



NC DEPARTMENT OF TRANSPORTATION ATTENTION
 DIVISION OF HIGHWAYS
 BRIDGE MAINTENANCE UNIT

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY ROBESON BRIDGE NUMBER 770100 INSPECTION CYCLE 2 YRS
 ROUTE US301 ACROSS I95 M.P. 0

LOCATION 0.5 MI.S.JCT.SR1727

SUPERSTRUCTURE REINFORCED CONCRETE FLOOR ON I-BEAMS

SUBSTRUCTURE E.BTS:RC CAPS/PPC PILES;BTS:RCP&BEAM

SPANS 1@64'2,2@76',1@64'2

LONGITUDE 78° 58' 42.7"

LATITUDE 34° 50' 0.6"

PRESENT CONDITION FAIR

INVENTORY RATING HS-24

INSPECTION DATE 01/19/2006

OPERATING RATING HS-40

PRESENT POSTING Not Posted

PROPOSED POSTING N.P.

COMPUTER UPDATE 4-27-07

ANALYSIS DATE 4-9-07

POSTING LETTER DATE _____

SUFFICIENCY RATING _____

OTHER SIGNS PRESENT LOW CLR. 14FT. 11 IN.



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

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE 770100
 (8) STRUCTURE NUMBER(FEDERAL) 000000001550100
 INVENTORY ROUTE (ON/UNDER) - ON 121003010
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 6
 (3) COUNTY CODE 155 (4) PLACE CODE
 (6) FEATURE INTERSECTED - 195
 (7) FACILITY CARRIED US301
 (9) LOCATION 0.5 MI.S.JCT.SR1727
 (11)MILEPOINT 0
 (16)LAT 34° 50' 0.6" (17)LONG 78° 58' 42.7"
 (98)BORDER BRIDGE STATE CODE PCT SHARE
 (99)BORDER BRIDGE STRUCTURE NO

SUFFICIENCY RATING = 65
 STATUS = Not Deficient

CLASSIFICATION CODE

(112)NBIS BRIDGE SYSTEM - YES
 (104)HIGHWAY SYSTEM NON NHS Route 0
 (26) FUNCTIONAL CLASS - Major Collector 07
 (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: Steel
 TYPE - Stringer Multibeam 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 - Concrete CODE 1
 (B) TYPE OF MEMBRANE - None CODE 0
 (C) TYPE OF DECK PROTECTION - None CODE 0

CONDITION CODE

(58) DECK 4
 (59) SUPERSTRUCTURE 6
 (60) SUBSTRUCTURE 5
 (61) CHANNEL & CHANNEL PROTECTION N
 (62) CULVERTS N

LOAD RATING AND POSTING CODE

(31) DESIGN LOAD HS 20+MOD 6
 (64) OPERATING RATING - HS-40 172
 (66) INVENTORY RATING - HS-24 143
 (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 4000
 (30) YEAR OF ADT 2005 (109) TRUCK ADT PCT 7 %
 (19) BYPASS OR DETOUR LENGTH MI

APPRAISAL CODE

(67) STRUCTURAL EVALUATION 5
 (68) DECK GEOMETRY 4
 (69) UNDERCLEARANCES,VERTI & HORIZ 4
 (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 280 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 31.4 FT
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 20.0 FT
 (33) BRIDGE MEDIAN - No Median CODE 0
 (34) SKEW 45° (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 15 FT 00 IN
 (55) MIN LAT UNDERCLEAR RT REF Highway 10.1 FT
 (56) MIN LAT UNDERCLEAR LT REF - 16.0 FT

PROPOSED IMPROVEMENTS

(75) TYPE OF WORK - CODE 311
 (76) LENGTH OF STRUCTURE IMPROVEMENT 280 FT
 (94) BRIDGE IMPROVEMENT COST \$676,000
 (95) ROADWAY IMPROVEMENT COST \$169,000
 (96) TOTAL PROJECT COST \$1,014,000
 (97) YEAR OF IMPROVEMENT COST ESTIMATE 2007
 (114)FUTURE ADT 8000 (115) YEAR FUTURE ADT 2025

INSPECTIONS

(90) INSPECTION DATE 01/19/2006

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

(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

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 (100)STRAHNET HIGHWAY - Interstate STRAHNET Route 1
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 (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
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 (10) INVENTORY ROUTE MIN VERT CLEAR 15 FT 02 IN
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 46.8 FT
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 99 FT 99 IN
 (54) MIN VERT UNDERCLEAR REF Highway 15 FT 00 IN
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INSPECTIONS

(90) INSPECTION DATE 01/19/2006

NAVIGATION DATA

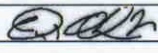
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(92) CRITICAL FEATURE INSPECTION : (93) CFI DATE
 A) FRACTURE CRIT DETAIL - NO A)
 B) UNDERWATER INSP - NO B)
 C) OTHER SPECIAL INSP NO C)
 SCOUR

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection
 BRIDGE NO. 770100 COUNTY ROBESON ROUTE US301 OVER I95
 STRUCTURE TYPE REINFORCED CONCRETE FLOOR ON I-BEAMS
 ROUTE ORIENTATION S - N SPANS 1@64'2,2@76',1@64'2

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

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

FIELD INSPECTION REPORT

Bridge Inspection & Analysis

Team Leader **H.W. HICKS, JR.**

Assisted By **DLP**

Item No.	Grade	Description
2a	4	TRANSVERSE CRACKING WITH EFFLO AT EACH SPAN. PHOTO AT SPAN 3 CRACKS IN TOP SIDE OF DECK SEALED. SEE PHOTO DECK POP OUTS AT SPAN 3. SEE PHOTO DECK PATCHWORK BEGINNING TO SPALL AND DETERIRATE AT SPAN 3 NBL. SEE PHOTO SPALLING IN DECK ALONG APPROACH END OF SPAN 1. SEE PHOTO SPALLING IN OVERHANG LEFT SIDE SPAN 1 MIDSPAN. SEE PHOTO DIAGONAL CRACKING ALONG ABUT. ENDS OF SPANS 1 AND 4. ALSO SEE DECK EVAL. 2-14-95.
4	6	VERTICAL AND TRANSVERSE CRACKING 8 FT. APART BOTH SIDES, EACH SPAN.
6d	4	DETERIORATED JOINT AT PIER 3. SEE PHOTO OTHER JOINTS SIM.
7	6	SOIL IS ACCUMULATING ALONG BOTH GUTTERLINES.
10	6	PITTING UP TO 1/8 INCH ALONG END DIAPHRAGM CONNECTIONS AND BEARING AREAS OF EACH BEAM.
13	6	LEAKAGE EVIDENT AT SOUTHWEST CORNER ABUT. 1.
15	5	BEARING PLATES ARE PITTED UP TO 1/8 INCH DEEP ALONG PLATE EDGES.
36a	5	CRACKING AT LEFT END OF ABUT. 1 CAP. SEE PHOTO CRACKING AT ABUT. 1 CAP UNDER BM. 4. SEE PHOTO SPALLING IN PIER 2 CAP UNDER BM. 2 SOUTH FACE WITH 75 PERCENT BRG REMAINING. SEE PHOTO CRACKING IN BOTTOM FACE PIER 2 CAP BETWEEN COLS. 1 AND 2. SEE PHOTO DIAGONAL CRACKING AT PIER 2 CAP UNDER BM.2 ON NORTH FACE. SOUTH FACE SIM. SEE PHOTO PIER 2 CAP HAS VERTICAL H/L CRACKING 4 FT. APART ON NH AND SH FACES. DELAMINATION 28 INCHES WIDE X 18 INCHES HIGH X 2 INCHES DEEP NEAR BM. 1 ABUT.1 CAP AND BM. 4 ABUT. 2 CAP.
36d	6	FACIAL MAP CRACKING AT NW WING. OTHERWISE (8).

Bridge I&A Form 1(82)H

State of North Carolina
Dept. of Transportation
Division of Highways

FIELD INSPECTION REPORT

Bridge Inspection & Analysis

Team Leader **H.W. HICKS, JR.**

Assisted By **DLP**

Item No.	Grade	
39	5	SETTLEMENT 1 INCH AT SOUTH SLOPE SLABS. SEE PHOTO
50	5	EROSION AT NORTHWEST CORNER. SEE PHOTO EROSION AT SOUTHWEST CORNER. SEE PHOTO SH APPROACH IS PATCHED, ROUGH, AND BEGINNING TO BREAK-UP. NH APPROACH IS SETTLED 1/4 INCH AND CRACKED 1/4 INCH OPEN.

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 770100

County ROBESON

Date: 01/19/2006

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

Function Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
556	Bridge approaches, surfacing or pavement replacement or repair	Man-Hours	80	APPROACHES ARE SETTLED	
578	General Maintenance of superstructure	Man-Hours	100	CURTAIN WALL JOINTS LEAKING	
583	Maintenance of concrete pier and abutments	Man-Hours	140	SPALL AT PIER 2 CRACKING AT EACH CAP DELAMINATION AT BOTH ABUTS.	



TRANSVERSE CRACKING WITH EFFLO AT EACH SPAN. PHOTO AT SPAN 3



EROSION AT NORTHWEST CORNER



CRACKS IN TOP SIDE OF DECK SEALED



DECK POP OUTS AT SPAN 3.



DETERIORATED JOINT AT PIER 3



DECK PATCHWORK BEGINNING TO SPALL AND DETERIORATE AT SPAN 3 NBL.



SPALLING IN DECK ALONG APPROACH END OF SPAN 1.



EROSION AT SOUTHWEST CORNER



LEAKAGE EVIDENT AT SOUTHWEST CORNER ABUT. 1.



CRACKING AT LEFT END OF ABUT. 1 CAP.



SPALLING IN OVERHANG LEFT SIDE SPAN 1 MIDSPAN.



CRACKING AT ABUT. 1 CAP UNDER BM. 4.



SETTLEMENT 1 INCH AT SOUTH SLOPE SLABS



SPALLING IN PIER 2 CAP UNDER BM. 2 SOUTH FACE WITH 75 PERCENT BRG REMAINING.



CRACKING IN BOTTOM FACE PIER 2 CAP BETWEEN COLS. 1 AND 2.



DIAGONAL CRACKING AT PIER 2 CAP UNDER BM.2 ON NORTH FACE. SOUTH FACE SIM.

BRIDGE MAINTENANCE UNIT
DATA ON EXISTING STRUCTURE

RUN DATE 04/27/2007

COUNTY : ROBESON DIV : 6 DIST : 1 STRUCTURE NUMBER : 770100 LENGTH : 280 FEET

ROUTE CARRIED : US301 FEATURE INTERSECTED : I95

LOCATED : 0.5 MI.S.JCT.SR1727 BRIDGE NAME :

FUNC. CLASS : 07 SYST.ON : FA SYST.UNDER : FA ADT & YR : 4000 2005 RAIL TYPE : LT 111 RT 111

BUILT : 1959 BY : SHC PROJ : 8.13962 FED.AID PROJ : DESIGN LOAD : HS 20+MOD

REHAB : 0 BY : PROJ : ALIGNMENT : TAN 45 SKEW : LANES : ON 2 UNDER 4

NAVIGATION : VC 0 FT HC 0 HT. CRN. TO BED : 0 FT WATER DEPTH : 0 FT

SUPERSTRUCTURE : REINFORCED CONCRETE FLOOR ON I-BEAMS

SUBSTRUCTURE : E.BTS:RC CAPS/PPC PILES;BTS:RCP&BEAM

SPANS : 1@64'2,2@76',1@64'2

BEAMS OR GIRDERS : SPNS1-4:4LNS36 I-BEAMS@8'CTS.

FLOOR : 7.25 RC/NO AWS ENCROACHMENT : DECK (OUT TO OUT) : 31.4 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 : 15 FT 00 IN HOR.CL.UNDER : 46.8 FT

INV.RTG. : HS-24 OPE.RTG. : HS-40 CONTR.MEMBER : BEAM INT. POSTED : SV 0 TTST 0 DATE

SYSTEM : Primary U.S. Route GREEN LINE ROUTE : Y

2ND OPENING : 15 FT 02 IN I-95 SBL 3RD OPENING : 4TH OPENING : 5TH OPENING :

REMARKS :

Structure Data Worksheet

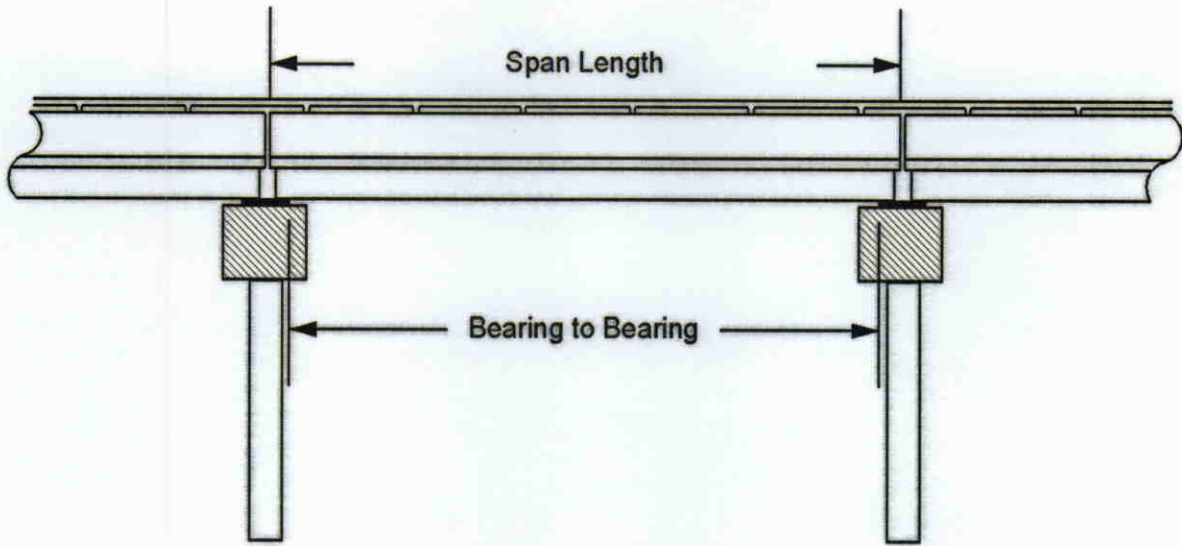
Spans

County: ROBESON

Structure No: 770100

Date: 17/19/2006

Inspected By: HWH



Span No	Span Length	Bearing to Bearing	Comments
1	64.167 ft.		
2	76 ft.		
3	76 ft.		
4	64.167 ft.		

Bridge Inspection Field Sketch



Roadway	20ft 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 Rdwy.

Bridge No: 770100

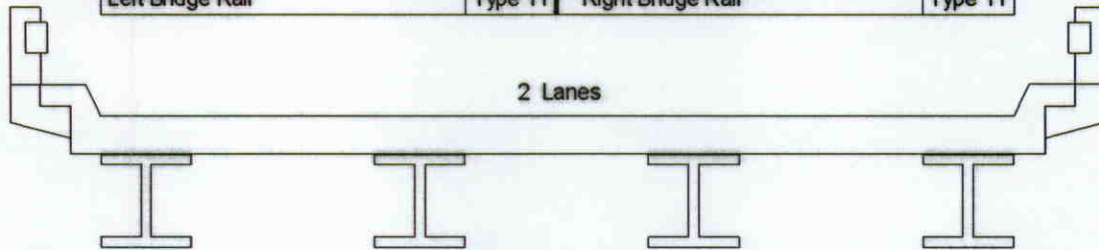
Drawn By: DLP

Date: 11/21/2005

File Name: S0098000561

Bridge Inspection Field Sketch

Deck Width/Out to Out	31.417ft	Wearing Surface	None
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



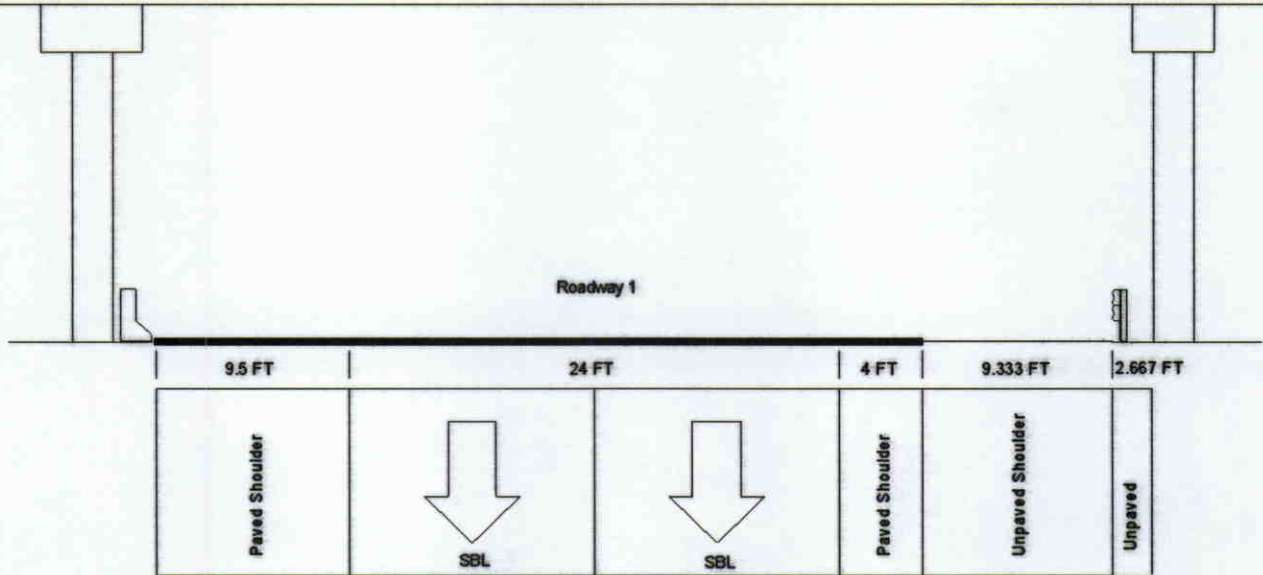
Measurements for Span #	1	Spans 2 thru 4 similar	
Deck Thickness	0.604	Left Overhang	3.708
Top of Rail to Bottom of Beam	6.188	Right Overhang	3.708

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		

Spans 1 & 4 - W36 x 150, Spans 2 & 3 - W36 x 230, Cover Plate Spans 1 & 4 - .873 ft. wide x .073 ft. thick

Title Superstructure		Description Span 1	
Bridge No: 770100	Drawn By: DLP	Date: 11/21/2005	File Name: S0098000562

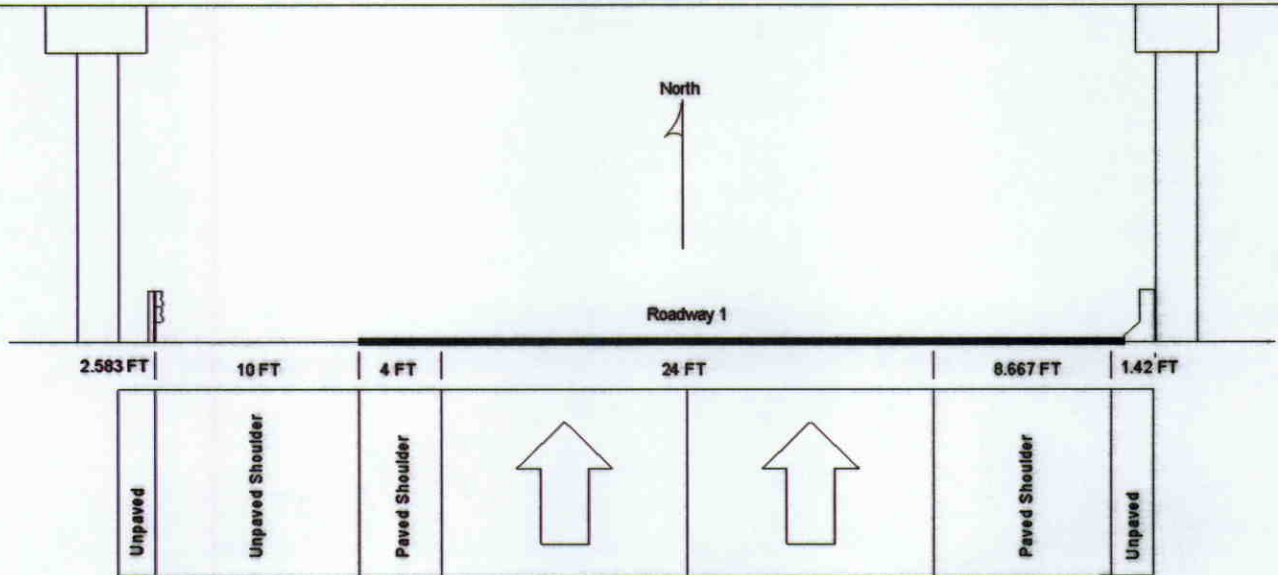
Bridge Inspection Field Sketch



Roadway 1	Distance to Right Guardrail 10.92 FT
	Distance to Left Guardrail 14.333 FT
	Distance to Right Toe of Slope
	Distance to Right Bent or Columns 10.92 FT
	Distance to Left Toe of Slope
	Distance to Left Bent or Columns 16 FT
	Maximum Minimum Vertical Clearance 15.167 FT @ 10 Measured From edge of outside lane on Beam No 4
Minimum Vertical Clearance 15.167 FT @ 0' Measured From centerline of lanes on Beam No. 4	

Title	Description
Underclearance # 1	Span 2
Bridge No: 770100	Drawn By: DLP
Date: 11/21/2005	File Name: S0098000563

Bridge Inspection Field Sketch



Roadway 1	Distance to Left Guardrail 14 FT
	Distance to Right Guardrail 10.08 FT
	Distance to Left Toe of Slope
	Distance to Left Bent or Columns 16.583 FT
	Distance to Right Toe of Slope
	Distance to Right Bent or Columns 10.08 FT
	Maximum Minimum Vertical Clearance 15.083 FT @ 10 Measured From edge of outside lane on Beam No 4
Minimum Vertical Clearance 15 FT @ 0 Measured From centerline of lanes on Beam No 4	

Title Underclearance # 2	Description Span 3
Bridge No: 770100	Drawn By: DLP
Date: 11/21/2005	File Name: S0098000564



VERTICAL CLR. SIGN 14 FT.11 IN. SOUTH OF BRIDGE



NORTH



VERTICAL SIGN 14 FT.11 IN. NORTH OF BRIDGE



SOUTH



BENT 2 LOOKING SOUTH



TYP SUPERSTRUCTURE



ABUT. 2 LOOKING NORTH



TERMINAL GUARDRAIL END



POST SPACING



SOUTH



POST SPACING AT BRIDGE



GUARDRAIL END AT BRIDGE



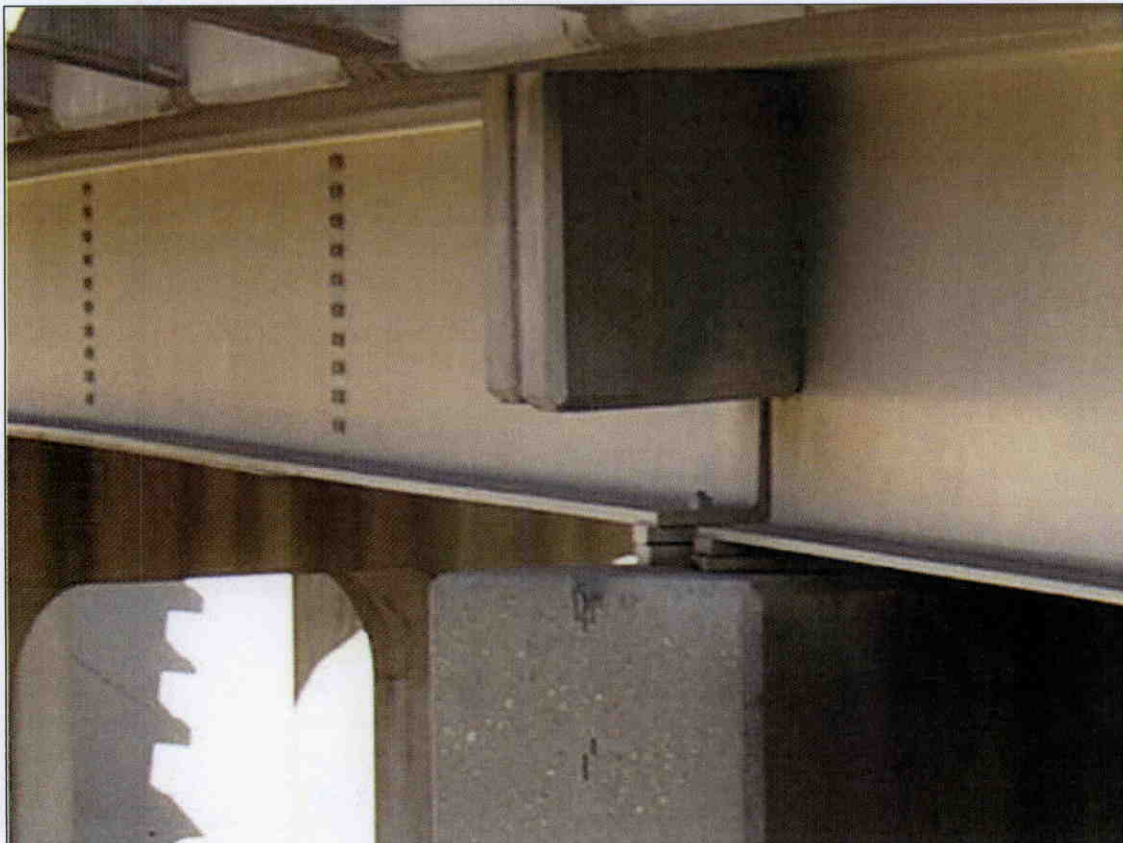
FILLED JOINTS



BR. RAIL



NORTH



BM. ENDS OVER CAP AND TYP. BEARING



ABUT. 1 LOOKING SOUTH



PIER 1 LOOKING SOUTH PIER 3 SIM.