

Structural Engineering Services



For more information on Sewall's structural solutions, please contact R. James Mahoney, PE, LEED® AP, at 800 648 4202; Email: jmahoney@sewall.com



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THE CHALLENGE

As the costs of building construction and renovation rise, our clients in government and industry, education and public health are increasingly challenged to find innovative, cost-efficient ways to build new structures and to modify existing structures for new uses. Structural components must not only conform to building codes, but also complement the building's architectural design and make effective use of building materials, all within limited budgets and tight timeframes.

In new construction, flexible design early in the project is critical. With the use of buildings changing faster than ever before, a facility built for one occupancy may in a few years change to another or multiple occupancies. The challenge is to design for functionality and sustainability over the long term, meeting current project budget and schedule.

Renovating or updating an existing building brings its own set of challenges. What is the physical condition of the building? Has it deteriorated? Does it meet current code loading requirements? Can it support additional weight from a new occupancy or equipment? Can it be modified? How much will modifications cost?

STRUCTURAL SOLUTIONS

Sewall's Structural Team assists clients in understanding and selecting the most cost-efficient structural framing system that best integrates with the architectural design, the mechanical systems, the building location, and end use. Our engineers, several of whom are LEED® accredited professionals, have the practical experience, technical knowledge and software tools to assess, design and renovate buildings and building elements of all types. Our staff are prepared to:

- ❑ Analyze & design the structural components of fire stations & municipal buildings; educational medical & military facilities; retail/commercial developments & industrial buildings
- ❑ Design industrial equipment foundations & historic building renovations; assess building reuse & design construction shoring
- ❑ Conduct structural assessments of existing building elements-- roof & floor framing, support columns, bearing walls, foundations, roofing & facades
- ❑ Design upgrades for any building type & construction materials (steel, concrete, wood, masonry); conduct forensic analysis
- ❑ Develop construction drawings, specifications & cost estimates



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