



NC DEPARTMENT OF TRANSPORTATION ATTENTION  
 DIVISION OF HIGHWAYS  
 BRIDGE MANAGEMENT UNIT

# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY JOHNSTON BRIDGE NUMBER 500100 INSPECTION CYCLE 2 YRS  
 ROUTE I95 NB  
I95 ACROSS NEUSE RIVER M.P. 91500

LOCATION 1.8MI.N.JCT.I95,US301&701

SUPERSTRUCTURE RC FLOOR ON I-BEAMS

SUBSTRUCTURE EBTS&IBTS:RC CAPS ON CONC.ENCASED H-PILES

SPANS 1@50'3;6@50';1@50'3

LONGITUDE 78° 22' 5.4" LATITUDE 35° 28' 3.9"

PRESENT CONDITION FAIR INVENTORY RATING \_\_\_\_\_

INSPECTION DATE 05/18/2011 OPERATING RATING \_\_\_\_\_

PRESENT POSTING Not Posted **NOT POSTED** PROPOSED POSTING \_\_\_\_\_

COMPUTER UPDATE \_\_\_\_\_ ANALYSIS DATE \_\_\_\_\_

POSTING LETTER DATE \_\_\_\_\_ SUFFICIENCY RATING \_\_\_\_\_

OTHER SIGNS PRESENT 2 DELINEATORS SOUTH END



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	_____

APPROACH 1

NATIONAL BRIDGE INVENTORY----- STRUCTURE INVENTORY AND APPRAISAL Run Date: 06/08/2011

**IDENTIFICATION**

(1) STATE NAME -NORTH CAROLINA BRIDGE 500100  
 (8) STRUCTURE NUMBER(FEDERAL) 000000001010100  
 INVENTORY ROUTE (ON/UNDER) - ON 111000950  
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 4  
 (3) COUNTY CODE 101 (4) PLACE CODE 00000  
 (6) FEATURE INTERSECTED - NEUSE RIVER  
 (7) FACILITY CARRIED I95  
 (9) LOCATION 1.8MI.N.JCT.I95,US301&701  
 (11)MILEPOINT 91500  
 (16)LAT 35° 28' 3.9" (17)LONG 78° 22' 5.4"  
 (98)BORDER BRIDGE STATE CODE PCT SHARE  
 (99)BORDER BRIDGE STRUCTURE NO

SUFFICIENCY RATING = 56  
 STATUS = Not Deficient

**CLASSIFICATION** **CODE**

(112)NBIS BRIDGE SYSTEM - YES  
 (104)HIGHWAY SYSTEM NHS Route 1  
 (26) FUNCTIONAL CLASS - Arterial - Interstate 11  
 (100)STRAHNET HIGHWAY - Interstate STRAHNET Route 1  
 (101)PARALLEL STRUCTURE - Right Parallel Structure R  
 (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 8  
 (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** **CODE**

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

**LOAD RATING AND POSTING** **CODE**

(31) DESIGN LOAD HS 20+MOD 6  
 (64) OPERATING RATING - HS-45 181  
 (66) INVENTORY RATING - HS-27 148  
 (70) BRIDGE POSTING - No Posting Required 5  
 (41) STRUCTURE OPEN, POSTED ,OR CLOSED A  
 DESCRIPTION - Open, No Restriction

**AGE AND SERVICE**

(27) YEAR BUILT 1957  
 (106)YEAR RECONSTRUCTED  
 (42) TYPE OF SERVICE : ON - Highway  
 UNDER - Waterway CODE 15  
 (28) LANES: ON STRUCTURE 2 UNDER STRUCTURE  
 (29) AVERAGE DAILY TRAFFIC 19500  
 (30) YEAR OF ADT 2009 (109) TRUCK ADT PCT 16 %  
 (19) BYPASS OR DETOUR LENGTH 8 MI

**APPRAISAL** **CODE**

(67) STRUCTURAL EVALUATION 5  
 (68) DECK GEOMETRY 4  
 (69) UNDERCLEARANCES,VERTI & HORIZ N  
 (71) WATERWAY ADEQUACY 7  
 (72) APPROACH ROADWAY ALIGNMENT 7  
 (36) TRAFFIC SAFETY FEATURES 1111  
 (113)SCOUR CRITICAL BRIDGES 8  
 SCOUR PLAN OF ACTION

**GEOMETRIC DATA**

(48) LENGTH OF MAXIMUM SPAN 50 FT  
 (49) STRUCTURE LENGTH 401 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 31.6 FT  
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 38.0 FT  
 (33) BRIDGE MEDIAN - Open Median CODE 1  
 (34) SKEW 30° (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 441 FT  
 (94) BRIDGE IMPROVEMENT COST \$1,430,000  
 (95) ROADWAY IMPROVEMENT COST \$358,000  
 (96) TOTAL PROJECT COST \$2,145,000  
 (97) YEAR OF IMPROVEMENT COST ESTIMATE 2007  
 (114)FUTURE ADT 39000 (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 05/18/2011  
 (92) CRITICAL FEATURE INSPECTION : (93) CFI DATE  
 A) FRACTURE CRIT DETAIL - NO A)  
 B) UNDERWATER INSP - YES 48Mo B) 09/01/2009  
 C) OTHER SPECIAL INSP NO C)  
 SCOUR

# BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection  
 BRIDGE NO. 500100 COUNTY JOHNSTON ROUTE 195 OVER NEUSE RIVER  
 STRUCTURE TYPE RC FLOOR ON I-BEAMS  
 ROUTE ORIENTATION S - N SPANS 1@50'3;6@50';1@50'3

EVALUATION CODES: CRITICAL (C, 0 - 3); POOR (P, 4); FAIR (F, 5, 6); GOOD (G, 7 - 9)

INSPECTION ITEM				ITEM 61			
DECK ITEMS			GRADES				
1. WEARING SURFACE			G	45. CHANNEL & CHANNEL PROT.	a. WATERWAY		G
					b. ALIGNMENT		G
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58			8		c. SCOUR		G
			F		d. SLOPE PROT., RIP-RAP, DIKES, ETC.		G
3. RAILING				50. APPROACH ROADWAY CONDITION			G
a. CONCRETE			F	51. APPROACH SLABS			
b. TIMBER				52. PAINT SYSTEM CODE A			F
c. ALUMINUM				53. UTILITIES			
d. STEEL			F	54. RESPONSE TO LIVE LOAD			G
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			F	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				61. PROMPT-ACTION NOTICE ISSUED			NO
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			7	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		5	
10. LONGITUDINAL BEAMS OR GIRDERS			G	b. SUPERSTRUCTURE ITEM 59		7	
11. LONGITUDINAL JOIST OR STRINGERS				c. SUBSTRUCTURE ITEM 60		5	
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S			G	d. CHANNEL & CHANNEL PROT. ITEM 61		7	
13. END DIAP'S, CURTAIN WALLS, & CONN'S			F	71. SI&A FIELD APPRAISAL RATINGS			
14. FLOOR BEAMS AND CONNECTIONS				a. WATERWAY ADAQUACY		7	
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)			F	b. APPR. RDWY. ALIGNMENT		7	
16. DRAINAGE SYSTEM (ON STRUCTURE)			F				
17. MOVABLE SPAN MACHINERY				72. FIELD SCOUR EVALUATION			G
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)				USE OF INSP. ACCESSIBILITY EQUIPMENT			
35. TIM SUB STR.				SNOOPER (CODE S, 4, OR N)		HRS	NO
a. ABUT. & INT. BENT CAPS & RISERS				LADDER			YES
b. PILES, POST, SILLS, & BRACING				BUCKET TRUCK			NO
c. BULKHEADS, WING'S, & TIE BACKS				BOAT			NO
36. CONC SUB STR.				OTHER			NO
a. ABUT. & INT. BENT CAPS			F				
b. ABUT. & BENT COL'S BREASTWALLS							
c. ABUT. & INT. BENT PILES			F				
d. BACKWALLS, WING'S, RETAIN. WALLS			G				
e. ABUT. & BENT FOOTINGS & SILLS							
37. STEEL SUB STR.				SPECIAL INSPECTION REQUESTED FOR			
a. ABUT. & INT. BENT CAPS & RISERS							
b. PILES, BRACING, AND BULKHEADS			F				
38. FOUNDATION PILES TYPE MATERIAL				NOTE			
39. SLOPE PROT., RIP-RAP (INCLUDE DRAINAGE)			G				
40. FENDER SYSTEMS				80. INSPECTED BY:		<i>William C. Mg</i>	
41. DRIFT			G	81. REVIEWED BY:			

Bridge I&A Form 1(82)H		<b>FIELD INSPECTION REPORT</b> <u>Bridge Inspection &amp; Analysis</u>	
State of North Carolina Dept. of Transportation Division of Highways			
Team Leader <b>WILLIS C MAY</b>			
Assisted By <b>WTW</b>			
Item No.	Grade		
2a	F	<p>CONCRETE DECK-- BOTTOM OF DECK IN ALL SPANS HAS NUMEROUS HAIRLINE CRACKS. SPAN 1- BAY 3 AT END BENT 1 BOTTOM OF DECK HAS TWO DIAGONAL HAIRLINE CRACK WITH EFFLORESCENCE. SPAN 2- BOTTOM OF DECK IN BAY 1 HAS TWO HAIRLINE DIAGONAL CRACKS WITH RUST STAINS. SPAN 2 RIGHT OVERHANG HAS NUMEROUS HAIRLINE CRACKS WITH EFFLORESCENCE. SPAN 3- BAY 3 BOTTOM OF DECK HAS TRANSVERSE HAIRLINE CRACK WITH EFFLORESCENCE. FEW OTHERS SIMILAR THROUGHOUT BRIDGE.</p>	
3a	F	<p>CONCRETE RAILING-- SCALING WITH EXPOSED COARSE AGGREGATE IN FACES. MOST RAIL POSTS ARE HAIRLINE MAP CRACKED IN TOP OF POSTS . SPAN 1- LEFT RAIL POST # 2 SPALLED. LEFT RAIL POST # 8 AT BENT 1 SPALLED. SPAN 4- TOP OF RIGHT RAIL POST # 4 IS CRACKED .</p>	
3d	F	<p>STEEL RAILS-- SCRAPE AND COLLISION DAMAGE IN SPOTS THROUGHOUT. 20 FT. OF GUARDRAIL DAMAGE AT LEFT SIDE OF SPANS 2, 3, &amp; 4 60 FT. OF GUARDRAIL DAMAGE AT LEFT SIDE OF SPAN 5 40 FT. OF GUARDRAIL DAMAGE AT RIGHT SIDE OF SPAN 5</p>	
6d	G	<p>STANDARD JOINTS-- RESEALED SINCE LAST INSPECTION.</p>	
10	G	<p>LONGITUDINAL BEAMS-- PEELING PAINT AND SURFACE RUST WITH NO MEASUREABLE SECTION LOSS THROUGHOUT. MOST BEAMS HAVE RUST AND UP TO 1/8 IN. SECTION LOSS 1/2 IN. WIDE IN THE WEB AROUND THE END DIAPHRAGMS. SPAN 1- SECTION LOSS THE LEFT BOTTOM FLANGE OF BEAM 3 SPAN 1 OVER BENT 1, 4 IN. LONG WITH 1/2 IN. REMAINING.</p>	
13	F	<p>END DIAPHRAGMS-- BENT 1- SPAN 2 BAY 2 DIAPHRAGM HAS VERTICAL HAIRLINE CRACK IN FACE AND CONTINUES ACROSS BOTTOM. BENT 2- SPAN 2 BAY 2 DIAPHRAGM HAS VERTICAL HAIRLINE CRACK IN FACE AND CONTINUES ACROSS BOTTOM. SIMILAR ON SPAN 3 SIDE. SIMILAR AT BENT 4 SPAN 4 BAY 1. BENT 4 WOOD SHORING LEFT IN PLACE UNDER BAY 2 &amp; 3 END DIAPHRAGMS AT BENT 4 ADJACENT TO BM 3 WHICH HAS A CAP REPAIR UNDERNEATH BEAM. PHOTO</p>	

Bridge I&A Form 1(82)H		<b>FIELD INSPECTION REPORT</b> <u>Bridge Inspection &amp; Analysis</u>	
State of North Carolina Dept. of Transportation Division of Highways			
Team Leader <b>WILLIS C MAY</b>			
Assisted By <b>WTW</b>			
Item No.	Grade		
15	F	BEARING ASSEMBLIES-- END BENT 1- BEARINGS RUSTED AND FLAKING AT BEAM 3. MOST BEARINGS SIMILAR THROUGHOUT BRIDGE. ANCHOR BOLTS HAVE BEEN REPAIRED BY WELDING A PLATE TO THE MASONRY PLATE AND STUDDED TO CAP.	
36a	F	CONCRETE CAPS-- END BENT 1- DIAGONAL HAIRLINE CRACK WITH EFFLORESCENCE IN FACE OF CAP AT BAY 2, LEFT END AND RIGHT END. BENT 3- SPAN 3 FACE OF CAP HAS VERTICAL HAIRLINE CRACK WITH EFFLORESCENCE UNDER BEAM 3. BENT 4- VERTICAL CRACK IN REPAIR FOR SPALL IN FACE OF CAP SPAN 4 SIDE UNDER BEAM 3. SPALL WITH EXPOSED ANCHOR BOLT IN SPAN 4 SIDE OF CAP AT RIGHT END HAS BEEN REPAIRED SINCE LAST INSPECTION. END BENT 2- HORIZONTAL CRACK UP TO 1/16 IN UNDER BAY 1. DIAGONAL HAIRLINE CRACK IN FACE UNDER BEAM 2.	
36c	F	CONCRETE ENCASED PILES-- H-PILES ENCASED IN CONCRETE UP TO 1/8 IN. DEEP WATER ABRASION WITH COARSE AGGREGATE IN FLOWZONE OF PILES IN WATERWAY.	
37b	F	STEEL PILES-- BENT 7- STEEL H-PILES ARE EXPOSED UNDER THE BOTTOM OF CONCRETE ENCASEMENTS WITH UP TO 1/16 IN. SECTION LOSS IN FLANGES IN EXPOSED AREAS.	
39	G	SLOPE PROTECTION-- VEGETATION AND SMALL TREES ON END SLOPES.	
50	G	APPROACH ROADWAY CONDITION-- TRANSVERSE CRACKS IN APPROACH ASPHALT.	

# BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 500100

County JOHNSTON


Date: 05/18/2011


**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 CRACK AT BOTH END BENTS AND ALONG BENT 3 JOINT.	
2910	Manual Brush and Tree Control	LF	200	VEGETATION AROUND ENDS OF BRIDGE.	
3318	Maint to Concrete Handrail	LF	5	SPALLS IN TOPS OF CONCRETE RAILS.	
3322	Maint to Steel Handrail	LF	120	GUARDRAIL DAMAGE ALONG LEFT AND RIGHT SIDE OF BRIDGE.	
3342	Clean and Paint Structural Steel	SF	200	BERINGS ARE RUSTY, RUST AND SECTION LOSS 1/2 IN. WIDE AROUND END DIAPHRAGMS, HIGH-PILES EXPOSED AND RUSTY AT BENT 7.	

**Key**

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined



TRANSVERSE CRACKING IN WEARING SURFACE OVER END BENT 2



TRANSVERSE CRACK IN WEARING SURFACE OVER END BENT 1



SECTION LOSS IN THE BOTTOM FLANGE OF BEAM 3 IN SPAN 1 OVER BENT 1



SECTION LOSS IN THE WEB OF BEAM 3 AT JUNCTION OF DIAPHRAGM SPAN 1 OVER BENT 1





HAIRLINE DIAGONAL CRACKS IN BOTTOM OF DECK OF SPAN 2 BAY 1 AT BENT 2



BOTTOM OF PILE 7 CONCRETE ENCASEMENT UNDERMINED WITH SECTION LOSS TO EXPOSED STEEL H-PILE



PILES IN WATERWAY HAVE WATER ABRASION WITH THE EXPOSED AGGREGATE IN FLOWZONE.

BRIDGE MANAGEMENT UNIT  
DATA ON EXISTING STRUCTURE Run Date: 06/08/2011

COUNTY :	DIV :	DIST :	STRUCTURE NUMBER :	LENGTH :
JOHNSTON	4	3	500100	401 FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
I95	NEUSE RIVER

LOCATED :	BRIDGE NAME :	CITY :
1.8MI.N.JCT.I95,US301&701		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
11	FA	NFA	1950 2009	LT 333 RT 333

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1957	SHC	8.12339		HS 20+MOD

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :
			TAN.	120	ON 2 UNDER

NAVIGATION :	HT. CRN. TO BED :	WATER DEPTH :
VC 0.0 FT HC 0.0 FT	38 FT	4 FT

SUPERSTRUCTURE : RC FLOOR ON I-BEAMS

SUBSTRUCTURE : EBTS&IBTS:RC CAPS ON CONC.ENCASED H-PILES

SPANS : 1@50'3;6@50';1@50'3

BEAMS OR GIRDERS : 4 LINES 33 I-BEAMS @ 8'CENTERS

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
6.75RC/4 AWS		31.6 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
28.2 FT	31.4 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 :	DATE
HS-27	HS-45	BEAM INT.	SV TTST	01/01/0001

SYSTEM :	GREEN LINE ROUTE :
Primary Interstate	Y

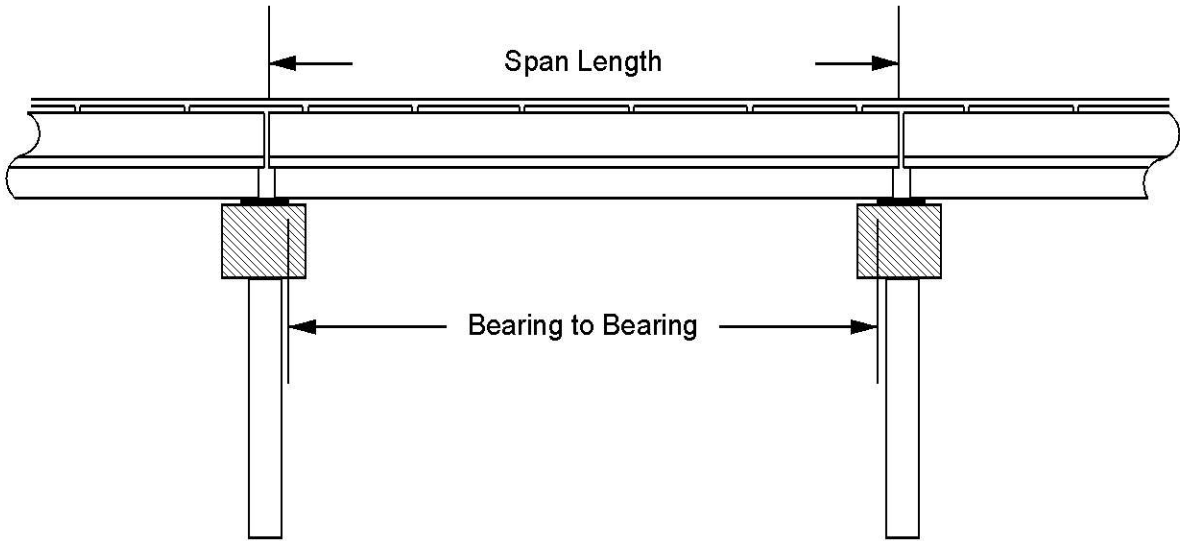
2ND OPENING :	3RD OPENING :	4TH OPENING :	5TH OPENING :

REMARKS :

# Structure Data Worksheet

Spans

County: JOHNSTON      Structure No: 500100      Date: 05/18/2011      Inspected By: WCM



Span No	Span Length	Bearing to Bearing	Comments
1	50.250		
2	50.0		
3	50.0		
4	50.0		
5	50.0		
6	50.0		
7	50.0		
8	50.250		

# Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 500100 County: JOHNSTON Date: 05/18/2011 By: WCM

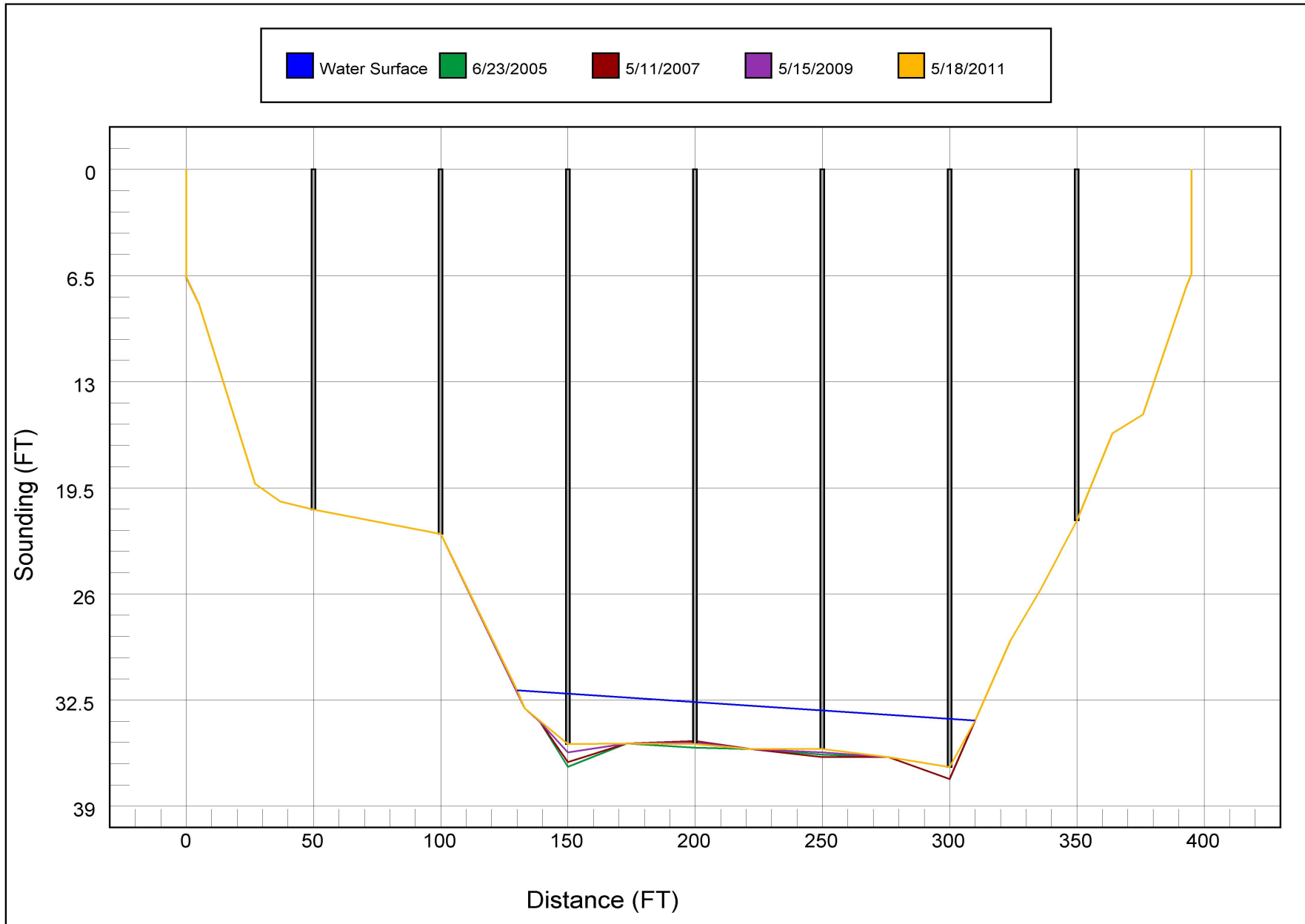
Record sounding from top of rail. Other location if needed: \_\_\_\_\_

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			
0.1	6.6	TOP OF CAP			
5	8.25	GAC	5	8.083	TOC
27	19.25	TOS			
37	20.333				
50	20.833	BENT 1	50	20.833	BENT 1
100	22.333	BENT 2	100	22.75	BENT 2
130	31.9	Water Surface/Water Edge (WSWE)			
133	33				
150	35.2	BENT 3	150	35.3	BENT 3
173	35.167				
200	35.2	BENT 4	200	36.1	BENT 4
222	35.5				
250	35.5	BENT 5	250	36.4	BENT 5
276	36				
300	36.6	BENT 6	300	38.5	BENT 6
310	33.75	Water Surface/Water Edge (WSWE)			
324	28.833				
336	25.667				
350	21.5	BENT 7	350	17.75	BENT 7
364	16.167				
376	15	TOS			
393	7.167	GAC	393	7.5	GAC
395	6.417	TOC			
395.1	0	TOP OF RAIL			

### STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



# Bridge Inspection Field Sketch

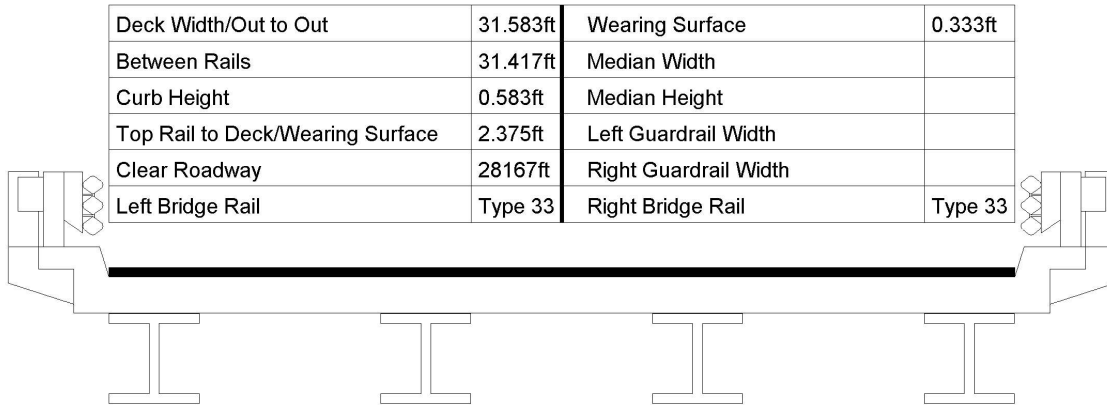


Roadway	24ft Wide	2 Paved Lanes	Looking North
Left Shoulder	10ft Wide	4ft Paved	6ft Unpaved
Right Shoulder	10ft Wide	10ft Paved	
Left Guardrail	10ft from road		
Right Guardrail	10ft from road		

Checked By: WTW    5/18/11

<b>Title</b>		<b>Description</b>	
APPROACH ROADWAY - NBL		LOOKING NORTH	
<b>Bridge No:</b> 500100	<b>Drawn By:</b> A. D. OSBORNE	<b>Date:</b> 06/21/2005	<b>File Name:</b> S0154000024

# Bridge Inspection Field Sketch



Measurements for Span #	1	ALL SPANS SIMILAR	
Deck Thickness	0.562	Left Overhang	3.708
Top of Rail to Bottom of Beam	5.895	Right Overhang	3.708

Beam No	Beam Type	Spacing	Comments
1	Steel I Beam	8.0ft	33" IBEAM
2	Steel I Beam	8.0ft	33" IBEAM
3	Steel I Beam	8.0ft	33" IBEAM
4	Steel I Beam		33" IBEAM

**1 1/2" ASPHALT OVERLAY ADDED STARTING 6" FROM CURBLINES**

Checked By: WTW    5/18/11

**Title**

TYPICAL SECTION

**Description**

4 LINES STEEL I - BEAMS

Bridge No: 500100

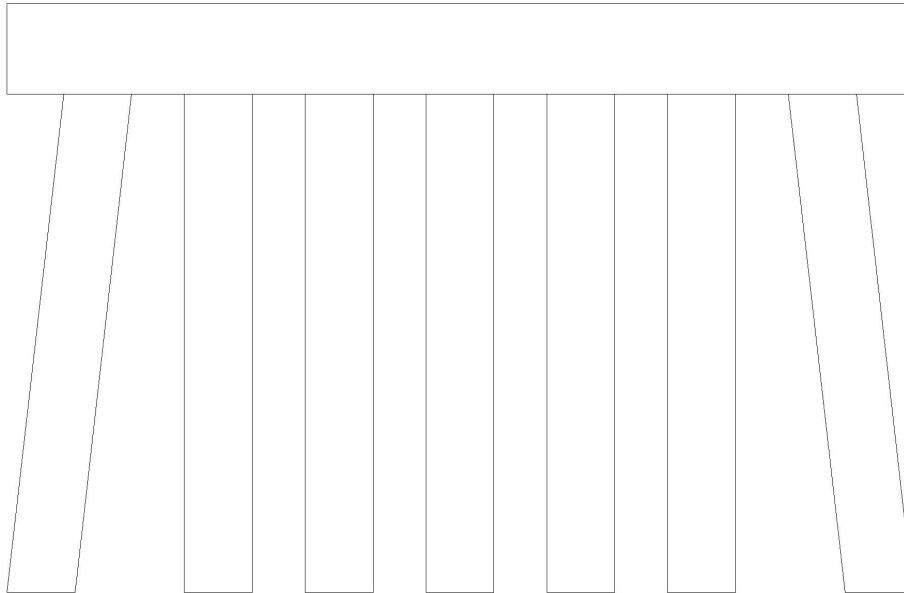
Drawn By: A. D. OSBORNE

Date: 06/21/2005

File Name: S015400025



# Bridge Inspection Field Sketch



\* NOTE: PILES ARE CONCRETE-ENCASED STEEL H-PILES

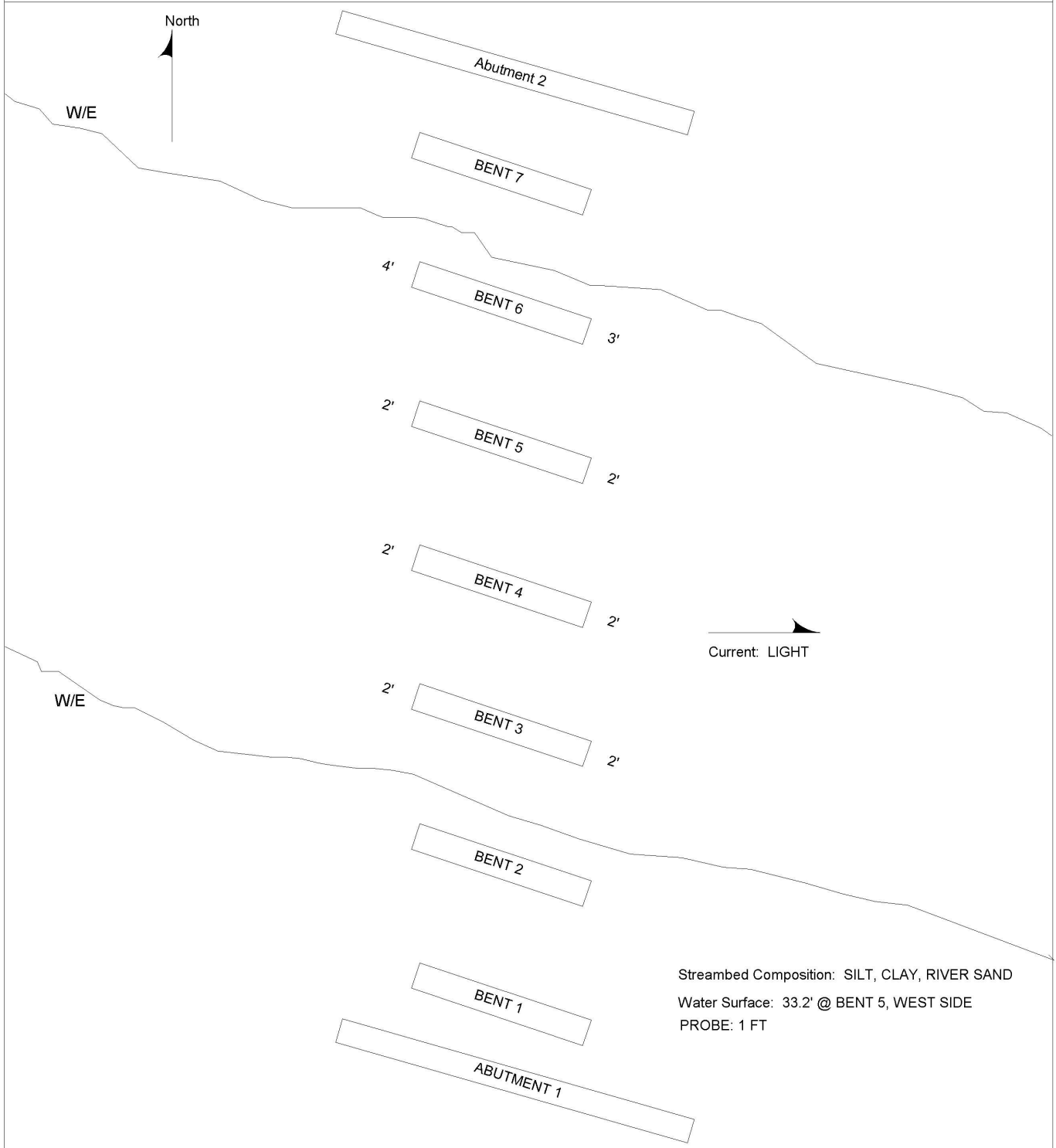
Bent #	7	Bents 2,3,4,5,6 similar	
Cap - Cast In Place			
Cap Size	31.167ft Long	2.667ft Wide	2.583ft High
Left Overhang	1.583ft	Lt Cap/Beam Overhang	
Right Overhang	1.583ft	Rt Cap/Beam Overhang	

File #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Steel	Pile Bent	4.667 FT		22x22 INCHES		Batter Pile
2	Steel	Pile Bent	4.667 FT		22x22 INCHES		Vertical
3	Steel	Pile Bent	4.667 FT		22x22 INCHES		Vertical
4	Steel	Pile Bent	4.667 FT		22x22 INCHES		Vertical
5	Steel	Pile Bent	4.667 FT		22x22 INCHES		Vertical
6	Steel	Pile Bent	4.667 FT		22x22 INCHES		Vertical
7	Steel	Pile Bent			22x22 INCHES		Batter Pile

Checked By: WTW    5/18/11

<b>Title</b>	<b>Description</b>
SUBSTRUCTURE	LOOKING SOUTH
Bridge No: 500100	Drawn By:
	Date: 06/22/2005
	File Name: S0018000413

# Bridge Inspection Field Sketch



<b>Title</b> PLAN VIEW		<b>Description</b> BRIDGE AND WATERWAY	
Bridge No: 500100	Drawn By: WTW	Date: 09/19/2005	File Name: S0158000027

## Bridge Inspection Field Sketch

6/21/05

P1	P2	P3	P4	P5	P6	P7
0"	0"	6"	8" @	15" @	26" @	32" @
			F-1,2,4	F-1,2,4	F-1,2,4	F-1,2,4

STEEL PILES NOT EXPOSED 2009 INSPECTION

<b>Title</b>		<b>Description</b>	
VERTICAL EXPOSURE SHEET		BT.#7 VERTICAL EXPOSURE.	
<b>Bridge No:</b> 500100	<b>Drawn By:</b>	<b>Date:</b> 09/19/2005	<b>File Name:</b> S0158000028



WEST PROFILE



APPROACH 2



LOOKING SOUTH



JOINT AT BENT 7



JOINT AT BENT 6



JOINT AT BENT 5



JOINT AT BENT 4



JOINT AT BENT 3



JOINT AT BENT 1



SPAN 1 OVERVIEW - ALL SPANS SIMILAR





APPROACH 1



LOOKING NORTH



END BENT 1 OVERVIEW



BENT 1 SPAN 2 SIDE, OTHER BENTS SIMILAR



SUPERSTRUCTURE OVERVIEW



ANCHOR BOLT REPAIR AT BEAM 4 OVER BENT 2 - OTHER REPAIRS SIMILAR AT THIS BENT



SPALL REPAIR IN RIGHT END OF CAP AT BENT 4



SPALL REPAIR IN FACE OF CAP AT BENT 4 BAY 3 SPAN 4 SIDE



SHORING ADDED AT BENT 4 BAY 2



SHORING ADDED AT BENT 4 BAY 3



END BENT 2 OVERVIEW



DELETE



LOOKING WEST UPSTREAM UNDER THE SOUTHBOUND STRUCTURE



SUPERSTRUCTURE OVER END OF CAP



LOOKING EAST DOWNSTREAM