

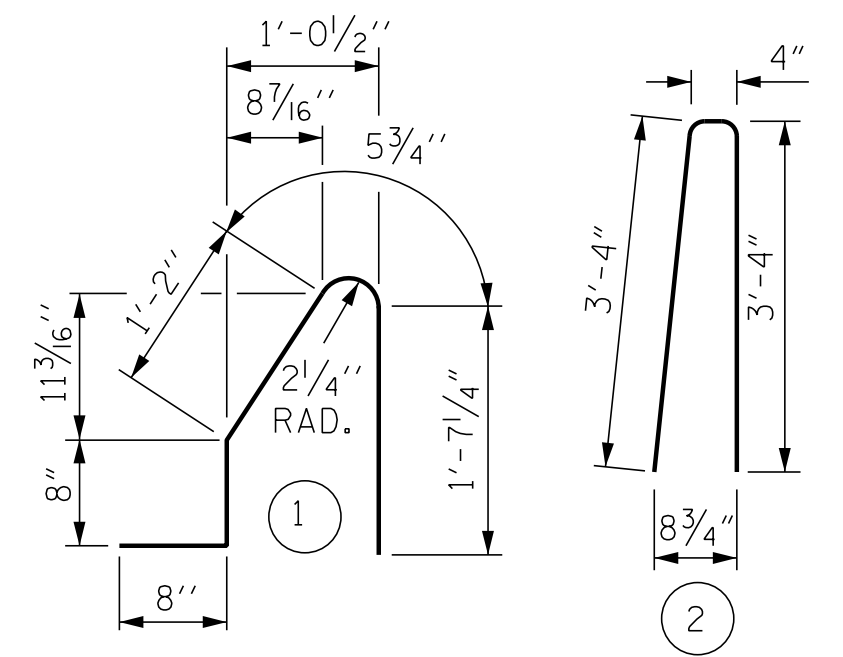
NOTES

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

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

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.

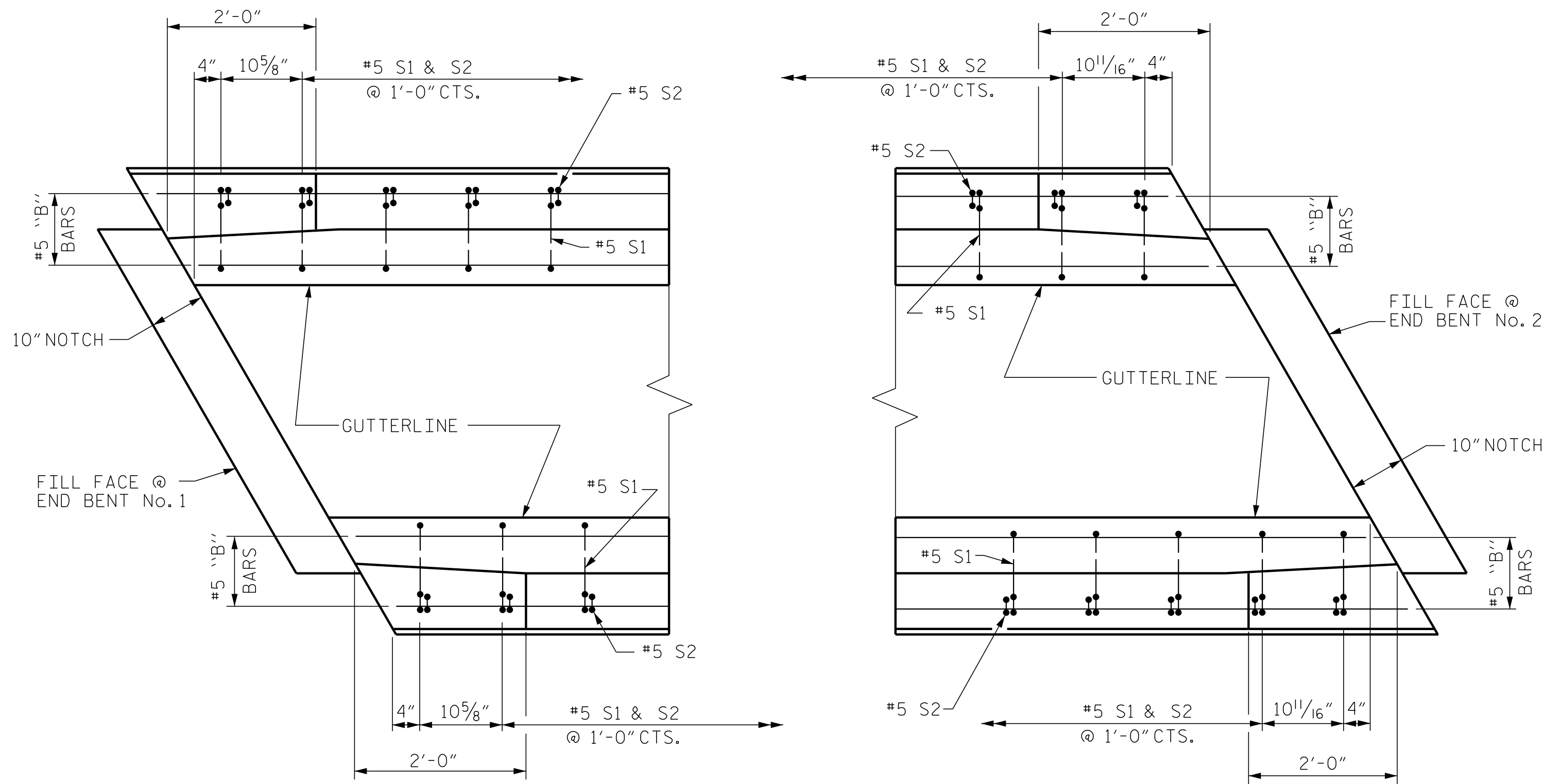
BAR TYPES



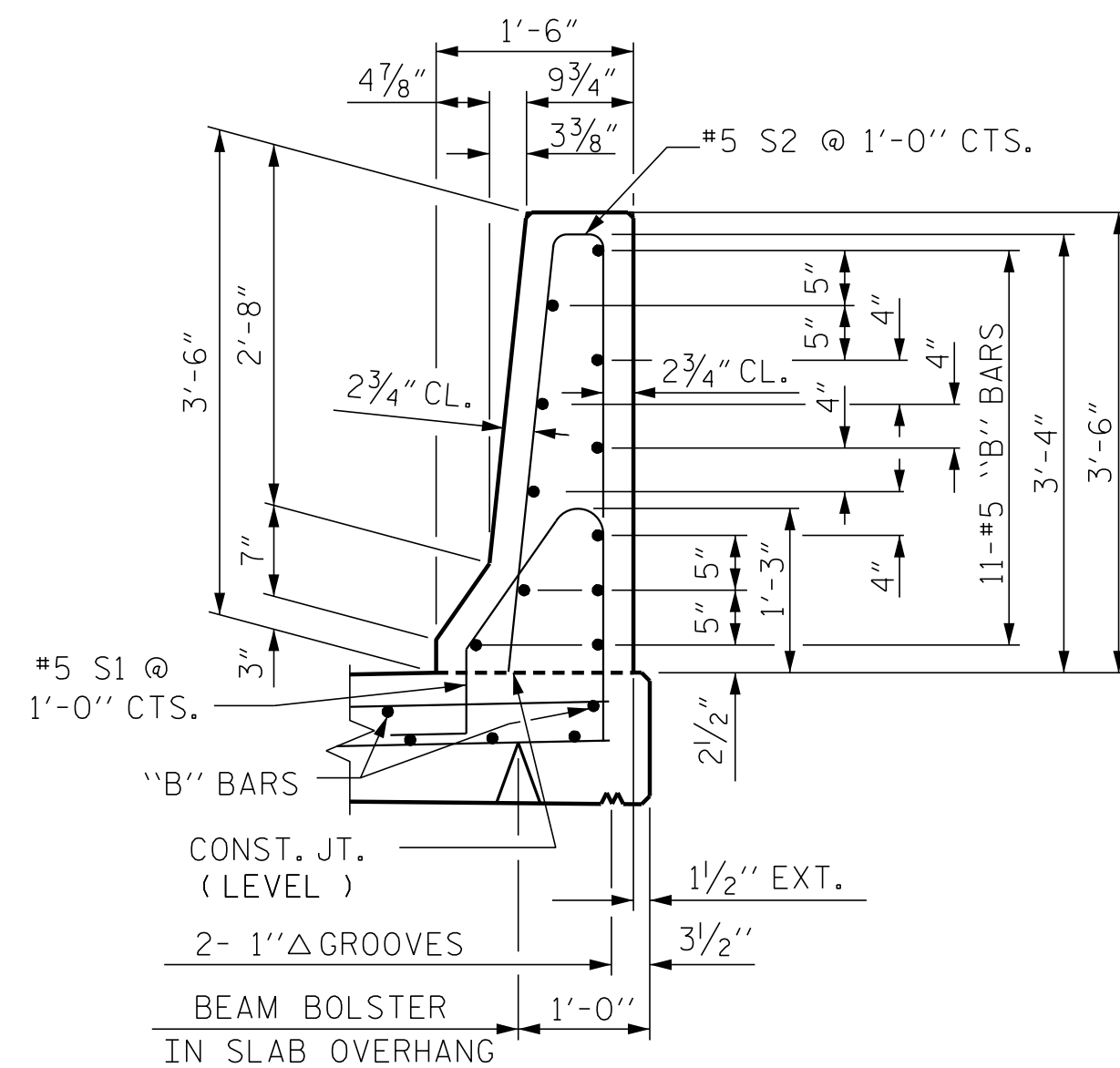
ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL

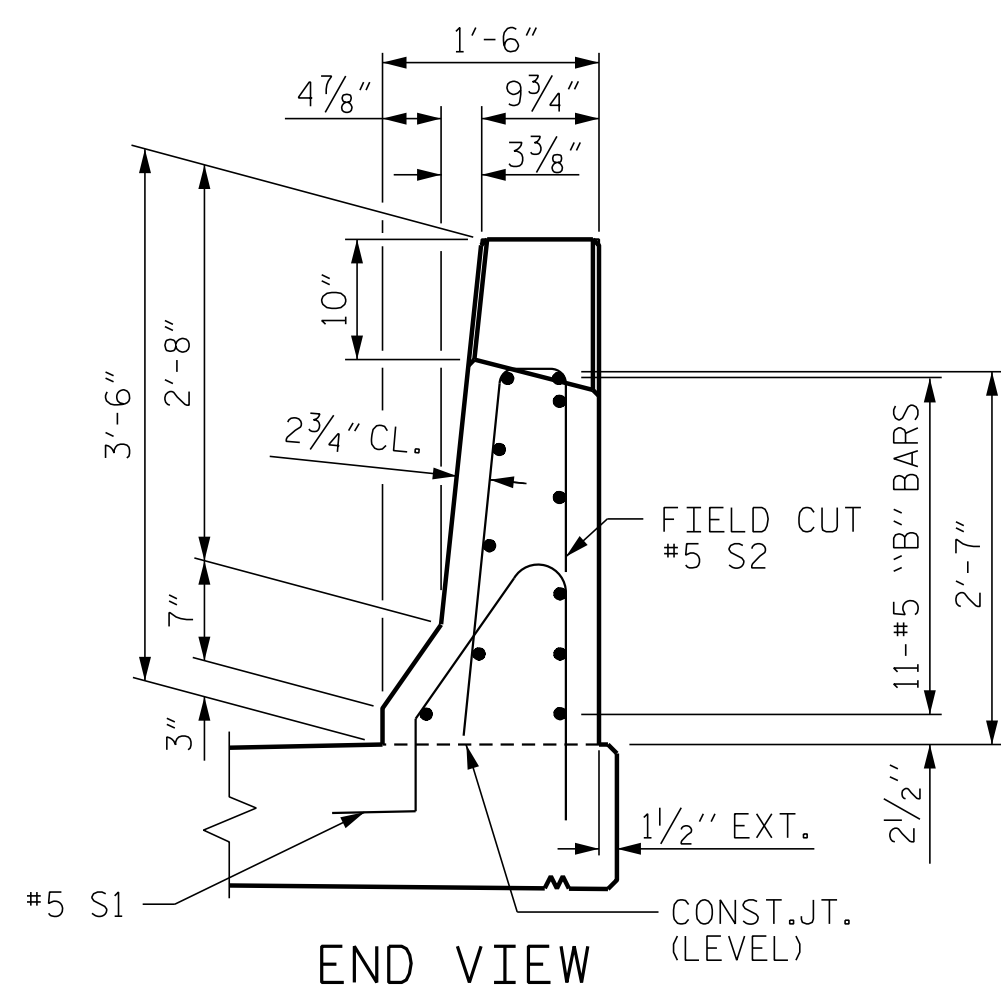
FOR CONCRETE BARRIER RAIL ONLY					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B1	132	#5	STR	23'-7"	3247
* B2	88	#5	STR	14'-0"	1285
* S1	386	#5	1	4'-7"	1845
* S2	386	#5	2	7'-0"	2818
* EPOXY COATED REINFORCING STEEL					9,195 LBS.
CLASS AA CONCRETE					52.5 CU. YDS.
CONCRETE BARRIER RAIL					385.58 LIN. FT.



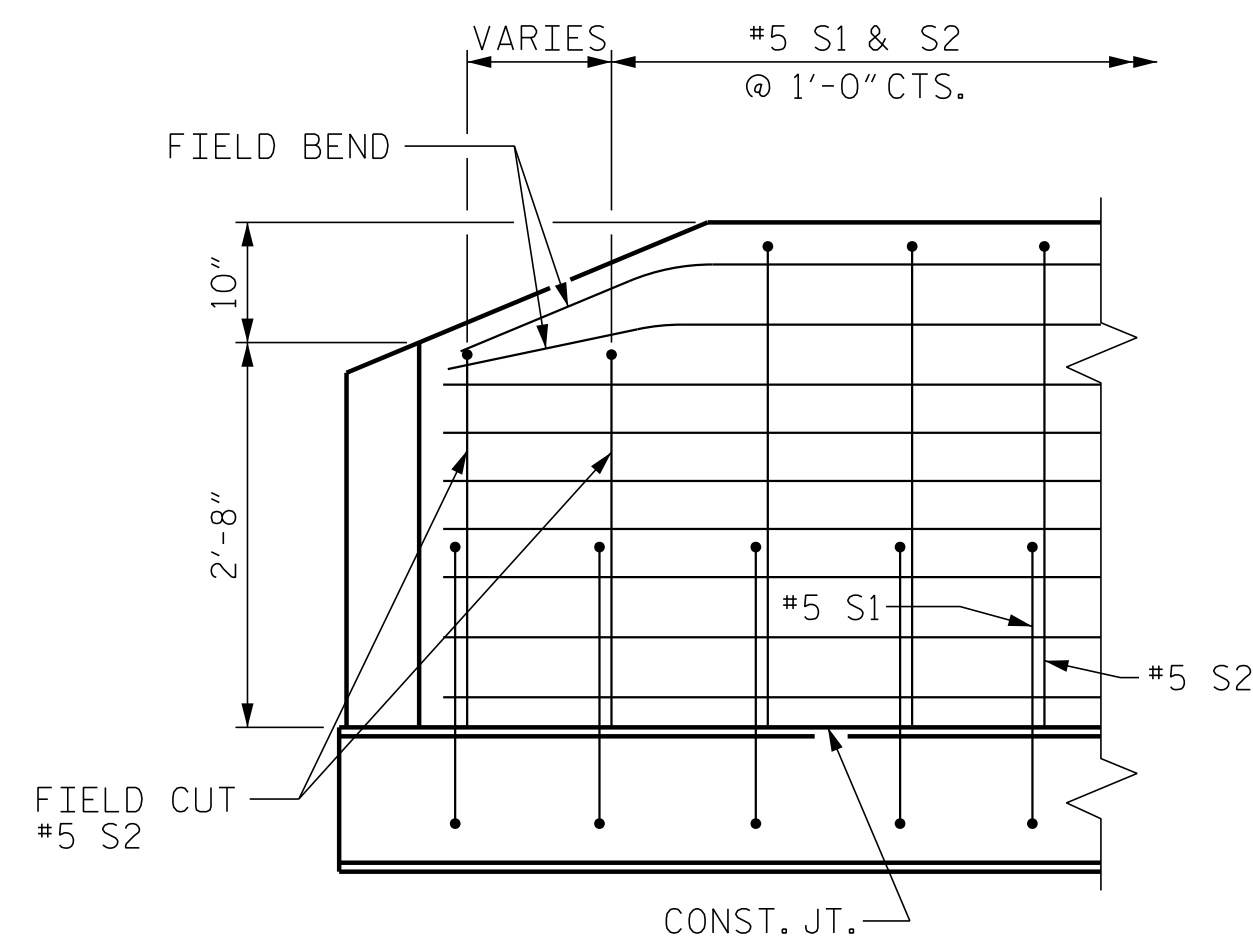
PLAN



SECTION THRU RAIL



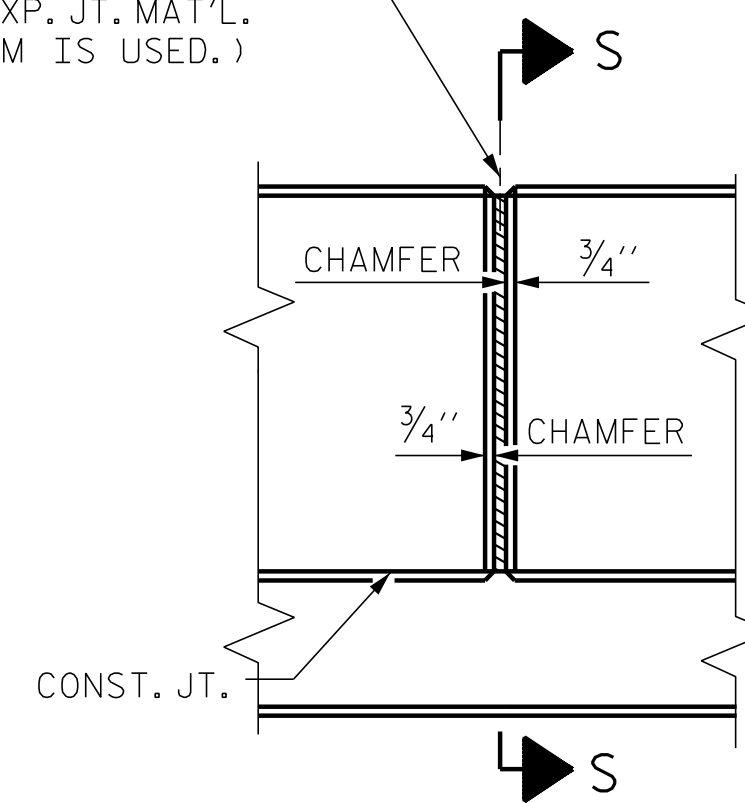
END VIEW



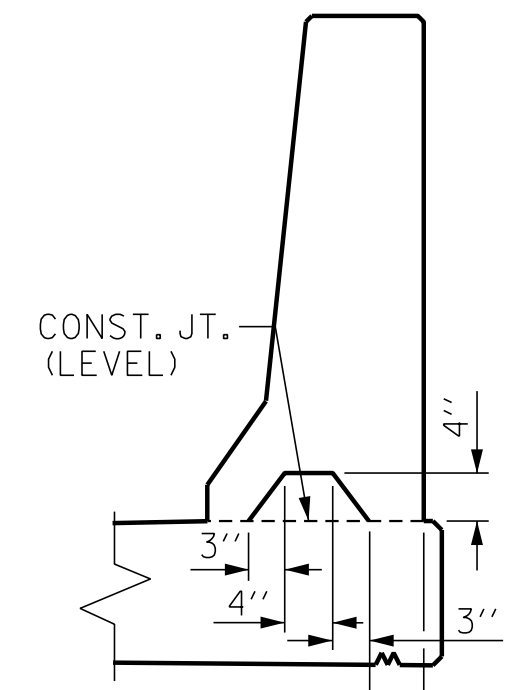
SIDE VIEW

END OF RAIL DETAILS

@ 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



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

PROJECT NO. R-5311A  
HERTFORD COUNTY  
STATION: 50+99.00 -Y2-

SHEET 2 OF 2

ENGINEER OF RECORD  
DocuSigned by:  
Buck Charles Hunt  
2016.12.21  
NORTH CAROLINA  
PROFESSIONAL  
SEAL  
14091  
ENGINEER  
BUCK CHARLES HUNT  
12/21/2016  
ETHERILL  
ENGINEERING

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

CONCRETE BARRIER RAIL

REVISIONS

NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO.  
S02-17  
TOTAL SHEETS  
61

DRAWN BY : J. PENDERGRAFT/DAH DATE : 3-16  
CHECKED BY : B.C. HUNT DATE : 4-16

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED