



VILLAGE OF ALGONQUIN

COMMUNITY DEVELOPMENT

2200 Harnish Drive

Algonquin, IL 60102

Phone (847) 658-2700 (option 3) Fax (847)658-2631

FIRE SPRINKLER PLAN REVIEW SUBMITTAL REQUIREMENTS

In order to perform a thorough fire sprinkler system plan review, a minimum of two copies of the following specifications, drawings and details shall be submitted to the Village along with a completed Village permit application:

- ❑ Complete signed and wet-sealed plans, hydraulic calculations, catalog cut sheets and specifications for the fire sprinkler system and related equipment. Plans shall show job name and address plus complete contractor information including contact/designer name and sprinkler contractors' state license number.
- ❑ Details and plans shall be drawn to scale with sufficient clarity, details and dimensions to show the nature and extent of the work proposed including a detailed scope of work.
- ❑ Each building in a multi-building development shall be a completely separate submittal and permit.
- ❑ Multi-tenant shell building systems shall be clearly noted on the plans.
- ❑ Each tenant space revision shall be a completely separate submittal and permit.
- ❑ Description and locations of all rooms and uses within the building.
- ❑ Occupancy and commodity descriptions and storage arrangements including special applications. Detailed information including code sections shall be provided when deviating from code requirements.
- ❑ Design shall be in accordance with the 2018 NFPA 13 as referenced by the 2018 International Building Code with Village amendments (see Municipal Code Chapter 23.05) and the 2018 International Fire Code with Village amendments (see Municipal Code Chapter 23.07).
- ❑ Design calculations, sprinkler summary sheet and water supply graphs indicating the discharge requirements of each system, and evaluation of the arrangement and source of the water supply.
- ❑ Complete results of a current flow test (dated within 12 months) indicating the location and date of the test and the names of the personnel involved in conducting the test. Test shall be witnessed by the appropriate fire district and Algonquin Public Works. Results shall be submitted on a form approved by the Village.
- ❑ Site plan drawn to scale showing underground main and feeder details, location of tap into main, and location of flow test hydrants. Static and flow hydrants shall be properly labeled.
- ❑ Complete hydraulic calculations including water supply curve. The backflow preventer friction loss shall be included in the calculations.
- ❑ Available water supply shall exceed the system demand by 10 p.s.i. minimum.
- ❑ Working shop drawings indicating all pipe sizes and the spacing between branch lines and sprinklers on the branch line. All hydraulic calculation reference points or nodes shall be shown and labeled.
- ❑ Material and equipment specifications and catalog cut sheets, with the appropriate item(s) highlighted. All materials used shall be verified that they are installed in accordance with their listing.
- ❑ Ceiling information including heights, construction, slope, soffits, clouds, etc. shall be shown including sections.
- ❑ A backflow preventer with detector assembly is required in accordance with Illinois Plumbing Code 890.1130(d)(2) or (3). The bypass line shall be equipped with a RPZ. The bypass water meter shall read in gallons.
- ❑ The Village of Algonquin is protected by three different fire protection districts depending on project location. It is recommended that the applicant contact the appropriate fire district to determine special requirements of that district before design and submittal. Call the Village to verify.
- ❑ Algonquin-LITH FPD: 847-658-8233 ■ Carpentersville FD: 847-426-2914 ■ Huntley FPD: 847-669-8284
- ❑ DO NOT SUBMIT PLANS DIRECTLY TO THE FIRE DISTRICT UNLESS INSTRUCTED TO DO SO BY THE VILLAGE.