

## Residential

### Starbuck Island

Green Island, NY  
Size: 490,685 sq-ft

Buildings 1-4 are 100,000 sq-ft apartment buildings that had fire alarm and other fire suppression services performed. Building 5 is a 36,000 sq-ft 2 floor commercial building that had fire alarm and other fire suppression services performed.



### Clarkson Riverside Apartments

Potsdam, NY

RAN was retained to design a sprinkler system for the Clarkson Riverside Apartments. Services included the design of a sprinkler system and construction administration. RAN also notified the client that if the architects make changes to the building, installation can change.

### Steuben Place Apartments

Albany, NY  
Construction Cost: \$135,000 Size: 56,000 sq-ft

RAN Fire Protection Engineering provided consulting engineering services for the renovations to the apartments at 40 Steuben Street. RAN performed a code analysis for the installation requirements of an automatic sprinkler system and standpipe system. RAN provided construction administration support and processed automatic sprinkler system and standpipe system shop drawings and submittals.



### Expert Witness- Highland Woods

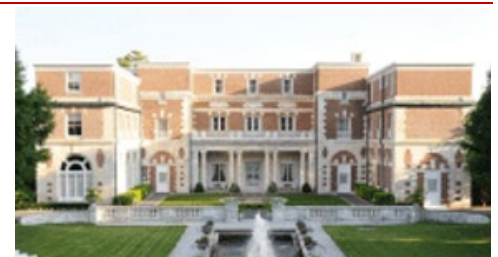
Williamstown, MA

RAN Fire Protection Engineering was retained for fire protection engineering consulting services for a forensic analysis project. All opinions and reports that were rendered by RAN personnel was based on facts and data made available for review in addition to their experience and professional analysis. Because of the unpredictability of fire, every effort was made to minimize and contain this uncertainty to an acceptable range based on engineering judgement.

### Canyon Ranch Condominiums

Lenox, MA  
Construction Cost: \$15.5 million Size: 108,000 sq-ft

RAN Fire Protection Engineering was retained to provide a fire protection design that includes a sprinkler system layout, a layout for the manual wet standpipe system, and a fire alarm system design. This was a complicated and detailed design process that needed the systems to blend into the building's characteristics. The fire protection and fire alarm designs complied with NFPA regulations and Massachusetts State Building code 780 CMR.



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### Arsenal Street Apartments

Watertown, NY

Construction Cost: \$65,000 Size: 22,000 sq-ft

The Arsenal Street Apartments wanted to perform renovations on their building. RAN Fire Protection Engineering provided consulting services and developed construction documents. The scope of design services included the design of a NFPA-13R compliant sprinkler system.

### Multi-Family Home

New York, NY

RAN was retained to perform their peer review services to a required NFPA 13D sprinkler. The sprinkler was being installed in a 1-family 4-story townhouse and a 2-family 3-story building. RAN performed the review and provided feedback and suggestions.



### 220 Margaret St Plattsburgh

Plattsburgh, NY

RAN Fire Protection Engineering scope of the fire protection engineering consulting services was to provide expert witness services to investigate the fire that resulted in the two casualties. RAN made all reasonable efforts to incorporate practical and advanced fire protection concepts in our consults and other professional work. Opinions and reports rendered by RAN personnel are based on facts and data made available for review in addition to our experience and professional analysis. Because of the unpredictability of fire,

some degree of uncertainty is present in all design and analysis work. Every effort is made to minimize and contain this uncertainty to an acceptable range based on engineering judgment.

### Schuyler Falls

Schuyler Falls, NY

Construction Cost: \$2,666,600 Size: 4,420 sq-ft

RAN was retained to perform consulting services for Schuyler Falls. RAN discovered a few concerns with the sprinkler system design. A few of the concerns included the currently designed sprinkler system did not include hose stream allowances, the light and ordinary hazard areas, etc. RAN helped identify and solve these concerns.



### The Vista at Christian Health

Wyckoff, NJ

RAN Fire Protection Engineering was retained for the design of the standpipe and sprinkler systems for this new construction, along with the parking garages. RAN indicated a dry pipe sprinkler system was required for the parking garage area, and wet pipe for all other rooms, such as apartments, common rooms, etc.

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### Center for Disability Services

Altamont, NY

RAN Fire Protection Engineering provided engineering design services of a sprinkler and fire alarm system for the 2-story Center of Disability Services building at 142 Main Street in Altamont, NY. The State mandated the building to be updated, as well as increase the amount of fire protection in the building. This included sprinkler and piping locations and an automatic and manual fire alarm device initiation layout in compliance with NFPA 72. Additional services

included the coordination of a fire hydrant flow test to be used for the design basis of the fire sprinkler system.



### Bradford Home Ammo Manufacturing

Bradford, NY

RAN Fire Protection Engineering was retained for fire protection engineering consulting services for the proposed ammunition manufacturing in a residential building located in Bradford, NH. All opinions and reports that were rendered by RAN personnel was based on facts and data made available for review in addition to their experience and professional analysis. Because of the unpredictability of fire, every effort

was made to minimize and contain this uncertainty to an acceptable range based on engineering judgement.

### Transitional Living Services Rensselaer

Ogdensburg, NY

Size: 10,900 sq-ft

RAN Fire Protection Engineering proposed to complete fire protection engineered construction plans and consulting services for the Transitional Living Services project. The scope of design services includes automatic sprinkler system design in accordance with NFPA-13.



### Woodlawn Assisted Living

Saratoga Springs, NY

RAN Fire Protection Engineering provided fire protection engineering consulting services to the Woodlawn Commons in Saratoga Springs, NY. The scope of consultation services included performing a code analysis to determine the level of sprinkler protection required in each building, site visits to document the existing building construction features, development of design criteria, and the review of existing systems. RAN provided additional services as needed.

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### Great Barrington Condominiums

Great Barrington, MA

RAN provided fire protection engineering design services for Scheme 1 of the Great Barrington. RAN's basic services were divided into three phases "Schematic Design", "Construction Documents" and "Construction Administration Services". The scope of services throughout the duration of the project included fire protection design, fire alarm design, classification of hazard areas, sprinkler, and piping location in compliance with NFPA 13, hydraulic calculations, response to Bidders' questions, review of contractors bid packages, submittals, and shop drawings. Both design drawings contain all the necessary information and planning, to ensure they were in compliance with the codes and regulations.



### Timberlyn Heights

Great Barrington, MA

Size: 6,000 sq-ft

RAN provided fire protection engineering consulting services to the facility. The scope of services included a site visit to observe the existing field conditions and sprinkler system, and the development of Fire Protection designs to provide sprinkler protection in the second-floor dementia unit. The drawings include hazard classifications, sprinkler, and piping locations in accordance with NFPA 13, and hydraulic calculations in accordance with NFPA 13.

### Lake George Cabin

Lake George, NY

RAN Fire Protection Engineering provided forensics consulting in Lake George, NY. RAN investigated a water damage claim and gathered information. RAN observed the failure of a Toilet Water Supply Connector. The coupling nut had worn and broke. The result of the failure was water damage to the second-floor bathroom and hallway hardwood floors and damage throughout the basement and garage.



### Brooke Pointe at Valley Stream

Valley Stream, NY

RAN Fire Protection Engineering provided fire protection engineering consulting services for the Brooke Pointe at Valley Stream project located at 100 Gibson Boulevard, Valley Stream, NY. The scope of services included a site visit to provide field observations of the construction, code analysis to establish minimum design basis and code compliance of installed fire sprinkler and standpipe systems, review of all submittals for compliance with design intent, review of internal and external standards for designs of new fire sprinkler and standpipe systems, hydraulic calculations of existing system, and evaluation services to indicate the status of the existing fire protection systems. RAN also assisted with securing a certificate of occupancy.