

Structural Building Engineering

Evaluations, Design, and Construction

The structural design for a building must ensure that the building fulfills its functional requirements and is structurally safe given all the elements that it will be exposed to. It must respect the architectural vision for the project, accommodate all of the building services, and ensure that the design is constructible.

Marble Valley Engineering, PC specializes in the design, construction, repair, conversion, and conservation of buildings for commercial, institutional, and industrial clients. We understand that the complexity of modern and historic structures often requires a great deal of creativity from the engineer to ensure the structures support and resist the loads they are subjected to. We have experience working with the following structural systems: structural steel; light gauge steel; reinforced concrete; precast, prestressed concrete; aluminum; masonry; timber and conventional wood framing.

"Thanks for all you folks have done to help move our project forward. The progress we are making would be impossible without you and others like you giving your time, energy, and skills to help make Rutland's future brighter."

Vermont Farmer's Market, February 2014

Our services include:

- Feasibility Studies
- Evaluation of Existing Buildings
- Designs for New Buildings
- Designs for Modifications and Additions to Existing Buildings
- Construction-related services: project management and coordination, resident project representation, and contract administration

We have specialized expertise in evaluating the structural integrity and reuse potential of historic buildings. Our training in historic building technologies enables us to adaptively reuse existing materials, often times resulting in significant project cost savings.

Our staff utilizes state of the art design and analysis software which enables exploration into engineering solutions rapidly and accurately. We take a hands-on approach to translate your needs and concepts into the reality of detailed construction plans that are 100% compatible with AutoCAD and coordinated carefully with architectural, mechanical, electrical and plumbing documents.

Structural design for a 4-storey, 900 sq ft addition to a historic masonry building in a densely developed downtown center. The addition features structural steel framing, a concrete metal pan floor system, and concrete raft foundation.



**CASTLETON ARTS INSTITUTE AT
THE PARAMOUNT THEATRE**



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