DIVISION 16 - ELECTRICAL

Section 16320 - Transformers (High Voltage)

Introduction

Transformers should be mounted on a raised concrete pad a minimum of 4” above the finished floor.

At each transformer a ground ring should be supplied with a 3/4” x 10’ copper weld or copper clad ground rod at each corner tied together with a 3/0 copper ground conductor. This shall supply a grounding electrode for the transformer. Exothermic weld grounding electrode conductor to transformer ground pad.

Part 1 - General

• Refer to Appendix Section 16320 and incorporate into project.

• Coordinate new building design to allow for easy removal of distribution transformers from building interiors.

• Transformers shall first be considered for outdoor placement. When indoor placement is approved, provide permanent hoisting and dolly apparatus with egress pathway for easy replacement. Utilize station transformers with a primary knife switch.

• Transformers shall be loop feed with 4-way load break switch. Mount arrestors on the spare bushings. Refer to detail 16320-D1

Part 2 - Products

• Refer to Appendix Section 16320 and incorporate into project.

Part 3 - Execution

• Refer to Appendix Section 16320 and incorporate into project.

• All 13.8 KV equipment not utilized or in use inside or outside a building and its associated wiring shall be removed all the way back to where it originates.
FOUR-POSITION SECTIONALIZING LOADBREAK SWITCH PUB 03047 FOR INCLUSION IN PAD MOUNTED TRANSFORMERS