

2021 Q1 Engineering Design Guideline Updates

May 4, 2021

NOTE: Sections that are **bolded** have been updated and have been posted to Box/UM_MU Design Guidelines/2021 Working Documents INTERNAL. See Division folders and click.

<https://missouri.app.box.com/folder/4893515749?s=1w895oh6nulrqpt20u156jvwogxgmjva>

DIVISION 7

07 8400 Firestopping

Modified the first sentence on paragraph 3.

DIVISION 21

21 0100 Fire Protection System Design

Firestopping revision on page 1, paragraph 7.

DIVISION 22

22 0100 Plumbing System Design

Firestopping revision on page 1, paragraph 5.

Deleted hand-sketched drawings. See new .pdf drawing files:

- 220100 Mechanical Room Floor Drain Detail.pdf (*NEW*)
- 220100 Mechanical Room Floor Drain Typical Locations.pdf (*NEW*)
- 220100 Rain Leader Detail.pdf (*NEW*)

22 1000 Plumbing Piping and Specialties

Added sentence 11.b – Refer to new drawing above for mechanical room floor drain locations and open top drain detail for typical plumbing equipment.

DIVISION 23

23 0000 Heating Ventilating and Air-Conditioning (HVAC)

Firestopping revision on page 1, Item 5.

23 0900 Control Systems (UMKC)

Numerous edits as indicated in the left margin.

23 2100 – Building Hydronic Piping and Pump Systems

- Firestopping revision on page 1, Item 7.
- Added two (2) sentences to paragraph 3 on page 2 regarding the specific requirements for Missouri S&T's low temperature heating coils served by the geothermal campus system to coincide with 23 0000 Heating Ventilation and Air Conditioning (HVAC).

23 3000 HVAC Air Distribution

Added a section F.9 in the Design Guidelines detailing balance damper design to match 23 0000 Heating Ventilation and Air Conditioning (HVAC).

DIVISION 26

26 0500 Common Work Results for Electrical

Numerous edits as indicated in the left margin.

= Revisions. ■= Section deletion. N= New material

26 2300 Low Voltage Switchgear (NEW)

New guideline

26 2923 Variable Frequency Motor Controllers

Updated models for Toshiba and Yaskawa.

26 2400 Switchboards, Switchgear, Panelboards and Motor Control Centers

This guideline has been deleted and replaced with 262300, 262413, 262416 and 262419.

26 2413 Switchboards (NEW)

New guideline

26 2416 Panelboards (NEW)

New guideline

26 2419 Motor Control Centers (NEW)

New guideline

DIVISION 27

27 0000 MU Telecom Building Construction Standards 2021

Moved from FPD Documents Page to Division Guidelines on UM FPD's website.

27 0000 Telephone and Data Rooms MST UMKC UMSL

Numerous edits to previous edition to separate the MU campus guidelines from other campuses.

DIVISION 28

28 3100 Fire Alarm Systems

- Firestopping revision on page 1, Item 5.
- Added some clarification to paragraph 7.13 regarding variance requests to these design guidelines when fire alarm system wiring in conduit may be difficult.
- 7.17.1 Added "listed and labeled by an NRTL".
- 7.17.2 Original sentence was deleted.
- 7.17.8 Modified sentence entirely.

DIVISION 33

33 8000 MU Telecom Service Construction Standards (NEW)

The MU guidelines for Telecom Service are the same as the previous version. This section was simply moved to new section under Division 33 which is more appropriate. Use this standard for other campuses unless directed by the campus IT professional.

(end)