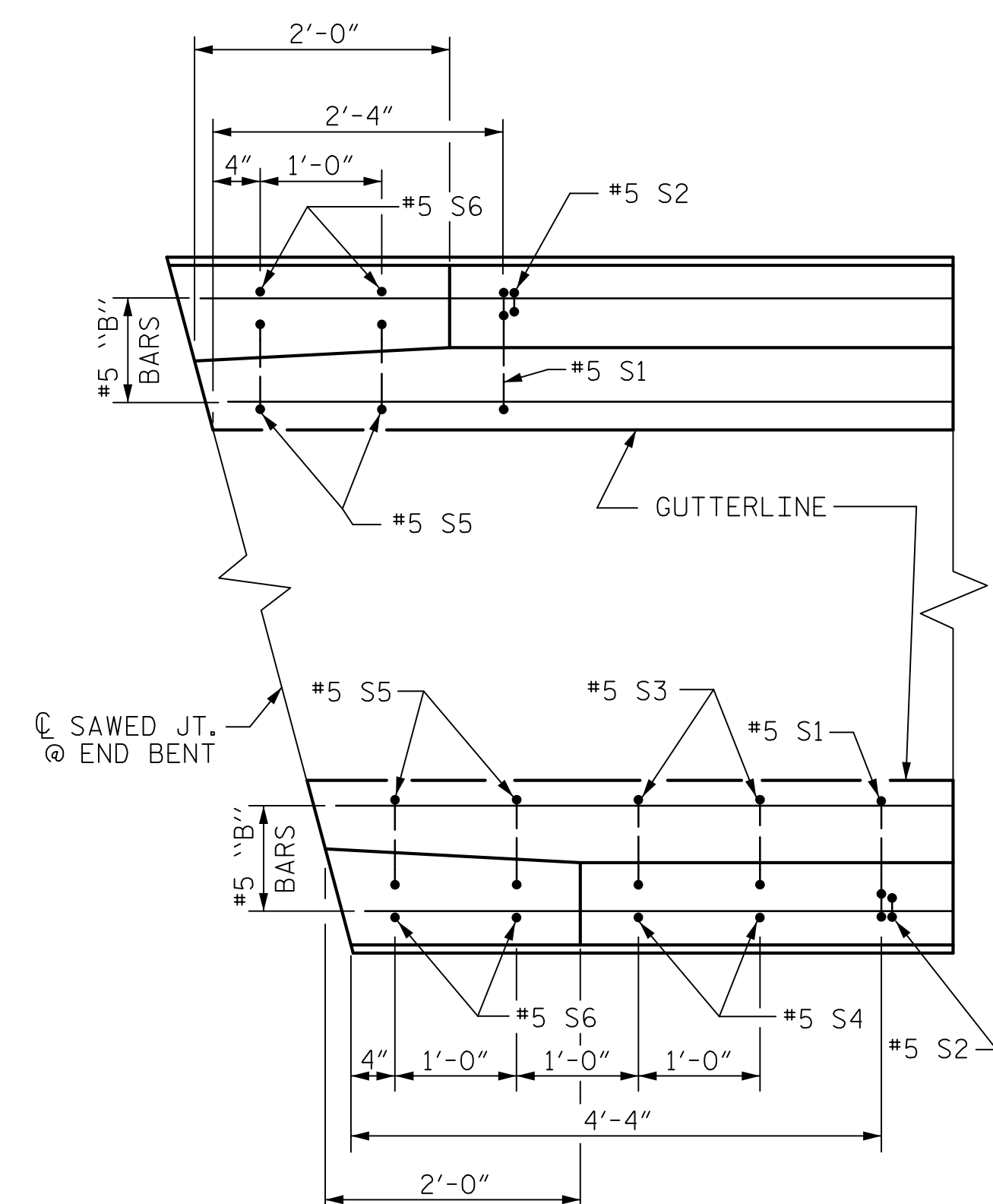
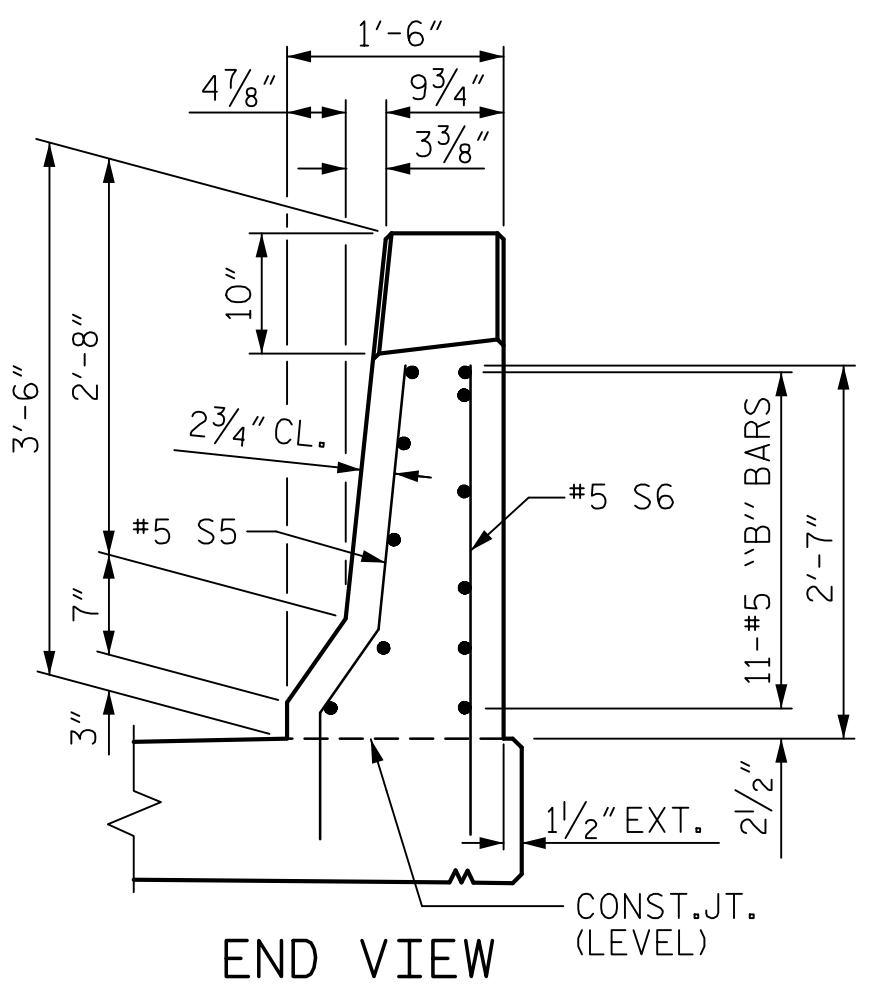


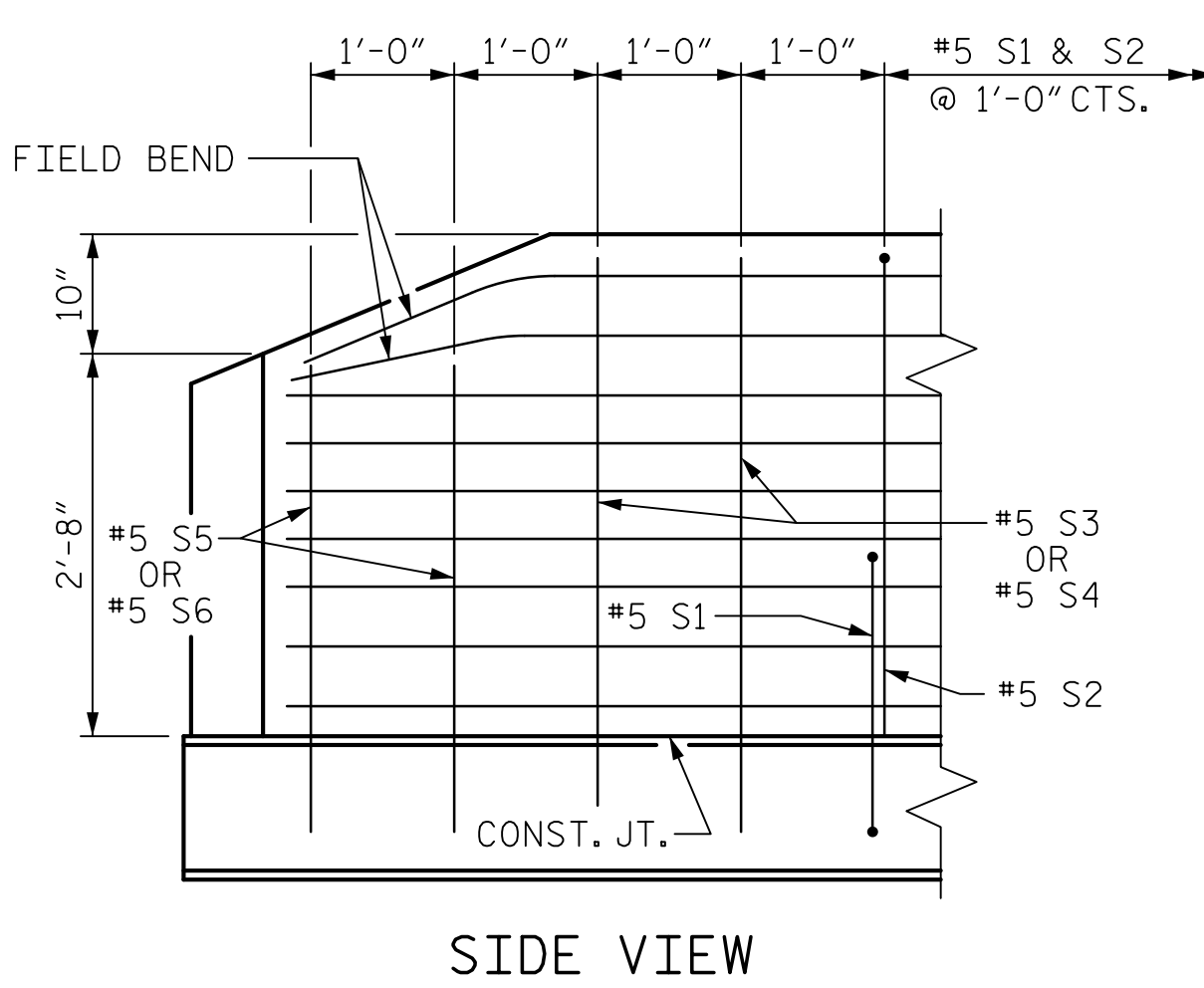
PLAN



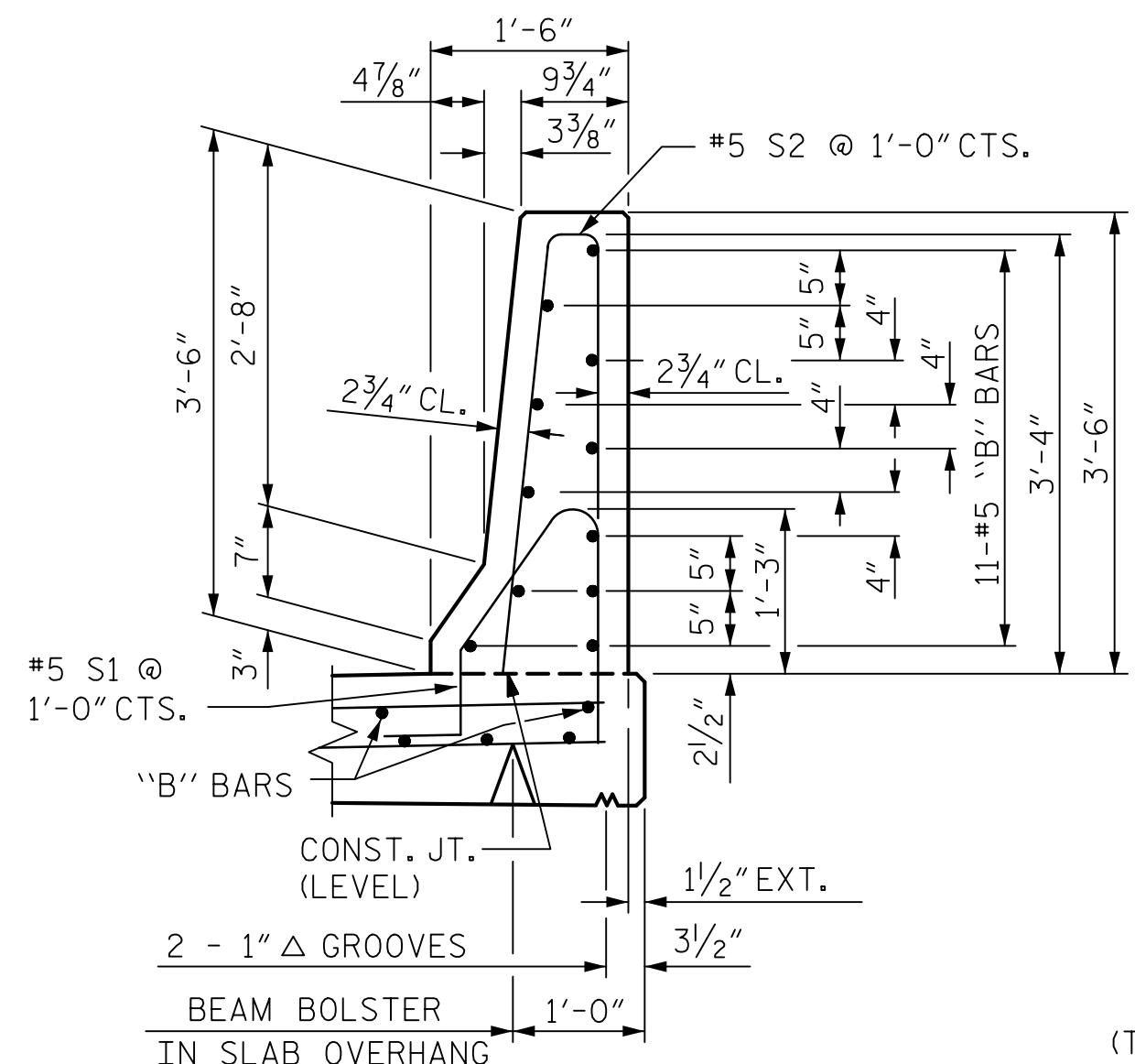
PLAN



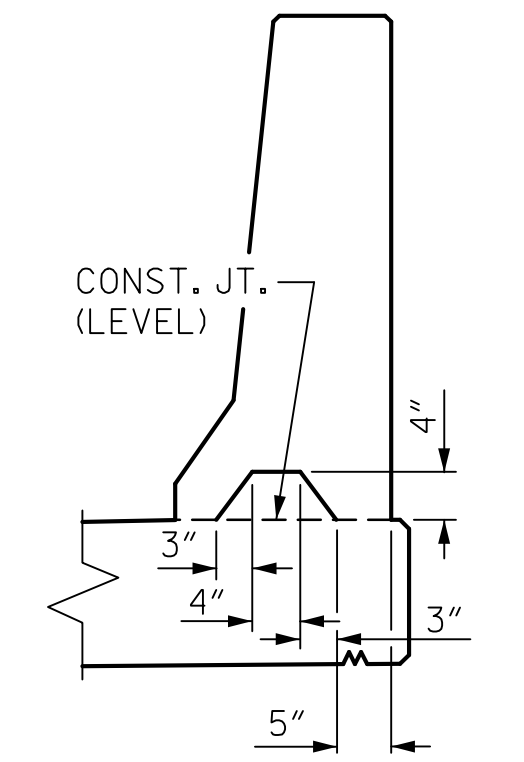
END OF RAIL DETAILS
FOR ADHESIVE ANCHORING AT SAWED JOINTS



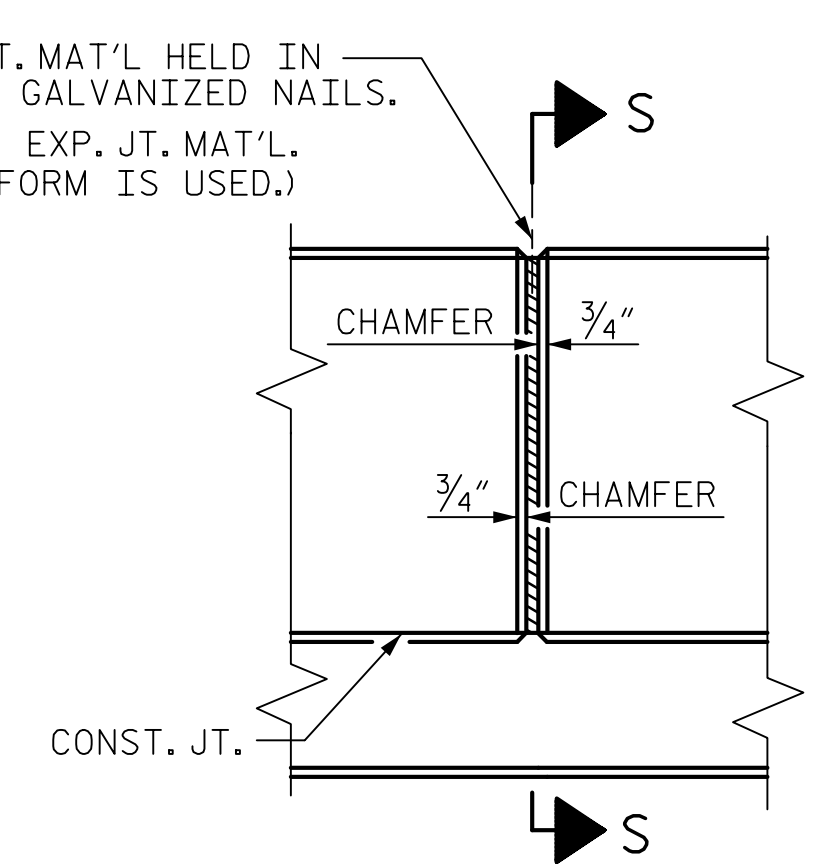
SIDE VIEW



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

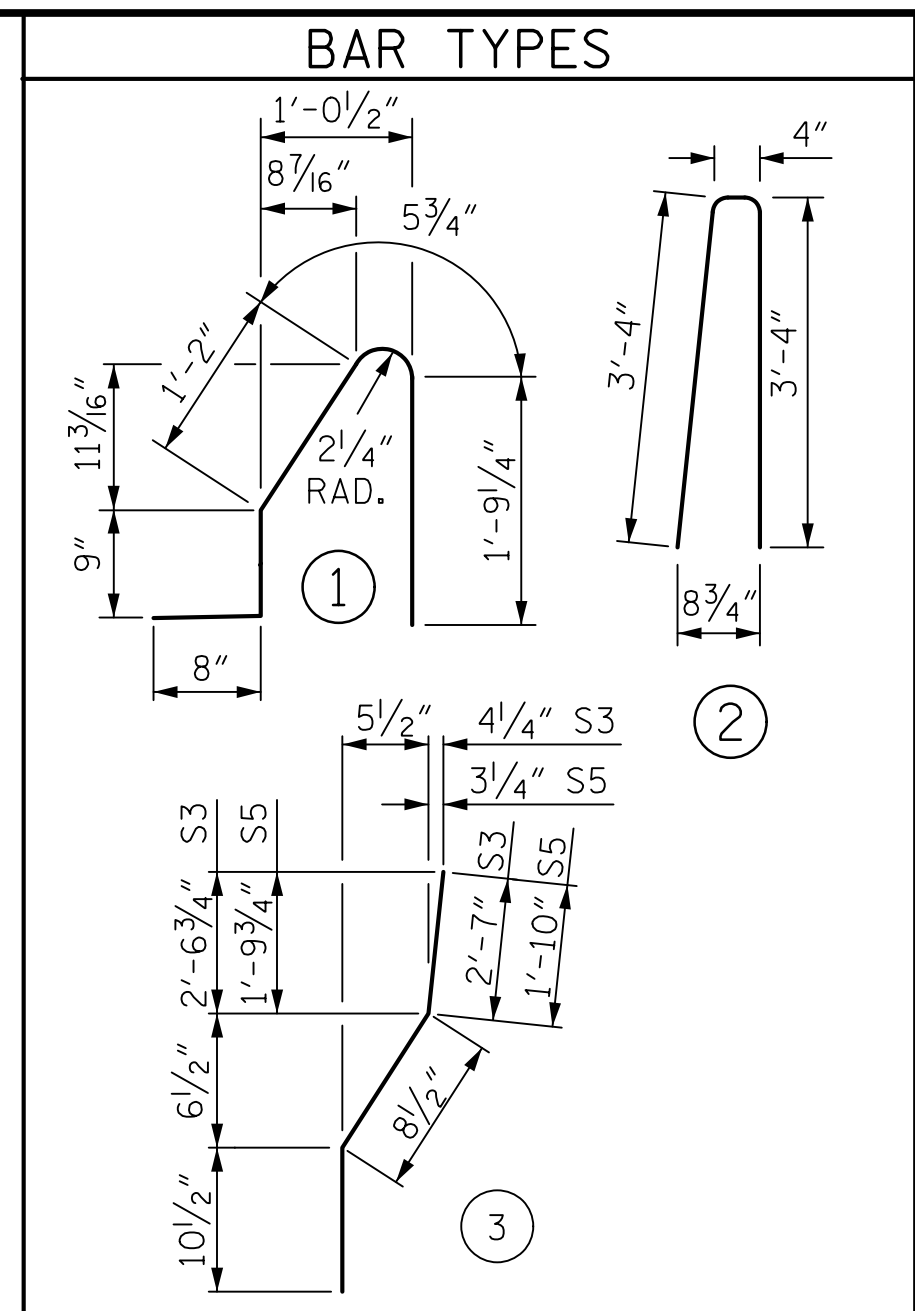
NOTES

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

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

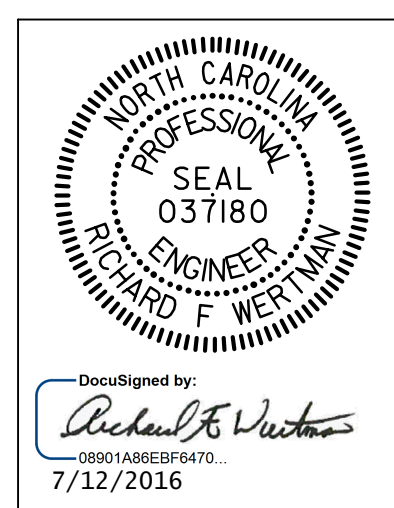
THE #5 S3, S4, S5 AND S6 BARS SHALL BE INSTALLED, USING AN ADHESIVE ANCHORING SYSTEM, AFTER SAWING THE JOINT. THE YIELD LOAD FOR THE #5 S3, S4, S5 AND S6 BARS IS 18.6 KIPS. FIELD TESTING FOR THE ADHESIVE BONDING SYSTEM IS NOT REQUIRED.

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.



ALL BAR DIMENSIONS ARE OUT TO OUT

| BILL OF MATERIAL | | | | | |
|---------------------------------|-----|------|------|----------------|--------|
| FOR CONCRETE BARRIER RAIL ONLY | | | | | |
| BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
| * B1 | 66 | #5 | STR | 22'-7" | 1555 |
| * B2 | 44 | #5 | STR | 22'-8" | 1040 |
| * S1 | 220 | #5 | 1 | 4'-10" | 1109 |
| * S2 | 220 | #5 | 2 | 7'-0" | 1606 |
| * 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 | | | | 5,400 LBS. | |
| CLASS AA CONCRETE | | | | 31.2 CU. YDS. | |
| CONCRETE BARRIER RAIL | | | | 230.6 LIN. FT. | |



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT NO. B-4447
BURKE COUNTY
STATION: 25+85.40 -L-
15+67.23 -Y-

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
STANDARD
CONCRETE BARRIER RAIL
EASTBOUND LANE

| REVISIONS | | | | | |
|-----------|-----|-------|-----|-----|-------|
| NO. | BY: | DATE: | NO. | BY: | DATE: |
| 1 | | | 3 | | |
| 2 | | | 4 | | |

SHEET NO. S02-14
TOTAL SHEETS 28

ASSEMBLED BY : T.J. KIRSCHBAUM DATE : 11/10/15
CHECKED BY : R.F. WERTMAN DATE : 3/25/16
DRAWN BY : ARB 5/87 REV. 10/1/11 MAA/GM
CHECKED BY : SJD 9/87 REV. 7/12 MAA/GM
REV. 6/13 MAA/GM

PLANS PREPARED BY:
Gannett Fleming
Excellence Delivered As Promised
2610 Wycliff Road
Suite 102
Raleigh, NC 27607-3073
(919) 420-7660
NC Lic. No. F-0270

THESE PLANS HAVE BEEN PROPERLY EXAMINED BY THE UNDERSIGNED. I HAVE DETERMINED THAT THEY COMPLY WITH EXISTING NORTH CAROLINA CODES, AND HAVE BEEN PROPERLY ADAPTED FOR USE IN THIS AREA.