

SCOPE OF ELECTRICAL WORK

1. GENERAL

- .1 Supply and install all material, equipment, wiring and labour necessary for the installation of the systems detailed on the Drawings and included in the Specifications in accordance with the latest edition of the Canadian Electrical Code.
- .2 All areas inside the surge tower including the ladder access are classified as Category 1 wet locations. All materials and installation methods shall be suitable for the environment. The electrical room at the base of the tower is classified as an ordinary location.

2. WORK INCLUDED

2.1 General Requirements

- .1 General Clean-up.
- .2 All inspection and other permits, licenses required by various Inspection Agencies and local regulations related to Electrical Trade.
- .3 Special testing or inspection, additional to the above as specified or covered by a Cash Allowance.
- .4 Scaffolding.
- .5 Shop Drawings.
- .6 Project Record Documents (As-Built Drawings) where specified.
- .7 O&M Data, where specified.

2.2 Specific Requirements Included But Not Limited to the Scope of Work

- .1 Provide direct buried cables from 600 V non-essential MCC located in DBPS building to the distribution panel.
- .2 Supply and install 40A, 3P breaker in non-essential MCC located in DBPS building.
- .3 Provide 600 V power distribution panel, transformer, 120/208 V panel board, lighting and heating as indicated on the Drawings.
- .4 Provide lightning protection on surge tower.
- .5 Disconnect electrical and phone service to existing site trailer. Reconnect services at new location.
- .6 Existing electrical cables from DBPS building to Chemical Feed building shall be relocated as indicated on the Drawings, and as follows:

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- .1 Supply and install two 600 V cables from DBPS MCC to Chemical Feed building MCC and CDP 'E'.
- .2 Supply and install PVC conduits for future 5 kV cables and future fibre optic cables from DBPS building to West side of rail track as indicated on the Drawings.
- .3 Supply and install new telephone cable from telephone room in DBPS to PLC control panel in Chemical Feed building.
- .4 Supply and install two (2) modbus plus communications cables from DBPS main control panel to Chemical Feed building PLC control panel.
- .5 Supply and install two (2) network termination cabinets complete with patch panels, Ethernet switches, cabling and two (2) 24 fibre cables from DBPS control room to the Chemical Feed building control room.
- .6 Supply and install new cable tray in Chemical Feed building.

END OF SECTION