NOTES:
1. (a) Electrical switchboards shall wherever possible be located adjacent to the property boundary, with the door facing the roadway.
(b) Electrical switchboards shall wherever possible be located outside the clear zone (refer RPM Chapter 9), where site constraints require that electrical switchboards are situated within the clear zone. An assessment is required to determine whether protection (i.e., by barrier barriers) is required.
2. Attach a permanent label to the main earthing conductor at the connection to the earth electrode stating: "WARNING: MAIN ELECTRICAL CIRCUIT CONDUCTOR - DO NOT DISCONNECT!
3. Ensure there are no underground services in vicinity prior to installing earth electrode.
4. The earth electrode must be driven no less than 1300mm vertically into the ground, leaving a minimum 150mm exposed length of electrode at the base of the pit.
5. In difficult soils, dig out the appropriate F3 pit size. Drive a 75mm hole vertically to 1300mm, install the earth electrode in the center of the hole, fill the auger hole with 150 mm level and install the pit over the earth electrode.
6. Only one earth electrode connected to main earth conductor permitted in one earth pit.
7. The Switchboard enclosure, photovoltaic switch and electrical component details shall comply with WRTS25.1 and WRTS25.2.
8. Approximately a 20mm length of locker end must be screwed into the switchboard post earthing pin.
9. Attach a permanent label in the switchboard stating "EARTH ELECTRICAL IN ADJACENT EARTH PIT.
10. Dimensions are in millimeters unless otherwise stated.

ASSOCIATED DEPARTMENTAL DOCUMENTS:
Standard Drawings
Specifications
Traffic and Road Use Management Manual (TRUM) - Volume A.5 Electrical Design for Roadside Devices
Road Planning and Design Manual (RPDM)

REFERENCE DOCUMENTS:
Departmental Standard Drawings:
1146 Traffic Signals/Road Lighting/RTS - Installation of Underground Electrical and Communications Conduit
1317 Traffic Signals/Road Lighting - Wires Connections
1421 Traffic Signals - Traffic Signals Post and Plumbing Installation Details
1428 Traffic Signals - Traffic Signal Post Base Mounted
1623 Road Lighting - Switchboard Typical Layout and Circuit Diagram
1624 LED System
1628 Road Lighting - Post - Top Mounted Switchboard
1699 Traffic Signals/Road Lighting/RTS - Parts List

Departmental Specifications:
WRTS25 Conducts and Fills
WRTS26 Traffic Signal and Road Lighting Fixtures
WRTS210 Provision of Mains Power
WRTS218 Electrical Switchboards
WRTS216 Power Cables

Australian Standards:
AS/NZS 3003 Electrical Installations (Wiring Rules)

A INSTALLATION OF CONDUCTS AND FITS IS THE RESPONSIBILITY OF THE LICENSED ELECTRICAL CONTRACTOR
COMPLETE SWITCHBOARD INSTALLATION SHALL NOT BE LOCATED CLOSER THAN 1.5M TO AN MV POLE WITH A TRANSFORMER MOUNTED ON IT.

DEPARTMENT OF TRANSPORT AND MAINS ROADS

ROAD LIGHTING

SWITCHBOARD TOP MOUNTED

Standard Drawing No 1627

Not to Scale

Data 3/2012