

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR GUARDRAIL INSTALLATION

SHEET 5 OF 7 862D02

**BREAKAWAY TERMINAL POST SLEEVE**  
 29 3/8" length, 2" diameter, 1 1/8" hole diameter.

**DETAIL OF STANDARD WASHER**  
 STANDARD WASHER: TYPICAL USE UNDER NUT WITH WOOD POST. 1/8" THICK WASHER.

**DETAIL OF STANDARD HEX BOLT AND NUT**  
 1 1/8" length, 5/8" diameter, 1 1/4" nut diameter.

**DETAIL OF BUTTON HEAD BOLT AND NUT**  
 1 5/8" length, 5/8" diameter, 1 1/4" nut diameter, 1/8" DIA. X 3/8" DEEP RECESS.

**ANCHOR PLATE ASSEMBLY**  
 3/8" THICK END PLATE WITH 1 1/8" DIA. HOLE CENTERED IN PLATE. END PLATE TO BE WELDED TO ANCHOR PLATE.  
 5/8" HEX HEAD BOLT WITH WASHER UNDER NUT (8 REQUIRED PER ASSEMBLY).  
 1" DIA. THREADED ROD.

**SWAGED CABLE**  
 1" DIA. THREADED ROD, 5 1/4" length, 2 1/8" diameter, 3/8" DIA. GALV. CABLE TO BE SWAGED CONNECTED, 7" length.

**ANCHOR PLATE**  
 3/8" THICK GALV. STEEL PLATE, 1'-4" length, 4" width, 3/4" DIA. HOLES.

**CABLE ASSEMBLY**  
 3/8" THICK GALV. STEEL PLATE, 1'-4" length, 4" width, 3/8" THICK GALV. STEEL PLATE, 3/4" DIA. HOLES.

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**SECTION X-X**  
 3 1/4" height, 19 1/8" width, 1 1/8" hole diameter, 25° angle, 3/8" RAD., 55° angle, 1 1/8" distance, 12 1/4" total width, 25 1/8" distance, 3/8" RAD., 55° angle, 1 1/8" distance, 15 1/8" x 1 1/8" SPLICE BOLT SLOTS, 15 1/8" RAD., 3/4" x 2 1/2" POST BOLT SLOT, NEUTRAL AXIS.

**TERMINAL END SECTION**  
 2'-3 1/2" length, 6 1/4" width, 1'-9 1/4" length, 1'-1/2" LAP, 10"±2" distance, 4 1/4" distance, 33 1/8" distance, 6 1/8" distance, 1'-1 1/4" length, 15 1/8" x 1 1/8" POST BOLT SLOT, 3/4" x 2 1/2" POST BOLT SLOT, 1'-4"±2" distance.

**TYPICAL END SHOE**  
 3" height, 2'-6" length, 3 1/2" distance, 4 1/4" distance, 4" distance, 4" distance, 1'-1 1/4"±1/4" distance, 3 1/2" distance, 1" DIA. HOLES FOR 7/8" DIA. BOLTS, 3/4" x 2 1/2" POST BOLT SLOT.

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DESIGN SERVICES UNIT  
 STANDARDS AND SPECIAL DESIGN  
 Office 919-250-4128 FAX 919-250-4119

SEE PLATE FOR TITLE

ORIGINAL BY: 2002 STD.862.02 DATE: 02-09-03  
 MODIFIED BY: E.E. WARD DATE: 4-29-04  
 CHECKED BY: Joe S. Howery DATE: 4-29-04  
 FILE SPEC.: /usr/stds/02todetail/english/86202/862d02.dgn

PROFESSIONAL ENGINEER  
 JOE S. HOWERY  
 SEAL 022966  
 4/29/04

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 jward AT 03:12:00