PART 1  GENERAL

PART 2  PRODUCTS

2.01  Verify all part numbers with UAF Facilities Services for latest update.

2.02  SF6 switches:

   A. Four-way or six-way as required.

   B. 600 amps continuous load.

   C. 40,000 asymmetrical amps (momentary).

   D. Quick-change apparatus bushings to fit 600 amp non-loadbreak elbow connectors.

   E. With paneled floor frame for floor mounting.

   F. G&W RAM series, Brand Name Only, No Alternate Brands, No Substitutions.

2.03  600 amp non-loadbreak elbows connectors:

   A. 15KV.

   B. Aluminum or copper as required to match the metal of the bushing being connected to.

   C. Elastimold 655LR series, Alternate Brand Request or Substitution Request required

   D. Complete with all proper cable adapters.

   E. With test point.

2.04  Cabling:

   A. 15KV interlocked armored cable:

      1. 3 conductor.

      2. 220 mil EPR insulation.

      3. Copper conductors.

      4. 15,000 Volt, with grounding conductor.

      5. Interlocked aluminum armor.
6. Overall PVC jacket, type MC, General Cable Duralox EP or other manufacturer identified by the consultant meeting this design standard.

7. Heavy duty one hole straps for MC cable supports along utilidor walls.

B. Single conductor 15KV cable: Size as required for load, shielded, jacketed 220 mil insulation, copper conductors, General Cable Unishield EP, or other manufacturer identified by the consultant meeting this design standard.

PART 3 EXECUTION

3.01 When installing type MC cable:

A. Attach pulling devices to the cable conductors, not the armor.

B. Attach armor to the conductors with tape to prevent armor slippage during pulling.

3.02 Proof test SF6 switches with high voltage D.C. per IEEE Standard 400 acceptance test procedures along with the high voltage cable. Follow all manufacturers’ recommendations. UAF is to confirm use of independent testing agent, considering size/scope of high voltage work. Test cabling on the spool prior to pulling and again after pulling the cable into place.

3.03 Use heat shrink jacketing to protect the shielding where 15KV MC cables come into an enclosure for splicing or termination.

END OF SECTION