

## **DIVISION 16 - ELECTRICAL**

### **Section 16195 - Electrical Identification**

#### **Introduction**

To provide ready identification of power source for maintenance personnel.

#### **Part 1 - General**

- The following items are to be identified as to source of power:

- Receptacles
- Safety Switches
- Motor Starters
- Junction boxes
- Snap Switches on inside of plate with indelible felt-tip marker

- The following items are to be identified as to what they service.

- Safety Switches
- Motor Starters
- Panelboards
- Switchboards
- Time Clocks

- The following items are to be identified to match the identification indicated on the drawings:

- Panelboards
- Switchboards
- Transformers

- Other items which require identification will be identified in the section pertaining to them.

#### **Part 2 - Products**

- For panelboards, safety switches, motor starters, switch boards use black on white plastic engraved identification signs attached using #6 self tapping screws.
- For receptacles use clear acrylic labels self-adhesive by "Brother P-Touch" Equip. or approved equal. Print color shall be black for normal systems and red for emergency.
- For wires use vinyl impregnated cloth tags.
- For color coding cables use vinyl marking tape.
- For j-boxes write in large letters on cover using an indelible magic marker. Where exposed, identification is to be on inside face of cover.
- Panelboards shall have typewritten directories indicating actual room numbers and any other pertinent information for the circuit served. (I.E. COPIER ROOM 131, EF-3, NW CORNER OF ROOF, RECEPTACLES E & W WALLS RM 242). Verify room numbers with University, prior to typing the directories. Use proper room numbers. Note new room numbers on as-built drawings.

**Part 3 - Execution**

- Require that the new typewritten panel directories be installed after each project or remodel, updated to reflect all changes. Existing panel schedules shall be left in panel for reference.
- J-boxes for fire alarm circuits shall be painted RED and labeled using an indelible black marker "Fire Alarm".
- Identify ground wires and neutral conductors at all j-boxes, pull boxes, or wherever wires are accessible. Spiral tape continuous where accessible. Ground wires and neutral conductors size #8 and below will have colored insulation.
- COLOR CODES for new work shall be as follows:
- All conductors shall have integral colored insulation.

**POWER WIRING**

<b>PHASE</b>	<b>120/208 VOLTS</b>	<b>277/480 VOLTS 4160/13800 VOLTS</b>
A	BLACK	BROWN
B	RED	ORANGE
C	BLUE	YELLOW
NEUTRAL	WHITE	GRAY
GROUND	GREEN	GREEN

**FIRE ALARM WIRING**

Refer to Section 16720 (pg. 16720-7)

**End of Section 16195**