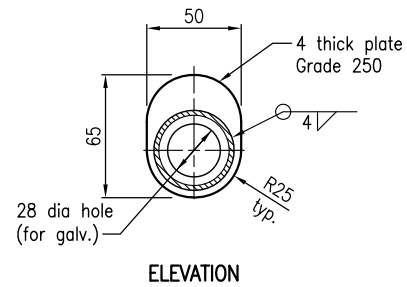
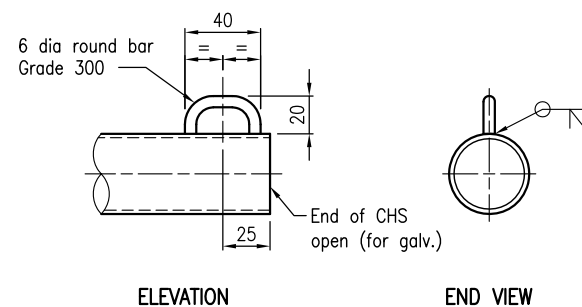


**POLE MOUNTING BRACKET DETAIL
SINGLE BANNER -
UPPER & LOWER SUPPORT ARMS**



**END PLATE DETAIL
SINGLE & DOUBLE BANNER
- UPPER SUPPORT ARM**



**LOAD BREAK LINK MOUNTING LOOP DETAIL
SINGLE & DOUBLE BANNER
- LOWER SUPPORT ARM**

NOTES:

- STEELWORK to be fabricated to the requirements of MRTS78. Steel plate to AS/NZS 3678. CHS tube to be Grade C350L0 to AS/NZS 1163. Sampsonrod Class 8.8 and nuts Class 8 to AS 1252. Galvanized chain to be Grade T to AS 2321. Sampsonrod and nuts to be hot dip galvanized to AS 1214. All other steelwork to be hot-dip galvanized to AS/NZS 4680 unless shown otherwise. Prior to galvanizing all weld splatter and welding slag is to be removed.
- WELDING symbols to conform to AS 1101.3. All welding to AS/NZS 1554.1. All welds, except location tack welds, to be SP category. Welding consumables for C350L0 CHS to be controlled hydrogen type: E49XX or W503. Welding consumables for all other structural steel shall be controlled hydrogen type: E49XX or W50X unless shown otherwise.
- WIND DESIGN LOADS:
 - Region B.
 - Terrain Category 2.5.
 - Importance Level 1.
 - Upper and lower support arms and restraints designed for a windspeed of $V = 45.2$ m/s and a point load of 1 kN at the end of support arm.
 - Load break links designed for $V_z = 24$ m/s (Total wind load on each banner = 80 kg).
- Banner supports designed for a maximum height of 15m above ground level.
- Banner installation and component testing in accordance with MRTS94A.
- DIMENSIONS are in millimetres unless shown otherwise.

ASSOCIATED DOCUMENTS:

- Main Roads Standard Drawings Roads Manual
- Main Roads Specifications and Technical Standards Manual
- Guideline for Banners on Light Poles and Bridge Superstructures

REFERENCED DOCUMENTS:

- Standard Specifications:
- MRTS78 Fabrication of Structural Steelwork
 - MRTS94A Road Lighting with Banners

Australian Standards:

- AS 1101.3 Graphical Symbols for General Engineering
- AS/NZS 1163 Structural Steel Hollow Sections
- AS/NZS 1170.0 Structural Design Actions - General Principles
- AS/NZS 1170.2 Structural Design Actions - Wind Actions
- AS 1214 Hot-dip Galvanized Coatings on Threaded Fasteners (ISO Metric Coarse Thread Series)
- AS/NZS 1252 High Strength Steel Bolts with associated Nuts and Washers for Structural Engineering
- AS/NZS 1554.1 Structural Steel Welding - Welding of Steel Structures
- AS 2321 Short-link Chain for Lifting Purposes
- AS/NZS 3678 Structural Steel - Hot-rolled Plates, Floor Plates and Slabs
- AS/NZS 4680 Hot-dip Galvanized (Zinc) Coatings on Fabricated Ferrous Articles

BANNERS ON LIGHT POLES		Queensland Government	
		Department of Transport and Main Roads	
2 METRE BANNER INSTALLATION AND SUPPORT DETAILS DRAWING 1 OF 2	A3	Standard Drawing No	
	Not to Scale	1518	
	A	Date 10/10	