAR RECONSTRUCTED				(68) DECK GEOMETRY		4	
(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		8	
(29) AVERAGE DAILY TRAFFIC			700	(36) TRAFFIC SAFETY FEATURES		0000	
(30) YEAR OF ADT	2012	(109) TRUCK ADT PCT	6%	(113)SCOUR CRITICAL BRIDGES		U	
(19) BYPASS OR DETOUR LENGTH			4 MI				
GEOMETRIC DATA				PROPOSED IMPROVEMENTS			
(48) LENGTH OF MAXIMUM SPAN			17 FT	(75) TYPE OF WORK -		CODE	
(49) STRUCTURE LENGTH			86 FT	(76) LENGTH OF STRUCTURE IMPROVEMENT			
(50)CURB OR SIDEWALK: LEFT	.7915 FT RIGHT		.7915 FT	(94) BRIDGE IMPROVEMENT COST			
(51) BRIDGE ROADWAY WIDTH CURB TO CURB			24 FT	(95) ROADWAY IMPROVEMENT COST			
(52) DECK WIDTH OUT TO OUT			25.33 FT	(96) TOTAL PROJECT COST			
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)			20 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(33) BRIDGE MEDIAN -	No Median	CODE	0	(114)FUTURE ADT	1400	(115) YEAR FUTURE ADT	2025
(34) SKEW	0°	(35) STRUCTURE FLARED	0				
(10) INVENTORY ROUTE MIN VERT CLEAR			999.9 FT	INSPECTIONS			
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR			24 FT	(90) INSPECTION DATE		10/08/2013	
(53) MIN VERT CLEAR OVER BRIDGE RDWY			999.9 FT	(92) CRITICAL FEATURE INSPECTION :		(93) CFI DATE	
(54) MIN VERT UNDERCLEAR REF	Not a Highway or Railroad		0 FT	A) FRACTURE CRIT DETAIL -	NO	A)	
(55) MIN LAT UNDERCLEAR RT REF	Not a Highway or Railroad		000 FT	B) UNDERWATER INSP -	NO	B)	
(56) MIN LAT UNDERCLEAR LT REF -			000 FT	C) OTHER SPECIAL INSP	NO	C)	
				SCOUR			
NAVIGATION DATA							
(38) NAVIGATION CONTROL -	No Navigational Control	CODE	0				
(111)PIER PROTECTION -		CODE					
(39) NAVIGATION VERTICAL CLEARANCE			0				
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR			FT				
(40) NAVIGATION HORIZONTAL CLEARANCE			0 FT				

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 10/21/2013

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
JOHNSTON	4	3	500216	86	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR2143	LITTLE BUFFALO CREEK

LOCATED :	BRIDGE NAME :	CITY :
0.3 MI W JCT SR2165		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
08	NFA	NFA	700 2012	LT 241 RT 241

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1958	BMU			Unknown

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

NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :		
VC 0 FT	HC 0 FT		10 FT		2		FT

SUPERSTRUCTURE :	R.C.FLOOR ON TIMBER JOISTS STD. BMD-10
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SUBSTRUCTURE :	E.BTS&INT.BTS:TIM.CAPS/TIM. PILES;
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SPANS :	1@17'-7,3@17',1@17'-7
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BEAMS OR GIRDERS :	19 LINES 6X12 TIMBER JOISTS@ VAR. CENTERS
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FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
5 RC/3.5 AWS		25.33 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
24 FT	25.583 FT	LT .7915 FT RT .7915 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :				
HS-1	HS-1	Int Joist	SV 19	TTST 28	DATE	11/29/2011	

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. 500216 COUNTY JOHNSTON ROUTE SR2143 OVER LITTLE BUFFALO CREEK
 STRUCTURE TYPE R.C.FLOOR ON TIMBER JOISTS STD. BMD-10
 ROUTE ORIENTATION W - E SPANS 1@17'-7,3@17',1@17'-7

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	G	
					b. ALIGNMENT	F	
					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	5	F	50. APPROACH ROADWAY CONDITION			F
	b. TIMBER			51. APPROACH SLABS			
	c. STEEL PLANK			52. PAINT SYSTEM			CODE
	d. OPEN GRID			53. UTILITIES			
3. RAILING	a. CONCRETE		F	54. RESPONSE TO LIVE LOAD			G
	b. TIMBER			55. ESTIMATED REMAINING LIFE			8
	c. ALUMINUM						
	d. STEEL						
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			F	60. REGULATORY SIGN NOTICE ISSUED			NO
5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)				61. PROMPT-ACTION NOTICE ISSUED			YES
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)			10
	c. COMPRESSION SEAL			64. TOTAL SNOOPER INSP. TIME (HRS)			0
	d. STANDARD JOINTS	4	P	65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)			0
	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	6	
10. LONGITUDINAL BEAMS OR GIRDERS				b. SUPERSTRUCTURE	ITEM 59	5	
11. LONGITUDINAL JOIST OR STRINGERS			F	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			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		8	
16. DRAINAGE SYSTEM (ON STRUCTURE)			G	72. FIELD SCOUR EVALUATION			O
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		F	SNOOPER (CODE S, 4, OR N)			HRS
	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			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)			F	80. INSPECTED BY:			Willie C. May
40. FENDER SYSTEMS				81. REVIEWED BY:			
41. DRIFT			G				

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

BRIDGE: 500216

COUNTY: Johnston

DATE: 1/7/2010

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	4	TSE
S I & A ITEM 64 OPERATING RATING		
HS		BY:
S I & A ITEM 66 - INVENTORY RATING		
HS		BY:

COMMENTS

Pile 1 bent 1 incased in concrete.

*Temporary
Repairs
1/7/10*

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

BRIDGE: 500216

COUNTY: Johnston

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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	4	TSE
S I & A ITEM 64 OPERATING RATING		
HS		BY:
S I & A ITEM 66 - INVENTORY RATING		
HS		BY:

COMMENTS

Pile 1 bent 1 incased in concrete.

*Temporary
Repairs
1/7/10*

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 WTW			
Item No.	Grade		
1	G	WEARING SURFACE TRANSVERSE CRACK IN ASPHALT OVER EXPANSION JOINTS AT INTERIOR BENTS.	
2a	F	CONCRETE DECK SPAN 2 RIGHT VERTICAL FACE OF SPAN 2 DECK IS MAP CRACKED WITH EFFLO LEAKAGE.	
3a	F	CONCRETE RAILS SCALING WITH EXPOSED AGGREGATE IN FACES. HAIRLINE MAP CRACKING WITH EFFFLORESCENCE IN ALL OF THE RIGHT SIDE GUARDRAIL POST BASES OF SPAN 2.	
4	F	CURBS SCALING WITH EXPOSED COARSE AGGREGATE AND HAIRLINE MAP CRACKS IN FACES . SPAN 2 RIGHT SIDE TOP OF CURB SCALED AND SPALLED 3/4 IN. DEEP THE FULL LENGTH OF SPAN.	
6d	P	STANDARD JOINTS JOINTS ARE LEAKING , ALL CAPS AND ENDS OF JOISTS ARE WET.	
10A	NO	NO CURVED GIRDERS.	

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Team Leader WILLIS C MAY			
Assisted By WTW			
Item No.	Grade		
11	F	TIMBER JOISTS LONGITUDINAL WEATHERING CRACKS UP TO 1/8 IN. WIDE IN FACES OF SOME JOISTS. SPAN 1 JOIST 1 IS A REPLACEMENT AND HAS A 1 1/2 IN. DEEP DAP 16 IN. LONG END BENT 1 END AND 1 1/2 IN. DEEP DAP 12 IN. LONG ON THE BENT 1 END. JOIST 5 IS A REPLACEMENT AND HAS A DAP 1 3/4 IN. X 24 IN. AT END BENT 1 AND 1 3/4 IN. X 34 IN. LONG AT BENT 1. JOIST 11 IS A REPLACEMENT AND HAS A DAP 1 3/4 IN. X 24 IN. LONG AT END BENT 1 AND 1 3/4 IN. X 35 IN. LONG AT BENT 1. JOIST 16 IS A REPLACEMENT AND HAS A DAP 1 3/4 IN. X 20 IN. LONG AT END BENT 1 AND 1 3/4 IN. X 32 IN. LONG AT BENT 1. SPAN 2 JOIST 1 SPAN 2 IS A REPLACEMENT AND HAS A 1 1/2 IN. X 8 IN. LONG DAP AT EACH END. JOIST 9 SPAN 2 AT BENT 1 END IS DECAYED IN THE BEARING AREA 6 IN. WIDE X 2 IN. HIGH X 8 IN. LONG. PRIORITY MAINTENANCE ISSUED JOIST 15 SPAN 2 AT BENT 1 IS DECAYED IN THE BEARING AREA 6 IN. WIDE X 3 IN. HIGH X 5 IN. LONG. PRIORITY MAINTENANCE ISSUED JOIST 16 AND 17 SPAN 2 ARE REPLACEMENTS AND HAVE DAPS 3 1/2 IN. X 19 IN. LONG AT BENT 1. JOIST 19 SPAN 2 IS DECAYED IN THE END OF THE JOIST OVER BENT 2 - 3 IN. WIDE X 4 IN. HIGH X 6 IN. LONG. PRIORITY MAINTENANCE ISSUED SPAN 3 JOIST 1 IS A REPLACEMENT AND HAS A 1 1/2 IN. X 8 IN. LONG DAP ON EACH END. JOIST 5 SPAN 3 IS DECAYED IN THE END OVER BENT 2 - 2 IN. HIGH X 6 IN. WIDE X 1/2 IN. DEEP. JOIST 19 SPAN 3 IS DECAYED IN THE END OVER BENT 2 - 4 IN. WIDE X 5 IN. HIGH X 18 IN. LONG. PRIORITY MAINTENANCE ISSUED SPAN 4 JOIST 1 IS A REPLACEMENT AND HAS A 1 1/2 IN. DEEP DAP 6 IN. LONG ON EACH END. JOIST 3 SPAN 4 IS A REPLACEMENT AND HAS A DAP 1 3/4 IN. X 30 IN. LONG AT BENT 3 AND 1 3/4 IN. X 18 IN. LONG AT BENT 4. JOIST 4 SPAN 4 IS A REPLACEMENT AND HAS A DAP 1 3/4 IN. X 18 IN. LONG AT BENT 3 AND 1 3/4 IN. X 25 IN. LONG AT BENT 4. SPAN 5 JOIST 1 IS A REPLACEMENT AND HAS A 1 1/2 IN. DEEP DAP 6 IN. LONG BENT 5 END AND 1 1/2 IN. DEEP DAP 12 IN. LONG ON THE END BENT 2 END. JOIST 7 AT END BENT 2 IS DECAY IN THE BOTTOM AT THE CAP 1 IN. HIGH X 3 IN. WIDE X 6 IN. LONG. JOIST 9 IS A REPLACEMENT AND HAS A 1 1/2 IN. DEEP DAP 25 IN. LONG BENT 5 END AND 1 1/2 IN. DEEP DAP 20 IN. LONG ON THE END BENT 2 END. JOIST 11 IS A REPLACEMENT AND HAS A 1 1/2 IN. DEEP DAP 12 IN. LONG BENT 5 END AND 1 1/2 IN. DEEP DAP 12 IN. LONG ON THE END BENT 2 END. JOIST 19 IS A REPLACEMENT AND HAS A DAP 1 3/4 IN. X 14 IN. LONG AT BENT 4 AND 1 3/4 IN. X 12 IN. LONG AT END BENT 2.	

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Team Leader WILLIS C MAY			
Assisted By WTW			
Item No.	Grade		
35a	F	TIMBER CAPS WEATHERING CRACKS AND UP TO 1/2 IN. DEEP SOFTNESS IN FACES . ALL CAPS AND CROWNSTRIPS ARE WET. END BENT 1 CAP AND CROWNSTRIP ARE REPLACEMENTS. BENT 1 SPAN 1 AND SPAN 2 SIDE OF CAP IS SOFT UP TO 1/2 IN. DEEP . RIGHT END OF BENT 1 CAP DECAYED 5 IN. WIDE X 4 IN. HIGH X 14 IN. LONG IN THE BOTTOM CORNER. PRIORITY MAINTENANCE ISSUED RIGHT END OF BENT 1 CROWNSTRIP DECAYED 2 IN. WIDE X 2 IN. HIGH X 7 IN. LONG. BENT 2 LEFT END OF CAP DECAYED 1 IN. WIDE X 2 IN. HIGH X 1 IN. DEEP. BENT 4 THE LEFT END OF BENT 4 CAP IS DECAYED 2 IN. DIAMETER X 7 IN. DEEP AND DECAYED 4 IN. DIAMETER EXTENDING 21 IN. INTO THE SPAN 5 SIDE FACE 4 IN. HIGH X 2 IN. DEEP BEHIND THE CROSSBRACE CONNECTION OVER PILE 1. THERE IS A 1/4 WIDE SPLIT IN THE AREA OF DECAY 2 IN. DEEP IN THE SPAN 5 SIDE. PRIORITY MAINTENANCE ISSUED END BENT 2 1 TO 2 IN. OF DIRT ON TOP OF END BENT 2 CAP.	
35b	F	TIMBER PILES WEATHERING CRACKS AND SOFTNESS IN FACES. END BENT 1 PILES 1,2,3 HAVE BEEN SPLICED AND HAVE A 30 IN. X 30 IN. CONCRETE COLLAR. PILE 4 END BENT 1 SOUNDS HOLLOW WHEN STRUCK, SHELL IS STILL SOLID. BENT 1 PILE 1 HAS BEEN SPLICED AND HAS A 24 IN. DIAMETER CONCRETE COLLAR. PILES 2 AND 3 HAVE BEEN SPLICED AND HAVE 30 IN. X 30 IN. CONCRETE COLLARS. BENT 2 PILE 1 HAS BEEN SPLICED AND HAS A 24 IN. DIAMETER CONCRETE COLLAR. CONCRETE HAS A 3/8 IN. WIDE CRACK. PILE 2 HAS BEEN SPLICED AND HAS A 4 FT. PIECE OF 10 IN. I-BEAM BOLTED TO THE LEFT AND RIGHT SIDE WITH 8 IN. WIDE X 2 1/2 IN. DEEP DECAY IN ORIGINAL CUTOFF PILE FROM CUT TO GROUND LINE. PILE 3 HAS BEEN SPLICED AND HAS A 30 IN. X 30 IN. CONCRETE COLLAR. BENT 3 ALL PILES HAVE BEEN SPLICED AND HAVE 30 IN. X 30 IN. CONCRETE COLLARS. BENT 4 PILES 1,2, AND 4 HAVE BEEN SPLICED AND HAVE 30 IN. X 30 IN. , 30 IN. DIAMETER , AND 30 IN. X 30 IN. CONCRETE COLARS RESPECTIVELY. END BENT 2 ALL PILES HAVE BEEN SPLICED AND HAVE 24 IN. X 24 IN. CONCRETE COLLARS.	

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Team Leader WILLIS C MAY			
Assisted By WTW			
Item No.	Grade		
35c	F	TIMBER BULKHEADS END BENT 1 THE LEFT AND RIGHT WINGWALL PILES AND LEFT AND RIGHT BULKHEAD PILES HAVE BEEN SPLICED AND HAVE A 2 FT. WIDE X 3 FT. HIGH CONCRETE SILL OVER SPLICE FROM THE SHORT WINGWALL PILE TO THE BULKHEAD PILE IN EACH SIDE. WINGWALL BOARDS HAVE BEEN REPLACED. THE TOP 11 BULKHEAD BOARDS HAVE BEEN REPLACED. END BENT 2 LEFT BULKHEAD PILE AT END BENT 2 HAS BEEN SPLICED AND HAS A 2 FT. X 2 FT. CONCRETE COLLAR AT GROUND LINE. DECAYED BULKHEAD BOARD AT GROUND LINE BETWEEN PILE 3 - 4 HAS BEEN REPLACED. RIGHT BULKHEAD PILE HAS BEEN SPLICED AND HAS A 2 FT. X 2 FT. CONCRETE COLLAR AT GROUND LINE. THE ENDS OF THE RIGHT WINGWALL BOARDS ARE DECAYED 1 TO 2 IN. DEEP.	
45c	G	SCOUR PLAN OF ACTION CODE Z. NO CHANGE IN ESTABLISHED MUDLINE AT TIME OF INSPECTION.	
50	F	APPROACH ROADWAY CONDITION APPROACH 1 THE ASPHALT IN APPROACH 1 AT END BENT 1 HAS BEEN REPLACED THE FULL WIDTH OUT 15 FT. APPROACH 2 TRANSVERSE CRACK IN ASPHALT OVER END BENT 2 WITH 1/2 IN. SETTLEMENT .	
62	YES	SV 19 TTST 28	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 500216

County JOHNSTON

Date: 10/08/2013

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	1 TSE	JOIST 9 SPAN 2 AT BENT 1 END IS DECAYED IN THE BEARING AREA 6 IN. WIDE X 2 IN. HIGH X 8 IN. LONG.	
 3304	Maintain/Replace Timber Superstructure Components	LF	1	JOIST 15 SPAN 2 AT BENT 1 IS DECAYED IN THE BEARING AREA 6 IN. WIDE X 3 IN HIGH X 5 IN. LONG.	
 3304	Maintain/Replace Timber Superstructure Components	LF	1 12/31/13	JOIST 19 SPAN 2 AT BENT 2 IS DECAYED IN THE END - 3 IN. WIDE X 4 IN. HIGH X 6 IN. LONG.	
 3304	Maintain/Replace Timber Superstructure Components	LF	1	JOIST 19 SPAN 3 AT BENT 2 IS DECAYED IN THE END - 4 IN. WIDE X 5 IN. HIGH X 18 IN. LONG.	
 3344	Repair / Replace Timber Substructure Components	LF	2	RIGHT END OF BENT 1 CAP DECAYED 5 IN. WIDE X 4 IN. HIGH X 14 IN. LONG IN THE BOTTOM CORNER. RIGHT END OF BENT 1 CROWNSTRIP DECAYED 2 IN. WIDE X 2 IN. HIGH X 7 IN. LONG.	
 3344	Repair / Replace Timber Substructure Components	LF	2 TSE	THE LEFT END OF BENT 4 CAP IS DECAYED 2 IN. DIAMETER X 7 IN. DEEP AND DECAYED 4 IN. DIAMETER EXTENDING 21 IN. INTO THE SPAN 5 SIDE FACE 4 IN. HIGH X 2 IN. DEEP BEHIND THE CROSSBRACE CONNECTION OVER PILE 1. THERE IS A 1/4 WIDE SPLIT IN THE AREA OF DECAY 2 IN. DEEP IN THE SPAN 5 SIDE.	
2816	Asphalt Surface Repair or Replacement	SY	150	APPROACH 2 CRACKED SETTLED. ASPHALT OVER EXPANSION JOINTS CRACKED.	
3310	Maintenance/Repair/Replacement of Standard Bridge Expansion Joints	LF	96	ALL EXPANSION JOINTS ARE LEAKING.	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 500216

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	1 LF
Location:		
Beams and Girders	Bent/Span No. 2	JOIST 9
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
10/09/2013	WILLIS C MAY	WAYNE T WILKINSON
Details		
JOIST 9 SPAN 2 AT BENT 1 END IS DECAYED IN THE BEARING AREA 6 IN. WIDE X 2 IN. HIGH X 8 IN. LONG.		

MMS Code	MMS Description	Quantity
3304	Maintain/Replace Timber Superstructure Components	1 LF
Location:		
Beams and Girders	Bent/Span No. 2	JOIST 15
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
10/09/2013	WILLIS C MAY	WAYNE T WILKINSON
Details		
JOIST 15 SPAN 2 AT BENT 1 IS DECAYED IN THE BEARING AREA 6 IN. WIDE X 3 IN HIGH X 5 IN. LONG.		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 500216

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	1 LF
Location:		
Beams and Girders	Bent/Span No. 2	JOIST 19
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
10/09/2013	WILLIS C MAY	WAYNE T WILKINSON
Details		
JOIST 19 SPAN 2 AT BENT 2 IS DECAYED IN THE END - 3 IN. WIDE X 4 IN. HIGH X 6 IN. LONG .		

MMS Code	MMS Description	Quantity
3304	Maintain/Replace Timber Superstructure Components	1 LF
Location:		
Beams and Girders	Bent/Span No. 3	JOIST 19
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
10/09/2013	WILLIS C MAY	WAYNE T WILKINSON
Details		
JOIST 19 SPAN 3 AT BENT 2 IS DECAYED IN THE END - 4 IN. WIDE X 5 IN. HIGH X 18 IN. LONG.		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 500216

County JOHNSTON

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	2 LF
Location:		
Pier Cap	Bent/Span No. 1	CAP
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
10/09/2013	WILLIS C MAY	WAYNE T WILKINSON
Details		
RIGHT END OF BENT 1 CAP DECAYED 5 IN. WIDE X 4 IN. HIGH X 14 IN. LONG IN THE BOTTOM CORNER. RIGHT END OF BENT 1 CROWNSTRIIP DECAYED 2 IN. WIDE X 2 IN. HIGH X 7 IN. LONG.		

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	2 LF
Location:		
Pier Cap	Bent/Span No. 4	CAP
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
10/09/2013	WILLIS C MAY	WAYNE T WILKINSON
Details		
THE LEFT END OF BENT 4 CAP IS DECAYED 2 IN. DIAMETER X 7 IN. DEEP AND DECAYED 4 IN. DIAMETER EXTENDING 21 IN. INTO THE SPAN 5 SIDE FACE 4 IN. HIGH X 2 IN. DEEP BEHIND THE CROSSBRACE CONNECTION OVER PILE 1. THERE IS A 1/4 WIDE SPLIT IN THE AREA OF DECAY 2 IN. DEEP IN THE SPAN 5 SIDE.		



DECAY LEFT END AND SPAN 5 SIDE OF BENT 4 CAP PRIORITY MAINTENANCE ISSUED



APPROACH 1 PATCHED



TRANSVERSE CRACK IN WEARING SURFACE OVER BENT 1



DELAMINATION ALONG THE RIGHT SIDE CURB IN SPAN 2



TRANSVERSE CRACK IN WEARING SURFACE OVER BENT 2



TRANSVERSE CRACK IN WEARING SURFACE OVER BENT 3



MAP CRACKING IN IN THE LEFT SIDE SHOULDER ASPHALT IN SPAN 3



TRANSVERSE CRACK IN WEARING SURFACE OVER BENT 3



DEBRIS AND VEGETATION ALONG CURBLINES



TRANSVERSE CRACK IN WEARING SURFACE OVER END BENT 2



2 SPOTS OF DECAY IN THE LEFT END OF CAP AT BENT 4



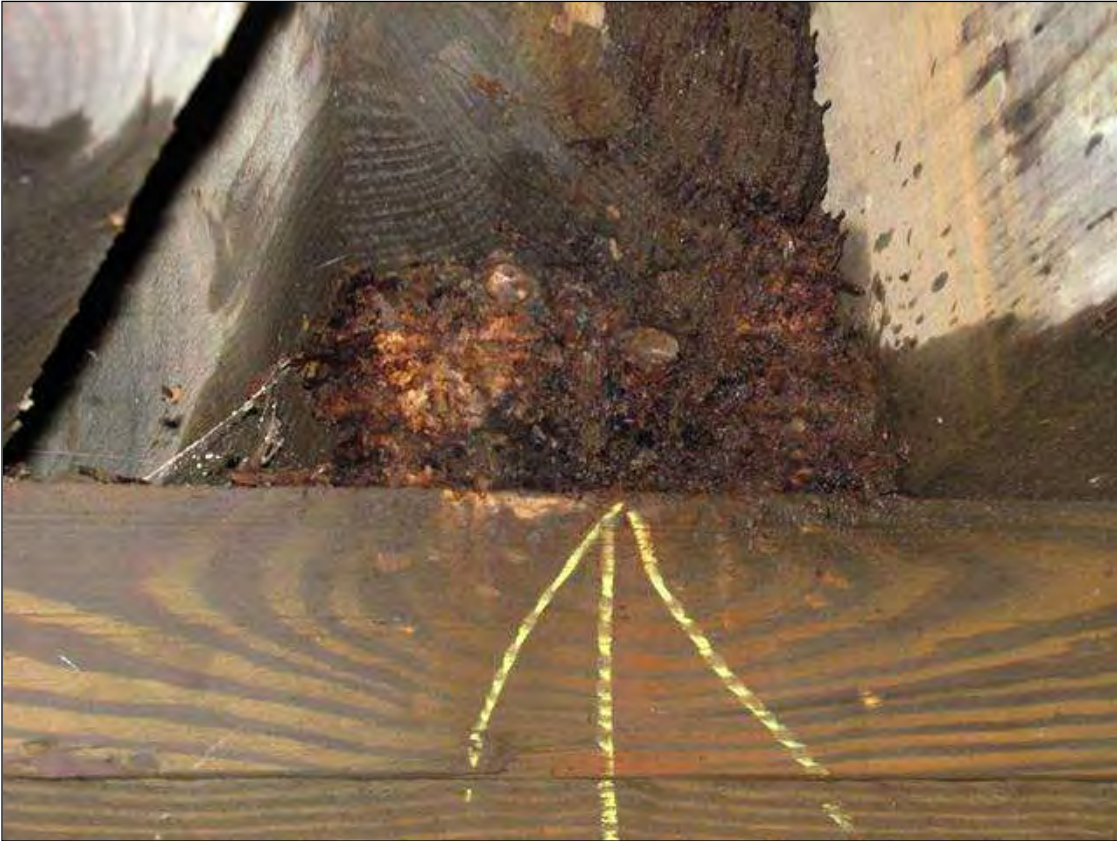
DECAY IN FACE OF CAP AT BENT 4 SPAN 5 SIDE BEHIND CROSSBRACE UNDER BAY 1



VERTICAL CRACKS IN CONCRETE ENCASEMENTS THROUGHOUT STRUCTURE



DECAY IN LEFT END OF CAP AT BENT 2



2 IN. HIGH X 1/2 IN. DEEP DECAY AT THE END OF JOIST 5 IN SPAN 3 OVER BENT 2



DECAY IN JOIST 19 IN SPAN 3 AT BENT 2 - PHOTO 1 OF 2 - PRIORITY MAINTENANCE ISSUED



DECAY IN JOIST 19 IN SPAN 3 AT BENT 2 - PHOTO 2 OF 2 - PRIORITY MAINTENANCE ISSUED



DECAY IN JOIST 19 IN SPAN 2 AT BENT 2 - PHOTO 1 OF 2 - PRIORITY MAINTENANCE ISSUED



DECAY IN JOIST 19 IN SPAN 2 AT BENT 2 - PHOTO 2 OF 2 - PRIORITY MAINTENANCE ISSUED



DECAY IN RIGHT END OF CAP AT BENT 1 PRIORITY MAINTENANCE ISSUED



DECAY IN RIGHT END OF CROWNSTRIP AT BENT 1



DECAY IN THE END OF JOIST 9 IN SPAN 2 AT BENT 1 - PRIORITY MAINTENANCE ISSUED

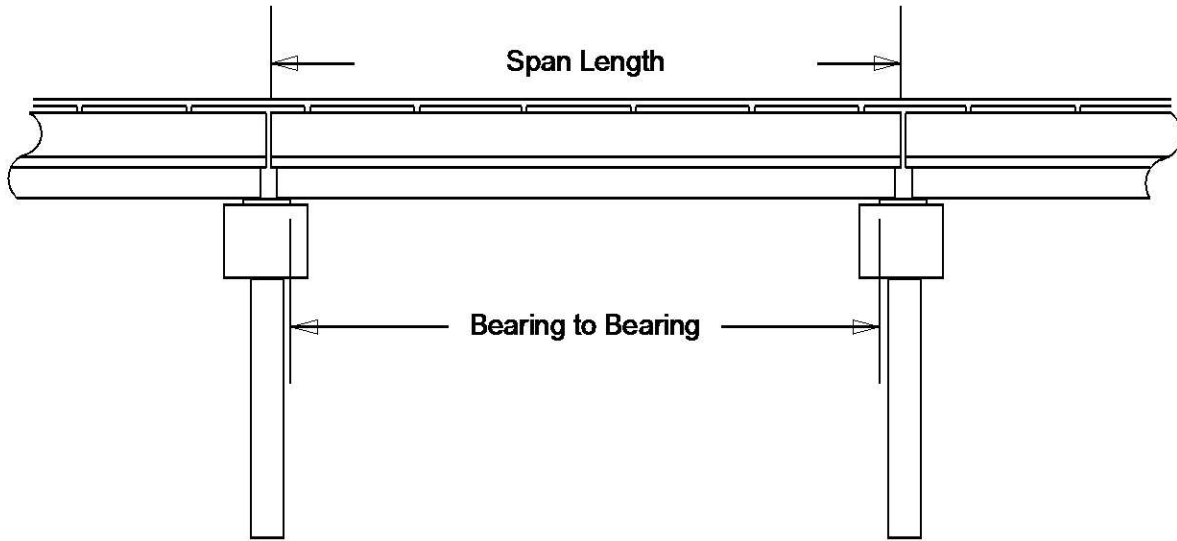


DECAY IN THE END AND BOTTOM OF JOIST 15 IN SPAN 2 AT BENT 1 - PRIORITY MAINTENANCE ISSUED

Structure Data Worksheet

Spans

County: JOHNSTON Structure No: 500216 Date: 10/08/2013 Inspected By: WCM



Span No	Span Length	Bearing to Bearing	Comments
1	17.583	16.833	
2	17	17	
3	17	17	
4	17	17	
5	17.583	16.833	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 500216 County: JOHNSTON Date: 10/08/2013 By: WCM

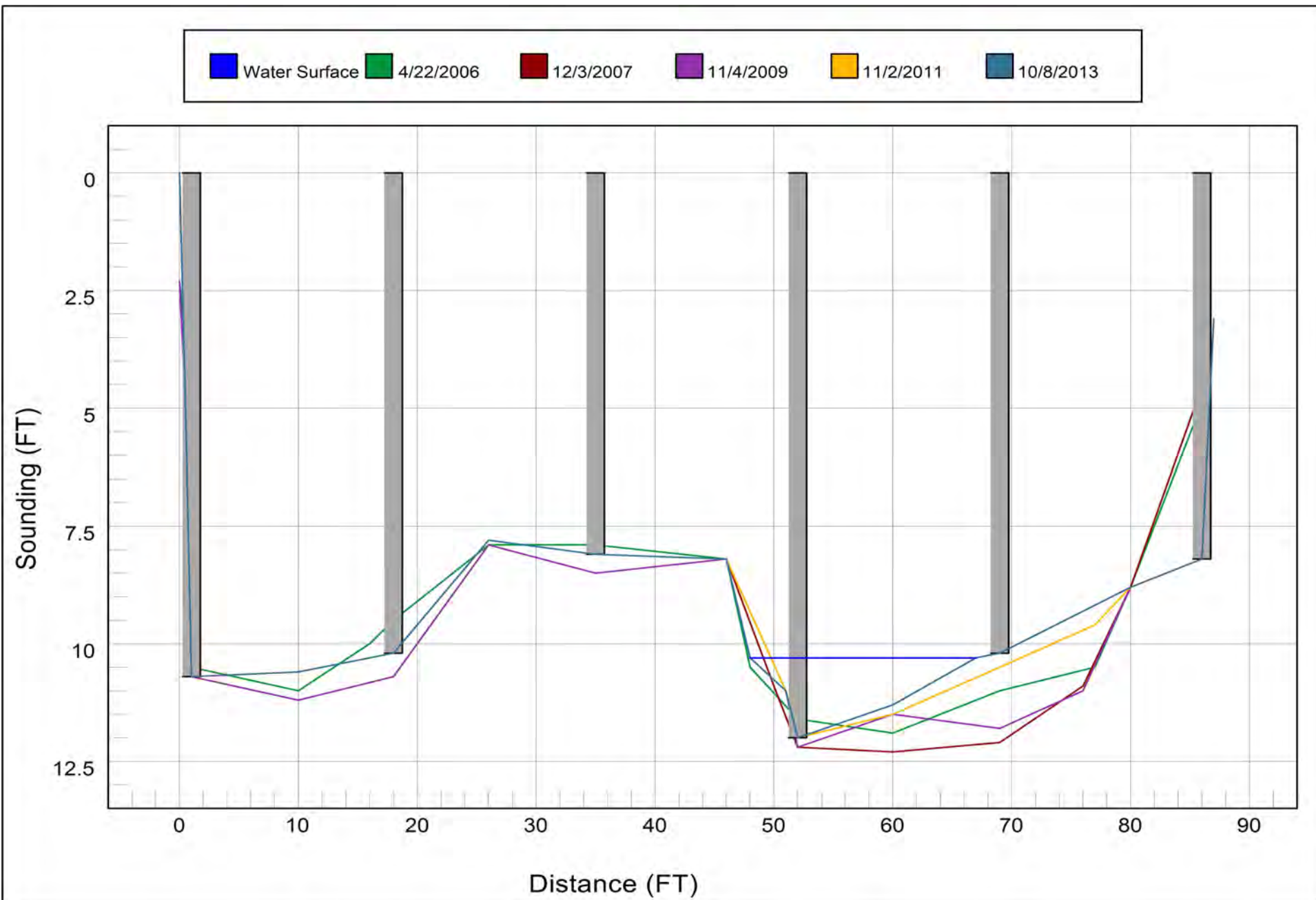
Record sounding from top of rail. Other location if needed: _____

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			
0.5	4.9	TOP OF CAP			
1.01	10.7	END BENT 1			
10	10.6				
18	10.2	BENT 1	18	11.6	BENT 1
26	7.8				
35	8.1	BENT 2	35	9.8	BENT 2
46	8.2				
48	10.3	Water Surface/Water Edge (WSWE)			
51	11				
52	12	BENT 3	52	12.3	BENT 3
60	11.3				
67	10.3	Water Surface/Water Edge (WSWE)			
69	10.2	BENT 4	69	12.2	BENT 4
80	8.8				
86	8.2	END BENT 2	86	4.9	Top of Cap
87	3.1	FILL FACE			

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



Roadway	20ft Wide	2 Paved Lanes	Looking East
Left Shoulder	6ft Wide		6ft Unpaved
Right Shoulder	6ft Wide		6ft Unpaved
Left Guardrail			
Right Guardrail			

CHECKED: 11/8/13 WCM

Title

Approach Roadway

Description

Looking East

Bridge No: 500216

Drawn By: CLS

Date: 04/20/2006

File Name: S0234000451

Bridge Inspection Field Sketch

Deck Width/Out to Out	25.33ft	Wearing Surface	0.2917ft
Between Rails	25.583ft	Median Width	
Curb Height	0.583ft	Median Height	
Top Rail to Deck/Wearing Surface	2.167ft	Left Guardrail Width	
Clear Roadway	24ft	Right Guardrail Width	
Left Bridge Rail	Type 14	Right Bridge Rail	Type 14

Measurements for Span #	2		
Deck Thickness	0.4167	Left Overhang	0.500
Top of Rail to Bottom of Beam	3.833	Right Overhang	0.459

Beam No	Beam Type	Spacing	Comments
1	Timber (Rectangular)	1.2917ft	Joists 6 in x 11 1/2 in
2	Timber (Rectangular)	1.4167ft	
3	Timber (Rectangular)	1.333ft	
4	Timber (Rectangular)	1.333ft	
5	Timber (Rectangular)	1.333ft	
6	Timber (Rectangular)	1.333ft	
7	Timber (Rectangular)	1.333ft	
8	Timber (Rectangular)	1.333ft	
9	Timber (Rectangular)	1.333ft	
10	Timber (Rectangular)	1.333ft	
11	Timber (Rectangular)	1.333ft	
12	Timber (Rectangular)	1.333ft	
13	Timber (Rectangular)	1.333ft	
14	Timber (Rectangular)	1.333ft	
15	Timber (Rectangular)	1.333ft	
16	Timber (Rectangular)	1.333ft	
17	Timber (Rectangular)	1.333ft	
18	Timber (Rectangular)	1.7083ft	
19	Timber (Rectangular)		

CHECKED: 11/8/13 WCM

Title

Typical Section

Description

19 Lines of Timber Joists

Bridge No: 500216

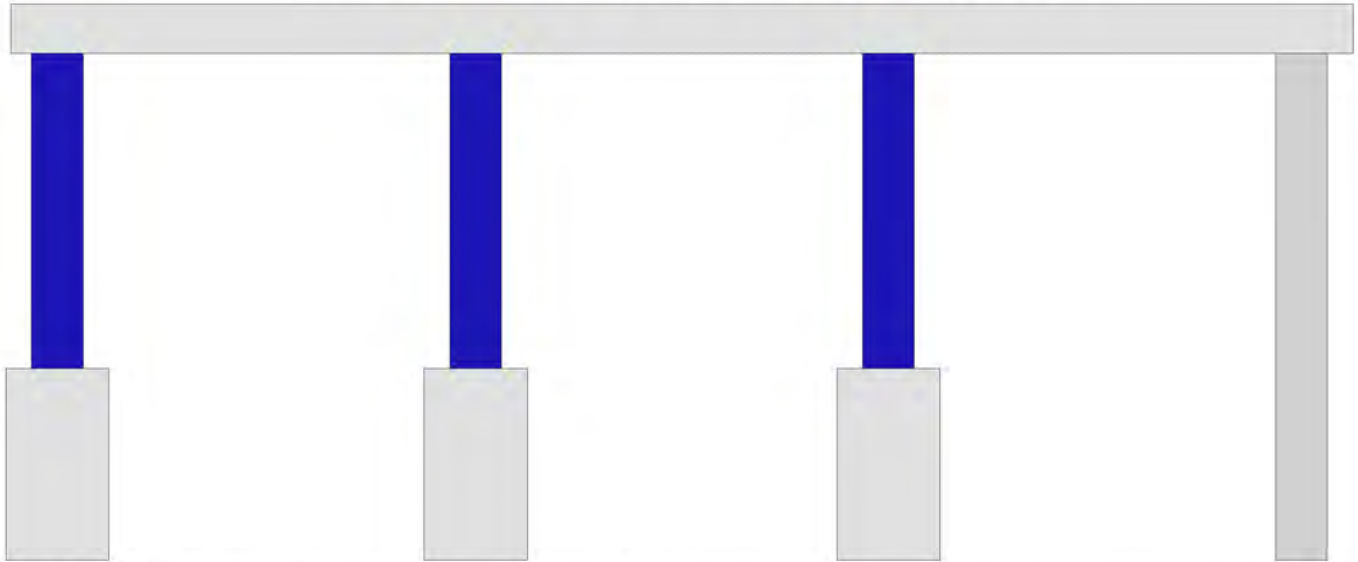
Drawn By: CLS

Date: 04/20/2006

File Name: S0234000452

[illegible]

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.				
26 ft.	1.021 ft.	0.958 ft.	1 ft.	1 ft.	0.792 ft.	0.792 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	8 ft.	1 ft.			Vertical	Yes	Yes	No	Yes
2	Timber	8 ft.	1 ft.			Vertical	Yes	Yes	No	Yes
3	Timber	8 ft.	1 ft.			Vertical	Yes	Yes	No	Yes
4	Timber		1 ft.			Vertical	Yes	No	No	No
Bent #:			1	Similar Bents:						

Title
BENT 1

CHECKED: 11/8/13 WCM

Description
BENT 1

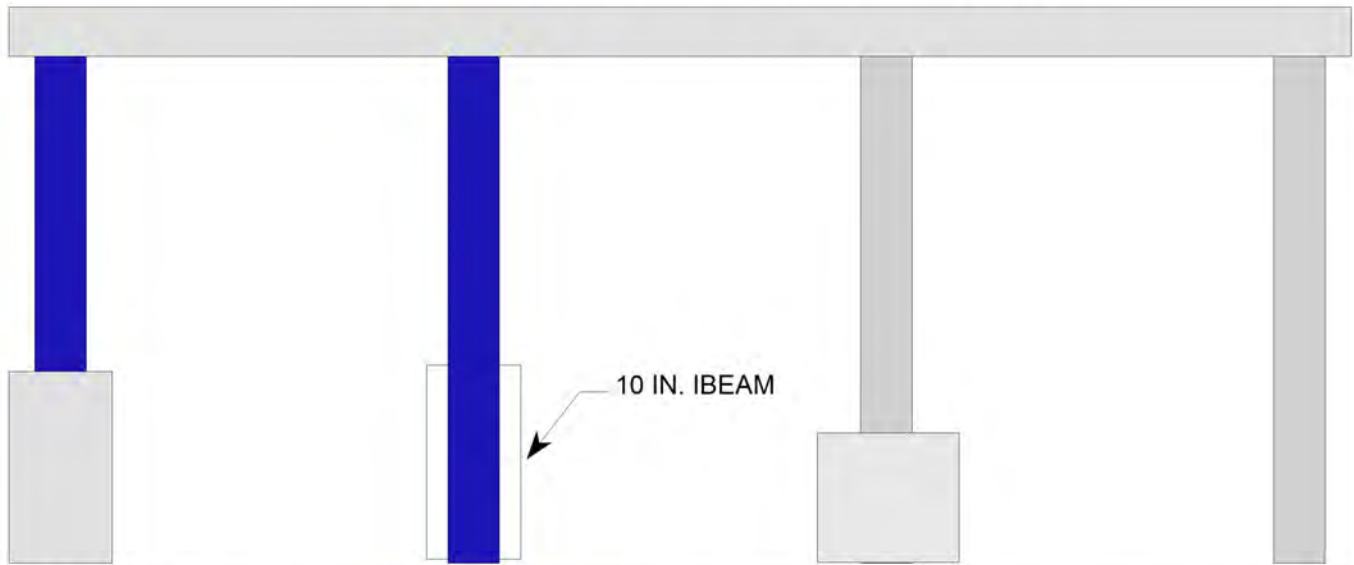
Bridge No: 500216

Drawn By: WCM

Date: 11/29/2007

File Name: S0014003417

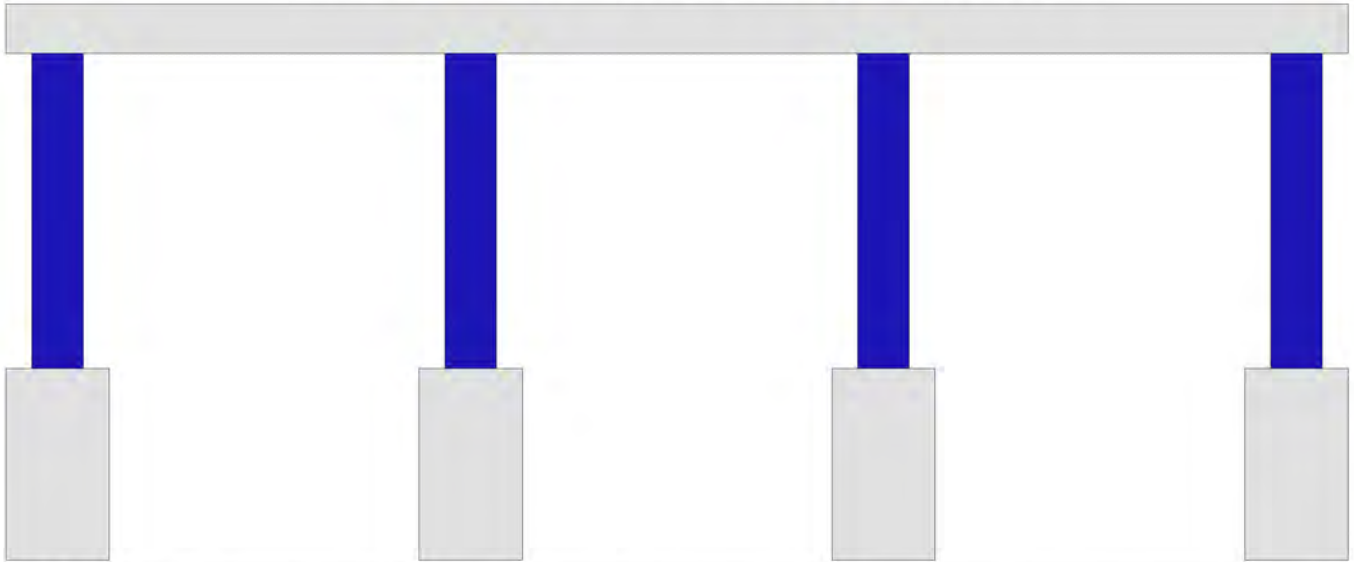
Bridge Inspection Field Sketch



Cap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
26.000 ft.	1.000 ft.	.958 ft.	1.000 ft.	1.000 ft.	.792 ft.	.792 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	8.0 ft.	1.0 ft.			Vertical	Yes	Yes	No	Yes
2	Timber	8.0 ft.	1.0 ft.			Vertical	Yes	Yes	No	No
3	Timber	8.0 ft.	1.0 ft.			Vertical	Yes	Yes	No	No
4	Timber		1.0 ft.			Vertical	Yes	No	No	No
Bent/Abutment #: 2			Similar Bents:							

Title BENT 2		CHECKED: 11/8/13 WCM		Description BENT 2	
Bridge No: 500216	Drawn By: WCM		Date: 11/29/2007	File Name: S0014003418	

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.				
26.000 ft.	1.000 ft.	.958 ft.	1.000 ft.	1.000 ft.	.792 ft.	.792 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	8.0 ft.	1.0 ft.			Vertical	Yes	Yes	No	Yes
2	Timber	8.0 ft.	1.0 ft.			Vertical	Yes	Yes	No	Yes
3	Timber	8.0 ft.	1.0 ft.			Vertical	Yes	Yes	No	Yes
4	Timber		1.0 ft.			Vertical	Yes	Yes	No	Yes
Bent/Abutment #: 3 Similar Bents:										

Title
BENT 3

CHECKED: 11/8/13 WCM

Description
BENT 3

Bridge No: 500216

Drawn By: WCM

Date: 11/29/2007

File Name:S0014003419

Bridge Inspection Field Sketch										
Cap Information			Material Timber							
Length 26.000 ft.	Width 1.000 ft.	Height .958 ft.	Left Overhang 1.000 ft.	Right Overhang 1.000 ft.	Left Beam to End of Cap. .792 ft.	Right Beam to End of Cap. .792 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	8.0 ft.	1.0 ft.			Vertical	Yes	Yes	No	Yes
2	Timber	8.0 ft.	1.0 ft.			Vertical	Yes	Yes	No	No
3	Timber	8.0 ft.	1.0 ft.			Vertical	Yes	No	No	Yes
4	Timber		1.0 ft.			Vertical	Yes	Yes	No	Yes
Bent/Abutment #: 5 Similar Bents:										
Title BENT 4					Description BENT 4					
Bridge No: 500216		Drawn By: WCM			Date: 11/29/2007			File Name: S0014003421		

Bridge Inspection Field Sketch										
Cap Information				Material Timber						
Length 26.000 ft.	Width 1.000 ft.	Height .958 ft.	Left Overhang 1.000 ft.	Right Overhang 1.000 ft.	Left Beam to End of Cap.		Right Beam to End of Cap.			
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	8.0 ft.	1.0 ft.			Vertical	Yes	Yes	No	Yes
2	Timber	8.0 ft.	1.0 ft.			Vertical	Yes	Yes	No	Yes
3	Timber	8.0 ft.	1.0 ft.			Vertical	Yes	Yes	No	Yes
4	Timber		1.0 ft.			Vertical	Yes	Yes	No	Yes
Bent/Abutment #: 2			Similar Bents:							
Title END BENT 2					Description END BENT 2					
Bridge No: 500216		Drawn By: WCM			Date: 11/29/2007			File Name: S0014003422		

Bridge Inspection Field Sketch

DRAWING DELETED

Title

DELETED DRAWING

Description

DRAWING DELETED

Bridge No: 500216

Drawn By: WCM

Date: 11/4/2009

File Name: S0014003420



WEST PROFILE



EAST PROFILE



LOOKING EAST DOWNSTREAM



LOOKING WEST UPSTREAM



LOOKING NORTH



APPROACH 1



WEIGHT POSTING



JOINT AT END BENT 1



SPAN 1 OVERVIEW



SPAN 2 OVERVIEW



APPROACH 2



LOOKING SOUTH



RIGHT SIDE WINGWALL AT END BENT 1 REPLACED - LEFT SIDE WINGWALL SIMILAR



END BENT 1 OVERVIEW



BENT 1 SPAN 1 SIDE - OTHER BENTS SIMILAR



SUPERSTRUCTURE OVER END OF CAP AT BENT 1 - OTHER BENTS SIMILAR



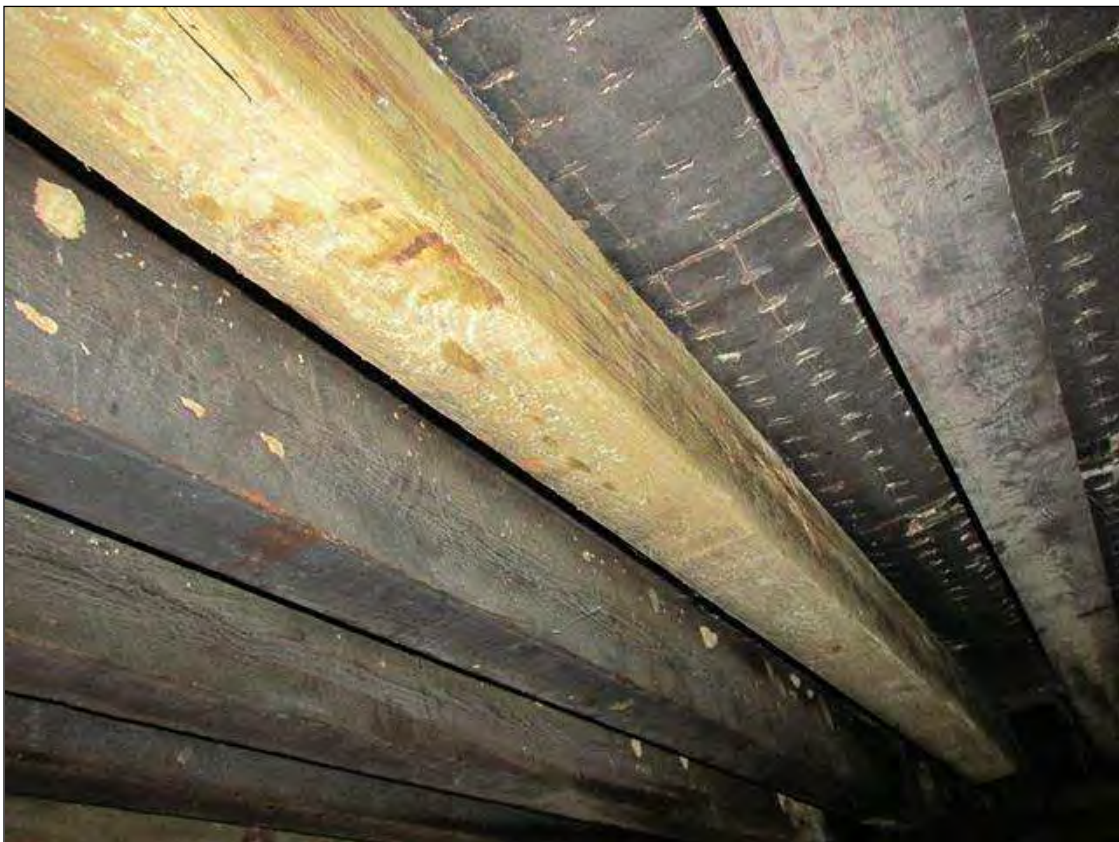
END BENT 2 OVERVIEW



JOISTS 1, 3 AND 4 IN SPAN 5 HAVE BEEN REPLACED SINCE LAST INSPECTION



PILE 2 AT BENT 2 SPLICED WITH I-BEAMS



JOIST 5 IN SPAN 1 HAS BEEN REPLACED SINCE LAST INSPECTION - JOISTS 11 AND 15 SIMILAR