

## SAMPLING

### AVALON AT HATHORNE HILL - KIRKBRIDE BUILDING, DANVERS, MASSACHUSETTS

This project consists of extensive rehabilitation of the historic Kirkbride Building. As the centerpiece to the overall community, the Kirkbride Building will provide a health club, outdoor swimming pool, common lounge, and a half-sized basketball court.

### AYER PUBLIC LIBRARY, AYER, MASSACHUSETTS

Structural design for a 13,000 square foot addition to the town's historic library. This 1890's library, designed by Alexander Jenny, required heavy timber roof framing, steel-concrete composite framed floors and a conventional cast-in-place foundation to combine the old and new elements and to more than triple the size of the library.

### BAKER CHOCOLATE LOFTS, DORCHESTER, MASSACHUSETTS

The project consists of the adaptive reuse of the historic former Walter Baker Chocolate Factory. It consists of the renovation of the historic mill building into modern loft-style units while maintaining the historic nature of the building.

### BOSTON MEDICAL CENTER - 85 EAST CONCORD STREET BOSTON, MASSACHUSETTS

Renovation and restoration of exterior brick, limestone, facades, parapets, and historical porch fenestrations to an existing 8-story, 66,000 square foot hospital facility being converted into the main office facility for Boston Medical Center. Work included the demolition of an existing 1-story appendage and reconstruction of a new entrance lobby structure.

### BOSTON MEDICAL CENTER - BCD BUILDING, BOSTON, MASSACHUSETTS

This 3-story structure is one of the few remaining original buildings from the Boston City Hospital campus, built in the 1860's. Named for wards B, C, & D, the building has been vacant for nearly 30 years. The wood floor and masonry bearing wall structure is slated to be renovated to create a new home for the Boston Medical Center's IT department. To meet programming requirements, two new mezzanine levels will be constructed, and the floor systems will consist of concrete slabs on metal deck with structural steel framing. In addition, the entire structure will be retrofitted to meet current code requirements for seismic forces. This will include the construction of steel braced frames and moment frames along with tube steel wall bracing. The design process included much coordination to maximize floor heights, integrate mechanical requirements, and minimize costs while maintaining the historic integrity of the original building.

### BOSTON OPERA HOUSE, BOSTON, MASSACHUSETTS

Structural designs and sketches and on-site review of design implementation for temporary shoring and bracing of existing foundation walls.

### BOSTON UNIVERSITY - THE TALBOT BUILDING, BOSTON, MASSACHUSETTS

An 1876 brick and wood building which was changed from a homeopathic hospital to offices for Boston University's School of Public Health. The building was significantly reinforced and modernized. Due to the age of the original structure, the investigation of existing conditions presented challenges in examining the structure and upgrading it to modern Building Code standards.



Avalon at Hathorne Hill - Kirkbride Building  
Danvers, Massachusetts



Cable Mills  
Williamstown, Massachusetts  
Rendering courtesy of 160 Water LLC

## SAMPLING

### BRANDEIS UNIVERSITY - USEN TOWER, WALTHAM, MASSACHUSETTS

Restoration of a 19<sup>th</sup> century historical ornamental 8 foot diameter by 50 foot high stone masonry tower structure. Involved design of steel framing and replacement of all stone work.

### CABLE MILLS - WILLIAMSTOWN, MASSACHUSETTS

Built in 1873, the Water Street Mill was the third factory in Williamstown and was known for making wire and cable dating back to the post Civil War era. Through both adaptive re-use of the three historic mill buildings and also new construction, this community will consist of lofts, flats, townhomes and single-family duplexes on a nine-acre site.

### CANTON PUBLIC LIBRARY - CANTON, MASSACHUSETTS

Expansion of this historical library nearly doubled the size of the original structure, which was built in 1902. The primary structure of the addition of this building is steel framed with composite concrete on metal deck floor slabs and tube steel columns. The lateral system of the new addition is composed of moment frames. The foundation was constructed of cast-in-place spread footings. Extensive renovations and strengthening was done to the existing buildings structure per the requirements of the Massachusetts State Building Code, Chapter 34.

### CHART HOUSE RESTAURANT, BOSTON, MASSACHUSETTS

Since the original renovations in 1974 we have been involved in maintaining the structural integrity of the building. This has required stabilizing stone foundations of this historic structure due to pile driving in the area that had caused movement. A recent fire precipitated the restaurant to undergo a total rehabilitation and upgrade. (Received 2001 Massachusetts Historical Commission Preservation Award)

### COURT SQUARE PRESS BUILDING, SOUTH BOSTON, MASSACHUSETTS

Additions to and renovation of an existing six-story historic 260,000 square foot brick masonry and wood mill type building into condominiums. Our work included extensive surveys of the brick masonry bearing wall to identify damaged areas and produce masonry repair drawings. Our office also prepared full renovation and addition structural construction documents.

### 190 EVERETT STREET (CHELSEA BRICKYARD) - CHELSEA, MASSACHUSETTS

This site consisted of six structures constructed in 1908 of wood timber and exterior brick bearing wall. The development of the site required the removal of one structure and future renovation to the others. The existing main mill building was to be renovated and prepared for today's market. Our work involved design of a new steel beam, joist and deck, roof structure with provision for new HVAC equipment. The perimeter bearing walls required enhancement by design of a backup structural frame to conform to today's building code wind force design requirements. The final major redesign was to address the existing floor structure by repair and supplement framing to increase the live load capacity.

### FRANKLIN PUBLIC LIBRARY - FRANKLIN, MASSACHUSETTS

Performed a structural feasibility study and provided a report on the structural condition of the existing building. This library is considered America's first public library.



Leventhal-Sidman Clock Tower Restoration  
Newton, Massachusetts

## SAMPLING

### HOLYOKE HEALTH PLAZA - HOLYOKE, MA

Restoration of the “Maple Building”, which now includes medical offices, an expanded pharmacy and dental clinic, family practice and health education facilities. Renovations of the “Dwight Building” and “High Building”, the link between Maple and Dwight Buildings, and renovation of the tunnels between the two. Interior fit-up for the tenants and programs of the Dwight, High and Maple Buildings.

### LEVENTHAL-SIDMAN JEWISH COMMUNITY CENTER, NEWTON, MASSACHUSETTS

Structural condition survey of the historic clock tower, including structural inspection of the masonry facade, roof and floor structures. Provide report with our findings and repair recommendations. Produce a full set of Construction Documents.

### MASSACHUSETTS MILLS, LOWELL, MASSACHUSETTS

Structural design for the conversion of the existing industrial mills into housing. These buildings were sanctioned by the Historical Registry. Between the two phases of renovations, these former textile mills were transformed into 281 one, two, and three bedroom units. Amenities include a separate building housing a community room suitable for functions with an exercise room on the second floor. An outdoor swimming pool has also been added. Structurally, the textile mills generally comprise heavy timber and heavy wood decking floor and roof framing supported on brick masonry bearing/shear walls.

### RENAISSANCE ON THE RIVER (LAWRENCE MILLS), LOWELL, MASSACHUSETTS

The conversion of this historic mill complex consisted of renovating Buildings 16, 17 and 18 (each 3-stories) and Building 8 and 9 (each 6-stories). The original buildings are of mill-type construction, i.e., heavy timber beams and posts, tongue and groove wood planking, and exterior brick masonry bearing walls.

### THAYER MEMORIAL LIBRARY - LANCASTER, MASSACHUSETTS

Expansion of the existing library facility via new additions of approximately 11,300 square feet and reorganization of the existing library spaces. The space reorganization required demolition of an existing stack wing and structural retrofits to accommodate attachment of the new additions. The original historic library was repaired and restored throughout. The Civil War memorial was relocated to a more prominent location within the new library space. Composite steel framing provided the necessary flexibility in mating the new and old structure and integrating the new mechanical systems.

### TRINITY CHURCH, BOSTON, MASSACHUSETTS

Miscellaneous structural consulting for the Contractor during the preservation and expansion effort of this historic piece of architecture.

### WALTHAM WATCH FACTORY, WALTHAM, MASSACHUSETTS

This historic mill complex brought precision engineering to mass production in the United States. The renovation of several buildings into apartments and commercial space is now underway (Phase 1).

### THE WILBUR THEATRE, BOSTON, MASSACHUSETTS

Miscellaneous structural consulting through the years.



Mass Mills  
Lowell, Massachusetts



Mass Mills  
Lowell, Massachusetts