

Edison State College Design & Construction Guidelines

Electrical Equipment

260000-1

Item	Manufacturer	Model/Material
Medium Voltage Motor Controllers		ABB
Primary Voltage Cable		Standard
Raceway and Boxes		
Floor Boxes		
Fuses		
Raotary Uninterruptable Power Units		
Static Uninterruptable Power Supplies		APC
Details	Manufacturer	Model/Material
200 Ampere Loadbreak Separable		Square D
Basic Electrical Materials and Methods		
Cabinets and Enclosures		
Communications	Low Voltage Transformers. Dry Type	
Dry Type Transformers		
Enclosed Circuit Breakers		
Enclosed Contactors		
Enclosed Controllers		
Medium Voltage Air Interrupter Switch		
Medium Voltage Circuit Breaker Switch		
Motor Control Centers	HOA Switches	
	Magnetic Starter	
	Motor Control Center	
	Motor Control Starters	
Pad Mounted Transformer		
Panelboards		
Power Distribution Units		
Switchboards	Disconnects	
Medium Voltage Air Interrupter Switch		
Transformer Load Centers		
Transformers for Nonlinear Loads		Square D
Variable Frequency Drives		ABB
Exterior Luminaire	King Luminaire	Monitor Bollard
	Stresscrete Inc.	Type N #KCH18-SHO
Interior Luminaire	Exit light	Dualite LED
Recessed Fluroscnt – 2'x 2'	Low glare Parabolic	2 LP T8 U 12 Watt

Note: All products used on Edison State College projects must be in compliance with the most current applicable edition of the Florida Building Code.

Recessed Fluorescent – 2'x 4' Double ballast	Lithonia, 18 cell	2PM3NGB33218LDM VOLT GEB10IS
Incandescent Downlight	Gotham Lights	APR PAR30 6AR TRW
Emergency Lighting	Exit light	Dualite LE Series LRP1-RC-120/277 ELN
	Emergency Light	EZ-2 Series

NOTE: All 2'x 4' Fluorescent lights to be double ballasted and switched separately in all occupied rooms.

1.01 IDENTIFICATION OF CONDUITS, RACEWAYS AND JUNCTION BOXES

A. Color Coding and Labeling: Conduits and junction boxes to be color coded as follows.

<u>System</u>	<u>Color code</u>
1.) Lighting-277V	Bright Yellow
2.) Normal Power (277/480V)	Kelly Green
3.) Normal Power (120/208V)	Royal Blue
4.) Fire Alarm	Red
5.) Telephone/Computer	Black
6.) TV	Light Pink
7.) Back up Power Systems	Purple
8.) Equipment	Orange
9.) Life Safety	White
10.) Abandoned	Equipment Grey

B. General:

1. Conduit, raceways, boxes, etc.... Shall be spot painted prior to labeling. Conduits shall be identified with in 6 inches of the box or enclosure. The entire box and cover plate shall be painted.
2. Apply bands 10 feet on center along the raceway systems.
3. All receptacles to be marked with circuit and panel label markers.
4. Receptacles and outlets near floor level shall be 16 inches off the finished floor on the bottom and 20 inches to the top.

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5. All light fixtures to be independently supported on each corner from the main structure by means of approved wire ties or hangers.
6. All in wall wiring to be in EMT raceways. All conduits used to be minimum 1 trade size larger than required by NEC for wire fill. **No MC to be used on Edison projects.**

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DATA CABLING STANDARDS FOR EDISON STATE COLLEGE

Data and Voice Cables

All cable used must meet manufacture specification for Cat 6 rating and must be able to supply such specs upon request from Edison State College.

PVC cabling may be used unless NEC Code requires Plenum Cabling (Air return ceilings)

All data drops must be tested and certified upon completion.

Data and Voice Jacks

Jacks used must be either Leviton, Ortronics, or Keystone and must meet Cat 6 requirements.

Plates

Outlet plates must match the jacks being used and must be labeled per Edison State College specs.

Patch Panels

Patch panels to be used are Cat 6 Leviton, Ortronics, or Signamax Cat 6. And must support POE (power over ethernet)

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