SEQUENCE OF INSTALLATION:
1. Locate pole position relative to the roadway after checking for services and determine crossfall.
2. Dig hole and excavate bolts.
3. Determine finished surface level and suspend anchor bar cage in correct position relative to the finished surface level.
4. Threads to be protected and conduit plugged before pouring concrete.
5. Pour concrete footing to within 150 mm of top of anchor bar cage and allow to set.
6. Locate pole 60 mm above finished footing level. Ensurecompatible bolts washers are in place.
7. Level pole, finger tighten M24 high strength fixing nut and M24 high strength temporary nut on each threaded bar on base plate.
8. Form anchor pad and base plate using one of the following methods. Mix and apply mortar in accordance with manufacturer's specifications. Mortar pad edges bordered as shown:
   a. Pack Preformed Concrete M5 mortar or approved equivalent in place. Mortar mix to be in plastic consistency, or
   b. Pour Preformed Concrete M5 mortar or approved equivalent in place. Mortar mix to be in workable consistency.
9. Wait until mortar has achieved final set in accordance with manufacturer's specifications before tensioning nuts.
10. Remove temporary nuts from top of base plate.
11. Tension the remaining nuts to 135 Nm minimum.

ANCHOR CAGE ORIENTATION
- Parallel to road centreline
- Traffic flow (dual carriageway)
- Direction of outreach
- Reference point
- Location of highway

BASE PLATE ORIENTATION
- For dual outreach only

FOOTING DETAILS

<table>
<thead>
<tr>
<th>Pole Height (excludes outreach)</th>
<th>Minimum Depth of Footing (D)</th>
<th>Minimum Diameter of footing (W)</th>
<th>Bar Length</th>
<th>Bar Size</th>
<th>Specialised design required</th>
</tr>
</thead>
<tbody>
<tr>
<td>7000</td>
<td>600</td>
<td>900</td>
<td>400</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>8000</td>
<td>600</td>
<td>900</td>
<td>400</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>10000</td>
<td>600</td>
<td>900</td>
<td>400</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>13000</td>
<td>600</td>
<td>900</td>
<td>400</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: A specialised footing design shall also apply for road lighting poles or a verge/shoulder within the following
horizontal distances from the kerb line point:
- 3.0m for poles with a 600mm dia footing,
- 3.5m for poles with a 700mm dia footing.

INSTALLATION FOR CROSSFALLS GREATER THAN 1:2

N25/20 concrete poured into excavated anchor hole without form.
Anchor cage reference standard designed 1329 and WPT52

NOTES:
1. Formwork to be provided for top 150 of footings in collapsing soils.
2. A 7-day minimum curing period must be allowed for concrete pole boxes before fixing poles.
3. Poor soil consists of any of the following: Soft clay, loose sand and soft clay/sandy mixture.
4. The installation has been designed to withstand wind conditions as defined in WPT52.
5. The diagram shows dual carriageway, however only one carriageway may be present.
6. Concrete base to prevent leaking of soil around column footing. (Int. thickness 75).
7. Ensure conduit is not blocked.
8. Dimensions are in millimetres unless otherwise specified.

The purpose of this drawing is to provide typical standard details. The fitness for purpose of this drawing for a specific project shall be determined and certified by an EEC Engineer. Additional project specific details may be required to be included in the scheme drawings.

INSTALLATION OF CONDUIT AND PAST IN THE VICINITY OF THE LICENSED ELECTRICAL CONTRACTOR

ASSOCIATED DEPARTMENTAL DOCUMENTS:
- Standard Drawings (Specifications)

REFERENCED DOCUMENTS:
- Departmental Standard Drawings
- 1140 Traffic Signals/Road Lighting/TS — Installation of Underground Electrical and Communications Conduit
- 1329 Road Lighting/TS Camera Pole — Anchor Cage Fabrication Details
- 1399 Road Lighting — Base Plate Mounted Pole Wiring Details
- 1680 Traffic Signals/Road Lighting — Extension to Light Pole and Mast Arm Anchor Cages
- 1799 Traffic Signals/Road Lighting/TS — Parts List

Departmental Specifications:
- WPT52 Concretes
- WPT53 Manufacturer of Precast Concrete Elements
- WPT54 Cables and Fittings
- WPT59 Traffic Signal and Road Lighting Fittings
- WPT594 Road Lighting
- WPT57 Manufacturer of Precast Concrete Elements

AUS Standard:
- AS 1275 Metallic screw threads for fasteners

Department of Transport and Main Roads

ROAD LIGHTING

BASE PLATE MOUNTED POLE AND FOOTING INSTALLATION DETAILS
FOR CROSSFALLS GREATER THAN 1:2