1.1 **GENERAL**

1.2 **Related Technical Requirements**

   .1 *Divisions 26 and 28*
   .2 *Division 27 Section 27 05 26 Grounding and Bonding for Communications Systems*

1.3 **Coordination Requirements**

   .1 SFU Facilities

1.4 **Description**

   .1 SFU requirements for Electrical Grounding.

2.1 **MATERIALS DESIGN REQUIREMENTS**

2.2 **Ground Wires**

   .1 Grounding conductors shall be installed as required by the Code.
   .2 From the neutral ground position of each transformer, a grounding conductor shall be extended to the ground bus.
   .3 Ground wire for ground electrodes shall be # 4/0 copper.
   .4 All ground wire shall be tested for continuity. Record each continuity test and include in ground system report.

2.3 **Ground Wires**

   .1 Unit substation and pad mounted transformers shall have a ground grid.

2.4 **Ground Rods**

   .1 Ground rods shall be 3/4" x 10' copper clad ground rods.

2.5 **Ground Fittings**

   .1 Ground connections shall be made with compression fittings that are CSA approved for grounding.
   .2 Ground grid connections for buried ground grid splices shall be Cad welded or CSA approved compression connected.

2.6 **Telecommunications Bonding**

   .1 Please refer to 1.1.2 *Section 27 05 26 Grounding and Bonding for Communications Systems* for specialized telecommunications bonding requirements.

2.7 **Fire Alarm Bonding**

   .1 Please refer to *Section 28 31 00 Fire Detection and Alarm* for specialized Fire Alarm systems bonding/grounding.

***END OF SECTION***