



Systems & Engineering, PC

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PROJECT EXPERIENCE – Municipal

New Swormville Fire Hall, Swormville, NY

S&E provided structural design drawings for a new fire hall for the Swormville Fire Company. The building included structural steel, wood framing, masonry bearing walls, a mezzanine level, concrete flatwork, and foundation design.



Design of the Cornerstone Manor in Buffalo, NY



S&E was responsible for the structural engineering for a new 3 story multi use building with a full basement at Michigan and East North Street in Buffalo. The building encloses a courtyard and was constructed using pre-engineered roof trusses, precast concrete slab floors and cast in place concrete floors on composite metal floor deck, structural steel and load bearing block

frame, block infill walls, reinforced concrete basement and foundation walls, a concrete slab on grade basement floor slab, and conventional reinforced concrete spread footings.

Buffalo Niagara Medical Campus, Buffalo, NY

Systems & Engineering provided metal stud framing design for several structures on this new medical campus in downtown Buffalo. In addition, we have provided structural steel framing classification for fire protection.



Structural Design
(Industrial & Commercial)

Highway & Bridge Design

Construction Inspection

Member of:



Engineering the Future

Design of the NYS Veterans Nursing Home, Oxford, NY



S&E was responsible for the structural design of a new 200,000 s.f. nursing home structure for NYSOGS. This building is a two story structure with a central core, 3 wings, and a partial basement. It has a structural steel framing system, traditional spread footings, composite concrete floor deck, and metal stud truss roof. Other design elements included the design of retaining walls, metal stud framing, and several rigid frames.

Inspection of Existing Parking Structure. Delaware Ave, Buffalo, NY

S&E identified areas of deficient concrete slabs and columns for a three level parking structure and office building. On site inspection of exposed structure and design of repair is ongoing.

'Little Italy' Signs for Downtown Niagara Falls, NY

S&E performed a structural analysis and provided sizing requirements for the new decorative 'Little Italy' sign structures installed in Niagara Falls.



New Newton-Abbot Fire Hall, Hamburg, NY

S&E provided structural design drawings for a new two story fire hall with an approximate footprint of 7,000 square feet. The building was constructed using steel roof deck, steel roof joists, structural steel beams and columns, load bearing masonry walls, a concrete second floor slab on composite steel floor deck, a concrete slab on grade ground floor, reinforced concrete foundation walls and conventional reinforced concrete spread footings.

Buffalo Public Safety Building, Buffalo, NY



Systems & Engineering provided metal stud framing design and inspection services for the new Public Safety Building in downtown Buffalo. This structure houses emergency services including 911 and police resources, and involved special requirements due to the related importance factors.

Chautauqua County Home

S&E is responsible for the design of the light gage cold-formed steel framing for additions and renovations to the Chautauqua County Home.