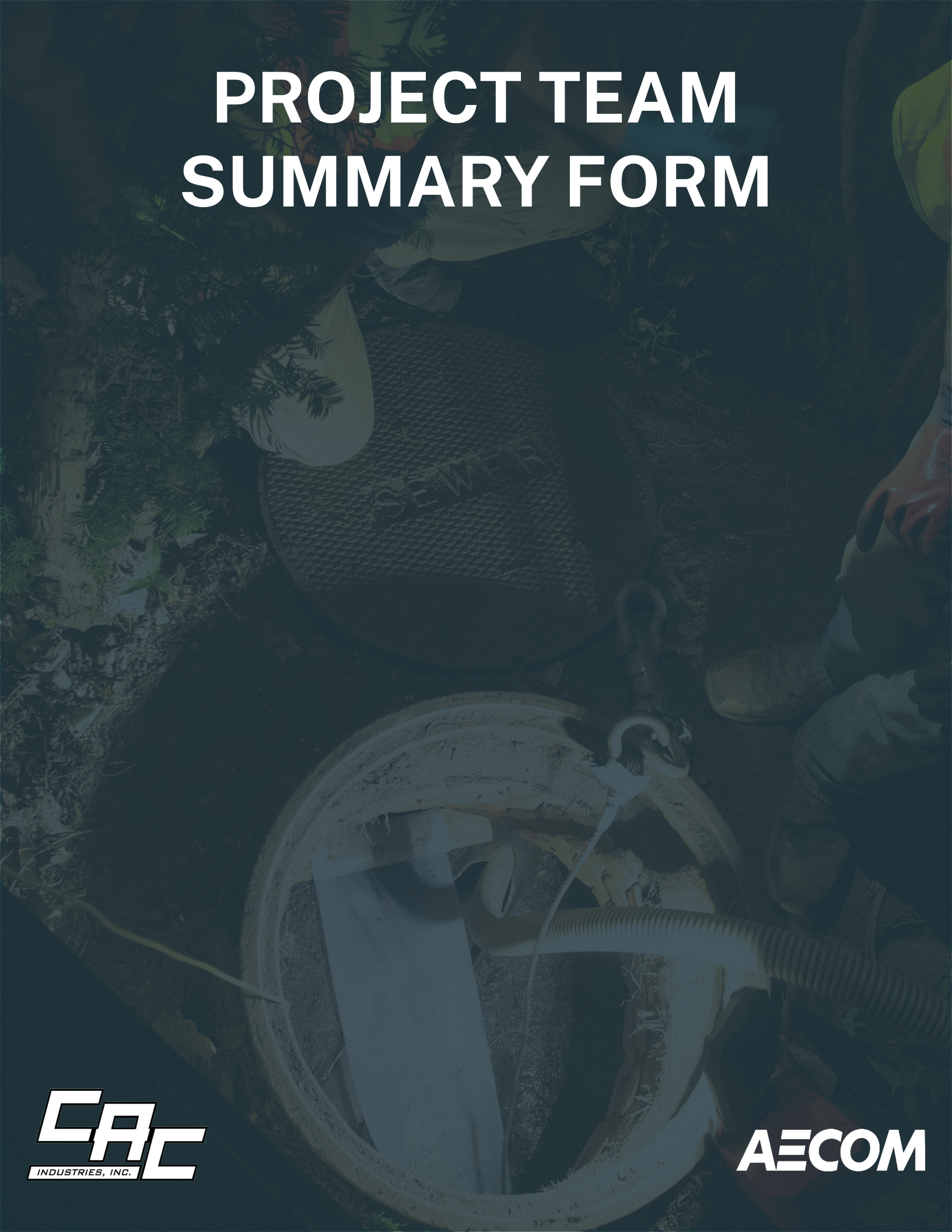
PROJECT TEAM SUMMARY FORM



CAC INDUSTRIES, INC.

AECOM

PROJECT TEAM SUMMARY FORM

INSTRUCTIONS: List each Reference Project in the matrix below, in accordance with Exhibit B. To demonstrate experience, additional projects may be listed on this form, up to a total of 15 projects. For each project, indicate the proposed Major Participants and Key Personnel who participated.

		207th Street Yard Sewer Line Relocation	Relocation of 90-inch Interceptor Sewer	Combined Sewers and Appurtenances in Penelope Ave	Randall's Island Water Main	SESD WW Maintenance Facility	Rehabilitation of Grand Concourse Bridge Over MNRR Hudson Line	Reconstruction of Streets in Rosedale Area	48" Trunk Water Main and 20" 8" Distribution Water Main Replacement	Second Avenue Subway Ph.2 Co. 1	BED776	Warren & John	East Side Coastal Resiliency	SUNY Old Westbury	ADA Package 2	ADA Package 4
Major Participants	C.A.C. Industries, Inc.	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AECOM USA Inc.				✓	✓								✓	✓	✓
Personnel	**Design-Build Project Executive** Oswald Calderon, DBIA, LEED GA | C.A.C. Industries, Inc.	✓					✓	✓	✓	✓			✓			
	Design-Build Project Manager Ertugrul Dogan, Assoc. DBIA | C.A.C. Industries, Inc.	✓					✓									
	Design Project Manager Sunil Rajani, PE, ENV SP | AECOM USA Inc.				✓									✓		
	Design Project Manager Civil Chanel Lubin, PE | AECOM USA Inc.				✓									✓	✓	
	Design-Build Project Scheduler Lucyna Pelc-Maj | Avila CPM															
	Construction Project Manager Anthony Monaco, Assoc. DBIA | C.A.C. Industries, Inc.												✓			
	Superintendent Mateusz Perzan, Assoc. DBIA | C.A.C. Industries, Inc.	✓					✓			✓		✓	✓		✓	✓
	Design Senior Civil Engineer Paul Aviza, PE, DBIA, LEED AP BD+C | AECOM USA Inc.				✓									✓	✓	✓
	Quality Manager Samira Ayati, PE, DBIA, CCM | Ivy Engineering									✓						
	Safety Manager William Flaherty, CHST | C.A.C. Industries, Inc.	✓					✓	✓	✓	✓			✓			

RESUME TEMPLATE

CAC INDUSTRIES, INC.

AECOM

Position/Assignment for the Project: **Design-Build Project Manager**			
Firm Name:	C.A.C. Industries, Inc.	Total Years of Experience:	28
Name:	**Oswald Calderon, DBIA, LEED GA, EIT**	Current Firm:	1
Title:	Executive Vice President and COO	Other Firm(s):	27
Degree:	MBA, M.E., B.S.	Specialization:	Business Administration, Environmental Engineering, Civil Engineering
Year Earned:	2001, 1999,1997	Registration:	EIT Certified as of 11/1997 (078745)

Professional Overview:
Ozzie Calderon brings 28 years of industry experience, including as a Project Executive on several design-build projects. Ozzie's 13 years of experience in design-build projects includes several NYCDDC projects ranging from $45 million to $1.3 billion. His design-build experience includes several large-scale projects such as: NYCDDC Reconstruction of Gateway Estates, NYCDDC 48" Trunk Water Main and 20", 12", 8" Distribution Water Main Replacement – East New York Avenue and Jamaica Avenue, Brooklyn, NYCDDC Reconstruction of Streets in Rosedale Area – Phase 2, NYCDDC NYC Borough-Based Jail System. In addition to these, Ozzie has successfully led various other projects, demonstrating expertise in project management, utility coordination, and strategic planning to drive project success.

Additional/Relevant Certifications:
- DBIA Professional – Design-Build Institute of America
- LEED Green Associate (GA) – U.S. Green Building Council
- EIT Certification – Certified since 11/1997 (078745)
- OSHA 40-Hour Certification – Occupational Safety and Health Administration

Experience:

COO / Reconstruction of Gateway Estates - Phase E/ NYCDDC/ $45M
This project provides new infrastructure, including storm and sanitary sewers on wood piles, drainage systems, water mains, traffic and street lighting, sidewalks, and roadways, for a housing development consisting of 70 "octet" buildings (560 units). The construction takes place on a former landfill site, requiring the removal of 200,000 tons of contaminated soil. Ozzie's responsibilities include overseeing project execution, ensuring efficient procurement and contract management, and maintaining compliance with regulatory requirements. Includes attending monthly meetings with the resident construction manager and conducting field coordination meetings with the superintendent to monitor progress, address challenges, and drive project efficiency.

COO/ East Side Coastal Resiliency / NYCDDC/ $1.3 billion (Total Contract)
This project is part of a federally funded coastal resiliency initiative, raising the entire East River Park by nine feet to protect Lower Manhattan from flooding, as seen during storms like Sandy. The scope of work includes constructing a new seawall/bulkhead, aboveground and buried floodwall, esplanades, swing and roller gates, and upgrading existing power infrastructure, including oil-o-static facilities. Additionally, the project entails a complete overhaul of the combined sewer and sanitary systems, incorporating tide gates and regulators for storm overflow management.
Ozzie is overseeing all aspects of sewer and utility work, managing revenue, costs, and CPM scheduling while coordinating with joint venture partners to ensure seamless project execution. He provides strategic direction for field crews, negotiates sewer and utility scopes, and leads coordination efforts across the site. He also manages proposals and negotiations for any additional sewer and utility-related work, ensuring alignment with project objectives.

COO/ 48" Trunk Water Main and 20", 12", 8" Distribution Water Main Replacement in East New York Avenue and Jamaica Avenue, Etc., Borough of Brooklyn / NYCDDC/ $77M
This project includes the installation of 48" trunk water mains, structural rehabilitation of steel trunk water mains, 8", 12", and 20" distribution water mains, combined sewers and basins, traffic signals, street lighting, fire department facilities, pedestrian ramps, and road restoration. The work takes place in locations adjacent to bridges, transit facilities, and major utility corridors, requiring extensive coordination with multiple stakeholders, including utility providers and city agencies.
Ozzie oversees all aspects of project execution, ensuring adherence to contract documents and specifications, development and management of project schedules, and compliance with regulations when working near transit facilities. He manages budgeting, procurement, cash flow, and administrative functions while ensuring accurate, real-time reporting through data collection and tracking.

COO/ Reconstruction of Streets in Rosedale Area – Phase 2 / NYCDDC/ $51M
This project involves the comprehensive reconstruction of streets in the Rosedale area. The scope includes water main and storm and sanitary sewer replacement, installation of new box culverts, access manholes, and chambers, as well as repairs to

sidewalks and curbs. Additionally, the project upgrades streetlights, traffic signals, and other critical infrastructure. Ozzie's responsibilities include overseeing the development and management of the project schedule, ensuring all phases align with operational goals and deadlines. He is responsible for securing subcontract agreements while meeting M/WBE requirements, reconciling payment quantities, and preparing payment packages. He leads coordination efforts with subcontractors and relevant city agencies, ensuring smooth execution and compliance with project specifications. Additionally, Ozzie maintains efficiency, quality, and adherence to contractual obligations.

COO/ Rehabilitation of Grand Concourse Bridge Over MNRR Hudson Line / NYCDOT / $45M

This project involves the reconstruction of a vital bridge that supports four vehicular traffic lanes, four shoulder lanes, two pedestrian sidewalks, and three railroad tracks**.** The scope includes the removal and replacement of the existing bridge superstructure, concrete deck, and asphalt overlay, as well as the reconstruction of bridge approach slabs and on-grade approaches**.** Additionally, deteriorated structures within and beneath the subway system are being replaced to ensure structural integrity. Ozzie's responsibilities include overseeing all aspects of project execution, including the reconstruction and relocation of sewer systems, the removal of existing utilities, and the installation of new water mains, electric and gas ducts, and telecom infrastructure. He manages revenue, costs, and scheduling while coordinating with stakeholders to ensure seamless integration of utility and structural work. He ensures efficient execution, quality control, and compliance with project requirements, including the relocation and enhancement of street lighting fixtures throughout the bridge approaches.

COO/207th Street Sewer Relocation / MTA C&D / $98M

This project involves the installation of an interceptor sewer pipe using micro-tunneling through jet-grouted tunneling pits along 10th Avenue and 215th Street, as well as the construction of two regulators in the same area. The scope also includes the relocation of private and public utilities, reconnection of yard internal facility drainage to the combined sewer system using new pumping stations, pneumatic ejector pump pits in overhaul and inspection shops, and the lining of existing outfall pipes passing through the yard. Ozzie oversees the project team and ensuring all aspects of the project are completed efficiently and accurately. This includes managing project finances, schedules, construction activities, and operations while maintaining strict adherence to safety and quality standards. Additionally, his responsibilities include overseeing all technical aspects of the project, ensuring compliance with regulatory requirements, and coordinating efforts across multiple stakeholders to achieve seamless execution.

COO/ Second Avenue Subway Phase 2 Utility Relocation and Building Remediation - 106th Street Station in the Borough of Manhattan /MTA C&D/ $142M

This project involves extensive utility relocations along 2nd Avenue in Manhattan to accommodate the tunnel boring machine (TBM) and cut-and-cover tunnel sections for the extension of the 2nd Avenue subway line, adding three new ADA-accessible stations. The utility relocations span 20 blocks along 2nd Avenue and multiple side streets, including water, sewer, electric, gas, and telephone infrastructure. Given the heavily trafficked city thoroughfare, significant maintenance and protection of traffic (MPT) efforts are required, along with close coordination with third-party utility companies. In addition to utility relocations, the project includes underpinning 20 buildings along 2nd Avenue, requiring collaboration with adjacent property owners, pre- and post-construction surveys, and vibration monitoring. Ozzie implements value engineering strategies in collaboration with structural engineers to optimize design and eliminate unnecessary elements. He manages all foremen and construction crews to ensure safe, high-quality work in accordance with contract documents. He coordinates with the project manager to align daily construction activities with productivity and schedule goals. The project team works closely with stakeholders to optimize contract drawings and mitigate schedule and cost impacts through revisions to shop drawings, ensuring alignment with an aggressive construction timeline.

COO/South Battery Park Resiliency Package 4/ Battery Park City Authority/ $69M (Total Contract)

C.A.C.'s portion of the work includes the installation of a new flood barrier system at Pier A Plaza and The Battery, as well as near surface isolation (NSI) work along West Street. As part of this project, our team will be constructing deployable flip-up gates, cast-in-place concrete wall over the Battery Park Underpass and raising the existing at-grade site elevation with reinforced concrete wall at Pier A Plaza and The Battery. Our team will also be constructing new tide gate chambers, one at Pier A Plaza and one at Rector Place and re-routing existing utilities along Battery Place. The near surface isolation (NSI) work includes installing new gates within existing regulator structures and pressure proofing and retrofitting interceptor manhole along West Street to prevent storm surges reaching street level. Once major construction is complete, our team will initiate the beautification of Pier A Plaza, The Battery and Rector Place by planting new trees, installing new pavement, furnishings, and lighting. Ozzie offers general oversight and direction of the project team, including overall project governance and decision making. He maintains control of the project budget, schedule, safety, and quality.

VP of Operations/ NYC Borough Based Jail System/ Agency: NYC DDC/ $77M

This design-build project involved comprehensive site clearing, sewer, and utility relocation for the construction of a new detention facility. The scope included the excavation and remediation of hazardous materials and undocumented utilities, the construction of a retaining wall shoring system around the excavation, and major utility relocations. A Hazardous Material Handling and Disposal Plan was developed and implemented in accordance with approved regulatory guidelines.
Ozzie assembled the design-build team using best practices in co-location and collaboration to develop a competitive proposal. Upon contract award, he oversaw the design-build schedule ensured the timely completion of design units, allowing construction to progress efficiently. Additionally, his coordination efforts ensured that the project management team, engineers, subcontractors, and field staff adhered to all regulatory requirements and third-party agency approvals. Ozzie's key contributions for this

particular project included conducting design reviews for geotechnical rock anchor bolt systems, ensuring constructability and compliance with best practices; evaluating and approving various rock removal methods, optimizing efficiency while ensuring alignment with city and state regulations; reviewing temporary sewer placement to prevent rework for future contractors, which improved long-term project efficiency; leading the design review and installation of micropiles, developing construction methodologies and addressing unforeseen subsurface conditions; and reviewing and implementing support of excavation (SOE) designs, ensuring soil stability in critical areas. This design-build project required extensive technical oversight, problem-solving, and proactive coordination to ensure compliance, efficiency, and seamless execution.

Project Executive/ JFK Airport Central Substation #2 / PANYNJ/ $97M

The design-build project encompassed the design, construction, and commissioning of a new 40MVA substation and all associated components to support landside facilities and critical infrastructure. This project ensured a resilient, reliable, and redundant power service, integrating seamlessly with existing facility management systems, buildings, terminals, and other substations. The aesthetic was designed to align with the surrounding infrastructure. Through the design-build process, the project team successfully mitigated substantial delays caused by external factors, ensuring continuity and efficiency. Ozzie's responsibilities included providing senior corporate authority and oversight to ensure project objectives and commitments to stakeholders and the community were fulfilled. From Notice to Proceed (NTP) to project closeout, he served as the central hub of the team, overseeing all aspects of the project with full authority to represent the design-build team. He was the primary point of contact for project stakeholders, responsible for overseeing the overall project schedule, budget management, reporting, forecasting, and compliance with quality, safety, and contractual requirements. He ensured that all project requirements were met, coordinated with all stakeholders, and secured the necessary personnel and capital resources to maintain project milestones and objectives.

Project Executive / Multi-Facility Bridges Goethals Bridge, Outerbridge Crossing, George Washington Bridge, Holland, and Lincoln Tunnel Cashless Tolling Infrastructure via Work Order / PANYNJ / $167M

This design-build project involved major infrastructure upgrades, including the installation of gantries, structural foundations, temporary and permanent traffic signage, as well as civil, power, and communications work. The project facilitated the conversion of conventional tolling operations to open-road cashless tolling, improving traffic efficiency and operational performance. This project was recognized with the 2023 New Jersey's Leading Capital Construction Projects Award and the 2023 ACEC Award for Engineering Excellence. Upon a contract award, the team collaborated with designers to review the project approach and execution strategy. Given the fast-paced nature of the project, design efforts were expedited to prioritize the most efficient construction methods. Ozzie was responsible for design coordination meetings ensured alignment across key project elements, including gantry design, foundation design, and underground grade crossing. His key contributions included modifying foundation, and gantry designs to utilize readily available raw materials while ensuring compliance with fracture critical requirements and revising the construction sequence for roadways and utilities to optimize traffic flow during peak and off-peak hours. This design-build project required strategic planning, proactive coordination, and efficient execution to meet aggressive timelines while ensuring seamless integration into existing infrastructure.

Project Executive / Replacement of Substation 8 & 14 / PATH /$90M

This project requires the replacement of existing Substations No. 8 & 14 located in Harrison/Kearney, NJ. This involved constructing a new two-story steel framed extension to the existing substation. Perform phased decommissioning and removal of existing substation equipment following the installation and commissioning of new replacement substation equipment. Substation 14 is a replacement of an existing substation in which work has to be staged since the current substation will remain active throughout the construction. The work consists of construction of a new two-story steel framed building extension to an existing substation. Substation 8 is a replacement and upgrade located in between active train tracks. The work consists of constructing a new two-story steel framed building founded on a series of 68ea minipiles with pile caps and grade beams. Ozzie implemented value engineering strategies in collaboration to optimize design and eliminate unnecessary elements. He managed all foremen and construction crews to ensure safe, high-quality work in accordance with contract documents. He coordinated with the project manager to align daily construction activities with productivity and schedule goals. The project team worked closely with stakeholders to optimize contract drawings and mitigate schedule and cost impacts through revisions to shop drawings, ensuring alignment with an aggressive construction timeline.

Project Executive/ Tracks G and H Permanent Flood Protection/ PANYNJ/$24M

This project required the installation of a sheet pile and concrete flood wall along commuter train tracks, incorporating a flexible flood barrier over the tracks and a steel flood gate. The scope of work included exploratory trench excavation, vibration and settlement monitoring, installation of steel sheet piles and H-piles, concrete wall placement to the design flood elevation, installation of foundations with incorporated minipiles, installation of a flexible membrane flood barrier system across two sets of tracks, installation of a structural steel flood gate adjacent to the tracks, jet grouting at utility crossings, and restoration of areas adjacent to the flood wall. The 2,700 linear-foot flood wall was constructed adjacent to live train tracks within a narrow roadway between a river and the tracks. Due to the close proximity to the tracks, coordination of track outages was necessary to complete construction. Ozzie collaborated with project stakeholders, successfully redesigning two major components of the project, resulting in significant schedule savings and an enhanced final product.

Position/Assignment for the Project: **Design-Build Project Manager**			
Firm Name:	C.A.C. Industries, Inc.	Total Years of Experience:	29
Name:	**Ertugrul "Alto" Dogan, Assoc. DBIA**	Current Firm:	6
Title:	Sr. Project Manager	Other Firm(s):	23
Degree:	Bachelor of Science	Specialization:	Civil Engineering
Year Earned:	1995	Registration:	

Professional Overview:
Alto brings over 26 years of industry experience, including 16 years as a project manager, leading complex infrastructure projects with a focus on design-build and alternative delivery methods. He has a proven track record of successfully managing high-profile transit and utility projects, demonstrating expertise in early works packages, fast-track project execution, and GMP contract administration. His extensive experience includes managing MTA and NYCT projects, such as the $100M 207th Street Sewer Relocation, the $90M Renewal of Nine Stations on the (IND) Culver Line, and the $385M Sandy Repair and Flood Mitigation of the 207th Street Yard. Alto also brings design-build leadership on projects like the $23M MTA NYCT Elevated Line Structural Rehabilitation and Overcoat Painting of the J-Line.
With DBIA certification and deep expertise in design and construction management, Alto ensures seamless project execution through strategic planning, stakeholder coordination, community engagement and risk mitigation. His leadership guarantees that this DDC Design-Build Deep Sewer Manholes project is delivered efficiently on schedule and within budget, while maintaining the highest standards of safety, quality, and innovation.

Additional/Relevant Certifications:
- Associate DBIA (Design-Build Institute of America) Certification
- OSHA 30 – Expires December 2028
- SSPC Quality Control Supervisor
- SSPC C3/C5 Deleading for Industrial Structures
- MTA NYCT Track Safety Certification
- 40-Hour NYC Department of Buildings Site Safety Manager Training

Experience:
Sr. Project Manager /207th Street Sewer Relocation / MTA C&D / $100M
This project involves the installation of an interceptor sewer pipe using micro-tunneling through jet-grouted tunneling shafts along 10th Avenue and 215th Street, as well as the construction of two (2) Regulators and nine (9) Deep Manholes in the same area. Deep excavations for tunneling shafts/pits and for the construction of Deep Manholes were required. The scope also includes the relocation of private and public utilities, reconnection of yard internal facility drainage to the combined sewer system using new pumping stations, pneumatic ejector pump pits in overhaul and inspection shops, and the lining of existing outfall pipes passing through the yard. Alto led the project from inception to completion, ensuring seamless integration between design and construction teams. He was responsible for managing the team and ensuring all aspects of the project are completed efficiently and accurately. He managed project finances, project schedule, construction activities and operations, safety management, quality management, and all technical aspects. He conducted regular meetings to track progress, resolved issues, and align project goals across all stakeholders including but not limited to NYCT Maintenance of Way, yard overhaul shop personnel, utility companies, DSNY, NYCDEP, NYCDOT and the building owners and business owners within the vicinity of the work.

Sr. Project Manager / Sandy Repair & Flood Mitigation of 207th St. Yard / MTA NYCT/ $385M
This project consisted of constructing land and marine flood walls, installation of king piles, installation of flood barriers and gates around the perimeter of the train yard and at the portal, construction of Relay Buildings A&B, construction of CIH Structures and all related foundation work, including installation of piles and pile caps. Additionally, the project consisted of the complete renovation of signals, track replacement and track power work, electrical, mechanical and communication work. Alto led the design-build project from inception to completion, ensuring seamless incorporation between design and construction teams. He oversaw cost control measures, ensuring the project remained within budget constraints. He developed and maintained project schedules, budgets, and work plans to achieve key milestones. Alto directed daily construction activities, ensuring adherence to safety, quality, and contractual requirements.

Sr. Project Manager / Renewal of Nine Stations on the (IND) Culver Line/ MTA NYCT /$90M
This project consisted of renewal of staircases, control area walls and floors, replacement of pre-cast platform panels, and mezzanine and platform steel repairs. Work also included installation of tactile warning strips, installation of windscreens and artwork, and enhancement of lighting and power for nine (9) stations on the Culver Line, "B" Division (BMT) in the Borough of Brooklyn. The stations were from Ditmas Avenue to Avenue X. Alto led the project from inception to completion, ensuring seamless incorporation between design and construction teams. He oversaw cost control measures, ensuring the project remained within budget constraints. He developed and maintained project schedules, budgets, and work plans to achieve key

milestones. Alto directed daily construction activities, ensuring adherence to safety, quality, and contractual requirements.

Sr. Project Manager / Newburgh-Beacon Bridge Over Hudson River, Superstructure Painting North Span, Phase II – West Abutment to Pier 7 / NYSBA /$20M

This project consisted of structural steel repairs, removal of existing lead-based paint, and application of a new coating system from the superstructure metalwork below and above the roadway level. Alto Facilitated collaboration between design and construction teams to optimize project outcomes. He conducted regular meetings to track progress, resolve issues, and align project goals across all stakeholders. He oversaw cost control measures, ensuring the project remained within budget constraints. He developed and maintained project schedules, budgets, and work plans. Alto directed daily construction activities, ensuring adherence to safety, quality, and contractual requirements.

Sr. Project Manager/ Elevated Line Structural Rehabilitation and Overcoat Painting of J-Line / MTA NYCT /$23M

This project consisted of elevated line structural rehabilitation and elevated line structural steel painting. The structural steel rehabilitation included structural steel repair and/or replacement, column base repair, and repair or replacement mezzanine hangers at all stations along the elevated train line. The structural steel painting included the removal of all lead-based paint and application of three coats of paint on all steel surfaces. Alto directed daily construction activities, ensuring adherence to safety, quality, and contractual requirements. He developed and maintained project schedules, budgets, and work plans.

Project Manager / Overcoat Painting of Elevated Structure Flushing Line / MTA NYCT /$17M

This project consisted of removal of all lead-based paint and structural steel painting of the elevated structure of the train line. Alto was responsible for managing the team and ensuring all aspects of the project were being completed efficiently and accurately. He oversaw cost control measures, ensuring the project remained within budget constraints. He maintained project schedules, budgets, and work plans to achieve key milestones. Alto managed project scope identified and mitigated risks to avoid delays and cost overruns.

Project Manager / High Line Landscaping and Site Work Contract Section I / High Line Site Preparation Contract Section II / NYCEDC /$43M

This project consisted of the final phase in the High Line's transition to a public park, which included the construction of the park landscape. The pathways created from a series of tapered concrete planks, were laid into place above the lower layer of waterproofed concrete, leaving space in between for drainage and electrical conduits. The work also included the site preparation phase of the elevated abandoned railroad structure, including site demolitions, lead paint abatement, storm drainage work, bird deterrent work, steel structure cleaning and rehabilitation, steel painting and coating, site improvements, and appurtenances. Alto was responsible for managing the team and ensuring all aspects of the project were being completed efficiently and accurately. He was responsible for project finances, project schedule, construction activities and operations, safety management, quality management, and technical aspects.

Project Manager / Rehabilitation of the Morgan Draw Bridge / NJTA /$5M

This project consisted of structural steel and concrete rehabilitation, installation of new machinery, lead abatement, and painting of the new elements of the Morgan Draw Bridge over Cheesequake Creek. Alto directed daily construction activities, ensuring adherence to safety, quality, and contractual requirements. He negotiated contracts, change orders, and procurement agreements to optimize project efficiency. He implemented quality assurance and control programs to maintain project standards.

Sr. Project Engineer / New County Road Grade Separation, Roadway, and Structures / NJTA /$19M

This project consisted of construction of multiple elevated approaches leading to 2 single span bridges going over the New County Road and a Railroad. The project also consisted of the installation of culvert and storm water pipes. Alto was responsible for managing all required paperwork related to sheeting, shoring, form designs, and erections. He produced and managed project submittals, shop drawings, and material certifications. Alto also attended monthly progress and change order meetings. He maintained monthly progress billing to owner, and monthly subcontractor pay authorizations.

Project Engineer / Construction of Two AC/DC Converter Stations Located in Long Island and New Jersey / LIPA /$200M

This project consisted of construction of two AC/DC converter stations including control houses and concrete fireproof structures. Alto was responsible for the construction of two control buildings, including architectural, electrical, fire protection, HVAC, water & sewer line, and specialty equipment installation. He managed and coordinated all required submittals, and coordination between the designer, CM and subcontractors. Alto also ensured the control buildings were completed on schedule and received employee recognition for the on-time completion due to the complexity of the project.

Project Engineer / Replacement of Third Ave. Bridge over Harlem River/ NYCDOT/$120M

This project consisted of replacing the swing span bridge, installation and removal of a temporary bridge, and construction of all the approaches lead to the new swing span bridge. Alto ensured the project was constructed safely in accordance with design, budget, and schedule. He set up the base cost and the schedule, performed cost to complete tasks, and reviewed project cost reports. Alto maintained monthly progress billings to the owner, and monthly subcontractor pay authorizations. He oversaw project submittals, shop drawings, QA/QC elements of the work, as well as input preparation of quality work plans and safe work

plans. Additionally, Alto priced, negotiated and processed extra work orders with the owner and subcontractors, and reviewed, negotiated, processed, and approved purchase orders and contracts. He reviewed all labor reports daily and drafted and processed documentation and memo letters to owners, subcontractors and vendors. Alto also attended monthly progress, change order, technical and coordination meetings, and managed the two- and six-week lookahead CPM schedule.

Project Engineer / Newtown Creek, WPC Plant Interim Upgrade-Phase 6 / NYCDEP /$35M

This project consisted of upgrading aeration and sediment tanks, concrete work, and mechanical work including installation of DIP, valves, and instrumentation. Alto ensured the project was constructed safely in accordance with design, budget, and schedule. He set up the base cost and the schedule, performed cost to complete tasks, and reviewed project cost reports. Alto maintained monthly progress billings to the owner, and monthly subcontractor pay authorizations. He oversaw project submittals, shop drawings, QA/QC elements of the work, as well as input preparation of quality work plans and safe work plans. Additionally, Alto priced, negotiated and processed extra work orders with the owner and subcontractors, and reviewed, negotiated, processed, and approved purchase orders and contracts. He reviewed all labor reports daily and drafted and processed documentation and memo letters to owners, subcontractors and vendors. Alto also attended monthly progress, change order, technical and coordination meetings, and managed the two- and six-week lookahead CPM schedule.

Position/Assignment for the Project: **Design Senior Civil Engineer**			
Firm Name:	AECOM	Total Years of Experience:	38
Name:	**Sunil Rajani, PE ENV SP**	Current Firm:	38
Title:	Associate Vice President	Other Firm(s):	0
Degree:	Master of Science	Specialization:	Civil Engineering
Year Earned:	1983	Registration:	074944

Professional Overview:

Mr. Rajani is a Registered Professional Engineer with 37 years of diversified experience in highway design, specification and cost estimates. His responsibilities have included project management, highway design, analysis and design, development of technical drawings and specifications, and preparing proposals for design and construction projects. Mr. Rajani has provided WZTC and MPT plans for numerous NYC Metro area projects for NYCDOT, NYCDDC, NYSDOT, MTA and other local agencies.

Additional/Relevant Certifications:

- ENV-SP

Experience:

Civil Lead/Reconstruction of Forsyth Street Upper Plaza/NYCDDC

Civil Lead for the creation of a new pedestrian plaza at Forsyth Street, adjacent to the existing Manhattan Bridge of-ramp in the Chinatown neighborhood of Manhattan. Worked on the preliminary design of the bikeway alignment, grading, signing and striping and also study of bicycle calming measures. Other improvements include providing stairs to access the upper plaza from the street level as well as ADA accessibility to an enhanced plaza with amenities. Design required coordination with landscape architect, arborist, the design team for the lower plaza improvement, and also various City Agencies. Additional components of the design include preparing schematic geometric layout design, existing conditions review, site layout, drainage and lighting placement.

Lead Civil Engineer/Reconstruction of E92nd Street MTS Ramp/NYCDDC

Lead Civil Engineer for the construction of a new ramp structure over FDR to connect to the Marine Terminal Sanitation facility on E92nd Street. Project currently in final design and includes alignment of the ramp, grading and drainage design for the new ramp, relocation of sewer main and water mains, utilities, MPT, conversion of E92nd Street from one-way to two way street and other civil aspect. Grading challenges included maintaining the minimum clearances over FDR for the new ramp and maintaining traffic on FDR.

Civil Lead/Reconstruction of 33rd Street/NYCDDC

Civil Lead for the final design of the reconstruction of West 33rd Street between 10th and 11th Avenues in Midtown Manhattan. Involved in preparation of pre-final design documents that include changes in vertical alignment and re-grading of the street to comply with approved legal grades (as defined on No. 7 Subway Extension-Hudson Yards Rezoning and Development Program FGEIS). Project requires coordination with various NYC agencies, Hudson Yard Development Corporation and various Utility companies. Other key components of the project include providing access from the new elevated roadway to the five (5) existing building that will remain on the north side of 33rd Street; final design of north side retaining wall; relocation and replacement of the existing utilities, subsurface investigation, street design and preparation of MPT Drawings for the various stages of construction.

Lead Civil Engineer/ Retaining Wall Projects at West Tremont Step Street, 229th Step Street, Bronx Blvd., Cross Island Parkway, Jerome Avenue, Clifford Place Step Street/NYCDDC

Lead Civil Engineer in the design and reconstruction of the retaining wall projects including street reconstruction, drainage design, water main replacements, sewer reconstruction, highway design, guide rail replacement and extensive maintenance of traffic control plans. Tasks include preparation of quantities and specifications.

Project Manager/Reconstruction of Jamaica Greenway Connector-Canarsie Pier Bike Connector/NYCDDC

Project Manager for the Design of the new Bikeway Connector Project. Preliminary tasks performed including Hardware Basin and Tree Survey Reports, Schematic Geometric Design with several Alternatives, Preliminary Design Investigation and preliminary cost estimating. Project is currently in final design including grading, highway geometry, profiles, drainage, street lighting and traffic signal design and MPT. Coordination with various City agencies, subconsultants and private utility companies. Responsible for obtaining permits on the project.

Lead Highway Engineer/Rehabilitation of Belt Parkway Bridge over Gerritsen Inlet/NYCDOT

As Lead Highway Engineer, prepared design report, drawings and cost estimate for various alternate schemes. Prepared highway geometry design and maintenance and protection of traffic drawings for the final design. Performed drainage calculations, reports and drawings for the entire project. Coordinated drainage design with NYCDEP. Responsible for the preparation of the quantity estimates, price analysis, write-up of special specifications and special

provisions. Challenges included maintaining all three lanes of traffic in each direction, including a 3000-foot long approach roadway. Reviewed shop drawings during CSS.

Structural Engineer/Belt Parkway Bridge over Gerritsen Inlet/NYCDOT

Structural Engineer responsible for performing structural and highway design calculations, including design of temporary independent bridge structure, sheet piles, and wingwall analysis using AASHTO and AISC codes, calculations of superelevation, horizontal and vertical alignments, and profiles of roadway. Also performed drainage design and calculations for the complete project. Responsible for the preparation of the quantity estimates, price analysis, write-up of special specifications and provisions.

Lead Civil Engineer/Reconstruction of the 79th Street Rotunda/NYCDOT

Lead Civil Engineer for the replacement of the complex Rotunda project that includes seven bridge structures. Tasks include survey coordination, providing highway geometry, grading, numerous utility design on structure and facility, WZTC, Construction Staging, Sign design, pavement markings, sewer main and water main design including coordination with NYCDEP and permit applications and cost estimating. Drainage design included replacing scuppers, and This project requires coordination with several sub consultant and several agencies. Also, prepared the Design Approval Document Report for the Civil part.

Lead Civil Engineer/Reconstruction of the 5th Avenue Bridge/NYCDOT

Lead Civil Engineer for the replacement of the 5th Avenue Bridge over LIRR and NYCT Sea Beach Line. Project currently in the final design stages. Responsibility includes Survey coordination and review, Construction Sequencing and WZTC plans, grading, drainage and scupper design, alignment, Utility relocation, preparing alternatives for rehabilitation of the bridges, preparation of the DAD report, pavement evaluation, sign survey coordination and inventory and preliminary cost estimate. Mr. Rajani will be responsible for all civil tasks and coordination during final design.

Project Manager/Maintenance and Protection of Traffic Engineering On-Call/NYCDOT

Project Manager for the ongoing task order for the past eight (8) years in providing Maintenance and Protection of Traffic (MPT) and Construction Staging in the development of engineering drawings for Temporary Traffic Control (TTC) zones for safety improvement projects being implemented by NYCDOT crews at multiple locations citywide. Tasks includes preparing engineering drawings, MPT signage, pavement markings and construction staging sequence and sections for specific project sites in accordance with MUTCD.

Lead Civil/Drainage Engineer/I-95/Bruckner Expressway Mobility Studies/NYSDOT

Lead Civil/Drainage Engineer responsible for preparing the complete drainage design report for the NYSDOT In-House Design realignment/widening of the roadway and construction of new ramps for the 2.3 mile stretch of the roadway at the I-95/Pelham Parkway/Hutchinson Parkway Interchanges. Challenges included designing infiltration detention/retention basins, utilizing the wetlands to store water, water quality treatment of the additional volume of water due to increase in impervious area, and drainage design. Performed stormwater calculations and prepared preliminary drainage design of the new roadway. Provided solutions to existing ponding conditions at several low spots within the project area.

Project Manager/Reconstruction of Bedford-Broadway and Putnam Plazas/NYCDDC

Project manager for the reconstruction of the plaza areas to improve pedestrian and vehicular flow and transform into an elegant multi-use public space. Project is in the preliminary design stage and responsibilities include the complete highway design including curb extensions to accommodate the new plaza, water main replacement at Broadway-Bedford Plaza, street lighting design, and geotechnical investigation, which will require coordination with NYC Transit due to a subway tunnel below at Putnam Plaza and subway lines in close proximity at Broadway-Bedford Plaza. These projects involve coordination with local business partnerships, New York City Department of Transportation, New York City Department of Parks and Recreation, New York City Transit Authority, NYCDEP, and community boards, as well as extensive public participation.

Project Engineer/Reconstruction of Gansevoort Street-9th Avenue and Pershing Square/NYCDDC

Project engineer for the Final Design of the reconstruction of Gansevoort/9th Avenue in the Meatpacking District and Pershing Square in Midtown Manhattan. Involved in preparation of design documents; civil design, relocation and replacement of the existing utilities, subsurface investigation, street and plaza design, signing and striping plans and preparation of MPT drawings for the various stages of construction.

Project Manager/East of Hudson Facilities/NYCDEP

Project manager for preparing contract plans, specifications, cross sections, roadwork, profiles, drainage, architectural renovation, mechanical and electrical work for NYCDEP facilities in the East of Hudson District, New York. Attend meetings with client, coordination with different disciplines, preparing bid documents, analyzed bids and providing construction support.

Design Engineer/St. George Staten Island Ferry Terminal Design-Build/NYCDOT

Design Engineer for the rehabilitation and reconstruction of $170 million design-build project including eight (8) vehicular ramps, at grade parking area and redesign of the stormwater and sewer system to bring to current standards. Civil design included alignment, grading of the parking lot, MPT drawings and drainage analysis.

Position/Assignment for the Project: **Design Senior Civil Engineer**			
Firm Name:	AECOM	Total Years of Experience:	25
Name:	**Chanel Lubin, PE**	Current Firm:	19
Title:	Associate Vice President	Other Firm(s):	6
Degree:	Bachelor of Engineering	Specialization:	Civil Engineering
Year Earned:	2005	Registration:	103935

Professional Overview:
Ms. Lubin has over 25 years of experience design and development of a full set of plans for buildings and bridges. Her experience includes performing design and calculations for alignment, profiles, grading, drainage, water main design, conduit layout, developing engineers cost estimates, preparing project specifications and performing various coordination tasks. Ms Lubin also has experience in performing field inspections/investigations and in project scheduling using SureTrak.

Additional/Relevant Certifications:

- LEED AP

Experience:

Civil Design Lead / SUNY College at Old Westbury, NY Alternate Care Facility Design Build / US Army Core of Engineers
Civil Design Lead on responsible for leading the team of 6 civil engineers and serving as a liaison and coordinator between the Contractor and the disciplines for the Old Westbury Alternative Health Care site (4 tents and a gym area). The team was responsible for creating an assessment report for the gym, existing site topographic plans and existing utility plans from as-available records, as well as design coordination with the access roadways (one asphalt paved and one non-paved ring and service roads), signage plans, low level grading walls, site earthwork to support proposed tents and walkways, drainage - underdrains, drywells, and grading, site layout, concrete pads for equipment, oxygen storage areas, fire hydrants (including fire department access), sanitary sewer and water main connections, and preparation of as-builts. All performed remotely with close coordination for the evolving site conditions and on an aggressive 4-week schedule.

Project Manager/Trinity Place Reconstruction/NYCDDC
Project Manager responsible for executing the complete design deliverable for the full depth reconstruction of the roadway of Trinity Place from Morris Street to Cedar Street. The work includes the installation of new roadway pavement, concrete curb, concrete sidewalk; removing debris from the existing drainage structures; installation of new catch basins and catch basin connections; replacement of the damaged frames and covers of the affected City-owned manholes; and removal and storage of traffic and street name signs, and transition to the existing roadways at each end and intersections. The existing MTA subway ventilator grates will also be evaluated and rehabilitated as part of this project.

Project Manager/Construction of the Borden Avenue Pump Station Expansion Sewer and Force Main/NYCDDC
Project Manager responsible for executing the complete design deliverable for the study and design of approximately 2,800 LF of 42” diameter gravity sewer and approximately 4,350 feet of 36” diameter combined sewer force main. The project includes micro-tunneling under Newtown Creek, and hazardous material management and remediation as this is a Superfund Site. Coordination with DEP is ongoing as the pump station needs to remain operational during construction.

Project Engineer/Water and Sewer Pipe or the Queens Boulevard Vision Zero Infrastructure/NYCDDC
Project Engineer designing capital improvements to improve pedestrian safety along the 6.3-mile corridor between Roosevelt Avenue and Jamaica Avenue. These improvements widened the existing service malls to calm traffic and provided a raised bike path, pedestrian walkway, new trees, benches, green infrastructure, and urban art. Street reconstruction and geometric changes were proposed at nine priority intersection and complex locations. Several existing water main and sewer mains were repaired or replaced as part of this contract, and that includes the design and construction staging of the replacement of an existing 72” water main. The project also required coordination and approval from various City Agencies including DEP.

Project Engineer/Montefiore Park and Plaza/NYCDDC
Project Engineer responsible for developing a preliminary and final design for the Montefiore Park and Plaza. This project, as part of the NYCDOT Plaza Program, will completely re-design Montefiore Park and reconstruct Hamilton Place, from Broadway to West 138th Street, to create an adjacent public plaza. This included design of the trunk water main and distribution water main work proposed for the area.

Project Engineer/New Lots Triangle/NYCDDC
Project Engineer responsible for developing a Preliminary and Final Design for New Lots Triangle -This project will create a vibrant focal point and gateway plaza at the New Lots Subway Station. Bounded by two busy commercial streets, the triangular plaza will transform roadway areas under the elevated subway structure into a generous and safe flexible-use zone

for pedestrians. The plan includes new pedestrian lighting, benches, moveable seating, and signage describing the history of the neighborhood. New trees along New Lots Avenue will provide shade for seating areas and a sense of enclosure for the plaza. With more than a third of the plaza area below the elevated structure, careful coordination with MTA was required to accommodate maintenance access while maximizing the potential for pedestrian use. The project was funded through NYCDOT's Public Plaza Program, and coordinated with the New Lots Merchants Association, NYC Parks, NYC Department of Consumer Affairs and NYCDEP.

Project Engineer/Pershing Square West Reconstruction Design/NYCDDC

Project Engineer responsible for creating a pedestrian plaza at Pershing Square on the west side of Park Avenue from 41st Street to 42nd Street, adjacent to the Park Avenue Viaduct, near Grand Central Terminal, one of NYC busiest commercial transportation centers. The project will provide many amenities and will coordinate design with the existing sidewalk cafe that operates during the summer alongside 120 Park Avenue. Amenities to be added include seating, lighting, trees/plants, decorative paving, drinking fountains, bike racks, public art, etc. The preliminary and final phases of the project involve coordinating with NYCDOT, Community Board 5, NYC Department of Consumer Affairs, Public Design Commission, the maintenance partners and stakeholders of the site, as well as the organization of two public workshops and the selection of an artist.

Project Engineer/Reconstruction of 33rd Street/NYCDDC/NYCDOT

Engineering Service Agreement performed field inspections for sewer house connections on 33rd Street, developed Design of proposed sewer system under the proposed grade conditions for 33rd Street, developed plans to relocate water main and fire protection under the proposed conditions for 33rd Street. Developed plans for utility co-ordination under temporary construction conditions particularly for sewer and fire protection facilities. Created, Revised and updated civil engineering plans using AutoCAD. This project includes a detailed under-sidewalk vault investigation (Level I Vault Program) and the preparation of l plans, sections and elevations for each vault (Level II Vault Program). Performed under-sidewalk vault investigation (Level I Vault Program) and assisted on the preparation of l plans, sections and elevations for each vault (Level II Vault Program).

Deputy Project Manager/Reconstruction of Front Street/NYCDOT

Deputy Project Manager responsible for executing the complete design deliverable for the full depth reconstruction of the roadway of Front Street from Old Slip to John Street. The work includes the installation of new roadway pavement, concrete curb, concrete sidewalk; removing debris from the existing drainage structures; installation of new catch basins and catch basin connections; replacement of the damaged frames and covers of the affected City owned manholes; and removal and storage of traffic and street name signs, and transition to the existing roadways at each end and intersections.

Project Engineer/FDR and Harlem River Drive Corridor Riverfront Structures Investigation/NYSDOT

Project Engineer responsible for the preparation and execution of a visual inspection (roadway level and from the water) of the existing conditions, the collection and cataloging of record information and the preparation of a comprehensive report containing a description of the corridor, agency jurisdictions, repair history, current conditions, and a list of locations requiring study or repair in priority order. Also included are an electronic GIS mapping database to graphically show the summary data and the preparation of PS&E package for contract work to perform waterside site inspection of areas along the corridor. A report of the findings was prepared as well as any repair details to resolve flag conditions identified in the areas exposed by the dredging / access contract.

Project Engineer/Rehabilitation of Ramp Structures at the St George Staten Island Ferry Terminal (Design-Build)/NYCDOT

Project Engineer for this extensive ramp rehabilitation design build project responsible for final design for civil engineering tasks including elements of design such as ramp alignment and profile and site grading. Additional responsibilities also included project scheduling and assistance with Design Commission and client presentations.

Civil Engineer/Grand Concourse Underdrains/NYCDOT

Civil Engineer responsible for design calculations underdrain layout design for Grand Concourse. Developed cost estimate for underdrains. Created, revised and updated civil engineering plans using Microstation.

Project Engineer/Belt Parkway Constructability Review/NYSDOT

Engineer responsible for the compilation of data for analysis of constructability plans for Belt Parkway bridges. Performed data analysis and prepared data comparison charts for constructability review. Assisted with development of reports, presentations and deliverables for constructability review.

Project Engineer/Gowanus Expressway QA/QC/NYSDOT

Engineer responsible for coordinating the QA/QC procedures between designers and reviewers for project. Compiled QA/QC documents for record keeping.

Position/Assignment for the Project: **Construction Project Manager**			
Firm Name:	Avila Consultants, Inc.	Total Years of Experience:	25
Name:	**Lucyna Pelc**	Current Firm:	Avila Consultants – 9 yrs
Title:	President, Master Scheduler	Other Firm(s):	Avila Consultants – 13 yrs Independent Consultant – 2 yrs J.A. Jones, Inc – 5 yrs
Degree:	M.S.	Specialization:	Civil Engineering
Year Earned:	2006	Registration:	

Professional Overview:

Lucyna brings over 25 years of expertise in developing detailed cost and resource-loaded ADM and PDM baseline CPM schedules for heavy and building construction projects valued at up to $600 million. Mrs. Pelc-Maj is highly proficient in a range of CPM scheduling software across various platforms, including Oracle Primavera P6, MPI Micro Planner, Microsoft Project, Claris Mac Project, SureTrack Project Manager, Primavera Finest Hour, P3, and ASTA Project. Committed to staying at the forefront of the industry, she continuously enhances her expertise by attending seminars and training programs focused on project management, delay analysis, and advanced CPM scheduling techniques.

Additional/Relevant Certifications:

- CMP Course

Experience:

CPM Scheduling / Fuze Engineering Complex-Picatinny Arsenal/ US Army Corps of Engineers New York District/ $16M

Lucyna's responsibilities included overseeing and managing the scheduling aspects of the project to ensure timely and efficient execution. She conducted monthly CPM updates with resources and cost tracking, and monitoring project schedules to assess progress while proactively addressing delays and contractual scheduling obligations. She developed and maintained detailed cost- and resource-loaded Critical Path Method (CPM) schedules using Primavera P6. She integrated these scheduling tools with Microsoft Excel, Word, and PowerPoint for comprehensive project management and reporting. Lucyna's ensured compliance with contract scheduling specifications and reporting requirements. She collaborated with stakeholders to facilitate communication and alignment on project timelines and critical milestones.

CPM scheduling / Ballistics Evaluation Center Phase III/ US Army Corps of Engineers New York District/ $8M

The work included the installation of bulkheads using tangent O-piles and a combi-wall with tiebacks, floodwall sheets, outfall structures, gates, and esplanade reconstruction utilizing custom precast beams and decks connected with UHPC. The project also involved the construction of a combined sewer overflow system, extensive utility work, coordination with Con Edison for oil static lines, and raising the existing grade by 8-9 feet. This was achieved by mobilizing 400,000 tons of material by barge and unloading with an e-crane. To support the additional fill material, the ground was stabilized using various techniques, including rigid inclusions, wick drains, vibro concrete columns, and static compaction. Three new pedestrian bridges over the FDR Drive were installed, and all existing park features were replaced and upgraded, requiring new site drainage, architectural concrete, park finishes, and extensive landscaping. Anthony oversaw the daily coordination of all site activities and managed all subcontractors. He identified opportunities to implement innovative and creative construction methods, communicated regularly with the Resident Engineer, and addressed quality, safety, and community concerns throughout the project.

Master scheduler/ West Point Middle School Addition & Renovation / US Army Corps of Engineers US/ $26M

A Master scheduler specializing in time impact analysis (TIA) Lucyna was responsible for evaluating and managing project schedules to assess delays and mitigate risks. She conducted comprehensive time impact analysis (TIA) to assess schedule delays and determine their impact on project completion. She analyzed baseline schedules and periodic updates to identify potential risks, critical path changes, and schedule deviations. She maintained thorough documentation of scheduling decisions, justifications, and impact assessments for project records. She assessed project disruptions and incorporated fragnets into schedules to model potential impacts and develop mitigation strategies.

Master scheduler/ Explosive Ordinance Disposal (EOD) Technology Facility/ US Army Corps of Engineers New York District/$25M

Lucyna was responsible for evaluating and managing project schedules to assess delays and mitigate risks. She conducted comprehensive time impact analysis (TIA) to assess schedule delays and determine their impact on project completion. She analyzed baseline schedules and periodic updates to identify potential risks, critical path changes, and schedule deviations. Prepared detailed delay analysis reports using methodologies such as As-Planned vs. As-Built Analysis, Collapsed As-Built Analysis, and Contemporaneous Period Analysis (CPA). She maintained thorough documentation of scheduling decisions, justifications, and impact assessments for project records. She assessed project disruptions and incorporated fragnets into

schedules to model potential impacts and develop mitigation strategies.

Master scheduler/ Hurricane Sandy Coast Storm Risk Management Project/US Army Corps of Engineers/$132.6M

Lucyna was responsibilities included conducting comprehensive time impact analysis (TIA) to assess schedule delays and determine their impact on project completion. She analyzed baseline schedules and periodic updates to identify potential risks, critical path changes, and schedule deviations. She provided expert analysis and recommendations to support claims, negotiations, and contract modifications. Maintained thorough documentation of scheduling decisions, justifications, and impact assessments for project records.

Master Scheduler/Sludge Dewatering Facilities/NYC DEP/$35M

The project involved the renovation of existing digesters, including sealing of liners and roofs, modifying overflow boxes, and making miscellaneous improvements. It also included the replacement of sludge collector mechanisms, pumps, and piping for 10 thickeners, as well as the construction of a new thickener control building. The existing Wiggins gas holding tank was replaced with a new gas holding tank, approximately 50 feet above grade, which was constructed to replace the old tank located in the southwest corner of the facility. The existing gas holding tank remained inactive on the site. Additionally, three new enclosed waste gas burners replaced the existing open waste gas flares. Renovations and replacements of existing sludge storage tanks were completed, including new roofing, roof drains, and miscellaneous mechanical improvements. A 500 kW emergency generator was installed to provide backup power to the digester building. Odor control units were installed on the primary effluent channels. Site work improvements were carried out, including new pipe tunnels, grading, paving, fencing, buried utilities, and landscaping. Lucyna developed and maintained detailed cost- and resource-loaded Critical Path Method (CPM) schedules using Primavera P6. She created baseline CPM schedules and ensured they aligned with project milestones, contract requirements, and resource allocations. Coordinated with project managers, engineers, and subcontractors to ensure accurate scheduling of design and construction activities. Lucyna integrated scheduling data with cost management and risk assessment processes to enhance overall project control.

Master Scheduler/Coney Island WPCP, Brooklyn, NY/NYC DEP/$54M

Lucyna's responsibilities as the master scheduler included developing and maintained the overall project schedule, ensuring alignment with project milestones and timelines. She prepared and updated detailed project schedules using Primavera P6, including critical path analysis and resource loading. She worked with the project team to ensure that all tasks were properly sequenced, and dependencies were met.

Master Scheduler/Flushing Bay Vortex Facility, Queens, NY/NYC DEP/ $33M

Lucyna monitored project progress and identified potential delays or conflicts, implementing corrective actions when necessary. She managed the preparation of look-ahead schedules and provided regular schedule updates to stakeholders. She coordinated with project managers, engineers, and contractors to gather schedule inputs and ensure accurate and timely updates.

Master Scheduler/Reconstruction of Amawalk and Titicus Dams/NYC DEP/$28M

Lucyna conducted monthly CPM updates with resources and cost tracking, and monitoring project schedules to assess progress while proactively addressing delays and contractual scheduling obligations. She integrates these scheduling tools with Microsoft Excel, Word, and PowerPoint for comprehensive project management and reporting.

Master Scheduler/Pine Hill Sewage Treatment Plant/NYC DEP/$30M

Lucyna was responsible for evaluating and managing project schedules to assess delays and mitigate risks. She conducted comprehensive time impact analysis (TIA) to assess schedule delays and determine their impact on project completion. She analyzed baseline schedules and periodic updates to identify potential risks, critical path changes, and schedule deviations. Prepared detailed delay analysis reports using methodologies such as As-Planned vs. As-Built Analysis, Collapsed As-Built Analysis, and Contemporaneous Period Analysis (CPA). She maintained thorough documentation of scheduling decisions, justifications, and impact assessments for project records. She assessed project disruptions and incorporated fragnets into schedules to model potential impacts and develop mitigation strategies.

Master Scheduler/ Solids Handling Facilities Newtown Creek WPCP Plant Upgrade/NYC DEP/$370M

Lucyna developed and maintained detailed cost- and resource-loaded Critical Path Method (CPM) schedules using Primavera P6. She created baseline CPM schedules and ensured they aligned with project milestones, contract requirements, and resource allocations. Coordinated with project managers, engineers, and subcontractors to ensure accurate scheduling of design and construction activities. Lucyna integrated scheduling data with cost management and risk assessment processes to enhance overall project control.

Master Scheduler/ Main Building South Addition Newtown Creek WPCP Plant Upgrade/NYC DEP/$200M

Lucyna worked with the project team to ensure that all tasks were properly sequenced and dependencies were met.

Position/Assignment for the Project: **Construction Project Manager**			
Firm Name:	C.A.C. Industries, Inc.	Total Years of Experience:	27
Name:	**Anthony Monaco, Assoc. DBIA**	Current Firm:	1
Title:	Project Executive	Other Firm(s):	26
Degree:	Bachelor of Science	Specialization:	Civil Engineering
Year Earned:	1998	Registration:	

Professional Overview:
Anthony brings 27 years of industry experience, with a strong background in design-build construction and extensive expertise in heavy civil New York City infrastructure. Some of the projects Anthony has worked on includes a $1.3 Billion NYCDDC East Side Coastal Resiliency Project (ESCRP), as well as other high-profile projects with various agencies. As a construction project manager, he leads project teams to ensure seamless execution, overseeing scheduling, budgeting, and quality control while maintaining strict safety and regulatory compliance. With a deep understanding of design-build methodologies, he excels in pre-construction planning, accelerated project delivery, and GMP contract administration. As a DBIA-certified professional, Anthony leverages innovative problem-solving, collaboration and strategic leadership to drive project success.

Additional/Relevant Certifications:
- DBIA Certification (Design-Build Institute of America)
- OSHA 30-Hour Certification
- OSHA 10-Hour Certification
- 62-Hour NYC DOB SST Supervisor
- 40-Hour NYC Department of Buildings Site Safety Manager Training
- 30-Hour NYC DOB Concrete Safety Manager (2022)

Experience:

Project Executive/Second Avenue Subway Phase 2 Utility Relocation and Building Remediation – 106th Street Station in the Borough of Manhattan/MTA C&D/$115M
This project requires the relocation of critical utility infrastructure throughout the future site of cut and cover tunnels extending the Second Avenue Subway north from 105th Street to 110th Street where previously constructed tunnels exist. In addition, the building foundations along Second Avenue are being structurally strengthened to ensure that they are stable during installation of utilities as well as future excavation for tunnels during contract 2. To achieve this the team is installing structural bracing within the foundations of the buildings as well as installing mini piles with support brackets at several buildings. Anthony is responsible for overseeing the project team, ensuring they have the resources necessary to execute the project. Additionally, he is continually collaborating with the client to develop recovery schedules to address impacts from challenges in obtaining the required access agreements for work along and within the buildings. This requires effective communication amongst all stakeholders and close work with C.A.C. Industries community outreach manager to quickly handle any issues or concerns that may arise.

General Superintendent/East Side Coastal Resiliency Project (ESCRP)/NYCDD/$1.3 billion
The work included the installation of bulkheads using tangent O-piles and a combi-wall with tiebacks, floodwall sheets, outfall structures, gates, and esplanade reconstruction utilizing custom precast beams and decks connected with UHPC. The project also involved the construction of a combined sewer overflow system, extensive utility work, coordination with Con Edison for oil static lines, and raising the existing grade by 8-9 feet. This was achieved by mobilizing 400,000 tons of material by barge and unloading with an e-crane. To support the additional fill material, the ground was stabilized using various techniques, including rigid inclusions, wick drains, vibro concrete columns, and static compaction. Three new pedestrian bridges over FDR Drive were installed requiring frequent nighttime lane closures as well as a full 10-hour weekend closure of the roadway to facilitate bridge erection. Existing park features were replaced and upgraded, requiring new site drainage, architectural concrete, park finishes, and extensive landscaping. Anthony oversaw the daily coordination of all site activities and managed all subcontractors. He frequently met on site with representatives from NYC Parks department and their architects to review progress and quality of construction. Anthony identified opportunities to implement innovative and creative construction methods, communicated regularly with the Resident Engineer, and addressed quality, safety, and community concerns throughout the project.

Senior Project Manager/New Anaerobic Digester Facilities at the Hunts Point Wastewater Resource Recovery Facility/NYC DEP/$309M
The scope of this contract required the construction of four 3.2-million-gallon post-tensioned, cast-in-place concrete digester tanks, an equipment gallery, a gas room, an above-ground digester feed pump station, a guardhouse, and walkway bridges. It also included various system installations, site clearing and excavation, and final landscaping. As Senior Project Manager, Anthony played an integral role in the decision to slipform each of the 90-foot-tall digester tanks. He provided overall direction and supervision for the project, representing the company to the client, partners, and outside stakeholders. Establishing both mid- and long-term project goals for safety, quality schedule and cost, Anthony ensured all safety procedures were in place and followed.

Project Manager/Replacement of Twelve (12) Traction Elevators at 168th Street, 181st Street and 191st Street Stations on the Broadway 7th Avenue Line (IRT)/MTA C&D/$63M

Replaced four traction elevators at three stations along the Broadway 7th Avenue line—168th Street, 181st Street, and 191st Street—along with the existing electrical and HVAC infrastructure in each machine room. As part of the upgrade, structural and architectural repairs were made to the existing elevator shafts and lobby areas. Two of the stations, 168th Street and 181st Street, are listed on the National Register of Historic Places. Original elements of these historic stations were protected and preserved throughout the project. During the project pursuit phase, Anthony developed the construction approach and schedule to effectively remove and replace equipment from the shafts up to 180 feet deep. Upon award, he oversaw all operational and administrative activities, coordinated the sequencing of work for all trades, and provided frequent progress updates to the owner. He ensured that all required construction details were submitted in advance, preventing delays to site activities. Anthony served as the direct point of contact for the project, managing all safety, schedule, quality, and cost-related issues.

Superintendent/Kosciuszko Bridge Replacement/NYSDOT/$500M

The Kosciuszko Bridge Replacement design-build project involved the construction of a modern, more efficient bridge to enhance transportation infrastructure and alleviate congestion. The scope of work included deep drainage installation on wood piles beneath existing utilities under the bridge structure. A new Vortech hydrodynamic separation structure was installed between bridge foundations and directly adjacent to Newtown Creek, requiring precise coordination and execution. The project also encompassed the controlled demolition of the old bridge, including the placement and removal of berms for the felling process. Additionally, the removal of the old bridge towers was meticulously planned and supervised to ensure safety and efficiency. Anthony's responsibilities encompassed overseeing all field operations, ensuring that construction activities were executed safely, efficiently, and in compliance with project specifications. He led coordination between project managers, subcontractors, and field personnel to support schedule adherence and improve workflow. He managed site coordination, sequencing, and resource allocation to maximize productivity while minimizing disruptions. Anthony enforced strict safety and quality control measures, conducting inspections and addressing any issues proactively. He worked closely with engineers and designers to implement value engineering solutions, reducing costs and enhancing constructability. Anthony provided mentorship and leadership to on-site teams, fostering a collaborative work environment to drive project success. He ensured prompt resolution of field challenges, kept effective communication with stakeholders, and upheld the highest standards of excellence throughout project execution.

General Superintendent and Civil Lead/CPV Valley Energy Center/CPV Energy Group/$475M

The project scope included the engineering, procurement, and construction of a new 650 MW energy center in Orange County, NY. The facility featured two 225 MW siemens SGT6-5000F gas turbines and one Siemens SST-5000 steam turbine, along with an induced draft air-cooled condenser. The plant operated on natural gas but could also run on ultra-low sulfur diesel (ULSD) as a backup fuel. The team self-performed civil, mechanical, and structural work, and parts of the electrical scope. Major equipment installations included combustion turbines, the steam turbine, and heat recovery steam generators (HRSGs). Boilermaker work was completed for the cooling towers and HRSGs. Added work included the installation of underground mechanical and electrical systems, heavy lift crane operations, and ground preparations for major equipment placements. Anthony provided overall coordination and leadership for daily construction activities, managing 400 craft workers to ensure seamless execution of the project. He oversaw the review and implementation of design-build documents for all civil, structural and architectural scopes, ensuring compliance with project specifications and quality standards. He also directed the review of underground mechanical and electrical work, coordinating installations to maintain schedule efficiency. Anthony managed and selected all equipment for heavy lift crane operations, overseeing ground preparations and logistical planning for each lift location to improve safety and productivity. His proactive leadership ensured efficient workflow, risk mitigation, and successful project delivery.

General Superintendent/Croton Filtration Project/NYCDEP/$1.4 billion

A state-of-the-art water filtration plant was successfully constructed in Bronx, New York. The project involved building a three-level underground structure using approximately 265,000 cubic yards of reinforced, cast-in-place concrete and 30,000 tons of reinforced steel. The scope of work included the installation of all site utilities, process piping, and advanced process equipment for rapid chemical mixing, filtration, and ultraviolet light treatment. Additionally, a sophisticated digital control system, environmental controls, and site monitoring equipment were furnished and installed to ensure efficient and sustainable plant operations. As General Superintendent, Anthony oversaw all field operations, ensuring seamless coordination between subcontractors and self-performed architectural work. His responsibilities included managing elevator installations, interior finishes, ornamental and structural ironwork, and site work. He provided direct supervision of daily construction activities, ensuring compliance with project specifications, safety protocols, and quality standards. Anthony also facilitated communication and collaboration among multiple prime contractors working on-site, mitigating potential conflicts and optimizing project efficiency. His leadership played a key role in maintaining schedule adherence and delivering a high-quality final product.

Project Superintendent/Paerdegat Basin CSO Project/NYCDEP/$120M

The project involved the construction of a 20-million-gallon capacity sewer system designed to channel storm overflow to previously built 30-million-gallon storage tanks for controlled release during storm events. Additionally, the project included the construction of control buildings housing bar screens, odor control systems, community recreation spaces, and facility offices. The scope of work also encompassed the installation of a green roof and the development of park space within the

surrounding undeveloped property, enhancing both environmental sustainability and community engagement. Anthony's responsibilities included overseeing all day-to-day activities of subcontractors, ensuring efficient coordination with other contractors actively working on-site. He maintained the project schedule, proactively addressing any challenges to keep construction on track. Additionally, he communicated with all stakeholders, providing regular updates and ensuring alignment with project goals, deadlines, and quality standards.

Project Superintendent/Reconstruction of FDR Drive between E 53rd and E 63rd Streets/NYSDOT/$109M

This project involved the reconstruction of a 1.25-mile section of a six-lane, three-level tiered section of the FDR Drive from East 54th to East 63rd Street along Manhattan's East River. The scope of work included bridge and viaduct superstructure replacement, roof structure rehabilitation, retaining and barrier wall rehabilitation, seismic retrofitting, lighting, signage, and drainage improvements. A 3,000-foot temporary two-lane bypass, known as the outboard detour roadway, was constructed to accommodate northbound traffic during the work. Additionally, a 500-meter-long protective shield was installed over the lower roadway to safeguard traffic while construction progressed above. Anthony was responsible for managing and coordinating the daily activities of all craft labor for the reconstruction of a 1.25-mile section of the six-lane FDR Drive. This required thorough knowledge of both New York City and New York State requirements for providing safe work zones with the traffic right of way. Anthony planned and executed several full shutdowns of the FDR Drive to redirect traffic on and off the detour roadway. He also proposed, planned, and implemented around-the-clock operations for the removal of the construction shield within a one-week period to both New York State and New York City DOT, eliminating the need for nightly lane closures that would have significantly impacted the 61st Street exit ramp. He also supervised the replacement of all below-grade drainage systems, including those embedded in rock and located beneath the East River tide level, ensuring seamless integration with the existing infrastructure.

Assistant Superintendent/Fulton Street Transit Center – Dey Street Concourse Structural Box/MTA C&D/$161M

The project involved the construction of a concourse structural box beneath Dey Street as part of the new Fulton Street Transit Center in New York, New York. The scope of work included cut-and-cover tunnel construction, heavy structural steel and concrete work, identification and relocation of existing utilities, extensive underpinning to protect active subway lines and stations, and significant excavation operations. The project required precise coordination to ensure the safety and stability of surrounding infrastructure while maintaining progress on construction activities. Anthony assisted in overseeing daily construction activities, ensuring work was performed safely, efficiently, and in compliance with contract specifications. He monitored the performance and productivity of craft employees, coordinated subcontractor activities, and helped maintain project schedules. Anthony supported quality control efforts by conducting site inspections and addressing any issues to uphold project standards. He also contributed to enforcing safety protocols, facilitating communication between teams, and assisting in resolving on-site challenges to keep the project on track.

Assistant Superintendent /500 MW Combined Cycle Power Plant /NYPA/$334M

The project included the erection of a 97,000-square-foot, two-story building to house critical plant equipment. Crews performed installation and testing of all major equipment, as well as civil, structural, and mechanical work. This included the installation of 110,000 linear feet of process piping and 500 monitoring instruments. Key components of the plant included two advanced gas turbines, a steam turbine, two heat recovery steam generators (HRSGs), an air-cooled condenser, and a chiller plant. The project also encompassed the installation of complex electrical systems, including a digital control system, step-up transformers, and switchgear. The construction and commissioning processes ensured the facility's efficiency, reliability, and long-term operational success. Anthony oversaw the coordination of all crane operations between the HRSG and the stacks, ensuring safe and efficient lifting activities. He managed daily site logistics, supervised and monitored productivity to maintain alignment with the project schedule. Additionally, he collaborated with subcontractors and site engineers to address technical challenges and optimize construction sequencing. Anthony also enforced safety protocols, conducted inspections, and ensured compliance with all quality control standards throughout the project.

Concrete Superintendent/Rehabilitation of Brooklyn-Queens Expressway/NYS DOT/$240M

This project involved the reconstruction of roadways, ramps, and overpass bridges, along with resurfacing and rehabilitation work on streets beneath the main structure. It also involved the reconstruction of the Grand Central Parkway Connector, which links the Brooklyn-Queens Expressway to the Parkway. The work included drilling augured soldier piles, cast in-place concrete pipe piles, and installing miscellaneous timber piles. The project required the procurement, fabrication, and erection of superstructure steel for several overpasses and the flyover connection to the Grand Central Parkway. Additional scope elements included widening travel and shoulder lanes, realigning roadways and ramps to reduce curvature, upgrading drainage systems and utilities, and lowering the elevation of 34th and 35th Avenues. Anthony was responsible for overseeing all concrete work throughout the project. His role required organizing and implementing quality, safety, and logistical measures to ensure the successful placement of roadway pavement, foundations, one- and two-faced walls, and bridge decks. He coordinated with carpentry and reinforcing steel crews to accurately schedule and execute concrete placements, ensuring efficiency and adherence to project timelines.

Position/Assignment for the Project: **Construction Project Manager**			
Firm Name:	C.A.C. Industries, Inc.	Total Years of Experience:	14
Name:	**Mateusz Perzan ENV SP, DBIA Assoc.**	Current Firm:	14
Title:	Superintendent	Other Firm(s):	
Degree:	Bachelor of Science	Specialization:	Civil Engineering
Year Earned:	2010	Registration:	

Professional Overview:

Mateusz is a highly experienced Superintendent with over 14 years in construction, including more than five years leading design-build projects. He has a proven track record of successfully managing large-scale infrastructure projects, particularly with the MTA. Over the past four years, he has overseen the $101 million 207th Street Yard project, which involved complex utility relocations, pile installations, jet grouting, deep excavation, and micro tunneling. Currently, he serves as the lead Superintendent on the $100 million+ Second Avenue project, ensuring seamless execution and project efficiency. In addition, Mateusz has been instrumental in supporting successful delivery of multiple micro tunneling projects, including 96", 60", and 48" tunnels. His expertise spans utility relocation, new installations, road construction, and grade changes, bringing innovative solutions and leadership to every project he manages.

Additional/Relevant Certifications:

- DBIA Associate
- Envision SP (Expires 06/14/2025)
- OSHA 30 (Expires 08/14/2027)
- Site Safety Supervisor (Expires 03/01/2029)
- Site Safety Training (Expires 02/24/2029)
- CPR/First Aid (Expires 04/10/2029)
- NYCT Track Training (Expires 05/2026)
- NGA 40/70/71 (Expires 02/2026)

Experience:

General Superintendent / Reconstruction of Gateway Estates - Phase E/ NYCDDC/ $45M

This project provides new infrastructure, including storm and sanitary sewers on wood piles, drainage systems, water mains, traffic and street lighting, sidewalks, and roadways, for a housing development consisting of 70 "octet" buildings (560 units). The construction takes place on a former landfill site, requiring the removal of 200,000 tons of contaminated soil. Mateusz is responsible for overseeing all field operations to ensure the project is completed safely, efficiently, and on schedule. He manages daily construction activities, coordinates subcontractors and crews, and ensures compliance with safety protocols, quality standards, and project specifications. Mateusz works closely with the project management team to resolve challenges, maintain productivity, and enforce the project schedule.

General Superintendent / East Side Coastal Resiliency / NYCDDC/ $1.3 billion (Total Contract)

This project is part of a federally funded coastal resiliency initiative, raising the entire East River Park by nine feet to protect Lower Manhattan from flooding, as seen during storms like Sandy. The scope of work includes constructing a new seawall/bulkhead, aboveground and buried floodwall, esplanades, swing and roller gates, and upgrading existing power infrastructure, including oil-o-static facilities. Additionally, the project entails a complete overhaul of the combined sewer and sanitary systems, incorporating tide gates and regulators for storm overflow management. Mateusz supervises and coordinates all on-site construction activities to ensure work progresses according to schedule, budget, and quality standards. He directs and oversees subcontractors, laborers, and field personnel to maintain productivity and efficiency. He enforces safety protocols, conducting site inspections, and ensuring compliance with OSHA regulations and project-specific safety requirements.

General Superintendent / 48" Trunk Water Main and 20", 12", 8" Distribution Water Main Replacement in East New York Avenue and Jamaica Avenue, Etc., Borough of Brooklyn / NYCDDC/ $77M

This project includes the installation of 48" trunk water mains, structural rehabilitation of steel trunk water mains, 8", 12", and 20" distribution water mains, combined sewers and basins, traffic signals, street lighting, fire department facilities, pedestrian ramps, and road restoration. The work takes place in locations adjacent to bridges, transit facilities, and major utility corridors, requiring extensive coordination with multiple stakeholders, including utility providers and city agencies. Mateusz reviews work to ensure it meets design specifications, industry standards, and project requirements. He oversees the delivery, inventory, and proper use of materials, tools, and heavy equipment on-site. Mateusz supervises and coordinates all on-site construction activities to ensure work progresses according to schedule, budget, and quality standards.

General Superintendent / Reconstruction of Streets in Rosedale Area – Phase 2 / NYCDDC/ $51M

This project involves the comprehensive reconstruction of streets in the Rosedale area. The scope includes water main and storm and sanitary sewer replacement, installation of new box culverts, access manholes, and chambers, as well as repairs to sidewalks and curbs. Additionally, the project upgrades streetlights, traffic signals, and other critical infrastructure. Mateusz is responsible for overseeing all field operations to ensure the project is completed safely, efficiently, and on schedule. He

supervises and coordinates all on-site construction activities to ensure work progresses according to schedule, budget, and quality standards. He directs and oversees subcontractors, laborers, and field personnel to maintain productivity and efficiency. He enforces safety protocols, conducting site inspections, and ensuring compliance with OSHA regulations and project-specific safety requirements.

General Superintendent / Rehabilitation of Grand Concourse Bridge Over MNRR Hudson Line / NYCDOT / $45M

This project involves the reconstruction of a vital bridge that supports four vehicular traffic lanes, four shoulder lanes, two pedestrian sidewalks, and three railroad tracks. The scope includes the removal and replacement of the existing bridge superstructure, concrete deck, and asphalt overlay, as well as the reconstruction of bridge approach slabs and on-grade approaches. Additionally, deteriorated structures within and beneath the subway system are being replaced to ensure structural integrity. Mateusz is responsible for overseeing all field operations to ensure the project is completed safely, efficiently, and on schedule. He manages daily construction activities, coordinates subcontractors and crews, and ensures compliance with safety protocols, quality standards, and project specifications. Mateusz works closely with the project management team to resolve challenges, maintain productivity, and enforce the project schedule. He maintains detailed records of daily construction activities, progress reports.

General Superintendent /207th Street Sewer Relocation / MTA C&D / $98M

This project involves installing a deep interceptor sewer pipe at various elevations ranging from 32 to 38 feet for a NYCT project, with the ultimate end user being NYC DEP. The installation uses micro-tunneling through jet-grouted pits along 10th Avenue and 215th Street and includes constructing two regulators in the same area. The scope also covers relocating private and public utilities, reconnecting yard internal facility drainage to the combined sewer system with new pumping stations, installing pneumatic ejector pump pits in overhaul and inspection shops, and lining existing outfall pipes passing through the yard.

As a Construction Superintendent, Mat is responsible for managing all foremen and crews to ensure construction activities are executed safely, meet high-quality standards, and comply with contract documents. He closely coordinates general order (GO) work with the MTA, ensuring all operations are conducted safely on and adjacent to active railroads. Working alongside the project manager, Mat monitors daily construction activities to maintain productivity and keep the project on schedule. He prepares and coordinates weekly and monthly look-ahead schedules to effectively plan and organize upcoming work. Mat collaborates with management to secure approvals for all work plans and submittals before execution. Additionally, Mat oversees all subcontractor operations in the field, ensuring proper construction methods are followed. He manages material procurement and delivery schedules to support seamless project execution and works closely with third-party utility companies to facilitate smooth and timely utility relocations.

Site Superintendent / Agreement City of Newburgh North Interceptor Sewer Replacement/ City of Newburgh contracted with Kubricky Construction Corp. /$27M

The project involved constructing a new interceptor sewer ranging from 18 to 48 inches in diameter and spanning approximately 8,500 linear feet, with multiple shafts varying in depth from 25 to 52 feet. The scope of work included installing new manholes, connecting to existing trunk sewers, relocating utilities, site work, traffic control, and bypass pumping. The interceptor sewer was built using both open-cut and trenchless methods, with the trenchless portion completed using micro-tunneling. This included constructing four shafts for jacking and receiving, installing approximately 1,803 linear feet of 48-inch RCP jacking pipe and 36-inch HOBAS carrier piping, which was grouted in place. Additionally, four manholes were installed before backfilling the shafts.

As Construction Superintendent, Mat managed all foremen and crews to ensure construction activities were performed safely, met high-quality standards, and complied with contract documents. He ensured proper maintenance and protection of traffic during ongoing work, minimizing disruptions to the surrounding area. Mat worked closely with the project manager to ensure daily construction activities met productivity and schedule requirements. He prepared and coordinated weekly and monthly look-ahead schedules to effectively plan and organize the work. Mat collaborated with management to ensure all work plans and submittals were approved before execution. He managed all subcontractor operations in the field, ensuring proper construction practices were followed. Mat also ensured that materials were ordered and delivered on time to support project operations. Additionally, he coordinated with third-party utility companies for utility relocations and maintained positive relationships with pedestrians, adjacent building owners, private developers, and local communities.

Superintendent/ Reconstruction of W33rd St between 10th and 11th Av / Related /$25M

The project involved designing and constructing a 15-foot-high GRES wall to create temporary site access while installing street utilities and raising the roadway by 12 feet to align with future redevelopment. The work was executed on an extremely tight schedule, as it was critical to the overall development. The project scope included relocating and replacing utilities such as water mains, gas mains, electrical systems, telecommunication systems, a 32-foot-deep sewer replacement, and multiple sewer connections for future structures. Catch basins were installed, and extensive roadway and sidewalk reconstruction was completed at the new grade, along with traffic signal installation.

The project required critical coordination with third-party entities to ensure proper utility integration and construction sequencing. Additionally, the team was responsible for designing, excavating, and constructing both temporary support and final foundation, as well as the pedestrian tunnel for the future subway passageway. The project also included designing and constructing temporary and permanent foundation systems, which incorporated minipile foundations. The support of excavation and permanent foundation design accounted for an adjacent gantry crane elevator with a platform. A new permanent abutment was constructed to support the viaduct, along with a new approach slab for the future development.

As Construction Superintendent, Mat successfully negotiated all lump sum interference items between service providers. He

coordinated field operations with a private developer, city agencies, and utility companies to execute the grade raising while ensuring the protection and maintenance of all below-ground utilities. He managed foremen and crews, overseeing all construction activities to guarantee safety, high-quality workmanship, and adherence to contract documents. Working closely with the project manager, Mat ensured that daily construction activities met productivity and schedule goals. He also prepared and coordinated weekly and monthly look-ahead schedules to effectively plan and align work operations. Mat collaborated with management to secure approvals for all work plans and submittals before execution. Additionally, he ensured that all materials were ordered and delivered on schedule to support ongoing operations.

Superintendent / Safe Routes to Transit Phase 2 / NYC DDC /$3M

The project involved extensive utility relocations and sidewalk expansions to ensure ADA accessibility at road and sidewalk intersections near the White Plains Road line at Allerton Avenue and 219th Stations. The work included relocating water mains, gas mains, electrical, and telephone utilities. New manholes were constructed and installed on existing sewers under an NYCT elevated subway, along with new catch basins. Several roadways underwent milling, repaving with 6F asphalt, sidewalk reconstruction, and traffic signal installation to meet ADA standards.

Critical coordination with third-party utility providers was required to facilitate seamless execution. All work was performed adjacent to an elevated transit line, involving both above-ground and underground operations in close proximity to the structure. The scope included water main installation, catch basin and sewer manhole installation, utility relocations (electric and gas), new traffic signals and conduit installation, curb and sidewalk installation, and full road reconstruction.

As a Construction Superintendent, Mat successfully managed all foremen and crews, overseeing construction activities to ensure work was performed safely, met high-quality standards, and complied with contract documents. He ensured proper maintenance and protection of traffic during ongoing work, maintaining a safe and efficient job site. Working closely with the project manager, Mat monitored daily construction activities to meet productivity and schedule requirements. He prepared and coordinated weekly and monthly look-ahead schedules to effectively plan and align work operations. Mat collaborated with management to secure approvals for all work plans and submittals before execution. He also managed subcontractor operations in the field, ensuring all work was constructed according to specifications. Additionally, he coordinated material orders and deliveries to support project timelines and worked closely with third-party utility companies to facilitate seamless utility relocations in the field.

Superintendent / Reconstruction of College Pt. Blvd. / NYC DDC/$15M

This project involved the replacement and relocation of numerous utilities along a major thoroughfare in Queens, spanning approximately one mile on College Point Boulevard, as well as extensive utility and road reconstruction along 32nd Avenue. Multiple intersections were reconstructed to ensure ADA compliance in this heavily trafficked area, and the first-ever concrete milling and I-4 asphalt resurfacing were utilized. Cast-in-place roadway panels were replaced along College Point Boulevard to meet state agency specifications. Utility relocations included water mains, gas mains, electrical systems, sewer replacements, and telephone lines. Additionally, new telephone lines and catch basins were installed alongside extensive roadway and sidewalk reconstruction. Critical coordination was required with third-party utility providers to facilitate seamless execution. Coordination with transportation agencies ensured proper roadway closures and traffic management. Maintaining and protecting traffic was essential to making sure the timely and safe completion of work, which was carried out on an extremely tight schedule requiring both day and nighttime work, as well as weekend operations. The project scope included both above-ground and underground work, such as water main installation, sanitary sewer replacement, utility relocations, new traffic signal and conduit installations, curb and sidewalk installations, road reconstruction, concrete pavement milling, and the installation of I-4 asphalt. Mat oversaw all foremen and crews, ensuring construction activities were executed safely, met high-quality standards, and adhered to contract documents. He maintained and enforced proper traffic maintenance and protection while work was ongoing to ensure a safe and efficient job site. Collaborating closely with the project manager, he monitored daily construction activities to meet productivity goals and project schedule requirements. Mat prepared and coordinated weekly and monthly look-ahead schedules to facilitate effective planning and workflow coordination. He worked with management to secure approvals for all work plans and submittals before execution. He managed all subcontractor operations in the field, ensuring work was constructed according to project specifications. Additionally, he oversaw material procurement and deliveries to align with project timelines. His role also required working closely with third-party utility companies to coordinate seamless utility relocations in the field.

Superintendent/ Central Maintenance North Facility on Randall's Island / TBTA /$1.2M

This project was completed at a maintenance facility for the RFK Bridge, involving extensive site work around the newly constructed facility and the bridge itself. The scope of work included the installation of a new water main, sanitary sewer connection, high-pressure gas main, curbs, sidewalks, new sub-base, and asphalt pavement. A significant portion of the work was performed adjacent to the RFK Bridge's elevated structure, requiring precise coordination and execution to ensure safety and compliance with project specifications. Mat managed all foremen and crews, ensuring construction activities were executed safely, met high-quality standards, and followed contract documents. He oversaw the maintenance and protection of traffic while work was ongoing, ensuring a safe and efficient job site. Working closely with the project manager, he monitored daily construction activities to meet productivity goals and project schedule requirements. Mat prepared and coordinated weekly and monthly look-ahead schedules to facilitate effective planning and workflow coordination. He collaborated with management to secure approvals for all work plans and submittals before execution. He managed all subcontractor operations in the field, guaranteeing work was constructed according to project specifications. Additionally, he coordinated material procurement and deliveries to align with project timelines. His role also required close coordination with third-party utility companies to facilitate seamless utility relocations in the field.

Position/Assignment for the Project: **Design Senior Civil Engineer**			
Firm Name:	AECOM	Total Years of Experience:	48
Name:	**Paul Aviza**	Current Firm:	39
Title:	Vice President	Other Firm(s):	9
Degree:	Bachelor of Science	Specialization:	Civil Engineering
Year Earned:	1975	Registration:	063106

Professional Overview:
Mr. Aviza is a Senior Project Manager with extensive experience in civil engineering/sitework design, including grading and drainage, utility design and coordination, roadway/pavement design, permitting, and agency coordination for numerous projects.

Additional/Relevant Certifications:

- DBIA, LEED AP BD+C

Experience:

Senior Civil Site Lead/Borough Based Jails DB/NYCDDC/$8.7B
Senior Civil Site and Utility Design Lead on the Bronx Site Preparation Contract. New York City has committed to closing the jails on Rikers Island and building a network of smaller, safer and fairer borough-based jail facilities that are grounded in dignity and respect, offering better connections to and space for families, attorneys, courts, medical and mental health care, education and therapeutic programming. The new facilities must realize the program values through innovative and high-quality design that will foster safety and wellbeing for those incarcerated, their families and for staff, through normalized environments.

Project Manager/Design Services Requirements Contract/NYCDDC
Project Manager for this on-call contract to provide various engineering services, including preliminary and final design of highways, sewers, water mains, retaining walls, drainage studies, traffic studies and signal design, street lighting, geotechnical investigations, hazardous waste and site contamination investigations and urban design services. Under this contract, supervising the following assignments: Preliminary Design Services for Reconstruction of Worth Street from Hudson Street to Park Row in Manhattan, Preliminary Design Services for Reconstruction of the Hollers Avenue Area in the Bronx and Emergency Repair of the Retaining Wall on Riverdale Avenue and 232nd Street in the Bronx.

Senior Civil Lead/Reconstruction of 9th Avenue/Gansevoort Area/NYCCDC/$16.7M
Senior Civil Lead responsible for design oversight and constructability reviews on the preliminary and final design, as well as construction support services, for the Reconstruction of 9th Avenue (Between West 16th Street and Gansevoort Street), Gansevoort Street (Between 9th Avenue and Hudson Street) Hudson Street (West 14th Street) in Manhattan. This project brought the significantly deteriorated roadway and sidewalks to a state of good repair; improved safety, mobility and access for all travel modes; created permanent public spaces; enhanced the connectivity of the citywide bike network; and created an improved walking and public space experience. The project blended two distinct areas, Chelsea and Meatpacking District, an example of the City's comprehensive approach to street design.

Project Manager/149th Street Reconstruction/NYCDDC
Project Manager for the design of 0.7 miles of urban street design, site improvements, traffic studies, public and private utility relocation for the New York City Department of Transportation. Work was on 149th Street from Exterior Street to A.J. Griffin Place in the Borough of the Bronx. Coordination with public and private utilities (including Section U and CET related items) and regulatory agencies was required.

Senior Civil Designer/Preliminary and Final Design Services for the Reconstruction of Queens Boulevard/NYCDDC/$40M
Senior Civil Designer responsible for Quality Control and constructability reviews on this $40M program for the preliminary and final design of the 6.2-mile reconstruction project along Queens Boulevard. The Design Team is comprised of seven subconsultants to efficiently complete this high-profile project. The project will make permanent the interim geometric modifications developed for the operational design of Queens Boulevard, between Roosevelt Avenue and Jamaica Avenue. It will widen the existing service malls to calm traffic and provide a raised bike path, pedestrian walkway, new trees, benches, green infrastructure, and urban art. Bus stops will also be considered for relocation to the mainline, if possible. In addition, street reconstruction and geometric changes are proposed at nine priority intersection and complex locations. This project also includes the design and construction staging of the replacement of an existing 72" water main.

Senior Civil Designer/Reconstruction of Front Street/NYCDDC
Senior Civil Designer for the full roadway reconstruction project of Front Street between Old Slip and John Street. The project reconstructs the roadway and sidewalks that were damaged because of Superstorm Sandy. This project required extensive coordination with the property owners, NYC LPC, NYCT, and NYCDOT, and the Community Board.

Senior Civil Designer/Trinity Place Reconstruction/NYCDDC
Senior Civil Designer responsible for Quality Control and constructability reviews for the full depth reconstruction of the roadway of Trinity Place from Morris Street to Cedar Street. The work includes the installation of new roadway pavement, concrete curb, concrete sidewalk; removing debris from the existing drainage structures; installation of new catch basins and catch basin connections; replacement of the damaged frames and covers of the affected City owned manholes; and removal and storage of traffic and street name signs, and transition to the existing roadways at each end and intersections. The existing MTA Subway Ventilator Grates will also be evaluated and rehabilitated as part of this project.

Senior Civil Designer/Reconstruction of Pershing Square West/NYCDDC
Senior Civil Designer responsible for creating the alignment and sewer designs for the pedestrian plaza at Pershing Square on the west side of Park Avenue from 41st Street to 42nd Street, adjacent to the Park Avenue Viaduct, near Grand Central Terminal. The project provided many amenities and will coordinate design with the existing sidewalk cafe that operates there during the summer. Amenities to be added include seating, lighting, trees, plantings, a rain garden, decorative paving, and a drinking fountain.

Project Manager/Hylan Boulevard, Rockland Avenue, Bolton Avenue, 49th Street and Ivan Court - Preliminary Design Investigation Report/NYCDDC
Project Manager for the development of task order assignments, including schematic designs, agency coordination, traffic and roadway design improvements, tree and utility inventories, and other street design tasks associated with the preparation of preliminary design reports.

Project Manager/Northern Boulevard Street Improvements/NYCDOT
Project Manager for final design of 2.2 miles of roadway widening, including traffic signals, storm sewers, channelization, signalization, and utility adjustments for the NYCDOT. Coordination of multiple private and public utility companies and city and state agencies was required.

Senior Civil Designer/Reconstruction of Montefiore Park and Plaza/NYCDOT
Senior Civil Designer responsible for the constructability review and utility design for this complete redesign of Montefiore Park. The project is bounded by Broadway (West 136th Street and West 138th Street), Hamilton Place (West 136th Street and West 138th Street), and West 138th Street (Broadway and Hamilton Place). In addition, AECOM (Legacy URS) designed the replacement and relocation of a trunk main and distribution water main within the project limits on Broadway, Hamilton Place, and West 138th Street Extensive coordination required both during design and construction with NYCT due to the water main being replaced over the 137th Street subway station and the maintenance of access to the station during construction.

Project Engineer/Technical Reviewer/Bruckner Boulevard (Unionport Bridge) over Westchester Creek/NYCDOT
Project Engineer/Technical Reviewer, performed civil engineering independent technical reviews and incorporation of design improvements. Work included the construction of a bascule bridge and approach roadways over Westchester Creek between Zerega Avenue and Brush Avenue for NYCDOT. Work included roadway alignment, grading and drainage, traffic signing and striping, utility and water main/sewer work, maintenance and protection of traffic and agency coordination. This project also involved design of retaining walls.

Project Engineer/Technical Reviewer/Grand Concourse over 161st Street/NYCDOT
Project Engineer/Technical Reviewer, performed civil engineering independent technical reviews and incorporation of design improvements during construction. Work included the construction of Grand Concourse from East 160th Street to East 167th Street and on 161st Street from Gerard Avenue to Grand Concourse for NYCDOT including roadway alignment, grading and drainage, sewer work, maintenance and protection of traffic and agency coordination.

Project Manager/Clearview Expressway/24th Avenue Pumping Stations/NYCDEP
Project manager for the rehabilitation of below ground sanitary pumping stations and 2,400 ft. of force main replacement in Bayside, Queens for New York City Department of Environmental Protection. Work includes flow determination, facility planning, preparation preliminary and final design contract documents and design services during construction. Work also includes preparation of an Environmental Assessment Statement, coordination with various utilities and agencies, temporary pumping studies and economic evaluations.

Civil Discipline Lead/Improvements to Hillview Reservoir/NYCDEP
Work included the investigation and preliminary plan preparation of the implementation of a fabric roof over the 90-acre reservoir located in the NYCDEP, Bureau of Environmental Engineering. Also included was the subsurface investigation program, topographic and utility survey, environmental impact assessment and feasibility and preliminary design of impact to roof runoff on existing facilities. Impact of the proposed construction on the existing service roads was also performed. Site grading and preliminary design of storm sewers was performed. Also responsible for the coordination of the topographic survey and preparation of the utility plans. Prepared hydraulic calculations and design of a perimeter storm system and preliminary design of on-site detention systems. Coordinated permit work associated with the preliminary design improvements.

Position/Assignment for the Project: **Construction Project Manager**			
Firm Name:	Ivy Engineering Group	Total Years of Experience:	14
Name:	**Samira Ayati, P.E., DBIA, ENV SP**	Current Firm:	3
Title:	QA/QC	Other Firm(s):	11
Degree:	M.S., B.S.	Specialization:	Civil Engineering, Construction Management
Year Earned:	2013, 2011	Registration:	Professional Engineer, NY, NJ, FL, VA, DC,/ Designated Design-Build Professional

Professional Overview:
Samira Ayati is a licensed Professional Engineer with over fourteen years of expertise in overseeing construction management projects of varying size and complexity. As a Quality Assurance/Quality Control Manager, she ensures strict adherence to quality standards, cost efficiency, and effective staffing. She applies her extensive construction management experience across multiple civil engineering disciplines, including civil, park, environmental, and infrastructure improvement projects throughout New York. With a strong focus on compliance and precision, she plays a critical role in delivering high-quality, well-executed projects.

Additional/Relevant Certifications:

- NYCDEC Erosion & Sediment Control Training
- OSHA 30-Hour & 10-Hour Certification
- OSHA Confined Space Entry Certification
- DDC Water Main Training
- 2022 NYC Construction Codes Training: NYC Plumbing Code Revisions (Part 1)
- New York 811 Excavator Training & Education Program (2022)
- LIRR Safety and Roadway Worker Protection (RWP) Training
- Amtrak Engineering Contractor Orientation

Experience:

Construction Manager At-Risk (CMAR), Assistant Project Manager/ Sawtooth Bridges Replacement, New Jersey/ AMTRAK/$1.6 billion
This project focused on replacing the deteriorating and structurally deficient Sawtooth Bridges. The project involved constructing three new bridges to realign and expand track capacity, ultimately restoring train speeds to 90 mph and enhancing overall service reliability. Samira coordinated with key project partners, including federal and state transportation agencies, the contractor team, designers, and the independent cost estimator. Her role ensured compliance with project specifications, industry standards, and regulatory requirements through rigorous quality assurance and quality control processes. She also managed construction oversight, risk mitigation, and stakeholder coordination to facilitate smooth project execution. The Sawtooth Bridges Replacement Project was a significant infrastructure improvement that enhanced capacity, reduced service disruptions, and ensured the long-term sustainability of one of the nation's most critical transportation corridors.

Quality Control Manager/East River Tunnel Rehabilitation/AMTRAK/$800M
The Construction Management team provided oversight for the East River Tunnel (ERT) Rehabilitation Project, demonstrating expertise in managing critical infrastructure projects. This project was essential for maintaining the operational continuity of a major Northeast Corridor rail system, as well as regional transit services, highlighting the team's capability in handling large-scale urban infrastructure rehabilitations.
The ERT project spanned approximately 2.5 miles from Manhattan's Penn Station to Sunnyside Yard in Queens and involved intricate internal refurbishments of the tunnel to enhance safety, reliability, and service capability. The team's role in this high-profile initiative demonstrated proficiency in coordinating and executing complex engineering tasks within the challenging environments of major rail systems. As the quality control manager, Samira was responsible for ensuring that all construction activities adhered to project specifications, industry standards, and regulatory requirements. She was actively involved in key aspects, including staffing the project, overseeing invoices, and ensuring effective management throughout.

Resident Engineer/ High-Level Storm Sewers, Storm, Combined Sewers, and Water Main Work in Fresh Creek Basin Area, Phase 2A/NYCDDC/$35M
The project aimed to reduce CSO discharges to Fresh Creek Basin by 230 MG/year. The reduction of flow to existing combined sewers also decreased the load during wet weather at the 26th Ward Wastewater Treatment Plant. The scope included the installation of 1.5 miles of new sanitary and storm sewers and 0.1 miles of watermain replacement. The work involved installing a high-level storm sewer (HLSS) system, an HLSS outfall, and the replacement or installation of new separate storm sewers, combined sewers, sanitary sewers, and water mains. The local combined sewer system was frequently unable to handle the volume of stormwater it received during storm events, and the lack of hydraulic capacity contributed to CSO discharges into

Fresh Creek. Additionally, the project included the removal of rubble, debris, and invasive species from an approximately 37,107-square-foot area, along with planting native tidal wetland vegetation and coastal upland species as part of a tidal wetland restoration and mitigation effort. Samira provided construction inspection and community liaison services, overseeing inspection, management, coordination, and administration of the project from commencement through substantial completion, final acceptance, and project close-out. She ensured that all construction activities adhered to project specifications, industry standards, and regulatory requirements. She coordinated with contractors, stakeholders, and community representatives to address concerns and facilitate smooth project execution. Samira also monitored construction progress, documented field conditions, and provided quality assurance to ensure compliance with contract documents. Her role included reviewing project schedules, tracking milestones, and assisting in resolving any field-related challenges to maintain efficiency and project timelines.

Resident Engineer/ Rehabilitation of Pedestrian Ramps in Bronx, NY/NYCDDC/$6.7M

The project involved the repair and upgrade of over 600 pedestrian ramp corners at various locations in the Bronx, ensuring compliance with ADA specifications to the maximum extent feasible. The work included inspection, management, coordination, and administration from commencement through substantial completion, final acceptance, and project close-out. Samira ensured that the contractor maintained a safe and functional work environment during construction, verifying that all temporary construction signs and barricades were properly placed for public safety. She inspected concrete work, including ADA-compliant pedestrian ramps, sidewalks, and steel-faced concrete curbs. Additionally, she conducted a tree survey alongside the Master Arborist to identify trees within the work zone that required pruning or construction fencing for protection.

Resident Engineer/185th Street Streetscape Improvements, New York, NY/NYCDDC/$8.2M

The project involved converting an existing makeshift plaza into a fully designed public space, consisting of several small and large gathering areas that allowed students and the local community to gather in social groups. The work included the installation of water mains, catch basins, fire hydrants, utility work, street lighting, traffic light installation, an emergency services box, and various greenery and furniture to enhance the plaza's aesthetics and functionality. Samira was responsible for providing close-out services, including final overruns and underruns, agency sign-offs, inspection of the final punch list, change orders, final payment to the contractor, final acceptance letters, a post-construction report, and as-built drawings.

Resident Engineer/ Safe Route to Schools, New York, NY/NYCDDC/$4M

The construction project involved the installation of a water main, sewer, curb extensions, bus pads, pedestrian ramps, sidewalks, pavement markings, fire alarm facilities, street lighting, and traffic signal work for the improvement of sidewalks around various schools. Samira was the resident engineer where she was responsible for supervising construction, managing the REI staff, and ensuring the completion of the contract on schedule and within budget. She provided technical engineering support, coordinated between contractors, city agencies, schools, the community, and stakeholders, and oversaw contractors' partial, substantial, and final payments. She also submitted the required documents to relevant agencies per federal and state guidelines.

Quality Control Manager/On-Call Construction/NYC Department of Parks and Recreations/$15M

This project involved construction or reconstruction of various park facilities, structures, and tree planting. The work entailed overseeing the contractor for all construction-related matters and facilitating coordination between the general contractor and the design engineer on design-related issues to ensure the timely and cost-effective completion of the project. Samira was involved with all aspects of the contract, including the submission of technical and fee proposals for task orders and managing staff on each project. She also provided field inspection services required for the construction.

Resident Engineer/Merrick Road over Milburn Creek Bridge, Baldwin, NY/NYCDPW/$2.43M

The project involved the rehabilitation of two approximately 280-foot-long culverts that supported Merrick Road, which carried Milburn Creek from Milburn Pond to Baldwin Bay. The culverts required rehabilitation due to cracking and spalling deterioration, including areas where the reinforcement had been exposed. Construction work included concrete repairs, riprap replacement, removal of pavement and soil to expose, inspect, and repair the top slab of the structure, application of a waterproof membrane, and reconstruction of the roadway, curb, sidewalk, and parking lot within the excavation limits of the culvert work. Additionally, a temporary driveway access to the parking lot was installed, and the adjacent facilities building was protected during construction. Samira’s responsibilities included general construction administration; ensuring erosion and sediment control; quality assurance; documentation compilation; scheduling and conducting weekly meetings; preparation of bi-weekly project reports; and monitoring each contractor’s safety program.

Assistant Resident Engineer/Long Beach Road Bridge and Structural, Long Beach, NY/NYCDPW/$190M

The project involved a limited emergency evaluation of several red and yellow flag conditions identified during bi-annual inspections of the bascule bridge and the development of design alternatives to extend the service life of the structure. The investigative study included non-destructive inspection of specific structural members of the bascule spans, such as bascule girders, floor beams, stringers, and their associated connections, along with a limited inspection of railings. Project tasks included in-depth inspection, analysis of recorded surveys, and load rating analyses. Based on these investigations, design alternatives were developed for the repairs of the identified damaged areas. A comprehensive report was prepared that included photos, sketches of the proposed work, a cost comparison of alternatives, and a recommendation of the most cost-effective alternative. Design documents detailing the emergency structural repairs, including design drawings, details, notes, and maintenance and protection of traffic schemes, were prepared and issued to the county's on-call contractor. Samira's responsibilities included assisting with general construction administration, ensuring erosion and sediment control, and providing quality assurance. She compiled documentation, scheduled and conducted weekly meetings, and prepared bi-weekly project

reports. Samira also monitored each contractor's safety program and supported the coordination of tasks between project stakeholders.

Project Manager/ Capital Maintenance, and Repair/BPCA/$400,000

The project involved various construction and capital maintenance repair projects. Major work items included demolition, playground improvements, bulkhead repairs, concrete work, masonry paver work, granite work, demolition of paving and concrete slabs, excavation, disposal of construction waste, foundation construction, electrical work, sculpture placement, pulling of permits, and fabrication and installation of signs at specific locations. Samira's role as project manager for this job encompassed all technical disciplines associated with construction management, including bid preparation, contractor procurement, constructability analysis, peer review, budgeting, construction field oversight and management, scheduling, inspection, change order preparation and negotiation, cost estimating, and other related services.

Position/Assignment for the Project: **Construction Project Manager**			
Firm Name:	C.A.C. Industries, Inc.	Total Years of Experience:	20
Name:	**William "Bill" Flaherty, CHST**	Current Firm:	1
Title:	Safety Director	Other Firm(s):	19
Degree:	AAS	Specialization:	Mechanical Engineering Technology
Year Earned:	1992	Registration:	

Professional Overview:

Bill brings over 20 years of experience in construction safety, with expertise spanning all phases of building construction and renovation, from pre-planning to project completion. He possesses in-depth knowledge of OSHA Construction Regulations (1926), safety best practices, and confined space entry procedures, ensuring a proactive approach to risk mitigation and compliance. His project portfolio includes high-rise residential and office buildings, rail systems and transportation centers, parking garages, data centers, hospitals, and other complex infrastructure projects. Bill drives safety compliance throughout all construction phases, leading pre-job safety planning and meetings, conducting job hazard analyses, facilitating onsite safety meetings and training, and overseeing multi-employer site responsibilities and wrap-up (OCIP) programs. In NYC, he ensures strict adherence to key regulations, including NYC DOB Chapter 33: Safeguards During Construction or Demolition, NYC Fire Code Chapter 14: Fire Safety During Construction and Demolition, Development and implementation of Maintenance and Protection of Traffic (MPT) plans in alignment with MUTCD Part 6 – Temporary Traffic Control. Bill's leadership in safety management fosters a culture of accountability, reducing risks and enhancing overall project efficiency.

Additional/Relevant Certifications:

- Construction Health and Safety Technician (CHST) – Ensuring the highest standards of workplace safety and risk management.
- First Aid/CPR/AED Instructor | American Red Cross – Equipping teams with life-saving emergency response skills.
- OSHA Authorized Construction Trainer | Atlantic OSHA Training Center – Delivering essential safety training to construction professionals.
- Construction Site Fire Safety Manager (S-56) | NYC Fire Department – Managing fire safety protocols on complex construction sites.
- NYC-DOB Approved 40-Hour Site Safety Manager Course | Total Safety Consulting – Ensuring compliance with NYC Department of Buildings safety regulations.
- Forklift Trainer | American Safety Training, Inc. – Providing specialized training in equipment operation and site safety.

Experience:

Safety Manager/South Battery Park City Resiliency Project/ Battery Park City Authority /$74M

This project improves strength by installing a comprehensive flood barrier system to safeguard critical infrastructure. The work includes demolition, re-grading, and reconstruction of specified landscape elements, ensuring both functionality and aesthetic integration. The flood barrier system consists of deployable flip-up gates, reinforced concrete walls to raise site elevation, and exposed flood walls spanning the Battery Tunnel Underpass and the Brooklyn Battery Tunnel, providing robust protection against potential flooding events. Bill is responsible for overseeing all health and safety activities on-site, ensuring compliance with safety regulations and best practices. His role includes conducting site audits, accident reporting and investigations, reviewing safety-related submittals, and making sure all work adheres to project safety requirements. Bill plays a key role in maintaining a safe and secure work environment.

Safety Manager/ Second Avenue Subway Phase 2 Utility Relocation & Building Remediation / MTA – New York City Transit /$116M

The project is a necessary infrastructure initiative supporting the expansion of New York City's transit system. The project involves extensive utility relocation, including sewer, storm drain, water, electrical, gas, and telecom systems, ensuring the seamless integration of new subway infrastructure. Additionally, the project requires the removal, relocation, and modification of street and sidewalk furniture, such as traffic signals, streetlights, trees, sidewalk vaults, and cellars, to improve urban accessibility and accommodate future transit developments. Comprehensive remediation, protection, and underpinning of existing buildings, preserving structural integrity while construction progresses. As safety manager, Bill oversees all health and safety activities, ensuring compliance with strict site requirements. His role includes conducting site audits, managing accident reporting and investigations, reviewing safety-related submittals, and administering the project's safety program.

Safety Manager/East Side Coastal Resiliency Project (ESCR)/NYCDDC/$275M

The East Side Coastal Resiliency (ESCR) Project is a transformative infrastructure initiative designed to protect Lower Manhattan from coastal storms and rising sea levels while enhancing community access to improved recreational spaces. As a Joint Venture member, CAC Industries plays a key role in the construction of a comprehensive flood protection system, which includes floodwalls, closure structures, transition retaining walls, and swing and roller-type gates. A centerpiece of the project

is the elevation and reconstruction of East River Park, ensuring long-term resilience and sustainability for the surrounding neighborhoods. The project also includes the reconstruction of pedestrian bridges, improving connectivity and accessibility to the revitalized park. Major underground infrastructure work involves rebuilding the park's entire water, sewer, and combined overflow system, along with utility facility upgrades. In addition to critical flood mitigation measures, the project enhances community spaces by reconstructing the amphitheater, track facilities, and multiple sports fields, as well as revitalizing the East River Park Esplanade with two enhanced embayments for improved ADA access to the waterfront. Bill is responsible for conducting site audits, overseeing accident reporting and investigations, reviewing safety-related submittals, and ensuring full compliance with site safety requirements.

Construction Safety Consultant/Station Renewal: 6 Stations Sea Beach Line/MTA NYCT/$188M
This project repaired select elements within seven stations on the Sea Beach Line in a heavily populated neighborhood. The station renewal eliminated all major deficiencies in each station as determined by the Station Condition Survey. Provided loss control services, identifying then eliminating or reducing loss potential that could adversely affect client's success. As the construction safety consultant, Bill provided comprehensive loss control services, proactively identifying and mitigating potential risks that could impact project success. He conducted thorough site safety assessments, developed and implemented strategic safety programs, and ensured compliance with all regulatory requirements. Bill played a key role in safety by leading on-site training sessions, conducting hazard analyses, and enforcing best practices to minimize incidents. His expertise in OSHA regulations, fire safety, and site-specific risk management contributed to a safer work environment, reducing liability and enhancing overall project efficiency.

Construction Safety Consultant / Reconstruction of the Cortlandt Street Station - WTC Site / MTA NYCT/$100M
The reconstruction of the Cortlandt Street Station at the World Trade Center site was a project that redefined commuter access in the area. The project encompassed the complete design and construction of a state-of-the-art station, integrating modern transit technology and enhancing operational efficiency.
Key upgrades included the installation of new rooms and enclosures to house advanced train control system equipment, an axle counter system, and other critical supporting systems. The project also involved the removal and disposal of outdated signal system equipment, ensuring a seamless transition to upgraded infrastructure. Bill provided comprehensive loss control services, proactively identifying, eliminating, and mitigating potential risks that could have impacted project success. His expertise ensured strict compliance with safety regulations, minimizing hazards and fostering a secure work environment. By implementing strategic safety protocols, conducting site assessments, and facilitating training, he played a crucial role in enhancing worker protection, reducing incidents, and maintaining project efficiency.

Construction Safety Consultant / Station Renewal: 7 Stations Culver Line /MTA NYCT/$80M
This project involved the renovation of seven stations along the Culver Line, improving transit infrastructure in a densely populated neighborhood. The station renewal successfully addressed and eliminated all major deficiencies identified in the station condition survey, ensuring safer, more efficient, and modernized facilities for commuters. Through targeted repairs and upgrades, the project improved station functionality. Bill provided loss control services, identifying, mitigating, and eliminating risks that could have impacted on the project's success. He ensured compliance with safety regulations, implemented best practices, and promoted safety throughout all phases of construction. His strategic approach enhanced site safety, minimized hazards, and optimized operational efficiency, contributing to the successful and secure completion of the project.

Construction Safety Consultant / Renewal of 5 Stations, Pelham Line / MTA NYCT/$62M
This project renewed five stations along the Pelham Line in a high-traffic urban area, addressing critical infrastructure needs and improving the commuter experience. The station renewal eliminated major deficiencies, through repairs and upgrades. The work improved station functionality, safety, and aesthetics for transit users. Bill provided comprehensive loss control services, mitigating risks to enhance project safety and compliance. He eliminated or reduced potential hazards ensuring a safe and efficient work environment.

Construction Safety Consultant / Brick Arch Repair – 168th & 181st St, Bway-7th Ave Line / MTA NYCT/$42M
Project removed, stabilized, and repaired brick arch sections that span the tracks and platforms at the 168th and 181st street stations on the IRT Broadway/7th Avenue Line. Work included replacement with panels, repairs to the architectural elements and associated electrical and communications work. Both stations were listed on the National Register of Historical Places; accordingly, the repairs were made consistent with historical standards. Bill provided safety consulting services, in compliance with all regulatory safety standards while overseeing the removal, stabilization, and repair of brick arch sections at the 168th and 181st Street stations. He identified and mitigated potential hazards, conducted on-site safety inspections, and implemented risk reduction strategies to maintain a safe work environment. Bill also made sure historical preservation requirements were met by coordinating safety protocols that aligned with the project's compliance with the National Register of Historic Places standards.

Construction Safety Consultant/ Design build Services for New Second Track on the Main Line Ronkonkoma Branch/ MTA – Long Island Railroad /$34M
The project significantly enhanced capacity, reliability, and operational efficiency for the Long Island Rail Road (LIRR). This transformative initiative involved the design and construction of a second track along the Main Line between Farmingdale and Ronkonkoma, reducing congestion, improving service frequency, and increasing overall system resilience. The project scope

included track construction, signal system upgrades, utility relocations, and modifications to existing infrastructure, ensuring seamless integration with LIRR's network. Coordination with multiple stakeholders was critical to minimizing disruptions to active rail operations while executing the work efficiently. As a design-build project, the team leveraged an integrated approach to streamline delivery, optimizing engineering solutions and construction sequencing to maintain schedule and budget. The addition of the second track improved commuting options for passengers, reduced delays, and enhanced the overall reliability of LIRR service, supporting the region's growing transit needs. Bill played a key role in maintaining a safe and secure work environment throughout the project. He provided loss control services, proactively identified and mitigated potential hazards that could have impacted project success. By implementing effective risk management strategies, Bill ensured that safety protocols were upheld, incidents were minimized, and compliance with regulatory requirements was maintained. His expertise contributed to the successful and incident-free completion of this vital infrastructure improvement, enhancing passenger experience and service reliability on the LIRR Main Line.

Construction Safety Consultant / Rehabilitation of the Harlem River Lift Bridge / MTA – Metro-North Railroad /$29M

The Rehabilitation of the Harlem River Lift Bridge project focused on the long-term functionality, safety, and reliability of this critical transportation link. The rehabilitation work included the replacement of lift bridge cables and associated structural and mechanical upgrades to enhance the bridge's performance and durability. The project involved precision engineering and careful coordination to execute the cable replacements while minimizing disruptions to rail operations. Bill provided loss control services, proactively identified and mitigated potential hazards, and worked to eliminate or reduce risks that could have adversely affected the project's success.

Construction Safety Consultant/ Grand Central Terminal Phase II - Leak Remediation Project/ MTA – Metro-North Railroad /$18M

The project focused on identifying and repairing water infiltration issues to preserve the historic transportation hub. The scope of work included comprehensive leak detection, sealing, and waterproofing measures to prevent further water damage and ensure the long-term durability of the terminal's infrastructure. Specialized remediation techniques were implemented to repair compromised areas while minimizing disruptions to daily operations. The project required precise coordination and execution to address water intrusion efficiently, protecting both the structural elements and aesthetics of the landmark facility. As Construction Safety Consultant, Bill provided loss control services, proactively identified and mitigated potential safety risks, and ensured that all work was performed in compliance with strict safety standards. His expertise contributed to a secure and efficient work environment, helping to successfully complete the project while maintaining the safety of workers, commuters, and the historic structure.

Project Safety Manager/WTC Transportation Hub/ Port Authority of New York & New Jersey /$4M

The World Trade Center (WTC) Transportation Hub project delivered an 800,000-square-foot, multi-level transit, retail, and dining complex, transforming Lower Manhattan's transportation infrastructure. The hub featured a rebuilt PATH train station and a 365,000-square-foot retail complex, centered around a large, open mezzanine seamlessly integrated with the iconic Oculus structure. The project provided underground connections to public concourses beneath the World Trade Center towers, linking the PATH system to the NYC Subway and creating a below-ground east-west passageway that connected major transportation hubs, including the Fulton Center and the Battery Park City Ferry Terminal. As Project Safety Manager, Bill was responsible for overseeing all health and safety activities throughout the project. He conducted site audits of contractor activities, managed accident reporting and investigations, and led safety committee meetings and site-specific orientations. Bill also reviewed contractor safety submittals, ensuring compliance with project safety standards and regulatory requirements.

Project Safety Manager/World Trade Center Tower 4/Silverstein Properties/$ 1.6M

The World Trade Center Tower 4 rose to 977 feet (72 stories) and encompassed 2.5 million square feet of rentable space. The structure featured a reinforced concrete core with a steel perimeter, designed to provide both strength and flexibility while meeting modern safety and sustainability standards. Bill was responsible for overseeing all health and safety activities throughout construction. His role included conducting site audits of contractor activities, accident reporting and investigations, leading safety committee meetings and site-specific orientations, and reviewing contractor safety-related submittals to ensure strict conformance with project and regulatory requirements. His leadership in risk mitigation and compliance was instrumental in maintaining a safe and efficient work environment throughout the execution of this landmark project.

Project Safety Manager/World Trade Center Tower 3/ Silverstein Properties

The World Trade Center Tower 3 rose to 1,079 feet (80 stories) and featured 2.5 million square feet of rentable space. The structure was designed with a reinforced concrete core and a steel perimeter. As Project Safety Manager, Bill oversaw all health and safety activities throughout construction. His responsibilities included conducting site audits of contractor activities, managing accident reporting and investigations, leading safety committee meetings and site-specific orientations, and reviewing contractor safety submittals to ensure compliance with project and regulatory requirements.