Structural Engineering Services

New Construction: Single Story, Low Rise & Mid Rise Buildings • Accessory Structures • Parking Garages

Renovation & Additions: Horizontal Expansion • Vertical Expansion • Adaptive Reuse • Changes in Use & Loading Studies

Structural Repairs & Remediation: Foundation Settlement & Cracking • Masonry Wall Fractures • Corrosion Repairs

Condition Assessment & Feasibility Studies: Structural Condition Assessment • Vertical Expansion Studies

Building Envelope: Facades • Roofing • Windows

Construction Phase Services: Bidding Assistance • Shop Drawing & Submittal Review • On Site Observations

Project Types

Commercial: Retail • Office • Hotels • Banks • Restaurants

Industrial: Warehouse • Manufacturing • Distribution

Institutional: Schools • Libraries • Higher Education • Hospitals

Recreational: Gymnasiums • Pools

Residential: Multi-Family • Apartments • Condominiums
Client: Methuen Construction  
Project Type: Industrial  
Project Title: Portsmouth Naval Ship Yard; Kittery, ME  
As a result of a heavy windstorm, several of the repair towers that are used for accessing the submarines in drydock were knocked over and damaged. Methuen was engaged to renovate the 5 story steel framed towers and stairways. EBI was retained to evaluate the towers under wind loadings and recommend temporary or short term hold downs or guy wires to secure the towers during the renovation process. Since site area was at a premium, the towers could not be laid down or fully disassembled. EBI designed a series of guy wires and hold downs using precast traffic barriers to stabilize the towers and stairs.

Client: Interplan, LLC  
Project Type: Commercial  
Project Title: Smokey Bones Structural Design; Peabody, MA  
EBI was retained by the architect of record to provide civil and structural engineering services for the renovation of a former retail space into a new Smokey Bones Restaurant in the North Shore Mall. The scope included existing conditions documentation, structural and civil design services and construction phase services. The structural work included reinforcing the roof for new HVAC equipment and hung hoods, new storefront and canopies as well as penetrations through the structural slab for the smokers in the lower level.

Client: Sentinel  
Project Type: Residential  
Project Title: 66 St. Nicholas Place, Foundation Wall Repair; Harlem, NY  
EBI began by performing a full Property Condition Assessment on the 6 story apartment building in the Harlem neighborhood of New York. Serious deficiencies were noted in the rubble foundation wall and a structural report was generated. Through the property management company, EBI was retained to provide full design documents and specifications for the repair, partial rebuilding and repointing of the 1920's vintage stone rubble foundation wall. The investigation included sampling and testing to ensure a compatible mortar with with the lime based existing mortar.

Client: Northstar Realty Finance Group  
Project Type: Residential  
Project Title: Marquis Parc Apartments; Atlanta, GA  
EBI began by performing a full Property Condition Assessment on the 200+ unit garden style apartment complex on the outskirts of Atlanta, GA. Serious deficiencies were noted in the floor framing over the utility crawl spaces under the 2 story buildings and a structural report was generated. Several of the buildings had more than 50% of the floor joists repaired or replaced in the process. EBI made periodic site visits during the repair process to ensure the buildings were structurally sound following the removal and replacement of the rotted floor structures.
**EBI STRUCTURAL PROJECT EXAMPLES**

**Client: Cushman & Wakefield**  
**Project Type: Commercial - Retail**  
**Project Title: The Pier at Caesar’s; Atlantic City, NJ**

As part of an acquisition and repositioning, EBI was retained to provide engineering services to design and price the demolition of a two-story atrium water feature and infill the floor with slab and steel framing, and to accommodate a new retail tenant. The building is supported on deep piles and grade beams on the water line of the Atlantic City boardwalk. In addition, the glass curtainwall facing the open ocean was leaking and a façade investigation was performed by EBI to recommend remedial actions to attempt to eliminate the leaking and failure of the glazing systems.

**Client: Rialto Mortgage Finance, LLC**  
**Project Type: Residential**  
**Project Title: Creekside Corners; Lithonia, Georgia**

EBI Consulting was retained to conduct a Property Condition Assessment for a 444-unit apartment complex with 14, three-story apartment buildings; one, four-story apartment building; two, two-story apartment buildings; 11 garage buildings; a maintenance/car wash building; and a clubhouse/leasing office building, all located on a 37.05-acre lot. An equity structural inspection following the initial assessment identified water intrusion and building settlement. On site assessment recommended specific repairs and pricing to include the installation of trench drains, repair of cracked concrete slabs, and in-kind replacement of structural members.

**Client: Angelo Gordon & Co.**  
**Project Type: Industrial & Commercial**  
**Project Title: ARINC; Annapolis, MD**

The EBI Consulting was hired to conduct both an equity structural inspection and a building drawing review of an industrial/office complex with six, one to three-story buildings. On site assessment documented current condition of structure (good) and recommended future monitoring, repairs, and pricing.

**Client: BPG Properties LTD**  
**Project Type: Commercial - Office**  
**Project Title: Lincoln Town Center; Scottsdale, AZ**

EBI Consulting conducted a Property Condition Assessment for a multi-tenant office complex with two, five-story buildings and a four-level subterranean parking garage. Following the initial assessment that identified water intrusion, structural cracks, structural degradation, and structural settlement, EBI conducted an equity structural inspection, & drawing and document review. On site assessment recommended repairs to include sealant installation, epoxy injection, waterproofing, patch and repair of concrete, adjustment of bearing locations at skewed members, removal of rust and painting, and future monitoring of structure.