

## FILL FACE @ JOINT @ BENT CONTROL LINE -END BENT 1 GUTTERLINE -"B" BARS — ``B'' BARS -Q JOINT @ -#16 \`B'' BARS END BENT 1-SEE DETAIL "A" #16S3 (PLACED — **#**16S3 — #16S1 AS SHOWN ) \_\_\_ #16S1 - #16S2 -<del>----</del> #16S2

300mm SPACES

#16S1 & #16S2 BARS

PLAN AT RIGHT SIDE END BENT 1 (LEFT SIDE END BENT 2 SIMILAR)

1.240m

¥16S4

300 300 300

PLAN AT LEFT SIDE END BENT 1 (RIGHT SIDE END BENT 2 SIMILAR)

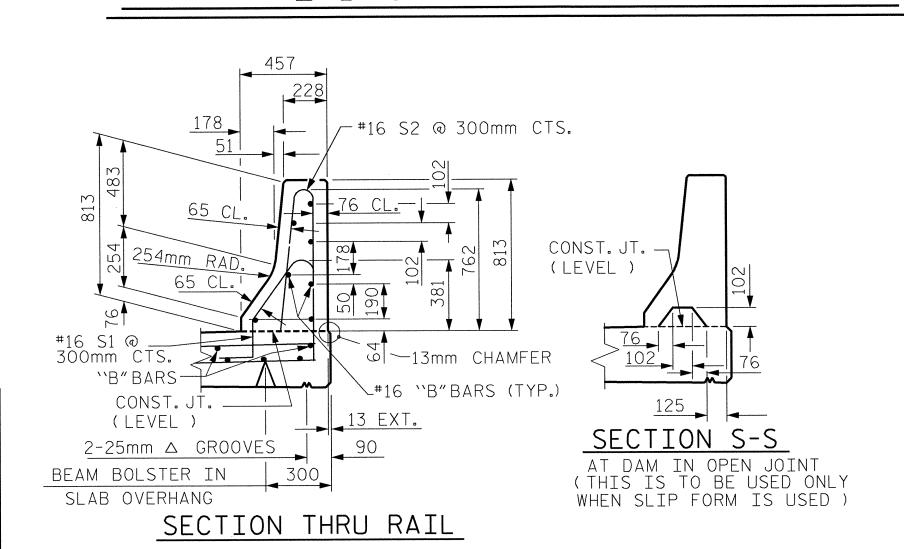
PLAN AT RIGHT SIDE BENT 1 & BENT 2

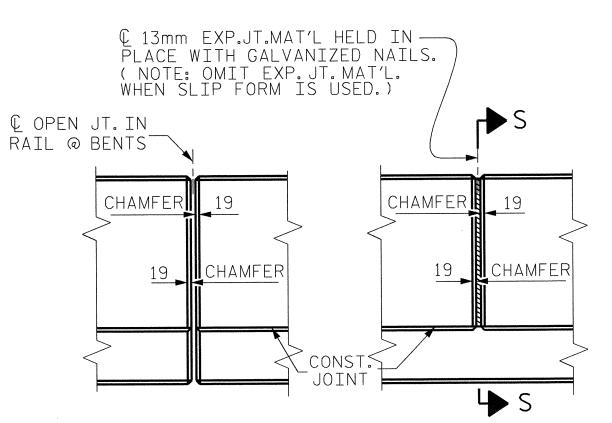
1.240m

\_100 | V\_#16S4 -

PLAN AT LEFT SIDE BENT 1 & BENT 2

## END OF RAIL DETAILS





300mm SPACES

#16S1 & #16S2 BARS

ELEVATION AT EXPANSION JOINTS BARRIER RAIL DETAILS

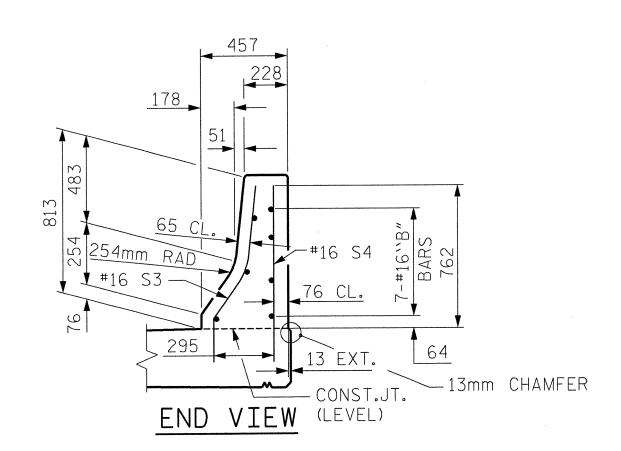
## NOTES

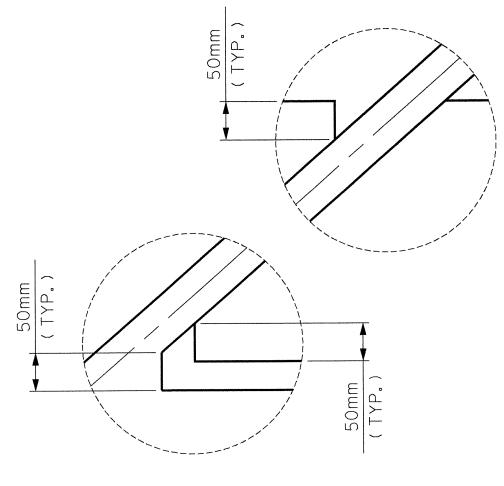
THE BARRIER RAIL IN EACH SPAN SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THAT SPAN HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 20.7 MPa.

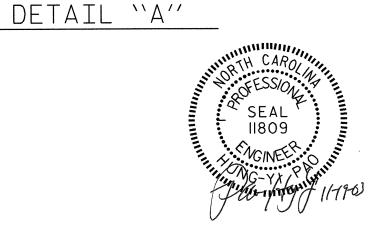
ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

DUE TO THE USE OF ARMORED EVAZOTE JOINTS THE #16S3 AND #16S4 BARS SHALL BE INSTALLED AT THE SAME TIME AS THE #16S1 AND #16S2 BARS.

VERTICAL GROOVED CONTRACTION JOINTS, 12mm IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. THE CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS REQUIRED AT MIDPOINT OF BARRIER RAIL SEGMENTS LESS THAN 6.1m IN LENGTH AND NO CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 3.5m IN LENGTH.







BAR TYPES 318 214

ALL BAR DIMENSIONS ARE OUT TO OUT					
BILL OF MATERIAL					
FOR CONCRETE BARRIER RAIL ONLY					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
<b>★</b> B10	56	#16	STR	4920	428
<b>*</b> B11	56	#16	STR	4800	417
<b>★</b> B12	28	#16	STR	7380	321
<b>*</b> B13	56	#16	STR	4700	408
* S1	416	#16	1	1380	891
* S2	416	#16	2	1580	1020
* S3	18	#16	3	1020	28
* S4	18	#16	STR	960	27
* EPOXY COATED					
REINFORCING STEEL 3,540 kg					

CLASS AA CONCRETE 32.5 CU. METER

CONCRETE BARRIER RAIL

129.600 METERS

PROJECT NO. R-2610A CHATHAM COUNTY STATION: 27+85.488 -L-

SHEET 2 OF 2 STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE CONCRETE BARRIER RAIL (LEFT LANE BRIDGE )

REVISIONS 5-62 DATE: NO. BY: TOTAL SHEETS

STD. No. CBR1SM

H. PAO DRAWN BY: ARB 5/87 CHECKED BY: SJD 9/87

DATE: 7-10-03 EV.10/17/00 EV.5/7/03 RWW/LE RWW/JT

Stantec Consulting Services Inc.

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ASSEMBLED BY: M.J.OSTRISHKO DATE: 7-1-03

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STR.#2