

# FORCON INTERNATIONAL

**ROBERT R. CHARTRAND, P.E.**

## **SUMMARY**

Mr. Chartrand offers over 30 years of combined structural engineering and design project management experience in a broad range of commercial, industrial, institutional and residential structures for both new construction and major structural renovations. Construction types include structural steel, concrete, wood and masonry structures. His strengths include developing cost effective structural designs, identifying and developing practical solutions to structural problems, and coordinating structural designs with other disciplines. Other experience includes providing independent structural engineering reviews and performing structural evaluations of existing buildings.

## **EDUCATION**

Bachelor of Science in Civil Engineering - Northeastern University, Boston, MA

## **REGISTRATIONS & CERTIFICATIONS**

Registered Professional Engineer in the following States:

- Connecticut # PEN.0024069
- Maine # PE11102
- Massachusetts # 32109
- Nebraska # E-14290
- New Hampshire # 11206
- New Jersey # 24GE05085300
- New York # 092741
- North Carolina # 038425
- Pennsylvania # PE051966E
- Rhode Island # PE.0008051
- Texas # 108261
- Vermont # 018.0073927
- Virginia # 0402043628

## **PROFESSIONAL ASSOCIATIONS**

American Institute of Steel Construction (AISC)  
American Society of Civil Engineers (ASCE)  
Boston Association of Structural Engineers (BASE)  
National Council of Examiners for Engineering and Surveying (NCEES)  
Structural Engineers Association of Massachusetts (SEAMASS)

## **HIGHLIGHTED REPRESENTATIVE EXPERIENCE**

**Ecotarium Upper Floor Selective Renovation**, Worcester, MA – Structural renovation included a new structural glass floor and structural steel framed balcony cantilevered from the upper floor exhibit space and structural support for a new parabolic soffit in the upper level exhibit space.

**Ecotarium Mechanical Plant Upgrade**, Worcester, MA – Alterations within the existing mechanical plant including structural steel grillage for a new cooling tower on the roof of the existing plant.

**Countryside Veterinary Hospital**, Chelmsford, MA – A two-story steel and wood framed addition to house expanded animal examination and procedure rooms, enlarged reception area, and back-of-house space.

**18-20 Franklin Street**, Worcester, MA – Substantial alterations to the existing four story building previously occupied by the Worcester Telegram and Gazette. Evaluation of the building's various lateral force resisting

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systems and strengthening of the systems in some locations was required due to the change of use and extent of alterations.

**556 Adams Street**, Milton, MA – Conversion of an old theater building into a new upscale restaurant. New windows in exterior masonry walls were installed requiring an evaluation and strengthening of the building's lateral force resisting system.

**30 Braintree Hill Office Park**, Braintree, MA – A new 5 story, 158,000 square foot office building. The building is structural steel framed and contains covered parking beneath the building on the lowest level.

**355 Waverley Oaks Road Medical Office Building**, Waltham, MA – A new three-story 48,000 square foot structural steel framed building with a parking level in the basement.

**76 & 80 Blanchard Road**, Burlington, MA – Major alterations to two existing two story structural steel framed office buildings. The buildings were completely gutted to the structural steel frame. Structural scope included evaluation of the lateral force resisting systems, support for new roof top mechanical equipment, design of new entrance canopies, and reframing of the second floors for new entrance lobbies.

**Citizenship and Immigration Services Building**, Lawrence, MA – A new 37,000 square foot structural steel framed building for the Federal Government. The building included office and public spaces on the first floor and parking in the basement level. The exterior façade and window systems were designed to meet the government standards for blast resistance.

**Citizens Bank Data Center**, Medford, MA – An expansion of the existing data center space on the third floor requiring extensive reinforcing of the floor structure to support the added weight. New structural framing was provided within the mechanical equipment enclosure on the roof for additional cooling towers.

**Worcester Law Library**, Worcester, MA – Structural alterations to convert an historic five story wood framed masonry wall structure into a library use. Strengthening of existing wood framed structure was required to accommodate the library floor load requirements.