

DIVISION 16 - ELECTRICAL

Section 16435 – Switchboards

Introduction

There are unique University requirements.

Part 1 - General

- Refer to Appendix Section 16435 and incorporate into project.
 - Provide a comprehensive specification.
 - Include the following in performing the design and specifications.
 - Pull sections shall be required.
 - Top of main device shall be line side.
 - Sections shall have steel barriers or galactic barriers between each section.
 - Metering shall be cold sequence.
 - Metering shall be Veris as specified in Metering Section 16430.
 - Suppressor shall be hard bussed and mounted in its own cubicle.
 - Areas next to last section shall be planned and marked on the floor for future extension. Provide the housekeeping pad now.
 - Integrated switchboard design is discouraged unless required by the UA Electrical Engineer.
 - Bussing and system design will address coordination of devices. Designer shall provide 4 to 1 separation on motor feeder devices and transformer feeder devices, when referenced to the upstream device.
 - Transformer feeder breakers shall be electronic, and coordinated to the transformer and its inrush.
 - Consultant shall base initial coordination on Cutler Hammer, Seimens or Square D.
 - Provide electronic type breakers on devices below 200 amperes whenever clean coordination cannot be achieved, including elevator feeder breakers.
 - NEMA 1 Construction with sprinkler shield.

Part 2 - Products

- Refer to Appendix Section 16435 and incorporate into project.
- Approved manufacturers, subject to submittal review are Cutler Hammer, Siemens and Square D.

Part 3 - Execution

- Refer to Appendix Section 16435 and incorporate into project.
- Edit carefully, as required for the project.

End of Section 16435