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215000 - Fire Protection

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SECTION 21 5000 - FIRE PROTECTION

1.1 SUMMARY

- A. The design of the plumbing work for all projects performed for the University shall be prepared in accordance with the latest University Planning, Design, and Construction Guidelines.
- B. Design documents shall be prepared by an entity offering professional design services under a current Certificate of Authority issued by the State of New Hampshire Joint Board of Licensure and Certification.
- C. All Fire Protection documents shall be prepared under the supervision of an employee acting as the responsible engineer for the entity and eligible to be listed on the Certificate of Authority.
- D. All construction work shall be provided utilizing licensed installers in accordance with the State of New Hampshire Fire Code.
- E. The University shall act as the Authority having Jurisdiction for the water supply to the project location.
- F. The Town of Durham shall be the Authority having Jurisdiction for all fire protection suppression systems.
- G. No construction work shall proceed without the required appropriate permits being obtained.
- H. Design documents shall conform to the most current State of New Hampshire Fire Code.
- I. All new installations and retrofits shall be inspected by the current University Sprinkler System Inspection Contractor during the warrantee period to verify compliance with NFPA Standard No.13 and Durham Fire Department Standards including Appendix A. NFPA 13R shall not be considered for use as an acceptable Design Standard for design of construction for University Projects.
- J. At the completion of the project and/or final acceptance testing of the sprinkler system a copy of the Contractor's Certificate showing how the system functioned during the trip test and verifying that the air loss is less than one/half per pound day shall be supplied.
- K. See Chapter 5, Division 01, Section 017700.1.1.B.1.i Closeout Procedures - Project Record Documents for equipment list requirements for all equipment provided in this section.

1.2 PRODUCTS

- A. Dry Systems shall be avoided. - Where used a threaded piping system shall be used and there shall be less than a one/half pound air loss per day. A Victaulic system would only be used with the prior written approval of University Facilities Design and Construction. Where steel pipe is used in preaction and dry pipe systems, piping materials shall be limited to internally galvanized steel. Air compressor shall not include an air dryer.
- B. Plastic pipe shall not be included as an acceptable material for any sprinkler systems.

PART 3 - EXECUTION

- A. All drains and test connections for new installations shall be piped to allow full flow.
- B. All dry system piping shall include a specified amount of pitch and installed to prevent forming low points or traps. Drains shall terminate within a heated area.

END OF SECTION 21 5000