

NOTES

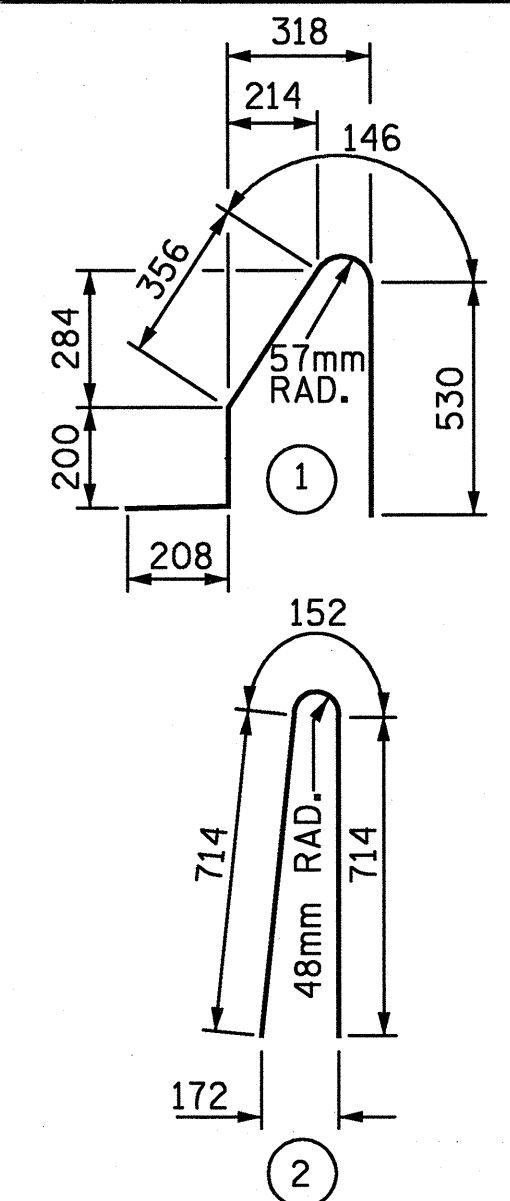
THE BARRIER RAIL IN EACH UNIT SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THAT UNIT HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 20.7 MPa.

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.

FOR PLAN, SEE SHEET 2 OF 2.

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

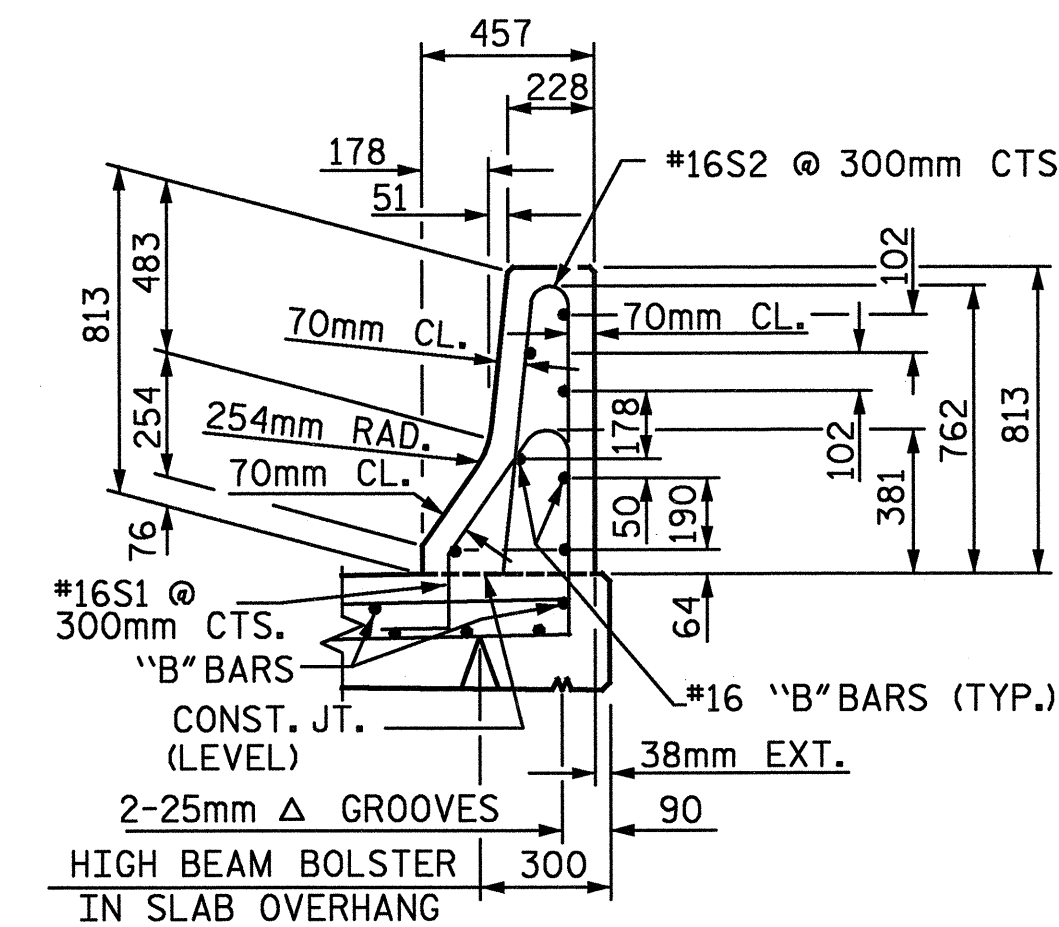
BILL OF MATERIAL

FOR CONCRETE BARRIER RAIL ONLY

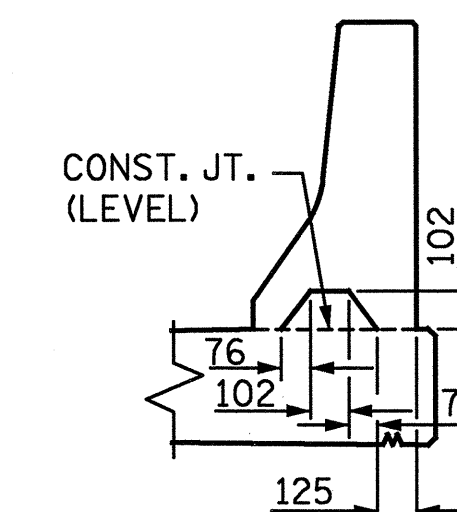
BAR	NO.	SIZE	TYPE	LENGTH (mm)	MASS (kg)
*S1	479	#16	(1)	1,440	1,071
*S2	479	#16	(2)	1,580	1,175
*B1	119	#16	STR.	7,480	1,381
*B2	7	#16	STR.	7,600	83
*B3	7	#16	STR.	4,300	47
*B4	7	#16	STR.	2,160	23

EPOXY COATED REINFORCING STEEL	3,780 kg
CLASS AA CONCRETE	36.1 CU. METER
CONCRETE BARRIER RAIL	143.729 METERS

* DENOTES EPOXY COATED REINFORCING STEEL.

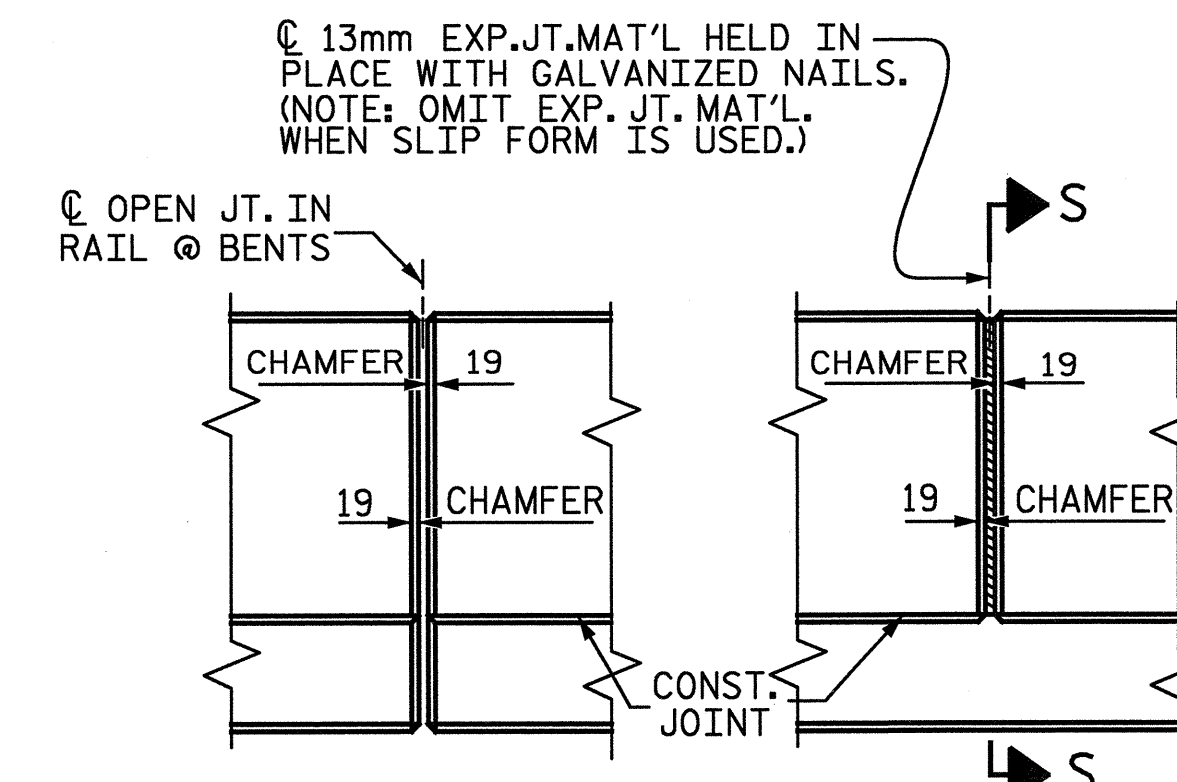


SECTION THRU RAIL



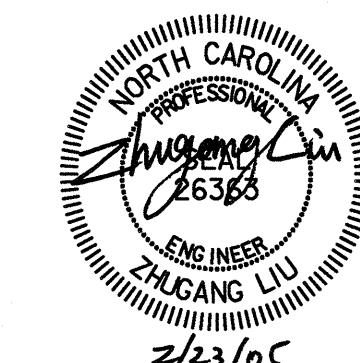
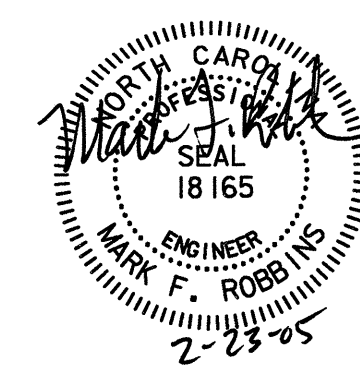
SECTION S-S

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



ELEVATION AT EXPANSION JOINTS
BARRIER RAIL DETAILS

PROJECT NO. R-2552C
JOHNSTON COUNTY
STATION: POS 16+52.599 -Y4- =
POC 9+28.021 -FLYOVER-
SHEET 1 OF 2



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
STANDARD
CONCRETE
BARRIER RAIL

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS
2			4			431

STD. No. CBR1SM

02/23/2005 10:26:41 AM r:\p\p\309-300\station\struct\finch\309-300_cbr_1.dgn

ASSEMBLED BY : WBS, LGH	DATE : 10-04
CHECKED BY : TVR	DATE : 12-04
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

D-1748.19

2/23/05