



Summary of Professional Experience and
Qualifications for

Joseph Lieber, P.E.
Principal

Mr. Lieber has 40 years of experience in Structural Design and Engineering and Project Management, including the review, design, analysis and administration of large commercial, industrial, hotel and retail projects. He is an asset in the fields of investigation, structural analysis, renovation and remedial repair of deteriorated or distressed structures. His capabilities include interpretation and analysis of the effects of lateral (wind, soil, seismic etc) and gravity loads. Mr. Lieber's experience includes the design of structures in structural steel, reinforced concrete, wood and masonry construction. His work experience covers the entire spectrum of building types ranging from low-rise and high-rise buildings to long span structures and includes new construction as well as rehabilitation and alterations of existing structures.

Education

Bachelor of Science, 1978, Polytechnic Institute of New York
Graduate courses, City College of New York

Registrations

Registered Professional Engineer in New York, New Jersey, Connecticut, Pennsylvania and Wisconsin.

Professional Activities

American Society of Civil Engineers
Institute of Transportation Engineers
The Municipal Engineers of the City of New York
SEAoNY – Structural Engineers Association of NY.

Awards

James F. Lincoln Arc Welding Merit Award, for the welded column reinforcement solution devised to repair seriously corroded sidewall columns discovered during the course of renovating the Herald Square Subway Complex in New York City (1993).

Publications

"Renovation of Historic Structures," American Society of Civil Engineers, Metropolitan Section Structures Group, Spring Seminar 1991.

"Northwestern Atrium: Steel Adapts to Complex Geometry," American Institute of Steel Construction, Inc., Volume XXVI Number 3/Third Quarter, 1986.

"Inspection and Rehabilitation of Structures: Renovation of Historic Buildings"; presented at ASCE Spring Seminar, 1991.

“Restoration of 280 Broadway – Rebirth of the Marble Palace” – The municipal Engineers Journal Vol 83 Issue 11/11 1996.

Representative Project Experience

Renovation Projects

‘Top of the Rock’ Observation Deck at Rockefeller Center, New York, New York. ADG provided structural design and engineering services for the redevelopment of the Observation Deck at Rockefeller Center, which allowed the reopening of the viewing terraces at 30 Rockefeller Plaza. This project consisted of multi-phase renovations throughout the historic 70-story building at 30 Rockefeller Center. These included extending four elevators by raising their motors two floors and re-supporting eight existing elevators in place while reworking their supports. New escalators were installed to provide access the roof and an elevator bulkhead was extended to allow an additional fifth elevator to be raised. Structural supports were provided for nine foot high cantilevered glass panels around the perimeter of each of three rooftop terraces. Mechanical and electrical equipment was relocated throughout the space. A new three-story atrium was created at the Concourse, extending to the Mezzanine level. The atrium features a curved floating stair and two shuttle elevators. The project also required demolition and reconstruction of a 10,000 gallon water tank and new dunnage support framing.



The Marble Palace, New York, New York. An extensive renovation and historic restoration of A. T. Stewart’s landmark Marble Palace at 280 Broadway was undertaken for the New York City Department of General Services. Work included creation of a Galleria, extensive underpinning, reconstruction of sidewalk vaults and reconstruction of historic roof framing.

A downtown New York City landmark, historic renovation of this 150 year old structure began in 1987. The project was central to the city’s efforts to revitalize its civic center and downtown business district and after restoration, 280 Broadway helped to stimulate tourism and promote private enterprise in the area. The building was restored to its 1917 condition, the year the New York Sun began occupancy and installed its famous clock. Additions made in 1921 were removed, marble columns were recreated, and mansard roofs were reconstructed at four corners of the building. It is envisioned that eventually the existing entrance will be widened and brought forward along with the entrance doors to the marble façade.



Major Upgrade of Rockefeller Center Facilities, New York, New York. Included renovation of landmark bronze window-wall facade and lobby interior. restoration of Exxon fountain, tenant space modifications, provisions for upgrading and installing new mechanical equipment and replacement and upgrading of exterior walls.

Alterations at the Chrysler Building, New York, New York. ADG provided structural design and engineering services in support of various alterations, such as the closure of floor openings at the 6th Floor, closure of stairs at the 31st and the 53rd Floors and stair removal at the 65th level of the Chrysler Building at 405 Lexington Avenue in New York City.

Alterations for a New Studio for NBC, New York, New York. ADG provided structural engineering services to install new computer equipment and UPS equipment for a Studio built on the 9th Floor at 30 Rockefeller Plaza.

CNN Studio, New York, New York. The new CNN Studio at 1271 Avenue of the Americas in New York City posed a unique challenge for ADG Engineers. Studio space requirements dictated the removal of an existing column at the Ground Floor of an 8-story building. A standard transfer system was not possible without overloading the adjacent columns and their footings. Remedial reinforcement work at the floor below was also not possible, due to the presence of critical equipment serving an adjacent 48-story office tower. Any disruption at all to the mechanical systems on the floor below was not acceptable. Engineers at ADG developed a unique double-transfer system to resolve these issues. The upper column is picked up at the Second Floor framing and the load is transferred via two end posts to a second set of transfer girders underneath the First Floor that returns all the load back to the original column below.

Fit-up Alterations for Dance Space Center, New York, New York. 280 Broadway, New York, NY ADG designed alterations to 40,000 sq ft of existing 160-year-old landmark building at 280 Broadway in downtown New York City for a Tenant. The Project involved removal of load bearing masonry walls in several locations, removal of structural piers, new stair openings and structural reinforcement. Dance Space Center (DSC) later planned to renovate the Second Floor of the building to serve as a dance studio. Architectural plans for the project indicated a number of sensitive structural engineering tasks such as creation of a 4-ft. wide door opening through an existing load-bearing masonry wall north of the courtyard, creation of two 5-ft. wide door openings through existing load-bearing masonry walls and creation of an additional 8-ft. wide door opening through an existing load-bearing masonry wall. ADG was also called upon to create an opening through the Second Floor for a new stair adjacent to the existing Chambers Street entrance lobby and to design the installation of a suspended lighting grid over the stage area and prefabricated seating risers in the theater space.

Tony Award Preparations at the Beacon Theater, New York, New York. When the Beacon Theater planned to host the Tony Awards within its facility in 2011, project plans called for for the installation of rigging, stage sets, lighting equipment, etc in accordance with the requirements of the design team of the Tony Awards. Axis Design Group International, LLC has provided structural engineering services to review the proposed rigging installation for the Tony Awards, including the attachments and support framing provided by the basic structural frame of the building. There were no existing structural drawings for the theater portion of the building.

Cirque du Soleil Preparations at Radio City Music Hall, New York, New York. Radio City Productions sponsored Cirque De Soleil during 2011 at Radio City Music Hall in Manhattan. Project plans were developed by Cirque De Soleil and their design team. ADG reviewed the proposed installation and undertook the following tasks: review of plans proposed by Cirque De Soleil, attendance at meetings,

site inspections of installations by Cirque De Soleil, review of loads and calculations prepared by Cirque De Soleil and provision of documents pertaining to Radio City Music Hall to Cirque De Soleil.

Commercial Facilities

111 First Street, New York, NY – This project consisted of reviewing reports associated with the ongoing legal matter concerning extending tenancy in the building complex, conducting a visit to the building complex to examine its condition, preparing a report of ADG's findings and providing expert testimony concerning the matter.

The HUB, Bronx York, NY - The project comprises two separate elements - a derelict municipal parking garage on the site has already been assessed for structural integrity and will be completely renovated in the course of the project. Adjoining the parking garage, a new pile-supported building will be home to a warehouse-style retailer and office space for New York City government agencies will be provided on the Second Floor.

32-34 Broad Street, Red bank, NJ - The project consisted of design of structural alterations to the building to add 1,800 sq. ft. of new fourth floor construction on top of the three-story portion of the building. The existing building consisted of 15,000 sq. ft. of floor space above grade on three floors, plus a full cellar. It was originally built about 1900, and was expanded and altered in several building campaigns, resulting in portions of the building with three stories, one story, and two stories.

Al Burj, Dubai, United Arab Emirates. The structural form of Al Burj has evolved from the structure of the bamboo plant. The tower's footprint is composed of three triangular shapes with curvilinear sides and a hollow circular interior. The stiff exterior shell with the hollow core results in an extremely efficient structural system. The building will house 724 apartments, each having a floor area ranging from 300 square-meter (3000 square feet) simplexes to 600 square-meter (6,000 square feet) triplexes with individual swimming pools. In addition to the residential portion of the building, an observation deck is planned at one of the top floors.

Americas Tower, New York, New York. New 50-story high-rise building for Americas Tower Partners. This office building contained approximately 1,000,000 gross square feet above grade. Additionally, there were below-grade levels containing 150 parking spaces.

CNBC NOC Project - Englewood Cliffs, NJ- The project included design of structural reinforcement for the support of the files proposed for installation in an area approximately 40 ft. by 40 ft. involving two full building bays, and will be installed over a 12-inch high raised floor.

CNBC NOC Project – Englewood Cliffs, NJ -The project consisted of design of a concrete foundation and pad for the support four 9.3meter diameter antennae dishes on a knoll behind the building.

Sonnenschein Nath and Rosenthal, New York, NY - Renovating facilities at 1221 Avenue of the Americas, NY. Evaluate structural capacity of existing floor construction of C-1 level for support of high-density files weighing 161 psf., structural capacity of existing floor construction of C-1 level for support of files with fixed (non-moving) shelving, suitability of existing concrete fill for potential structural application. Design structural reinforcement for C-1 level floor to support proposed high-density files.

NBC Emergency Generator Replacement Study, New York, NY – Performing a due diligence study of the structural requirements of the project, of replacing two 1600kW emergency generators on the 12th floor roof of the building at 30 Rockefeller Plaza.



280 Broadway, New York, New York. Extensive renovation and historic restoration of A.T. Stewart's landmark Marble Palace for New York City's Department of General Services, including creation of a galleria, extensive underpinning, reconstruction of sidewalk vaults and reconstruction of historic roof framing.

One Mellon Bank Center (Dravo Building), Pittsburgh, Pennsylvania. 54-story, 1.7 million gross square foot office building for United States Steel Realty Corporation (\$130,000,000).

101 Federal Street, Boston, Massachusetts. 32-story office building for Himmel/MKDG that connected to an existing 12-story office building, requiring matching floor to floor heights.

The Winter Garden at The World Financial Center, Battery Park City, New York. Four-story, U-shaped building which had a base with a 110 foot by 192 foot arched skylight roof structure, comparable to Grand Central Terminal. The Winter Garden was connected to World Financial Center Buildings B and C and to the World Trade Center by a pedestrian bridge.

Continental Center, New York, New York. 42-story, 1.2 million gross square foot office tower adjacent to the South Street Seaport in New York City (\$75,000,000).

Tampa City Center, Tampa, Florida. Quad Block Development of General Telephone and Electronics. The four city block development encompassed two 40-story high-rise office buildings and a 500-room Hyatt Regency Hotel. (\$170,000,000)

Liberty Center, Pittsburgh, Pennsylvania. A new urban project which consisted of a 619-room hotel, a 25-story office building and underground parking for 600 cars.

Battery Park City Commercial Development, New York, New York. New project in Lower Manhattan for Olympia & York which contained 4,000,000 gross square feet in two buildings, one 40-stories and one 50-stories high. (\$1-billion)

The Northwestern Atrium Center, Chicago, Illinois. The project consisted of a 40-story office building containing 1,700,000 gross square feet above the commuter train terminal, two atria, pedestrian bridge renovation and renovation of the existing train shed and platforms. (\$97,000,000)

Flushing Residential Towers, Flushing, New York. Two 19-story residential towers over retail and parking areas.

Office Addition to the Chicago Board of Trade Building, Chicago, Illinois. 23-story, 500,000 gross square foot structure. (\$60,000,000)

Exterior Envelop

15 West 47th Street, New York, NY - Managing rehabilitation of building façade rehabilitation program, including inspection and design of repairs for structural steel framing.

1384 Broadway, New York, NY – Designed reinforcement for the damaged structural framing as part of an exterior envelope rehabilitation program.

1776 Broadway, Local Law 11 Investigation, New York, NY – Performed Critical Examination of Exterior Appurtenances pursuant to Local Law 11 of the Administrative Code of The City of New York.

22 West 48th Street, New York, NY – Managing rehabilitation of building façade rehabilitation program, including inspection and design of repairs for structural steel framing.

387 Park Avenue South Condition Survey, New York, NY - Conducted a visual due diligence condition survey on structural framing of the building at 387 Park Avenue South, New York, NY.

237 Park Avenue Façade Investigation, New York, NY – Performed an investigation of the façade of the building at 237 Park Avenue to evaluate the origins of deterioration, and designed repairs to correct the deterioration and its underlying causes.

Residential Facilities

18 Market Street, New York, NY – This project consisted of the design of a new 66 feet by 100 feet three story residential building. The new residential building was to be constructed of load-bearing cold-formed steel framing and a complete reconstruction of an existing 33 feet by 80 feet three story industrial building.

240-242 Adelphi Street, Brooklyn, New York - This project consisted of a new 10 story, 50 feet residential building with a cellar. The building is 65 feet long at its base, and steps back to 55 feet deep above the second floor. The building is built on an open site 50 feet wide by 100 feet deep. The building is divided into two separate properties; however, it is structurally a single structure.

25 Great Jones Street, New York, NY – The project consisted of two separate new additions to the existing building. The new building has a will ten double height floors with an intermediate mezzanine

level at each floor. It will have a gross area of 16,500 square feet. The other building also has ten floors and a gross area of approximately 16,500 sq. ft.

110 Third Avenue, New York, NY – The proposed development of a 5,000 square foot site consists of a 21-story residential tower with 7,000 square feet of gross floor area, a 5,000 square foot cellar, a bulkhead, and two setbacks.

351-353 21st Street, Brooklyn, NY - The project consisted of primarily a three level addition to be built on top of an existing building. The existing building consisted of a three story residential building with a basement on a 20-foot by 60-foot footprint.

Judicial Facilities

Appellate Court Building, Brooklyn, New York. Condition Survey of former Appellate Court building for the Police Athletic League.

Waterfront Projects

Long Wharf Condominiums, New Haven, Connecticut. Evaluation of damage to harbor promenade.

Hospitals

New York Hospital Expansion, New York, New York. Project consisted of the addition of 800,000 GSF of new construction and major renovations of the existing hospital. The new building included a 12-story air-rights structure spanning the FDR Drive.



New York Hospital Medical Center of Queens, Queens, New York: A \$26-million ancillary addition to the existing facility formerly known as Booth Memorial Hospital. Project included new cardiac catheterization unit addition, new heater/chiller plant, new west addition to the ancillary building and new two-story pediatric emergency room building.

St. Joseph Mercy Hospital, Ann Arbor, Michigan. \$41.7 million project contained 643,000 GSF of space and 570 beds. The facility was a completely new General Hospital and contained specialty clinics for Hemodialysis, Alcohol Therapy and Oncology.

Provident Hospital, Chicago, Illinois. (\$30,000,000)

Jackson Heights Hospital, Jackson Heights, New York. Alterations and renovation.

Southside Hospital, Chicago, Illinois. Alterations and renovations to the Northwest Wing and the Gulden Wing.

Sisters of Mercy Hospital, Altoona, Pennsylvania. Project consisted of an \$8,000,000 general care addition to the existing facility.

Rosary Hill Home, Hawthorne, New York. Convent and patient care facility for the terminally ill. (\$12-million)

Educational Facilities



Manhattan College, Riverdale, New York. New dormitory building which consisting of approximately 7 to 12 levels containing 150,000 SF.

Hostos Community College, Bronx, New York. Alteration and rehabilitation of building containing classrooms and office space, including a new brick facade.

Borough of Manhattan Community College, New York, New York. Extensive additions of catwalks for access to mechanical/electrical equipment.



College of Staten Island, Willowbrook, New York. Design of a new gymnasium, pool, basketball, squash courts and day-care center. Project also included renovation of existing buildings for use as garage, maintenance and warehouse.

Hotel

Bally's Park Place Hotel and Casino, Atlantic City, New Jersey. Design of the new 750-room, \$214-million hotel and casino entertainment complex.

Harrah's Holiday Inn Hotel/Casino, Atlantic City, New Jersey. Design of the new \$85-million hotel and casino.

Liberty Center, Pittsburgh, Pennsylvania. The project consists of a 619-room hotel, 25-story office building and underground parking for 600 cars.

Renovation of The Bellevue (formerly the Bellevue Stratford Hotel), Philadelphia, Pennsylvania for Richard I. Rubin & Company. The project consists of the conversion of the landmark hotel to a mixed-use project containing approximately 150,000 SF of retail space, 250,000-SF of leasable office space, a luxury hotel and two atria.

Parking Facilities

Lakeview Parking Garage, Harlem, New York. Condition survey and major rehabilitation of the reinforced, concrete two-level garage for Grenadier Realty Co. Project included preparation of a maintenance program (\$1,000,000).

Buena Vista Parking Garage, Yonkers, New York. Condition survey and major rehabilitation of the 3-level garage. Project included preparation of a maintenance program. (\$1,000,000)

Bridges

Two bridges for the Battery Park City Commercial Development. The 420-ft. long North Bridge has a main span of 280 feet across the Westside Highway and involved extensive renovations to the Custom

House at the World Trade Center. The 340-ft. long South Bridge has a main span of 220 feet across the Westside Highway.

Entertainment Facilities

Major renovation of the former 4-story Fox Movietone Studios for the **Sony Music Studio** in NYC. The project includes 2 sound stages, 16 audio recording production rooms, 4 video editing rooms, a television control room, 2 rehearsal rooms, 4 songwriters' offices and an audio video library and archive (\$40,000,000).

Major renovation of **Radio City Music Hall**, New York, New York, including support for theater equipment, HVAC upgrade and animated marquee figures.

Renovations to NBC Studios, New York, New York, including the new Today Show set.

Condition Surveys

PATH Tunnels at Exchange Place, Jersey City, New Jersey. Involves the construction of a new interlocking between five existing tracks. Project includes the design of new tunnel structures and survey of existing low and high rise buildings.

Rockefeller Center Complex, New York, New York. Performed due diligence and structural condition survey of all buildings between 5th and 6th Avenue that comprise the landmark complex.

New York Hospital Medical Center of Queens, Queens, New York. Condition survey of entire complex, consisting of 9 existing buildings.

World Trade Center Disaster, New York, New York. Immediate damage assessment of buildings in the collapse area, assistance with demolition and temporary stabilization procedures, design of grillages and analysis of existing structures to support construction equipment, coordination of the survey monitoring of existing damaged structures, and inspection of hundreds of buildings in the area surrounding the collapse site.

Hudson Street Complex (previously General Foods), Hoboken, New Jersey. Feasibility study and condition survey of existing buildings.

1290 Avenue of the Americas, New York, New York. Performed structural condition survey.

Colgate-Palmolive Complex, Jersey City, New Jersey. Due diligence visual survey of 7 buildings in the complex.

Lakeview Parking Garage, Harlem, New York. Condition survey and major rehabilitation of the reinforced, concrete two-level garage for Grenadier Realty Co. Project included preparation of a maintenance program (\$1,000,000).

Buena Vista Parking Garage, Yonkers, New York. Condition survey and major rehabilitation of the 3-level garage. Project included preparation of a maintenance program. (\$1,000,000)

1776 Broadway, New York, New York. Performed structural assessment of existing 20-story building.

Prudential Complex, Horsham, Pennsylvania. Conducted structural survey of four office buildings.

21 to 25 W. 14th Street, New York, New York. Performed structural condition survey of existing two-story structure.

AT&T Building (now SONY), New York, New York. Performed due diligence for existing commercial building.

Utility Projects

Con Edison at various locations-Performed structural engineering services for Con Edison at Mott Haven, 230 Park Avenue, New York, NY, West 59th Street, New York, NY.

Transportation/Aviation Facilities

East Side Access, New York, New York. Project connected the LIRR to Grand Central Station and increased LIRR's capacity into Manhattan by 45%. It used the lower level of the existing 63rd Street tunnel and had connections to LIRR's Main Line and Port Washington branch. The project also included a new commuter rail station in Sunnyside, Queens. Engineering work included the analysis of 14 existing private buildings over the site and design of all superstructures in Manhattan, including service buildings, cooling towers, ventilation buildings, loading docks, etc. Included special consulting services for all column transfers and design of schematic concepts for tunnel platforms.

PATH Tunnels at Exchange Place, Jersey City, New Jersey. Involves the construction of a new interlocking between five existing tracks. Project includes the design of new tunnel structures and survey of existing low- and high-rise buildings.

St. George Intermodal Ferry Terminal, Staten Island, New York. This project includes the rehabilitation of the existing waiting room, concourses and the expansion of the NYCDOT facility space and utility upgrades. Major highlight is the new arch structures about 80 ft. in height and 300 ft. in length, spanning over the new and north building and new maintenance facility.

34th Street – Herald Square Subway Complex Station, New York, New York. In-depth structural inspection, design and construction support for the \$60-million modernization and expansion of Complex which includes the IND, BMT and PATH Stations. The project included tunnel repairs, stair relocations and temporary bracing of streets and portions of the subway station during the construction of new elevators, escalators and ramps.

Brighton Beach Line, New York, New York. Structural inspection and rehabilitation of 6 stations along the Brighton Beach Line for the New York City Transit Authority. The \$28-million project includes two elevated rail viaducts and four road bridges.

METRA, Chicago, Illinois. Project included replacement of the existing train shed structure of approximately 239,000 SF. The new structure was designed to accommodate the elimination of every

other existing column, providing twice the lateral clearance of the existing bay. Also included interface with operating terminal and elevated train tracks.



Cortlandt Station, Cortlandt, New York. Planning and design for new train station parking and site access, including a 750-car parking lot, road access system, accessible parking, and intermodal transfer for buses and taxis at new station for Metro-North Railroad. Planning included environmental impact statements, landscaping, traffic and road design, as well as complete design of parking lot.

Executive Terminal for Butler Aviation, Baltimore, Maryland. Baltimore Washington International Airport, 2,500-SF building incorporating passenger and pilot lounge areas as well as administrative offices (\$300,000).

Design of the FIS Terminal at O'Hare International Airport, Chicago, Illinois; included a 15' x 900' cable-supported overhanging canopy and alterations to an existing parking garage.

Redevelopment of Hangar 14 at John F. Kennedy International Airport, Queens, New York for Japan Air Lines. The project includes rehabilitation of 573,000 SF of office and cargo space, and 360,000 SF of new construction including a cargo addition, general aviation terminal, and new airport general maintenance facility.