

**SPECIFICATIONS FOR
SUPPLYING AND PLACING ELECTRICAL AND TELEPHONE CONDUITS**

1.0 DESCRIPTION

The Work shall consist of:

- .1 Supplying and placing electrical conduits, including pull wires, expansion sleeve components and associated materials;
- .2 Placing telephone conduits, including pull wires, expansion sleeve components and associated materials; and
- .3 Supplying and placing junction and outlet boxes.

2.0 REFERENCES AND RELATED SPECIFICATIONS**3.0 SUBMITTALS**

The Contractor shall submit the following to the Engineer, in accordance with the Special Provisions:

- .1 The Manufacturer's certification that the materials supplied meet the specified requirements.

4.0 MATERIALS**4.1 General**

All electrical material shall be CSA approved and approved by the Engineer.

4.2 Conduit

The Contractor shall supply electrical conduit for the lighting system as shown on the Drawings, including all necessary elbows, adapters and fittings.

Telephone conduit, complete with couplings and fittings, as shown on the Drawings will be supplied free of charge to the Contractor by the Manitoba Telephone System (MTS) at their Stores Department, 1300 Ellice Avenue, Winnipeg, Manitoba. The Contractor shall give MTS 24 hours notice of his intent to pick up the material.

4.3 Junction Boxes and Outlet Boxes

The Contractor shall supply junction boxes and outlet boxes of the type and sizes as shown on the Drawings.

4.4 Pull Wire

The Contractor shall supply galvanized steel pull wire, not less than 2.769 mm in diameter, 900 MPa in strength and of the length required to place in each electrical, communications and telephone conduit for its full length.

5.0 CONSTRUCTION METHODS

5.1 Placing of Conduit

All conduit shall be placed as shown on the Drawings.

The conduit to be placed in concrete shall be firmly anchored in place to prevent movement during placing of the concrete. Extreme care shall be exercised when placing concrete to prevent damage to the conduit. The open ends of the conduits shall be suitably capped to protect the conduit from damage and prevent the entry of concrete or gravel in the ends.

5.2 Placing of Junction and Outlet Boxes

Boxes shall be placed in the positions shown on the Drawings and shall be firmly anchored in place to prevent movement during the placing of the concrete. The junction boxes shall be properly connected to the conduits.

5.3 Placing of Pull Wire

The pull wire shall be placed full length in all electrical and telephone conduits and shall be firmly anchored at the open ends of the conduits.

5.4 Obstructions

The Contractor shall ascertain whether any obstructions, including concrete, are blocking the conduit or the junction and outlet boxes. All obstructions shall be removed by the Contractor at his own expense.

6.0 QUALITY MANAGEMENT

After all conduits have been placed, a final inspection shall be made prior to the placement of concrete to locate any damage or deficiencies.

All visible damage or any deficiencies shall be repaired to the satisfaction of the Engineer before concrete is placed and after the concrete is placed. The Contractor shall allow the Engineer unhindered access to the work and shall assist the Engineer in carrying out any inspection.

7.0 METHOD OF MEASUREMENT

7.1 Electrical Conduit

Supplying and placing electrical conduit, including pull wires, associated materials, junction boxes and outlet boxes, will be paid for on a Lump Sum Basis and no measurement will be made of this work.

7.2 Telephone Conduit

Placing telephone conduit, including pull wires, associated materials, junction boxes and outlet boxes, will be paid for on a Lump Sum Basis and no measurement will be made of this work.

7.3 Junction and Outlet Boxes

Supplying and placing junction and outlet boxes, as required, will be considered incidental and no measurement will be made of this work.

8.0 BASIS OF PAYMENT

8.1 Electrical Conduit

Supplying and placing electrical conduit will be paid for at the Contract Lump Sum Price for "Supply and Place Electrical Conduit", measured as specified herein, which price shall be payment in full for performing all operations herein described and all other items incidental to the Work.

8.2 Telephone Conduit

Placing telephone conduit will be paid for at the Contract Lump Sum Price for "Place Telephone Conduit", measured as specified herein, which price shall be payment in full for performing all operations herein described and all other items incidental to the Work.