

PLAN OF BARRIER RAIL

NOTES

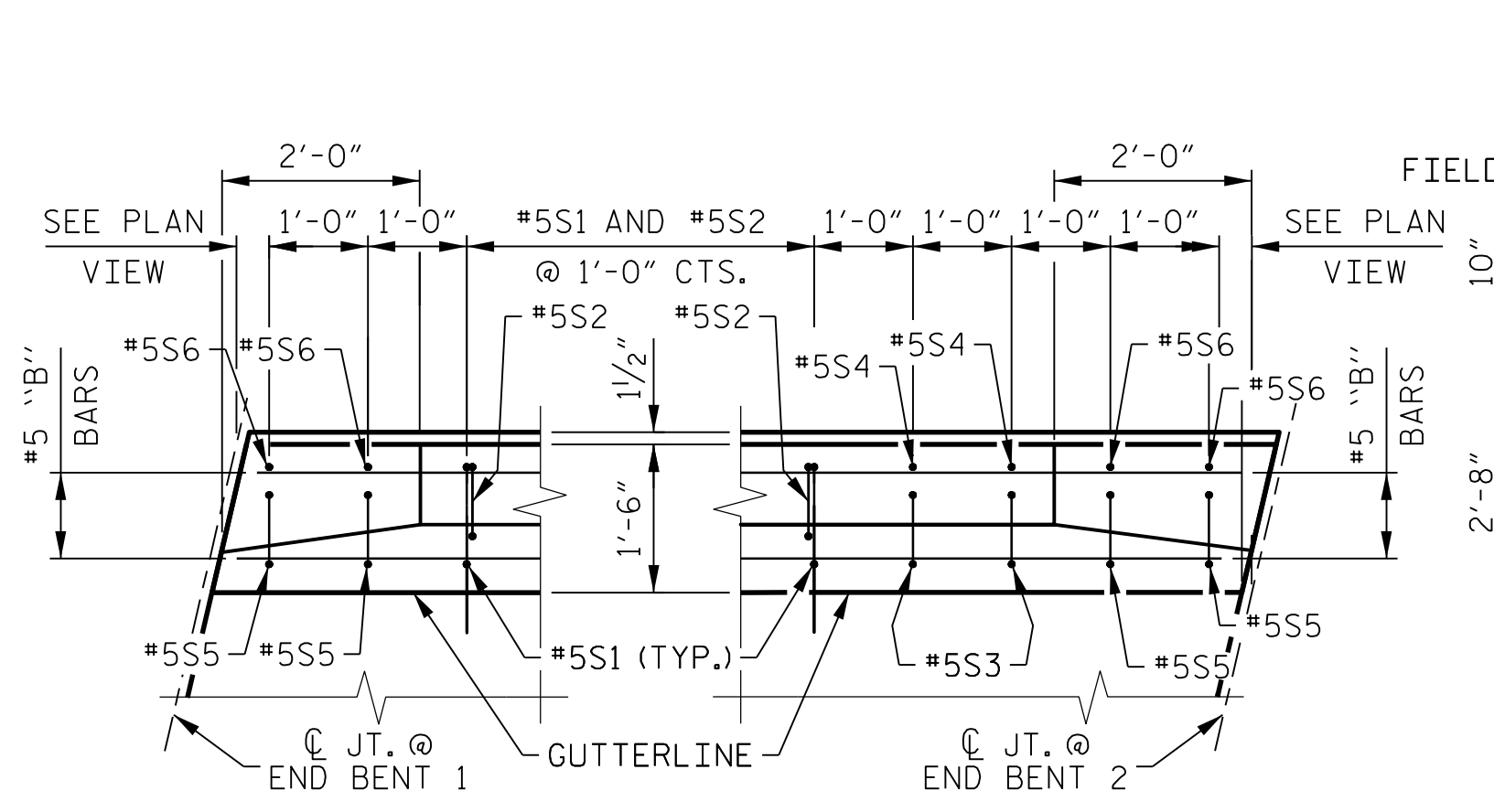
THE BARRIER RAIL IN EACH SPAN SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THAT SPAN HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.

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

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

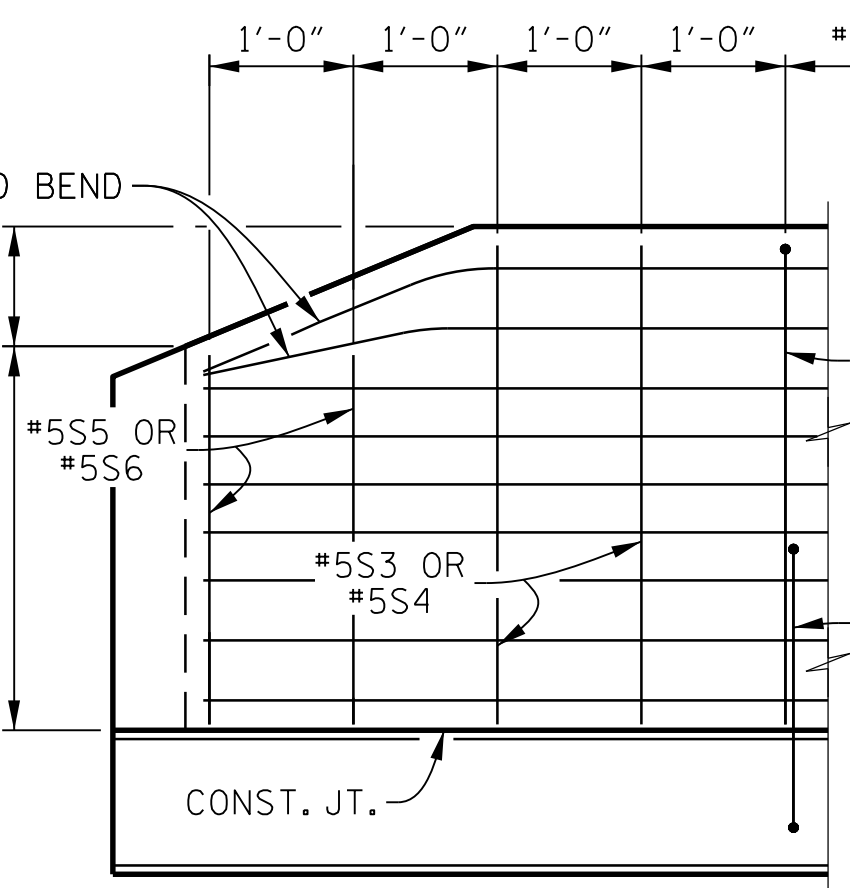
THE #5S3, #5S4, #5S5 AND #5S6 BARS SHALL BE INSTALLED, USING AN ADHESIVE ANCHORING SYSTEM, AFTER SAWING THE JOINT. THE YIELD LOAD FOR THE #5S3, #5S4, #5S5 AND #5S6 BARS IS 18.6 KIPS. FIELD TESTING FOR THE ADHESIVE BONDING SYSTEM IS NOT REQUIRED.

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.

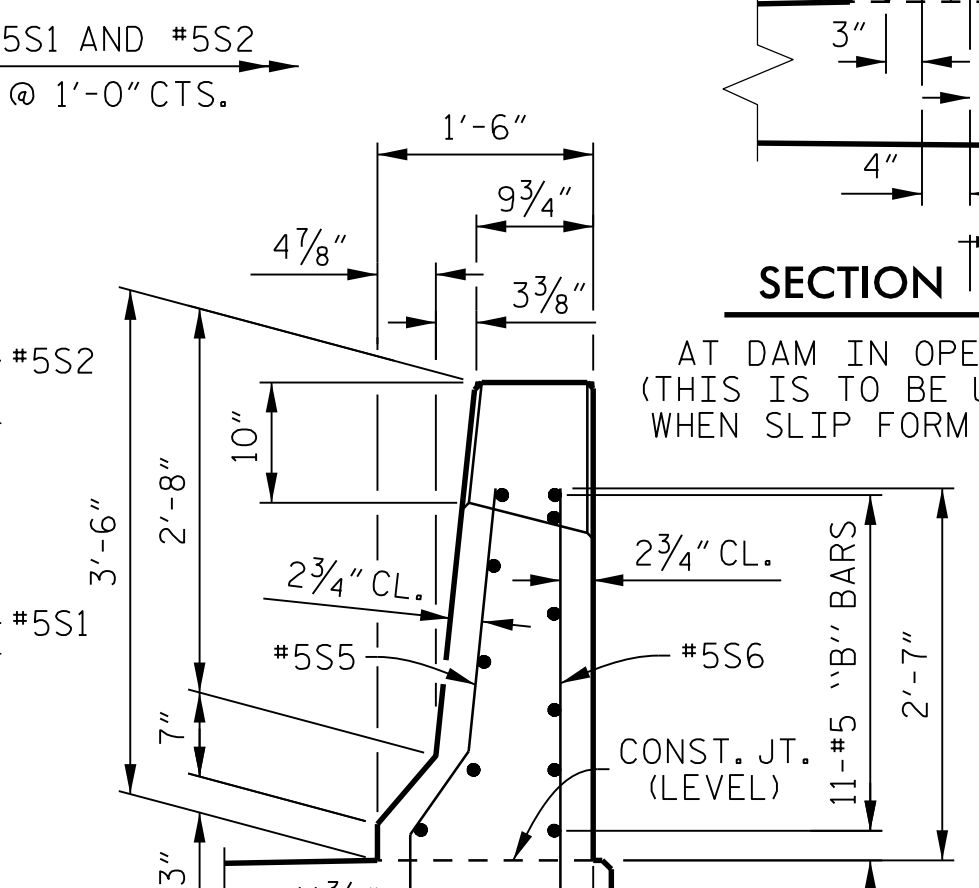


PLAN @ END BENT 1
LEFT SIDE SHOWN, RIGHT SIDE SIMILAR TO END BENT 2

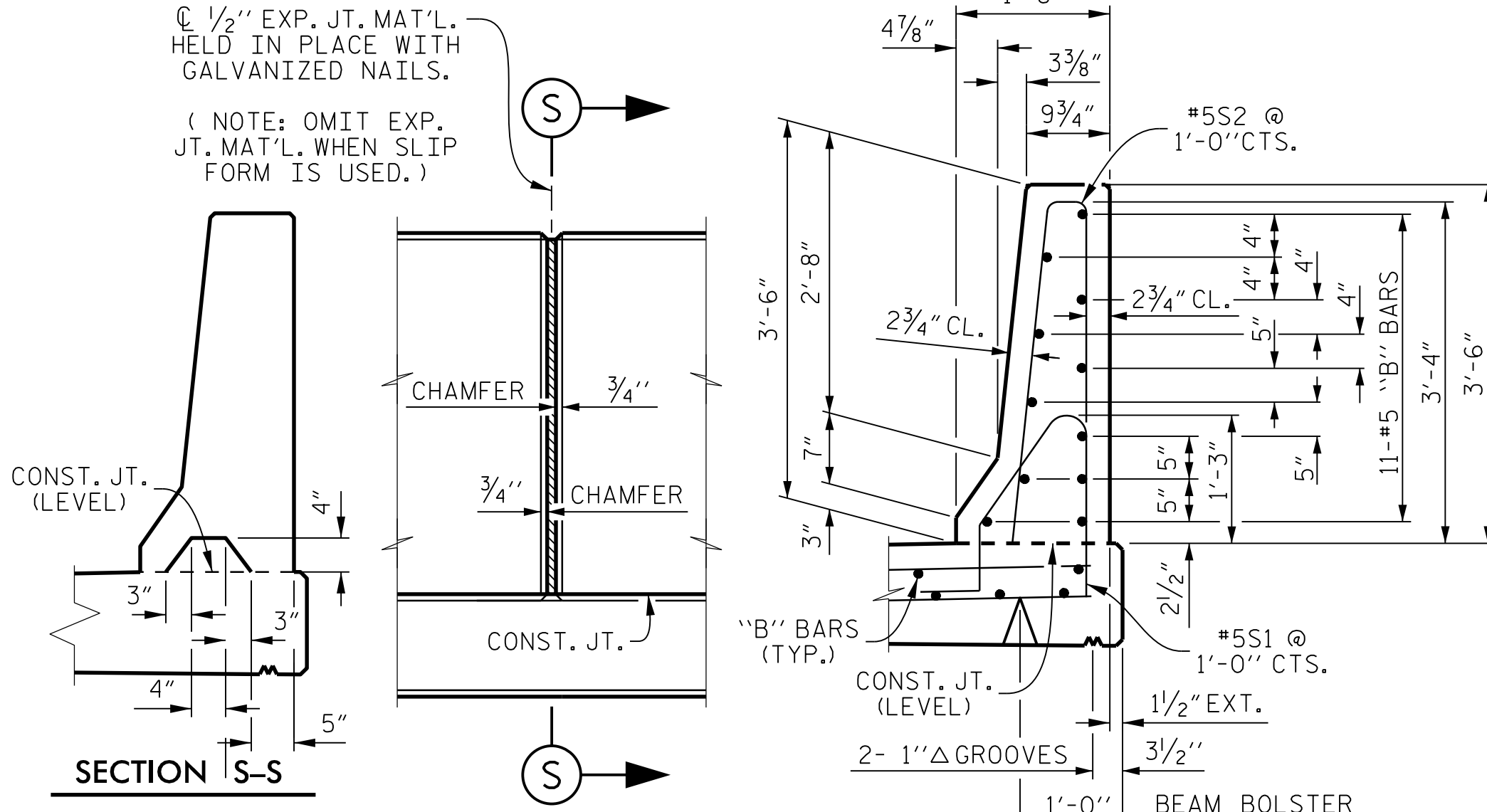
PLAN @ END BENT 2
LEFT SIDE SHOWN, RIGHT SIDE SIMILAR TO END BENT 1



ELEVATION VIEW



END VIEW

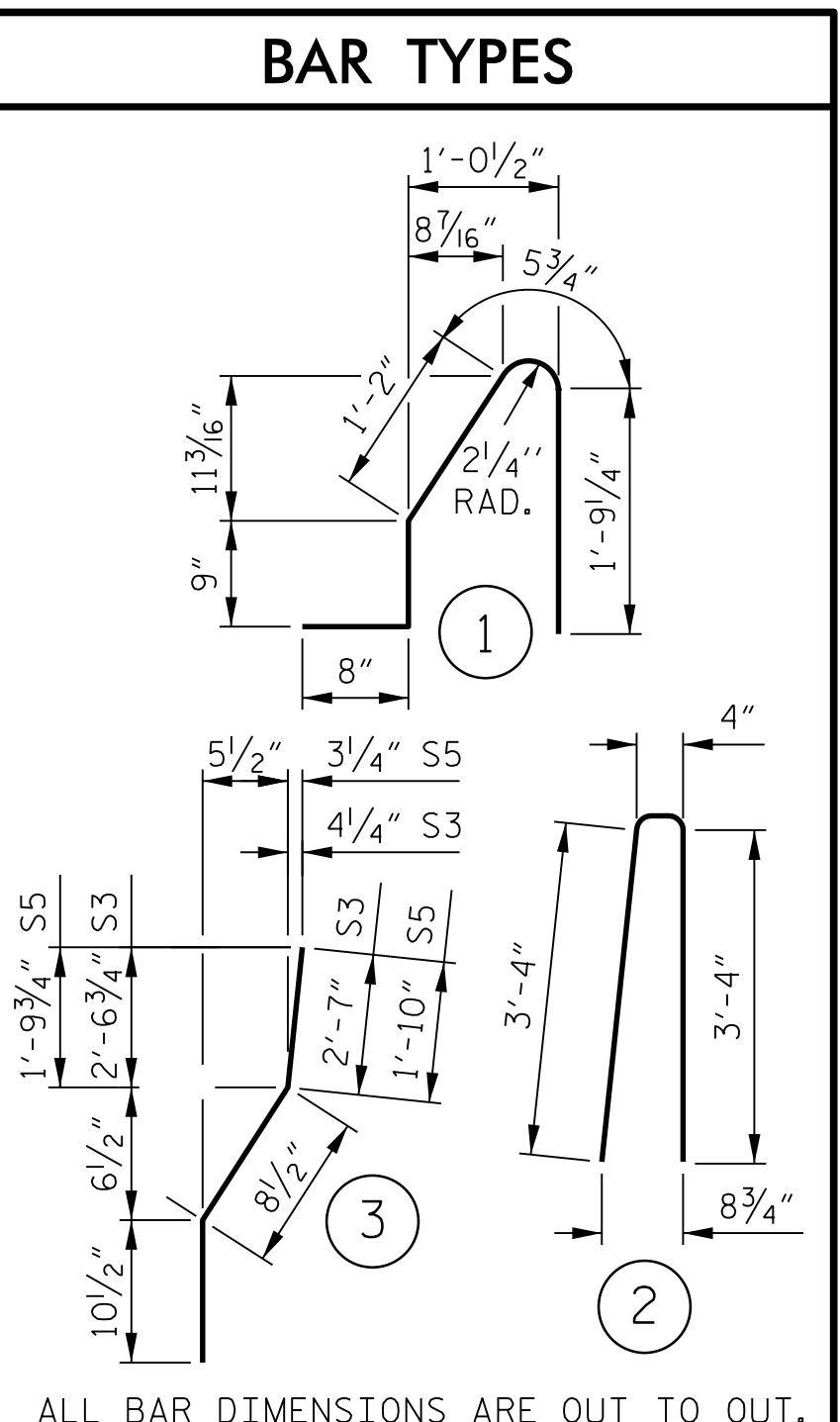


SECTION S-S
CONST. JT. (LEVEL)
1/2" EXP. JT. MAT'L. HELD IN PLACE WITH GALVANIZED NAILS.
(NOTE: OMIT EXP. JT. MAT'L. WHEN SLIP FORM IS USED.)

SECTION THRU RAIL
CONST. JT. (LEVEL)
1/2" EXT.
BEAM BOLSTER IN SLAB OVERHANG

ELEVATION AT EXPANSION JOINTS

BARRIER RAIL DETAILS



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

FOR CONCRETE BARRIER RAIL ONLY

BAR No.	No.	SIZE	TYPE	LENGTH	WEIGHT
*B1	22	#5	STR	14'-1"	323
*B2	11	#5	STR	24'-2"	277
*B3	22	#5	STR	13'-8"	314
*B4	22	#5	STR	13'-10"	317
*B5	11	#5	STR	24'-8"	283
*B6	22	#5	STR	14'-3"	327
*S1	135	#5	1	4'-10"	681
*S2	135	#5	2	7'-0"	986
*S3	4	#5	3	4'-2"	17
*S4	4	#5	STR	4'-0"	17
*S5	8	#5	3	3'-5"	29
*S6	8	#5	STR	3'-3"	27

*EPOXY COATED REINFORCING STEEL 3,598 LBS.

CLASS "AA" CONCRETE 20.2 CU. YDS.

CONCRETE BARRIER RAIL 148.4 LIN. FT.

SPLICE LENGTH

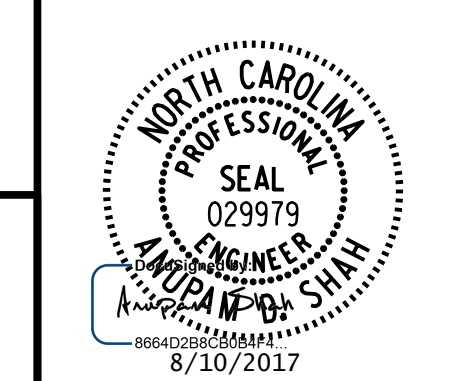
BAR	SIZE	LENGTH
B1, B3, B4, B6	#5	3'-5"

PROJECT NO. **I-4729A**
POLK COUNTY
STATION: **22+87.20 -RP_E-**

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD CONCRETE BARRIER RAIL

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



PLANS PREPARED BY:
PARSONS
5540 CenterView Drive, Suite 217
Raleigh, NC 27606-3386
NC LICENSE No. F-0246

DRAWN BY	DATE
K. E. LOFTON	5-17
A. D. SHAH	7-17
A. D. SHAH	8-17

ASSEMBLED BY	DATE
K. E. LOFTON	5-17
A. D. SHAH	7-17
ARB	5/87
SJD	9/87

REVISIONS						SHEET No.
No.	BY	DATE	No.	BY	DATE	51-12
1			3			TOTAL SHEETS
2			4			24