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 acrylic labels self-adhesive by “Brother P-Touch” Equip. or approved equal.

- 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. Removed panel schedules shall be returned to the UA Electrical Engineer.

- 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**

<table>
<thead>
<tr>
<th>PHASE</th>
<th>120/208 VOLTS 4160/13800 VOLTS</th>
<th>277/480 VOLTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>BLACK</td>
<td>BROWN</td>
</tr>
<tr>
<td>B</td>
<td>RED</td>
<td>ORANGE</td>
</tr>
<tr>
<td>C</td>
<td>BLUE</td>
<td>YELLOW</td>
</tr>
<tr>
<td>NEUTRAL</td>
<td>WHITE</td>
<td>GRAY</td>
</tr>
<tr>
<td>GROUND</td>
<td>GREEN</td>
<td>GREEN</td>
</tr>
</tbody>
</table>

**CLOCK AND BELL**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>BLUE</td>
</tr>
<tr>
<td>B</td>
<td>BLACK</td>
</tr>
<tr>
<td>C</td>
<td>ORANGE</td>
</tr>
</tbody>
</table>

**FIRE ALARM WIRING**

Refer to Section 16720 (pg. 16720-7)

End of Section 16195