



NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MAINTENANCE UNIT

ATTENTION: _____

BRIDGE INSPECTION REPORT

TYPE INSPECTION ROUTINE

COUNTY UNION BRIDGE NO. 34 INSP. CYCLE 2 YRS.

ROUTE ~~SR-1565~~ CONCORD AVE ACROSS US-74

LOCATION 0.1 MI. S. JCT. SR-1623 M.P. _____

DESCRIPTION 4-SPANS R.C DECK & I-BEAMS ON
R.C SUBSTRUCTURE

PRESENT CONDITION FAIR

INVENTORY RATING H515 OPERATING RATING H526

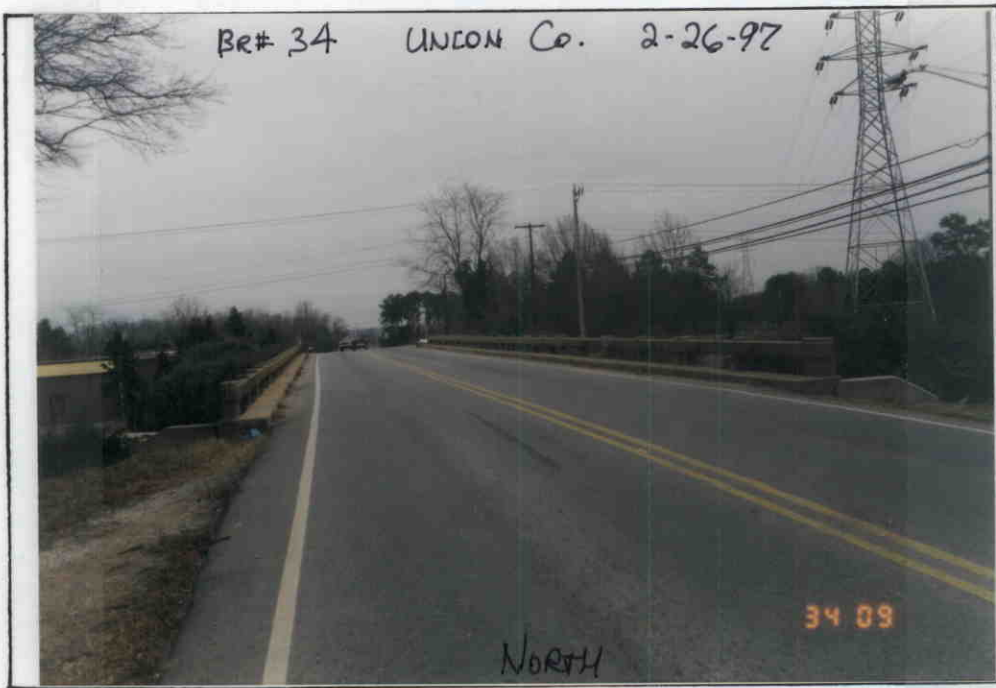
INSPECTION DATE 2-26-97 ANALYSIS DATE 4/24/97

COMPUTER UPDATE 5/14/97 POSTING LETTER DATE _____

PRESENT POSTING NOT POSTED

PROPOSED POSTING No change

OTHER SIGNS PRESENT 2-DELINEATOR



SPECIAL PERMIT _____

SIGN NOTICE ISSUED FOR	NUMBER REQUIRED
---------------------------	--------------------

WEIGHT LIMIT _____

SPECIAL PERMIT _____

DELINEATORS 2

NARROW BRIDGE _____

ONE LANE BRIDGE _____

LOW CLEARANCE _____

***** IDENTIFICATION *****

(1) STATE NAME - NORTH CAROLINA BRIDGE 89034
 (8) STRUCTURE NUMBER #140069 0
 (5) INVENTORY ROUTE (ON/UNDER) - ON = ~~131015450~~ 15000000
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 10
 (3) COUNTY CODE 179 (4) PLACE CODE 43920
 (6) FEATURES INTERSECTED - US74
 (7) FACILITY CARRIED - SR1565 - *control Ave*
 (9) LOCATION - 0.1 MI. S. JCT. SR1623
 (11) MILEPOINT 000.000
 (16) LATITUDE 35 D 00.1M (17) LONGITUDE 080 D 33.1M
 (98) BORDER BRIDGE STATE CODE PCT SHARE
 (99) BORDER BRIDGE STRUCTURE NO. ‡

SUFFICIENCY RATING = 59.6
 STATUS = STRUCTURALLY DEFICIENT

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

(112) NBIS BRIDGE LENGTH - YES
 (104) HIGHWAY SYSTEM - NON NHS ROUTE 0
 (26) FUNCTIONAL CLASS - LOCAL 19
 (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 7
 (59) SUPERSTRUCTURE 5
 (60) SUBSTRUCTURE 7
 (61) CHANNEL & CHANNEL PROTECTION N
 (62) CULVERTS N

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

(31) DESIGN LOAD - HS 15 3
 (64) OPERATING RATING - H LOADING 146
 (66) INVENTORY RATING - H LOADING 127
 (70) BRIDGE POSTING - NO POSTING REQUIRED 5
 (41) STRUCTURE OPEN, POSTED, OR CLOSED A
 DESCRIPTION - OPEN, NO RESTRICTION

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

(67) STRUCTURAL EVALUATION 2
 (68) DECK GEOMETRY 3
 (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL 2
 (71) WATERWAY ADEQUACY N
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES 0000
 (113) SCOUR CRITICAL BRIDGES N

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

(75) TYPE OF WORK - REPLACE FOR DEFICIENCY CODE 311
 (76) LENGTH OF STRUCTURE IMPROVEMENT 000180 FT
 (94) BRIDGE IMPROVEMENT COST \$ 315,000
 (95) ROADWAY IMPROVEMENT COST \$ 32,000
 (96) TOTAL PROJECT COST \$ 428,000
 (97) YEAR OF IMPROVEMENT COST ESTIMATE 1997
 (114) FUTURE ADT 004382 (115) YEAR FUTURE ADT 2010

***** INSPECTIONS *****

(90) INSPECTION DATE 02/97 (91) FREQUENCY 24 MO
 (92) CRITICAL FEATURE INSPECTION: (93) CFI DATE
 A) FRACTURE CRIT DETAIL - NO - NO A) /
 B) UNDERWATER INSP - NO - NO B) /
 C) OTHER SPECIAL INSP - NO - NO C) /
 SCOUR - NOT EVALUATED

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

(43) STRUCTURE TYPE MAIN: STEEL
 TYPE - STRINGER/MBEAM OR GIRDER CODE 302
 (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 - BITUMINOUS CODE 6
 B) TYPE OF MEMBRANE - NONE CODE 0
 C) TYPE OF DECK PROTECTION - NONE CODE 0

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

(27) YEAR BUILT 1951
 (106) YEAR RECONSTRUCTED 0000
 (42) TYPE OF SERVICE: ON - OVERPASS STR -INTERCHANGE
 UNDER - HIGHWAY CODE 61
 (28) LANES: ON STRUCTURE 02 UNDER STRUCTURE 06
 (29) AVERAGE DAILY TRAFFIC 003200
 (30) YEAR OF ADT 1995 (109) TRUCK ADT PCT 07
 (19) BYPASS, DETOUR LENGTH 01 MI

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

(48) LENGTH OF MAXIMUM SPAN 0053 FT
 (49) STRUCTURE LENGTH 000180 FT
 (50) CURB OR SIDEWALK: LEFT 01.6 FT RIGHT 01.6 FT
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 026.0 FT
 (52) DECK WIDTH OUT TO OUT 029.5 FT
 (32) APPROACH ROADWAY WIDTH (W/SHOULDER) 021 FT
 (33) BRIDGE MEDIAN - NO MEDIAN CODE 0
 (34) SKEW 15 DEG (35) STRUCTURE FLARED NO
 (10) INVENTORY ROUTE MIN VERT CLEAR 99 FT 99 IN
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 26.0 FT
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 99 FT 99 IN
 (54) MIN VERT UNDERCLEAR REF - HIGHWAY 15 FT 09 IN
 (55) MIN LAT UNDERCLEAR RT REF - HIGHWAY 05.0 FT
 (56) MIN LAT UNDERCLEAR LT 06.0 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

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(7) FACILITY CARRIED - SR1565 *conv'd to hwy*
(9) LOCATION - 0.1 MI. S. JCT. SR1623
(11) MILEPOINT 000.000
(16) LATITUDE 35 D 00.1M (17) LONGITUDE 080 D 33.1M
(98) BORDER BRIDGE STATE CODE PCT SHARE
(99) BORDER BRIDGE STRUCTURE NO. #

SUFFICIENCY RATING = 59.6
STATUS =

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

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(104) HIGHWAY SYSTEM - NHS ROUTE 1
(26) FUNCTIONAL CLASS - OTHER PRINCIPAL ARTERIAL 14
(100) DEFENSE HIGHWAY - YES DEFENSE HWY 1
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(102) DIRECTION OF TRAFFIC - 2-WAY TRAFFIC 2
(103) TEMPORARY STRUCTURE - NOT TEMPORARY
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(20) TOLL - ON FREE ROAD 3
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(30) YEAR OF ADT 1995 (109) TRUCK ADT PCT 00
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(33) BRIDGE MEDIAN - NO MEDIAN CODE 0
(34) SKEW 15 DEG (35) STRUCTURE FLARED NO
(10) INVENTORY ROUTE MIN VERT CLEAR 16 FT 00 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 15 FT 09 IN
(55) MIN LAT UNDERCLEAR RT REF - HIGHWAY 05.0 FT
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BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE ROUTINE INSPECTION DATE 2-26-97
 BRIDGE NO. 34 COUNTY UNION ROUTE SR 1565 OVER US 74
 STRUCTURE TYPE RC SLAB ON I-BEAMS w/RC SUBSTR. YEAR BUILT 1951
 LENGTH 180'-0" ROUTE ORIENTATION SOUTH → NORTH FOR SPAN 1-4 OF 4 SPANS

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

INSPECTION ITEM		GRADE	ITEM 61	GRADE
DECK ITEMS			45 CHANNEL & CHANNEL PROT.	a. WATERWAY b. ALIGNMENT c. SCOUR d. SLOPE PROT., RIP - RAP, DIKES, ETC.
1 WEARING SURFACE		7		N
2 DECK	a. CONCRETE	4		N
	b. TIMBER			N
	c. STEEL PLANK			N
	d. OPEN GRID			
NO. OF EA. TYPE SPN. GRADE RATES SI & A ITEM 58			50 APPROACH ROADWAY CONDITION 51 APPROACH SLABS 52 PAINT SYSTEMS CODE ("A") 53 UTILITIES	8 8
3 RAILING	a. CONCRETE	8	54 RESPONSE TO LIVE LOAD 55 ESTIMATED REMAINING LIFE	8 17 yrs.
	b. TIMBER			
	c. ALUMINUM			
	d. STEEL			
4 CURBS - WHEELGUARDS - PARAPETS - MEDIANS		7	60 REGULATORY SIGN NOTICE ISSUED	2-26-97 No YES
5 WALKWAYS (ON OR ATTACHED TO STRUCTURE)			61 PROMPT - ACTION NOTICE ISSUED	No
6 DECK EXP. JTS. OR DEVICES	a. STEEL PL. OR FINGER PL. b. MISC. PREFAB DEVICES c. COMPRESSION SEALS d. STANDARD JOINTS e. OPEN JOINTS	7	62 PRESENTLY POSTED	NOT POSTED
			63 TOT. FIELD INSP. TIME (INCLUDE WRITE UP) (M/H)	6
			64 TOTAL SNOOPER INSP. TIME (HRS)	N
			65 TOTAL TRAFFIC CONTROL TIME (M/H)	N
7 DECK DEBRIS (INCLUDE EXCESS SAND / GRAVEL)		7	70 SI&A GENERAL CONDITION RATINGS	
			a. DECK ITEM 58	7
			b. SUPERSTRUCTURE ITEM 59	5
			c. SUBSTRUCTURE ITEM 60	7
			d. CHANNEL & CHANNEL PROT. ITEM 61	N

SUPER. STR. (FM. 1 (90) B TRUSS) ITEM 59

10 LONGITUDINAL BEAMS OR GIRDERS	5
11 LONGITUDINAL JOIST OR STRINGERS	
12 INT. DIAP'S, X-FRAMES, BRACING, & CONN'S	5
13 END DIAP'S, CURTAN WALLS, & CONN'S	7
14 FLOOR BEAMS AND CONNECTIONS	
15 BEARINGS ASSEMBLIES (INCLUDE MISALIGN)	8
16 DRAINAGE SYSTEMS (ON STRUCTURES)	8
17 MOVABLE SPAN MACHINERY	

71 SI&A FIELD APPRAISAL RATINGS

a. WATERWAY ADAQUACY	N
b. APPR. RDWY. ALIGNMENT	8
72 FIELD SCOUR EVALUATION	N

SUB. STR ITEMS, ITEM 60 (INCLUDE SCOUR)

35 TIM. SUB. STR.	a. ABUT. & INT. BENT CAPS & RISERS b. PILES, POST, SILLS, & BRACING c. BULKHEADS, WING'S, & TIE BACKS	
36 CONC. SUB. STR.	a. ABUT. & INT. BENT CAPS b. ABUT. & BENT COL'S & BREASTWALLS c. ABUT. & INT. BENT PILES d. BACKWALLS - WING'S - RETAIN. WALLS e. ABUT. AND BENT FOOTINGS & SILLS	7 8 8
37 STEEL SUB. STR.	a. ABUT. & INT. BENT CAPS & RISERS b. PILES AND BRACING AND BULKHEADS	
38 FOUNDATION PILES TYPE MATERIAL		
39 SLOPE PROT., RIP - RAP (INCLUDE DRAINAGE)	<u>EARTH</u>	8
40 FENDER SYSTEMS		
41 DRIFT		

USE OF INSP. ACCESSIBILITY EQUIPMENT

SNOOPER (CODE P, S, 4 or N)		
LADDER	Y/N	N
OVERSIDE LADDER	Y/N	Y
BUCKET TRUCK	Y/N	N
BOAT	Y/N	N
OTHER ()	Y/N	N
SPECIAL INSPECTION REQUESTED FOR :		
NOTE:		
80 INSPECTED BY :	<u>E.C. Blake</u>	
81 REVIEWED BY :	<u>[Signature]</u>	
SH.		of

Bridge I & A Form 1 (82)H
7-22-84 JML

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
& HIGHWAY SAFETY

BRIDGE MAINTENANCE UNIT
BRIDGE INSPECTION SECT.

FIELD INSPECTION REPORT
BRIDGE INSPECTION & ANALYSIS

BRIDGE No. 34
ROUTE SR 1665
COUNTY UNION

Team Leader: E.C. Blake Date 2-26-97
Assisted By: T.W. HATHCOCK
Item No.

1. WEARING SURFACE (7) GOOD. THE ASPHALT IS CRACKED OVER THE PIERS AND AT THE ABUTMENTS UP TO 1/8" WIDE. THE SURFACE IS SMOOTH.

10. I-BEAMS (5) FAIR. ALL BEAMS IN SPAN "B" HAVE BEEN HIT OR SCRAPED BY HIGH LOADS. BEAM #1 SPAN "B" HAS BEEN REPLACED BUT HIT AT 1/3 RD POINT WHICH BENT THE BOTTOM FLANGE DOWN 1/2" IN AN 8" LONG SECTION. BEAM #2 SPAN "B" HAS 2 PLATES WELDED TO THE BOTTOM. (SEE SKETCH). THE BOTTOM FLANGE IS BENT UP ON THE LEFT SIDE 1/2" AND BENT EASTWARD 1"±. THE BEAMS IN SPAN "C" HAVE BEEN HIT OR SCRAPED BY HIGH LOADS. BEAM #1 BOTTOM FLANGE BENT UP 1" AT 2/3'S POINT AND WESTWARD 1"±. BEAM #4 IS BENT OUT OF ALIGNMENT AT 1/3 RD POINT 1" TO WEST. ALL BEAMS HAVE BEEN CLEANED AND PAINTED. BRIDGE HAS BEEN RAISED SINCE BEAMS WERE HIT.

12. INTERMEDIATE DIAPHRAGMS (5) FAIR. THE INTERMEDIATE DIAPHRAGMS ARE PAINTED. BAY #2 CONCRETE IS SPALLED WITH REBAR EXPOSED IN SPAN "C". THE EXTERIOR SIDE OF BEAM #4 DIAPHRAGM IS SPALLED WITH REBAR EXPOSED. CURTAIN WALLS (8) GOOD.

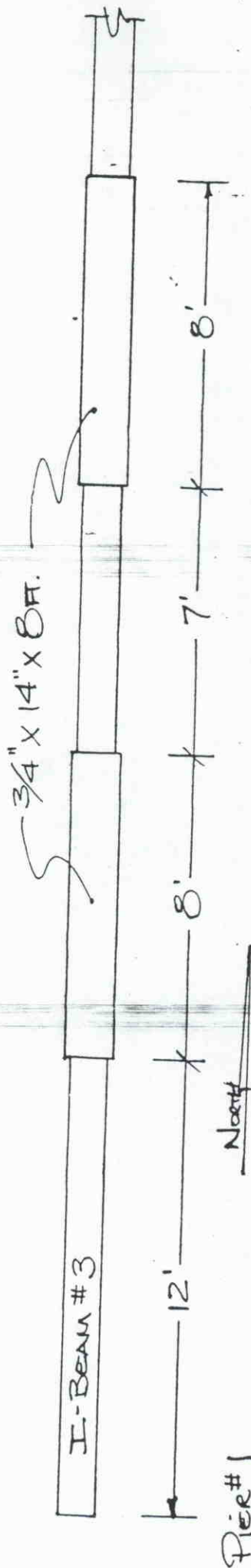
36A. PIER CAPS (7) GOOD. PIER #2 HAS SOME MINOR SURFACE SPALLS. PIER CAPS ARE WEATHERED AND STAINED DUE TO WATER LEAKING THROUGH JOINTS.

34

UNION COUNTY

3-8-93
ECB
2-26-97

LOCATION OF PLATES WELDED TO BOTTOM FLANGE OF
BEAM # 3, SPAN "B".



NOT TO SCALE

LOOKING UP AT BOTTOM FLANGE



PHOTO # _____

DAMAGE TO BEAM # 1 SPAN B



PHOTO # _____

DAMAGE TO BEAM # 2 SPAN B

BR # 34

UNION CO

2-26-97

(6)



PHOTO

REPAIRS TO BEAM # 3 SPAN B

PHOTO

NORTH CAROLINA
DEPARTMENT of TRANSPORTATION
DIVISION of HIGHWAYS
BRIDGE MAINTENANCE UNIT

STRUCTURE DATA FILE

COUNTY UNION BRIDGE NO 34

- CONTENTS:
- DATA CARD
 - STRUCTURE DATA WORK SHEETS
 - STREAM BED SOUNDINGS & PROFILE SKETCH
 - FORM 501 OR 502
 - FORM BMD - 9
 - RETURNED PROMT ACTION NOTICE SHOWING REPAIRS
 - OTHER SKETCHES AND NOTES SHOWING STRUCTURE DETAILS
 - PHOTOGRAPHS

NOTE: STRUCTURE ANALYSIS-CHECK YES or NO

WHEN PLANS ARE AVAILABLE

FIELD INSPECTOR _____

DATE 2-26-97 BY E.C.B

T80028

BRIDGE MAINTENANCE UNIT
DATA ON EXISTING STRUCTURE

RUN DATE 05/14/97

COUNTY: DIV.: DIST.: STRUCTURE NUMBER: LENGTH:
UNION 10 3 89 034 180 FEET

ROUTE CARRIED: ~~SR1545~~ *Concord Ave* FEATURE INTERSECTED:
US74

LOCATED: BRIDGE NAME:
0.1 MI. S. JCT. SR1623

FUNC. CLASS: SYST.ON: SYST.UNDER: ADT & YR: RAIL TYPE:
LU NONFA FA 3200 95 LT 111 RT 111

BUILT: BY: PROJ: FED.AID PROJ: DESIGN LOAD:
1951 SHPWC 6926 F-680(3 HS-15

REHAB: BY: PROJ: ALIGNMENT: SKEW: LANES:
TAN 105 ON 02 UNDER 06

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

SUPERSTRUCTURE:
REINFORCED CONCRETE DECK ON I-BEAMS

SUBSTRUCTURE:
END BENTS:RC SPILL THROUGH, INTERIOR BENTS:RC POST & BEAM

SPANS:
1@37'6 , 2@52'6 , 1@37'6

BEAMS OR GIRDERS:
4 LINES OF I-BEAMS @ 7'6 CTS, SP1&4:W30X108 & SP2&3:W36X160

FLOOR: ENCROACHMENTS: DECK (OUT TO OUT):
6 3/4 RC, 1 AWS --- 029.5

CLEAR ROADWAY: BETWEEN RAILS: SIDEWALK OR CURB:
026.0 029 .2 LT 01.6 RT 01.6

VERT.CL.OVER: VERT.CL.UNDER: HOR.CL.UNDER: SPECIAL PERMIT:
99 FT 99 IN 15 FT 09 IN 45.3 FT ---

INV.RTG.: OPE.RTG.: CONTR.MEMBER: POSTED:
H - 27 H - 46 --- SV --- TTST --- DATE 10 27 81

SYSTEM: GREEN LINE ROUTE:
8 URBAN-PRIMARY NO

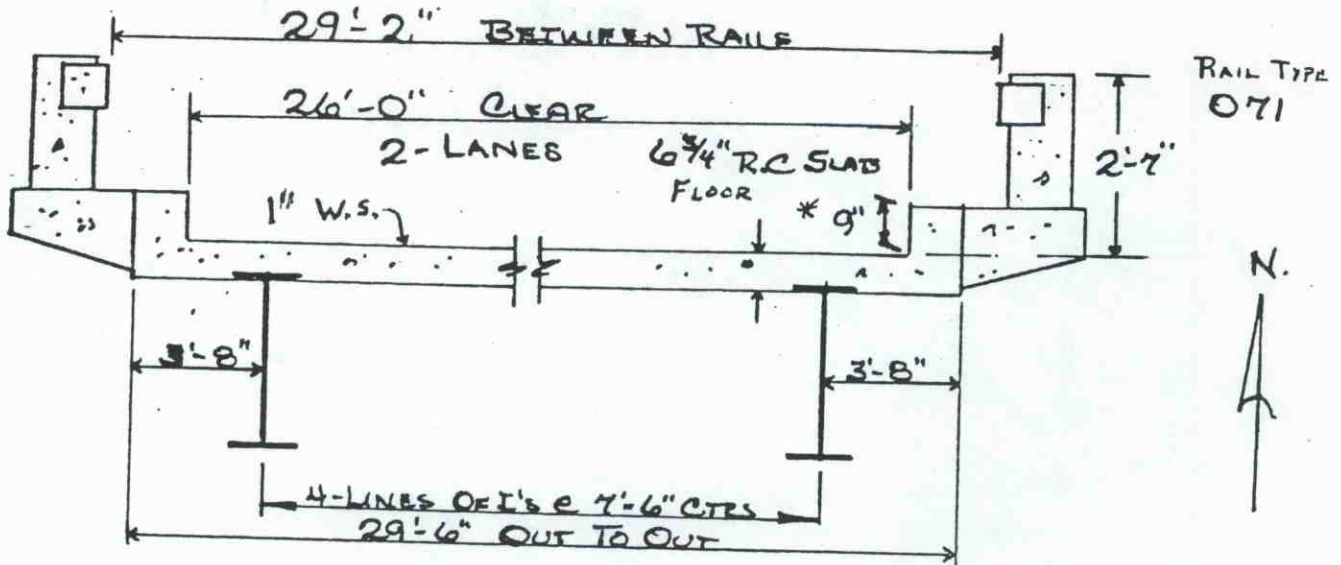
2ND OPENING: 3RD OPENING: 4TH OPENING: 5TH OPENING:
1510 US74-WBL --- --- ---

REMARKS:

STRUCTURE DATA WORKSHEET

BR. # 34

UNION CO.



* FROM A.W.S.

NOTE: FILLED JOINT EXPANSIONS

NOTE: I-BEAMS SIZES

SPANS A & D - W.30X108

SPANS B & C - W.36X160

NO NOTICEABLE CHANGE - SEE PLANS

SPAN LENGTHS & TOTAL LENGTH

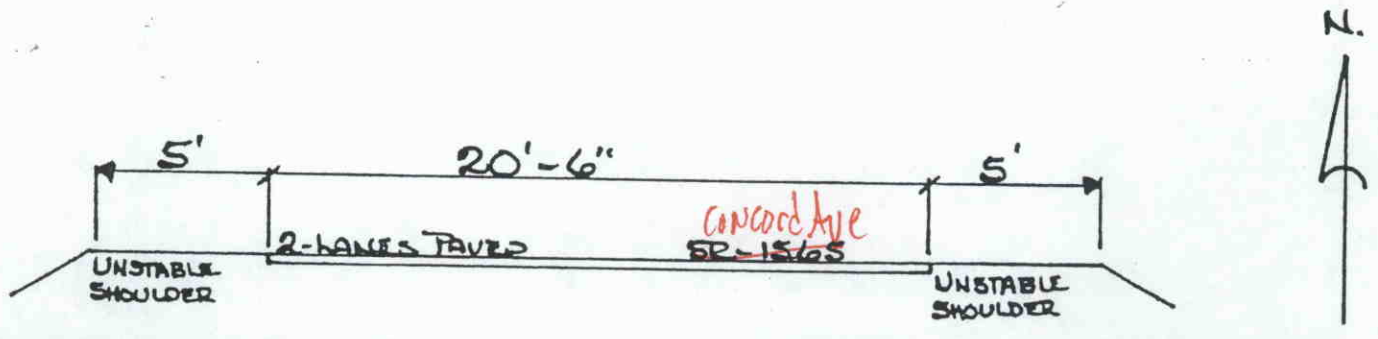
1-c37'-6" 2-c52'-6" 1-c37'-6" (180'-0" TOTAL)

SPAN LENGTHS ~ BRG. TO BRG.

FIELD SKETCH FOR VERTICAL AND HORIZONTAL CLEARANCES

BRIDGE NO. 34 COUNTY UNION DATE 2-26-97 BY JH

APPROACH ROADWAY WIDTH (SIA&R ITEM 32)



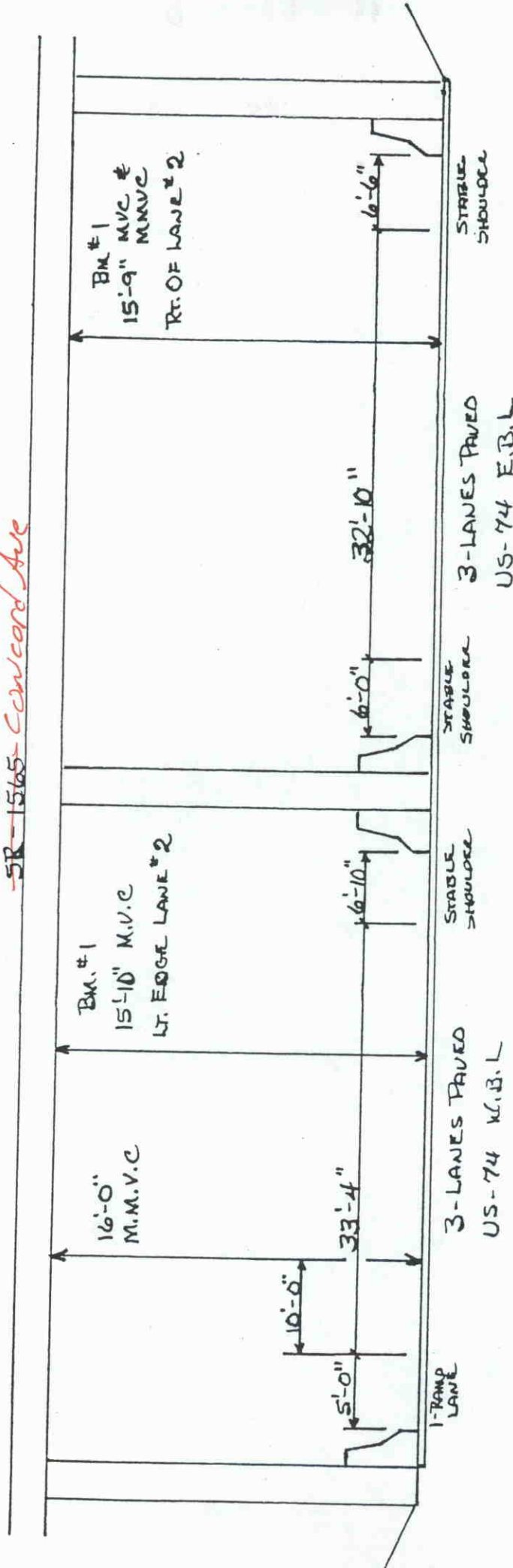
UNDERCLEARANCE (SIA&R ITEMS 10, 20, 38, 39, 40, 47, 54, 55 & 56)

SEE ATTACHED SHEET.

BR. NO 34

UNION CO.

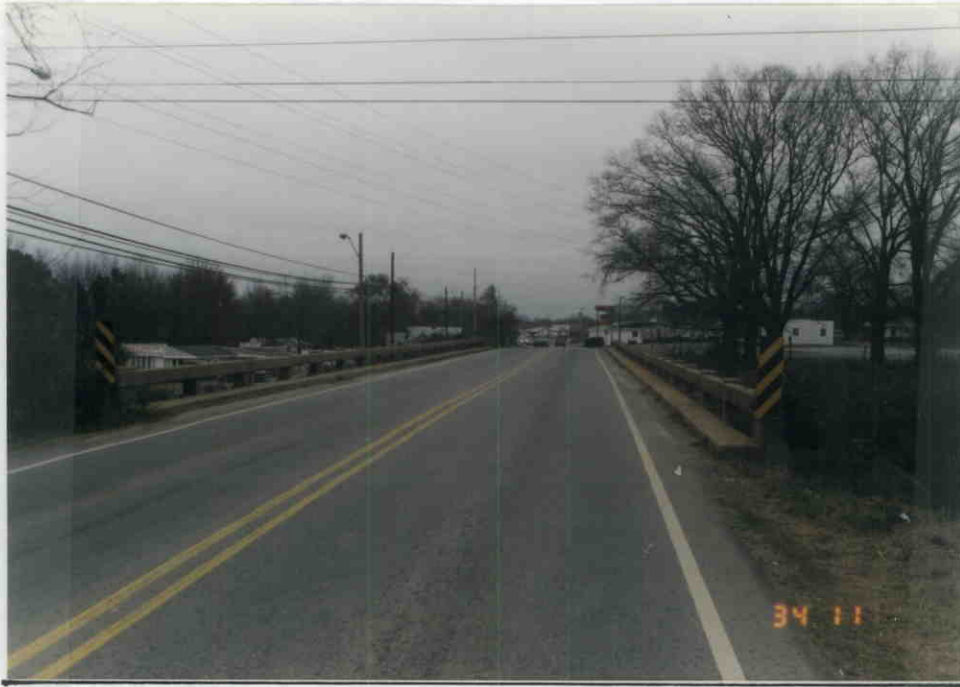
NORTH TO SR-1623
SR-1565 - Concord Ave



LOOKING EAST

NOT TO SCALE

PHOTO
#



↑
S

PHOTO
#



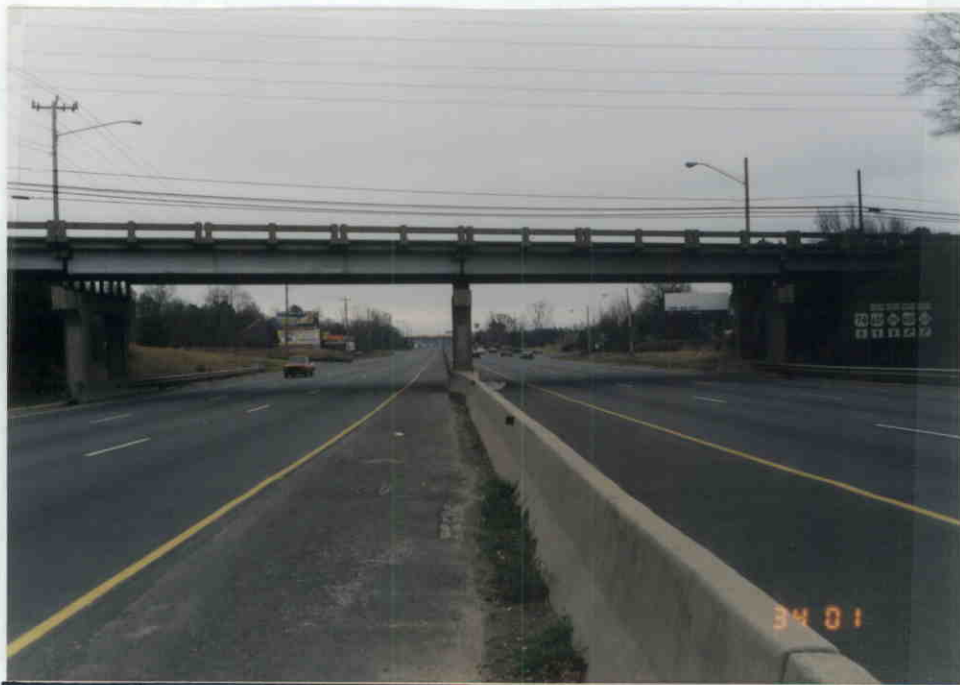
↑
N

PHOTO



W
↑

PHOTO



E
↑

PHOTO
#



ABUT. # 1 # 2 SIMILAR

PHOTO
#



PIER # 1 # 243 SIMILAR