SECTION 260553 - ELECTRICAL IDENTIFICATION

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Contractor Provide:

1. Wire and cable markers to indicate the breaker on which cable is terminated.
2. Nameplates for disconnects
3. Conduit marking.

1.2 QUALITY ASSURANCE

A. Comply with:

1. ANSI A 13.1. Identification of Piping Systems.
2. National Electrical Code. (NEC)

1.3 REFERENCES. Specified references, or cited portions thereof, current at date of bidding documents unless otherwise specified, govern the work. In conflict between referenced standards and contract documents, notify Architect/Engineer immediately. Confirm notification in writing. Do not proceed with the work until the Architect/Engineer issues written instructions.

A. American National Standards Institute (ANSI): ANSI A13.1 - Identification of Piping Systems.

B. National Fire Protection Association (NFPA): NFPA 70 - National Electrical Code (NEC).

C. Underwriters Laboratories, Inc. (UL): All products UL listed and labeled.

D. Manufacturers' Catalogs: Specification manufacturers' catalogs are incorporated by reference to same force and effect as if repeated herein in full.

1.4 SUBMITTALS

A. Submit product data.

B. Submit list of wording, symbols, letter size, and color coding for each piece of equipment specified.

C. Submit manufacturer's installation instruction.

PART 2 - PRODUCTS

2.1 NAMEPLATES AND LABELS

A. Nameplates: Engraved two-layer laminated plastic, black letters on white background.

B. Locations:

1. Panelboards.
2. Disconnect Switches.
3. Lighting contactors

C. Size of plate shall be commensurate with lettering thereon.

D. Lettering for disconnect switches, shall be 1/4" in height.

E. Wording on plate shall contain the following information as appropriate.

1. Drawing nomenclature, such as Panel LP1.
2. Voltage.
3. Location of panel feed from.

2.2 WIRE IDENTIFICATION

A. Provide wire markers on each conductor in panel board gutters, pull boxes, outlet and junction boxes, and at load connection. Identify with branch circuit or feeder number and source panel for power and lighting circuits. Provide wire markers for all new and existing cables.

B. Wire Insulation Color:

1. 120/208V 3 Phase
2. Phase A: Red
3. Phase B: Blue
4. Phase C: Black
5. Neutral: White
6. Equipment Ground: Green
7. Isolated Ground: Green with Yellow Stripe

C. Code all wire and cable larger than color coded sizes available from manufacturer by application of electrical plastic tape in colors specified. Apply tape in uniform manner circling wire or cable. Half-lap tape for length of cable as required by the NEC. Tape shall be 3M, Plymouth or Permacel.

D. Maintain consistent coding throughout installation to ensure proper phase and system identification. If existing cables do not meet this standard, the contractor shall provide colored tape within 6 inches of the termination to indicate the above referenced standard.

PART 3 - EXECUTION

3.1 APPLICATION

A. Permanently mark all junction boxes with the panel and circuit number.

END OF SECTION 260553