

SECTION 15335 - FIRE PROTECTION

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. General provisions of the contract and Volume 1 specification sections apply to this section.

1.2 REFERENCES

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the test by the basic designation only.

National Fire Protection Association (NFPA)

NFPA 13	1991	Sprinkler Systems
NFPA 14	1990	Standpipe and Hose Systems
NFPA 20	1990	Centrifugal Fire Pumps
NFPA 22	1987	Water Tanks for Private Fire Protection
NFPA 24	1992	Private Fire Service Mains and Their Appurtenances
NFPA 241	1989	Safeguarding Construction, Alterations and Demolition Operations

1.3 SITE SURVEY

- A. Before submitting bid, bidder shall carefully examine existing field conditions. Design and/or as-built drawings are not available covering the fire protection systems. Submission of bid will be construed as evidence that required examination has been made. Claims for extra labor, equipment and materials required due to existing conditions, which could have been foreseen, will not be recognized.

1.4 QUALIFICATIONS OF CONTRACTOR

- A. Included in the Contractors bid, he shall submit data indicating that the Contractor has successfully completed a demolition project with fire protection program and system of similar complexity and having such required experience.

1.5 DESCRIPTION OF WORK

- A. The dry fire standpipe systems shall be retained in service and maintained in conformity with the progress of the demolition activity in such a manner that the systems are always operational in conformance with the requirements of NFPA Standards 13 and 14.
- B. The site fire distribution grid and the electric 3-Phase 440 Amp. fire pump system shall be maintained in service for as long as practical, and all efforts should be made to keep it in service for the extent the demolition work, in conformance with the requirements of NFPA Standards 20, 22, and 24. No parts of this system shall be taken out of service or shut down without prior approval of the Construction Manager and Owner. The contractor will be responsible to maintain and approved fire prevention system at all times and to keep it in service for the extent of the Demolition.

- C. Contractor shall coordinate his proposed scope of work with the New York City Fire Department, and all other agencies having jurisdiction. NFPA Standard 241 shall be used by the Contractor in the development of his work scope.
- D. No materials, demolition work, or equipment shall interfere with access to site fire hydrants, siamese connections or spare fire extinguishing systems.
- E. Prior to start of demolition work, properly authorized personnel shall seal all control valves in the fire protection system in the open or closed position to correspond to the normal operating mode.
- F. When the fire standpipe systems are being regularly turned off and on to facilitate removal and capping of segments, the control valves shall be checked at the end of each shift to ascertain that the fire protection is in service. Control valves shall be sealed in the open or closed position by properly authorized personnel.
- G. Fire standpipe piping systems shall be removed, extended, and/or revised to maintain the fire protection systems in service at all times during the demolition process.
- H. Fire standpipe risers that come out of service shall be completely removed. Segments underground shall be cut at ground level, slurried full of sand and plugged with concrete. Any piping which is in a basement or crawl space area shall be removed. The holes in slabs and foundation walls shall be plugged.
- I. Provide Type "A" fire extinguisher (or insure their availability) for temporary offices and similar spaces where there is minimal danger of electrical or grease-oil-flammable liquid fires. In other locations provide Type "ABC" dry chemical extinguishers, or a combination of several extinguishers of NFPA recommended types for the exposure in each case.
- J. Contractor shall provide 55 gallon drums of water, and buckets of sand in work areas with no active fire protection systems. The number of drums of water and buckets of sand shall be determined by the size of the unprotected area(s).
- K. Contractor shall assign an employee to each work area in each work shift as fire watch where welding, cutting and other operations involving portable equipment using arc or open flame. The Fire Watch period shall extend to a half hour after the normal work shift, wetting down debris around the burning area. All employees performing fire watch service shall wear a red helmet and shall sign off with Security before leaving the site.

1.6 SUBMITTALS

- A. Prior to start of demolition work, the Contractor shall prepare and submit for approval a fire safety program which shall cover all the work under the demolition contract. The right of the owner to administer and enforce this program shall be established, even though the demolition of the buildings in this contract may be entirely under the jurisdiction of the Contractor.
- B. The New York City Fire Department shall be consulted for guidance in the preparation of the fire safety program.

- C. The fire safety program shall include a detailed technical approach that will be used to maintain the systems in operation, during the demolition process, with a discussion of the equipment, methods and procedures to use. The fire safety program shall conform to existing federal, state and local rules and regulations.
- D. The Contractor shall not proceed with any demolition operations or fire safety program until the fire safety program has been reviewed and approved by LMDC and its agents.

1.7 MATERIALS AND EQUIPMENT

- A. All materials and equipment required to maintain all the fire protection systems in service shall conform to NFPA standard requirements and shall be UL/FM listed.
- B. Provide new or used materials and equipment that are undamaged and in serviceable condition. Provide only materials and equipment that are recognized/listed by UL/FM as suitable for the intended use, by compliance with appropriate standards.
- C. Employ UL listed fire hoses with a pressure rating greater than the maximum pressure of the water distribution system to extend temporary service to remote work areas.

PART 2 – PRODUCTS (Not Applicable)

PART 3 – EXECUTION (Not Applicable)

END OF SECTION 15335