



N.C. DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 BRIDGE MAINTENANCE UNIT

Attention:

BRIDGE INSPECTION REPORT

TYPE OF INSPECTION Routine

COUNTY HARNETT BRIDGE NUMBER 420081 INSPECTION CYCLE 2 YRS

ROUTE SR1709 ACROSS I95 M.P. 0

LOCATION 0.8 MI.W.JCT.SR1808

SUPERSTRUCTURE REINF CONC SLAB ON PPC GIRDERS

SUBSTRUCTURE ABUTMENTS:RENIF.CONC;INT.BTS:RC CAPS/PPC PILES

SPANS 1@65'4";2@66';1@65'8

LONGITUDE 78° 33' 51.5" 78° 33' 30.9" LATITUDE 35° 20' 61.1" 35° 20' 36.7"

PRESENT CONDITION POOR INVENTORY RATING H5-29

INSPECTION DATE 04/19/2006 OPERATING RATING H5-48

PRESENT POSTING Not Posted PROPOSED POSTING N.P.

COMPUTER UPDATE 6-22-06 ANALYSIS DATE 6-19-06

POSTING LETTER DATE _____ SUFFICIENCY RATING _____

OTHER SIGNS PRESENT LOW CLEARANCE SIGNS



Photo Looking

SIGN NOTICE ISSUED FOR	NUMBER 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 420081
(8) STRUCTURE NUMBER (FEDERAL) 000000000850081
(5) INVENTORY ROUTE (ON/UNDER) - ON = 131017090
(2) STATE HIGHWAY DEPARTMENT DISTRICT 06
(3) COUNTY CODE 085 (4) PLACE CODE
(6) FEATURES INTERSECTED - I95
(7) FACILITY CARRIED - SR1709
(9) LOCATION - 0.8 MI.W.JCT.SR1808
(11) MILEPOINT 000.000
(16) LAT 35 D 20 M 36.75 (17) LONG 078 D 33 M 30.95
(98) BORDER BRIDGE STATE CODE PCT SHARE
(99) BORDER BRIDGE STRUCTURE NO. #

***** STRUCTURE TYPE AND MATERIAL *****

(43) STRUCTURE TYPE MAIN: PRESTRESSED CONCRETE
TYPE - STRINGER/MBEAM OR GIRDER CODE 502
(44) STRUCTURE TYPE APPR: OTHER
TYPE - OTHER CODE 000
(45) NUMBER OF SPANS IN MAIN UNIT 004
(46) NUMBER OF APPROACH SPANS 0000
(107) DECK STRUCTURE TYPE - CONCRETE C-I-P 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

***** AGE AND SERVICE *****

(27) YEAR BUILT 1958
(106) YEAR RECONSTRUCTED 0000
(42) TYPE OF SERVICE: ON - HIGHWAY
UNDER - HIGHWAY CODE 11
(28) LANES: ON STRUCTURE 02 UNDER STRUCTURE 04
(29) AVERAGE DAILY TRAFFIC 001000
(30) YEAR OF ADT 2003 (109) TRUCK ADT PCT 06
(19) BYPASS, DETOUR LENGTH 08 MI

***** GEOMETRIC DATA *****

(48) LENGTH OF MAXIMUM SPAN 0066 FT
(49) STRUCTURE LENGTH 000263 FT
(50) CURB OR SIDEWALK: LEFT 00.2 FT RIGHT 00.2 FT
(51) BRIDGE ROADWAY WIDTH CURB TO CURB 028.0 FT
(52) DECK WIDTH OUT TO OUT 031.4 FT
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 024 FT
(33) BRIDGE MEDIAN - NO MEDIAN CODE 0
(34) SKEW 40 DEG (35) STRUCTURE FLARED NO
(10) INVENTORY ROUTE MIN VERT CLEAR 99 FT 99 IN
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR 28.0 FT
(53) MIN VERT CLEAR OVER BRIDGE RDWY 99 FT 99 IN
(54) MIN VERT UNDERCLEAR REF - HIGHWAY 14 FT 05 IN
(55) MIN LAT UNDERCLEAR RT REF - HIGHWAY 10.0 FT
(56) MIN LAT UNDERCLEAR LT 13.8 FT

***** NAVIGATION DATA *****

(38) NAVIGATION CONTROL - N.A., NO WATERWAY CODE N
(111) PIER PROTECTION - NOT APPLICABLE CODE
(39) NAVIGATION VERTICAL CLEARANCE 000 FT
(116) VERT-LIFT BRIDGE NAV MIN VERT CLEAR FT
(40) NAVIGATION HORIZONTAL CLEARANCE 0000 FT

SUFFICIENCY RATING = 73.7
STATUS = FUNCTIONALLY OBSOLETE

***** CLASSIFICATION ***** CODE

(112) NBIS BRIDGE LENGTH - YES
(104) HIGHWAY SYSTEM - NON NHS ROUTE 0
(26) FUNCTIONAL CLASS - LOCAL 09
(100) DEFENSE HIGHWAY - NOT DEFENSE HWY 0
(101) PARALLEL STRUCTURE - NONE EXISTS 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
(21) MAINTAIN - STATE HIGHWAY AGENCY 01
(22) OWNER - STATE HIGHWAY AGENCY 01
(37) HISTORICAL SIGNIFICANCE - NOT ELIGIBLE 5

***** CONDITION ***** CODE

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

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

(31) DESIGN LOAD - HS 15 3
(64) OPERATING RATING - LF HS-48 186
(66) INVENTORY RATING - LF HS-29 152
(70) BRIDGE POSTING - NO POSTING REQUIRED 5
(41) STRUCTURE OPEN, POSTED, OR CLOSED A
DESCRIPTION - OPEN, NO RESTRICTION

***** APPRAISAL ***** CODE

(67) STRUCTURAL EVALUATION 5
(68) DECK GEOMETRY 5
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL 2
(71) WATERWAY ADEQUACY N
(72) APPROACH ROADWAY ALIGNMENT 8
(36) TRAFFIC SAFETY FEATURES 0011
(113) SCOUR CRITICAL BRIDGES N

***** PROPOSED IMPROVEMENTS *****

(75) TYPE OF WORK - REPLACE FOR DEFICIENCY CODE 311
(76) LENGTH OF STRUCTURE IMPROVEMENT 000263 FT
(94) BRIDGE IMPROVEMENT COST \$ 617,000
(95) ROADWAY IMPROVEMENT COST \$ 154,000
(96) TOTAL PROJECT COST \$ 926,000
(97) YEAR OF IMPROVEMENT COST ESTIMATE 2006
(114) FUTURE ADT 002000 (115) YEAR FUTURE ADT 2025

***** INSPECTIONS *****

(90) INSPECTION DATE 04/2006 (91) FREQUENCY 24 MO
(92) CRITICAL FEATURE INSPECTION: (93) CFI DATE
A) FRACTURE CRIT DETAIL - NO - MO A)
B) UNDERWATER INSP - NO - MO B)
C) OTHER SPECIAL INSP - NO - MO C)
SCOUR - NOT EVALUATED

***** IDENTIFICATION *****

(1) STATE NAME - NORTH CAROLINA BRIDGE 420081
(8) STRUCTURE NUMBER (FEDERAL) 00000000850081
(5) INVENTORY ROUTE (ON/UNDER) - UNDER = 211000950
(2) STATE HIGHWAY DEPARTMENT DISTRICT 06
(3) COUNTY CODE 085 (4) PLACE CODE
(6) FEATURES INTERSECTED -
(7) FACILITY CARRIED - SR1709
(9) LOCATION - 0.8 MI.W.JCT.SR1808
(11) MILEPOINT 076.900
(16) LAT 35 D 20 M 36.7S (17) LONG 078 D 33 M 30.9S
(98) BORDER BRIDGE STATE CODE PCT SHARE
(99) BORDER BRIDGE STRUCTURE NO. #

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A) TYPE OF WEARING SURFACE - CONCRETE CODE 1
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C) TYPE OF DECK PROTECTION - NONE CODE 0

***** AGE AND SERVICE *****

(27) YEAR BUILT 1958
(106) YEAR RECONSTRUCTED 0000
(42) TYPE OF SERVICE: ON - HIGHWAY
UNDER - HIGHWAY CODE 11
(28) LANES: ON STRUCTURE 02 UNDER STRUCTURE 04
(29) AVERAGE DAILY TRAFFIC 046000
(30) YEAR OF ADT 2004 (109) TRUCK ADT PCT 00
(19) BYPASS, DETOUR LENGTH 00 MI

***** GEOMETRIC DATA *****

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(10) INVENTORY ROUTE MIN VERT CLEAR 15 FT 03 IN
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR 45.3 FT
(53) MIN VERT CLEAR OVER BRIDGE RDWY 99 FT 99 IN
(54) MIN VERT UNDERCLEAR REF - HIGHWAY 14 FT 05 IN
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SUFFICIENCY RATING = 73.7
STATUS =

***** CLASSIFICATION ***** CODE

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(26) FUNCTIONAL CLASS - PRINCIPAL ARTERIAL- INTER 01
(100) DEFENSE HIGHWAY - YES DEFENSE HWY 1
(101) PARALLEL STRUCTURE - NONE EXISTS N
(102) DIRECTION OF TRAFFIC - 2-WAY TRAFFIC 2
(103) TEMPORARY STRUCTURE - NOT TEMPORARY
(110) DESIGNATED NATIONAL NETWORK - PART OF NETWORK 1
(20) TOLL - ON FREE ROAD 3
(21) MAINTAIN - STATE HIGHWAY AGENCY 01
(22) OWNER - STATE HIGHWAY AGENCY 01
(37) HISTORICAL SIGNIFICANCE - NOT ELIGIBLE 5

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B) UNDERWATER INSP - NO - MO B)
C) OTHER SPECIAL INSP - NO - MO C)
SCOUR - NOT EVALUATED

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE ROUTINE

BRIDGE NO. 420081 COUNTY HARNETT

ROUTE SR1709

OVER 195

STRUCTURE TYPE REINF CONC SLAB ON PPC GIRDERS

ROUTE ORIENTATION W - E

SPANS 1@65'4;2@66';1@65'8

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

INSPECTION ITEM			ITEM 61			
DECK ITEMS		GRADES	ITEM 61			
1. WEARING SURFACE			45 CHANNEL & CHANNEL PROT.	a. WATERWAY		
				b. ALIGNMENT		
				c. SCOUR		
				d. SLOPE PROT., RIP-RAP, DIKES, ETC.		
2 DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58	a. CONCRETE	4	5	50 APPROACH ROADWAY CONDITION		6
	b. TIMBER			51 APPROACH SLABS		
	c. STEEL PLANK			52 PAINT SYSTEM		CODE
	d. OPEN GRID			53 UTILITIES		
3 RAILING	a. CONCRETE		8	54 RESPONSE TO LIVE LOAD		8
	b. TIMBER			55 ESTIMATED REMAINING LIFE		14
	c. ALUMINUM					
	d. STEEL					
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	a. STEEL PL OR FINGER			61 PROMPT-ACTION NOTICE ISSUED		No
	b. MISC PREFAB DEVICES			62 PRESENTLY POSTED		No
	c. COMPRESSION SEAL			63 TOT. FIELD INSP TIME (INCLUDE WRITE UP)(M/H)		8
	d. STANDARD JOINTS	3	4	64 TOTAL SNOOPER INSP. TIME (HRS)		
	e. OPEN JOINTS			65 TOTAL TRAFFIC CONTROL TIME (M/H)		
7. DECK DEBRIS (INCLUDE 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			5	b. SUPERSTRUCTURE	ITEM 59	5
11. LONGITUDINAL JOIST OR STRINGERS				c. SUBSTRUCTURE	ITEM 60	5
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S			7	d. CHANNEL & CHANNEL PROT.	ITEM 61	NA
13. END DIAP'S, CURTAIN WALLS, & CONN'S			5			
14. FLOOR BEAMS AND CONNECTIONS				71 SI&A FIELD APPRAISAL RATINGS		
15. BEARING ASSEMBLIES (INCLUDE MISALIGN)			4	a. WATERWAY ADAQUACY		NA
16. DRAINAGE SYSTEM (ON STRUCTURE)			6	b. APPR. RDWY. ALIGNMENT		8
17. MOVABLE SPAN MACHINERY						
				72 FIELD SCOUR EVALUATION		
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)						
35. TIM SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS			USE OF INSP. ACCESSIBILITY EQUIPMENT		
	b. PILES, POST, SILLS, & BRACING			SNOOPER (CODE P, S, 4, OR N)		
	c. BULKHEADS, WING'S & TIE BACKS			LADDER		Yes
36. CONC SUB STR.	a. ABUT. & INT. BENT CAPS	5		OVERSIDE LADDER		
	b. ABUT. & BENT COL'S BREASTWALLS	8		BUCKET TRUCK		
	c. ABUT. & INT. BENT PILES			BOAT		
	d. BACKWALLS, WING'S, RETAIN. WLLS	8		OTHER		
	e. ABUT. & BENT FOOTINGS & SILLS	8				
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)			8			
40 FENDER SYSTEMS				80 INSPECTED BY:		<i>EC Blake</i>
41 DRIFT				81 REVIEWED BY		

State of North Carolina
 Dept. of Transportation
 Division of Highways

FIELD INSPECTION REPORT

Bridge Inspection & Analysis

Team Leader: ECB

Assisted by: WBN

Item No	Grade	
2a	5	BOTTOM OF DECK SPAN 1 RIGHT OVERHANG SPALLED WITH REBAR EXPOSED OTHER SPANS SIMILAR BOD SPAN 1 BAY 4 TRANS CRACKS WITH EFFLO OTHER BAYS SIMILAR TOP OF DECK SPAN 1 DIAGONAL CRACKS OTHER SPANS SIMILAR TOP OF DECK SPAN 1 CRACKS SCALING ROUGH WITH SMALL VOIDS ALL SPANS SIMILAR TOP OF DECK SPAN 4 AT PIER 3 JOINT D SHAPED SPALLED . ONE SPALL IN EBL AT PIER 3 24 INCHES LONG X 6 INCHES W X 1 INCH DEEP IN SPAN 4.
4	6	THERE IS A AREA OF DELAMINATION IN THE LEFT CURB SPAN 4, AT PIER 3.
6d	4	EXPANSION JOINT MATERIAL CRACKED SETTLED AND MISSING (PHOTO AT PIER 1) OTHERS SIMILAR.
7	6	DEBRIS ALONG CURBS SAND AND GRAVEL UP TO 4 INCHES X DEEP 24 INCHES WIDE SOME AREAS.
10	5	GIRDER 3 SPAN 3 SPALLED ON BOTTOM FROM HIGH LOAD.. GIRDER 5 SPAN 3 SPALLS FROM HIGH LOADS. UP TO 10 IN. LONG CABLE EXPOSED AND BROKEN ON CORNER. GIRDER 5 SPAN 3 SPALLS IN BOTTOM OF GIRDER. GIRDER 5 SPAN 3 BOTTOM RIGHT EDGE OF GIRDER SPALLED AND CHIPPED BY HIGH LOADS. GIRDERS 5 SPANS 3 AND 4 AT PIER 3 MAP CRACKING ON ENDS WITH EFFLO STAINS. GIRDER 5 SPAN 3 WITH CABLE BROKEN ON BOTTOM RIGHT EDGE. MAP CRACKS IN LEFT SIDE OF GIRDERS 2, 3 AND 5 AT ABUTMENT 1 AND AT THE RIGHT SIDE OF GIRDER 2, 3 AND 4 AT ABUTMENT 2. LONGIT CRACK 1/16 TO 1/8 INCH WITH CRACKS IN THE LEFT SIDE OF GIRDER 4 AT THE BEARING AREA ABUTMENT 1. THERE IS A 2 FT AREA OF MAP AND LONGIT CRACKS IN THE ENDS OF GIRDERS AT THE PIERS. THERE ARE SMALL CORNER SPALLS IN GIRDER 3, SPAN 3.
13	5	(PHOTO) BACKWALLS ABUTMENT 1 LEFT OF GIRDER 1 MAP CRACKS WITH EFFLO OTHERS SIMILAR. SMALL CORNER SPALL PIER 2, SPAN 3 AT LEFT SIDE OF GIRDER 5 AND AT THE RIGHT SIDE OF GIRDERS 2 AND 4, PIER 3. THERE ARE EFFLO DEPOSITS ALONG TOP OF THE END DIAPHRAGMS. CURTAIN WALLS (5) FAIR CONDITION. MAP CRACKS ALONG TEH TOP OF CURTAIN WALLS BAYS 1 THRU 4 AND THE RIGHT SIDE OF GIRDER 5 AT ABUTMENT 1 , LEFT SIDE OF GIRDER 1, ABUTMENT 2, RIGHT SIDE OF GIRDER 5, ABUTMENT 2. THERE IS A 1/16 INCH WIDE CRACK IN LEFT SIDE OF GIRDER 2 AND 4, ABUTMENT 2. THERE ARE EFFLO DEPOSITS ALONG THE CRACKS IN BAY 4, ABUTMENT 1. SMALL CORNER SPALL IN GIRDERS 2 AND 3 RIGHT SIDE AT ABUTMENT 2. 1/32 INC WIDE LONGIT CRACK IN BAYS 1, THRU 4 ABUTMENT 2.
15	4	BEARING 3 AT PIER 1 HEAVY RUSTING AND 1/4 INCH THICK FLAKING MOST BEARINGS SIMILAR. BEARING 5, ABUTMENT 1 HEAVY RUST WITH SECTION LOSS ALL BEARINGS AT ABUTMENTS SIMILAR.
16	6	APPROX 50 PERCENT DRAIN HOLES BLOCKED BY SAND AND SMALL DEBRIS ALONG CURBS.
36a	5	1/4 INCH WIDE LONGIT CRACK WITH DELAMINATION 42 INCHES L X 4 INCHES HIGH

Item No	Grade	
50	6	<p>X 4 INCHES WIDE UNDER GIRDER 1, ABUTMENT 1. ABUTMENT 1 CAP LONGIT CRACK UP TO 1/2 INCH WIDE X 15 INCHES HIGH X 8 INCHES WIDE UNDER BAY 4. ABUTMENT 2 CAP AT LEFT SIDE GIRDER 1 AND IN BAY 4 MAP CRACKING WITH EFFLO. ALSO VERTICAL H/L CRACK AT 24 INCH CENTERS.</p> <p>PIERS HAVE WATER STAINS. SURFACE MAP CRACKS IN RIGHT END OF PIERS 1 AND 2 CAPS. PIER 1 CAP SPAN 1 FACE LONGIT 1/8 INCH WIDE CRACK IN FACE OF PIERS 1 AND 2 CAPS AT PIERS 1, SPAN 1 AT GIRDERS 2, 4 AND 5; PIER 1, SPAN 2 AT GIRDER 4; PIER 2, SPAN 2 AT GIRDERS 2, 3 AND 4; PIER 2, SPAN 3 AT GIRDER 1 RIGHT SIDE AND GIRDER 5 LEFT SIDE. THERE ARE MAP CRACKS IN THE FACE OF PIER CAPS AT PIER 1, SPAN 1 AT GIRDER 5; PIER 1, SPAN 2 AT GIRDER 1 AND UNDER BAY 1; PIER 2, SPAN 2 AT GIRDERS 1 AND 5. THERE ARE VERTICAL H/L CRACKS IN PIER 3, SPAN 4 EXTENDING FROM THE BEARING AREA OF GIRDER 1.</p> <p>WEST APPROACH CRACKED AND SETTLED UP TO 1 IN. WITH ROUGH PAVEMENT</p>

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge 420081

County HARNETT

Date 04/19/2006

These Repairs Should Be Made Within Twelve Months From Date Of This Inspection

Function Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
560	Maintenance and repairs to concrete bridge floors	Sq-ft	8500	CRACKS AND SPALLS IN DECK.	
576	Maintenance of standard deck expansion joints	Lin-ft	93	EXPANSION JOINTS ARE CRACKED, SETTLED AND LEAKING.	
583	Maintenance of concrete pier and abutments	Man-Hours	320	CRACKS, SPALLS AND DELAMINATED CONCRETE IN PIERS AND ABUTMENTS.	
578	General Maintenance of superstructure	Man-Hours	320	CRACKS IN GIRDERS, GIRDER 5 WITH CABLE BROKEN IN SPAN 3, CRACKS IN CURTAIN WALLS.	
578	General Maintenance of superstructure	Man-Hours	120	BEARINGS HAVE HEAVY RUST AND FLAKING.	
602	Sweep or Washing	Man-Hours	80	SAND AND VEGETATION ALONG CURBS.	
556	Bridge approaches, surfacing or pavement replacement or repair	Man-Hours	80	APPROACHES CRACKED AND SETTLED, ROUGH.	



BOTTOM OF DECK SPAN 1, RIGHT OVERHANG SPALLED WITH REBAR EXPOSED, OTHER SPANS SIMILAR



BOD, SPAN 1, BAY 4 TRANS CRACKS WITH EFFLO OTHER BAYS SIMILAR



PIER 1 CAP SPAN 1 FACE LONGIT CRACKS, ALL CAPS SIMILAR



BEARING 3 AT PIER 1, HEAVY RUSTING AND FLAKING, ALL SIMILAR



ABUTMENT 1 CAP LONGIT CRACK UP TO 1/2 INCH WIDE UNDER BAY 4



BEARING 5, ABUTMENT 1, HEAVY RUST WITH SECTION LOSS, ALL BEARINGS AT ABUTMENTS SIMILAR.



WEST APPROACH CRACKED AND SETTLED UP TO 1 IN. WITH ROUGH PAVEMENT



TOP OF DECK SPAN 1, DIAGONAL CRACKS, OTHER SPANS SIMILAR

Bridge #: 420081

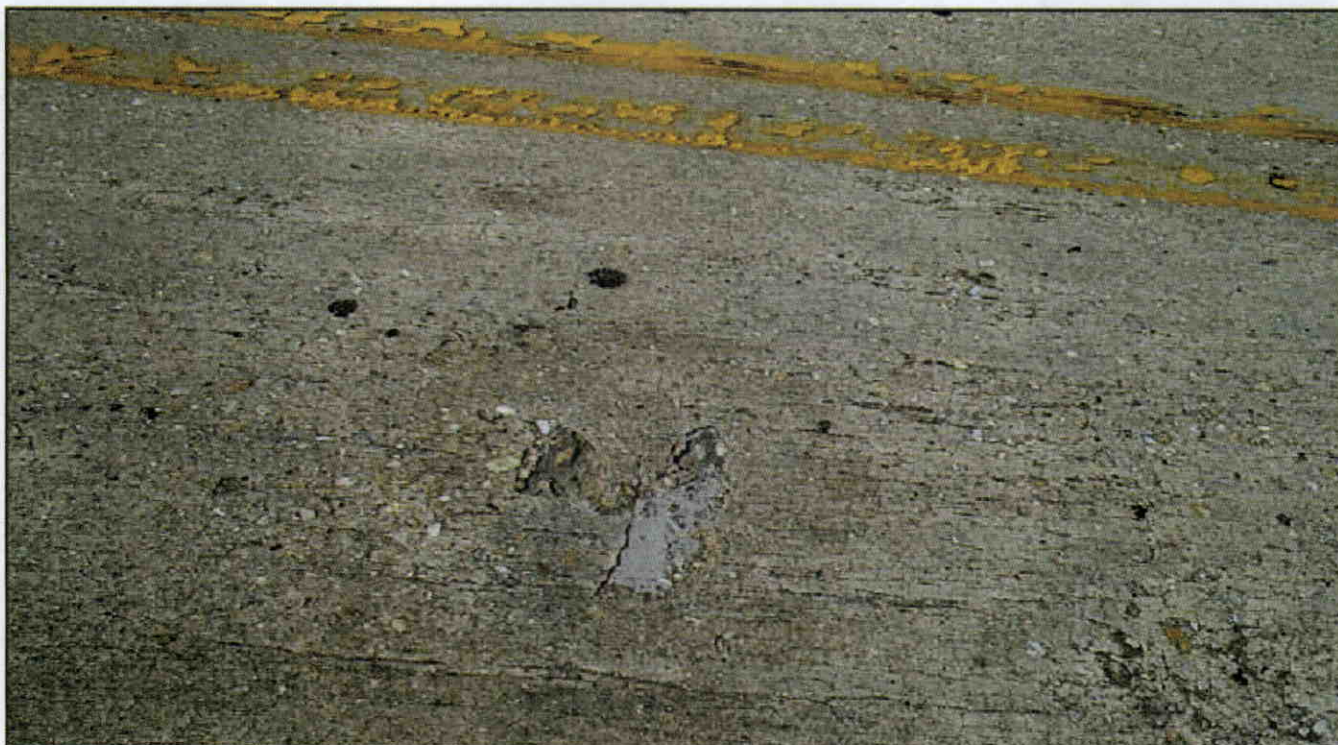
County: HARNETT

Date: 04/19/2006

Condition Photos



PIER 1 , EXPANSION JOINT MATERIAL MISSING, OTHERS SIMILAR



TOP OF DECK SPAN 1, CRACKS, SCALING ROUGH WITH SMALL VOIDS, ALL SPANS SIMILAR



DEBRIS ALONG CURBS, SAND AND GRAVEL UP TO 4 INCHES DEEP SOME AREAS.



TOP OF DECK SPAN 4 AT PIER 3 JOINT IN.D IN.SPALLED



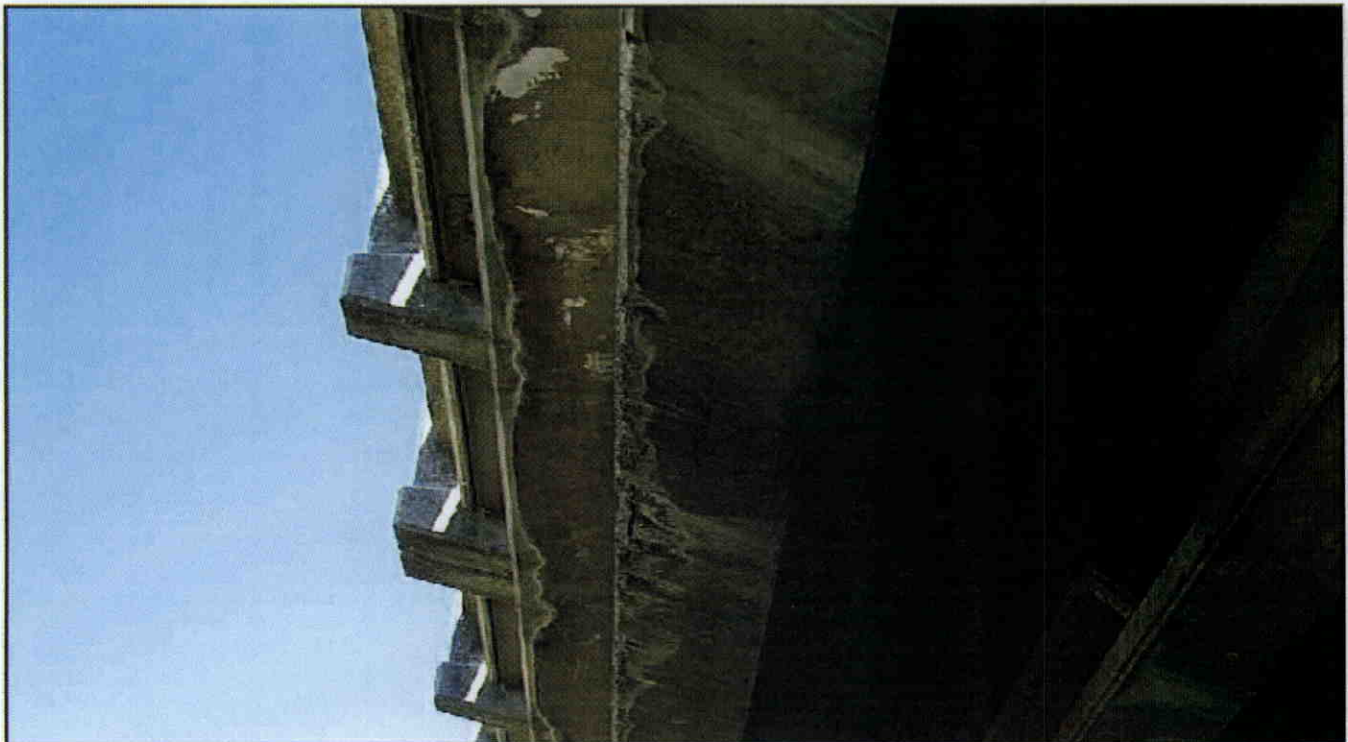
BACKWALLS ABUTMENT 1, LEFT OF GIRDER 1 MAP CRACKS WITH EFFLO, OTHERS SIMILAR.



ABUTMENT 2 CAP IN BAY 4 MAP CRACKING WITH EFFLO



GIRDER 3, SPAN 3 SPALLED ON BOTTOM FROM HIGH LOAD..



GIRDER 5, SPAN 3, SPALLS FROM HIGH LOADS. UP TO 10 IN. LONG CABLE EXPOSED AND BROKEN ON CORNER.



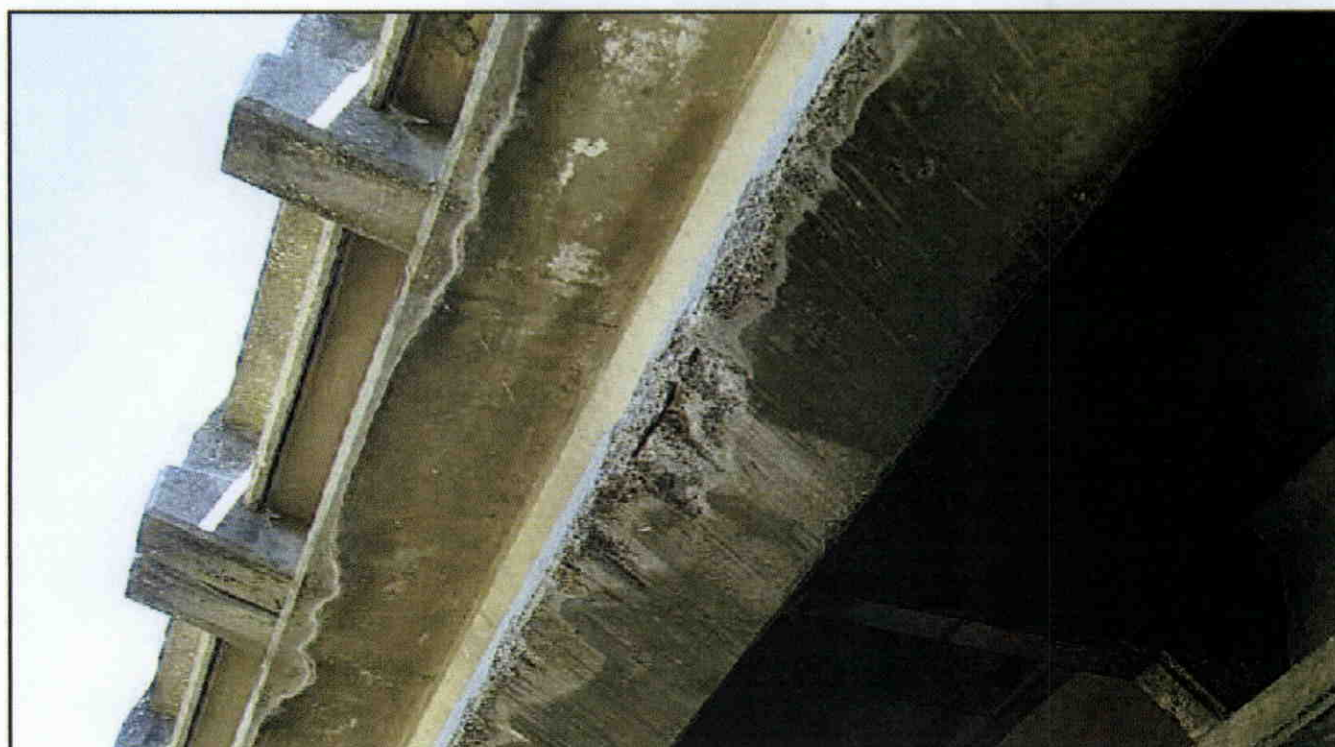
GIRDER 5, SPAN 3, SPALLS IN BOTTOM OF GIRDER.



GIRDER 5, SPAN 3 BOTTOM RIGHT EDGE OF GIRDER SPALLED AND CHIPPED BBY HIGH LOADS.



GIRDERS 5, SPANS 3 AND 4 AT PIER 3 MAP CRACKING ON ENDS WITH EFFLO STAINS.



GIRDER 5 SPAN 3 WITH CABLE BROKEN ON BOTTOM RIGHT EDGE.

B80028

BRIDGE MAINTENANCE UNIT
DATA ON EXISTING STRUCTURE

RUN DATE 06/22/06

COUNTY: HARNETT DIV.: 06 DIST.: 2 STRUCTURE NUMBER: 42 0081 LENGTH: 263 FEET

ROUTE CARRIED: SR1709 FEATURE INTERSECTED: 195

LOCATED: 0.8 MI. W. JCT. SR1808 BRIDGE NAME: -----

FUNC. CLASS: LR SYST.ON: NONFA SYST.UNDER: FA ADT & YR: 1000 03 RAIL TYPE: LT 213 RT 213

BUILT: 1958 BY: SHC PROJ: 4377 FED.AID PROJ: ----- DESIGN LOAD: HS-15

REHAB: ----- BY: ----- PROJ: ----- ALIGNMENT: TAN SKEW: 050 LANES: ON 02 UNDER 04

NAVIGATION: VC --- FT HC --- FT HT.CRN.TO BED: --- FT WATER DEPTH: --- FT

SUPERSTRUCTURE: REINF CONC SLAB ON PPC GIRDERS

SUBSTRUCTURE: ABUTMENTS: REINF. CONC; INT. BTS: RC CAPS/PPC PILES

SPANS: 1@65'4; 2@66'; 1@65'8

BEAMS OR GIRDERS: 5 LINES 22X44 PPC GIRDERS@6'2CTS.

FLOOR: 6.75RC/NO AWS ENCROACHMENTS: ----- DECK (OUT TO OUT): 031.4

CLEAR ROADWAY: 028.0 BETWEEN RAILS: 028 .3 SIDEWALK OR CURB: LT 00.2 RT 00.2

VERT.CL.OVER: 99 FT 99 IN VERT.CL.UNDER: 14 FT 05 IN HOR.CL.UNDER: 45.3 FT SPECIAL PERMIT: ---

INV.RTG.: HS- 29 OPE.RTG.: HS- 48 CONTR.MEMBER: ----- POSTED: SV -- TTST -- DATE -- --

SYSTEM: 3 INTERSTATE GREEN LINE ROUTE: YES

2ND OPENING: 1502 1-95SBL- 3RD OPENING: ----- 4TH OPENING: ----- 5TH OPENING: -----

REMARKS: -----

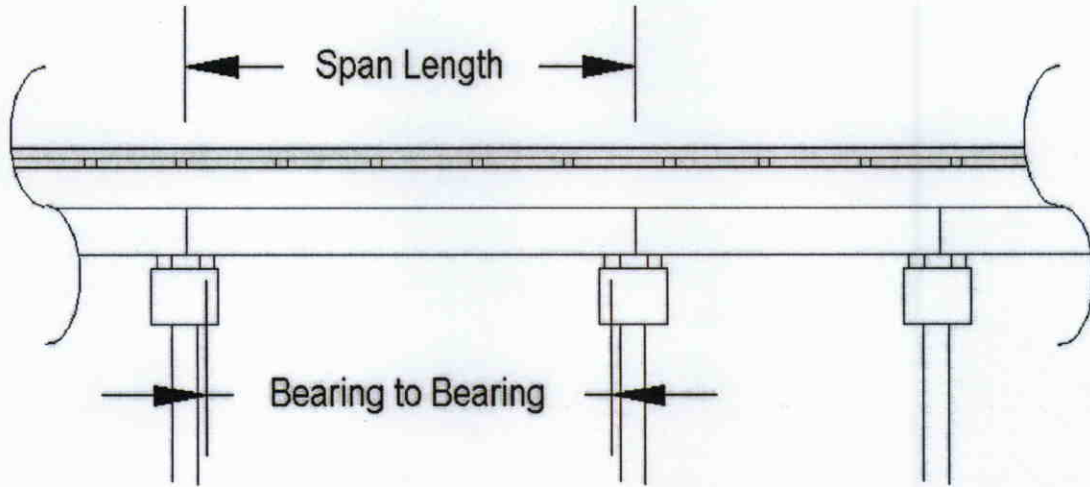
Structure Data Worksheet

Bridge #: 420081

County: HARNETT

Date: 04/19/2006

By: ECB



Span	Length	Brg to Brg	Comments
1	65.333	SEE PLANS	
2	66.0	SEE PLANS	
3	66.0	SEE PLANS	
4	65.667	SEE PLANS	

Bridge Inspection Field Sketch



Roadway	24ft Wide	2 Paved Lanes	Looking East
Left Shoulder	4ft Wide		4ft Unpaved
Right Shoulder	4ft Wide		4ft Unpaved
Left Guardrail			
Right Guardrail			

Title

RDWY

Description

LOOKING EAST

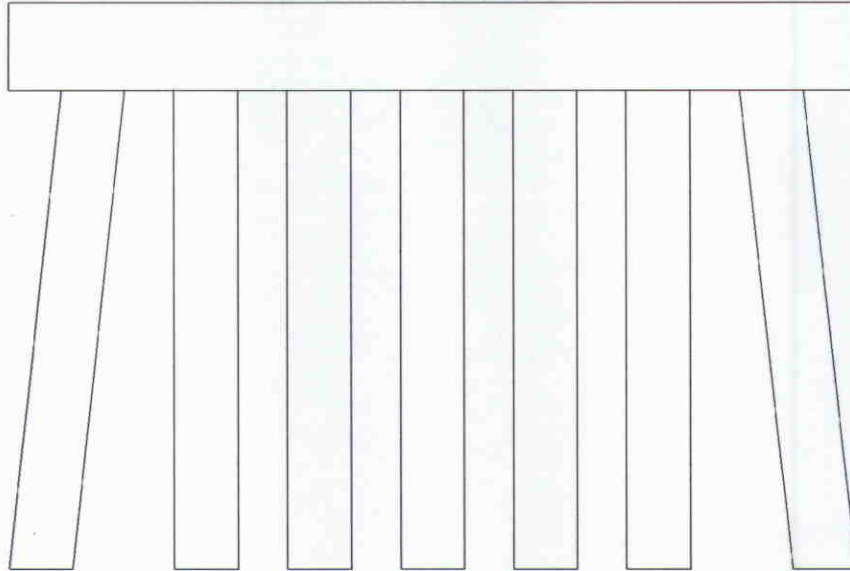
Bridge No: 420081

Drawn By: WBN

Date: 04/03/2006

File Name: S0074000800

Bridge Inspection Field Sketch



Bent #	1	Bents 2,3 similar	
Cap - Pre-Cast			
Cap Size			
Left Overhang	2ft	Lt Cap/Beam Overhang	
Right Overhang	2ft	Rt Cap/Beam Overhang	

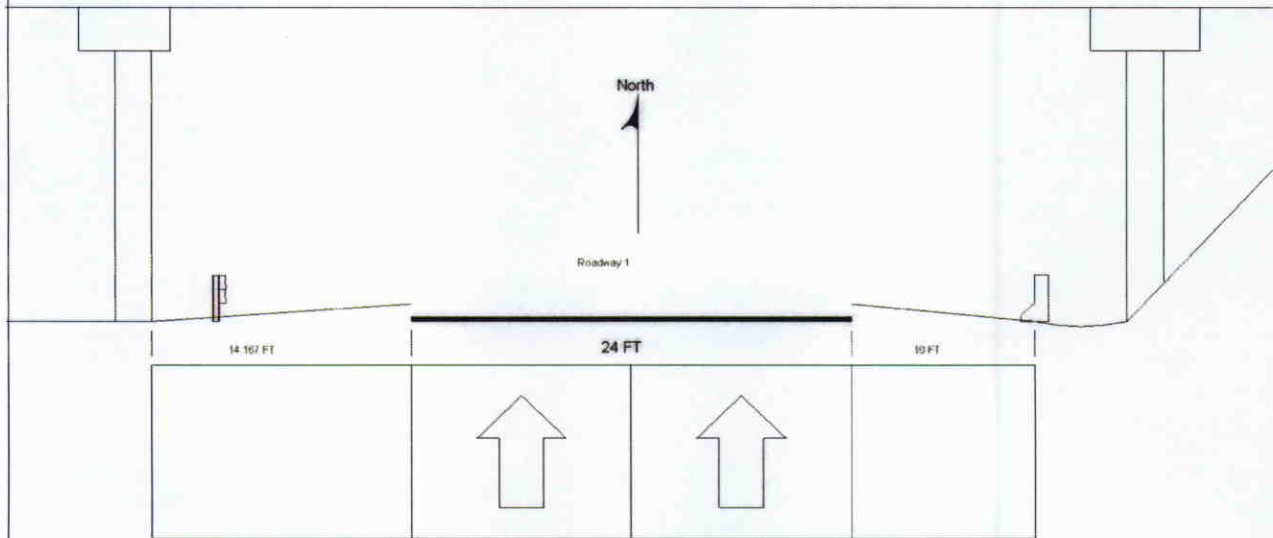
Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Concrete	Pile Bent	5.5		1.667		Batter Pile
2	Concrete	Pile Bent	5.5		1.667		Vertical
3	Concrete	Pile Bent	5.5		1.667		Vertical
4	Concrete	Pile Bent	5.5		1.6676		Vertical
5	Concrete	Pile Bent	5.5		1.667		Vertical
6	Concrete	Pile Bent	5.5		1.667		Vertical
7	Concrete	Pile Bent			1.667		Batter Pile

R.C. ABUTS SEE PLANS

R.C. CAPS SEE PLANS

Title	Description		
SUBSTRUCTURE	PIERS 1,2,3		
Bridge No: 420081	Drawn By: WBN	Date: 04/03/2006	File Name: S0074000802

Bridge Inspection Field Sketch



Roadway 1	Distance to Left Guardrail 10.5 FT
	Distance to Right Guardrail 10 FT
	Distance to Left Toe of Slope
	Distance to Left Bent or Columns 14.167 FT
	Distance to Right Toe of Slope
	Distance to Right Bent or Columns 11.417 FT
	Maximum Minimum Vertical Clearance 14.417 FT @ 10 Measured From LT EDGE OF RDWY on Beam No 5
	Minimum Vertical Clearance 14.417 FT @ 0 Measured From CENTER OF RDWY on Beam No 5

Title

CLR.

Description

NBL

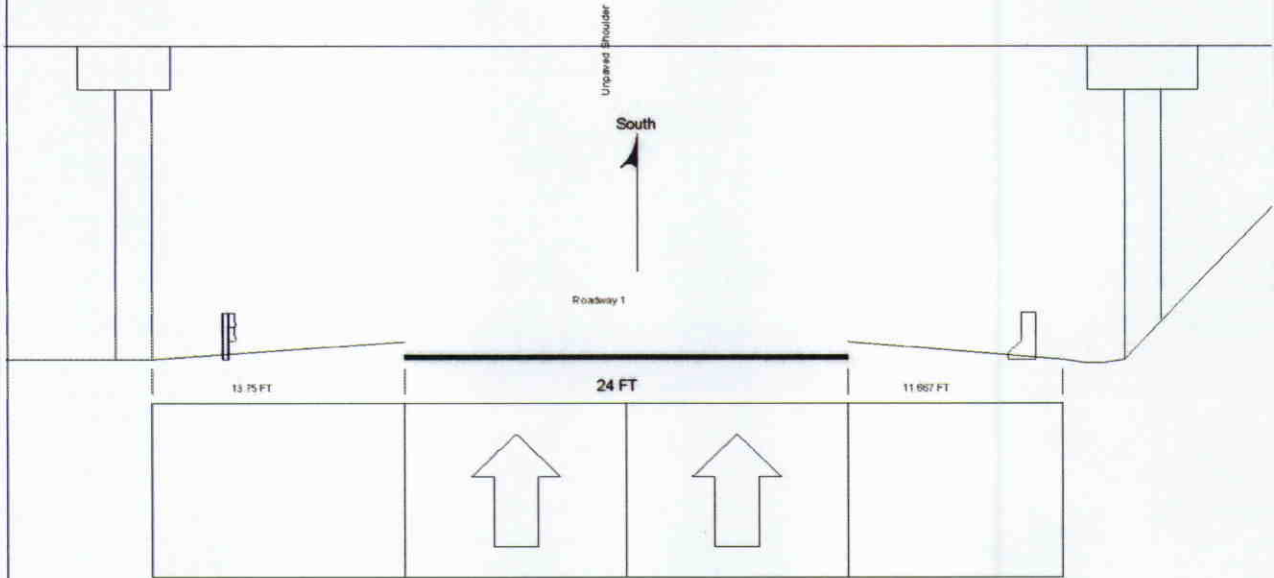
Bridge No: 420081

Drawn By: WBN

Date: 04/03/2006

File Name: S0074000803

Bridge Inspection Field Sketch



Roadway 1	Distance to Left Guardrail 9.583 FT
	Distance to Right Guardrail 9.417 FT
	Distance to Left Toe of Slope
	Distance to Left Bent or Columns 13.75 FT
	Distance to Right Toe of Slope
	Distance to Right Bent or Columns 11.667 FT
	Maximum Minimum Vertical Clearance 15.25 FT @ 10 Measured From RT EDGE OF PAVEMENT on Beam No 5
	Minimum Vertical Clearance 15.167 FT @ 0 Measured From CENTER OF RDWY on Beam No 5

Title

CLR. VERT.

Description

SBL

Bridge No: 420081

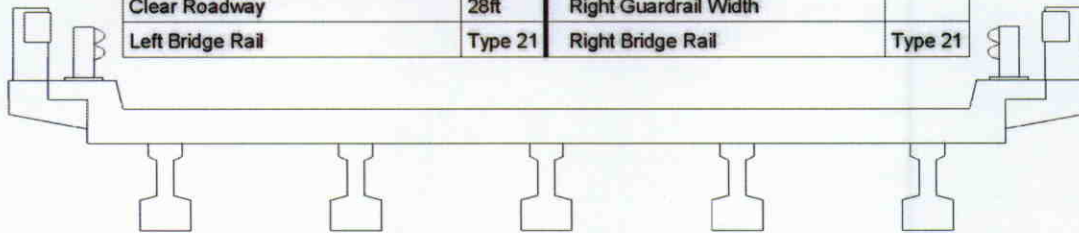
Drawn By: WBN

Date: 04/03/2006

File Name: S0074000806

Bridge Inspection Field Sketch

Deck Width/Out to Out	31.417ft	Wearing Surface	
Between Rails	28.333ft	Median Width	
Curb Height	0.917ft	Median Height	
Top Rail to Deck/Wearing Surface	2.292ft	Left Guardrail Width	
Clear Roadway	28ft	Right Guardrail Width	
Left Bridge Rail	Type 21	Right Bridge Rail	Type 21



Measurements for Span #	1	SPANS 2, 3 AND 4 SIMILAR	
Deck Thickness	0.563	Left Overhang	3.375
Top of Rail to Bottom of Beam		Right Overhang	3.375

Beam No	Beam Type	Spacing	Comments
1	PPC Girder	6.167ft	
2	PPC Girder	6.167ft	
3	PPC Girder	6.167ft	
4	PPC Girder	6.167ft	
5	PPC Girder		

PPC GIRDERS 22 X 44 SEE PLANS

Title TYPICAL SECTION		Description R.C. SLAB ON PPC GIRDERS.	
Bridge No: 420081	Drawn By: WBN	Date: 04/03/2006	File Name: S0074000801

Bridge #: 420081

County: HARNETT

Date: 04/19/2006

Structure Photos



LOW CLEARANCE SIGNS BOTH SIDES NBL 14 FT.5 IN. 0.2 MI. TO BRIDGE.



LOW CLEARANCE SIGN SBL BOTH SIDED ROAD 0.2 MI NORTH OF BRIDGE.

Bridge #: 420081

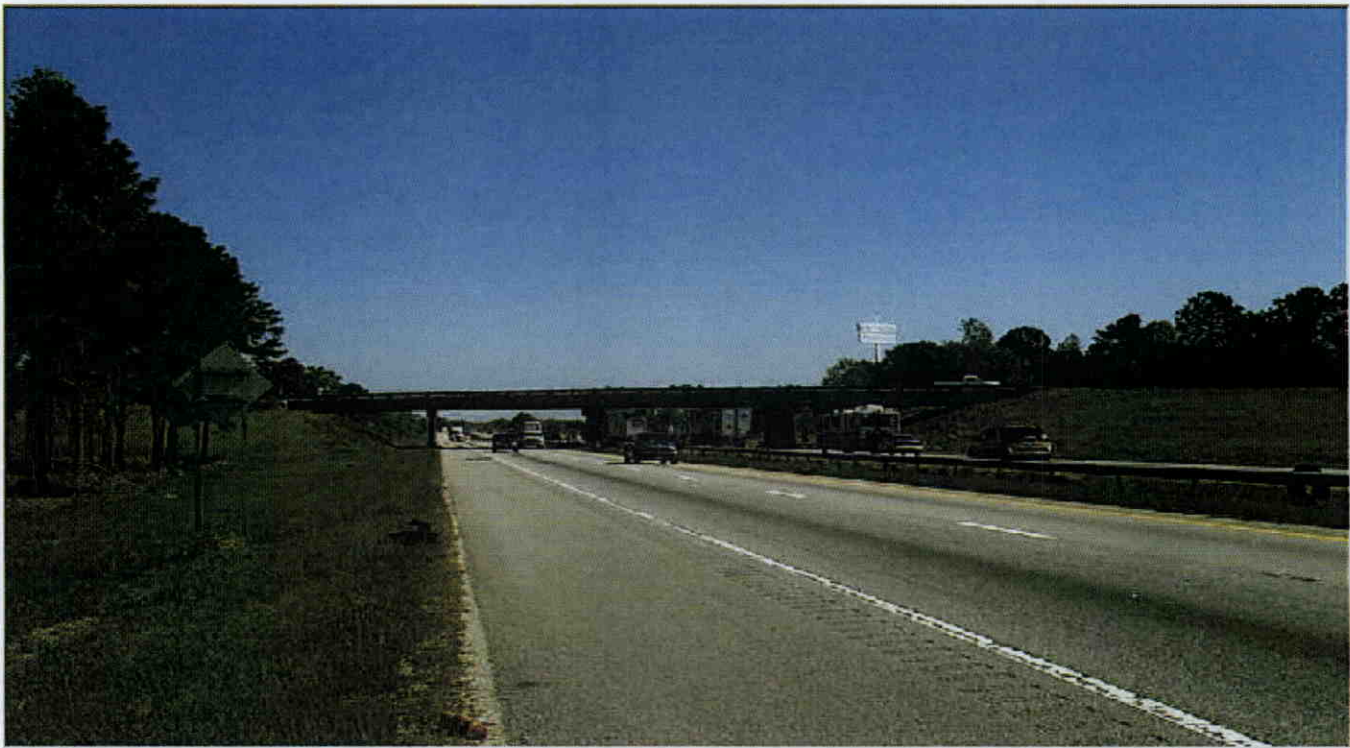
County: HARNETT

Date: 04/19/2006

Structure Photos



LOOKING SOUTH



LOOKING NORTH

Bridge #: 420081

County: HARNETT

Date: 04/19/2006

Structure Photos



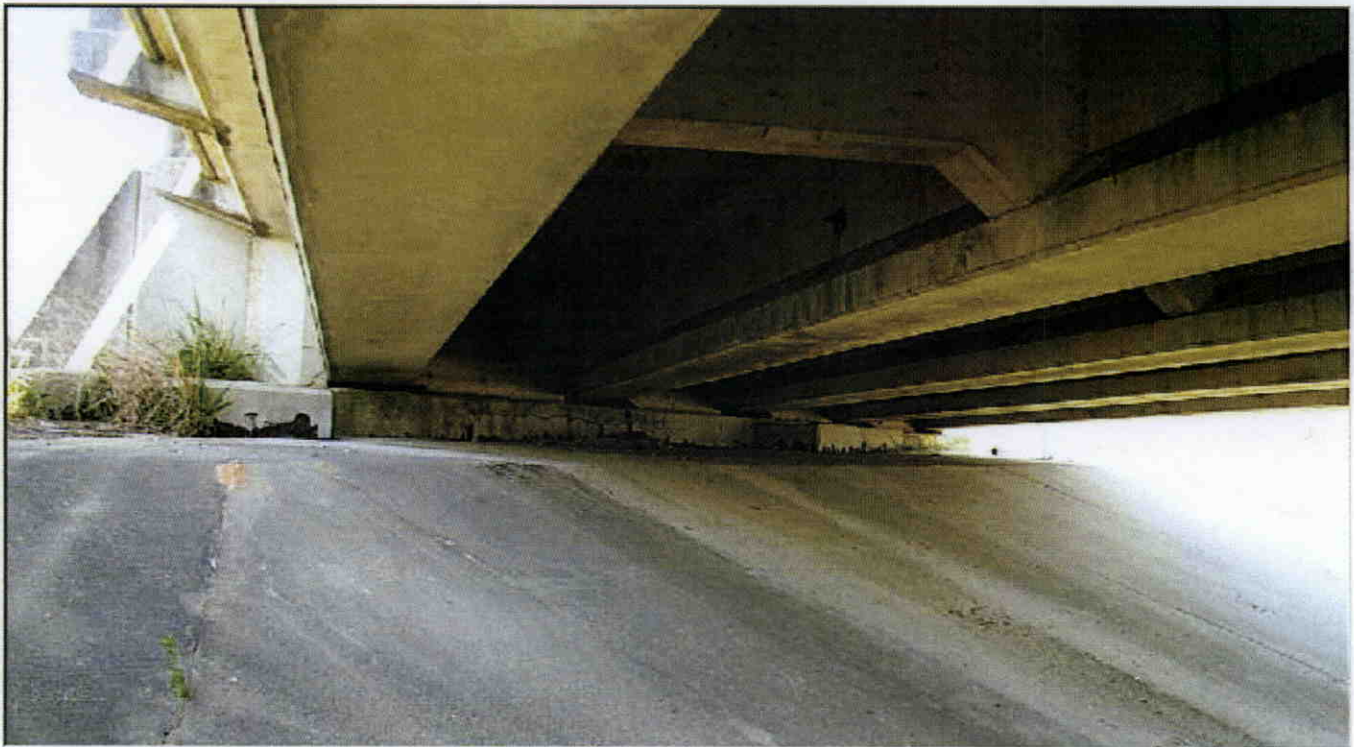
SUPERSTR SPAN 2, SPANS 1, 3 AND 4 SIMILAR



PIER 2, PIERS 1 AND 3 SIMILAR



PIER 1 LEFT END



ABUTMENT 1 ABUTMENT 2 SIMILAR



GUARDRAIL ATTACHMENT TO BRIDGE



GUARDRAIL POSTS AT ATTACHMENT

Bridge #: 420081

County: HARNETT

Date: 04/19/2006

Structure Photos



GUARDRAIL POSTS AT MIDWAY



LOOKING EAST

Bridge #: 420081

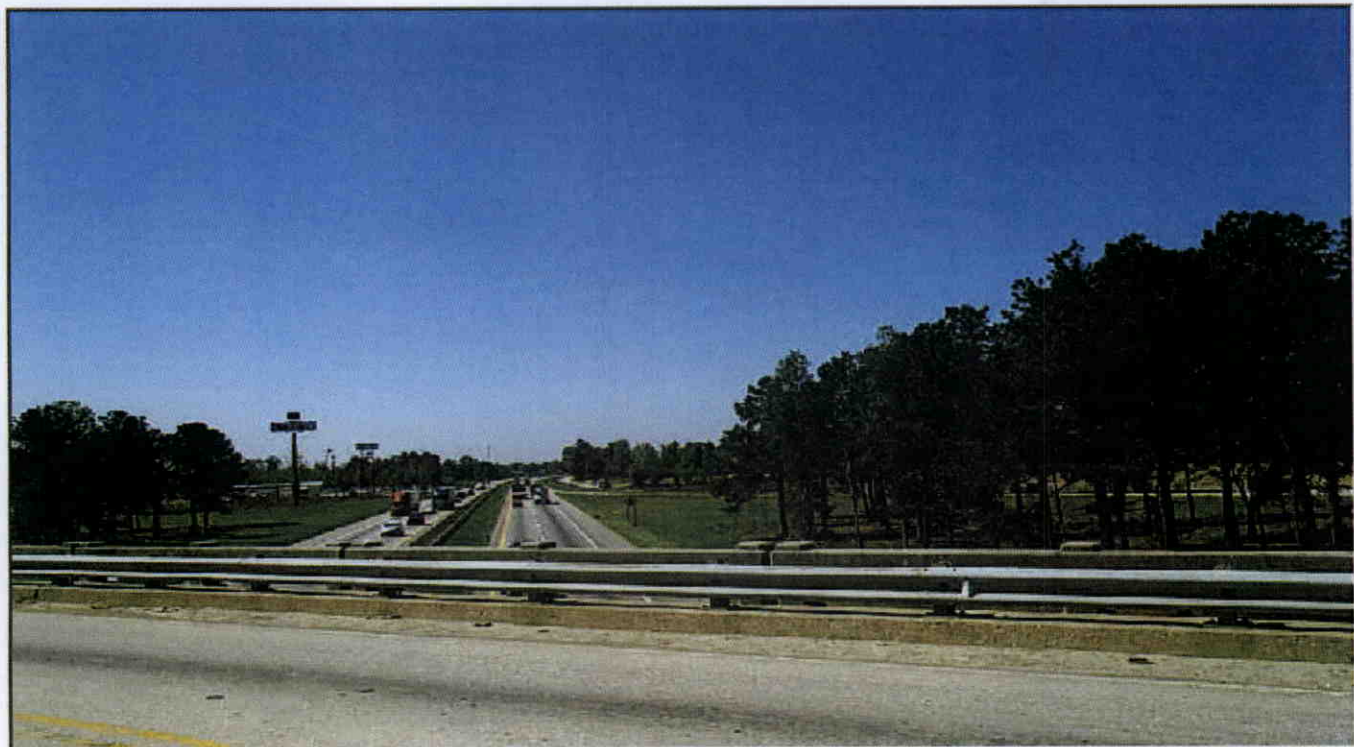
County: HARNETT

Date: 04/19/2006

Structure Photos



SOUTHWEST GUARDRAIL



RAMP LOOKING SOUTH

Bridge #: 420081

County: HARNETT

Date: 04/19/2006

Structure Photos



RAMP LOOKING NORTH



RAMP LOOKING EAST

Bridge #: 420081

County: HARNETT

Date: 04/19/2006

Structure Photos



RAMP LOOKING WEST



SOUTHEAST GUARDRAIL

Bridge #: 420081

County: HARNETT

Date: 04/19/2006

Structure Photos



LOOKING WEST



GUARDRAIL END