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**PART 1**      **GENERAL**

**1.1**            **SECTION INCLUDES**

- .1      Provision of rigid conduit and concrete - encased underground service ducts.

**1.2**            **RELATED SECTIONS**

- .1      Section 01 33 00 – Submittal Procedures.
- .2      Section 26 05 00 - Common Work Results - Electrical.
- .3      Section 26 05 28 - Grounding - Secondary.
- .4      Section 26 05 34 - Conduits, Conduit Fastenings and Conduit Fittings.
- .5      Section 26 05 43.01 - Installation of Cables in Trenches and in Ducts.
- .6      Section 33 65 73 – Concrete Encased Duct Banks.

**1.3**            **REFERENCES**

- .1      Codes and standards referenced in this section refer to the latest edition thereof.
- .2      Canadian Standards Association (CSA)
  - .1      CSA A23.1/A23.2, Concrete Materials and Methods of Concrete Construction/Methods of Test for Concrete.

**1.4**            **REGULATORY REQUIREMENTS**

- .1      Co-ordinate and meet requirements of power supply authority. Ensure availability of power when required.

**PART 2**      **PRODUCTS**

**2.1**            **MATERIALS**

- .1      Underground ducts: rigid PVC type, size as indicated.
- .2      Epoxy coated rigid steel galvanized conduit and fittings: to Section 26 05 34 - Conduits, Conduit Fastenings and Conduit Fittings. Use for sections extending above finished grade.
- .3      Conductors: copper, type RWU-90, to Section 26 05 21 – Wires and Cables (0 -1000v), size and number of conductors as indicated.
- .4      Concrete: to CSA A23.1/A23.2 and Division 3 - Concrete.

- .5 Backfill: clean and free from debris.

### **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 Install cables in ducts in accordance with Section 26 05 43.01 - Installation of Cables in Trenches and in Ducts.
- .2 Allow adequate conductor length for connection to supply by power supply authority.
- .3 Install meter socket and conduit.
- .4 Allow adequate conductor length for connection to service equipment.
- .5 Make grounding connections in accordance with Section 26 05 28 - Grounding - Secondary.
- .6 Provide concrete encasement in accordance with CSA A23.1 and as indicated on drawings.
- .7 Install pulling irons as required.
- .8 Seal ducts and conduits at building entrance location after installation of cable.
- .9 This Contractor is responsible to co-ordinate with Newfoundland Power for connection of the building electrical service. All contribution in aid of construction (CIAC) must be paid by the Contractor.

#### **3.3 FIELD QUALITY CONTROL**

- .1 Perform tests in accordance with Section 26 05 00 - Common Work Results - Electrical.
- .2 Perform additional tests as required by authority having jurisdiction.
- .3 Submit written test results for review and approval.

#### **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**