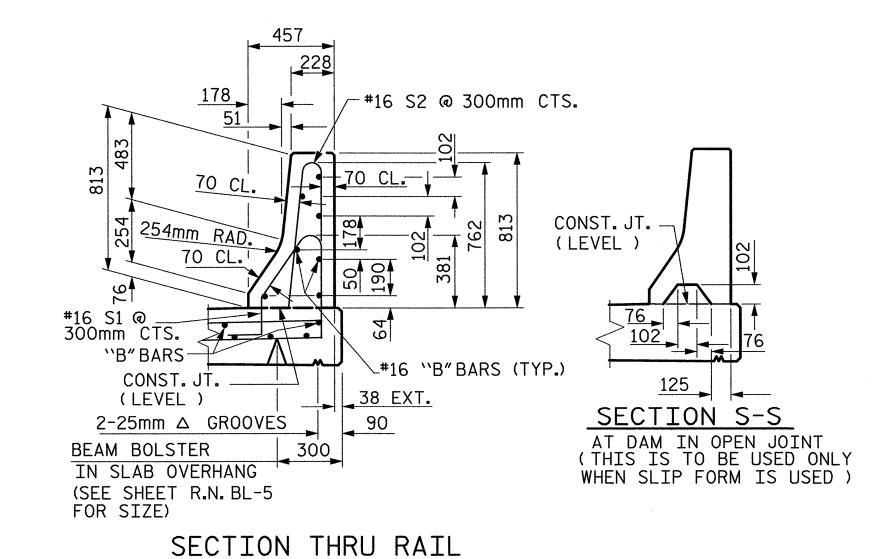


END OF RAIL DETAILS

PLAN



BARRIER RAIL DETAILS

NOTES

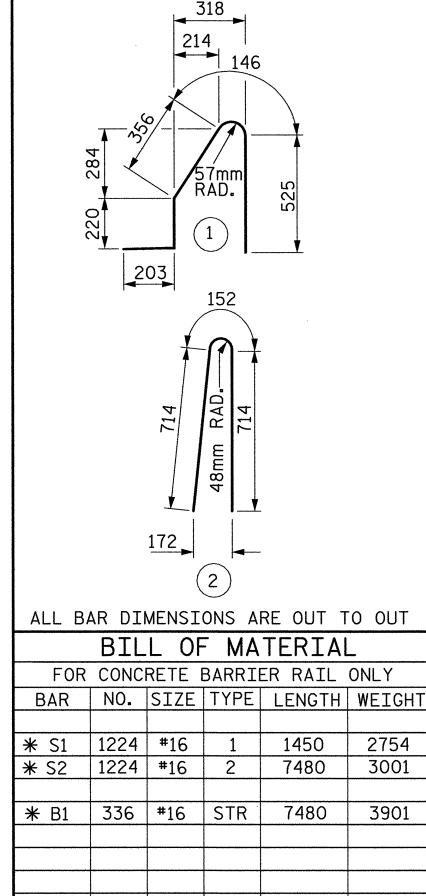
THE BARRIER RAIL IN EACH CONTINUOUS UNIT SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THAT UNIT HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 20.7 MPa.

WHEN COMPRESSION JOINT SEAL OR EVAZOTE JOINT SEAL IS REQUIRED, THE JOINT IN THE DECK SHALL BE SAWED PRIOR TO THE CASTING OF BARRIER RAIL.

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

THE #16 S3 AND #16 S4 BARS SHALL BE INSTALLED, USING AN ADHESIVE ANCHORING SYSTEM, AFTER SAWING THE JOINT. FOR ADHESIVELY ANCHORED ANCHOR BOLTS OR

VERTICAL GROOVED CONTRACTION JOINTS, 12mm 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 6.1m IN LENGTH AND NO CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 3.5m IN LENGTH.



BAR TYPES

* S1 | 1224 | #16 | 1 | 1450 | 2754 * B1 | 336 | #16 | STR | 7480 | 3901 * EPOXY COATED REINFORCING STEEL 9656 kg 90.9 CU. METER CLASS AA CONCRETE

CONCRETE BARRIER RAIL 365.866 METERS

PROJECT NO. R-2552AA WAKE - JOHNSTON COUNTY STATION: 14+38.000 -LREV- POT

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

STANDARD

THIS STANDARD DRAWING REVIEWED & ADOPTED FOR USE AT THE REFERENCED LOCATION BY THE UNDERSIGNED:

REFERENCE NO. BL-20

PLANS PREPARED BY:

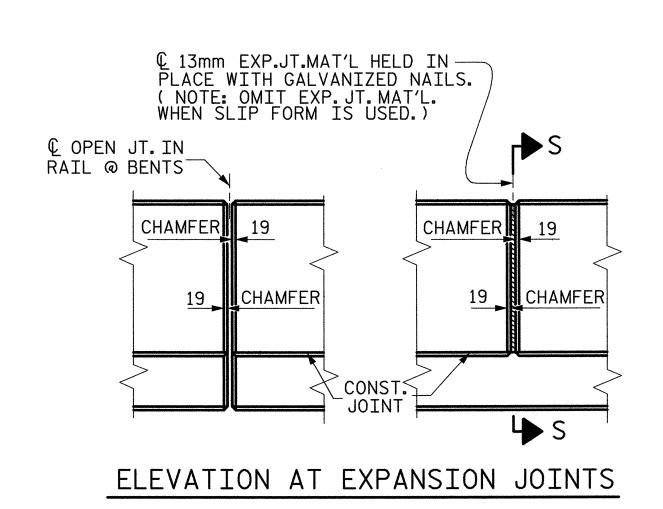
+MULKEY
ENGINEERS & CONSULTANTS

PO BOX 33127 RALEIGH, N.C. 27636 (919) 851-1912 (919) 851-1918 (FAX) WWW.MULKEYING.COM

CONCRETE BARRIER RAIL (LEFT LANE)

STD. No. CBR1SM

SHEET NO. REVISIONS NO. BY: DATE: 5-159 DATE: TOTAL SHEETS



ASSEMBLED BY : J. P. SHERMAN DATE: 7/04 DATE: 8/04 CHECKED BY: R.C. LARSON REV. 8/16/99 DRAWN BY: ARB 5/87 REV. 10/17/00 REV. 5/7/03R RWW/LES CHECKED BY : SJD 9/87 RWW/JT