

PART 1: GENERAL**1.1 RELATED WORK**

- .1 This section to be read in conjunction with Bid Documents and drawings.
- .2 Division 15 shall include all related electrical controls and work.

1.2 APPLICABLE SPECIFICATIONS

- .1 While not identified and specified by number in this document, Contractor will comply with all requirements of Division 16, CSA Electrical Bulletins, and all Provincial and local laws, rules, ordinances and codes.
- .2 Electrical installation shall be in accordance with the current edition of the Canadian Electrical Code, Provincial and other codes, rules and regulations. Supply material and labour required to meet the requirements of these codes, rules and regulations even though the work is not shown on the drawings or mentioned in the specifications. Where the electrical installation calls for better quality materials or construction than the minimum requirements of these codes, rules and regulations, the electrical installation shall be as shown on the drawings and as specified.
- .3 Electrical installation shall be in accordance with the requirements of the electrical supply authority and local inspection authority. Contractor shall obtain all necessary permits and pay all fees required. Contractor shall obtain a certificate of inspection and approval from the electrical inspection department having jurisdiction on completion of the Work, and submit it to the Contract Administrator prior to final inspection of the Work.

1.3 SCOPE OF WORK

- .1 Disconnect and remove existing buss bar and two 175A breakers in 600V 3 phase panel. Supply and install new breakers for two 200kW 600V 3 phase boilers and two 120V single phase pumps. Confirm electrical requirements with equipment shop drawings. All salvage equipment is to be returned to the City.
- .2 Disconnect and remove redundant conduit and wiring from two ceiling drops by existing hot water boilers.
- .3 Wiring and connection of all mechanical equipment as indicated on drawings for a complete and working system.

1.4 MATERIALS AND EQUIPMENT

- .1 All materials shall be new and C.S.A. approved.
- .2 Conduits shall be electric metallic tubing unless otherwise noted on drawings or prohibited by regulations. Outlet boxes and fittings for exposed conduit work mounted below 82" above finished floor shall be FS and FD condulets. Conduits to be run parallel with building structure.

- .3 Outlet, junction and switch boxes shall be galvanized pressed steel of size and type to suit the requirements of each outlet. Outlet boxes shall be accessible. Sectional boxes shall not be used.
- .4 Wiring shall be copper of standard "AWG" size with 600V (90 degrees Celsius) insulation. Insulation shall be x-link polyethylene unless prohibited by regulations. Minimum wire size shall be #12 AWG.