



HALLIWELL

DONALD LEFFERT, PE

DIRECTOR, CIVIL/STRUCTURAL ENGINEERING SERVICES

PROVIDENCE, RI

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SPECIALTIES

- Structural Analysis and Design
- Structural Forensic Investigations
- Construction Defect Investigations
- Building Envelope Investigations, Analyses and Recommendations
- Preparation of Cause and Origin Damage Assessments
- Storm Surge/Flood Inundation Analysis
- Windstorm/Storm Surge Damage
- Expert Geotechnical Investigations
- Structural Investigations and Analyses
- Structural Building Systems – Steel/Reinforced, Post-Tension/Prestress Concrete/Masonry/Timber
- Remedial Design and Reconstruction Scope Development
- Deep Foundation Design
- Moisture Intrusion Engineering
- Marine Bulkhead/Dock Design
- Fire Damage Evaluation
- Storm Surge/Flood Inundation Analysis
- Building Code Reviews and Analysis
- Construction Document Peer Review and Analysis
- High-Rise Structures
- Educational Structures (Universities and Public Schools)
- Retail, Industrial, High-end Residential Structures
- Wind Turbines/Cell Towers

BIOGRAPHY

Donald Leffert brings more than 30 years of structural design and analysis experience for various types of buildings, bridges, and coastal structures. He specializes in structural systems including steel, reinforced concrete, pre-stress and post-tension concrete, wood, and masonry. His experience includes responsibility for maintaining schedule, budget, and client relationships for multiple projects and managing the administration staff, employees, subcontractors, and office operations. He has provided construction administration, field observations, and review of shop drawings for various types of projects and has prepared quality control manuals for use in all departments of the company.

He is an expert at preparing structural assessment reports of existing commercial and industrial structures for use by owners in the private and public sectors, insurance underwriters, attorneys, and realtors.

QUALIFICATIONS

Bachelor of Science, Civil Engineering – cum laude, Union College, Schenectady, New York

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INDUSTRY CERTIFICATIONS, LICENSES AND MEMBERSHIPS

Licensed Professional Engineer (Structural) – AL, AR, CO, CT, DE, FL, GA, IN, KS, KY, LA, MA, ME, MD, MI, MS, MO, NH, NJ, NY, NC, OH, PA, RI, SC, TN, TX, VA, WV, WI, USVI

PROFESSIONAL EXPERIENCE

- Halliwell, Director, Civil/Structural Engineering Services
- Steere Engineering Inc., Department Manager
- Structural Wood Systems, Inc., Director of Engineering
- Northeast Engineers Consultants, Chief Structural Engineer
- Tectonic Engineering Consultants, P.C. Senior Structural Engineer
- Asfour Associates, Senior Structural Engineer
- Volta, Project Engineer
- Anderson Structural Engineering, Structural Engineer
- Stone and Webster Engineering Corp., Structural Engineer

REPRESENTATIVE ASSIGNMENTS

Wind Turbines

100kW Wind Turbine | New England Region

Provided structural analysis for the wind turbine's 120-foot steel mast and its corresponding foundation design. The foundation designs included either drilled piers or octagonal shaped spread footings. Coordinated and directed all efforts of the geotechnical investigations for each site.

Telecommunications/ High Voltage Transmission Towers

Structural Assessments/Inspections of Towers | Wireless Communication Companies

Provided the structural assessments and inspections and prepared the structural analysis of the steel monopole and lattice towers to support antennas and cables subjected to wind and ice loads.

Structural Assessments/Inspections | High Voltage Towers

Provided structural assessments, inspections, and structural analysis for the steel taper monopoles to support of high voltage transmission lines and new telecommunication antennas subject to wind and ice loads through Connecticut, Massachusetts, and Virginia.

Forensic Studies

George H Mitchell Elementary School | Bridgewater, MA

Conducted a structural analysis and forensic study of the entire school's structural system to determine the causes of a roof failure. The study identified deficiencies in the engineering and installation of metal

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plated wood roof trusses. The findings were presented to the School Committee and residences at a Special Town Meeting.

225 Allens Avenue | Providence, RI

Performed a forensic study on existing damages and prepared a structural assessment of the entire building. The report was used in the negotiations for a long-term lease between the existing tenant and landlord.

Landings at South Park | Fall River, MA

Prepared a structural assessment report and provided expert testimony on the potential failure of an existing 14' high retaining wall, which was adjacent to a three-story building.

Structural Design

Butterfield Dining Hall Addition, University of Rhode Island | Kingston, RI

Project Manager for the design of a +5,900-SF addition to an existing dining hall with Vision 3 Architects. Addition encompassed multi-level roofs, green roofs, roof-supported exterior paved walkways, a second level student lounge, and large expanses of glass walls. Addition connected to existing structural systems for the adjoining dining structure and dormitory building. Project included expansion of the existing loading dock with a free-standing, brick-clad enclosure wall with overhead doors.

Potter League Animal Hospital | Middletown, RI

Provided all structural calculations, schematics, and design for a new 16,850 sf LEED-certified multi-level steel framed hospital with operating rooms, care facilities, training rooms, atriums, and offices. Lateral resisting system consisted of chevron braces. Flat sections of the roof were design to accommodate vegetated plantings. Several exterior sections of the building had three story atrium glass walls. Provided all phases of construction administration services.

Marine Science Laboratory Addition, Roger Williams University | Bristol, RI

Provided all structural calculations, schematics, and design for an 8,000-sf addition to the existing marine science laboratory. Due to deep excavations, soil nailing was employed for underpinning the existing foundation. Steel moment resisting frames were used for the lateral resisting system and its stiffness adjusted to be compatible with the existing structure. The roof was design for vegetated plantings and entire structure was design to accommodate future classroom floors. Provided all phases of construction administration services.

Headquarters for Failure Analysis & Prevention, Inc. | North Kingstown, RI

Project involved construction of a two-story 16,000 square foot steel structure for offices and testing areas that required clear story bays within the building. Performed structural analysis and design, provided construction administration, field observations, and review of shop drawings.

Stevens Street Medical Building | Taunton, MA

Provided structural analysis and design for the two-story 8,000 sf steel frame building. Lateral resisting system consisted of diagonal braces. Provided construction administration, reviewed structural shop drawings, and conducted site visits during construction to ensure compliance to design.

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Beverly Public Library | Beverly, MA

\$60 million project involved construction of a four-story, moment-resistant, steel building utilizing composite floor construction. Performed structural analysis and design, provided construction administration, field observations, and review of shop drawings.

Olin Language Center, Tufts University | Medford, MA

\$90 million project involved construction of a four-story, interior core diagonal braced steel building. Performed structural analysis and design, provided construction administration, field observations, and review of shop drawings.

United States Postal Facility | Hopkinton, MA

Project involved construction of a one-story, 15,000 square foot steel structure. Performed structural analysis and design, provided construction administration, field observations, and review of shop drawings.

Atlantic Hill Condominiums V | Hull, MA

\$25 million project involved construction of a seven-story, steel building with a four-story concrete parking garage consisting of lateral loads resisted by steel and concrete frames. Performed structural analysis and design, provided construction administration, field observations, and review of shop drawings.

Georgian Underground Parking Garage | Lake George, NY

\$5 million project involved construction of an underground concrete parking structure of cast-in-place slabs, joists, girders, and columns. Performed structural analysis and design, provided construction administration, field observations, and review of shop drawings.

Wastewater Treatment Plant | Manchester, NH

Project involved an addition to the existing treatment plant for an increase in capacity. Performed the structural analysis and design for the Primary Sediment Concrete Tank, Secondary Settling Concrete Tank and Aeration Steel Building (as sub consultant to CDM).

Retail

Walgreens Drug Stores | New England and Mid-Atlantic Regions

Project involved construction of one- and two-story retail facilities utilizing bar joist, girders, composite steel beams, wood trusses, and masonry walls. Performed structural analysis and design, provided construction administration, field observations, and review of shop drawings.

McDonald's Prototype Restaurants | New England Region

Project involved construction of a one-story structures utilizing steel bar joists, steel beams, and masonry shear walls. Performed structural analysis and design, provided construction administration, field observations, and review of shop drawings.

Red Lobster Restaurant | Tulsa, OK

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\$1 million project involved construction of a one-story steel structure supported by a post-tensioned slab system on grade. Performed structural analysis and design, provided construction administration, field observations, and review of shop drawings.

Village West Shopping Center | Plymouth, MA

\$15 million project involved construction an 80,000 square foot shopping center utilizing bar joists, girders, composite steel beams, wood trusses, and masonry walls. Performed structural analysis and design, provided construction administration, field observations, and review of shop drawings.

Residential

Residence, Ocean Avenue | Marblehead, MA

Structural design including roof framing, first, second and third floor framing, bearing walls, foundation, and conducted lateral wind analysis of the structure. Residence has a nearly 270-degree view of the ocean, which required unique shear walls. It has full height basement under the main section of the building, a three-bay garage with living space above, an elevator and several enclosed porch areas.

Residence, Ocean Lawn Lane | Newport, RI

Structural design including roof framing, first and second floor framing, bearing walls, foundation, and conducted lateral wind analysis of the structure. The estate included a three-bay garage 6500 sq ft boat house with 14-foot ceilings and living space above, an elevator and several enclosed porch areas.

Residence, Poppasquash Road | Bristol, RI

Structural design including roof framing, first and second floor framing, bearing walls, foundation, and conducted lateral wind analysis of the structure. Residence has full height basement under the main section of the building, a three-bay garage with living space above, an elevator and several enclosed porch areas.

Bridges

Weyerhaeuser Bridge | Portsmouth, RI

Conducted bridge type study, structural design and calculations for a 44-foot single span bridge utilizing prestress box beams. Design included bridge abutments, support of utilities and guardrail design.

Nashawtuc Bridge | Concord, MA

Structural design and construction documentation to provide the necessary upgrades and repair to the historic stone arch bridge. Services included oversight of the construction work to ensure compliance with design and specifications, daily construction reports, approval of the project at its completion, and provided as-built drawings.

Capella Street Bridge, Goat Island | Newport, RI

Provided structural inspections and existing condition report of the existing bridge. Prepared structural calculations, design, and construction drawings for the replacement of the 70-foot-long bridge.

Route 2 over 2A Bridge | Phillipston, MA

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Conducted bridge type study, structural design, and calculations for a three-span 150-foot-long bridge for Massachusetts Highway Department utilizing steel girders. Design included bridge abutment and guardrail design. Coordinated the geotechnical services required for the foundation design.

Norfolk Bridge | Norfolk, MA

Performed bridge ratings analysis to determine the operating and inventory load capacities for the existing bridge based on its current inspection. Prepared and submitted a detail report to Massachusetts Highway Department on the findings and developed recommendations to increase its longevity.

Fisher Street Proposed Bridge over Three Mile River | Taunton, MA

Conducted bridge type study, structural design, and calculations for a 75-foot single span bridge for Massachusetts Highway Department utilizing prestress box beams. Design included bridge abutment, support of utilities and guardrail design

Waterfront/Marine

Newport Naval Station | Newport, RI

\$2.5 million project involved construction of a 510 foot long by eight-foot-wide main floating concrete dock that was lateral supported by greenheart timber anchor piles. The Marina Administration building was located above the floats and supported on piles. Performed structural analysis and design of the floats, piles, and administration building. Provided construction administration, field observations and review of shop drawings.

Hyatt Regency Loading Dock | Newport, RI

Project involved the construction of a new steel sheet bulkhead with interior whalers which were supported by anchor (pipe) piles. Performed structural analysis and design, provided construction administration, field observations, and review of shop drawings.

Carnegie Abbey Marina | Portsmouth, RI

Project involved a new 41-slip in-land marina, first in RI. Project required the construction of a new steel sheet bulkhead with interior whalers which were supported by either anchor (pipe) piles or concrete deadman. Performed structural analysis and design, provided construction administration, field observations, and review of shop drawings.