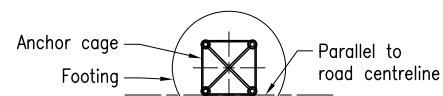
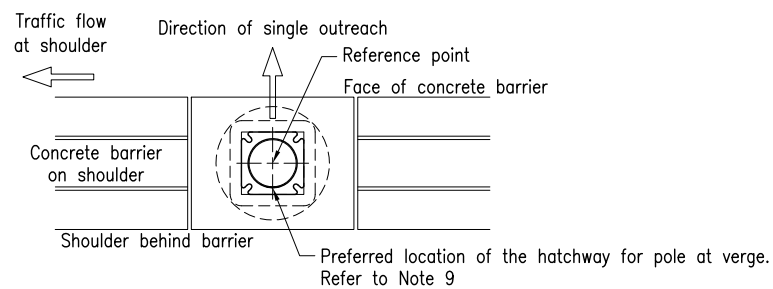


ELEVATION
GENERAL ARRANGEMENT

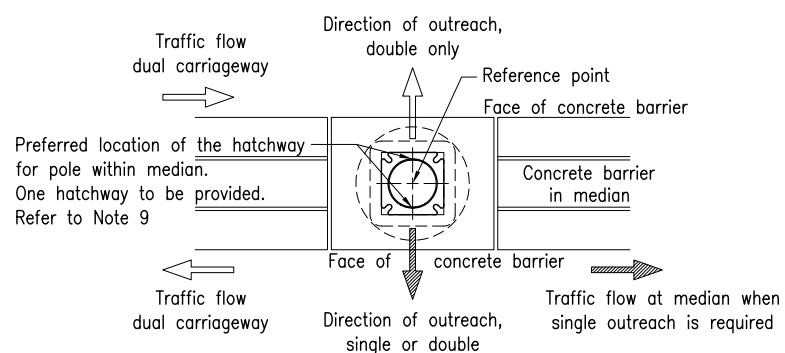


PLAN - FOR ALL POLES

ORIENTATION DETAILS FOR ANCHOR CAGE

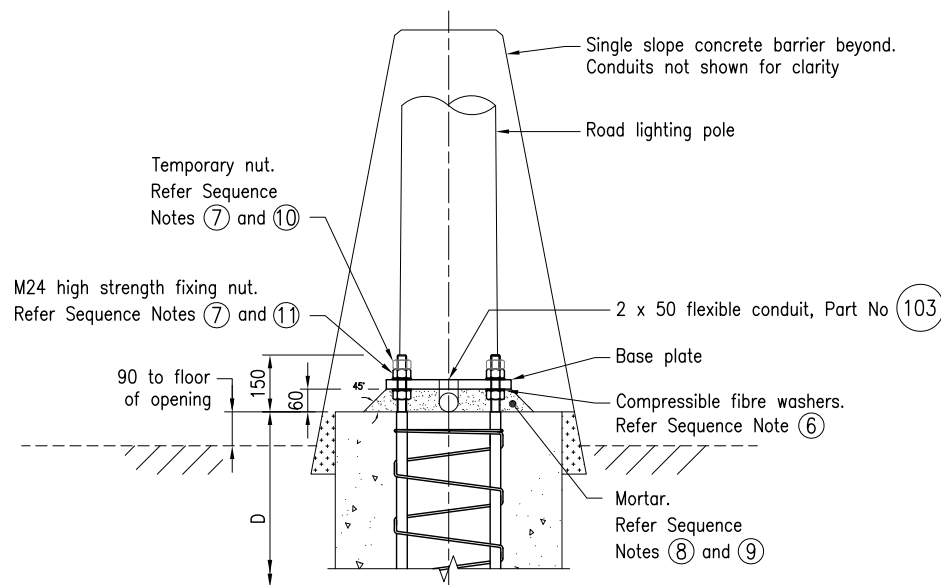


PLAN - POLE AT VERGE BARRIER

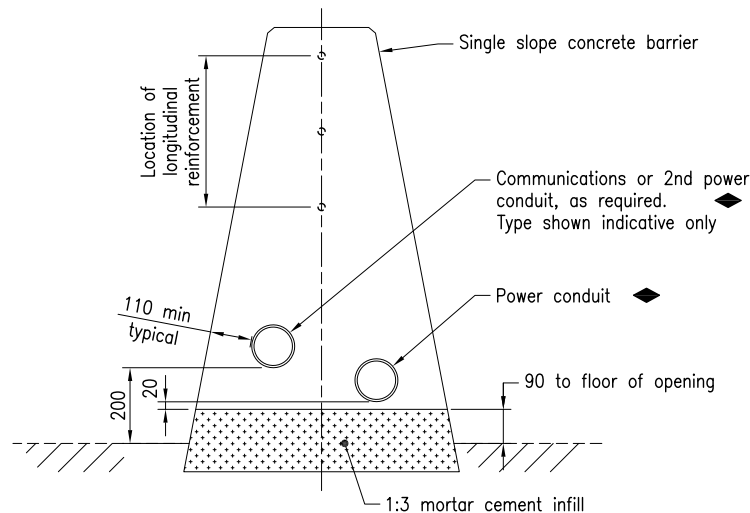


PLAN - POLE AT MEDIAN BARRIER

ORIENTATION DETAILS FOR POLES WITHIN CONCRETE BARRIERS



SECTION A
INSTALLATION DETAILS FOR ANCHOR CAGE AND BASE PLATE MOUNTED POLE



SECTION B
CONDUIT SETOUT AT OPENING

! INSTALLATION OF CONDUITS AND PITS IS THE RESPONSIBILITY OF THE LICENSED ELECTRICAL CONTRACTOR

FOOTING DETAILS						
	Pole Height (excludes outreach)	Minimum Depth of Footing (D) Refer Notes 2 and 5		Minimum Diameter of footing (W)	Bar Length Refer Notes 1 and 5	
		Av. Good Soil	Poor Soil Refer Note 3		Av. Good Soil	Poor Soil Refer Note 3
AT MEDIAN BARRIER	7000	1900	2300	600	2000	2000
	8500			600		
	10000			600		
	13000			700		
AT VERGE BARRIER	Where the footings for base plate mounted poles are in a concrete verge barrier, the footing details shall be in accordance with Standard Drawing 1392.					

SEQUENCE OF INSTALLATION:

1. Locate pole position relative to the roadway.
2. Dig/bore and excavate hole.
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 of top of anchor bar cage and allow to set.
6. Locate pole 60mm above finished footing level. Ensure compressible fibre washers are placed on the levelling nuts.
7. Level pole, finger tighten M24 high strength fixing nut and M24 high strength temporary nut on each threaded bar on base plate.
8. Immediately form mortar pad under base plate using Parchem Conbextra HES grout or approved equivalent. Mix and apply in accordance with manufacturer's specifications. Mortar pad edges bevelled as shown.
9. Wait until mortar has achieved final set in accordance with manufacturer's specifications before tensioning nuts.
10. Remove temporary nuts.
11. Tension the remaining nuts to 135 Nm minimum.

NOTES:

1. ANCHOR CAGES shall be in accordance with the details on this drawing and Standard Drawing 1328, and Standard Drawing 1680 for extension to anchor cage if required.
2. FOOTINGS for road lighting poles within concrete barriers shall be to MRTS92 and in accordance with the details on this drawing.
3. Poor soil consists of any of the following: Soft clay, loose sand and soft sand/clay mixes.
4. CONCRETE shall be in accordance with MRTS70. A seven day minimum curing period must be allowed for the footing before fixing the pole.
5. For split carriageways, footing and anchor cage length shall be increased 300 (net) for each 300 rise in the split. Refer Standard Drawing 1468.
6. CONDUITS shall be in accordance with MRTS91 and MRTS200. Refer Standard Drawing 1468 for setout within barriers, and Standard Drawing 1431 for wiring details. Ensure the conduits are not blocked.
7. Approved pest/vermin proof devices shall be fitted to all conduit openings, and shall be sealed with a PVC cap or approved equivalent.
8. ROAD LIGHTING POLES shall be in accordance with MRTS97.
9. ORIENTATION OF HATCHWAY for all poles in concrete barriers shall be in accordance with the details on this drawing and approved by the administrator. Where poles are located in concrete barriers on the verge, or other pavement near the carriageway, and the area behind the concrete barrier is accessible to maintenance crews, the hatchway shall be orientated perpendicular to the direction of traffic flow, on the verge side. For split carriageways, the hatchway shall be on the higher pavement side of the pole. Where there is no safe access behind the pole, the hatchway shall be located 90° to the direction of travel on the road. The orientation of the hatchway for each pole shall be documented on the as constructed drawings for future reference by maintenance crews.
10. Dimensions are in millimetres.

REFERENCED DOCUMENTS:

- Departmental Standard Drawings:
- 1328 Road Lighting - Anchor Cage Fabrication Details
 - 1392 Road Lighting - Base Plate Mounted Pole and Footing Installation Details for Crossfalls up to and Including 1:2
 - 1431 Road Lighting - Base Plate Mounted Pole Wiring Details for Median Barriers
 - 1468 Single Slope Concrete Barrier - Extruded Median Barrier
 - 1680 Road Lighting - Extension to Light Pole and Mast Arm Anchor Cages
 - 1699 Traffic Signals/Road Lighting/ITS - Parts List
- Departmental Specifications:
- MRTS70 Concrete
 - MRTS91 Conduits and Pits
 - MRTS92 Traffic Signal and Road Lighting Footings
 - MRTS94 Road Lighting
 - MRTS97 Mounting Structures for Roadside Equipment
 - MRTS200 General Requirements for ITS Infrastructure

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 RPEQ Engineer. Additional project specific details may be required to be included in the scheme drawings.

Department of Transport and Main Roads				ROAD LIGHTING	
ROAD LIGHTING				Standard Drawing No	
BASE PLATE MOUNTED POLE WITHIN CONCRETE BARRIER - FOOTING DETAILS AND INSTALLATION OF POLE		A3	1395		Date 3/2021
		Not to Scale			