NOTES:
1. This drawing complies with the requirements of AS/NZS 3000:2007 clause 19.4.
2. Rate 2 road lighting to joint use poles and combination mast arms must be used where the local
   electricity network will supply Rate 2 road lighting.
3. Connection to Electricity Network to be in accordance with local Electricity Entry requirements.
4. Single Phase only shown.
5. Install label inside each door of pole/mast arm.
6. Project design must ensure the specific project design complies with the earth fault loop impedance
   and disconnect time requirements to minimize the risk of body shock currents.
7. Dimensions are in millimeters unless shown otherwise.

ASSOCIATED DEPARTMENTAL DOCUMENTS:
Standard Drawings
Specifications:

REFERENCED DOCUMENTS:
Departmental Standard Drawings:
1377 Traffic Signals/Road Lighting – Joint Use Traffic Signal and Road Lighting Pole
1390 Traffic Signals – Basic Pole Mounted Pole Wiring Details
1408 Traffic Signals – Traffic Signal Terminal Panel for Joint Use Poles Wiring Details
1412 Road Lighting – Mast Arm Road Lighting Junction Box (Type B) Wiring Details
1414 Traffic Signals – Mast Arm Traffic Signal Junction Box (Type A) Wiring Details
1432 Traffic Signals – General Arrangements
1477 Traffic Signals/Road Lighting – Mast Arm (U Series) Installation Details
1623 Road Lighting – Switchboard Typical Layout and Circuit Diagram VEN System
1624 Road Lighting – Junction Box Single Phase Wiring Details
1625 Road Lighting – Junction Box Three Phase Wiring Details
1670 Traffic Signals – Traffic Signal Wiring Connections

TRAFFIC SIGNALS/ROAD LIGHTING

ROAD LIGHTING SUPPLY

Unmetered Rate 2 Supply

Electrical Entry Fence

Electrical Entry Pillar

Photocell

Road Lighting Luminaires

2x2.5mm²

3x1.5mm² XEPE PVC

(Typical)

Resident Protective Device in PJ

MDI Connection

Pole/Mast Footing

20A Fuse Switch

Next Rate 2
Road Lighting Pole on same Circuit

6mm Earth

36 Core Multi Core
Traffic Signal Cable
(5 cores of 36 shown)

Traffic Signal Controller

Traffic Signal

Lantern

Lighting Control
Board

E

6mm Earth

Department of Transport and Main Roads

TRAFFIC SIGNALS/ROAD LIGHTING

ELECTRICAL WIRING SCHEMATIC

Rate 2

1678

Standard Drawing No.

Date 16/10/95

Departmental Specifications:
WRTS293 Traffic Signals
WRTS294 Road Lighting
WRTS226 Electrical Switchboards
WRTS256 Power Cables

Australian Standards:
AS/NZS 3000 Wiring Rules