

**NOTES**

THE BARRIER RAIL IN THE CONTINUOUS UNIT SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THAT CONTINUOUS UNIT HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.

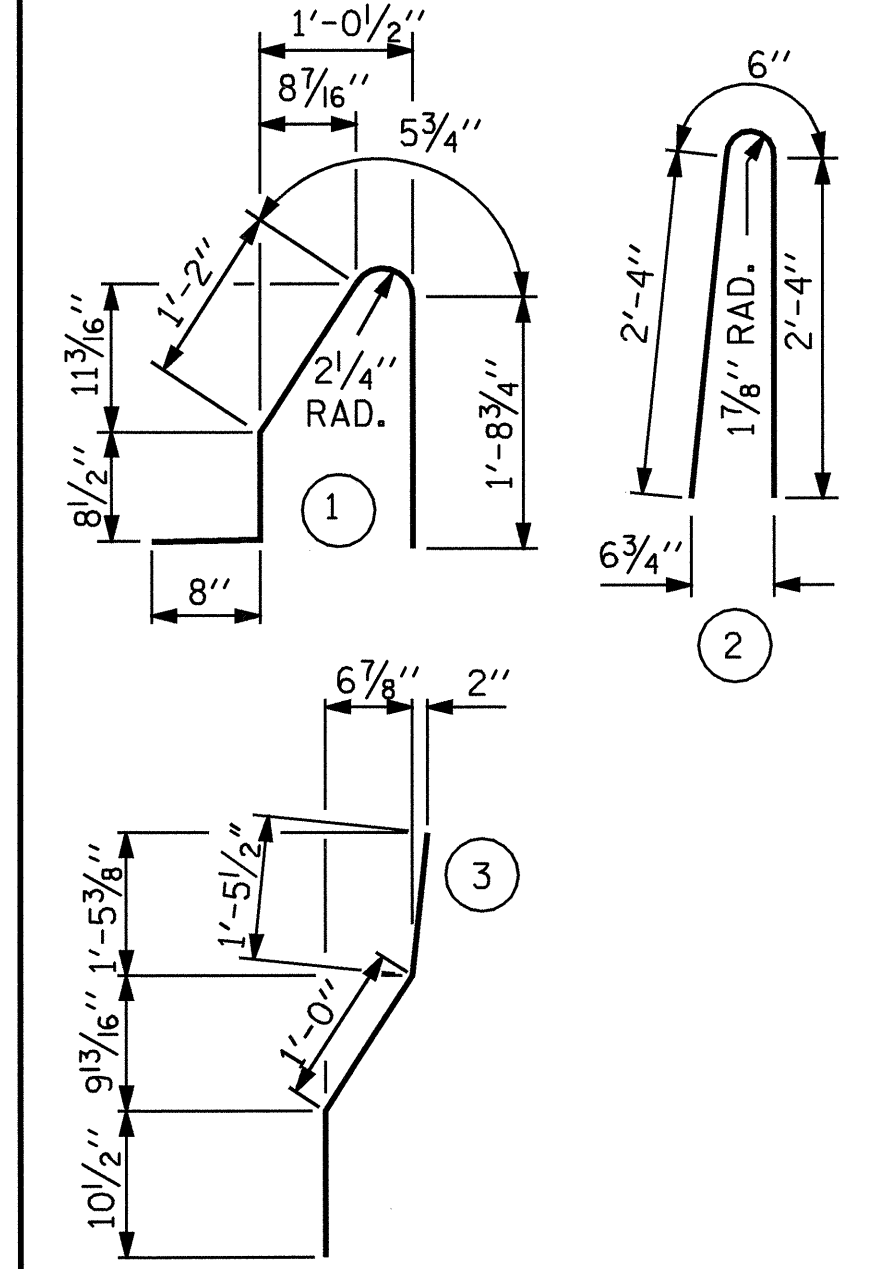
WHEN EVAZOTE JOINT SEAL IS REQUIRED, THE JOINT IN THE DECK SHALL BE SAWED PRIOR TO THE CASTING OF BARRIER RAIL.

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

THE #5 S3 AND #5 S4 BARS SHALL BE INSTALLED, USING AN ADHESIVE ANCHORING SYSTEM, AFTER SAWING THE JOINT. FOR ADHESIVELY ANCHORED ANCHOR BOLTS OR DOWELS, SEE SPECIAL PROVISIONS. THE YIELD LOAD FOR THE #5 S3 AND #5 S4 BARS IS 18.6 KIPS. FIELD TESTING FOR THE ADHESIVE BONDING SYSTEM IS NOT REQUIRED.

VERTICAL GROOVED CONTRACTION JOINTS, 1/2" 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. A JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE JOINT IS REQUIRED AT MIDPOINT OF BARRIER RAIL SEGMENTS LESS THAN 20 FEET IN LENGTH AND NO JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 10 FEET IN LENGTH.

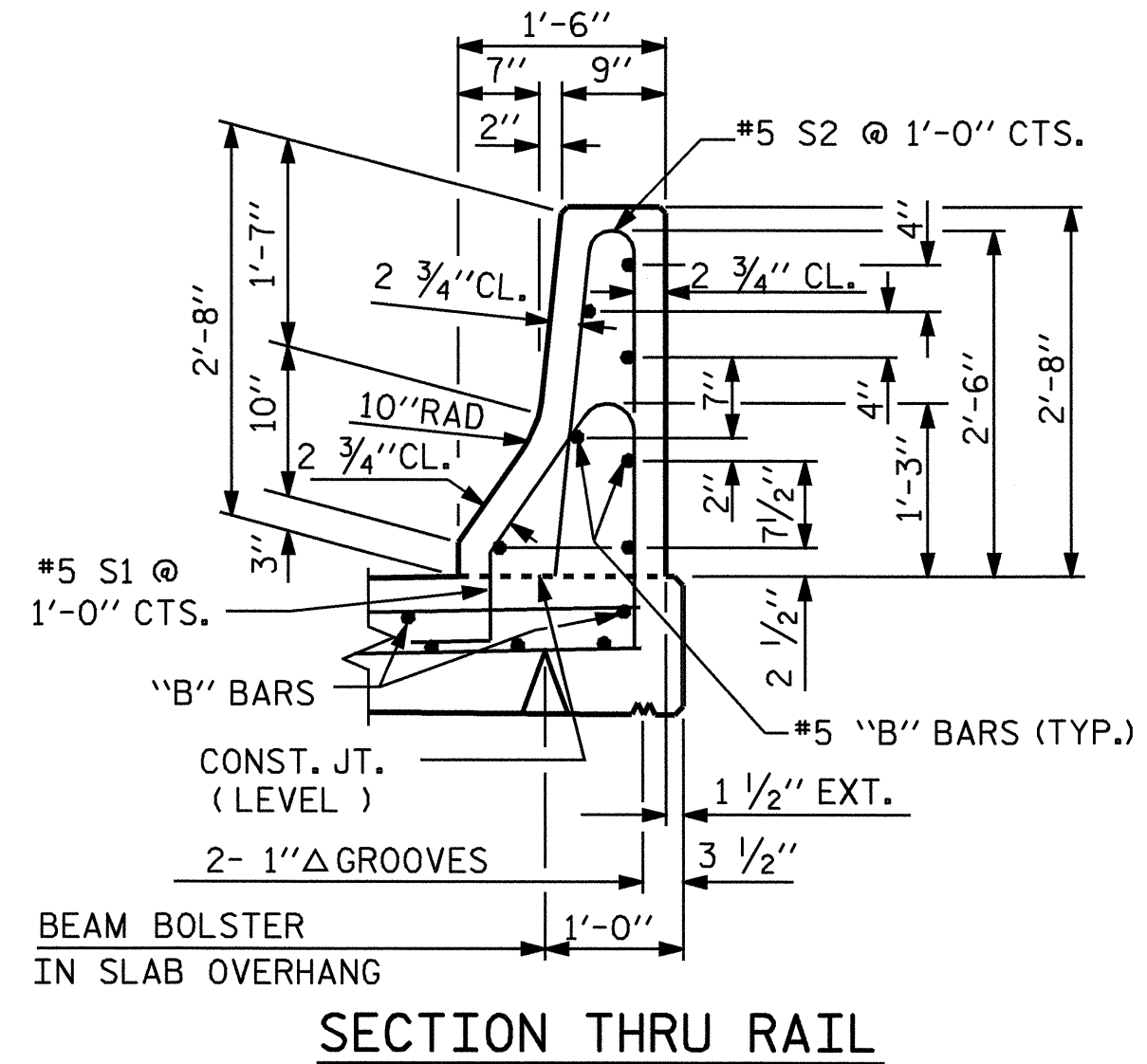
**BAR TYPES**



ALL BAR DIMENSIONS ARE OUT TO OUT

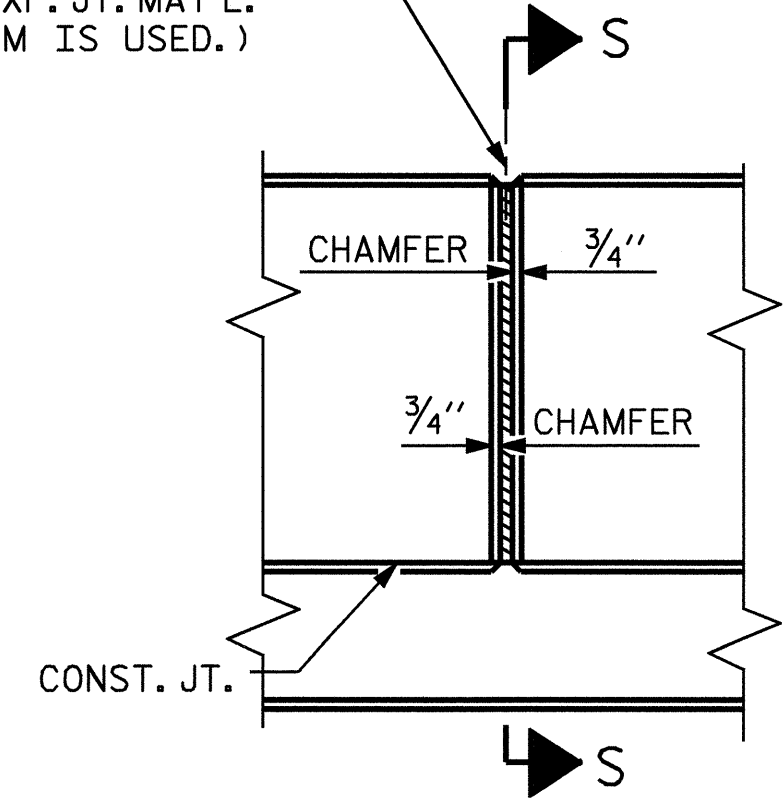
**BILL OF MATERIAL**

FOR CONCRETE BARRIER RAIL ONLY					
BAR NO.	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B1	28	#5	STR	19'-1"	557
* B2	42	#5	STR	21'-3"	931
* B3	28	#5	STR	26'-7"	776
* S1	306	#5	1	4'-9"	1516
* S2	306	#5	2	5'-2"	1649
* S3	12	#5	3	3'-4"	42
* S4	12	#5	STR	3'-2"	40
* EPOXY COATED REINFORCING STEEL					5511 LBS.
CLASS AA CONCRETE					31.6 CU. YDS.
CONCRETE BARRIER RAIL					315.83 LIN. FT.

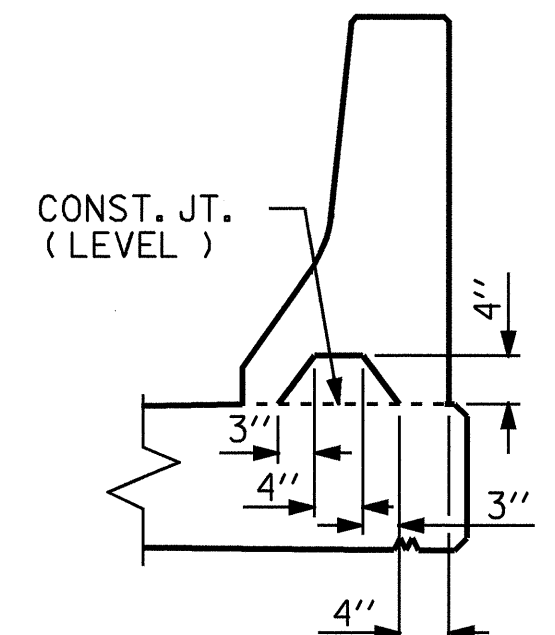


**SECTION THRU RAIL**

@ 1/2" EXP. JT. MAT'L HELD IN PLACE WITH GALVANIZED NAILS.  
( NOTE: OMIT EXP. JT. MAT'L WHEN SLIP FORM IS USED.)



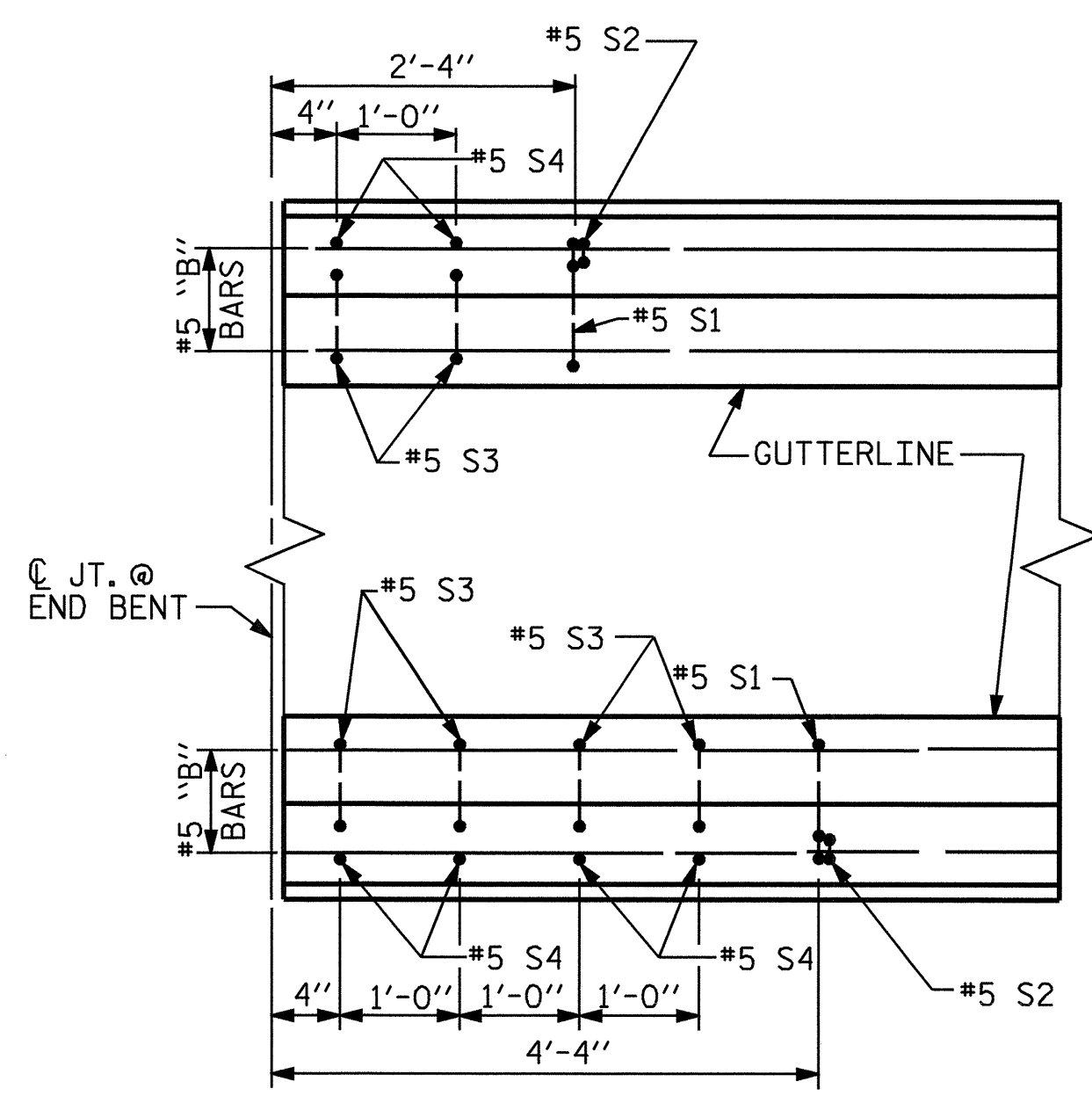
**ELEVATION AT EXPANSION JOINTS**



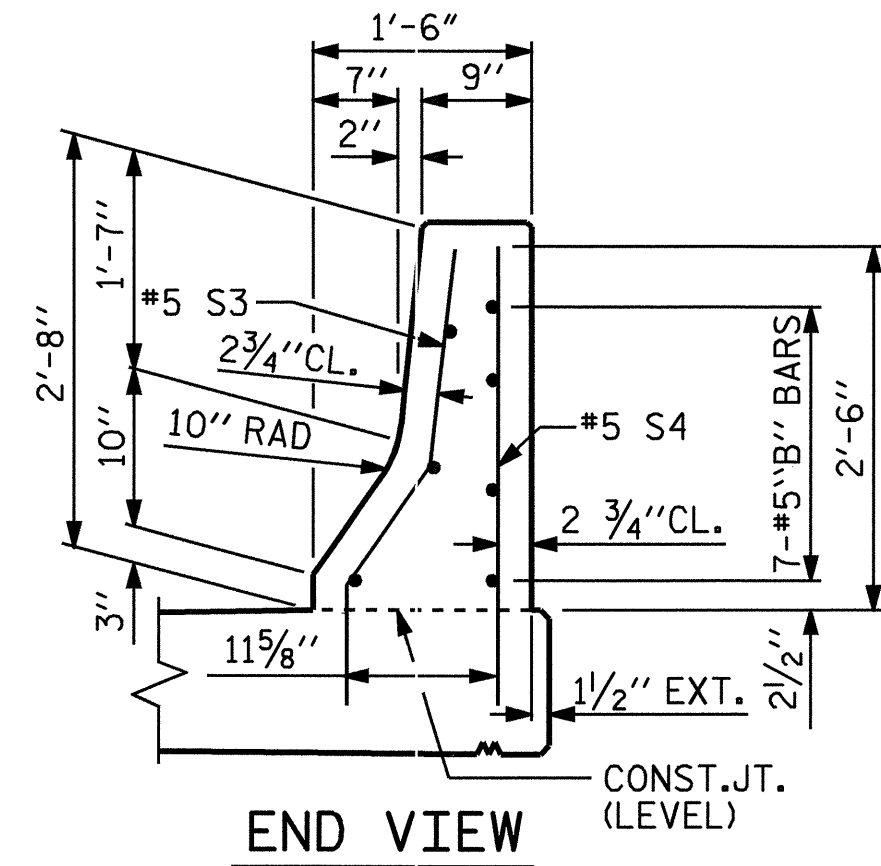
**SECTION S-S**

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

**BARRIER RAIL DETAILS**



**PLAN**

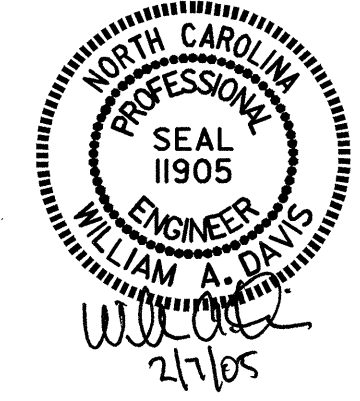


**END VIEW**

**END OF RAIL DETAILS**

FOR ADHESIVE ANCHORING AT SAWED JOINTS

ASSEMBLED BY : James D. Hawk	DATE : 08/20/03
CHECKED BY : J.G. KHARVA	DATE :
DRAWN BY : ARB 5/87	REV. 7/17/98 RWW/LES
CHECKED BY : SJD 9/87	REV. 8/16/99 RWW/LES
	REV. 10/17/00 RWW/LES



PROJECT NO. B-3875  
MOORE COUNTY  
STATION: 17+70.00 -L-

SHEET 2 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		
2			4		

TOTAL SHEETS: 33