

Type IV pull boxes shall be used adjacent to light pole foundations in paved areas except where interlocking pavers are used. They should be installed between the foundation race way conduit and the electrical conduit. Cables shall be direct buried under sidewalks and interlocking pavers used in parking areas except at the entry or exit of sector roads or parking areas where PVC ducts shall be provided. Cables under interlocking tiles at the entry or exit of sector roads and parking areas, shall be through concrete encased PVC ducts.

All PVC conduits and ducts for underground cable lighting circuitry, shall be a minimum of 10 cm diameter. There should be a minimum of one spare duct at each crossing. Where lighting cables are proposed along the service reserves at road crossings, the available electrical ducts shall be used. Separate lighting road crossing ducts are not required at these locations.

The underground lighting cables shall be installed along electrical service reserves in all possible cases. Wherever the lighting cables are proposed outside the service reserve, the cable route shall be immediately adjacent to the curb line.

Separate earthing is required only at the terminal pole of each circuitry. All light poles and fixtures shall be earthed through the cable armoring.

### 1006 DESIGN AND SUPERVISION RESPONSIBILITIES

The Municipality is responsible for the lighting criteria standards to light the roads. This criterion covers illumination levels, uniformity ratios and distribution and differences in brightness of the roadways.

WED may suggest/advise of criteria or improvements in lighting for the Municipality and its Consultant to consider in design and construction. However, WED responsibility is limited to advising of its requirements for maintenance and access to the lighting poles and lanterns for inclusion in the Specifications. The Municipality and its Consultant are responsible for adherence to the lighting specifications.

WED is responsible for the technical specifications and sizing for the electrical power supply for the lighting system including underground cable circuits, fuses, control cabinets, pull boxes and conduit. Accordingly, WED will be responsible for review of contractor submittals covering these items during the construction period. WED shall have the right to inspect such construction in the field and approval by WED shall be required prior to burial of the underground cable circuitry by the Contractor.