

PLAN

Δ RADIAL DIMENSIONS

**NOTES**

FOR VERTICAL CONCRETE BARRIER RAIL WITH MOMENT SLAB, SEE VERTICAL CONCRETE BARRIER RAIL WITH MOMENT SLAB SPECIAL PROVISION.

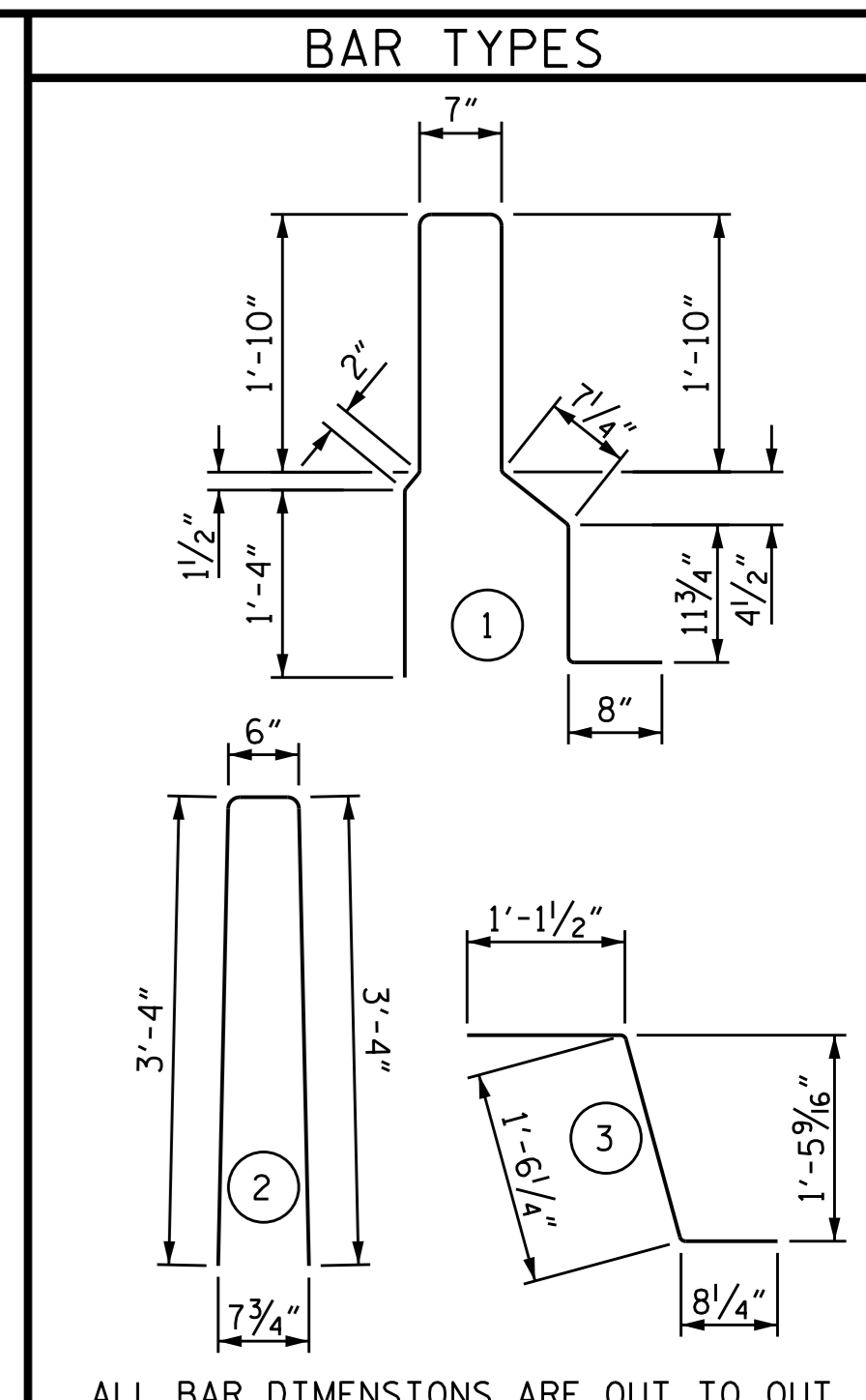
GROOVED CONTRACTION JOINTS, 1/2" IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED SURFACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. A CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS REQUIRED AT MID-POINT OF BARRIER RAIL SEGMENTS LESS THAN 20' IN LENGTH.

THE VERTICAL CONCRETE BARRIER RAIL SHALL NOT BE CAST UNTIL THE MOMENT SLAB HAS ATTAINED AN AGE OF THREE CURING DAYS OR A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI. IN ADDITION, NO FILL MATERIAL, ASPHALT, OR CONSTRUCTION EQUIPMENT IS ALLOWED ON THE MOMENT SLAB PRIOR TO SATISFYING THE MINIMUM CONCRETE CURING AND STRENGTH REQUIREMENTS.

ALL REINFORCING STEEL IN THE BARRIER RAIL SHALL BE EPOXY COATED.

**VERTICAL CONCRETE BARRIER RAIL WITH MOMENT SLAB**

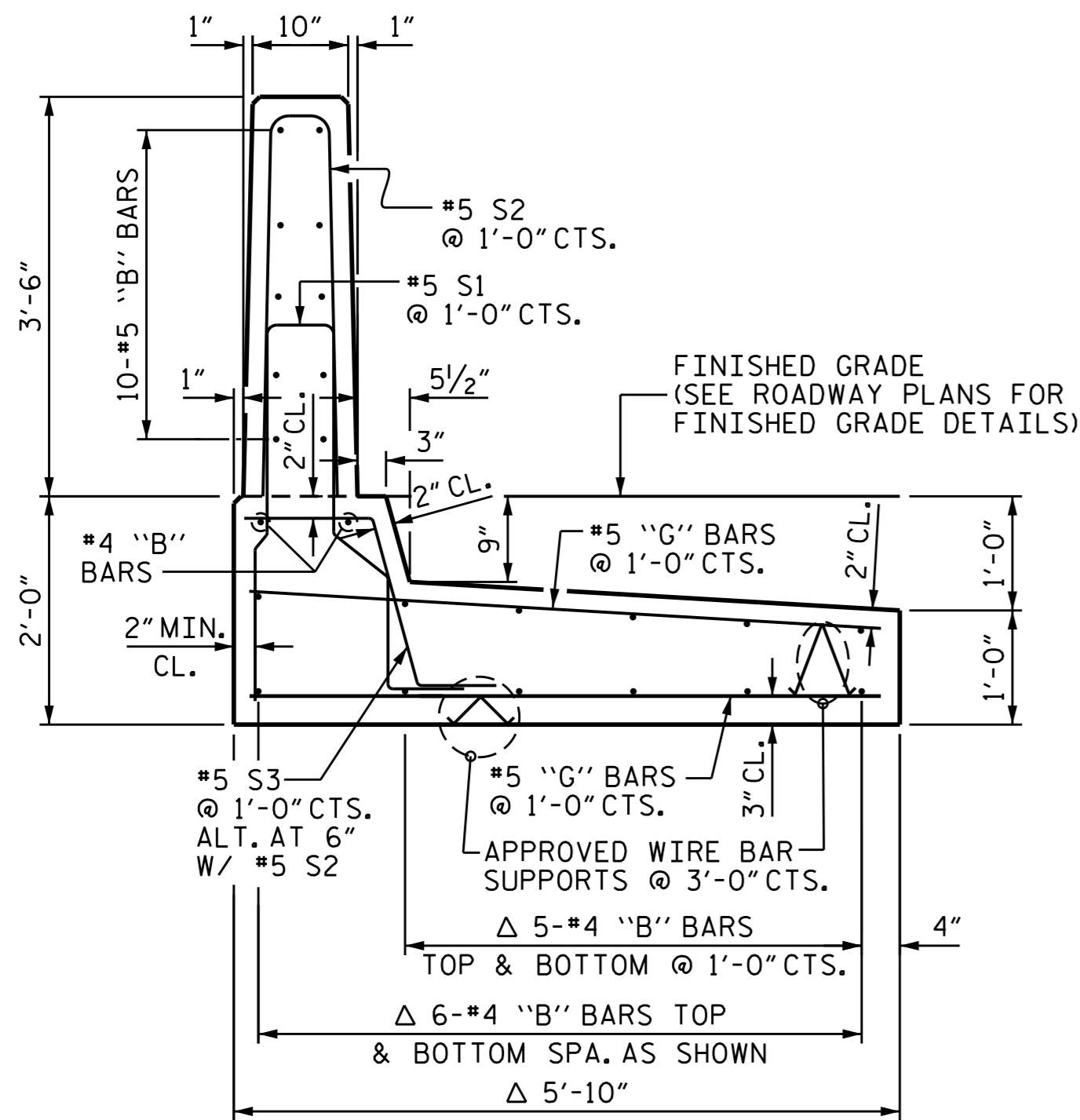
PAY LENGTH = 12.2 LIN FT



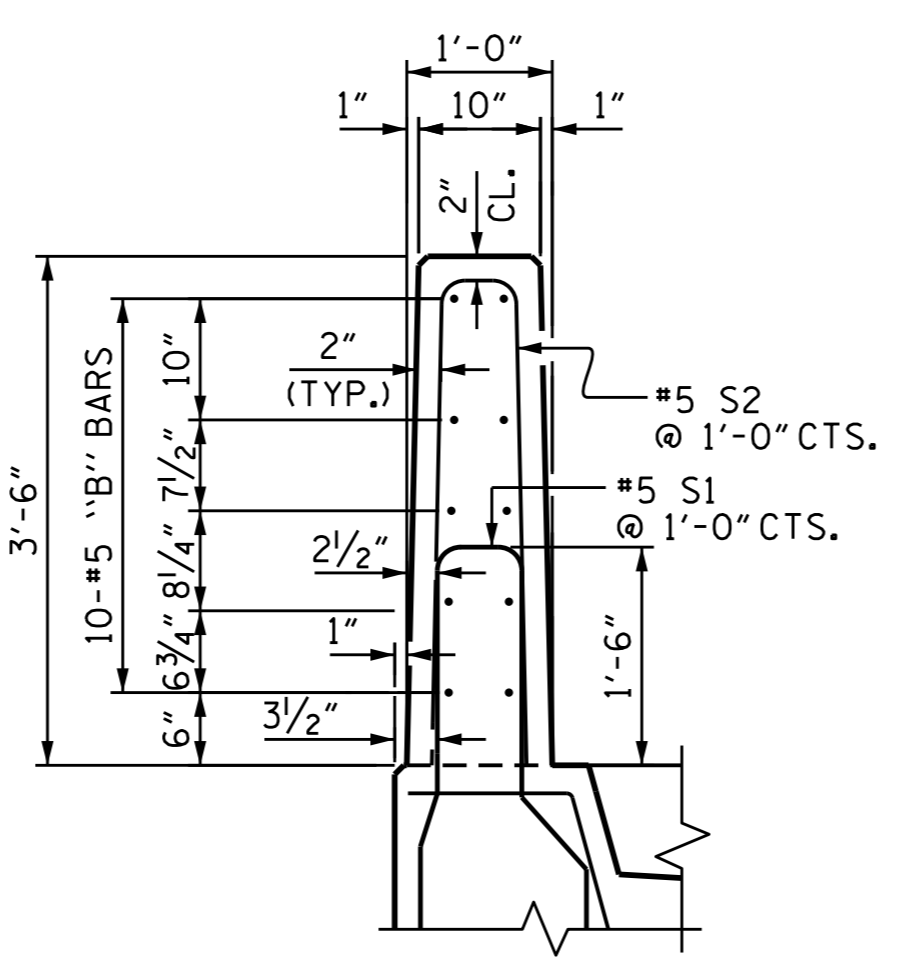
**BILL OF MATERIAL**

FOR ONE SECTION OF VERTICAL CONCRETE BARRIER RAIL WITH MOMENT SLAB

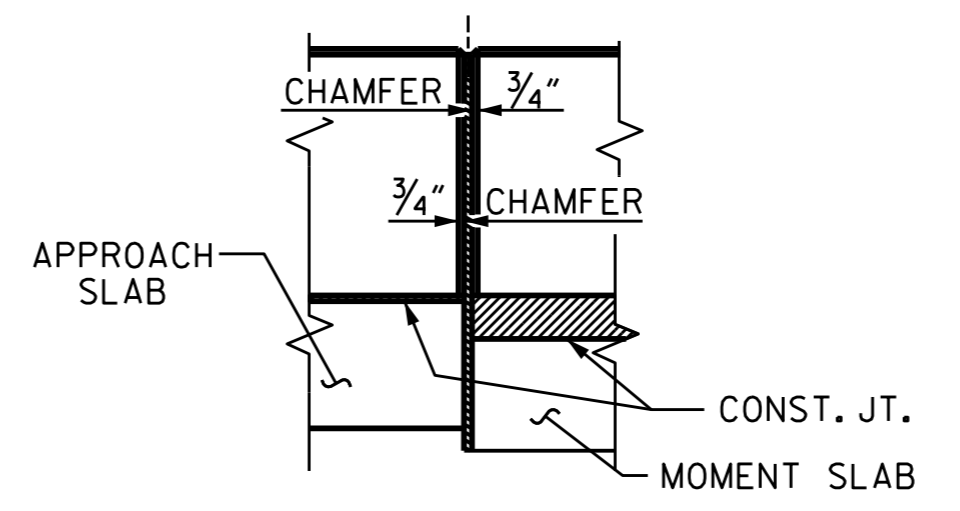
BAR NO.	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B1	20	#5	STR	7'-5"	155
B2	16	#4	STR	7'-0"	75
B3	12	#4	STR	5'-10"	47
G1	20	#5	STR	5'-6"	115
G2	2	#5	STR	4'-4"	9
G3	2	#5	STR	2'-3"	5
G4	2	#5	STR	6'-0"	13
* S1	12	#5	1	8'-0"	100
* S2	12	#5	2	7'-2"	90
S3	11	#5	3	3'-4"	38
REINFORCING STEEL					302 LB
* EPOXY COATED REINFORCING STEEL					345 LB
CLASS AA CONCRETE VERTICAL CONCRETE BARRIER RAIL					1.4 CY
CLASS A CONCRETE MOMENT SLAB					3.1 CY
VERTICAL CONCRETE BARRIER RAIL WITH MOMENT SLAB					12.2 LIN FT



VERTICAL CONCRETE BARRIER RAIL WITH MOMENT SLAB



VERTICAL CONCRETE BARRIER RAIL SECTION

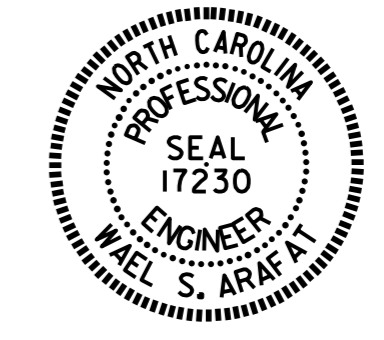


ELEVATION AT EXPANSION JOINTS

PROJECT NO. B-5380

AVERY COUNTY

STATION: 12+31.30 -L-



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

**VERTICAL CONCRETE BARRIER RAIL WITH MOMENT SLAB**

DRAWN BY: H. T. BARBOUR DATE: 6-7-16

CHECKED BY: V. X. NGUYEN DATE: 7-16

DESIGN ENGINEER OF RECORD: A. M. LEE DATE: 7-16

REVISIONS

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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SHEET NO. **S-16**  
TOTAL SHEETS **16**