



NC DEPARTMENT OF TRANSPORTATION ATTENTION
 DIVISION OF HIGHWAYS
 BRIDGE MAINTENANCE UNIT

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY ROBESON BRIDGE NUMBER 770054 INSPECTION CYCLE 2 YRS
 ROUTE US301 ACROSS I95 M.P. 0

LOCATION 0.7 MI E. JCT SR 1765

SUPERSTRUCTURE REINFORCED CONCRETE FLOOR ON I-BEAMS

SUBSTRUCTURE E.BTS&INT.BTS:REINFORCED CONCRETE CAPS/PPC PILES

SPANS 1 @ 72'11 , 1 @ 76'0 , 1 @ 36'8 , 1 @ 76'0 , 1 @ 72'9

LONGITUDE 78° 59' 50.1" LATITUDE 34° 43' 12.1"

PRESENT CONDITION FAIR INVENTORY RATING H5-27

INSPECTION DATE 03/06/2007 OPERATING RATING H5-45

PRESENT POSTING Not Posted PROPOSED POSTING N.P.

COMPUTER UPDATE 8-30-07 ANALYSIS DATE 8-21-07

POSTING LETTER DATE _____ SUFFICIENCY RATING _____

OTHER SIGNS PRESENT _____



SOUTH APPROACH 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	_____

NATIONAL BRIDGE INVENTORY----- STRUCTURE INVENTORY AND APPRAISAL

Run Date: 08/31/2007

IDENTIFICATION				SUFFICIENCY RATING =		CLASSIFICATION		CODE
(1) STATE NAME -NORTH CAROLINA	BRIDGE	770054						65
(8) STRUCTURE NUMBER(FEDERAL)		000000001550054		STATUS =	Functionally Obsolete			
INVENTORY ROUTE (ON/UNDER) - ON		121003010						
(2) STATE HIGHWAY DEPARTMENT DISTRICT		6						
(3) COUNTY CODE	155	(4) PLACE CODE		(112)NBIS BRIDGE SYSTEM -				YES
(6) FEATURE INTERSECTED -	I95			(104)HIGHWAY SYSTEM	NON NHS Route			0
(7) FACILITY CARRIED	US301			(26) FUNCTIONAL CLASS -	Major Collector			07
(9) LOCATION	0.7 MI E. JCT SR 1765			(100)STRAHNET HIGHWAY -	Not a STRAHNET Route			0
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE -	No Parallel Structure			N
(16)LAT	34° 43' 12.1"	(17)LONG	78° 59' 50.1"	(102)DIRECTION OF TRAFFIC -	2-way Traffic			2
(98)BORDER BRIDGE STATE CODE		PCT SHARE		(103)TEMPORARY STRUCTURE -	Not Temporary			
(99)BORDER BRIDGE STRUCTURE NO				(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				CONDITION		LOAD RATING AND POSTING		CODE
(43) STRUCTURE TYPE MAIN:	Steel			(58) DECK				5
TYPE -	Stringer Multibeam or Girder	CODE	302	(59) SUPERSTRUCTURE				5
(44) STRUCTURE TYPE APPR :				(60) SUBSTRUCTURE				6
TYPE -		CODE		(61) CHANNEL & CHANNEL PROTECTION				N
(45) NUMBER OF SPANS IN MAIN UNIT			5	(62) CULVERTS				N
(46) NUMBER OF APPROACH SPANS			0					
(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					
AGE AND SERVICE				APPRAISAL		PROPOSED IMPROVEMENTS		CODE
(27) YEAR BUILT			1959	(67) STRUCTURAL EVALUATION				5
(106)YEAR RECONSTRUCTED			0	(68) DECK GEOMETRY				4
(42) TYPE OF SERVICE : ON -	Overpass - Interchange			(69) UNDERCLEARANCES,VERTI & HORIZ				2
UNDER - Highway		CODE	61	(71) WATERWAY ADEQUACY				N
(28) LANES: ON STRUCTURE	2 UNDER STRUCTURE		4	(72) APPROACH ROADWAY ALIGNMENT				8
(29) AVERAGE DAILY TRAFFIC			3500	(36) TRAFFIC SAFETY FEATURES				0010
(30) YEAR OF ADT	2005	(109) TRUCK ADT PCT	7 %	(11)SCOUR CRITICAL BRIDGES				N
(19) BYPASS OR DETOUR LENGTH			0 MI					
GEOMETRIC DATA				INSPECTIONS				
(48) LENGTH OF MAXIMUM SPAN			76 FT	(90) INSPECTION DATE				03/06/2007
(49) STRUCTURE LENGTH			334 FT	(92) CRITICAL FEATURE INSPECTION :				(93) CFI DATE
(50)CURB OR SIDEWALK: LEFT	1.6 FT RIGHT		1.6 FT	A) FRACTURE CRIT DETAIL -	NO			A)
(51) BRIDGE ROADWAY WIDTH CURB TO CURB			28.0 FT	B) UNDERWATER INSP -	NO			B)
(52) DECK WIDTH OUT TO OUT			31.5 FT	C) OTHER SPECIAL INSP	NO			C)
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)			22.0 FT	SCOUR				
(33) BRIDGE MEDIAN -	No Median	CODE	0					
(34) SKEW	55° (35) STRUCTURE FLARED		NO					
(10) INVENTORY ROUTE MIN VERT CLEAR			99 FT 99 IN	(75) TYPE OF WORK -				CODE 311
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR			28.0 FT	(76) LENGTH OF STRUCTURE IMPROVEMENT				334 FT
(53) MIN VERT CLEAR OVER BRIDGE RDWY			99 FT 99 IN	(94) BRIDGE IMPROVEMENT COST				\$807,000
(54) MIN VERT UNDERCLEAR REF	Highway		14 FT 07 IN	(95) ROADWAY IMPROVEMENT COST				\$202,000
(55) MIN LAT UNDERCLEAR RT REF	Highway		8.3 FT	(96) TOTAL PROJECT COST				\$1,211,000
(56) MIN LAT UNDERCLEAR LT REF -			5.2 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE				207
				(114)FUTURE ADT	7000	(115) YEAR FUTURE ADT		2025
NAVIGATION DATA								
(38) NAVIGATION CONTROL -	Not Applicable	CODE	N					
(111)PIER PROTECTION -	Not Applicable	CODE						
(39) NAVIGATION VERTICAL CLEARANCE			0					
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR								
(40) NAVIGATION HORIZONTAL CLEARANCE			0					

NATIONAL BRIDGE INVENTORY----- STRUCTURE INVENTORY AND APPRAISAL

Run Date: 08/31/2007

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE 770054
 (8) STRUCTURE NUMBER(FEDERAL) 000000001550054
 INVENTORY ROUTE (ON/UNDER) - UNDER 211000950
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 6
 (3) COUNTY CODE 155 (4) PLACE CODE
 (6) FEATURE INTERSECTED - I95
 (7) FACILITY CARRIED US301
 (9) LOCATION 0.7 MI E. JCT SR 1765
 (11)MILEPOINT 0
 (16)LAT 34° 43' 12.1" (17)LONG 78° 59' 50.1"
 (98)BORDER BRIDGE STATE CODE PCT SHARE
 (99)BORDER BRIDGE STRUCTURE NO

SUFFICIENCY RATING = 65
 STATUS = Functionally Obsolete

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 - No Parallel Structure N
 (102)DIRECTION OF TRAFFIC - 2-way Traffic 2
 (103)TEMPORARY STRUCTURE - Not Temporary
 (110)DESIGNATED NATIONAL NETWORK - Is Part of
 (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 Multibeam or Girder CODE 302
 (44) STRUCTURE TYPE APPR :
 TYPE - CODE
 (45) NUMBER OF SPANS IN MAIN UNIT 5
 (46) NUMBER OF APPROACH SPANS 0
 (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

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

LOAD RATING AND POSTING

(31) DESIGN LOAD HS 20+MOD 6
 (64) OPERATING RATING - HS-46 182
 (66) INVENTORY RATING - HS-27 149
 (70) BRIDGE POSTING - Posting Required 5
 (41) STRUCTURE OPEN, POSTED ,OR CLOSED A
 DESCRIPTION - Open, No Restriction

AGE AND SERVICE

(27) YEAR BUILT 1959
 (106)YEAR RECONSTRUCTED 0
 (42) TYPE OF SERVICE : ON - Overpass - Interchange
 UNDER - Highway CODE 61
 (28) LANES: ON STRUCTURE 2 UNDER STRUCTURE 4
 (29) AVERAGE DAILY TRAFFIC 42000
 (30) YEAR OF ADT 2005 (109) TRUCK ADT PCT 7 %
 (19) BYPASS OR DETOUR LENGTH 0 MI

APPRAISAL

(67) STRUCTURAL EVALUATION 5
 (68) DECK GEOMETRY 4
 (69) UNDERCLEARANCES,VERTI & HORIZ 2
 (71) WATERWAY ADEQUACY N
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES 0010
 (11)SCOUR CRITICAL BRIDGES N

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 76 FT
 (49) STRUCTURE LENGTH 334 FT
 (50)CURB OR SIDEWALK: LEFT 1.6 FT RIGHT 1.6 FT
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 28.0 FT
 (52) DECK WIDTH OUT TO OUT 31.5 FT
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 22.0 FT
 (33) BRIDGE MEDIAN - No Median CODE 0
 (34) SKEW 55° (35) STRUCTURE FLARED NO
 (10) INVENTORY ROUTE MIN VERT CLEAR 14 FT 08 IN
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 37.8 FT
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 99 FT 99 IN
 (54) MIN VERT UNDERCLEAR REF Highway 14 FT 07 IN
 (55) MIN LAT UNDERCLEAR RT REF Highway 8.3 FT
 (56) MIN LAT UNDERCLEAR LT REF - 5.2 FT

PROPOSED IMPROVEMENTS

(75) TYPE OF WORK - CODE 311
 (76) LENGTH OF STRUCTURE IMPROVEMENT 334 FT
 (94) BRIDGE IMPROVEMENT COST \$807,000
 (95) ROADWAY IMPROVEMENT COST \$202,000
 (96) TOTAL PROJECT COST \$1,211,000
 (97) YEAR OF IMPROVEMENT COST ESTIMATE 207
 (114)FUTURE ADT 7000 (115) YEAR FUTURE ADT 2025

NAVIGATION DATA

(38) NAVIGATION CONTROL - Not Applicable CODE N
 (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 03/06/2007
 (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. 770054 COUNTY ROBESON ROUTE US301 OVER I95
 STRUCTURE TYPE REINFORCED CONCRETE FLOOR ON I-BEAMS
 ROUTE ORIENTATION S - N SPANS 1 @ 72'11 , 1 @ 76'0 , 1 @ 36'8 , 1 @ 76'0 , 1 @ 72'9

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

INSPECTION ITEM			ITEM 61		
DECK ITEMS		GRADES			
1. WEARING SURFACE			45. CHANNEL & CHANNEL PROT.	a. WATERWAY	
2. DECK NO. OF EA TYPE				b. ALIGNMENT	
SPN GRADE				c. SCOUR	
RATES SI & A ITEM 58				d. SLOPE PROT., RIP-RAP, DIKES, ETC.	
a. CONCRETE		5	5	50. APPROACH ROADWAY CONDITION	
b. TIMBER				51. APPROACH SLABS	
c. STEEL PLANK				52. PAINT SYSTEM	
d. OPEN GRID				CODE	L
3. RAILING					7
a. CONCRETE			7	53. UTILITIES	
b. TIMBER				54. RESPONSE TO LIVE LOAD	
c. ALUMINUM				55. ESTIMATED REMAINING LIFE	
d. STEEL					21
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			6		
5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)				60. REGULATORY SIGN NOTICE ISSUED	
6. DECK EXP JTS. OR DEVICES. NO. OF EACH				61. PROMPT-ACTION NOTICE ISSUED	
a. STEEL PL OR FINGER				62. PRESENTLY POSTED	
b. MISC PREFAB				63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)	
c. COMPRESSION SEAL					6
d. STANDARD JOINTS		4	5	64. TOTAL SNOOPER INSP. TIME (HRS)	
e. OPEN JOINTS				65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)	
7. DECK DEBRIS (INCLUDES EXCESS SAND/GRAVEL)			7		
SUPER STR. (FM. 1 (90)B TRUSS) ITEM 59			70. SI&A GENERAL CONDITION RATINGS		
10. LONGITUDINAL BEAMS OR GIRDERS			5	a. DECK	ITEM 58
11. LONGITUDINAL JOIST OR STRINGERS				b. SUPERSTRUCTURE	ITEM 59
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S			6	c. SUBSTRUCTURE	ITEM 60
13. END DIAP'S, CURTAIN WALLS, & CONN'S			6	d. CHANNEL & CHANNEL PROT.	ITEM 61
14. FLOOR BEAMS AND CONNECTIONS				71. SI&A FIELD APPRAISAL RATINGS	
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)			5	a. WATERWAY ADAQUACY	
16. DRAINAGE SYSTEM (ON STRUCTURE)			8	b. APPR. RDWY. ALIGNMENT	8
17. MOVABLE SPAN MACHINERY				72. FIELD SCOUR EVALUATION	
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)			USE OF INSP. ACCESSIBILITY EQUIPMENT		
35. TIM SUB STR.		a. ABUT. & INT. BENT CAPS & RISERS		SNOOPER (CODE S, 4, OR N)	HRS
		b. PILES, POST, SILLS, & BRACING			No
		c. BULKHEADS, WING'S, & TIE BACKS		LADDER	Yes
36. CONC SUB STR.		a. ABUT. & INT. BENT CAPS		BUCKET TRUCK	No
		b. ABUT. & BENT COL'S BREASTWALLS		BOAT	No
		c. ABUT. & INT. BENT PILES		OTHER	No
		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)			6		
40. FENDER SYSTEMS				80. INSPECTED BY:	<i>Vance Shrew</i>
41. DRIFT				81. REVIEWED BY:	

Bridge I&A Form 1(82)H		FIELD INSPECTION REPORT <u>Bridge Inspeccion & Analysis</u>	
State of North Carolina Dept. of Transportation Division of Highways			
Team Leader VANCE WRENN			
Assisted By CRB			
Item No.	Grade		
2a	5	CONCRETE PATCHED AREAS ON DECK IN SPAN 5 RANDOM CONCRETE PATCHED AREAS ON DECK AT SPAN 1 END OF SPANS SPALLING AT BENT 3 EXPANSION JOINT RANDOM AREAS OF MAP CRACKING WITH EXPOSED COARSE AGGREGATE RANDOM CONCRETE PATCHED ARREAS IN ALL SPANS	
4	6	RANDOM VERTICAL AND TRANSVERSE HAIRLINE TO 1/64 IN. CRACKS ON CURB	
6d	5	EXPANSION JOINT SEAL CRACKED IN A 3 FT. AREA AT BENT 3 WEST SIDE AND SPLIT 18 IN. LONG IN NORTH BOUND LANE	
10	5	VEHICULAR DAMAGE TO BOTTOM FLANGE OF BEAM 1 SPAN 2 . BEAM FLANGE MOVED 2 IN. TOWARDS THE SOUTH AT MID POINT AREA . VEHICULAR SCRAPE MARKS ON ALL OTHER BEAMS IN SPAN 2 OVER I-95 SOUTH BOUND	
13	6	CURTAIN WALL SPALLING AT END OF BEAM 3 END BENT 1 SMALL SPALLS ON CURTAIN WALL AT END OF BEAMS HAIRLINE TO 1/64 IN. VERTICAL CRACKS ON BENT 3 AND 4 DIAPHRAGM BAY 2 SPAN 3	
15	5	SURFACE RUST ON BEARING PLATES AT END BENTS	
36a	6	BOTTOM SOUTH END OF BENT 1 CAP SPALLED 18 IN. X 20 IN. WITH EXPOSED REBAR . NORTH FACE OF BENT 1 CAP DELAMINATED 3 FT. X 1 FT. UNDER BEAM 4 SPAN 2 . DELAMINATION EXTENDS ON TOP OF CAP 8 IN. AND TO BEARING PLATE 3.5 IN. FROM CAP EDGE. 1/16 IN. HORIZONTAL CRACK ON BOTTOM SOUTH CORNER OF BENT 4 CAP BETWEEN PILES 6 AND 7 HAIRLINE TO 1/16 IN. HORIZONTAL CRACKS ON BOTTOM OF BENT 4 CAP BETWEEN PILES 3 AND 4 1/16 IN. HORIZONTAL CRACK ON BOTTOM AND NORTH FACE OF BENT 4 CAP BETWEEN PILES 6 AND 7 .HL TO 1/64 IN. VERTICAL AND TRANSVERSE CRACK ON END BENT 2 CAP IN BAY 1 NEAR BEAM 2	
50	6	TRANSVERSE CRACK IN ASPHALT WEARING SURFACE AT SOUTH APPROACH PATCHED ASPHALT WEARING SURFACE AT SOUTH APPROACH PATCHED ASPHALT WEARING SURFACE AT NORTH APPROACH SURFACE RUST ON GUARDRAILS AND POST TRANSVERSE AND LONGITUDINAL CRACKING OF ASPHALT WEARING SURFACE A NORTH APPROACH	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 770054

County ROBESON

Date: 03/06/2007

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

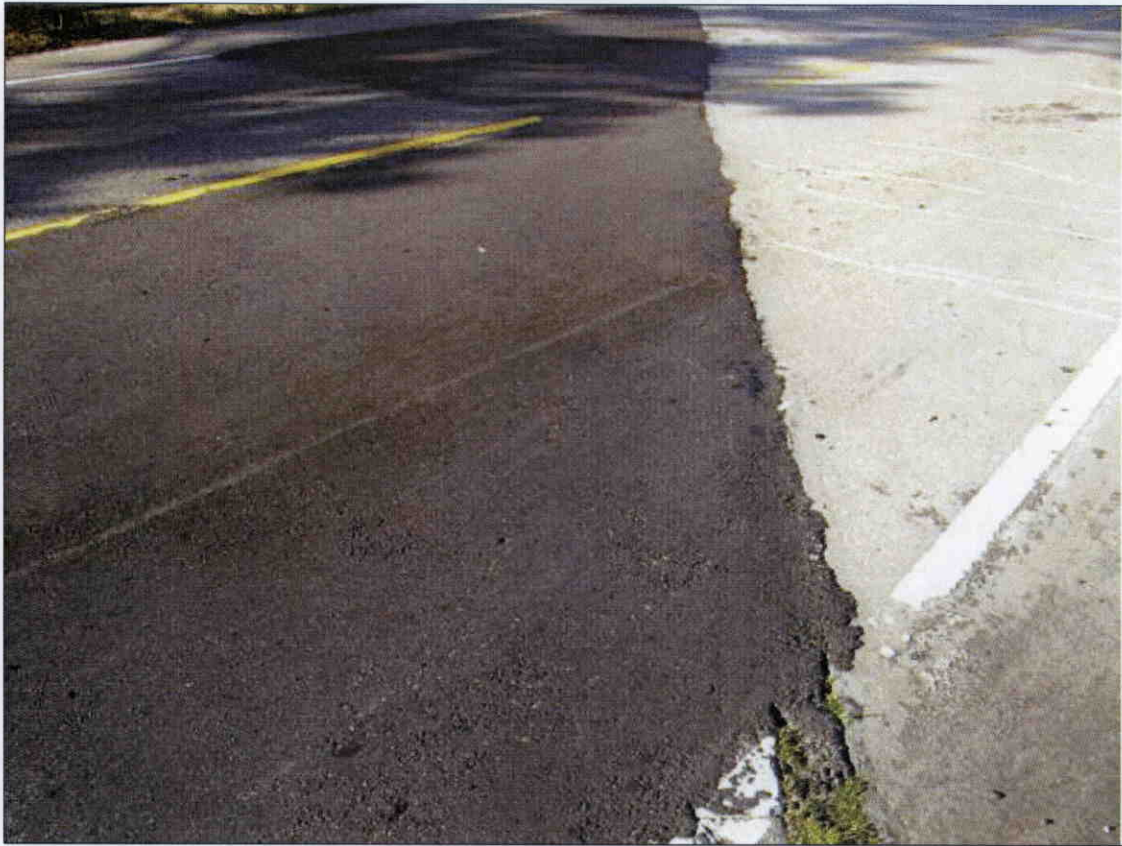
Function Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
554	Partial clenaing and partial painting of structural steel	Man-Hours	100	SURFACE RUST ON BEARING PLATES AT END BENTS	
576	Maintenance of standard deck expansion joints	Lin-ft	32	EXPANSION JOINT SEAL CRACKED IN A 3 FT. AREA AT BENT 3 WEST SIDE AND SPLIT 18 IN. LONG IN NORTH BOUND LANE	
578	General Maintenace of superstructure	Man-Hours	320	VEHICULAR DAMAGE TO BOTTOM FLANGE OF BEAM 1 SPAN 2 . BEAM FLANGE MOVED 2 IN. TOWARDS THE SOUTH AT MID POINT AREA	
583	Maintenance of concrete pier and abutments	Man-Hours	140	BOTTOM SOUTH END OF BENT 1 CAP SPALLED 18 IN. X 20 IN. WITH EXPOSED REBAR .NORTH FACE OF BENT 1 CAP DELAMINATED 3 FT. X 1 FT. UNDER BEAM 4 SPAN 2 . DELAMINATION EXTENDS ON TOP OF CAP 8 IN. AND TO BEARING PLATE 3.5 IN. FROM CAP EDGE.	



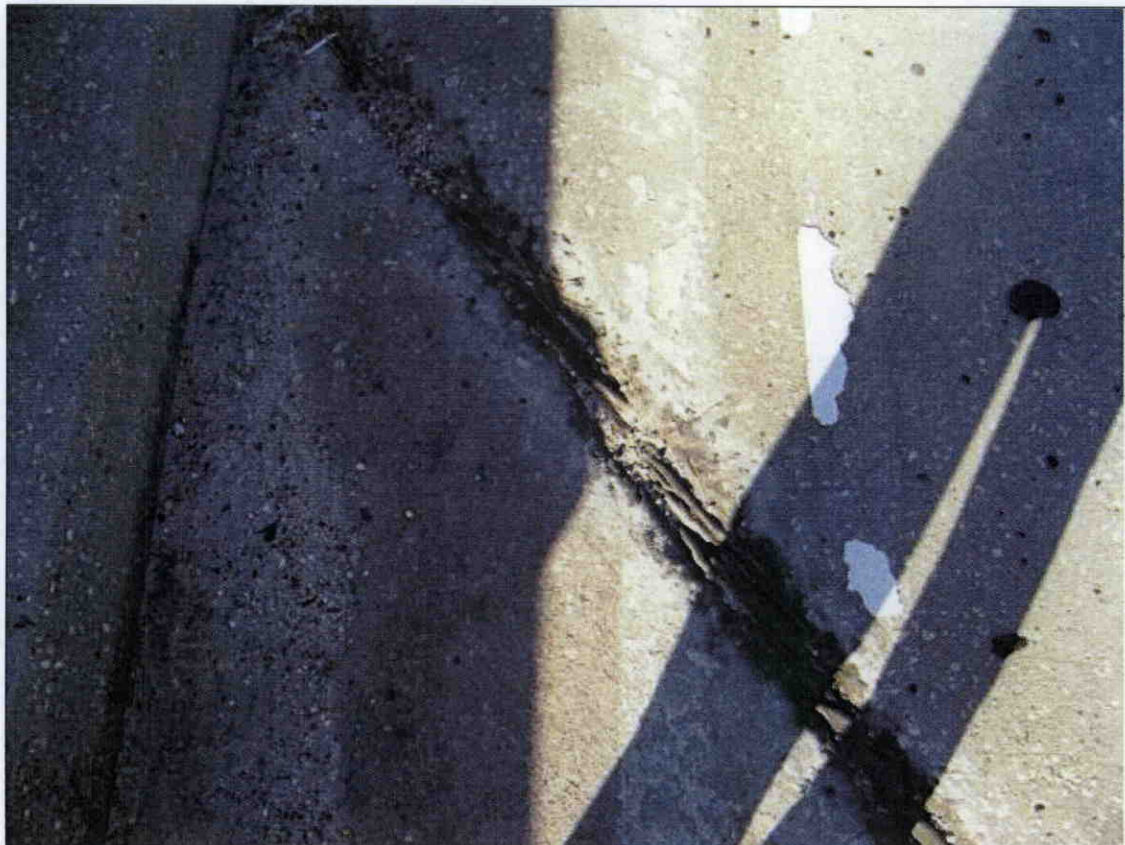
TRANSVERSE CRACK IN ASPHALT WEARING SURFACE AT SOUTH APPROACH



RANDOM CONCRETE PATCHED AREAS ON DECK AT SPAN 1



PATCHED ASPHALT WEARING SURFACE AT SOUTH APPROACH



EXPANSION JOINT SEAL CRACKED IN A 3 FT. AREA AT BENT 3 WEST SIDE AND SPLIT 18 IN. LONG IN NORTH BOUND LANE



CONCRETE PATCHED AREAS ON DECK IN SPAN 5



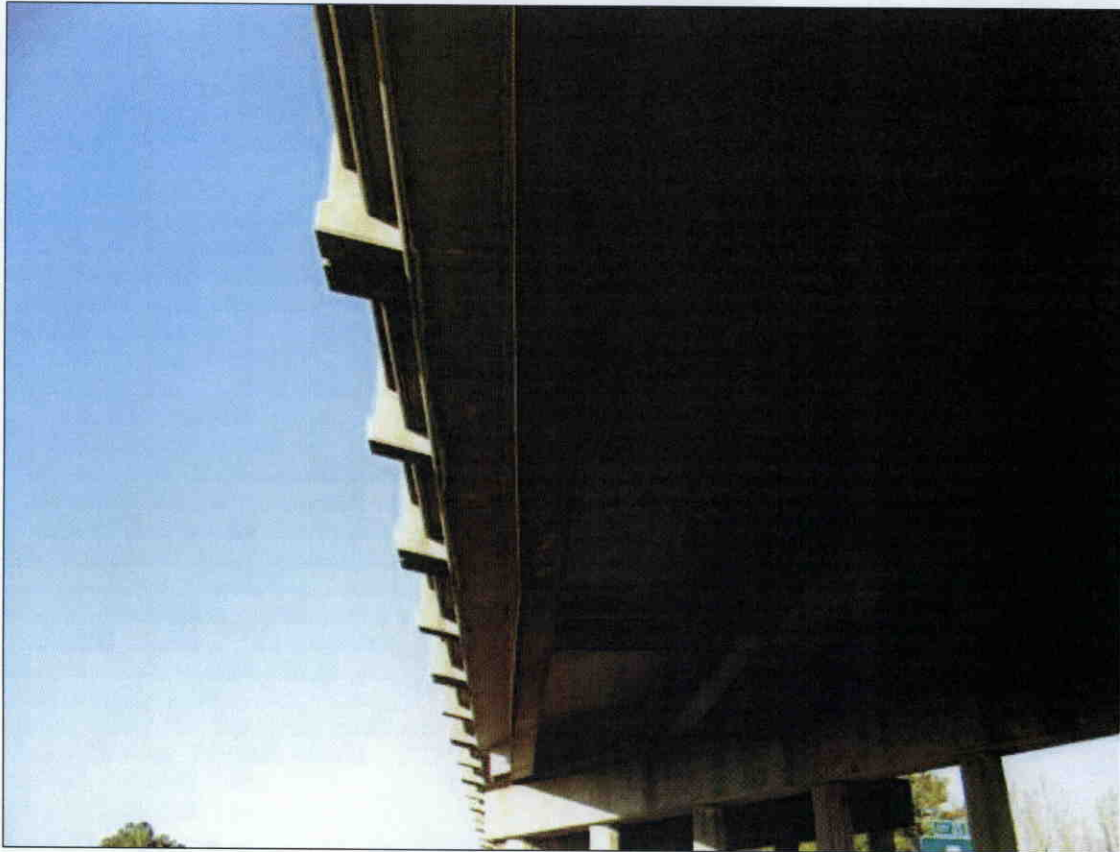
PATCHED ASPHALT WEARING SURFACE AT NORTH APPROACH



END OF SPANS SPALLING AT BENT 3 EXPANSION JOINT



CURTAIN WALL SPALLING AT END OF BEAM 3 END BENT 1



BOTTOM FLANGE OF BEAM 1 SPAN 2 CAUSED BY VEHICULAR DAMAGE , MOVED 2 IN. TOWARDS THE SOUTH AT MID POINT AREA



BOTTOM SOUTH END OF BENT 1 CAP SPALLED 18 IN. X 20 IN. WITH EXPOSED REBAR



NORTH FACE OF BENT 1 CAP DELAMINATED 3 FT. X 1 FT. UNDER BEAM 4 SPAN 2 . DELAMINATION EXTEND ON TOP OF CAP FOR 8 IN. AND TO BEARING PLATE 3.5 IN.FROM



1/16 IN. HORIZONTAL CRACK ON BOTTOM SOUTH CORNER OF BENT 4 CAP BETWEEN PILES 6 AND 7

BRIDGE MAINTENANCE UNIT
DATA ON EXISTING STRUCTURE

RUN DATE 08/31/2007

COUNTY : ROBESON	DIV : 6	DIST : 1	STRUCTURE NUMBER : 770054	LENGTH : 334 FEET
ROUTE CARRIED : US301		FEATURE INTERSECTED : I95		
LOCATED : 0.7 MI E. JCT SR 1765		BRIDGE NAME :		
FUNC. CLASS : 07	SYST.ON : FA	SYST.UNDER : FA	ADT & YR : 3500 2005	RAIL TYPE : LT 111 RT 111
BUILT : 1959	BY : BMU	PROJ : 8.13972	FED.AID PROJ :	DESIGN LOAD : HS 20+MOD
REHAB : 0	BY :	PROJ :	ALIGNMENT : TAN	SKEW : 145
NAVIGATION : VC 0 FT HC 0		HT. CRN. TO BED : 0 FT		LANES : ON 2 UNDER 4 WATER DEPTH : 0 FT
SUPERSTRUCTURE : REINFORCED CONCRETE FLOOR ON I-BEAMS				
SUBSTRUCTURE : E.BTS&INT.BTS:REINFORCED CONCRETE CAPS/PPC PILES				
SPANS : 1 @ 72'11 , 1 @ 76'0 , 1 @ 36'8 , 1 @ 76'0 , 1 @ 72'9				
BEAMS OR GIRDERS : 4 LINES VARYING SIZE I-BEAMS @ 8'0 CENTERS				
FLOOR : 7.75 RC/NO AWS	ENCROACHMENT :		DECK (OUT TO OUT) : 31.5 FT	
CLEAR ROADWAY : 28.0 FT	BETWEEN RAILS : 31.3 FT		SIDEWALK OR CURB : LT 1.6 FT RT 1.6 FT	
VERT.CL.OVER : 99 FT 99 IN	VERT.CL.UNDER : 14 FT 07 IN		HOR.CL.UNDER : 37.8 FT	
INV.RTG. : HS-27	OPE.RTG. : HS-46	CONTR.MEMBER : BEAM INT.	POSTED : SV 0 TTST 0	DATE
SYSTEM : Primary U.S. Route			GREEN LINE ROUTE : Y	
2ND OPENING : 14 FT 07 IN I-95 SBL		3RD OPENING :	4TH OPENING :	5TH OPENING :
REMARKS :				

Structure Data Worksheet

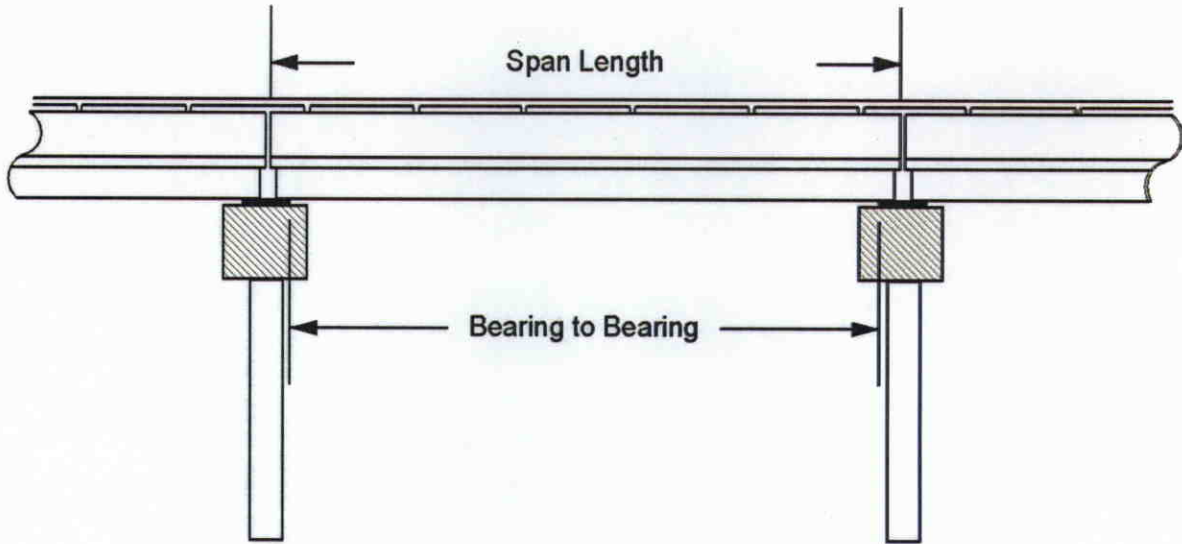
Spans

County: ROBESON

Structure No: 770054

Date: 03/06/2007

Inspected By: VWW



Span No	Span Length	Bearing to Bearing	Comments
1	72.917	SEE PLANS	
2	76.0		
3	36.667		
4	76.0		
5	72.750		

Bridge Inspection Field Sketch



Roadway	22ft Wide	2 Paved Lanes	Looking North
Left Shoulder	6ft Wide		6ft Unpaved
Right Shoulder	6ft Wide		6ft Unpaved
Left Guardrail			
Right Guardrail			

Title

Approach

Description

Approach Roadway

Bridge No: 770054

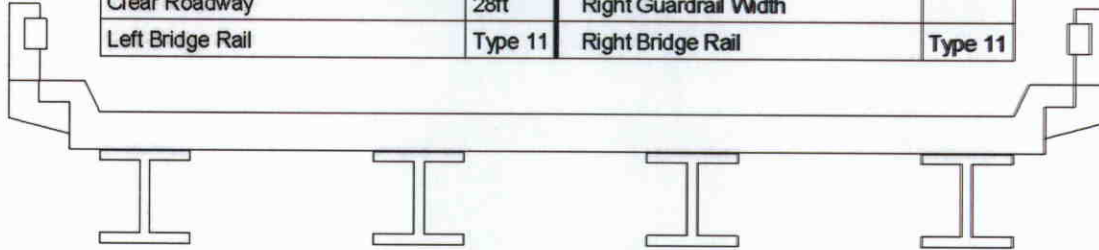
Drawn By: DLP

Date: 08/01/2005

File Name: S0098000269

Bridge Inspection Field Sketch

Deck Width/Out to Out	31.5ft	Wearing Surface	
Between Rails	31.25ft	Median Width	
Curb Height	0.833ft	Median Height	
Top Rail to Deck/Wearing Surface	2.583ft	Left Guardrail Width	
Clear Roadway	28ft	Right Guardrail Width	
Left Bridge Rail	Type 11	Right Bridge Rail	Type 11



Measurements for Span #	1	Spans 2 thru 5 similar	
Deck Thickness	0.646	Left Overhang	3.75
Top of Rail to Bottom of Beam	6.25	Right Overhang	3.75

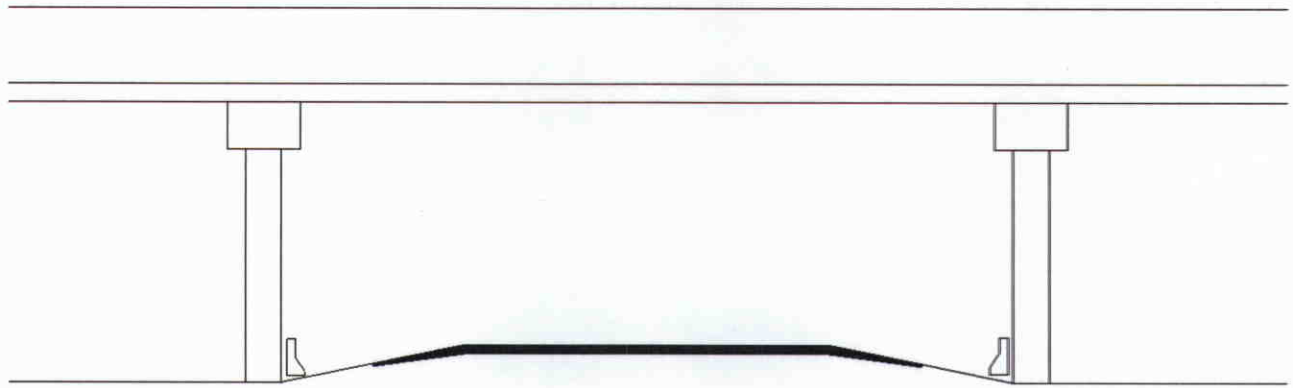
Beam No	Beam Type	Spacing	Comments
1	Steel I Beam	8 FT.	
2	Steel I Beam	8 FT.	
3	Steel I Beam	8 FT.	
4	Steel I Beam		

I - Beams in Spans 1 & 5 are 1 ft. wide x 3.083 ft. high, cover plates .896 ft wide.

See Plans

Title		Description	
Superstructure		Span 1	
Bridge No: 770054	Drawn By: DLP	Date: 08/01/2005	File Name: S0098000270

Bridge Inspection Field Sketch



Roadway	24ft Wide	2 Paved Lanes	All Lanes SouthBound
Left Shoulder	5.167ft Wide		Guardrail: 5.167ft from road
Right Shoulder	8.5ft Wide		Guardrail: 8.5ft from road
Left Turn Lane(s)			
Right Turn Lane(s)			
Distance to Left Bent	6.583ft		
Distance to Left Toe of Slope			
Distance to Right Bent	9.917ft		
Distance to Right Toe of Slope			
Max. Min. Vertical Clearance	14.667ft	10ft from Left edge of road	at beam # 4
Minimum Vertical Clearance	14.583ft	0ft from Center of road	at beam # 4

Title

Underclearance

Description

Span 2

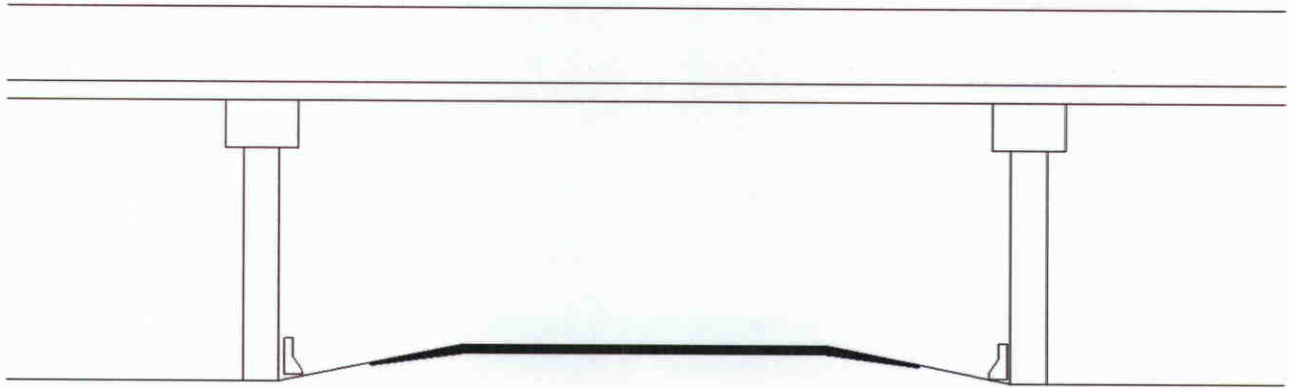
Bridge No: 770054

Drawn By: DLP

Date: 08/01/2005

File Name: S0098000271

Bridge Inspection Field Sketch



Roadway	24ft Wide	2 Paved Lanes	All Lanes NorthBound
Left Shoulder	5.5ft Wide		Guardrail: 5.5ft from road
Right Shoulder	8.333ft Wide		Guardrail: 8.333ft from road
Left Turn Lane(s)			
Right Turn Lane(s)			
Distance to Left Bent	6.917ft		
Distance to Left Toe of Slope			
Distance to Right Bent	9.75ft		
Distance to Right Toe of Slope			
Max. Min. Vertical Clearance	14.667ft	10ft from Left edge of road	at beam # 1
Minimum Vertical Clearance	14.583ft	0ft from Center of road	at beam # 1

Title

Underclearance # 2

Description

Span 4

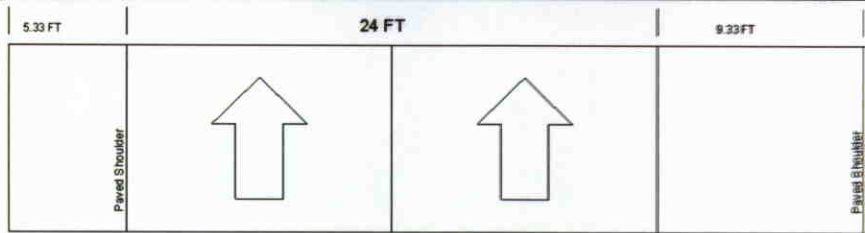
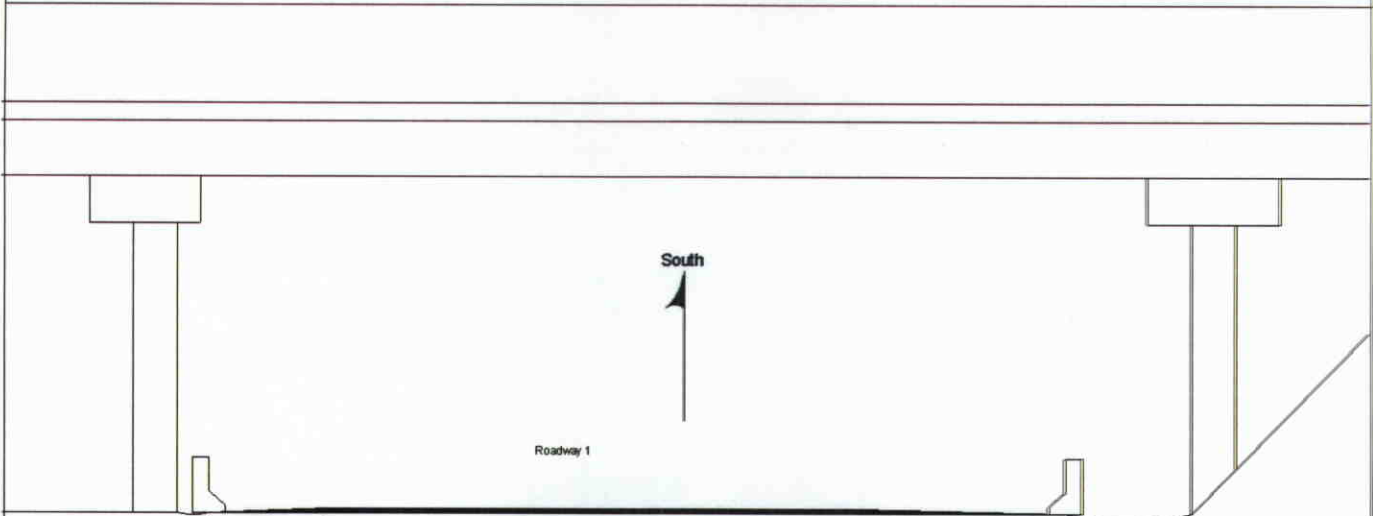
Bridge No: 770054

Drawn By: DLP

Date: 08/01/2005

File Name: S0098000272

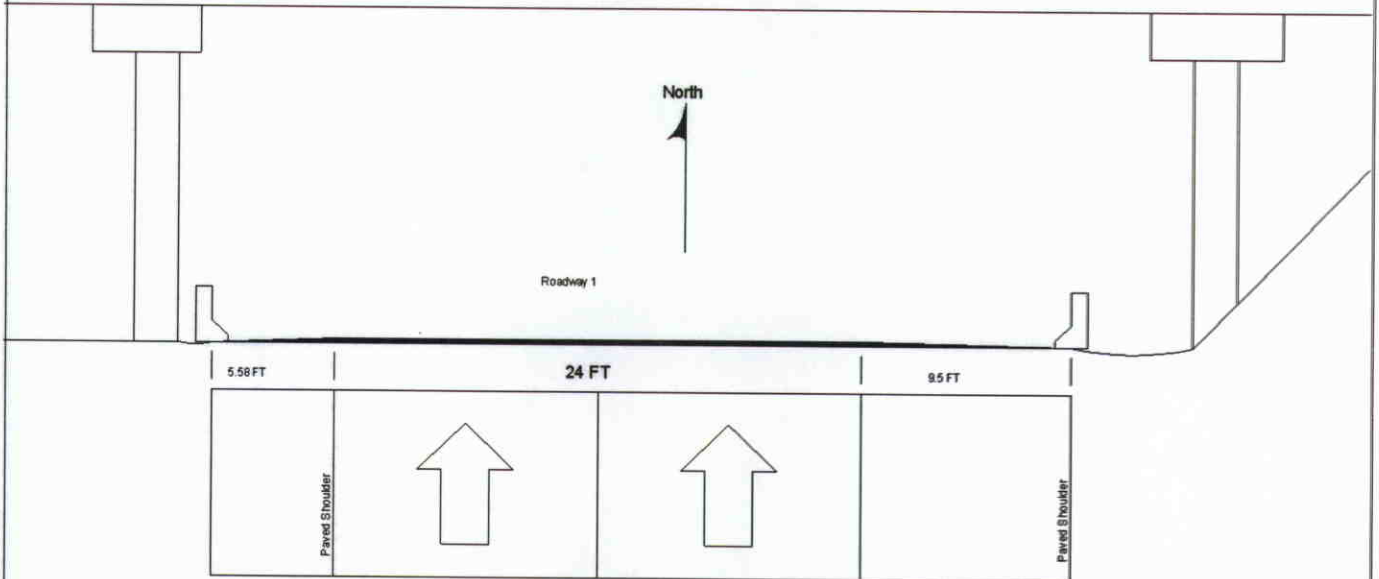
Bridge Inspection Field Sketch



Roadway 1	Distance to Left Guardrail 5.33 FT
	Distance to Right Guardrail 9.33 FT
	Distance to Left Toe of Slope
	Distance to Left Bent or Columns 6.75 FT
	Distance to Right Toe of Slope
	Distance to Right Bent or Columns 10.75 FT
	Maximum Minimum Vertical Clearance 14.76 FT @ 10 Measured From EDGE OF LEFT LANE on Beam No 4
	Minimum Vertical Clearance 14.73 FT @ 0 Measured From CENTER OF ROADWAY on Beam No 4

Title		Description	
UNDERCLEARANCES 95 SB		SPAN 2	
Bridge No: 770054	Drawn By: WWW	Date: 03/06/2007	File Name: S0214000665

Bridge Inspection Field Sketch



Roadway 1	Distance to Left Guardrail 5.58 FT
	Distance to Right Guardrail 9.5 FT
	Distance to Left Toe of Slope
	Distance to Left Bent or Columns 7.13 FT
	Distance to Right Toe of Slope
	Distance to Right Bent or Columns 10.92 FT
	Maximum Minimum Vertical Clearance 14.68 FT @ 10 Measured From LEFT EDGE OF ROADWAY on Beam No 1
	Minimum Vertical Clearance 14.62 FT @ 0 Measured From CENTER OF ROADWAY on Beam No 1

Title		Description	
UNDERCLEARANCES 95 NB		SPAN 4	
Bridge No: 770054	Drawn By: VWW	Date: 03/06/2007	File Name: S0214000666

Bridge Inspection Field Sketch



Roadway	24ft Wide	2 Paved Lanes	Looking North
Left Shoulder	31.25ft Wide	24ft Paved	7.25ft Unpaved
Right Shoulder	6.75ft Wide		6.75ft Unpaved
Left Guardrail	7.25ft from road		
Right Guardrail	6.75ft from road		

Title

APPROACH 2007

Description

SOUTH APPROACH

Bridge No: 770054

Drawn By: VWW

Date: 03/06/2007

File Name: S0214000667



GUARDRAIL POST SPACING 12.25 FT. SOUTHEAST CORNER



GUARDRAIL TERMINATOR SOUTHWEST CORNER



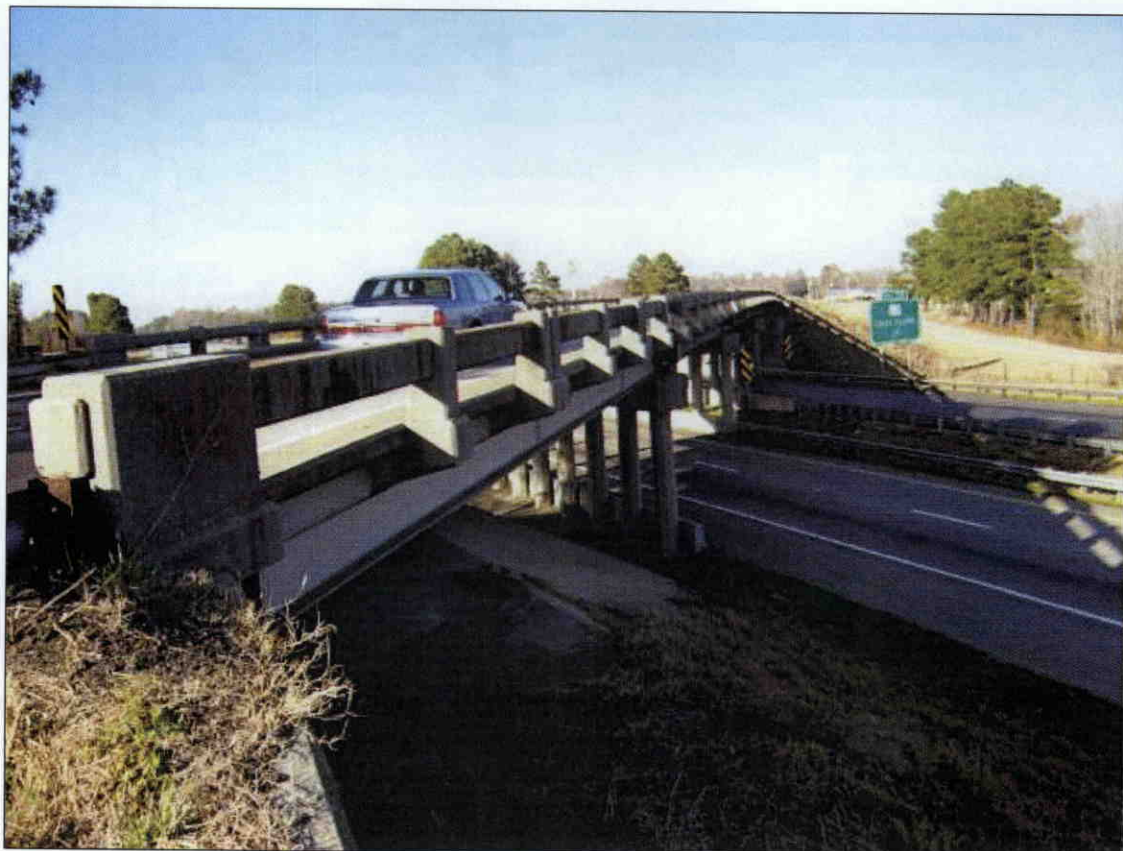
GUARDRAIL ATTACHMENT SOUTHWEST CORNER



TYPICAL RAIL



EXPANSION JOINT TYPICAL



SOUTH PROFILE



NORTH PROFILE



BEARING ASSEMBLY



TYPICAL END BENT



BENT 1 , BENT 4 SIMILAR



UNDERSIDE OF DECK



BENT 2 , BENT 2 SIMILAR



VERTICAL CLEARANCE SIGN 14 FT.-6 IN. ON 95 SB 0.3 MI.N



VERTICAL CLEARANCE SIGN 14 ft.-6 in. ON 95 NB 0.25 MI.S



NORTH APPROACH LOOKING SOUTH



SOUTH APPROACH LOOKING NORTH