PART 1 - GENERAL

1.1 RELATED WORK .1 Electrical General Requirements: Section 26 05 00

PART 2 - PRODUCTS

2.1 EQUIPMENT .1 Clamps for grounding of conductor, size as required to grounding buses.

.2 System and circuit, equipment, grounding conductors, bare stranded copper, un- tinned, soft annealed, size as indicated.

.3 Insulated grounding conductors: green, type RW90 in all conduits. Minimum size: #14 AWG or as indicated in Table No. 16 of C.E.C., whichever is larger.

.4 Ground bus: copper, size as indicated complete with insulated supports, fastenings and connectors.

.5 Non-corroding accessories necessary for grounding system, type, size, material as indicated, including but not necessarily limited to:
.1 Grounding and bonding bushings.
.2 Protective type clamps.
.3 Bolted type conductor connectors.
.4 Thermit welded type conductor connectors.
.5 Bonding jumpers, straps.
.6 Pressure wire connectors.

.6 Copper crimp type compression connectors, (long barrel, two hole).

2.2 MANUFACTURERS .1 Acceptable manufacturers: FCI - Burndy Corporation, Erico Inc., Thomas & Betts, Ilsco.

PART 3 - EXECUTION

3.1 INSTALLATION GENERAL

.1 Install complete permanent, continuous, system and circuit, equipment, grounding systems including, conductors, connectors, accessories, as indicated, to conform to requirements of Departmental Representative, and local authority having jurisdiction over installation.

.2 Install connectors in accordance with manufacturer's instructions.

.3 Protect exposed grounding conductors from mechanical injury.

.4 Use mechanical connectors for grounding connections to equipment provided with grounding lugs.

.5 Soldered joints are not permitted.

.6 Make grounding connections in radial configurations only, with connections terminating at single grounding point. Avoid loop connections.

.7 Provide insulated copper bonding conductor in all conduit runs.

3.2 SYSTEM AND CIRCUIT GROUNDING

.1 Install system and circuit grounding connections to neutral of secondary systems.

3.3 EQUIPMENT GROUNDING

.1 Install grounding connections to typical equipment included in, but not necessarily limited to following list: transformers and power factor correction equipment.

.2 Install grounding connection(s) to generator frame and neutral in accordance with manufacturer's instructions and applicable CEC requirements.

3.4 GROUNDING BUS

.1 Install new copper grounding bus as indicated, mounted on insulated supports on the wall.

.2 Ground items of electrical equipment to ground bus.

3.5 FIELD QUALITY CONTROL

.1 Perform tests in accordance with Section 26 05 00.

.2 Perform ground continuity and resistance tests using method appropriate to site conditions and to approval of Departmental Representative and local authority having jurisdiction over installation.

.3 Perform tests before energizing electrical system.

END