

JAMES P. QUINN, P.E., LEED AP

Principal



Summary

Jim joined Thornton Tomasetti in 1998 and provides overall management and technical direction of transportation, site/civil, traffic, roadway and utility projects. He is an expert on the requirements for expeditious reviews and approvals for civil engineering scope for roadway, bridge, site civil and utility projects. Jim has worked on numerous LEED certified structures. His knowledge of the civil and transportation related components of a LEED pursuit, including parking, transit and bicycle accessibility, pavements, water quality and quantity, etc., have proven invaluable for the client and / or owner in capturing sought-after LEED credits.

Areas of technical expertise

- Site Civil Engineering
- Geometric Roadway Design
- Pavement Design
- Bicycle Design
- Traffic Analysis

Education

- B.S.C.E., 1980, Manhattan College

Registrations

- Licensed Professional Engineer in DC, IL, MA, NY
- LEED Accredited Professional

Professional activities

- Member, Institute of Transportation Engineers (ITE)
- Member, American Society of Highway Engineers (ASHE)

Select project experience

Site Civil Engineering

Mt. Sinai Downtown Medical Campus, New York, NY.

Demolition of a residential building to create a new downtown campus at the current site of their NY Eye & Ear Infirmary. New seven-story hospital building with procedural floors and bed floors, linked to an existing adjacent building at the lower levels.

Westchester Square Library, Bronx, NY. Site civil and

geotechnical engineering services for a new library in the Bronx including soil and erosion control plans, drainage and stormwater detention system design, site connection submission to the NYCDEP for review and approval and coordination with the adjacent NYC Transit structure. LEED Gold.

BAM Park, Brooklyn, NY. Geotechnical investigations and

reports, curb and sidewalk replacement, street lighting, stormwater management, urban design and maintenance of traffic as part of the rehabilitation of public space that lies in a triangle between Fulton, Lafayette and St. Felix Streets in Fort Greene, Brooklyn. Ground settlement has caused substantial sidewalk damage in and around the park, which has resulted in a closing of the park.

Constitution Gardens on the National Mall, Washington,

DC. Civil engineering for the major rehabilitation of Constitution Gardens on the National Mall including site civil design for a new two-story building, drainage for the entire site, lighting calculations, traffic and retaining wall design.

Columbia University Medical and Graduate Education

Building, New York, NY. Site civil, site/structural and geotechnical services for a proposed 13-story education building in Manhattan including soil boring program, underground stormwater detention system, foundation design, sanitary sewers and utility connections and routing.

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Marine Air Terminal Security Bollards, Astoria, NY. Civil engineering design for security bollards at LaGuardia Airport. Included the design of a relocated sewer main, electrical conduits and coordination with public and private utilities.

Port Authority Bus Terminal, New York, NY. Civil engineering for the reconstruction of sidewalks surrounding the bus terminal, which is required for the installation of security bollards, including relocation of the south curb line on West 41st Street that resulted in the design of a new 12" water main in the roadway.

121st Police Precinct, Staten Island, NY. Civil engineering design for a new \$54-million precinct station house in Staten Island. The proposed building provided administrative spaces, locker rooms, lavatories, dormitories, shower facilities, equipment storage area, interrogation rooms, prisoner detention areas and a muster room, and included an 85-space off-street parking lot, a rear yard and open space. Design includes a stormwater conveyance and detention system that will treat runoff. Provided the design and credit documentation for erosion and sedimentation controls and stormwater design in support of LEED goals for Silver certification.

Brooklyn Botanic Gardens Visitors' Center and Entry Plaza, Brooklyn, NY. Civil engineering in support of the Master Plan to modify visitor orientation and experience. The new program included retail and exhibition space, a lobby, small cafe, offices, two outdoor plazas, landscaping and restrooms. High performance building goal for the project is to achieve a LEED gold rating with features including rainwater treatment through a series of planted infiltration basins.

Albert Einstein College of Medicine - Price Center for Genetics and Translational Medicine, Bronx, NY. Civil engineering services for the design of a new six-story, 190,000-square-foot research facility, as well as exterior renovation of the adjacent Forchheimer building, to create a new faculty/student center and a new plaza entrance.

Geometric Roadway Design

Times Square, New York, NY. Preparation of preliminary and final design contract documents for the reconstruction of Times Square. The project limits are southbound Broadway and Seventh Avenue and encompass the streets between West 47th to West 42nd Streets, with the entire roadway limits directly atop the subway system.

Stapleton Waterfront Area, Staten Island, NY. Civil engineering for a major redevelopment of a 36-acre site along the north coast of Staten Island. The project calls for the demolition of buildings and the establishment of a grid system of streets and landscape promenades for the new development. The purpose of the project was to provide the infrastructure and landscaped park for future residential housing.

Fordham Road, Bronx, NY. Preliminary and final design for traffic and landscaping improvements from Southern Boulevard to the Bronx River Parkway, a total length of approximately 2,000 feet.

FDR Drive Southbound Roadway, New York, NY. Civil engineering for the pavement rehabilitation between East 49th and East 42nd Streets. Services included implementation of short-term solutions (milling and resurfacing) to eliminate the uneven pavement condition and the preparation of a preliminary design report for long-term pavement remediation. The challenge for the short-term solution was to develop a roadway profile that raised the manholes and catch basins while maintaining adequate clearance under the United Nations Plaza.

Nassau Expressway and Rockaway Boulevard, Queens, NY. Prepared preliminary and final highway design documents (Phases I-VI) for the rehabilitation and resurfacing of Nassau Expressway and Rockaway Boulevard from Cross Bay Boulevard to the Nassau County Line (over 37-lane-miles).

Pavement Design

Station Square, Forest Hills, NY. Contract documents for the rehabilitation of Station Square, arguably the most iconic open-space plaza within the boundaries of New York City. Includes the removal of the 100+-year-old bricks, stabilization of the subbase, analysis of drainage patterns and restoration of the Union Jack pattern within the bricks.

37th Road Plaza, Queens, NY. Civil engineering for the preliminary and final design of the reconstruction of sections of 37th Road and 73rd Street, known as Diversity Plaza in Jackson Heights.

Bicycle Design

Grand Concourse - Median and Service Roads Phase II, Bronx, NY. Preliminary and final design of the reconstruction of service roads and medians of the Grand Concourse from 166th to 171st Streets. The key component of the project was widening of the raised concrete medians that separate the main roadway from the service roads. This reconstruction improves safety and quality of life for all users of the Grand Concourse by reducing traffic speeds and converting part of the right-of-way (ROW) to increased plantings and bicycle lanes.

Roberto Clemente Plaza, Bronx, NY. Final design for pedestrian improvements to The Hub in the Bronx centered at East 149th Street and Third Avenue. The focal point of the project is the creation of Roberto Clemente Plaza, which involves vehicular closing of Willis Avenue from East 148th to East 149th Street. Includes pedestrian and traffic safety, conversions of streets to one way, roadway and sidewalk reconstruction and geometric design, bicycle design through the plaza and maintenance and protection of traffic

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Mosholu Parkway, Bronx, NY. Preliminary design of roadway and landscape improvements of Mosholu Parkway from West Gun Hill Road to Dr. Theodore Kazimiroff Boulevard. The project includes roadway narrowing (a result of a dedicated bicycle lanes throughout the corridor), intersection improvements, landscaping and flooding abatement. Included trunk and distribution water main replacement and significant sewer reconstruction.

Traffic Analysis

Citigroup Data Center Facility Parking Lot, Rutherford, NJ. Citigroup is planning to relocate approximately 1,000 employees from an office building in Warren, NJ to their underutilized facility in Rutherford (30+ miles apart) in three relocation phases.

MetLife Parking Lot Expansion, Bridgewater, NJ. Feasibility study for the expansion of the 1,200-space parking facility. The study included several alternatives and a preliminary construction estimate. Alternatives included restriping the existing parking facility or an expansion of the parking facility (preferred alternative). The preferred alternative added approximately 150 new parking spaces to a site surrounded by physical barriers (20-ft sound berms, wetlands and a riparian zone). The feasibility study included a utility study and assessed the impacts to the wetlands and riparian zone.

Sworn testimony

Deposition and Trial, Boutros v. Smith-Sondy, et al, regarding a pedestrian fatality from an accident with a vehicle in a United States Postal Service parking lot in Kearney, NJ. October 17, 2018 and May 7, 2019

Deposition, Sitz v. Paschen, et al, regarding roadway design and construction of Highway 31 in Algonquin, IL. March 27, 2018

Deposition, Tucholski v. New York State Bridge Authority, regarding guiderail design and maintenance in New York State. June 26, 2015

Litigation

Salomon-Merlino vs. AECOM, et al regarding a personal injury to a motorcycle driver within a construction zone in Lodi, NJ.

Germain vs. Alta Planning, et al regarding a bicycle accident with a truck in Atlanta, GA.

Walmart vs. Catellus, et al concerning pavement settlement issues in a commercial parking lot in Teterboro, NJ.

Taylor vs. City of NY, et al, regarding a personal injury in the vicinity of a pothole on West 46th Street in Manhattan.

Boutros vs. Smith-Sondy, et al, regarding a fatality between a pedestrian and a vehicle in the parking lot of the Dominick V. Daniels Process and Distribution Center in Kearney, NJ.

Kelly vs. Alfa Romeo, regarding a personal injury that occurred on the sidewalk adjacent to an Alfa Romeo dealership in Larchmont, NY.

O'Hara vs. Smith, regarding a personal injury that occurred when two vehicles collided on a residential roadway in New Rochelle, NY.

Sitz vs. Paschen, et al, regarding a single-vehicle motorcycle crash allegedly with a manhole frame within the roadway of Highway 31 in the Village of Algonquin, IL.

Henrickson vs. Intercounty Paving Association, et al, regarding the alleged hazardous condition of the sidewalk outside of the Manhasset Public Library in the town of North Hempstead, NY.

Village of Mamaroneck vs. Arben Construction, regarding a dispute over proper representation of an existing sewer main in construction drawings.

Rojas vs. Empire City Subway [Verizon], regarding an alleged tripping hazard on the curb and sidewalk due to a telephone utility manhole.

Tucholski vs. New York State Bridge Authority, regarding liability in a traffic accident that resulted in injuries to a motorist.

Alternative dispute resolution

Mojave Access Road, regarding a dispute over pre-existing conditions vs. repair obligations of the contractor in response to storm damage of an access road and wind turbine pads.

Port of Miami Tunnel – Defect/Dispute #157 Rigid Pavement Quality, regarding a dispute between the contractor and the operator of a tunnel connecting the city of Miami with the Port of Miami.

Select papers, lectures and publications

"Building Livable Communities through Transportation: Redesigning New York City's Frederick Douglass Circle," ITE Journal, August 1999 (co-author)

CONTACT

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