



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 BRIDGE MANAGEMENT UNIT

ATTENTION

PRIORITY MAINT. SUBMITTED.

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY SAMPSON BRIDGE NUMBER 810060 INSPECTION CYCLE 2 YRS
 ROUTE SR1007 ACROSS BRANCH BLACK CREEK M.P. 0

LOCATION 1.6MI.W.JCT.SR1100

SUPERSTRUCTURE RC FLOOR ON TIM.JOIST;BMD-10

SUBSTRUCTURE E.BTS&INT.BT:TIMBER CAP/TIMBER PILES @ VAR.CTS.

SPANS 1@17'10,1@17'9

LONGITUDE 78° 14' 56.8"

LATITUDE 34° 40' 27.9"

PRESENT CONDITION FAIR

INVENTORY RATING _____

INSPECTION DATE 08/02/2010

OPERATING RATING _____

PRESENT POSTING SV 18 TTST 23

PROPOSED POSTING _____

COMPUTER UPDATE _____

ANALYSIS DATE _____

POSTING LETTER DATE _____

SUFFICIENCY RATING _____

OTHER SIGNS PRESENT 2 WEIGHT LIMITS, 4 DELINEATORS



LOOKING EAST

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: 09/14/2010

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE 810060
 (8) STRUCTURE NUMBER(FEDERAL) 000000001630060
 INVENTORY ROUTE (ON/UNDER) - ON 131010070
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 3
 (3) COUNTY CODE 163 (4) PLACE CODE 00000
 (6) FEATURE INTERSECTED - BRANCH BLACK CREEK
 (7) FACILITY CARRIED SR1007
 (9) LOCATION 1.6MI.W.JCT.SR1100
 (11)MILEPOINT 0
 (16)LAT 34° 40' 27.9" (17)LONG 78° 14' 56.8"
 (98)BORDER BRIDGE STATE CODE PCT SHARE
 (99)BORDER BRIDGE STRUCTURE NO

SUFFICIENCY RATING = 36.6
 STATUS = Structurally Deficient

CLASSIFICATION **CODE**

(112)NBIS BRIDGE SYSTEM - YES
 (104)HIGHWAY SYSTEM NON NHS Route 0
 (26) FUNCTIONAL CLASS - Local 09
 (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 - Not Temporary
 (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

(43) STRUCTURE TYPE MAIN: Wood or Timber
 TYPE - Stringer Mutlibeam or Girder CODE 702
 (44) STRUCTURE TYPE APPR :
 TYPE - CODE
 (45) NUMBER OF SPANS IN MAIN UNIT 2
 (46) NUMBER OF APPROACH SPANS
 (107)DECK STRUCTURE TYPE - Concrete cast-in-place CODE 1
 (108)WEARING SURFACE / PROTECTIVE SYSTEM :
 (A) TYPE OF WEARING SURFACE - Concrete CODE 1
 (B) TYPE OF MEMBRANE - None CODE 0
 (C) TYPE OF DECK PROTECTION - None CODE 0

CONDITION **CODE**

(58) DECK 5
 (59) SUPERSTRUCTURE 5
 (60) SUBSTRUCTURE 5
 (61) CHANNEL & CHANNEL PROTECTION 6
 (62) CULVERTS N

LOAD RATING AND POSTING **CODE**

(31) DESIGN LOAD Other or Unknown 0
 (64) OPERATING RATING - HS-16 228
 (66) INVENTORY RATING - HS-6 211
 (70) BRIDGE POSTING - Posting Required 0
 (41) STRUCTURE OPEN, POSTED ,OR CLOSED P
 DESCRIPTION - Posted for Load

AGE AND SERVICE

(27) YEAR BUILT 1951
 (106)YEAR RECONSTRUCTED
 (42) TYPE OF SERVICE : ON - Highway
 UNDER - Waterway CODE 15
 (28) LANES: ON STRUCTURE 2 UNDER STRUCTURE
 (29) AVERAGE DAILY TRAFFIC 600
 (30) YEAR OF ADT 2007 (109) TRUCK ADT PCT 6 %
 (19) BYPASS OR DETOUR LENGTH 10 MI

APPRAISAL **CODE**

(67) STRUCTURAL EVALUATION 2
 (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 U
 SCOUR PLAN OF ACTION

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 18 FT
 (49) STRUCTURE LENGTH 36 FT
 (50)CURB OR SIDEWALK: LEFT 0.8 FT RIGHT 0.8 FT
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 23.9 FT
 (52) DECK WIDTH OUT TO OUT 25.3 FT
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 18.0 FT
 (33) BRIDGE MEDIAN - No Median CODE 0
 (34) SKEW 0° (35) STRUCTURE FLARED NO
 (10) INVENTORY ROUTE MIN VERT CLEAR 99 FT 99 IN
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 23.9 FT
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 99 FT 99 IN
 (54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad
 (55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad 99.9 FT
 (56) MIN LAT UNDERCLEAR LT REF - 0.0 FT

PROPOSED IMPROVEMENTS

(75) TYPE OF WORK - CODE 311
 (76) LENGTH OF STRUCTURE IMPROVEMENT 61 FT
 (94) BRIDGE IMPROVEMENT COST \$131,000
 (95) ROADWAY IMPROVEMENT COST \$33,000
 (96) TOTAL PROJECT COST \$197,000
 (97) YEAR OF IMPROVEMENT COST ESTIMATE 2007
 (114)FUTURE ADT 1200 (115) YEAR FUTURE ADT 2025

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

INSPECTIONS

(90) INSPECTION DATE 08/02/2010
 (92) CRITICAL FEATURE INSPECTION : (93) CFI DATE
 A) FRACTURE CRIT DETAIL - NO A)
 B) UNDERWATER INSP - NO B)
 C) OTHER SPECIAL INSP NO C)
 SCOUR

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection
 BRIDGE NO. 810060 COUNTY SAMPSON ROUTE SR1007 OVER BRANCH BLACK CREEK
 STRUCTURE TYPE RC FLOOR ON TIM.JOIST;BMD-10
 ROUTE ORIENTATION W - E SPANS 1@17'10,1@17'9

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

INSPECTION ITEM				ITEM 61			
DECK ITEMS			GRADES				
1. WEARING SURFACE			6	45. CHANNEL & CHANNEL PROT.	a. WATERWAY	8	
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58					b. ALIGNMENT	6	
a. CONCRETE	3	5	c. SCOUR		7		
b. TIMBER			d. SLOPE PROT., RIP-RAP, DIKES, ETC.				
3. RAILING			6	50. APPROACH ROADWAY CONDITION			6
a. CONCRETE				51. APPROACH SLABS			
b. TIMBER				52. PAINT SYSTEM CODE			
c. ALUMINUM				53. UTILITIES			
d. STEEL				54. RESPONSE TO LIVE LOAD			7
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			6	55. ESTIMATED REMAINING LIFE			7
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)			14
c. COMPRESSION SEAL				64. TOTAL SNOOPER INSP. TIME (HRS)			
d. STANDARD JOINTS	2	8		65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)			
e. OPEN JOINTS							
7. DECK DEBRIS (INCLUDES EXCESS SAND/GRAVEL)			6				
				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	6	
13. END DIAP'S, CURTAIN WALLS, & CONN'S			7				
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)			7	b. APPR. RDWY. ALIGNMENT			8
17. MOVABLE SPAN MACHINERY							
				72. FIELD SCOUR EVALUATION			
				O			
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)							
35. TIM SUB STR.				USE OF INSP. ACCESSIBILITY EQUIPMENT			
a. ABUT. & INT. BENT CAPS & RISERS	6			SNOOPER (CODE S, 4, OR N)	HRS	NO	
b. PILES, POST, SILLS, & BRACING	5			LADDER			NO
c. BULKHEADS, WING'S, & TIE BACKS	6			BUCKET TRUCK			NO
36. CONC SUB STR.				BOAT			YES
a. ABUT. & INT. BENT CAPS				OTHER			NO
b. ABUT. & BENT COL'S BREASTWALLS							
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:			
41. DRIFT			8	81. REVIEWED BY: <i>Erin Cook</i>			

Bridge I&A Form 1(82)H		FIELD INSPECTION REPORT <u>Bridge Inspection & Analysis</u>	
State of North Carolina Dept. of Transportation Division of Highways			
Team Leader BRYAN CROOM			
Assisted By RGM			
Item No.	Grade		
1	6	LONGITUDINAL CRACKING/TRANSVERSE CRACKING IN ASPHALT WEARING SURFACE IN SPAN 1 EAST BOUND LANE. TRANSVERSE CRACKING IN ASPHALT WEARING SURFACE OVER END BENT 1.	
2a	5	THE TOP OF DECK IS NOT VISIBLE DUE TO THE WEARING SURFACE.	
3a	6	RAILS WEATHERED WITH EXPOSED AGGREGATE.	
4	6	CRACKING ALONG CURBS. CURBS WEATHERED WITH EXPOSED AGGREGATE.	
6d	8	THE WEARING SURFACE OVER BENT 1 JOINT HAS BEEN SEALED.	
7	6	SCATTERED GROWTH AND DEBRIS ALONG NORTH AND SOUTH CURBS.	
11	5	LONGITUDINAL CRACKING ALONG JOIST UP TO 1/8" WIDE.	
35a	6	<p>TIMBER CAPS 4 END BENT 2 SUBCAP AT SOUTH END DECAYED 5" WIDE X 5" HIGH X 6" DEEP. NORTH END OF END BENT 2 SUBCAP DECAYED 4" HIGH X 2" WIDE X 6" DEEP. (A PRIORITY MAINT. SUBMITTED FOR THIS CONDITION)(SEE SKETCH)</p> <p>REMAINING TIMBER CAPS 5 BENT 1 CAP AND CROWNSTRIP REPLACED WITH CCA MATERIAL. END BENT 1 CAP AND CROWNSTRIP REPLACED WITH CCA MATERIAL, 11-3/4" WIDE X 11-5/8" HIGH. END BENT 1 SUBCAP AT PILE 3 REPLACED WITH CCA MATERIAL, 11-3/4" WIDE X 9-5/8" HIGH. END BENT 1 SUBCAP ROLLED BACK 1/2" AT PILE 3. STEEL STRAP BOLTED TO CAP AND PILES AT END BENT 1. BENT 1 SUBCAP AT PILE 2 REPLACED WITH CCA MATERIAL, 11-3/4" WIDE X 9-3/4" HIGH. NORTH END OF END BENT 2 CAP DECAYED 8" LONG X 4" HIGH X 3" WIDE. NORTH END OF END BENT 2 CROWNSTRIP DECAYED 9" LONG X 2" HIGH X 2" WIDE. END BENT 2 CAP ROLLED BACK AT PILES 2, 3 AND 4 APPROX. 2" TO 3". END BENT 2 CAP DECAYED 9" LONG X 4" WIDE X 6" HIGH OVER PILE 3.</p>	

Bridge I&A Form 1(82)H		FIELD INSPECTION REPORT <u>Bridge Inspection & Analysis</u>	
State of North Carolina Dept. of Transportation Division of Highways			
Team Leader BRYAN CROOM			
Assisted By RGM			
Item No.	Grade		
35b	5	TIMBER PILES 4 PILE 3 AT END BENT 2 PUSHED OUT 2.5". 3/4" CABLE IN PLACE TO PREVENT FURTHER MOVEMENT. PILE 2 AT END BENT 2 PUSHED OUT 1/2". THESE PILES ARE PUSHED OUT DUE TO BULKHEAD PRESSURE. (A PRIORITY MAINT. SUBMITTED FOR THIS CONDITION) (SEE SKETCH)	
35c	6	REMAINING TIMBER PILES 5 LONGITUDINAL CRACKING ALONG PILES UP TO 1/8" WIDE. END BENT 1 BULKHEAD PUSHED OUT 1 3/4" BETWEEN PILES 2, 3 AND 4. END BENT 1 LOWER BULKHEAD BOARDS DECAYED AT PILES 2 AND 3. TOP 5 BULKHEAD BOARDS REPLACED WITH CCA MATERIAL AT END BENT 1 SIMILAR AT END BENT 2. VERTICAL SHEET PILE BOARDS IN PLACE AT END BENT 1 BETWEEN PILES 1 AND 2. END BENT 2 BULKHEAD BOARDS PUSHED OUT UP TO 2". END BENT 2 BULKHEAD AT PILE 2 DECAYED AREA. WINGWALL BOARDS REPLACED WITH CCA MATERIAL.	
45b	6	THE STREAM ENTERS ALONG THE NORTHWEST WINGWALL.	
50	6	WEST APPROACH ASPHALT WEARING SURFACE SETTLED 1/2". TRANSVERSE CRACKING IN ASPHALT WEARING SURFACE OVER END BENT 1. EAST APPROACH ASPHALT WEARING SURFACE SETTLED 1/2".	
62	YES	SV 18 TTST 23	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 810060

County SAMPSON

Date: 08/02/2010

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	2	WEST AND EAST APPROACH ASPHALT WEARING SURFACE SETTLED 1/2".	
3344	Repair / Replace Timber Substructure Components	LF	6	END BENT 2 SUBCAP AT SOUTH END DECAYED 5" WIDE X 5" HIGH X 6" DEEP. NORTH END OF END BENT 2 SUBCAP DECAYED 4" HIGH X 2" WIDE X 6" DEEP.	
3344	Repair / Replace Timber Substructure Components	LF	10	PILE 2 AT END BENT 2 PUSHED OUT 1/2" DUE TO BULKHEAD PRESSURE.	
3344	Repair / Replace Timber Substructure Components	LF	10	PILE 3 AT END BENT 2 PUSHED OUT 2.5", 3/4" CABLE IN PLACE TO PREVENT FURTHER MOVEMENT. THE PILE APPEARS TO HAVE PUSHED OUT SINCE THE CABLE WAS INSTALLED.	
3344	Repair / Replace Timber Substructure Components	LF	25	NORTH END OF END BENT 2 CAP DECAYED 8" LONG X 4" HIGH X 3" WIDE. NORTH END OF END BENT 2 CROWNSTRIP DECAYED 9" LONG X 2" HIGH X 2" WIDE. END BENT 2 CAP DECAYED 9" LONG X 4" WIDE X 6" HIGH OVER PILE 3.	
3346	Repair / Maintain Timber Wings & Blkhd	SF	170	END BENT 1 BULKHEAD PUSHED OUT 1 3/4" BETWEEN PILES 2, 3 AND 4. END BENT 1 LOWER BULKHEAD BOARDS DECAYED AT PILES 2 AND 3. END BENT 2 BULKHEAD BOARDS PUSHED OUT UP TO 2". END BENT 2 BULKHEAD AT PILE 2 DECAYED AREA.	
3376	Clean/Wash Bridge Decks	SF	75	SCATTERED GROWTH AND DEBRIS ALONG NORTH AND SOUTH CURBS.	

Key

Priority Maintenance Item

Critical Finding Item

Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 810060

County SAMPSON

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	10 LF
Location:		
Abutment Substructure Bent/Span No. 2 PILE 2 AT END BENT 2.		
Priority Level		Status
Recommended		Routine Maintenance
Submitted Date:	Submitted By:	Assisted By:
08/03/2010	BRYAN CROOM	RICHARD MURRAY
Details		
PILE 2 AT END BENT 2 PUSHED OUT 1/2" DUE TO BULKHEAD PRESSURE.		

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	10 LF
Location:		
Abutment Substructure Bent/Span No. 2 PILE 3 AT END BENT 2.		
Priority Level		Status
Recommended		Routine Maintenance
Submitted Date:	Submitted By:	Assisted By:
08/03/2010	BRYAN CROOM	RICHARD MURRAY
Details		
PILE 3 AT END BENT 2 PUSHED OUT 2.5", 3/4" CABLE IN PLACE TO PREVENT FURTHER MOVEMENT. THE PILE APPEARS TO HAVE PUSHED OUT SINCE THE CABLE WAS INSTALLED.		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 810060 County SAMPSON

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	6 LF
Location:		
Abutment Substructure	Bent/Span No. 2	END BENT 2 SUBCAP.
Priority Level	Status	
Recommended	Routine Maintenance	
Submitted Date:	Submitted By:	Assisted By:
08/03/2010	BRYAN CROOM	RICHARD MURRAY
Details		
END BENT 2 SUBCAP AT SOUTH END DECAYED 5" WIDE X 5" HIGH X 6" DEEP. NORTH END OF END BENT 2 SUBCAP DECAYED 4" HIGH X 2" WIDE X 6" DEEP.		



LONGITUDINAL CRACKING ALONG PILES UP TO 1/8" WIDE



BENT 1 CAP AND CROWNSTRIP REPLACED WITH CCA MATERIAL 12" WIDE X 11 5/8" HIGH.



LONGITUDINAL CRACKING ALONG JOIST UP TO 1/8" WIDE



END BENT 1 CAP AND CROWNSTRIIP REPLACED WITH CCA MATERIAL 11 3/4" WIDE X 11 5/8" HIGH.



END BENT 1 BULKHEAD PUSHED OUT 1 3/4" BETWEEN PILES 2,3 AND 4



NEW SUBCAP AT END BENT 1 PILE 3 , 11 3/4" WIDE X 9 5/8" HIGH.



END BENT 1 SUBCAP ROLLED BACK 1/2" AT PILE 3



STEEL STRAP BOLTED TO CAP AND PILES AT END BENT 1



END BENT 1 LOWER BULKHEAD BOARDS DECAYED AT PILES 2 AND 3



TOP 5 BULKHEAD BOARDS REPLACED WITH CCA MATERIAL AT END BENT 1 SIMILAR AT END BENT 2



VERTICAL SHEET PILE BOARDS IN PLACE AT END BENT 1 BETWEEN PILES 1 AND 2



BENT 1 SUBCAP AT PILE 2 REPLACED WITH CCA MATERIAL 11 3/4" WIDE X 9 3/4" HIGH.



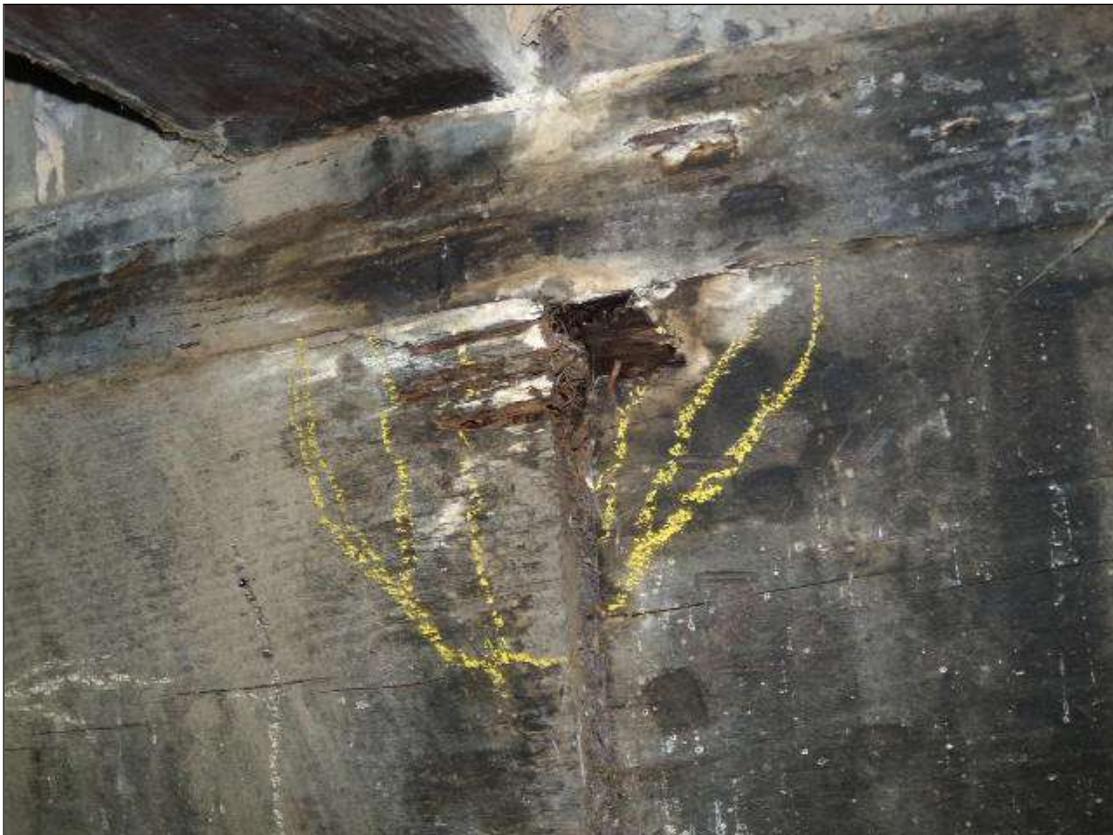
END BENT 2 SUBCAP AT SOUTH END DECAYED 5" WIDE X 5" HIGH X 6" DEEP (PRIORITY MAINT.)



PILE 3 AT END BENT 2 PUSHED OUT 2.5", 3/4" CABLE IN PLACE TO PREVENT FURTHER MOVEMENT (PRIORITY MAINT.)



END BENT 2 BULKHEAD BOARDS PUSHED OUT UP TO 2"



END BENT 2 CAP DECAYED 9" LONG X 4" WIDE X 6" HIGH OVER PILE 3.



NORTH END OF END BENT 2 SUBCAP DECAYED 4" HIGH X 2" WIDE X 6" DEEP.(PRIORITY MAINTENANCE)



NORTH END OF END BENT 2 CAP DECAYED 8" LONG X 4" HIGH X 3" WIDE



NORTH END OF END BENT 2 CROWNSTRIP DECAYED 9" LONG X 2" HIGH X 2" WIDE.



END BENT 2 BULKHEAD AT PILE 2 DECAYED AREA



PILE 2 AT END BENT 2 PUSHED OUT 1/2" DUE TO BULKHEAD PRESSURE (PRIORITY MAINT.)



END BENT 2 CAP ROLLED BACK AT PILES 2, 3 AND 4 APPROX. 2" TO 3".



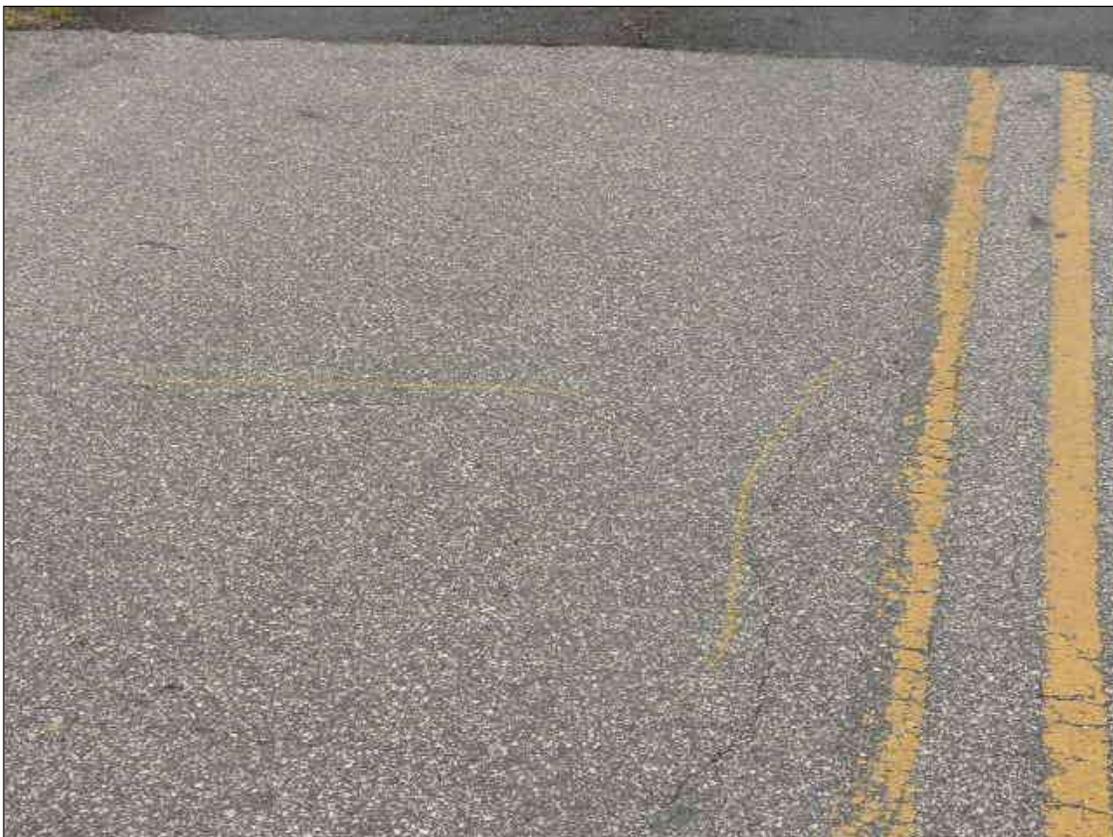
WINGWALL BOARDS REPLACED WITH CCA MATERIAL



WEST APPROACH ASPHALT WEARING SURFACE SETTLED 1/2"



TRANSVERSE CRACKING IN ASPHALT WEARING SURFACE OVER END BENT 1



LONGITUDINAL CRACKING/TRANSVERSE CRACKING IN ASPHALT WEARING SURFACE IN SPAN 1 EAST BOUND LANE



EAST APPROACH ASPHALT WEARING SURFACE SETTLED 1/2"



CRACKING ALONG CURBS



RAILS WEATHERED WITH EXPOSED AGGREGATE



CURBS WEATHERED WITH EXPOSED AGGREGATE



SCATTERED GROWTH AND DEBRIS ALONG NORTH CURB



SCATTERED GROWTH AND DEBRIS ALONG SOUTH CURB

BRIDGE MANAGEMENT UNIT
DATA ON EXISTING STRUCTURE Run Date: 09/14/2010

COUNTY : SAMPSON DIV : 3 DIST : 2 STRUCTURE NUMBER : 810060 LENGTH : 36 FEET

ROUTE CARRIED : SR1007 FEATURE INTERSECTED : BRANCH BLACK CREEK

LOCATED : 1.6MI.W.JCT.SR1100 BRIDGE NAME : CITY :

FUNC. CLASS : 09 SYST.ON : NFA SYST.UNDER : NFA ADT & YR : 600 2007 RAIL TYPE : LT 241 RT 241

BUILT : 1951 BY : BMU PROJ : FED.AID PROJ : DESIGN LOAD : Other or Unknown

REHAB : BY : PROJ : ALIGNMENT : SKEW : 90 LANES : ON 2 UNDER

NAVIGATION : HT. CRN. TO BED : WATER DEPTH :
VC 0.0 FT HC 0.0 FT 9 FT 1 FT

SUPERSTRUCTURE : RC FLOOR ON TIM.JOIST;BMD-10

SUBSTRUCTURE : E.BTS&INT.BT:TIMBER CAP/TIMBER PILES @ VAR.CTS.

SPANS : 1@17'10,1@17'9

BEAMS OR GIRDERS : 19 LINES 6X14 TIM.JOIST @ VAR CENTERS

FLOOR : 5 RC/2 AWS ENCROACHMENT : DECK (OUT TO OUT) : 25.3 FT

CLEAR ROADWAY : 23.9 FT BETWEEN RAILS : 25.5 FT SIDEWALK OR CURB : LT 0.8 FT RT 0.8 FT

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

INV.RTG. : HS-6 OPE.RTG. : HS-16 CONTR.MEMBER : Timber Pile POSTED : SV 18 TTST 23 DATE 05/01/2007

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

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

REMARKS :

Structure Data Worksheet

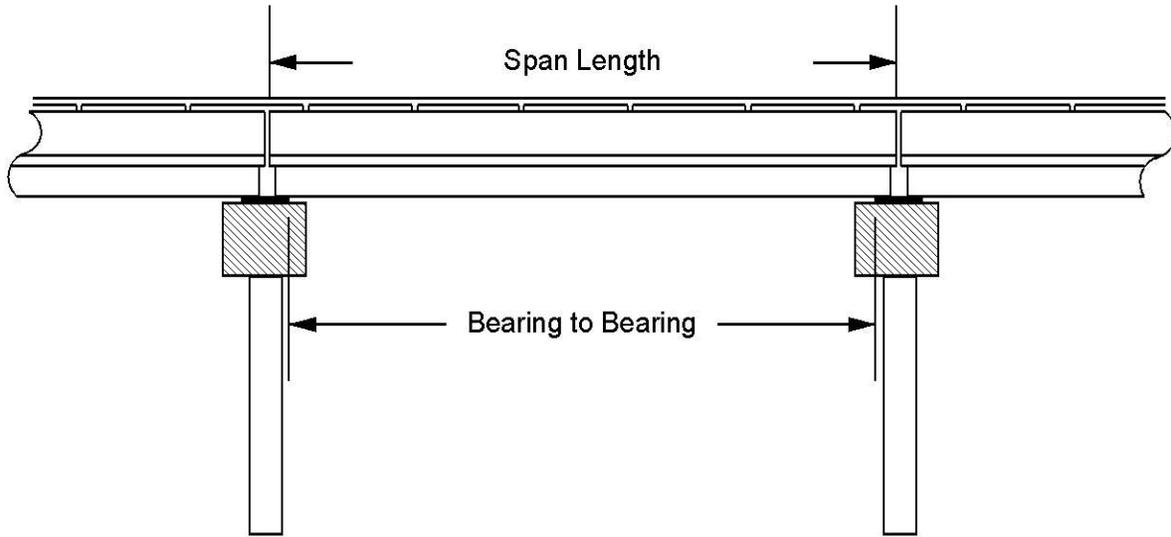
Spans

County: SAMPSON

Structure No: 810060

Date: 08/02/2010

Inspected By: BC



Span No	Span Length	Bearing to Bearing	Comments
1	17.833	17.083	
2	17.75	17	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 810060 County: SAMPSON Date: 08/02/2010 By: BC

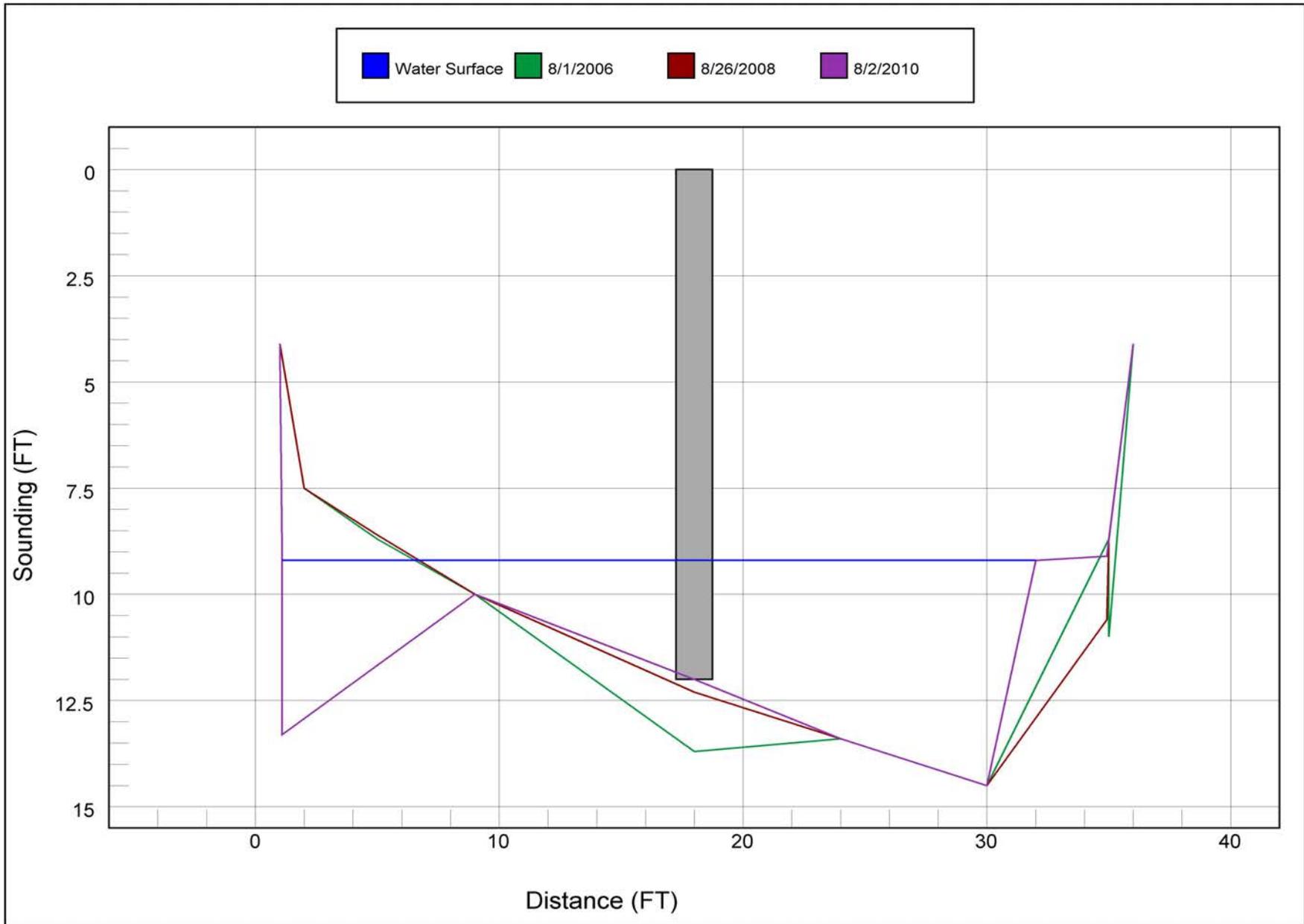
Record sounding from top of rail. Other location if needed: _____

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
1	4.1	TOP OF CAP			
1.1	9.2	WEWS			
1.1	13.3				
9	10				
18	12	BENT 1	18	12	BENT 1
24	13.4				
30	14.5				
32	9.2	WEWS			
34.917	9.1				
36	4.1	TOP OF CAP			

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



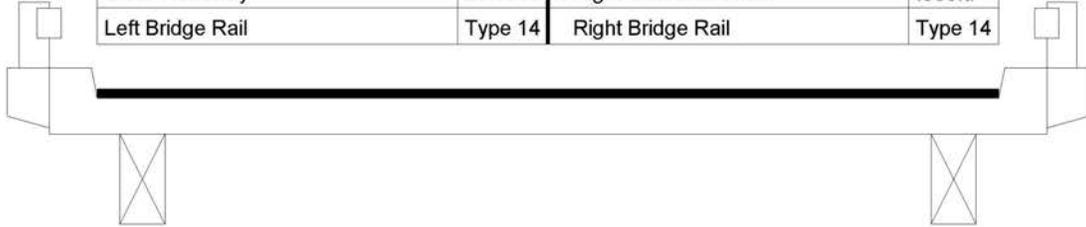
Roadway	18ft Wide	2 Paved Lanes	Looking North
Left Shoulder	4ft Wide		4ft Unpaved
Right Shoulder	4ft Wide		4ft Unpaved
Left Guardrail			
Right Guardrail			

MEASUREMENTS VERIFIED BY RGM ON 8-2-10

Title		Description	
Approach Roadway		Looking East	
Bridge No: 810060	Drawn By: CLS	Date: 08/26/2008	File Name: S0234000646

Bridge Inspection Field Sketch

Deck Width/Out to Out	25.327ft	Wearing Surface	0.1667ft
Between Rails	25.54167ft	Median Width	
Curb Height	0.625ft	Median Height	
Top Rail to Deck/Wearing Surface	2.667ft	Left Guardrail Width	.833ft.
Clear Roadway	23.95833ft	Right Guardrail Width	.833ft.
Left Bridge Rail	Type 14	Right Bridge Rail	Type 14



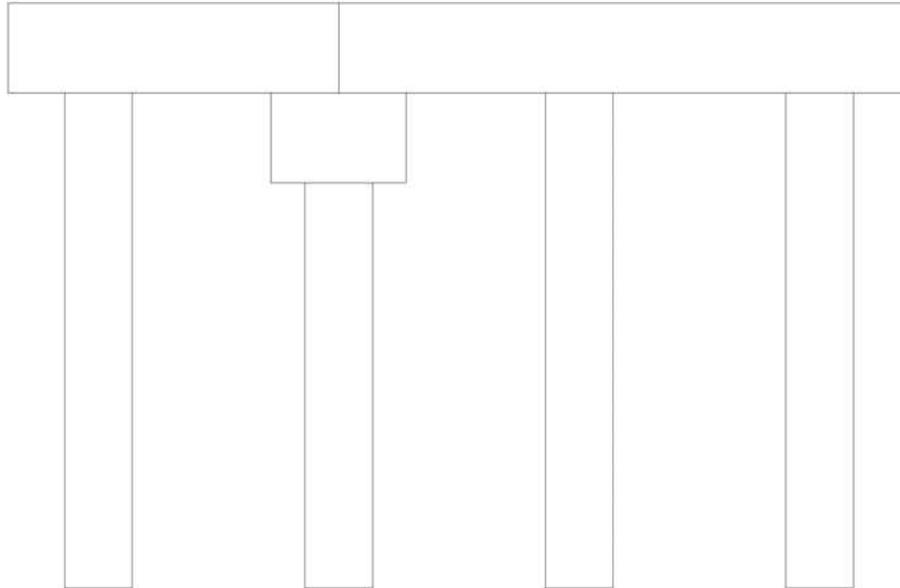
Measurements for Span #	1		
Deck Thickness	0.4167	Left Overhang	0.4583
Top of Rail to Bottom of Beam	4.083	Right Overhang	0.4583

Beam No	Beam Type	Spacing	Comments
1	Timber (Rectangular)	1.75ft	Joists 13 1/2 in (H) x 6 in (W)
2	Timber (Rectangular)	1.333ft	
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)	1.333ft	
19	Timber (Rectangular)		

MEASURMENTS VERIFIED BY RGM ON 8-2-10

Title Typical Section		Description 19 Lines of Timber Joists	
Bridge No: 810060	Drawn By: CLS	Date: 08/26/2008	File Name: S0234000647

Bridge Inspection Field Sketch



Bent #	1		
Cap - Beam Type (Wood or Steel)			
Cap Size	25.8337ft Long	0.9583ft Wide	0.9583ft High
Left Overhang	1.167ft	Lt Cap/Beam Overhang	0.7085ft
Right Overhang	1ft	Rt Cap/Beam Overhang	0.7085ft
Timber Sub Cap			
Size	6ft Long	1ft Wide	0.79167ft High
Left pile to splice	0ft		
Left Overhang	3ft		
Right Overhang	3ft		

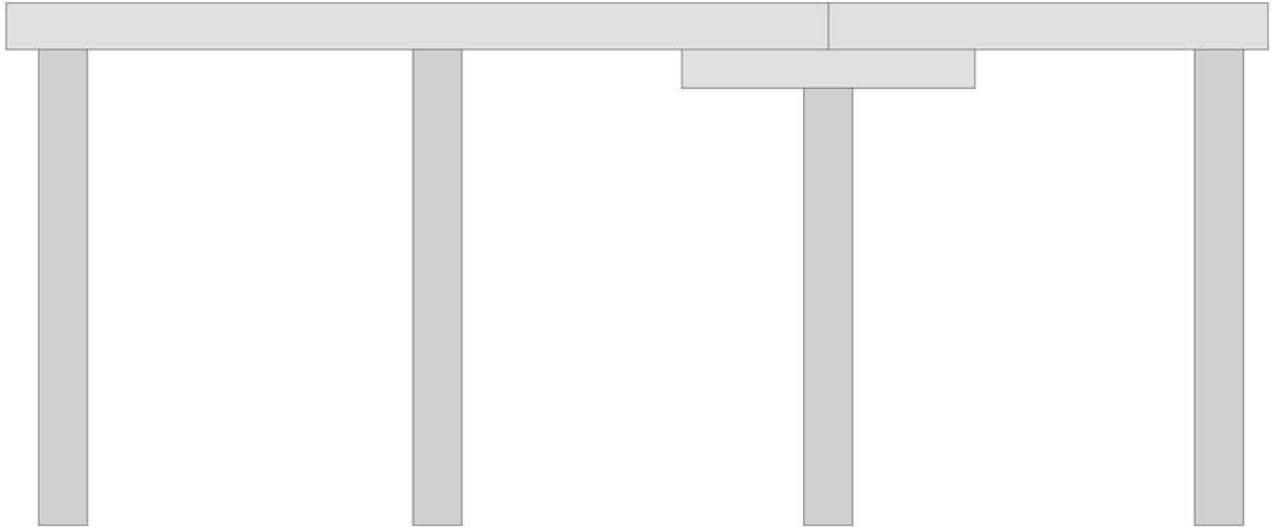
Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	7.667		1		Vertical
2	Wood or Timber	Pile Bent	8		1		Vertical
3	Wood or Timber	Pile Bent	8		1		Vertical
4	Wood or Timber	Pile Bent			1		Vertical

NEW CAP SIZE = 12" W X 11 5/8" H
 NEW SUBCAP SIZE = 11 3/4" W X 9 3/4" H

MEASUREMENTS VERIFIED BY RGM ON 8-2-10

Title Pile Diagram		Description 4 Timber Piles	
Bridge No: 810060	Drawn By: CLS	Date: 08/26/2008	File Name: S0234000648

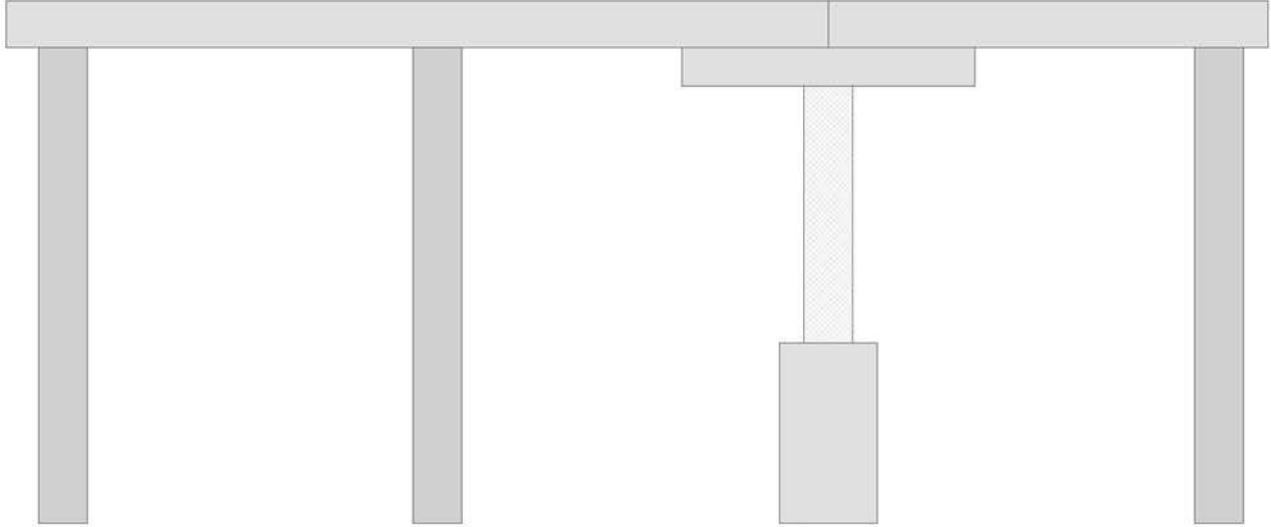
Bridge Inspection Field Sketch



Cap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
25.833 ft.	.958 ft.	.958 ft.	1.167 ft.	1.000 ft.	.709 ft.	.709 ft.				
Subcap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
6.000 ft.	1.000 ft.	.792 ft.	3.000 ft.	3.000 ft.	.0026 ft.					
Sill Information			Material							
Length	Width	Height	NEW CAP SIZE = 11 3/4" W X 11 5/8" H NEW SUBCAP SIZE = 11 3/4" W X 9 5/8" H							
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	7.667 ft.	1 ft.			Vertical	Yes	No	No	No
2	Timber	8 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber	8 ft.	1 ft.			Vertical	Yes	No	No	No
4	Timber		1 ft.			Vertical	Yes	No	No	No
Bent/Abutment #: 1		Similar Bents:		MEASUREMENTS VERIFIED BY RGM ON 8-2-10						

Title PILE DIAGRAM 2			Description END BENT 1 LOOKING WEST			
Bridge No: 810060	Drawn By: RGM	Date: 8/26/2008	File Name: S0042061181			

Bridge Inspection Field Sketch

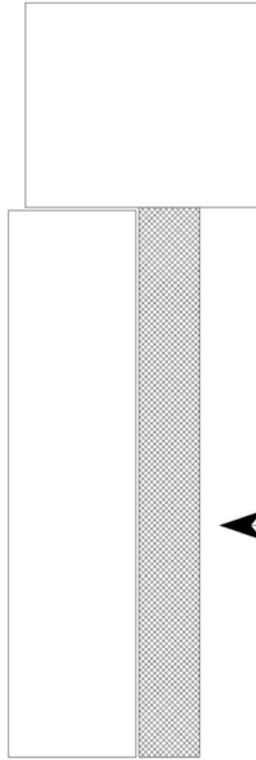


Cap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
25.834 ft.	.958 ft.	.958 ft.	1.167 ft.	1.000 ft.	.709 ft.	.709 ft.				
Subcap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
6.000 ft.	1.000 ft.	.792 ft.	3.000 ft.	3.000 ft.	.0026 ft.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	7.667 ft.	1 ft.			Vertical	Yes	No	No	No
2	Timber	8 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber	8 ft.	1 ft.			Vertical	No	No	No	Yes
4	Timber		1 ft.			Vertical	Yes	No	No	No
Bent/Abutment #: 2			Similar Bents: MEASURMENTS VERIFIED BY RGM ON 8-2-10							

Title PILE DIAGRAM 3		Description END BENT 2 LOOKING WEST			
Bridge No: 810060	Drawn By: RGM	Date: 8/26/2008	File Name: S0042061182		

Bridge Inspection Field Sketch

END BENT 2



PILE 2

BULKHEAD PRESSURE

PUSHED OUT 1/2"

PILE 3 SIMILAR CONDITION

LOOKING NORTH

Title
PRIORITY MAINT.

Description
END BENT 2 PILES

Bridge No: 810060

Drawn By: BC

Date: 8/3/2010

File Name: S0038000829

Bridge Inspection Field Sketch

END BENT 2



NORTH END 2"W X 4"H X 6"Dp.

SOUTH END 5"W X 5"H X 6"Dp.



P-3

Title
PRIORITY MAINT. 2

Description
END BENT 2 CAP

Bridge No: 810060

Drawn By: BC

Date: 8/3/2010

File Name: S0038000830



BENT 1



END BENT 2 (PILE 3 ENCASED IN CONCRETE)



END BENT 1



SPAN 1 UNDERSIDE SPAN 2 SIMILAR



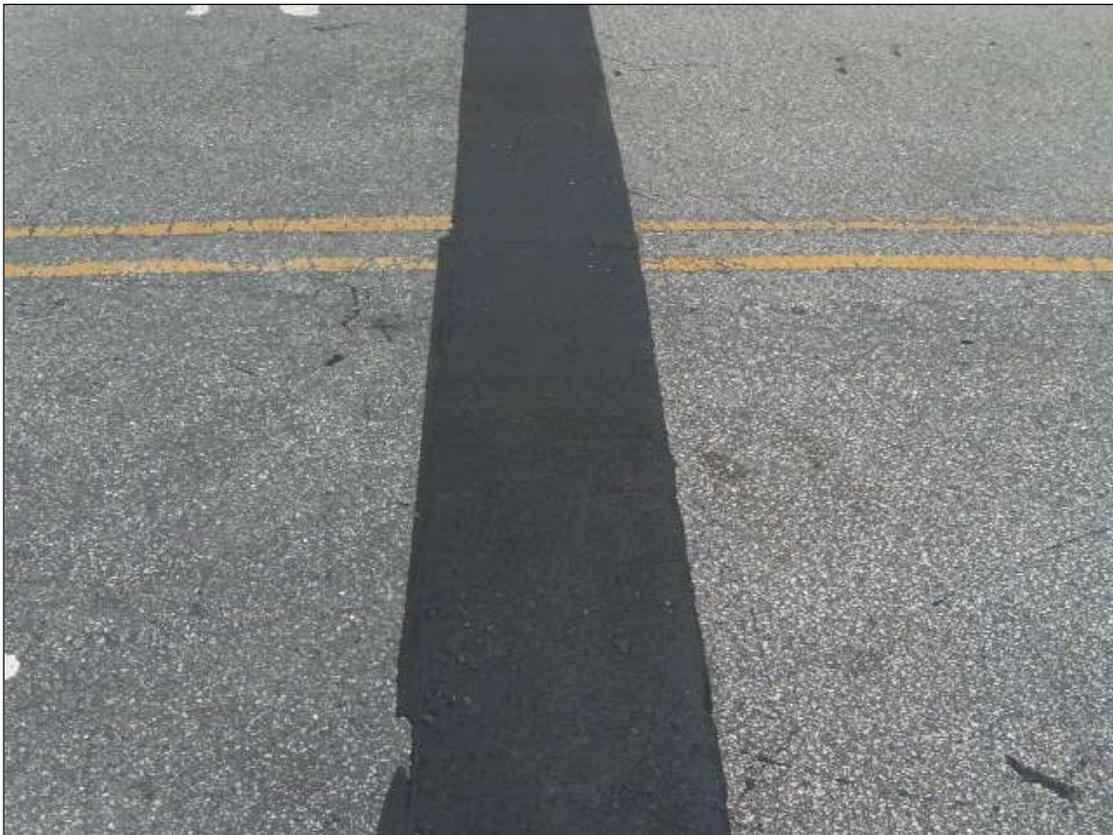
SOUTH END OF BENT 1



LOOKING EAST



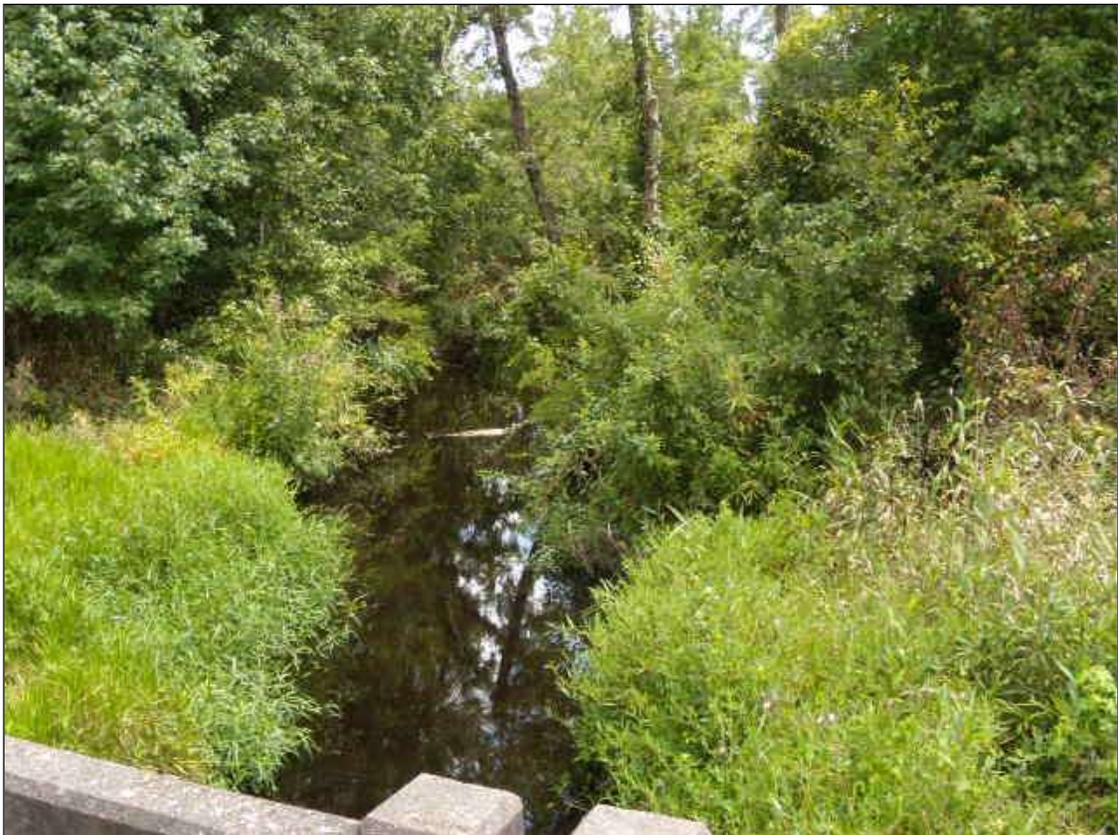
SOUTH SIDE



BENT 1 JOINT



DOWNSTREAM NORTH



UPSTREAM SOUTH



NORTH SIDE



LOOKING WEST



CLOSEUP OF WEIGHT LIMIT SIGN