

**NOTE:** Sections that are bolded have been updated and posted to FPD website.

**210100 Fire Protection Systems**

Page 7: 18.2. Rolla: See City of Rolla Ordinance 4104 referenced below.

Page 7-8: **REFERENCES** - Added the ordinance.

Page 2 & 6: Added the option of Nitrogen for fill of dry pipe systems and flexible braided hose to sprinkler heads in locations where approved by the campus PM.

**221000 Plumbing Piping and Specialties**

Changed the storm and sanitary piping, above grade, to solid-wall, Schedule 40, PVC Pipe in lieu of cast iron no-hub piping systems. This and exceptions for its use are noted in the left margin.

**224000 Plumbing Fixtures**

UMSL campus only – hard-wired sensor operated flush valves.

**230000 Heating Ventilating and Air-Conditioning (HVAC)**

Various updates – as identified in the left margin

**233816 Fume Hoods**

5 - Referenced compliance with ASHRAE HVAC Applications Handbook and/or ASHRAE Laboratory Design Guide.

7.5 - Deleted reference to lab control section that doesn't exist. For UMKC projects, allowed the possibility of laboratory control systems other than Phoenix.

**260519 Low Voltage Electrical Power Conductors and Cables**

Added locations MC cable is allowed.

**260519 LV Electrical Power – MC Diagram (NEW)**

**260533 Raceway and Boxes for Electrical Systems**

Although MC cable is not considered a raceway, a clarification is included in the first paragraph related to the update for 260519 above.

**262923 Variable Frequency Motor Controllers**

Added 1.02E, 1.03I, and 2.05. Updated 2.01B and deleted 3.01I.

**264100 Facility Lighting Protection**

Expanded to ensure compliance with NFPA 780 and Owner involvement during UL inspections.

**265100 Interior Lighting**

Various updates – as identified in the left margin

**283100 Fire Alarm Systems**

Digital communicator updates as needed due to changes in technology.

**331233 Water Utilities Metering**

Updated 1.4.1.2