



Building Structural Engineering

Stahl Sheaffer's Building Structures Group is experienced in the design of new construction, additions, and renovated spaces serving a broad spectrum of building uses and construction types including a full realm of structural materials. Project sizes range from support of new mechanical equipment or creation of openings for new shafts to multi-million-dollar, free-standing buildings. In addition to traditional structural consulting for design, our staff is skilled in structural assessments for buildings, including maintenance planning and development of construction documents for rehabilitation projects. Stahl Sheaffer commonly provides structural analysis and design for building-related elements such as access platforms and fall protection appurtenances, support towers for equipment and piping, underground tunnel and vault design, and anchor design for mechanical systems and equipment. We leverage technology as needed through our advanced use of three-dimensional analytical modeling and implementation of 3D laser scanning and detailed use of Revit on every project to create construction document packages from a three-dimensional model.

We pride ourselves on being an integral member of the design team from project inception through the completion of construction, using our depth and breadth of experiences to contribute to the design through innovative thinking and non-standard solutions resulting in economical, coordinated, and constructible project designs and documents. Our building structures group is founded on the principal of timely, concise, and accurate communication with our clients. Most importantly, each member of our group is cognizant that project success hinges on listening to and learning from each member of the team including the architect, building owner, fellow engineers, contractors, fabricators, specialty engineers, and product representatives.

Stahl Sheaffer's structural engineering department includes a staff of professional engineers and designers dedicated to building structures who provide expertise in:

- Feasibility and planning studies
- Design of new facilities
- Retrofit of existing components
- Rehabilitation design
- Construction shoring
- Construction administration & inspection
- Analysis of structural capacities
- Forensic investigation
- Historic preservation
- Design of new facilities
- BIM / 3D modeling
- Compliance upgrades
- Façade restoration
- Roof repair

