UNIVERSITY OF MICHIGAN
ARCHITECTURE, ENGINEERING AND CONSTRUCTION

ARCHITECTURE & ENGINEERING
326 East Hoover, Mail Stop B
Ann Arbor, MI 48109-1002
Phone: 734-764-3414
Fax: 734-936-3334

BuildingName
The Description of the Project
P00000000 0000

SPECIFICATION DIVISION 26

NUMBER SECTION DESCRIPTION

DIVISION 26 ELECTRICAL
SECTION 261000 - MEDIUM VOLTAGE ELECTRICAL DISTRIBUTION

END OF CONTENTS TABLE

DIVISION 26 ELECTRICAL
SECTION 261000 - MEDIUM VOLTAGE ELECTRICAL DISTRIBUTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

INCLUDE PARAGRAPH 1.1.A AND B IN EVERY SPECIFICATION SECTION. EDIT RELATED SECTIONS 1.1.B TO MAKE IT PROJECT SPECIFIC.

A. Drawings and general provisions of the Contract, Standard General and Supplementary General Conditions, Division 1 Specification Sections, and other applicable Specification Sections including the Related Sections listed below, apply to this Section.

IN 1 AND 2 BELOW, DELETE SUSTAINABLE DESIGN IF NOT APPLICABLE TO THE PROJECT. SELECT PROPER COMMISSIONING SPEC SECTION NUMBER APPLICABLE TO THE PROJECT.

B. Related Sections:

1. Section 018113 - Sustainable Design Requirements
2. Section 019100/019110 - Commissioning
3. Section 017823 - Operation and Maintenance Manual
4. Section 260513 - Medium, Low & Control Voltage Cables
5. Section 260526 - Grounding and Bonding for Electrical
6. Section 260533 - Electrical Materials and Methods
7. Section 260800 - Electrical Acceptance Tests

1.2 PHASING

A. The Owner’s primary system phase rotation is A-B-C.

B. Phase new installations X-Y-Z (or A-B-C) from top to bottom, front to back and left to right when viewed from the front. Phase existing installations to match the existing.

1.3 SPLICES AND TERMINATIONS

A. The Owner's Electric Shop primary crew shall install medium voltage primary cable splices. Coordinate installation through the Owner’s Representative. Splices shall be made with Raychem Type HVS heat shrink splice kits only. Connectors for straight splicing shall be of the two way, solderless, compression type.

B. Medium voltage primary cable terminations shall be made with Raychem Type HVT heat shrink termination kits or 3M Company Quick Term cold shrink termination kits. Lugs for terminations shall be of the two-hole, solderless, compression type.

PART 2 - PRODUCTS (NOT APPLICABLE)

PART 3 - EXECUTION

3.1 INSTALLATION REQUIREMENTS

A. Pull primary cables in lengths not exceeding 500 feet. Avoid exceeding manufacturer's recommendations on pulling tension, sidewall pressures and cable bend radii. Train cables passing through manholes neatly in the same relative positions as in the duct bank, without crossing each other, and support them by porcelain insulators from the manhole cable racks.

B. Ground the shields of primary cables at both ends. When primary cables are spliced in manholes, bond the cable shields at the splices to the manhole ground system.

C. Identify the cable phases at all primary cable terminations. Identify phases in 1-1/2" high minimum letters painted on the cable supports or potheads wherever possible. When painting is not possible, identify phases in 1/2" high minimum letters on tags permanently attached to the cables.

3.2 FIELD QUALITY CONTROL

A. Perform testing in accordance with Specification Section 260800, and submit a test report.

3.3 COMMISSIONING

A. Perform Commissioning activities per Related Sections above.

END OF SECTION 261000