

FIRE PROTECTION SYSTEMS

GENERAL

This narrative provides a brief summary of the proposed fire protection systems. The information contained in this document will be used during the design process.

CODES AND REGULATIONS

The following construction codes and regulations are understood as requirements for this project:

- 2020 Edition of the Building Code of New York State.
- 2020 Edition of the Energy Conservation Code of New York State.
- 2020 Plumbing Code of New York State.
- 2020 NYS Energy Conservation Code.
- National Fire Protection Association (NFPA), including NFPA 101, and NFPA 90A.
- The 2017 edition of the National Electrical Code.
- The 2016 edition of NFPA 72 National Fire Alarm Code.
- ICC/ANSI A117.1: Accessible and Usable Buildings and Facilities

PRIMARY DESIGN ASSUMPTIONS

FIRE SERVICE

1. New 6" Fire service main shall enter the lower level. Fire protection contractor shall extend fire main from pipe terminated 5'-0" from building foundation wall by site contractor. Fire service shall be equipped with an OS&Y gate valve with tamper switch, 6" double check detector assembly, tap for 4" pipe for fire department connection and wet system alarm valve. To serve the building.
2. Fire flow from OCWA, of Burdick street fire hydrant 13103, 75 psi static, 49 psi residual at 1340 gpm, at 20 psi flowing 2,008 gpm. sprinkler calculation was using the building is 30'-0" high and is two stories.
3. Wet system alarm valve and flow switch shall serve the building; Sprinkler system shall be designed to Light Hazard with density of .10 over 1200 sq.ft.. mechanical rooms, storage rooms, outdoor parking spaces and electrical rooms shall be designed to Ordinary Hazard Group 1 with density of .15 over 1500 sq.ft.
4. Provide quick response concealed pendant and sidewall sprinkler heads through building were applicable. Provide quick response up-right sprinkler heads within spaces without ceiling with. Mechanical rooms and electrical rooms shall have cages provided on upright heads.
5. The fire department connection for this building shall be a wall mounted Storz fire department connection. Threads should be coordinated with the local fire department.
6. Sprinkler contractor shall provide hydraulic calculations for sprinkler system.
7. Sprinkler piping above ground shall be schedule 40 Victaulic pipe 2-1/2" and smaller with threaded connections. Thin wall black steel 2-1/2" and larger with rolled grooved mechanical type couplings.

8. All tamper and flow switches shall be coordinated with the fire alarm system.