

DIVISION 21 - FIRE SUPPRESSION

21 00 00 FIRE SUPPRESSION

21 05 00 COMMON WORK RESULTS FOR FIRE SUPPRESSION

1. Locate all water-filled lines in heated spaces. If this is not possible, use dry-charged system. Risers shall not be located in front of, or in close proximity to, outside air louvers or ducts.
2. Use recessed heads with 2 piece adjustable escutcheon so system does not have to be shut down to change a ceiling tile.
3. Prior to final bid documents, review sprinkler head selection with GVSU.
4. Consultant is responsible for proper design of fire suppression systems. Consultant is responsible for verifying capacity of municipal water systems and any requirements for booster pumps and back-up generators that may be required for booster pumps, supporting the fire suppression system as a result of verified inadequate water pressures for the specific building system design.
5. Consultant is required to coordinate design of fire suppression system with University, the University's Office of Public Safety and Allendale Fire Department. Coordination shall include, but is not necessarily limited to, location and signing of fire system risers, location of shut-off and post indicator valves.
6. Where required, use post indicator valves for exterior shut-off.
7. All piping is to be labeled and color-coded according ANSI Z535.1-1991 Safety Color Code and ANSI A13.1-1981 Scheme for Identification of Piping Systems. Pipe markings must effectively communicate the contents of the pipes and give additional information if special hazards (such as extreme temperatures or pressures) exist, ie. "Steam 100 PSIG". Arrows shall indicate direction of flow. Label placement shall insure that labels can be easily read based upon label elevation and viewing angle of individual. Labels, at a minimum, shall be placed near valves (within 6 feet max.), where change in direction occurs, on entry/re-entry points thru walls and floors, and on straight segments with spacing between labels that allows for easy identification.
8. Mechanical pipe joints such as Vitaulic, Groove-Lok, etc, shall be permitted in dry fire protection systems and in mechanical rooms only. Under no circumstances shall this type of piping be permitted above classroom, laboratory, office, auditorium, theatrical or otherwise publicly occupied spaces.

END OF SECTION