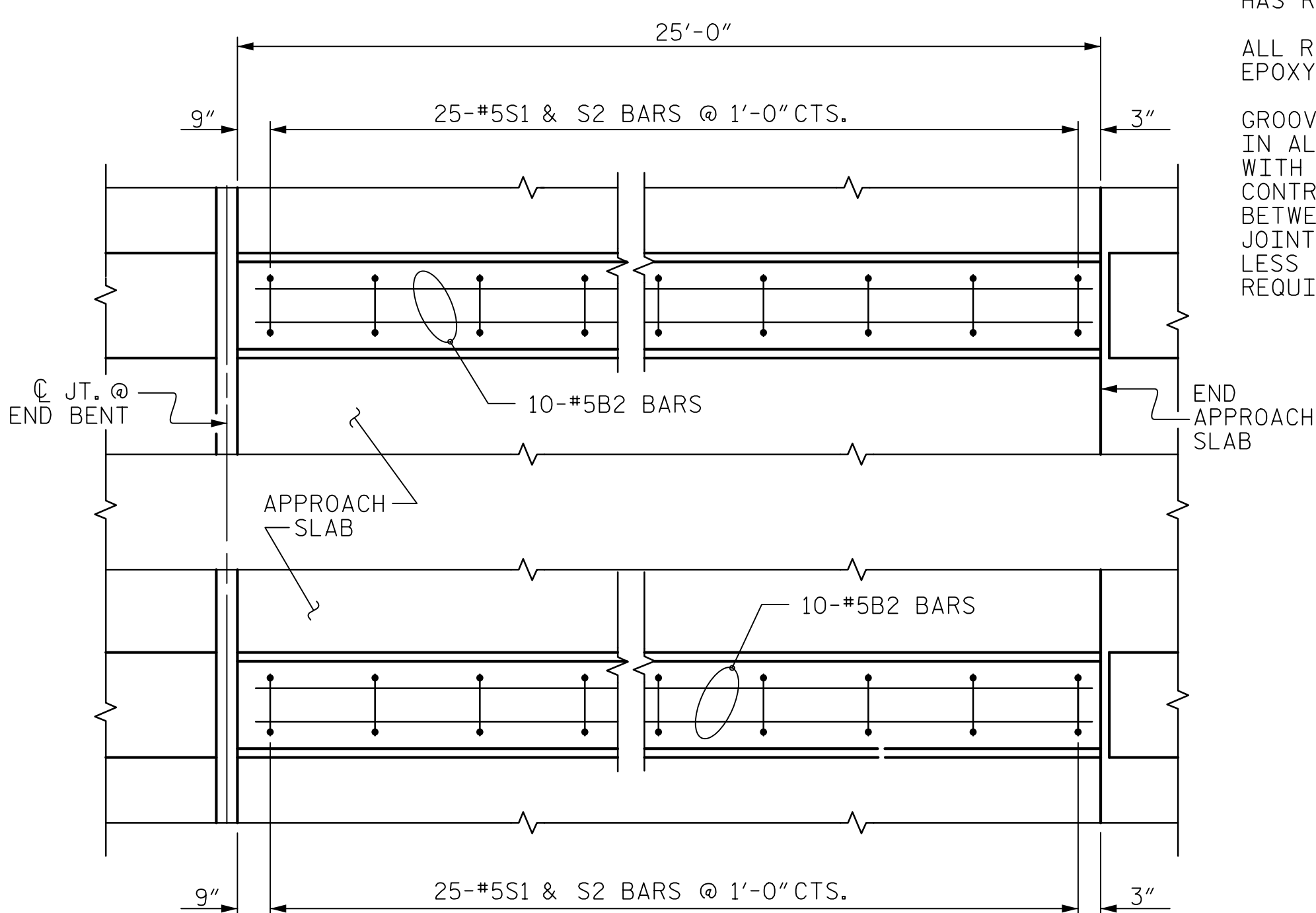
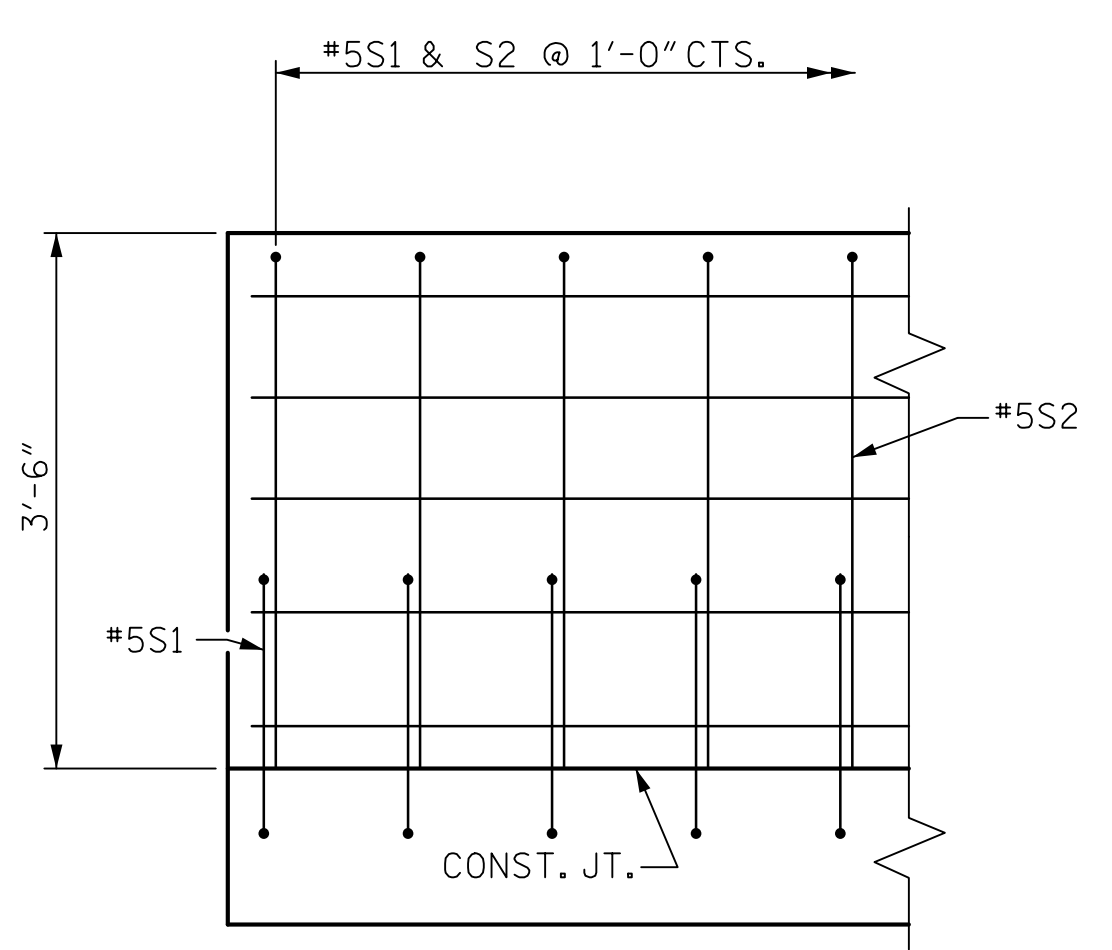


END BENT 1

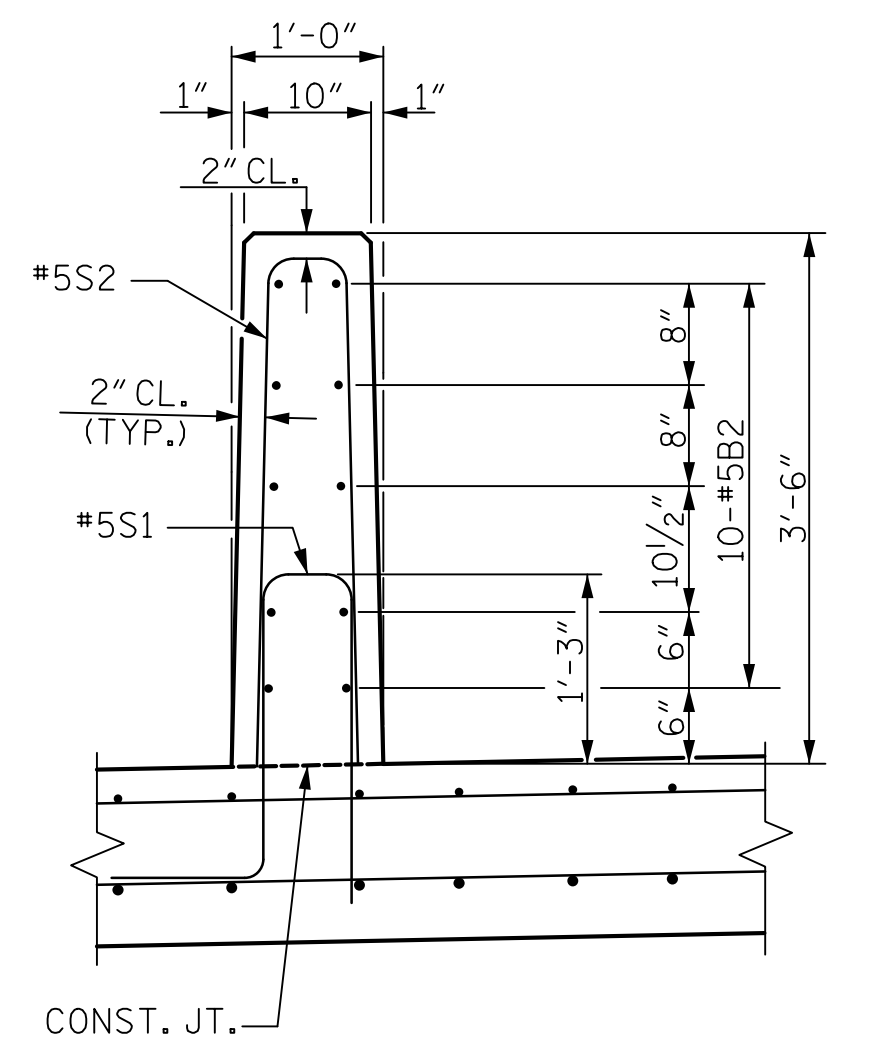


END BENT 2

PLAN OF VERTICAL BARRIER RAIL



SIDE VIEW



SECTION THRU RAIL

NOTES

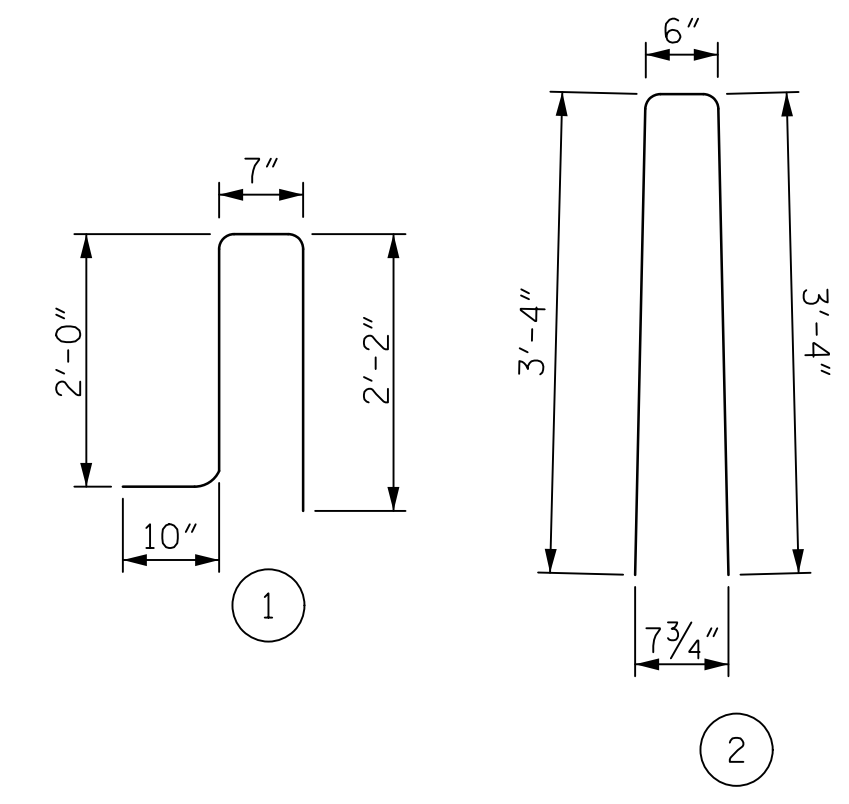
THE COST OF THE VERTICAL BARRIER RAIL ON THE APPROACH SLAB SHALL BE INCLUDED IN THE LINEAR FOOT CONTRACT PRICE BID FOR "CONCRETE BARRIER RAIL".

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

ALL REINFORCING STEEL IN VERTICAL 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 VERTICAL CONCRETE BARRIER RAIL ONLY

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B2	40	#5	STR	24'-8"	1029
* S1	100	#5	1	5'-7"	582
* S2	100	#5	2	7'-2"	747
* EPOXY COATED REINFORCING STEEL					LBS. 2358
CLASS AA CONCRETE					CU. YDS. 11.9
VERTICAL CONCRETE BARRIER RAIL					100.0 LIN. FT.

DRAWN BY : J.A. LEE DATE : 10/25/18
 CHECKED BY : A.J. FORFA DATE : 2/26/19
 DESIGN ENGINEER OF RECORD : J.S. HOBSON DATE : 02/07/20

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PROJECT NO. R-4707
 GUILFORD COUNTY
 STATION: 41+39.51 -Y-
 SHEET 5 OF 5

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

BRIDGE
 APPROACH SLABS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-39
1			3			TOTAL SHEETS
2			4			39