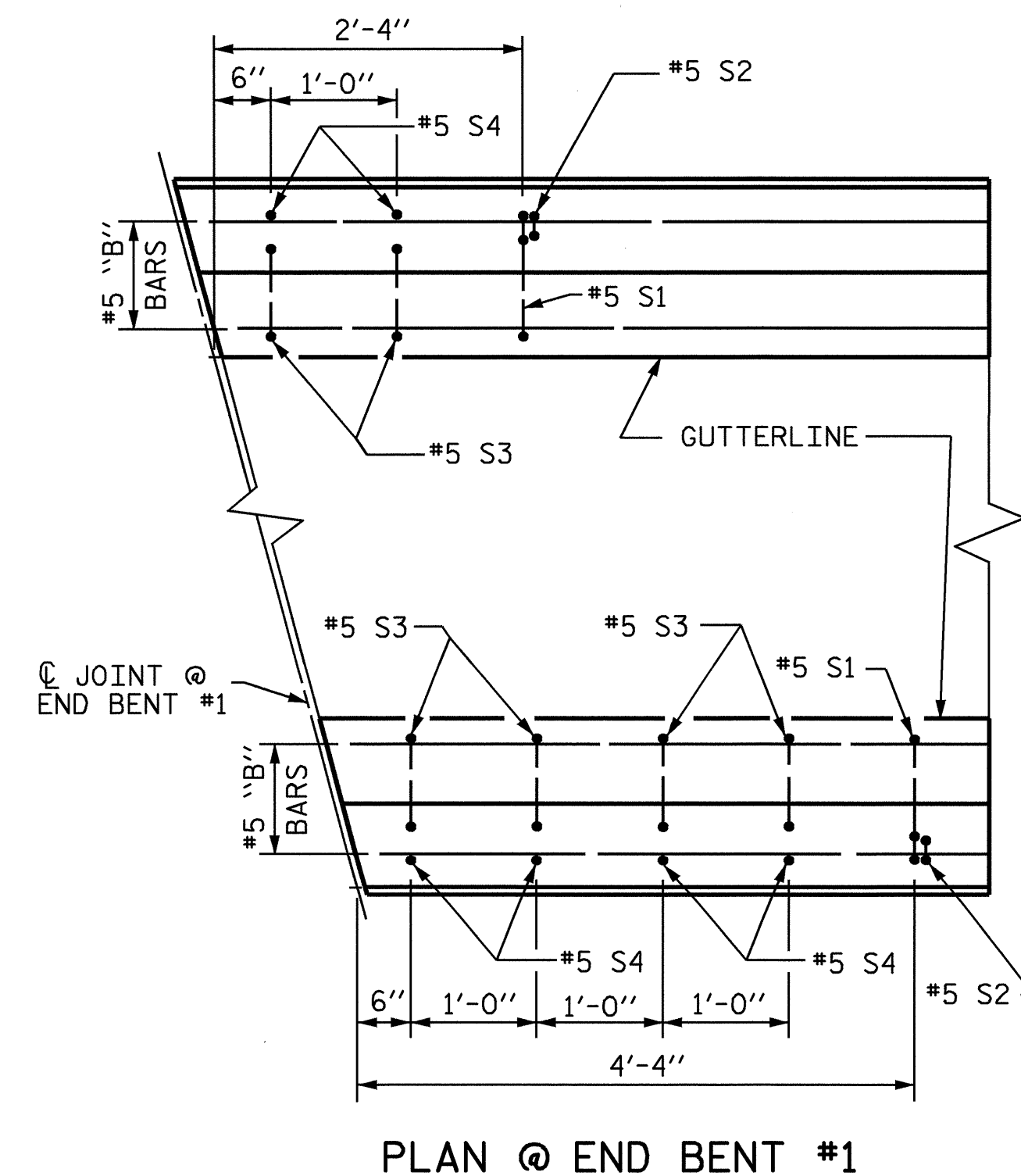
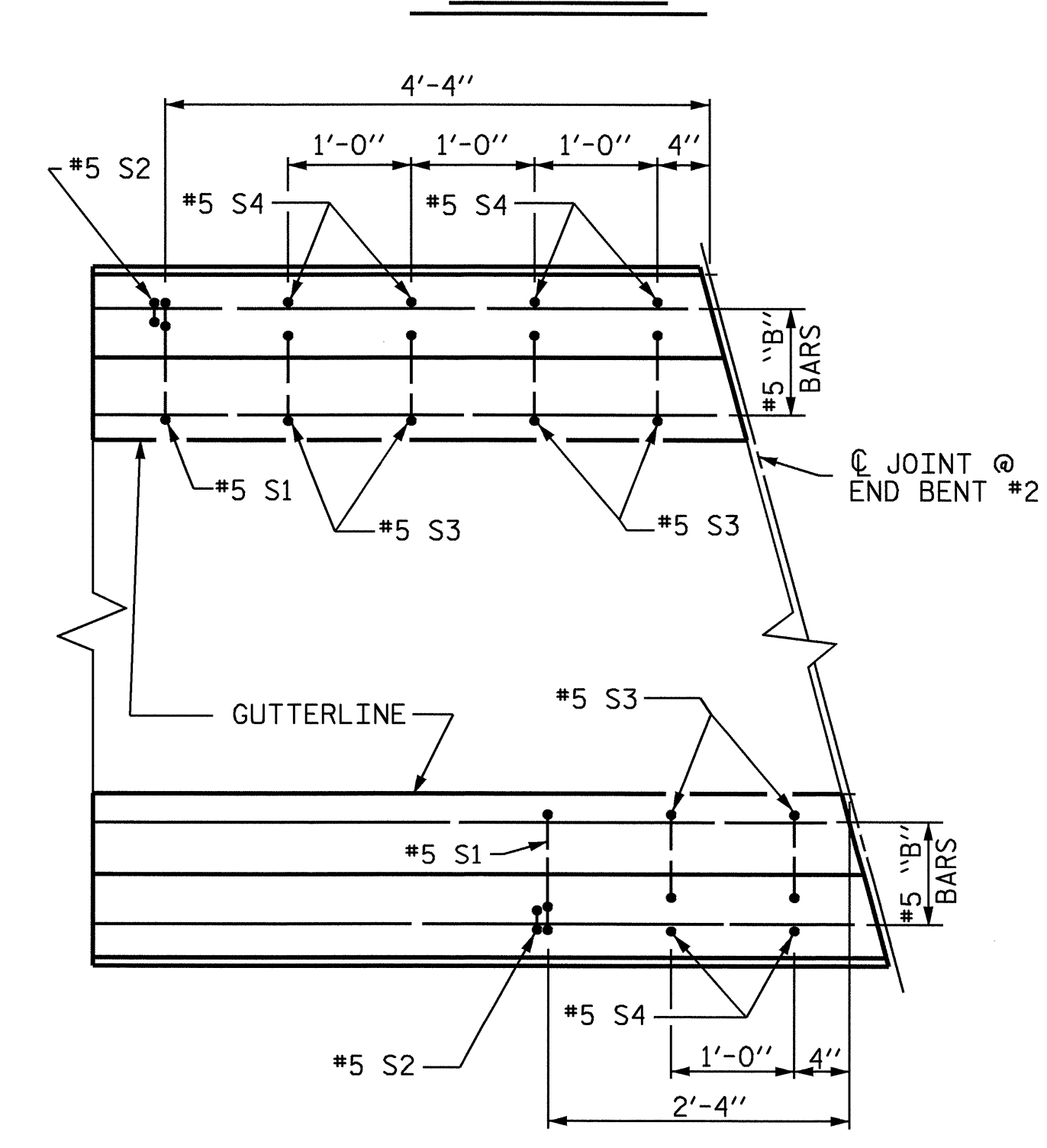


PLAN

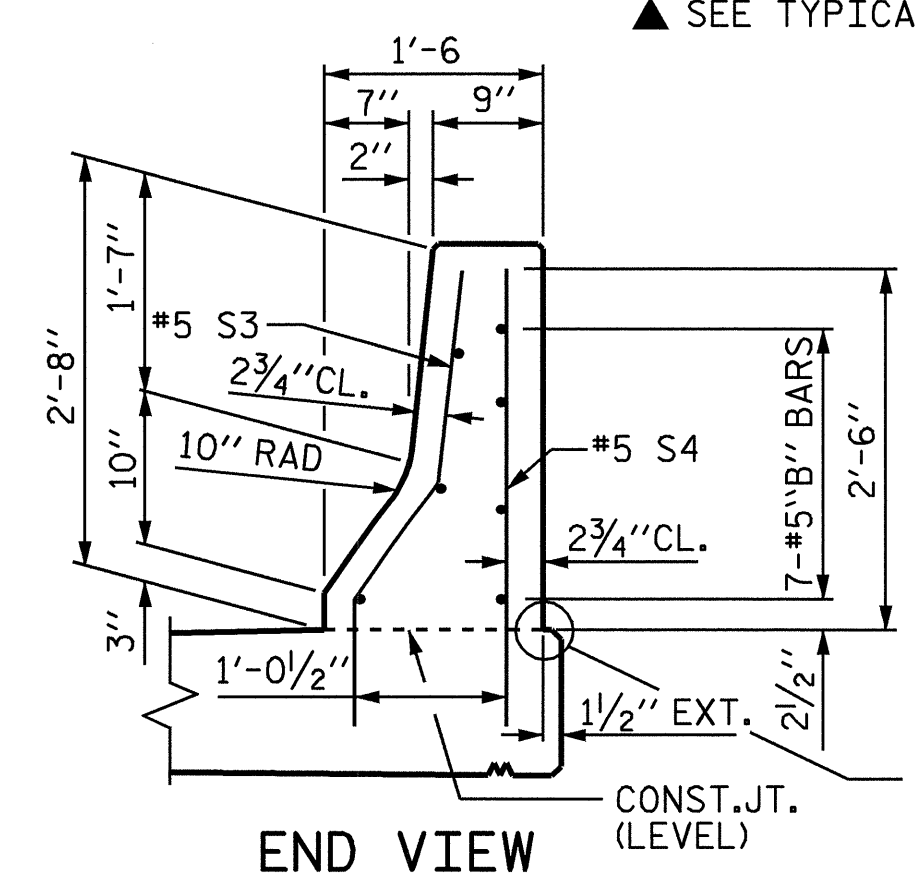


PLAN @ END BENT #1

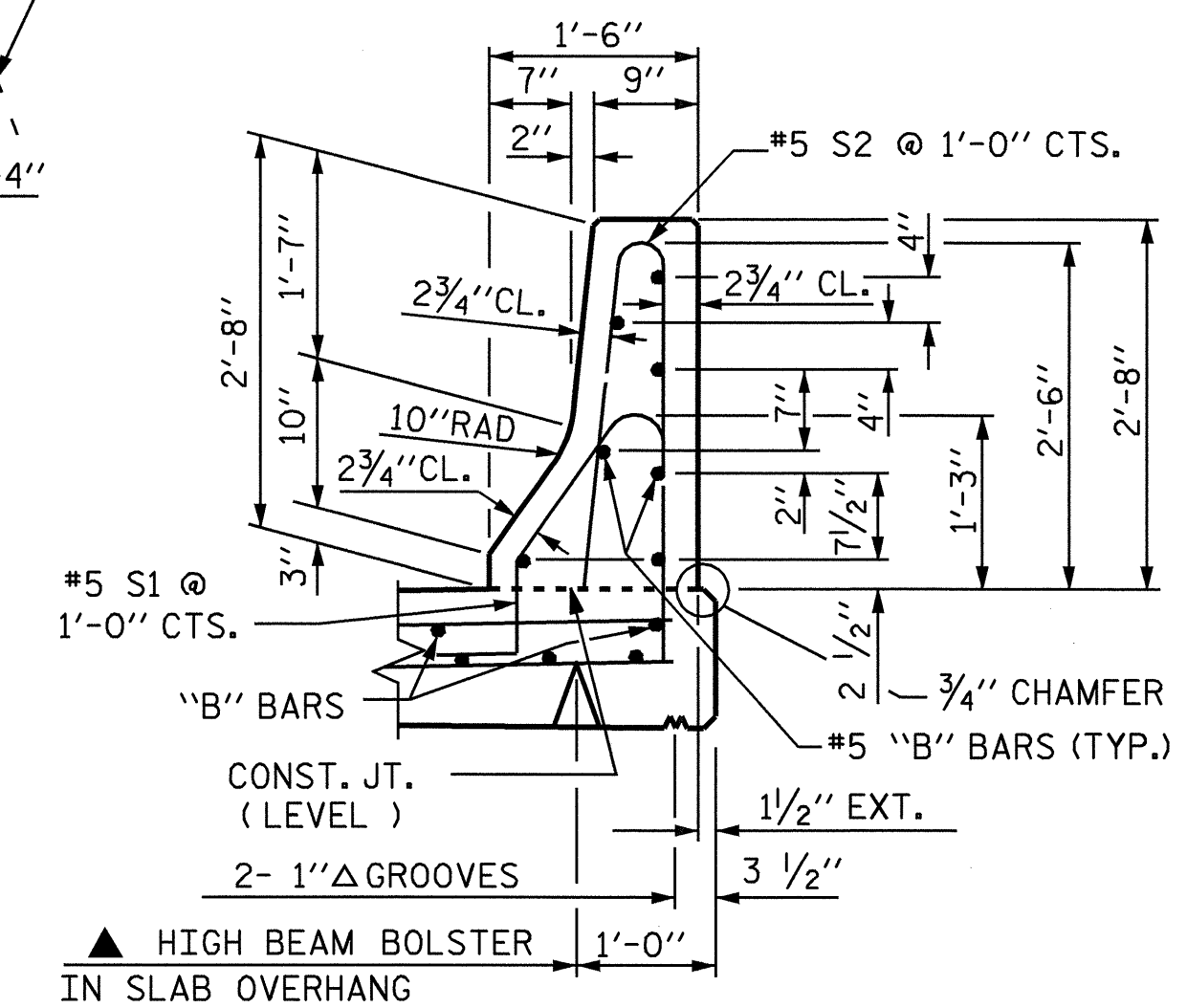


PLAN @ END BENT #2

END OF RAIL DETAILS
FOR ADHESIVE ANCHORING AT SAWED JOINTS



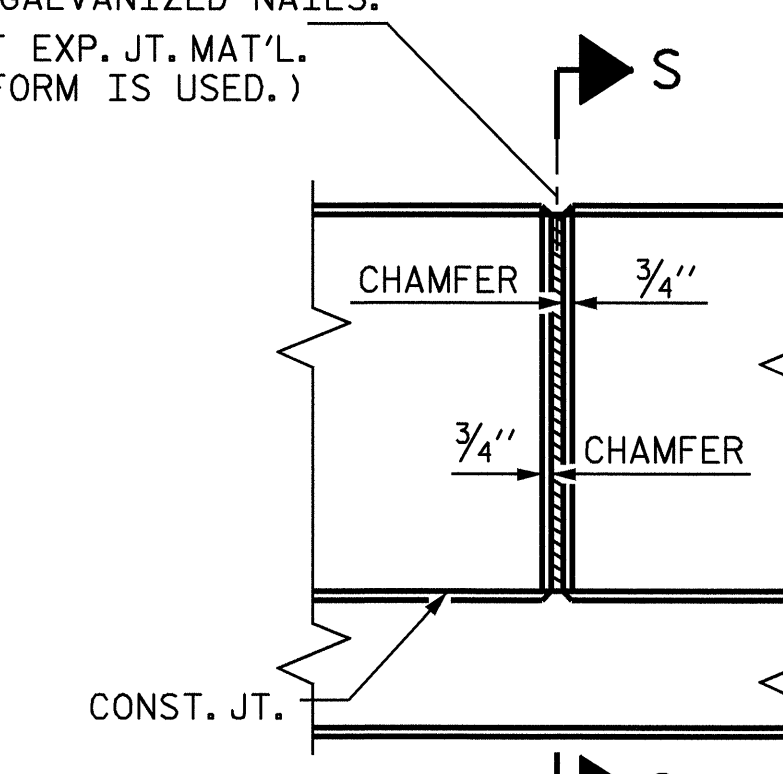
END VIEW



SECTION THRU RAIL

▲ SEE TYPICAL SECTION FOR HEIGHT OF THE BEAM BOLSTERS

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
BARRIER RAIL DETAILS

NOTES

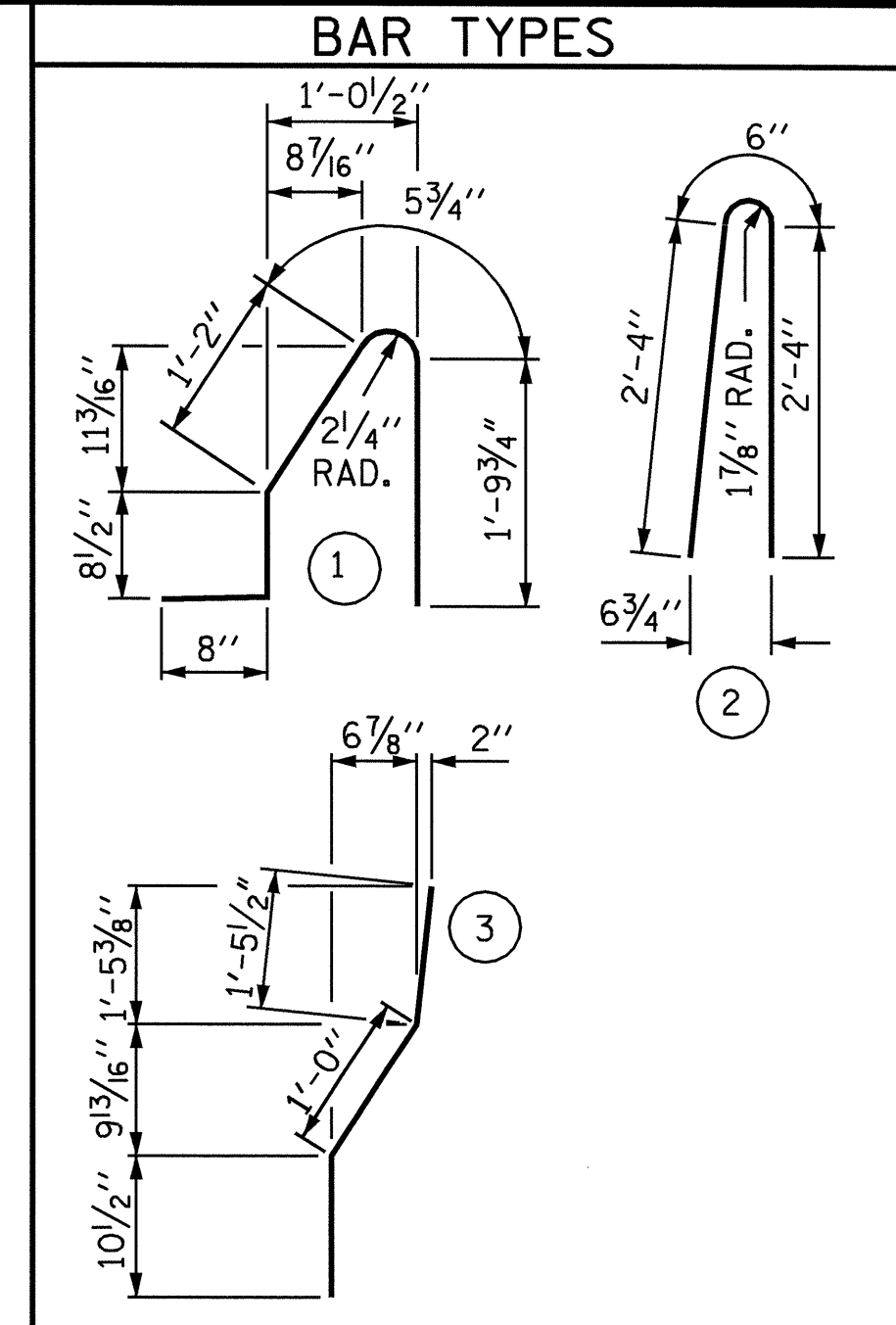
THE BARRIER RAIL IN EACH SPAN SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THAT SPAN HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.

WHEN COMPRESSION JOINT SEAL OR 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 AT END BENT #2 ONLY. 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. 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 20 FEET IN LENGTH AND NO CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 10 FEET IN LENGTH.



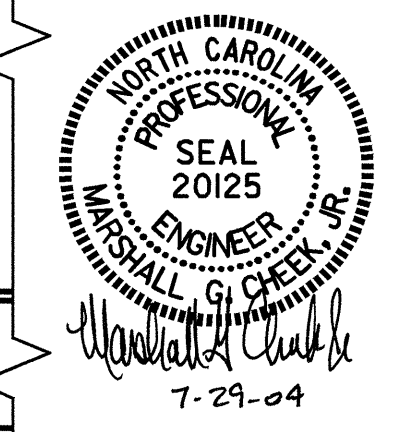
ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL
FOR CONCRETE BARRIER RAIL ONLY

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
*B1	28	#5	STR	11'-1"	324
*B2	140	#5	STR	27'-7"	4028
*B3	28	#5	STR	8'-1"	236
*S1	612	#5	1	4'-10"	3085
*S2	612	#5	2	5'-2"	3298
*S3	12	#5	3	3'-4"	42
*S4	12	#5	STR	3'-2"	40

* EPOXY COATED REINFORCING STEEL 11,053 LBS.
CLASS AA CONCRETE 62.4 CU. YDS.
CONCRETE BARRIER RAIL 623.48 LIN. FT.
* THESE BARS ARE EPOXY COATED.

PROJECT NO. B-4010
ASHE COUNTY
STATION: 20+93.60-L-



ASSEMBLED BY : L.L.MURPHY DATE : 01-04
CHECKED BY : D.HODGE DATE : 05-04
DRAWN BY : ARB 5/87 REV. 8/16/99 RWW/LES
CHECKED BY : SJD 9/87 REV. 10/17/00 RWW/LES
REV. 5/7/03 RWW/JTE

NO.		BY:	DATE:	REVISIONS		NO.		BY:	DATE:	SHEET NO.	
1				3						5-21	
2				4						TOTAL SHEETS	37

OCTOBER 1987