

Folts Home

Herkimer, New York

Size: 181,400 sq-ft

A code analysis was conducted to the existing Fire Protection system in the Folts Home. The Folts Home was an existing nursing home. A full report was written, construction documents, and construction administration services were provided.



New York State NURSES ASSOCIATION

NYS Nurses Association

Albany, NY

Construction Cost: \$81,000 Size: 32,000 sq-ft

The NYS Nurses Association is one of the strongest nurse's union of 42,000 frontline nurses that are united together to help better healthcare and work for all nurses in the state of New York. RAN Fire Protection Engineering performed consulting services for support of the tenant fit out of the NYS Nurses Association area located at 155 Washington Avenue. RAN's

engineers provided fire protection engineering support for bid services for best value analysis, performed code research for the required fire protection system installation based on the proposed construction and the architect's alterations classification, and provided a memo outlining the required level of fire protection for the building.

Rochester General Hospital

Rochester, NY

RAN Fire Protection Engineering's president provided code consulting and development of design criteria for the smoke management system of the atrium.

The scope of services provided include:

- Code research to address general building requirements.
- Code analysis for basis of design criteria.
- Meetings with design team to discuss approach and identify potential cost saving options.
- Performance of preliminary smoke management calculations
- Identification feasible design concepts
- General oversight of the systems that will require coordination (such as HVAC, Architectural, etc...) with the smoke management system



It was discovered early within the design phase that the application of the prescriptive building code requirements would result in a "windtunnel" condition within the atrium. The prescriptive building code requirements would also result in the expensive installation of equipment that would not meet the intent of the code. A report was generated which outlined the preliminary code analysis, criteria for the design fire, and exhaust rate. The report summarized the basic design criteria for the smoke management system which was used to evaluate system design options. The final design incorporated application performance-based criteria for the smoke management system specific to the building conditions. It resulted in a 50% cost savings and a functional smoke.



Samaritan Medical Center

Watertown, NY

Construction Cost: \$85,000 Size: 81,000 sq-ft

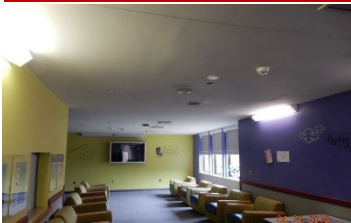
RAN Fire Protection Engineering was retained to provide consulting services. RAN provided evaluation services to indicate the status of the existing fire pump and to investigate possible issues associated with the fire pump's performance and water supply. RAN also evaluated the existing storage arrangement and identified alternative storage configurations that may lower water demand. A design for the replacement of the fire pump to meet the new storage arrangement was performed.

Saratoga Medical Center

Saratoga Springs, NY

Construction Cost: \$56,000 Size: 12,800 sq-ft

The two-story medical office building needed the building systems to be designed for future tenant fit-out connections. RAN Fire Protection Engineering provided HVAC, plumbing, fire protection, and electrical engineering design drawings on this project. These fire protection engineering drawings included a fire sprinkler system design that included the sprinkler layout and water service entrance for the base of the building.



St. Lawrence Psychiatric Center

Ogdensburg, NY

Size: 4,444 sq-ft

RAN engineering was responsible for providing safety panels at the Children and Youth Building 202 for the Office of Mental Health in St. Lawrence Psychiatric Center. This project seeks to install solid panels within the cased opening to prevent accidental injury to children. Code analysis was performed on the existing sprinkler system, standpipe system, fire alarm, and fire detection within the building and a formal report was written where suggestions were made.

UHS Vestal Medical Office Building

Vestal, NY

Cost: \$138,000 Size: 84,000 sq-ft

Professional services for the UHS Vestal Medical Office Building included Mechanical, Electrical, Fire Protection and Plumbing Design. RAN performed fire protection engineering consulting services for the hydraulic design of a sprinkler/standpipe system at the UHS Vestal Medical Office Building.



Syracuse VA Medical Center

Syracuse, NY

Construction Cost: \$672,000 Size: 280,000 sq-ft

RAN Fire Protection Engineering was retained to conduct a code analysis on the Syracuse VA Medical Center parking garage. As a result, RAN designed an Automatic Dry Sprinkler System, Auxiliary Supply for Automatic Dry Sprinkler System, and a Manual Dry Standpipe System for the garage.

Roswell Park Cancer Center *Buffalo, NY*

RAN provided fire protection engineering services to the Roswell Park Cancer Center. RAN performed the preliminary assessment and feasibility and code study for the consolidation of building stationary fire pump systems at the north and south campus. The goals of this project were to reduce the number of fire pumps and provide the interconnection of various buildings to potentially increase fire water supply reliability.



Vassar Brothers Medical Center Expansion *Poughkeepsie, NY*

Vassar Brothers Medical Center (VBMC) is a 350-bed acute care hospital that offers medical, surgical, and 24-hour emergency care to their patients. RAN Fire Protection Engineering performed fire protection engineering consulting services for the review and construction support of the sprinkler system design at Vassar Brothers Medical Center Expansion. A water storage tank was advised and sized for the water demands of the building.

UHS Vestal Medical Office Building *Vestal, NY* *Cost: \$138,000 Size: 84,000 sq-ft*

Professional services for the UHS Vestal Medical Office Building included Mechanical, Electrical, Fire Protection and Plumbing Design. RAN performed fire protection engineering consulting services for the hydraulic design of a sprinkler/standpipe system at the UHS Vestal Medical Office Building.



SMC Women's Health Center *Watertown, NY* *Size: 28,500 square foot modifications and addition*

The Samaritan Women's Health Center was specifically designed to help women with healthcare. RAN Fire Protection Engineering was retained to perform consulting and design services for the design of fire sprinklers for the additions to the Samaritan Women's Health Center. The sprinkler system design included a classification of hazard to establish design criteria, sprinkler piping and sprinkler layout, and hydraulic calculations.

Countryside *Delhi, NY* *Cost: \$620,000 Size: 82,497 sq-ft*

Code analysis was performed to identify the needed fire protection services. All available design and as-built documentation was examined. Upon completion of analysis, a narrative describing the needed fire sprinkler upgrades and alterations to follow the code was created.





Hudson Valley Orthopedics Center
Hudson, NY

Provided consulting and Code review services for this design/build project, which included two Class C operating rooms, recovery area, anesthesia area and required ancillary spaces. The project required New York State Department of Health certification for Outpatient Surgical Facilities. Medical gas systems, a medical gas storage area, and a hazardous medical waste storage area were part of the design.

Albany Memorial Hospital Medical Office Building
Albany, NY

Albany Memorial Hospital is a community hospital located in Albany, NY, that has 165 beds for patients. Albany Memorial is one of the leading health care systems in upstate New York and is a crucial part of the St. Peter's Health Partners. RAN Fire Protection Engineering has performed an equivalency evaluation of the fire resistance rating requirements for the exit enclosures for the Albany Memorial Hospital MOB project per NFPA 101.



Hearth at Glastonbury
Glastonbury, CT

RAN Fire Protection Engineering provided fire sprinkler protection designs for the three-story assisted living center the Hearth at Glastonbury. The sprinkler system design covered the facility and met the requirements and codes that were necessary for the fire protection system within the building.

Herkimer Nursing Home
Herkimer, NY

RAN established the design criteria for the developed working drawings of the fire protection system of Valley Health Services, Inc. The property presently has partial sprinkler coverage in select areas of the building which will not be modified, additional fire protection systems were designed throughout the building and in the elevator machine rooms are equipped with sprinklers.



Pines Glens Falls
Glens Falls, NY
Size: 45,000 sq-ft four-story building

RAN Fire Protection Engineering performed fire protection engineering consulting services for the design of a sprinkler system at Glens Falls Crossing nursing home. Services included design criteria to develop working drawings, review of working drawings and submittals, and arbitration with Authorities Having Jurisdiction.

Vassar Medical Center Helipads

Poughkeepsie, NY

RAN performed services for the design of a foam fire-extinguishing system and fire alarm system for Vassar Medical Center Helipads. Hydraulic calculations were performed for the Heliport Foam System.



Vassar Loading Dock Temp CoO

Poughkeepsie, NY

RAN Fire Protection Engineering was retained to provide field observations and documentation of existing fire protection systems for the Temp Loading Dock at the Health Quest at Vassar Brothers Medical Center in Poughkeepsie, NY.

Hydraulic calculations were performed in accordance with NFPA 13, as well as drawings and specifications for installation and modifications as needed to address construction field issues. A report was written to summarize RAN's conclusions and recommendations of improvement.

Sycamore

Fort Wayne, Indiana

RAN performed fire protection engineering consulting services for the design of a sprinkler system of Hearth at Sycamore Village. The first-floor renovation had an existing sprinkler system that was retrofitted to comply with the code. Additionally, hydraulic calculations were performed according to NFPA 13.



Union Street Medical Office Bldg

Albany, NY

Size: 37,821 sq-ft

RAN Fire Protection Engineering was retained to provide review and analysis of fire protection drawings. Additionally, RAN reviewed the working drawings to verify agreement with the design intent and stamp them in compliance with SED regulations for design delegation. RAN also performed construction observations and attests that the sprinkler system has been installed in accordance with the New York State Building and Fire Codes and NFPA-13.

VA Castle Point Water Connection

Castle Point, NY

Size: 48 Buildings

RAN Fire Protection Engineering was contracted along with Patriot Design & Consulting to complete an analysis of this facility. RAN engineers evaluated the volume of water that would be required for the fire suppression systems in all of the buildings on this campus. After the analysis, it was determined that the existing supply had enough water to support the needed fire flow in these buildings. As a result, the installation of water tanks was not required.

