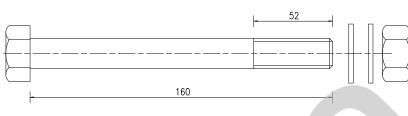
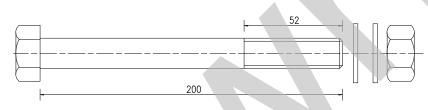


M16 BOLTS & NUTS - RAIL

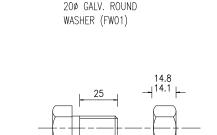


M20x160 BOLT (FB08), WASHERS (FW01) AND NUT (FN04) SOIL PLATE CONNECTION TO STEEL POST - MELT



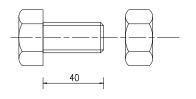
M20x200 BOLT (FB06), WASHERS (FW01) AND NUT (FN04) STRUT AND YOKE CONNECTION TO STEEL POSTS - MELT

FASTENER COMPONENTS TO POSTS - HEXAGON HEAD BOLTS AND NUTS



M16x30 BOLT (FB02) AND NUT (FN01) BLOCKOUT CONNECTION TO POST

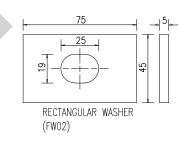
30

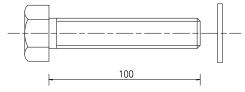


M20x40 BOLT (FB09) & NUT (FN04) SOIL PLATE CONNECTION TO POST DEPARTURE END TREATMENT

## FW02 (75x45x5)

M16x80 BOLT (FB05), RECTANGULAR WASHERS (FW02) AND NUT (FN01) FOR SLIP BASE PLATE CONNECTION TO BOTTOM SLIP BASE PLATE





M20x100 HEXAGON HEAD SCREW (FB11) AND WASHER (FW01) FOR BASE PLATE (PP01) CONNECTION TO CONCRETE SURFACE

POST BASE PLATE HEXAGON HEAD SCREW AND SLIP BASE PLATE HEXAGON HEAD BOLT AND NUT

## NOTES:

- 1. POST BOLTS FB01 & FB07 to have physical properties identical to AS/NZS 1111 (grade 4.6). Hexagon nut FN01 to AS 1112 (grade 5). SPLICE BOLT FB03 and NUT FN02 to have physical properties identical to AS/NZS 1252 (class 8.8). Nuts shall be tapped to suit galvanised threads. The length of thread on mushroom headed bolts FB01 & FB03 to be such that the nut shall touch the oval shoulder when tightened by hand.
- 2. HEXAGON BOLTS AND SCREWS to AS/NZS 1111 (grade 4.6).
- 3. HEXAGON NUTS to AS 1112 (grade 5). Nuts shall be tapped to suit galvanised threads.
- 4. BLACK STEEL WASHERS, large series to AS 1237 and taper washer to AS/NZS 1252.
- 5. ALL BOLTS, NUTS, SCREWS AND WASHERS to be treated to AS 1627 and shall be hot dip galvanised in accordance with the requirements of AS 1214.
- 6. CABLE ASSEMBLY:
  - 6.1 Cable to be minimum 20 dia. 6x19 or 6x25 wire strand core or independant wire rope core, galvanised, right regular lay to AS 3569.
  - 6.2 Cable shall be supplied with two 36 thick M24 nuts, two 5 thick gal. steel washers and one
- FN05 to cable assembly to be tightened so that ther Domain (NDD) for new projects or other nuts shall be snug tight to AS 4100.
- 8. DIMENSIONS are subject to manufacturer's tolerances ( tolerances are nominated.
- 9. ALL DIMENSIONS in millimetres unless otherwise shown. ASSOCIATED DOCUMENTS:

Department of Main Roads Manual of Standard Drawings Department of Main Roads Standard Specifications Roads REFERENCED DOCUMENTS:

Standard Specifications: Road Fürniture Australian Standards:

AS/NZS 3845 Road Safety Barrier Systems

Public domain steel barrier systems are 7. TIGHTENING OF NUTS: Nut FN01 for slip base plates to not to be used as Normal Design nstallations within the TMR network. However, this drawing can be used for the purposes of maintaining existing installations when repairs and replacements can be reasonably and readily undertaken or if justified and certified by an RPEQ as an Extended Design Domain (EDD) for new installations, where appropriate proprietary products are not suitable/feasible.

Updated Guidance stamp 3/2025

