



CONSULTING STRUCTURAL ENGINEER, INC.

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ALEXANDER J. BERRY, EIT

A Project Manager with over eight years of experience in providing detailed structural engineering analysis and innovative design solutions. Under the supervision of a registered design professional, Mr. Berry is directly involved in all aspects of the design process from client interaction, existing structure investigation, design development, preparation of construction documents and evaluation reports through construction administration services. Mr. Berry consistently approaches each project with an open mind and a focus on creative and thoughtful solutions. Mr. Berry is skilled and experienced in a range of building design projects including residential, commercial/retail, mixed use and industrial facilities as well as additions, complex renovations and re-use projects for existing structures. Mr. Berry is an asset to the design team and expertly collaborates with all disciplines involved to efficiently meet project needs and expectations while maintaining effective, on-going communications.

EDUCATION:

Bachelor of Science, Civil Engineering, University of Massachusetts, Amherst, MA

PROFESSIONAL QUALIFICATIONS AND AFFILIATIONS:

Engineer in Training: Massachusetts

Structural Engineers Association of Massachusetts (SEAMass)

REPRESENTATIVE PROJECT EXPERIENCE:

Boston Honey Company | 56 Chestnut St, Holliston, MA

A commercial retail/production/warehouse building approximately 5,500 gross square feet (GSF) for a local agricultural business. Mr. Berry served as the lead engineer on the project to facilitate the structural design and construction administration. The building utilizes conventional wood frame construction with prefabricated roof trusses supported by tall structural insulated panels (SIP) perimeter walls for a high efficiency envelope system.

Homeowner's Rehab Incorporated (HRI) | 171-173 Columbia Street, Cambridge, MA

The project involved an existing wood-framed, triple decker multi-family residential building rehabilitation and full-gut renovation. The project required evaluation of structural damages from a fire to the primary gravity and lateral force resisting systems of the existing building as well as an evaluation of structural alterations in accordance with the International Existing Building Code to ensure compliance. Mr. Berry provided structural services including building condition assessment, evaluation of planned improvements, identification of code imposed structural upgrades and limitations, structural analysis and design of reinforcements for the alterations, preparation of construction documents and construction administration.

St. Mary & Archangel Michael Church Rectory | Chandler Street, Nashua, NH

Mr. Berry provided structural design and construction administration services for interior renovations to the existing wood framed building with exterior masonry walls. The work required evaluation of structural alterations in accordance with the International Existing Building Code (IEBC) to ensure compliance. Structural reinforcements were introduced into the work in order to achieve the desired alterations to interior load bearing elements and to adequately tie-in the exterior masonry walls to meet seismic requirements of the IEBC.

Multi-family Building Renovation and Addition | 34 West Eagle Street, East Boston, MA

The project involved an addition of a third floor over existing roof area and full-gut renovation of the wood-framed, triple decker multi-family residential building. Mr. Berry provided structural services including structural analysis and design of new gravity and lateral force resisting systems for the addition, evaluation of existing structural systems and reinforcements as necessary where required for layout alterations and preparation of construction documents.

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West Falmouth Library | West Falmouth Hwy, West Falmouth, MA

This project involved the construction of 2,100 GSF two story wood frame addition to the existing library, including alterations within the adjacent existing building areas. The addition required excavation into an adjacent slope and consideration of lateral earth pressures on the building foundation as well as site retaining walls. Mr. Berry aided in the development of design and construction documents for this project.

New Multi-family Dwelling | 358 Athens Street, Boston, MA

Construction of a new wood-framed multi-family residential building of approximately 4,700 SF. The building consists of three floors over garage level at grade level. Bracing for the building utilized a combination of steel moment frames and conventional wood shearwalls. Mr. Berry provided structural services including structural analysis and design of gravity and lateral force resisting systems for the building and preparation of construction documents.

Private One- and Two-Family Residences | Multiple Projects, Various Locations

Mr. Berry provides structural engineering services to architects, homeowners and developers for one-family and two-family dwellings. Services include collaboration with the design team, production of structural construction documents and construction oversight. Projects vary from additions/alterations, complete gut renovations, deep energy retrofits and new construction. Mr. Berry is experienced in all types of residential construction and utilizes both prescriptive and engineered systems as necessary to achieve a structural frame that meets the needs of the project.

Office and Warehouse | Shepley Wood Products, Lovers Lane, Nantucket, MA

Mr. Berry assisted with structural design and construction administration services for the new office administration building and warehouse is comprised of 3,300 GSF of single story wood frame construction and 5,100 GSF of pre-engineered metal building (PEMB).

Motor Pool Shed/Mezzanine | Wellesley College, Wellesley, MA

The new shed building consists of 4,200 GSF of single story pre-engineered building by Morton Building and an internal mezzanine of conventional wood frame construction approximately 900 SF. Mr. Berry assisted with the foundation design and the internal mezzanine design as well as overall responsibility for the as-built pre-engineered building construction as part of the construction control services.

FedEx Ground | Whites Path, Dennis, MA

The project consisted of structural engineering analysis/design, construction document preparation and construction administration for a warehouse conversion of approximately 110,000 SF. The project scope included drive-in ramps with retaining walls in place of select loading docks. Structural work was conducted in accordance with the FedEx Ground build to suit specifications manual. Modification to existing structural brace bays was required to facilitate the tenant fit out plan. Mr. Berry evaluated the alterations and designed reinforcements to comply with the requirements of Substantial Structural Alteration (SSA) criteria.

Multi-family Dwelling | Barretts Mill Road, Concord, MA

Mr. Berry provided structural engineering services including analysis/design, construction document preparation and construction administration for additions and alterations to the existing, wood frame structure of approximately 4,500 SF. The project included the conversion of an existing single-family dwelling to two-family dwelling while maintaining the historic front wall and roof visible to the street. The project goals necessitated careful coordination of the structural design with the original timber framed elements within historical portions of the building to remain. Additional considerations included the removal and replacement of all framed floor levels with new floor framing and interior foundations, Mr. Berry successfully detailed the integration of the framing elements in manner that was readily constructable in the field.

Warehouse Renovation & Rehabilitation | Pleasant Street, Lee, MA

The project consisted of a structural investigation of the +/-40,000 GSF existing 2-story warehouse building. Mr. Berry was tasked with considering the impacts of the new agricultural grow program to be implemented within the space. Mr. Berry provided structural engineering services for the investigation and evaluation of the existing structure and design of reinforcements to ensure compliance with the International Existing Building Code.

