

PLAN

**BAR TYPES**

ALL BAR DIMENSIONS ARE OUT TO OUT

**BILL OF MATERIAL**  
FOR CONCRETE BARRIER RAIL ONLY

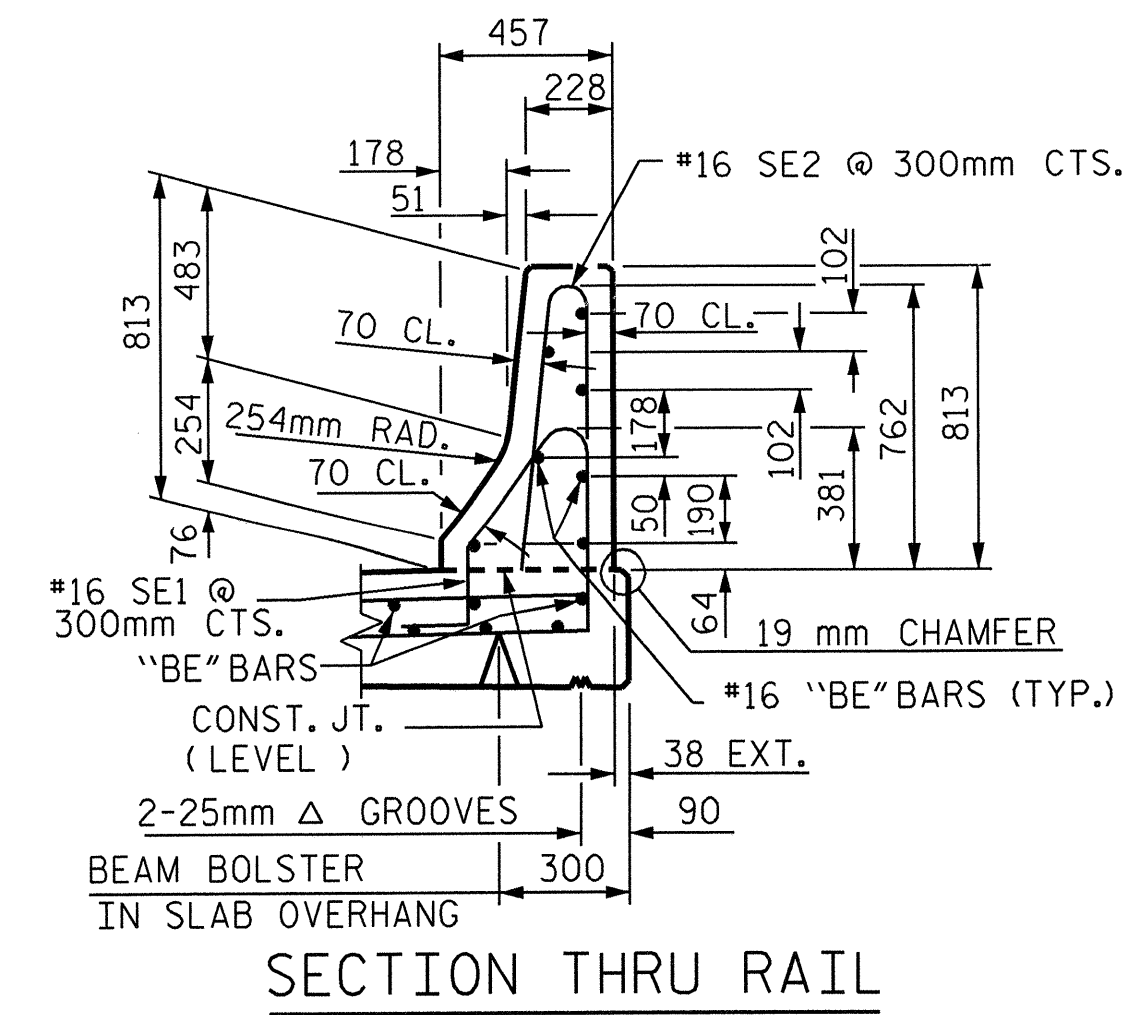
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
BE1	56	#16	STR	4700	409
BE2	98	#16	STR	7380	1123
BE3	14	#16	STR	6580	143
BE4	56	#16	STR	7980	694
SE1	720	#16	1	1440	1609
SE2	720	#16	2	1580	1766
EPOXY COATED REINFORCING STEEL					5,744 kg
CLASS AA CONCRETE					54.3 CU. METER
CONC. BARRIER RAIL					216.184 LIN. METERS

**NOTES:**

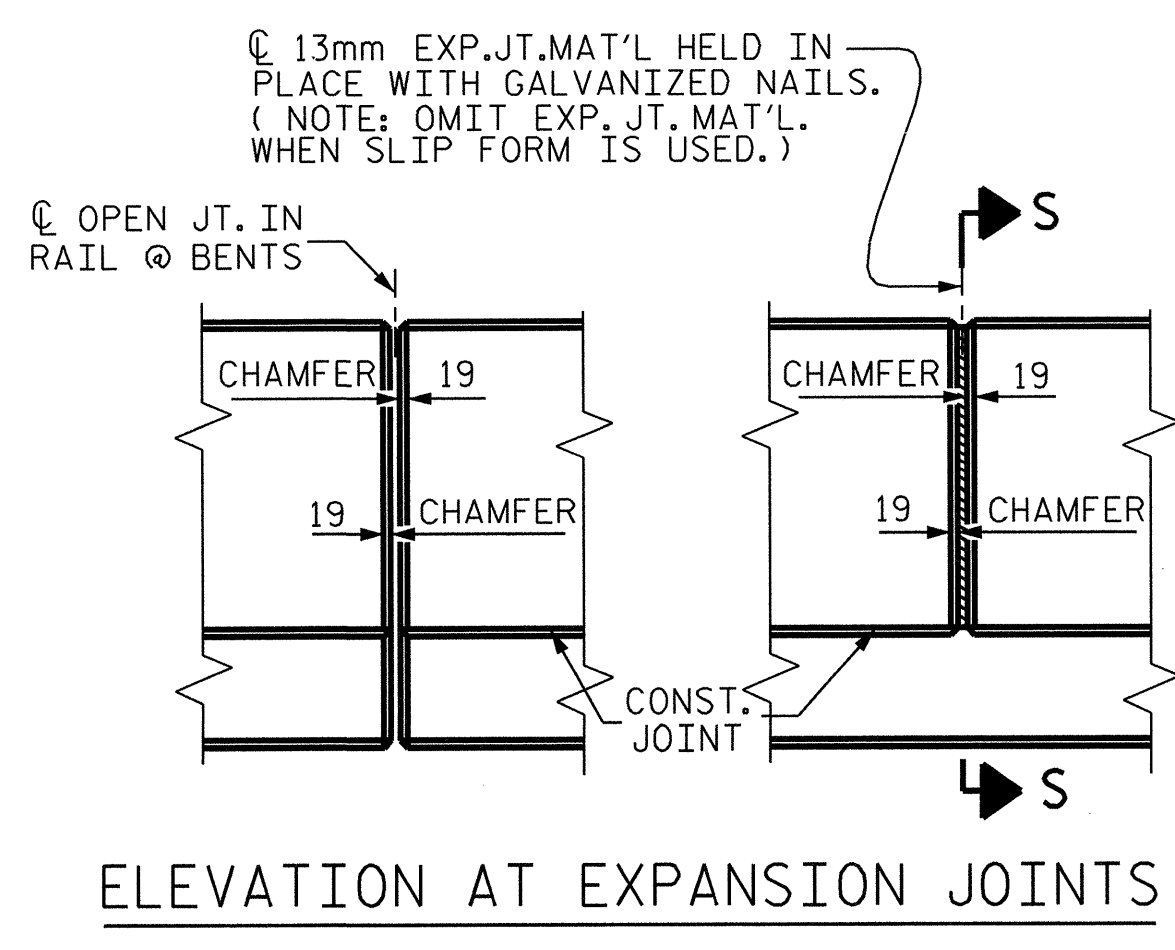
THE BARRIER RAIL IN EACH SPAN SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THAT SPAN HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 20.7 MPa.

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

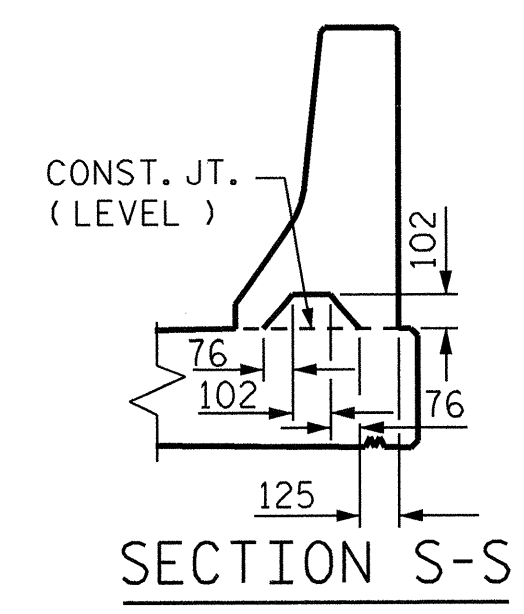
VERTICAL GROOVED CONTRACTION JOINTS, 12mm IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. THE CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE CONTRACTION 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.



SECTION THRU RAIL



ELEVATION AT EXPANSION JOINTS



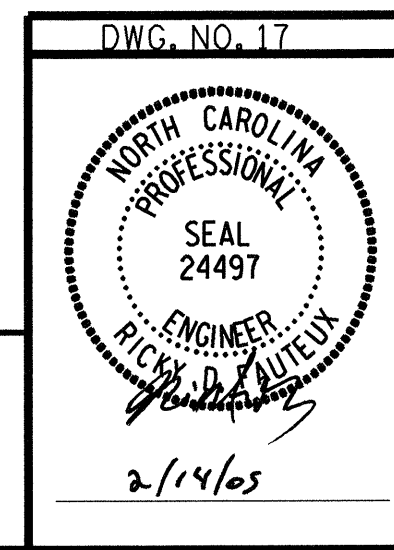
SECTION S-S

AT DAM IN OPEN JOINT (THIS IS TO BE USED ONLY WHEN SLIP FORM IS USED)

**BARRIER RAIL DETAILS**

ASSEMBLED BY :	F.D. WEEDEN	DATE :	01/05
CHECKED BY :	R.D. FAUTEUX	DATE :	01/05
DRAWN BY :	ARB 5/87	REV. 8/16/99	RWW/LES
CHECKED BY :	SJD 9/87	REV. 10/17/00	RWW/LES
		REV. 5/7/03R	RWW/JTE

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PROJECT NO. R-2552AA  
WAKE / JOHNSTON COUNTY  
STATION: 19+25.877 -I1Y1- P.O.T.

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

**STANDARD CONCRETE BARRIER RAIL**

JANUARY 2005

REVISIONS				SHEET NO.
NO.	BY:	DATE:	NO.	DATE:
1			3	
2			4	

S-17  
TOTAL SHEETS  
429

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