

Clarkson University, Clarkson Hall Potsdam, NY

Clarkson Hall is a health and science building located on Clarkson University's downtown campus. RAN Fire Protection Engineering performed fire protection engineering services for the approximate 56,000 square foot renovations to Clarkson Hall. The scope of services included sprinkler and standpipe design for the expansion of the existing basement sprinkler system to the first, second and third floors. The design overcame the challenges of integrating a sprinkler system into an existing building through extensive coordination with existing building systems and features to reduce disturbance within the building during construction.



The College of Saint Rose Albany, NY

RAN Fire Protection Engineering provided the design of a proprietary supervising station with a remote annunciating station capability. A new wireless communication network for notification was designed. The design to the supervising station-maintained capabilities of future upgrading. The Long-Term service that was provided by RAN included the development of Saint Rose's Campus wide fire alarm master plan.

Cornell University Ithaca, NY

The president of RAN Fire Protection Engineering was involved in the scope of this project which was broader than just mechanical, fire protection, and electrical matters. Much background research was involved to investigate the universities fire protection goals. The current fire protection loop on campus was documented and evaluated, suggestions for improvement were made.



Jefferson Community College, SUNY

Watertown, NY

Construction Cost: \$315,000 Size: 98,000 sq-ft

RAN Fire Protection Engineering developed a cost-effective sprinkler and standpipe design for a new 4-story dormitory building at Jefferson Community College. The design included the implementation of state-of-the-art sprinklers which eliminated the need for a fire pump, leading to significant savings for the client. The new dormitory building safely provides residence to 294 students.

University at Albany, SUNY

Albany, NY

Construction Cost: \$600,000 Size: 122,000 sq-ft

RAN designed intricate standpipe and sprinkler systems for the renovation and expansion of the campus center which considered the historical elements of the existing building. RAN's design also overcame the challenges presented by an insufficient water supply via the use of a fire pump.



SUNY Binghamton

Binghamton, NY

Construction Cost: \$105,000 Size: 22,000 sq-ft

RAN Fire Protection Engineering designed a sprinkler system that encompassed not only an elaborate ceiling design, but also the complex mechanical and electrical systems. Coordination was accomplished using Revit 3-D modelling. Additionally, the sprinklers and piping were designed to blend into the background, so as not to take away from its architectural magnificence.

State University of New York at Delhi

Delhi, NY

Construction Cost: \$146,500 Size: 30 Buildings

RAN Fire Protection Engineering designed a campus fire alarm supervising station and radio transceiver infrastructure to integrate with the existing network of campus fire alarm panels that spans over 30 buildings. This system allows campus police to monitor fire alarm signals from all buildings on campus using a wireless network. This reliable system allows campus police to respond quickly to fires with knowledge of the location and type of fire alarm signal.



Williams College Hewat House

Williamstown, MA

RAN was retained to perform fire protection consulting services to the Hewat House. RAN ensured code compliance for the building and the layout of heads for the fully sprinklered building.

Rensselaer Polytechnic Institute

Troy, NY

Rensselaer Polytechnic Institute is a private research university in Troy, NY. RAN Fire Protection Engineering provided fire protection engineering services for the Modulator Room and Service Room for RPI's new linear accelerator. RAN designed a clean agent system, as well as a detection system for the Modulator Room. RAN also designed a wet piper sprinkler system for the Service room, which houses lots of low voltage power supplies.





Seward Place, Union College *Schenectady, NY*

RAN Fire Protection Engineering provided fire protection services to 313 Seward Place at Union College in Schenectady, NY. RAN performed construction observations and declared that the sprinkler systems used were installed properly, and in accordance with the New York State Building and Fire Codes and NFPA-13R. The design intent of all

working drawings was also checked by RAN for constructability, accuracy, and for conformity to applicable laws, codes, and regulations.

Saint Rose, Madison Avenue *Albany, NY*

RAN was retained to provide Fire Protection Engineering consulting services to one of the many apartments located on Madison Avenue in Albany, NY. RAN reviewed drawings, in order to verify that the system was up to code and meet all the requirements. RAN also made suggestions as needed, to those drawings. They also evaluated the existing fire protection systems, to verify their condition.



Vassar College Library Fire Suppression System *Poughkeepsie, NY*

RAN provided fire protection engineering consulting services to Vassar College Library located in Poughkeepsie, NY. The scope of services included a facility walkthrough to observe existing building structures, fire protection systems, fire hydrants, and fire department operations, evaluation of potential fire suppression

system options to avoid water damage to historic documents and provide a memo and assistance with arbitration with the Code Enforcement Officials and Insurance Company to identify any concerns.

Williams College Children's Center *Williamstown, MA*

The Williams College Children's center serves the children of college and community families. RAN Fire Protection Engineering provided the review and analysis of fire protection drawings, as well as make suggestions and provide feedback as necessary. Additionally, RAN reviewed the working drawings to verify agreement with the design intent and stamp them in compliance with SED regulations for design delegation.



MCLA Campus Center Reconfiguration Study *North Adams, MA*

RAN Fire Protection Engineering provided fire protection services to MCLA Campus Center in North Adams, MA. The scope of services included fire protection design drawings, hydraulic calculations, sprinkler, and piping location in compliance with NFPA 13, review of codes and requirements, and review of plans.