

Section Number	Title
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<b>21 00 00</b>	<b>FIRE SUPPRESSION</b>

**PLEASE REFERENCE THE NAU FIRE MARSHAL WEBSITE FOR FURTHER INFORMATION** <http://nau.edu/Facility-Services/Operations/Office-of-the-Fire-Marshal/>

#### **Kitchen Hood Fire Suppression Systems**

System Designer: Fire suppression system plans and specifications shall be developed in accordance with NFPA 17A by persons who are experienced in the proper design, application, installation and testing of wet chemical fire suppression systems.

System Installer: Installation personnel shall be supervised by persons who are qualified and experienced in the installation, inspection and testing of fire alarm systems. Qualified personnel shall include, but not limited to, the following:

- a. Personnel who are factory trained and certified for the fire suppression installation of the specific type and brand being installed,
- b. Personnel who are certified by a nationally recognized fire suppression certification organization,
- c. Personnel who are registered, licensed or certified by a State or local authority.

System Requirements: All exposed piping, fittings, and conduit shall be chrome or chrome sleeved.

Contractor shall provide a two (2) year warranty on all system equipment and installation.

#### **21 10 00 WATER-BASED FIRE SUPPRESSION SYSTEMS**

##### **Automatic Building Fire Suppression**

Heat tracing for fire suppression piping exposed to freezing conditions will not be specified for new buildings and shall be replaced wherever possible in renovations.

Design wet pipe sprinkler systems, unless installed in areas subject to freezing.

Provide access panels for all hidden valves. Panels shall be labeled to the type of valve accessed from the panel.

Specify drain valves for each low loop of the system. Drain valves shall be piped to the exterior of the building or to a floor sink.

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Existing system shut-down shall be coordinated with NAU Fire Life Safety at 928-523-4227.

Contractor shall complete and provide: Contractor’s material and test certificate for underground, and above ground piping.

21 11 16 Facility Fire Hydrants

Approved hydrant manufacturer: The American Waterous Pacer.

**21 22 00 CLEAN-AGENT FIRE EXTINGUISHING SYSTEMS**

Designer and installer qualifications: Installation contractor shall be a factory certified authorized distributor.

System designer – Fire suppression system plans and specifications shall be developed in accordance with NFPA 2001 by persons who are experienced in the proper design, application, installation, and testing of clean agent fire suppression systems.

System installer – installation personnel shall be supervised by persons who are qualified and experienced in the installation, inspection and testing of fire alarms systems. Qualified personnel shall include but not limited to, the following:

- a. Personnel who are factory trained and certified for the suppression installation of the specific type and brand being installed,
- b. Personnel who are certified by a nationally recognized fire suppression certification organization,
- c. Personnel who are registered, licensed and certified by a State or local authority.

System Requirements: All detection and control/release system junction boxes shall be painted red and “J” box covers shall be labeled in bold 1” black decal letters “F/P”.

At system acceptance the Contractor shall provide all relevant manual(s), Technical/Maintenance manual(s), and an accurate map and AutoCAD/DOS compatible file on system component location along with device identification and address. The Contractor shall provide Certificate of completion and provide two (2) copies of the complete system programming disc and sequence of events.

Contractor shall provide a two (2) year warranty on all system components, programming and installation.

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Contractor shall have an in-place support facility with technical staff, spare parts inventory, and all necessary test and diagnostic equipment. Contractor shall provide 2 hour emergency response time.