

Project: Project Name (eB #)

FM Global Requirements

- Drawings & specifications need to convey the design & installation is in accordance with FM Global Data Sheets
- Is the university Fire Protection Engineer and EHS on the submittal distribution list? Submittals
- The contractor needs to submit sprinkler shop drawings and calculations to the CU Fire Protection Engineer via eBuilder

Service Entrance - Backflow Preventer (BFP)

- Piping between the water supply wall flange and the backflow preventer has to be cement-lined ductile iron per the plumbing code. Black steel and ductile iron are NOT allowed.
- Is backflow preventer a Reduced Pressure Zone (RPZ)?
- CU requires all backflow preventers (BFPs) to be RPZs. Consultant needs to work with PM to discuss BFP intent and permitting process with the CU water purveyor.
- A double check valve is acceptable under certain circumstances, as approved by the CU water purveyor
- Does BFP employ a detector assembly?
- Detector BFPs shall not be specified. Also, keep an eye out for this during submittal review; contractor may submit on a detector assembly even if not specified.
- Does RPZ have adequate drainage?
- RPZ drain needs to be capable of handling a full street-side pressure release

Fire Pump - Fire Pump Requirements

- Fire pump specified? If so, what is the driver? Fire pump shall be employed only as a last resort or if required by Code. Consultant shall perform due diligence and design sprinkler systems to work with available street pressure.

Standpipes - Manual Standpipes

- Standpipes are allowed by the local AHJs (in non-high-rise buildings)
- Design Criteria listed in the documents?
- Regardless of standpipe type, please add the standpipe design criteria to the construction drawings. Criteria shall include standpipe type and class, maximum design flow rate, most remote riser, flow rate per rise, Supply pressure (i.e., 150 PSI max at the FDC), and pressure at the top of riser.
- Have hydraulic calculations been performed for the standpipe? FP contractor shall perform hydraulic calculations for standpipes regardless of the type (MANUAL or AUTOMATIC).

Piping - Piping Specifications

- All pipe sizes shall be Schedule 40, ASTM 53A Type F or Type S. Schedule 10 or any other thin-wall piping is NOT allowed. Type E pipe is NOT allowed. Galvanized pipe is NOT allowed.
- CU FP standard has flushing valve prescriptive requirements. At the very least, a detail needs to be provided in the CDs to make the contractor successful in this regard.
- All check valves shall employ an internal inspection access port (i.e., Viking G-1). Check valves like the Victaulic 717 are NOT allowed
- Air vents and relief valves are required on all systems regardless of which version of NFPA 13 is currently referenced by the BCNYS
- Dry-pipe systems need to employ a nitrogen treatment generator