



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 BRIDGE MANAGEMENT UNIT

ATTENTION

PRIORITY MAINTENANCE ISSUED ON ANCHOR BOLT

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY JOHNSTON BRIDGE NUMBER 500085 INSPECTION CYCLE 2 YRS

90.5

ROUTE 195 SBL ACROSS BLACK CREEK M.P. 90500

LOCATION 0.8 MI.N.JCT US301/701

SUPERSTRUCTURE RC FLOOR ON I-BEAMS

SUBSTRUCTURE EBTS:RC CAP/H-PILES @ 8'CTS;IBTS:RCP&BEAM

SPANS 1@51'6";2@50";1@50'3

LONGITUDE 78° 22' 50.3"

LATITUDE 35° 28' 0.4"

PRESENT CONDITION FAIR

INVENTORY RATING H5-21

INSPECTION DATE 04/09/2010

OPERATING RATING H5-35

PRESENT POSTING Not Posted

PROPOSED POSTING N.P.

COMPUTER UPDATE 6-3-10

ANALYSIS DATE 4-22-10

POSTING LETTER DATE _____

SUFFICIENCY RATING _____

OTHER SIGNS PRESENT 2 DELINEATORS AT NORTH END ONLY



LOOKING NORTH

SIGN NOTICE
ISSUED FOR

NUMBERED
REQUIRED

<u>No</u>	WEIGHT LIMIT	_____
<u>No</u>	DELINEATORS	_____
<u>No</u>	NARROW BRIDGE	_____
<u>No</u>	ONE LANE BRIDGE	_____
<u>No</u>	LOW CLEARANCE	_____

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE 500085
 (8) STRUCTURE NUMBER(FEDERAL) 000000001010085
 INVENTORY ROUTE (ON/UNDER) - ON 111000950
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 4
 (3) COUNTY CODE 101 (4) PLACE CODE 00000
 (6) FEATURE INTERSECTED - BLACK CREEK
 (7) FACILITY CARRIED I95 SBL
 (9) LOCATION 0.8 MI.N.JCT US301/701
 (11)MILEPOINT 90500
 (16)LAT 35° 28' 0.4" (17)LONG 78° 22' 50.3"
 (98)BORDER BRIDGE STATE CODE PCT SHARE
 (99)BORDER BRIDGE STRUCTURE NO

SUFFICIENCY RATING = 80.2
 STATUS = Not Deficient

CLASSIFICATION

(112)NBIS BRIDGE SYSTEM - YES
 (104)HIGHWAY SYSTEM NHS Route 1
 (26) FUNCTIONAL CLASS - Arterial - Interstate 01
 (100)STRAHNET HIGHWAY - Interstate STRAHNET Route 1
 (101)PARALLEL STRUCTURE - Left Parallel Structure L
 (102)DIRECTION OF TRAFFIC - 1-way Traffic 1
 (103)TEMPORARY STRUCTURE - Not Temporary
 (110)DESIGNATED NATIONAL NETWORK - Is Part of 1
 (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: Steel
 TYPE - Stringer Mutlibeam or Girder CODE 302
 (44) STRUCTURE TYPE APPR :
 TYPE - CODE
 (45) NUMBER OF SPANS IN MAIN UNIT 4
 (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 - Bituminous CODE 6
 (B) TYPE OF MEMBRANE - None CODE 0
 (C) TYPE OF DECK PROTECTION - None CODE 0

CONDITION

(58) DECK 5
 (59) SUPERSTRUCTURE 6
 (60) SUBSTRUCTURE 6
 (61) CHANNEL & CHANNEL PROTECTION 7
 (62) CULVERTS N

LOAD RATING AND POSTING

(31) DESIGN LOAD HS 20+MOD 6
 (64) OPERATING RATING - HS-36 164
 (66) INVENTORY RATING - HS-21 138
 (70) BRIDGE POSTING - No Posting Required 5
 (41) STRUCTURE OPEN, POSTED ,OR CLOSED A
 DESCRIPTION - Open, No Restriction

AGE AND SERVICE

(27) YEAR BUILT 1955
 (106)YEAR RECONSTRUCTED
 (42) TYPE OF SERVICE : ON - Highway
 UNDER - Waterway CODE 15
 (28) LANES: ON STRUCTURE 2 UNDER STRUCTURE
 (29) AVERAGE DAILY TRAFFIC 18500
 (30) YEAR OF ADT 2008 (109) TRUCK ADT PCT 23 %
 (19) BYPASS OR DETOUR LENGTH 1 MI

APPRAISAL

(67) STRUCTURAL EVALUATION 6
 (68) DECK GEOMETRY 4
 (69) UNDERCLEARANCES,VERTI & HORIZ N
 (71) WATERWAY ADEQUACY 7
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES 0111
 (113)SCOUR CRITICAL BRIDGES 8
 SCOUR PLAN OF ACTION

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 52 FT
 (49) STRUCTURE LENGTH 202 FT
 (50)CURB OR SIDEWALK: LEFT 0.0 FT RIGHT 0.0 FT
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 28.2 FT
 (52) DECK WIDTH OUT TO OUT 29.8 FT
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 38.0 FT
 (33) BRIDGE MEDIAN - Open Median CODE 1
 (34) SKEW 0° (35) STRUCTURE FLARED NO
 (10) INVENTORY ROUTE MIN VERT CLEAR, 99 FT 99 IN
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 28.2 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 230 FT
 (94) BRIDGE IMPROVEMENT COST \$747,000
 (95) ROADWAY IMPROVEMENT COST \$187,000
 (96) TOTAL PROJECT COST \$1,121,000
 (97) YEAR OF IMPROVEMENT COST ESTIMATE 2007
 (114)FUTURE ADT 37000 (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 04/09/2010
 (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. 500085 COUNTY JOHNSTON ROUTE 195 SBL OVER BLACK CREEK
 STRUCTURE TYPE RC FLOOR ON I-BEAMS
 ROUTE ORIENTATION S - N SPANS 1@51'6";2@50';1@50'3

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

INSPECTION ITEM				ITEM 61				
DECK ITEMS			GRADES					
1. WEARING SURFACE			7	45. CHANNEL & CHANNEL PROT.	a. WATERWAY	8		
2. DECK NO. OF EA TYPE			4		b. ALIGNMENT	8		
a. CONCRETE			5		c. SCOUR	8		
b. TIMBER					d. SLOPE PROT., RIP-RAP, DIKES, ETC.	7		
SPN GRADE RATES SI & A ITEM 58				50. APPROACH ROADWAY CONDITION			7	
c. STEEL PLANK				51. APPROACH SLABS			6	
d. OPEN GRID			6	52. PAINT SYSTEM CODE A			5	
3. RAILING				53. UTILITIES				
a. CONCRETE				54. RESPONSE TO LIVE LOAD			7	
b. TIMBER				55. ESTIMATED REMAINING LIFE			10	
c. ALUMINUM								
d. STEEL			5					
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			6					
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			NO	
b. MISC PREFAB				63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)			8	
c. COMPRESSION SEAL				64. TOTAL SNOOPER INSP. TIME (HRS)			0	
d. STANDARD JOINTS			4	65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)			0	
e. OPEN JOINTS								
7. DECK DEBRIS (INCLUDES EXCESS SAND/GRAVEL)			7					
				70. SI&A GENERAL CONDITION RATINGS				
SUPER STR. (FM. 1 (90)B TRUSS) ITEM 59				a. DECK	ITEM 58	5		
10. LONGITUDINAL BEAMS OR GIRDERS			6	b. SUPERSTRUCTURE	ITEM 59	6		
11. LONGITUDINAL JOIST OR STRINGERS				c. SUBSTRUCTURE	ITEM 60	6		
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S			7	d. CHANNEL & CHANNEL PROT.	ITEM 61	7		
13. END DIAP'S, CURTAIN WALLS, & CONN'S			5					
14. FLOOR BEAMS AND CONNECTIONS				71. SI&A FIELD APPRAISAL RATINGS				
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)			5	a. WATERWAY ADAQUACY	7			
16. DRAINAGE SYSTEM (ON STRUCTURE)			6	b. APPR. RDWY. ALIGNMENT	8			
17. MOVABLE SPAN MACHINERY								
				72. FIELD SCOUR EVALUATION				G
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)								
35. TIM SUB STR.				USE OF INSP. ACCESSIBILITY EQUIPMENT				
a. ABUT. & INT. BENT CAPS & RISERS				SNOOPER (CODE S, 4, OR N)		HRS	NO	
b. PILES, POST, SILLS, & BRACING				LADDER			YES	
c. BULKHEADS, WING'S, & TIE BACKS				BUCKET TRUCK			NO	
36. CONC SUB STR.				BOAT			NO	
a. ABUT. & INT. BENT CAPS			6	OTHER			NO	
b. ABUT. & BENT COL'S BREASTWALLS			6					
c. ABUT. & INT. BENT PILES								
d. BACKWALLS, WING'S, RETAIN. WALLS			5					
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)			7					
40. FENDER SYSTEMS				80. INSPECTED BY:		W. C. [Signature]		
41. DRIFT			8	81. REVIEWED BY:				

Bridge I&A Form 1(82)H		<h1>FIELD INSPECTION REPORT</h1> <p><u>Bridge Inspection & Analysis</u></p>	
State of North Carolina Dept. of Transportation Division of Highways			
Team Leader WILLIS C MAY			
Assisted By WTW			
Item No.	Grade		
1	7	WEARING SURFACE 7 ASPHALT WEARING SURFACE HAS BEEN REPAIRED OVER EXPANSION JOINTS.	
2a	5	CONCRETE DECK 5 RANDOM HAIRLINE TRANSVERSE CRACKS IN EDGE OF DECK AND BOTTOM OF OVERHANGS. RANDOM HAIRLINE, TRANSVERSE, LONGITUDINAL AND MAP CRACKS IN BOTTOM OF DECK IN ALL SPANS. SPAN 1 PREVIOUS REPORT STATED SPALLS IN TOP OF DECK IN SPAN 1 AND SPAN 2 AT BENT 1 NOW COVERED WITH ASPHALT. SPAN 3- 1/32 IN. WIDE TRANSVERSE CRACK WITH WATER SEEPAGE IN BOTTOM OF DECK IN BAY 2 @ 1/3 POINT FROM BENT 2.	
3a	6	CONCRETE RAILS 6 SPAN 1 RIGHT SIDE GUARDRAIL POST BASE OF SPAN 1 AT BENT 1 IS SPALLED 1 FT. X 3 FT. X 5 IN. DEEP WITH EXPOSED REBAR . SPAN 4 ENDS OF CONCRETE RAIL SPALLED RIGHT SIDE OF SPAN 4.	
3d	5	STEEL RAILS 5 50 FT. OF GUARDRAIL DAMAGE AT RIGHT SIDE OF SPAN 1 AND SPAN 2 WITH 4 MOUNTING BRACKETS COLLAPSED.	
4	6	CURBS 6 SCALING WITH EXPOSED COARSE AGGREGATE IN FACES . RANDOM TRANSVERSE CRACKS IN FACES .	
6d	5	STANDARD JOINTS 5 JOINTS ARE LEAKING.	
10	6	LONGITUDINAL BEAMS 6 SPAN 1 BEAM 1 SPAN 1 BENT 1 BOTTOM FLANGE HAS SECTION LOSS 4 FT. LONG WITH 7/8 IN. REMAINING IN LEFT SIDE ONLY. SPAN 3 BEAM 1 SPAN 3 AT BENT 2 BOTTOM FLANGE HAS SECTION LOSS WITH 7/8 IN. REMAINING 2 FT. LONG STARTING 1 FT. FROM BENT AND SECTION LOSS IN RIGHT SIDE WEB WITH 9/16 IN. REMAINING 6 IN. HIGH X 2 FT. LONG.	
13	5	END DIAPHRAGMS 5 BENT DIAPHRAGMS HAVE HAIRLINE VERTICAL AND DIAGONAL CRACKS TO 1/32 INCH WITH SOME EFFLORESCENCE ON FACE AND BOTTOM. DIAPHRAGMS BUTTED TIGHTLY TOGETHER WITH MINOR SPALLS AT SOME BEAMS. BENT 2 SPAN 2 BENT 2 LEFT OVERHANG DIAPHRAGM SPALLED 1 IN. DEEP X 6 IN. WIDE X 18 IN. HIGH . BENT 3 RIGHT SIDE SPAN 3 AND SPAN 4 AND LTS SE OVERHANG DIAPHRAGM AT BENT 3 IS CRACKED AND DELAMINATED.	

Bridge I&A Form 1(82)H State of North Carolina Dept. of Transportation Division of Highways	<h2 style="margin: 0;">FIELD INSPECTION REPORT</h2> <p style="margin: 0;"><u>Bridge Inspection & Analysis</u></p>	
--	---	--

Team Leader **WILLIS C MAY**

Assisted By **WTW**

Item No.	Grade	
36b	6	<p>CONCRETE COLUMNS 6 ABRASION WITH EXPOSED COARSE AGGREGATE IN FACES AT WATERLINE .</p> <p>BENT 1 COLUMN 1 BENT 1 1/32 IN. VERTICAL CRACK IN LEFT AND RIGHT SIDE AT GROUND LINE . 4 IN. X 8 IN. X 1 IN. DEEP SPALL WITH EXPOSED REBAR AT TOP OF COLUMN SPAN 1 SIDE . COLUMN 2 BENT 1 1/32 X 6 FT. LONG VERTICAL CRACK IN RIGHT SIDE AT GROUND LINE .</p> <p>BENT 2 COLUMN 1 SPALLED ON BOTTOM AND END WITH EXPOSED REBAR 6 IN. DIAMETER X 1 IN. DEEP . 1 1/2 IN. DEEP SPALL ON LEFT CORNER SPAN 2 SIDE AT WATERLINE .</p> <p>BENT 3 HAIRLINE VERTICAL CRACK NEAR GROUND LINE ON LEFT SIDE OF COLUMN 1 AND RIGHT SIDE OF COLUMN 2. SURFACE SPALL WITH EXPOSED REBAR IN END OF LEFT AND RIGHT SIDE OF ARCH 1/2 IN. DEEP X 3 IN. DIAMETER .</p>
36d	5	<p>CONCRETE RETAINING WALLS 5 END BENT 1 HAIRLINE TO 1/32 IN. HORIZONTAL CRACK IN EACH BAY NEAR TOP OF BACKWALL. END BENT 2 1/32 INCH HORIZONTAL CRACK WITH EFFLORESCENCE AT TOP OF BACKWALL BAY 1 AND 3 AT END BENT 2 . BACKWALL CRACKED WITH DELAMINATION AND EFFLO LEAKAGE 2 FT. WIDE X 6 FT. LONG AND OFFSET 1/2 INCH IN BAY 2 AT END BENT 2 .</p>
50	7	<p>APPROACH ROADWAY CONDITION 7 TRANSVERSE CRACK AT BOTH END BENTS.</p>


BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 500085

County JOHNSTON

Date: 04/09/2010

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	10	TRANSVERSE CRACKS IN ASPHALT WEARING SURFACE OVER INTERIOR BENTS.	
3306 (578)	Maintain Concrete Superstructure Components	SF	10	CRACKS AND SPALLS IN DIAPHRAGMS.	
3318 (566)	Maint to Concrete Handrail	LF	3	GUARDRAIL POST BASE AT BENT 1 IS SPALLED WITH EXPOSED REBAR.	
3322 (568)	Maint to Steel Handrail	LF	50	50 FT. OF GUARDRAIL DAMAGE AT RIGHT SIDE OF SPAN 1 AND SPAN 2 WITH 4 MOUNTING BRACKETS COLLAPSED.	
 3334 (578)	Bridge Bearings	EA	1 TSE 6/15/10	SECTION LOSS WITH 1/4 IN. REMAINING IN THE LEFT SIDE ANCHOR BOLT OF BEAM 2 SPAN 3 AT BENT 3.	
3342 (554)	Clean and Paint Structural Steel	SF	1800	BRIDGE NOT POSTED. PEELING PAINT AND RUST THROUGHOUT. BEARINGS ARE RUSTY WITH SECTION LOSS IN FACES.	
3348 (583)	Maintain Concrete Substructure Components	LF	10	SPALL IN RIGHT END OF BENT 1 CAP, SPALL IN BENT COLUMNS.	
3376 (602)	Clean/Wash Bridge Decks	SF	400	50 PERCENT OF THE DRAIN HOLES ARE CLOGGED .	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 500085 County JOHNSTON

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

MMS Code	MMS Description	Quantity
3334	Bridge Bearings	1 EA
Location:		
Beams and Girders	Bent/Span No. 3	BEAM 2 SPAN 3 BENT 3
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
04/12/2010	WILLIS C MAY	WAYNE T WILKINSON
Details		
SECTION LOSS WITH 1/4 IN. REMAINING IN THE LEFT SIDE ANCHOR BOLT OF BEAM 2 SPAN 3 AT BENT 3. BRIDGE NOT POSTED.		



RANDOM HAIRLINE TRANSVERSE CRACKS WITH EFFLORESCENCE IN DECK OVERHANGS



HAIRLINE MAP CRACKING IN BOTTOM OF DECK SPAN 1



SURFACE SPALL WITH EXPOSED REBAR IN COLUMN 1 AT BENT 1 SPAN 1 SIDE JUST UNDER CAP



GUARDRAIL END POST BASE AT THE RIGHT SIDE OF BENT 1 SPAN 1 SIDE IS SPALLED WITH EXPOSED REBAR



TRANSVERSE CRACK IN WEARING SURFACE OVER END BENT 1



TRANSVERSE CRACKS IN WEARING SURFACE OVER END BENT 2



TRANSVERSE CRACK IN APPROACH 2



DELAMINATION ALONG THE TOP OF BACKWALL AT END BENT 2 BAY 1



BACKWALL AT END BENT 2 BAY 2 CRACKED, SPALLED AND DELAMINATING



RANDOM SPOTS OF PEELING PAINT AND SURFACE RUST IN BEAM WEBS



CORNER SPALL WITH EXPOSED REBAR AT BENT 1 RIGHT END OF CAP



BENT COLUMNS SCALED WITH COARSE AGGREGATE EXPOSED UP TO HIGH WATER MARK



TRANSVERSE CRACK WITH WATER SEEPAGE IN BOTTOM OF DECK SPAN 3 BAY 2 AT 1/3 POINT FROM BENT
2



SPALL WITH EXPOSED REBAR IN LEFT EXTERIOR DIAPHRAGM AT BENT 2 SPAN 2 SIDE



LEFT EXTERIOR DIAPHRAGM AT BENT 3 SPAN 3 SIDE CRACKED AND DELAMINATING



BENT STRUTS SCALED WITH COARSE AGGREGATE EXPOSED



HAIRLINE VERTICAL CRACK IN FACE OF CAP AT BENT 2 SPAN 3 SIDE UNDER BEAM 4



SECTION LOSS IN THE RIGHT SIDE BOTTOM FLANGE AND WEB OF BEAM 1 IN SPAN 3 OVER BENT 2



SECTION LOSS IN THE LEFT SIDE ANCHOR BOLT OF BEAM 2 BEARING ASSEMBLY AT BENT 3 SPAN 3 SIDE
(PRIORTIY MAINTENACE ISSUED)

BRIDGE MANAGEMENT UNIT
DATA ON EXISTING STRUCTURE

Run Date: 06/16/2010

COUNTY :	DIV :	DIST :	STRUCTURE NUMBER :	LENGTH :	
JOHNSTON	4	3	500085	202 FEET	
ROUTE CARRIED :	FEATURE INTERSECTED :				
I95 SBL	BLACK CREEK				
LOCATED :	BRIDGE NAME :		CITY :		
0.8 MI.N.JCT US301/701					
FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :	
01	FA	NFA	18500 2008	LT 333 RT 333	
BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :	
1955	SHPWC	2336		HS 20+MOD	
REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :
			TAN. 90		ON 2 UNDER
NAVIGATION :	HT. CRN. TO BED :			WATER DEPTH :	
VC 0.0 FT HC 0.0 FT	27 FT			3 FT	
SUPERSTRUCTURE :	RC FLOOR ON I-BEAMS				
SUBSTRUCTURE :	EBTS:RC CAP/H-PILES @ 8'CTS;IBTS:RCP&BEAM				
SPANS :	1@51'6";2@50';1@50'3				
BEAMS OR GIRDERS :	4 LINES W33X130 I-BEAMS @ 8'CENTERS				
FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :			
7 RC/4 AWS		29.8 FT			
CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :			
28.2 FT	28.2 FT	LT 0.0 FT RT 0.0 FT			
VERT.CL.OVER :	VERT.CL.UNDER :	HOR.CL.UNDER :			
99 FT 99 IN	00 FT 00 IN	0.0 FT			
INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :		
HS-21	HS-36	BEAM EXT.	SV	TTST	DATE
SYSTEM :	GREEN LINE ROUTE :				
Primary Interstate	Y.				
2ND OPENING :	3RD OPENING :	4TH OPENING :	5TH OPENING :		
REMARKS :					

Structure Data Worksheet

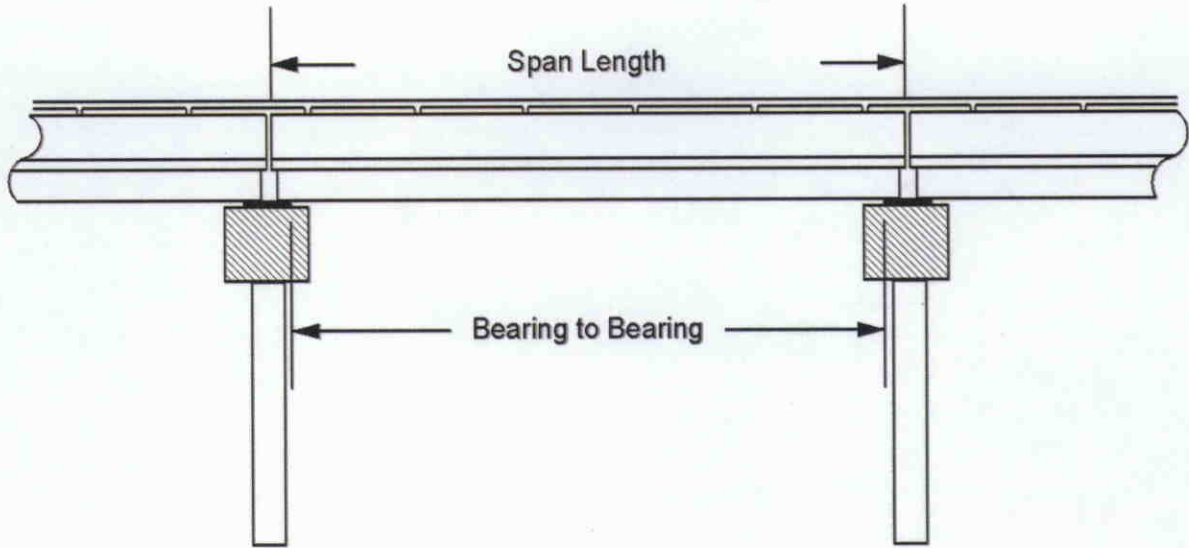
Spans

County: JOHNSTON

Structure No: 50085

Date: 04/09/2010

Inspected By: WCM



Span No	Span Length	Bearing to Bearing	Comments
1	51.5	SEE PLANS	
2	50		
3	50		
4	50.25		

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 500085 County: JOHNSTON Date: 04/09/2010 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	2.1	TOP OF WALL			
0.1	6.1	TOC			
1.5	6.1	TOC			
1.51	6.3	GAC	1.51	6.4	GAC
50.5	25	BENT 1	50.5	27	BENT 1
55	27	Water Surface/Water Edge (WSWE)			
100.5	27.9	BENT 2	100.5	28	BENT 2
107	27	Water Surface/Water Edge (WSWE)			
150.5	24.2	BENT 3	150.5	24.9	BENT 3
170	22.4	TOE OF SLOPE			
195	7.4	TOP OF SLOPE			
200.7	7	GAC	200.7	7	GAC
200.71	6.1	TOC			
202.2	6.1	TOC			
202.21	2.1	TOP OF WALL			

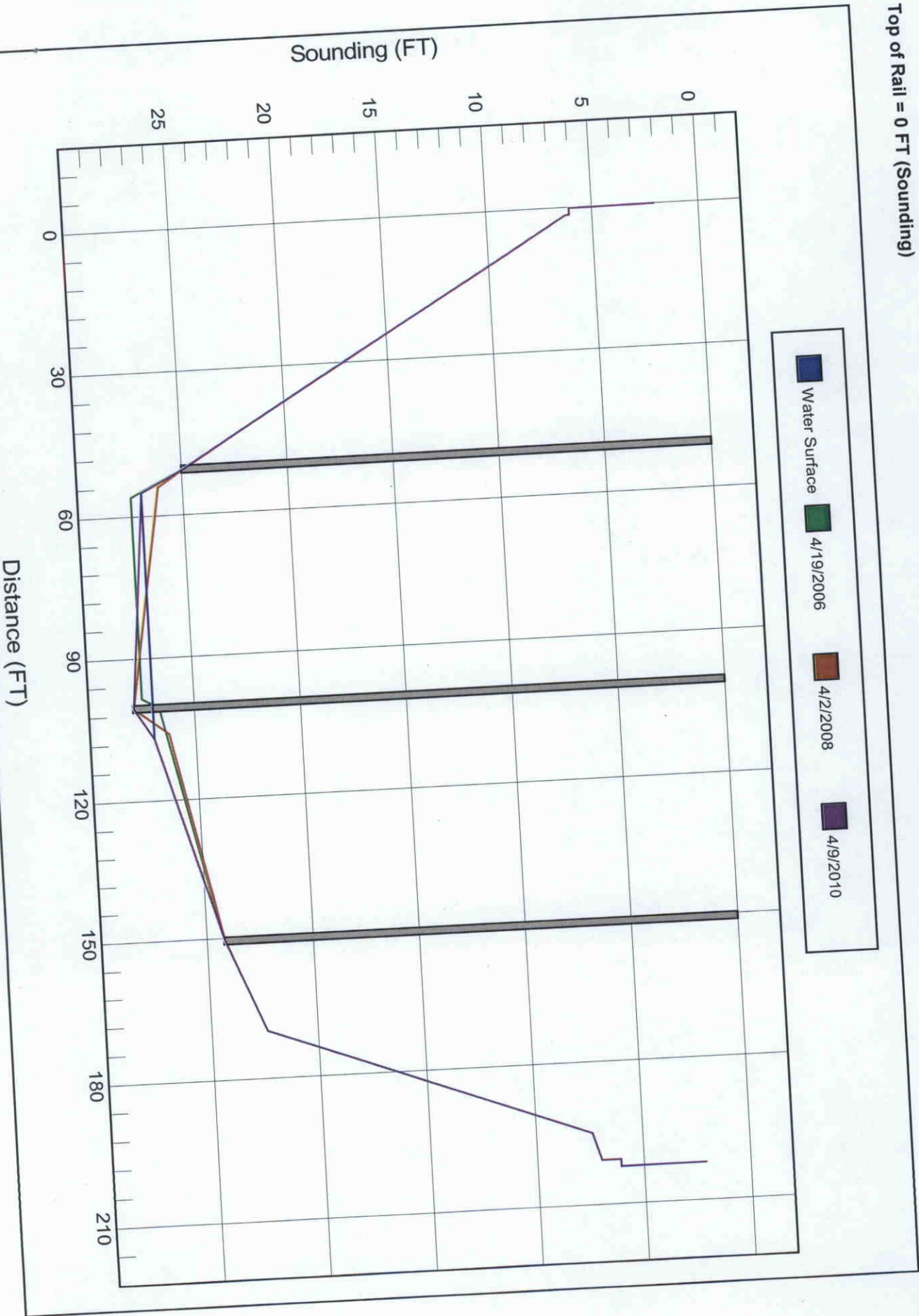
Bridge: 500085

County JOHNSTON

Date: 04/09/2010

Top of Rail = 0 FT (Sounding)

STREAMBED PROFILE (Downstream)



Bridge Inspection Field Sketch



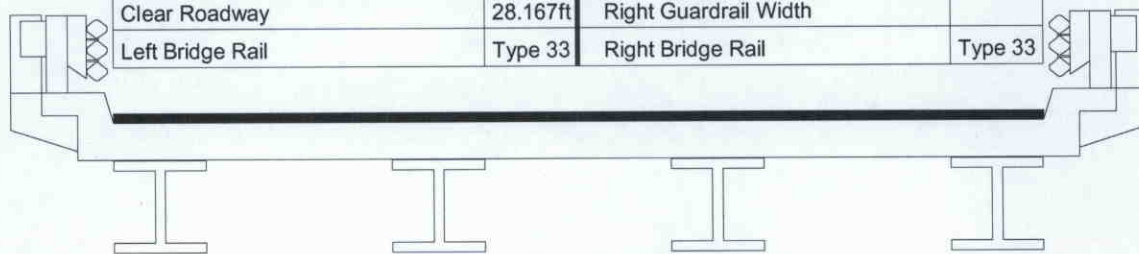
Roadway	24ft Wide	2 Paved Lanes	Looking North
Left Shoulder	6.5ft Wide	3.5ft Paved	3ft Unpaved
Right Shoulder	14ft Wide	10ft Paved	4ft Unpaved
Left Guardrail			
Right Guardrail			

CHECKED BY: WTW 4/9/10

Title APPROACH ROADWAY		Description LOOKING NORTH	
Bridge No: 500085	Drawn By: GGW	Date: 04/13/2006	File Name: S0214000202

Bridge Inspection Field Sketch

Deck Width/Out to Out	29.833ft	Wearing Surface	.333ft
Between Rails	28.167ft	Median Width	
Curb Height	.667ft	Median Height	
Top Rail to Deck/Wearing Surface	2.333ft	Left Guardrail Width	
Clear Roadway	28.167ft	Right Guardrail Width	
Left Bridge Rail	Type 33	Right Bridge Rail	Type 33



Measurements for Span #	1		
Deck Thickness	.583	Left Overhang	2.917
Top of Rail to Bottom of Beam	5.833	Right Overhang	2.917

Beam No	Beam Type	Spacing	Comments
1	Steel I Beam	8ft	W33 X 130 IBEAM
2	Steel I Beam	8ft	W33 X 130 IBEAM
3	Steel I Beam	8ft	W33 X 130 IBEAM
4	Steel I Beam		W33 X 130 IBEAM

CHECKED BY: WTW 4/9/10

Title
TYPICAL SECTION

Description
LOOKING NORTH

Bridge No: 500085

Drawn By: GGW

Date: 04/13/2006

File Name: S0214000203



LOOKING NORTH



END BENT 1 OVERVIEW



TYPICAL BEARING ASSEMBLY



BENT 1 SPAN 1 SIDE



SUPERSTRUCTURE OVER BENT 1 END OF CAP, OTHER BENTS SIMILAR



BENT 2 SPAN 2 SIDE



SUPERSTRUCTURE OVERVIEW, ALL SPANS SIMILAR



APPROACH 1



ASPHALT WEARING SURFACE OF SPAN 1 OTHERS SIMILAR



JOINT AT BENT 1



LOOKING WEST UPSTREAM



JOINT AT BENT 2



JOINT AT BENT 3



LOOKING SOUTH



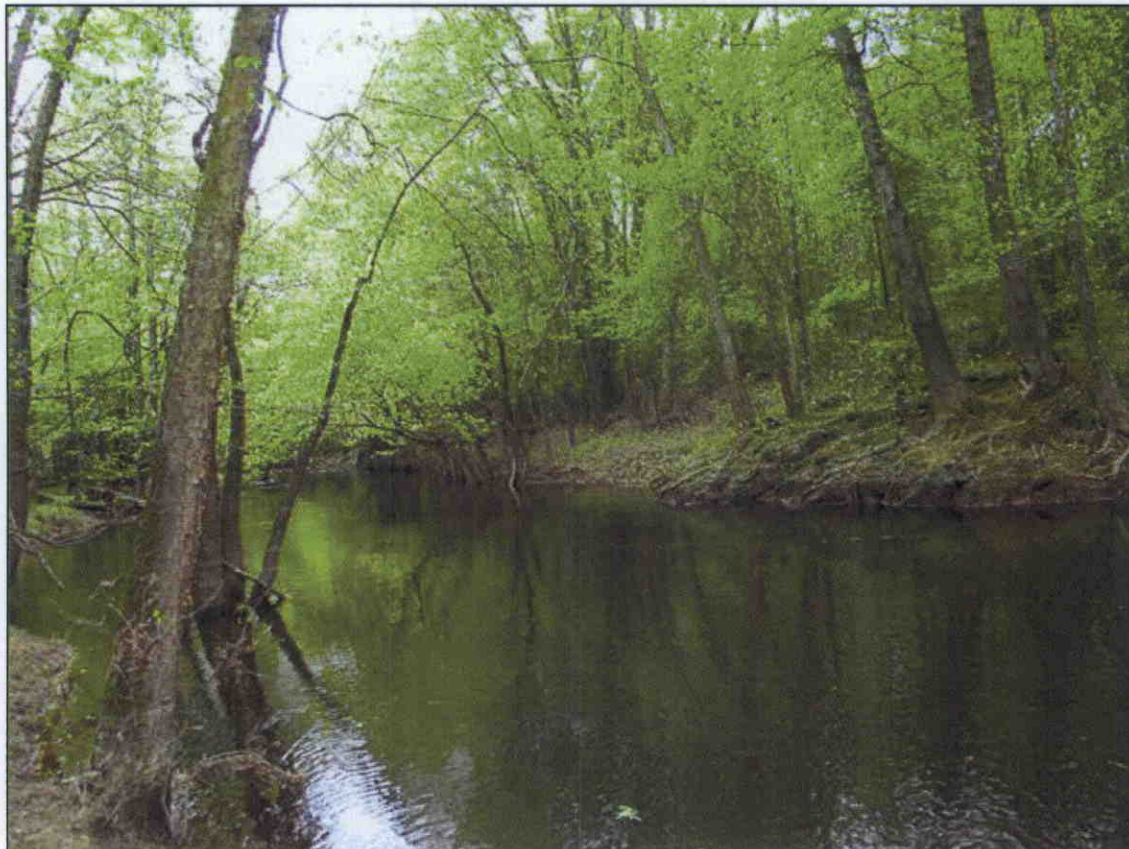
TYPICAL GUARDRAIL CONNECTION ALONG CURBLINES



BENT 3 SPAN 3 SIDE



END BENT 2 OVERVIEW



LOOKING EAST DOWNSTREAM



EAST PROFILE