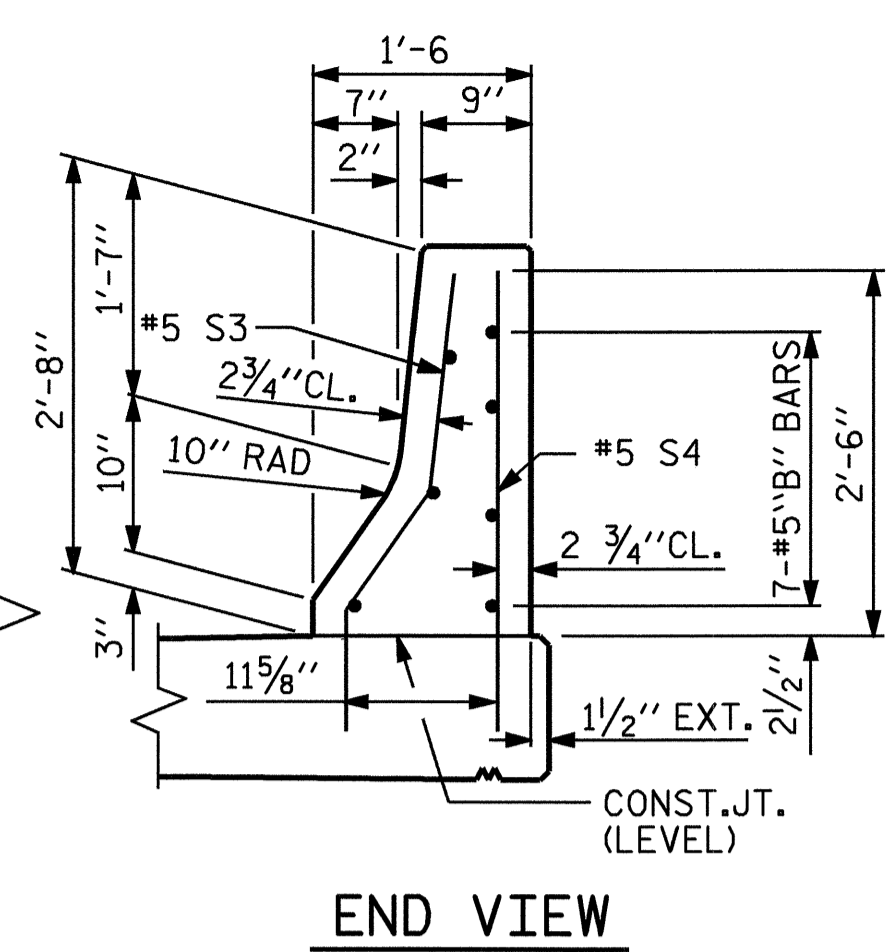


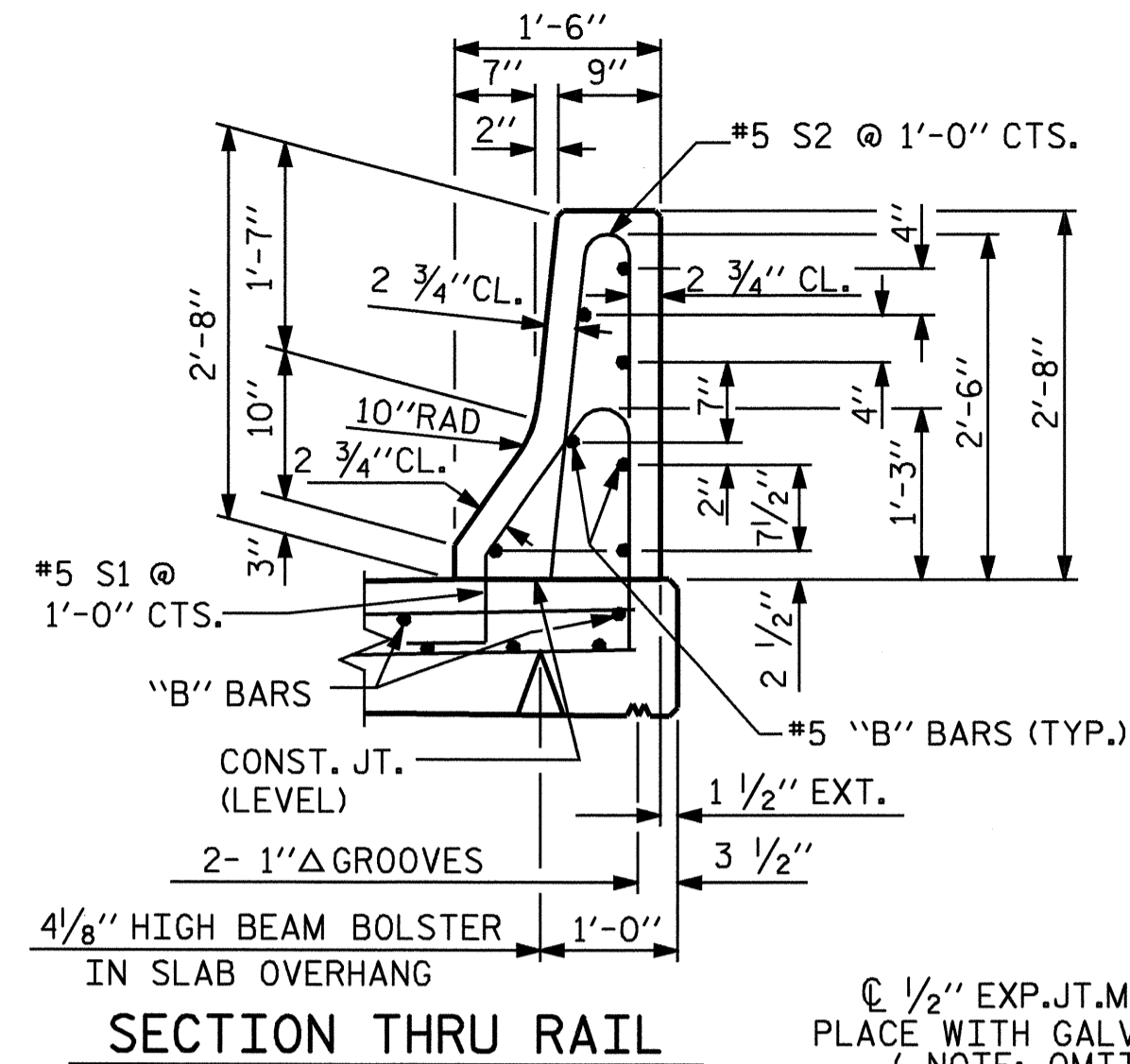
PLAN

END OF RAIL DETAILS

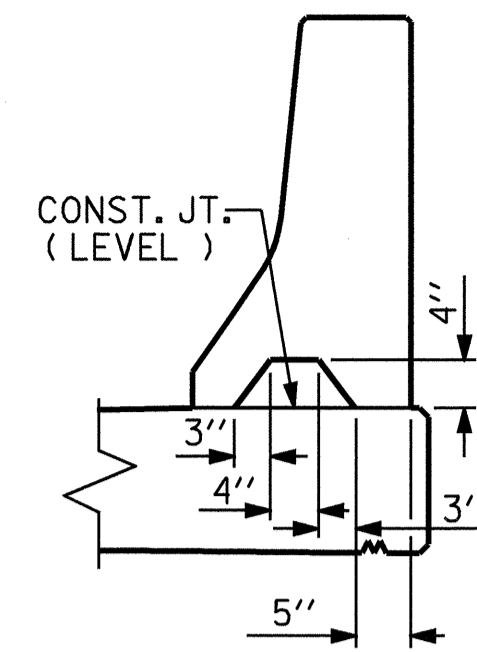
FOR ADHESIVE ANCHORING AT SAWED JOINTS



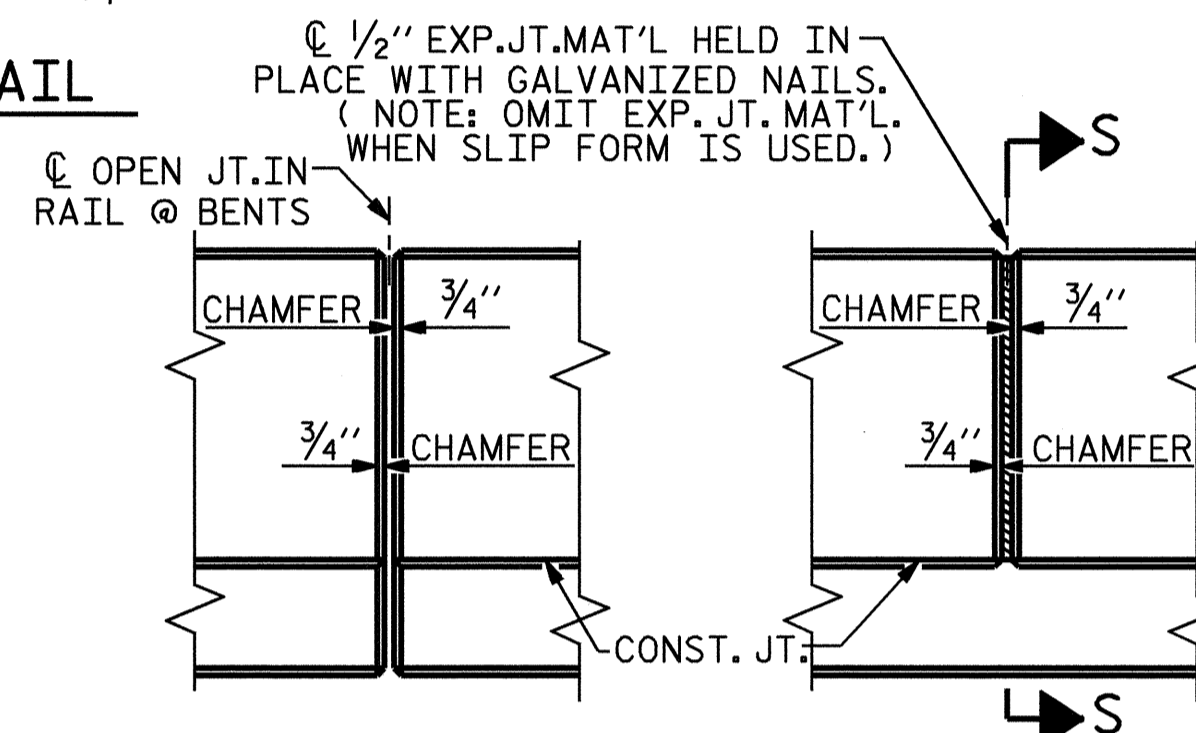
END VIEW



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

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.

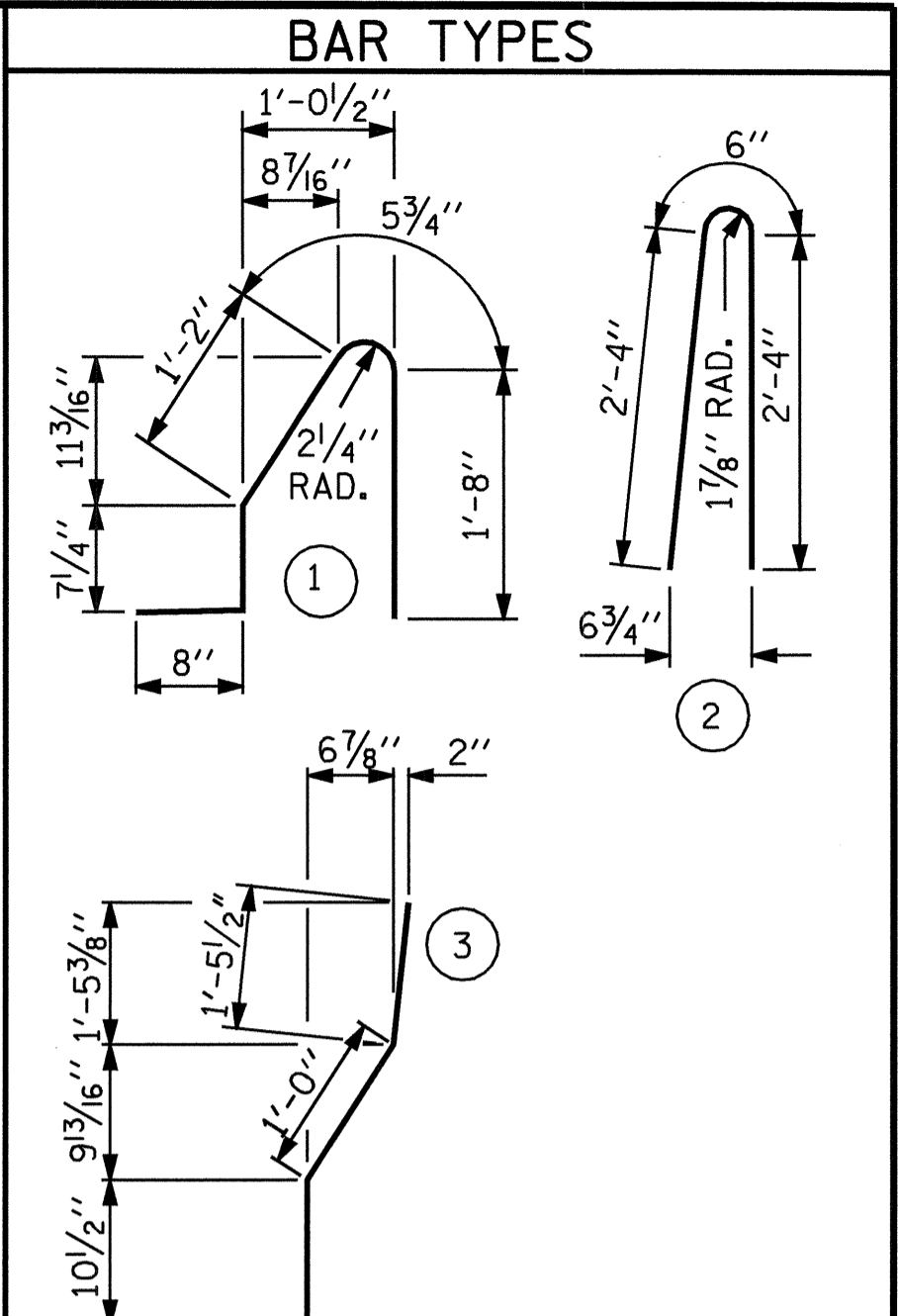
WHEN COMPRESSION JOINT SEAL OR EVAZOTE JOINT SEAL IS REQUIRED, THE JOINT IN THE DECK SHALL BE SAWED PRIOR TO THE CASTING OF BARRIER RAIL.

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

THE #5 S3 THRU #5 S6 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 THRU #5 S6 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.

THE #5 S1 & S2 BARS MAY BE SHIFTED SLIGHTLY IN THE AREA OF THE GUARDRAIL ANCHOR ASSEMBLY TO CLEAR ASSEMBLY BOLTS.

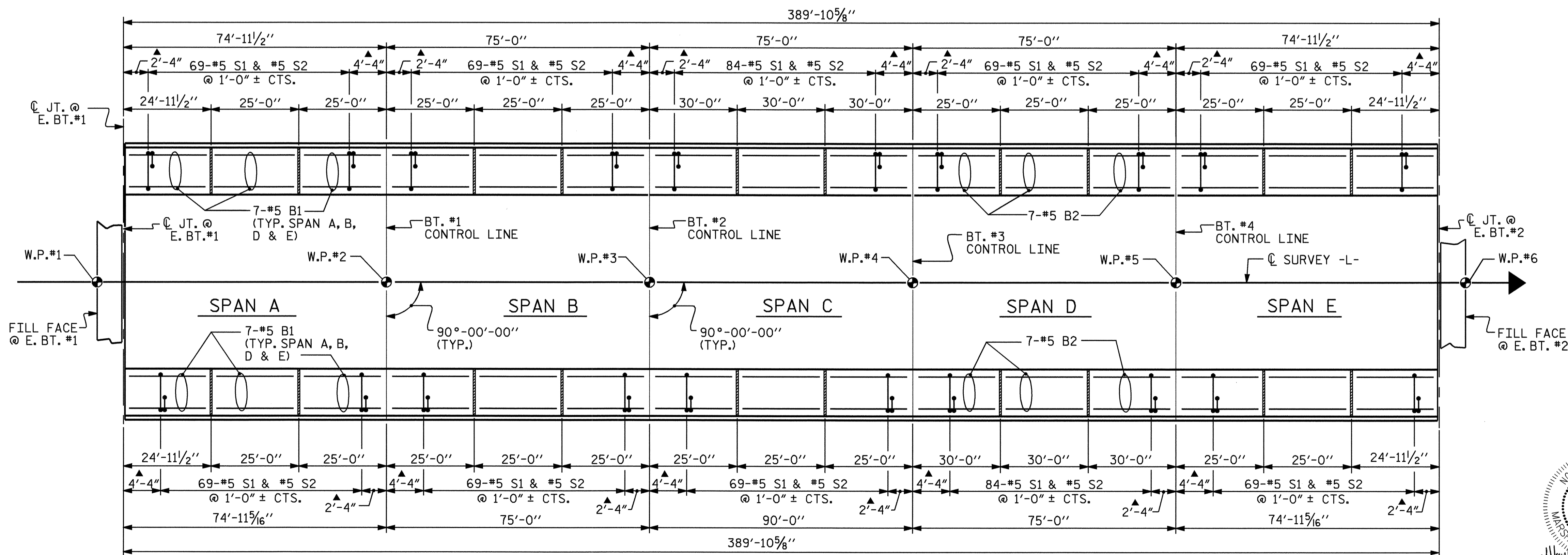


ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL

FOR CONCRETE BARRIER RAIL ONLY					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B1	168	#5	STR	24'-7"	4308
* B2	42	#5	STR	29'-7"	1296
* S1	720	#5	1	4'-7"	3442
* S2	720	#5	2	5'-2"	3880
* S3	52	#5	3	3'-4"	181
* S4	52	#5	STR	3'-2"	172

* EPOXY COATED REINFORCING STEEL 13,279 LBS.
CLASS AA CONCRETE 71.5 CU. YDS.
CONCRETE BARRIER RAIL 779.77 LIN. FT.
* THESE BARS ARE EPOXY COATED.



PLAN

▲ FOR REINFORCING STEEL SPACING, SEE "PLAN VIEW @ END OF RAIL DETAILS"

ASSEMBLED BY : QT NGUYEN DATE : 11-04
CHECKED BY : VX NGUYEN/MGC DATE : 01/05
DRAWN BY : ARB 5/87 RWW/LES
CHECKED BY : SJD 9/87 REV. 10/17/00 RWW/LES
REV. 5/7/03R RWW/JTE

01-FEB-2005 10:57
W:\sdc\quacy\2905\qnguyen\MICROS\ASHE\2905cb1.dgn
clewis



PROJECT NO. B-2905
ASHE COUNTY
STATION: 19+05.00 -L-

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD
CONCRETE
BARRIER RAIL

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-16
1			3			TOTAL SHEETS
2			4			35

STD. NO. CBRI