

Part 1 General

1.1 RELATED SECTIONS

- .1 Section 01 33 00 – Submittal Procedures.
- .2 Section 01 74 11 – Cleaning.
- .3 Section 01 74 21 – Construction/Demolition Waste Management and Disposal.
- .4 Section 31 23 33.01 – Excavating, Trenching and Backfilling.

1.2 MEASUREMENT AND PAYMENT

- .1 Supply and installation of conduits shall be measured in linear metres of each size of conduit acceptably installed. Trenching, supply and installation of Type 4 Fill and detectable marking tape, fish cord and backfilling shall be incidental to the conduit unit price.
- .2 The relocation of existing conduits shall not be measured for payment, but shall be considered as incidental to the work.

1.3 REFERENCES

- .1 Canadian Standards Association (CSA International)
 - .1 CSA C22.2 No. 211.2-M1984(R2003), Rigid PVC (Unplasticized) Conduit.

1.4 SUBMITTALS

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product data: submit manufacturer's printed product literature, specifications and datasheets.
 - .1 Submit cable manufacturing data.
- .3 Quality assurance submittals:
 - .1 Test reports: submit certified test reports.
 - .2 Certificates: submit certificates signed by manufacturer certifying that materials comply with specified performance characteristics and physical properties.
 - .3 Instructions: submit manufacturer's installation instructions.

1.5 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate waste materials for reuse, recycling and disposal in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- .2 Place materials defined as hazardous or toxic waste in designated containers.
- .3 Ensure emptied containers are sealed and stored safely for disposal away from children.

Part 2 Products

2.1 CONDUITS

- .1 Rigid pvc conduit: to CSA C22.2 No. 211.2.
 - .1 50 mm diameter.

2.2 CONDUIT FITTINGS

- .1 Fittings: manufactured for use with conduit specified. Coating: same as conduit.

2.3 EXPANSION FITTINGS FOR RIGID CONDUIT

- .1 Weatherproof expansion fittings with internal bonding assembly suitable for 100 mm linear expansion.
- .2 Watertight expansion fittings with integral bonding jumper suitable for linear expansion and 19 mm deflection.

2.4 FISH CORD

- .1 Polypropylene.

2.5 DETECTABLE MARKING TAPE

- .1 Backing material: Aluminum.
- .2 Width: 150 mm.

Part 3 Execution

3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheets.

3.2 INSTALLATION

- .1 Use rigid pvc conduit underground.
- .2 Bend conduit cold:
 - .1 Replace conduit if kinked or flattened more than 1/10th of its original diameter.
- .3 Install fish cord in empty conduits.
- .4 Remove and replace blocked conduit sections.
 - .1 Do not use liquids to clean out conduits.

3.3 CONDUITS UNDERGROUND

- .1 Slope conduits to provide drainage.
- .2 Waterproof joints (pvc excepted) with heavy coat of bituminous paint.
- .3 Pipe surround: Type 4 fill to 95% maximum density to ASTM 1557 in accordance with Section 31 23 33.01 – Excavating, Trenching and Backfilling.

3.4 CLEANING

- .1 Proceed in accordance with Section 01 74 11 - Cleaning.
- .2 On completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.

END OF SECTION