



# County of Monmouth

## STATEMENT OF QUALIFICATIONS

### FOR:

***Professional Engineering Services Regarding the Inspection and Contract Administration for the Reconstruction of Bridge R-27 on Fourth Avenue over Waackaack Creek in the Borough of Keansburg and the Township of Hazlet***



**RFP #: P-55-2020**

**Due Date: October 14, 2020**

**10:30 A.M.**



**Consulting & Municipal**  
**ENGINEERS**

Parlin • Howell • Monmouth Junction • Pleasantville • Camden • Barnegat

JOHN H. ALLGAIR, PE, PP, LS (1983-2001)  
DAVID J. SAMUEL, PE, PP, CME  
JOHN J. STEFANI, PE, LS, PP, CME  
JAY B. CORNELL, PE, PP, CME  
MICHAEL J. McCLELLAND, PE, PP, CME  
GREGORY R. VALES, PE, PP, CME



TIM W. GILLEN, PE, PP, CME (1981-2019)  
BRUCE M. KOCH, PE, PP, CME  
LOUIS J. PLOSKONKA, PE, CME  
TREVOR J. TAYLOR, PE, PP, CME  
BEHRAM TURAN, PE, LSRP  
LAURA J. NEUMANN, PE, PP  
DOUGLAS ROHMEYER, PE, CFM, CME  
ROBERT J. RUSSO, PE, PP, CME  
JOHN J. HESS, PE, PP, CME

Due Date: October 14, 2020

County of Monmouth  
Division of Purchasing  
Hall of Records, 3<sup>rd</sup> Floor  
1 East Main St.  
Freehold, NJ 07728

Attn: Ms. Helen P. Fiore  
Acting Director, Division of Purchasing

Re: **Statement of Qualifications for Providing  
Professional Engineering Services Regarding the Inspection And  
Contract Administration for Reconstruction of Bridge R-27 on Fourth  
Avenue over Waackaack Creek in the Borough of Keansburg and the  
Township of Hazlet  
RFP # P-55-2020**

Dear Ms. Fiore:

We are pleased to submit herewith one (1) unbound original and four (4) copies of our Statement of Qualifications to provide the Professional Services related to the Inspection and Contract Administration for the above-referenced project.

Our Statement of Qualifications includes our Qualifications Statement and our proposed Project Team with resumes of key personnel.

In summary, CME Associates offers their excellent qualifications for this project as follows:

- A highly experienced Project Team with a track record of success with similar projects;
- Over 37 years of providing services to Municipal and County Clients throughout New Jersey;
- Our office location nearby in Parlin NJ providing quick access to the site for Project Management and support staff;
- A thorough understanding of project requirements and the needs of public entities for the successful management of their projects.

We are confident that Monmouth County will find the resources and personnel of the CME Associates Project Team to be highly skilled with the experience and abilities necessary to successfully complete this Contract, and that our Statement of Qualifications meets with your approval. We look forward to submitting a detailed Proposal for this work.

Should you have any questions concerning this matter, please do not hesitate to contact this office.

Very truly yours,  
CME Associates

  
Michael J. McClelland, P.E.  
Partner

MJM/DHC



# MONMOUTH COUNTY - QUALIFICATIONS STATEMENT

## Introduction and Project Understanding

CME Associates (CME), founded in 1983, operates from six (6) offices throughout the State including our offices in Howell Township, Monmouth County, NJ, and in Parlin, Middlesex County, NJ. CME currently employs over 200 employees consisting of Professional Engineers, Planners, Licensed Surveyors, Technical Support and Administrative Staff, a majority of whom live in Monmouth County and surrounding municipalities. For decades, we have successfully served our public Clients, including Municipal and County Governments throughout New Jersey, as well as State agencies and authorities. Our organization prides itself on providing technically sound and quality work through implementation of a comprehensive **“Quality Management Program and Innovative Solutions”** which have resulted in numerous State and National awards to our Clients.

Monmouth County has requested a Statement of Qualifications for inspection and contract administration for the Reconstruction of Bridge R-27 on Fourth Avenue over Waackaack Creek, in the Borough of Keansburg and the Township of Hazlet.



Monmouth County: Bridge R-27

The construction services to be provided include field inspection, contract administration, quality assurance, supervision and coordination of materials testing, preparation of construction reports, payments, and other project documentation for the duration of the project. These duties will include the presence of an on-site Resident Engineer under the supervision of a Consultant Project Manager, part-time inspectors to assist the Resident and office support as needed for shop drawing review and construction consultation. Coordination with the Design Engineer – T&M Associates for their design support services will also be provided.

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The Project consists of the removal of an existing concrete and timber structure and associated approach roadways and the construction of a new single span bridge consisting of precast concrete three sided culvert supported on steel concrete filled pipe piles with reinforced concrete ring walls and permanent steel sheeting; the reconstruction of approach roadway including storm sewers, curb, guide rail and other incidental and necessary work shown on the construction plans.

The Request for Professional Qualifications (RFPQ) issued by the County presents four (4) criteria upon which this Qualification Statement will be evaluated, and we provide our response to these as follows:

### 1. Location (Proximity to the Project and County Seat)

It is our intent to manage and provide oversight and engineering support for assigned projects from our Office in Parlin, NJ which is within half an hour of the County Engineer’s office, and the Project site. The CME Partners, Project Manager and engineering support personnel will be readily available for on-site review or review at the Office of the County Engineer. The Resident Engineer will be on-site on a full time basis as dictated by the work. Support services, as needed, will also be performed in our Parlin Office.

### 2. Qualifications/ Experience of the Firm in Similar Work

CME Associates has proposed a Project Team that has the capabilities, experience, expertise and skills necessary to successfully complete inspection of the project, as further presented below. The experience of CME Associates includes the following:

- **Monmouth County – Intersection Improvements at County Route 516 (Middle Road) and Union Avenue in the Township of Hazlet** – this \$926K Project included improvements to the intersection geometry, new traffic signals and site improvements.
- **Monmouth County – Replacement of Bridge HL-08** – This emergency replacement project was completed in October, 2015 and included the demolition of a failed wooden pile supported bridge and installation of 18” diameter concrete filled driven pipe piles, construction of concrete pier caps,



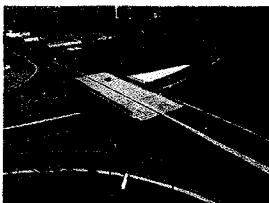
Ernston Road & Bordentown Ave. Intersection Improvements



installation of precast box beam superstructure and construction of a new concrete bridge deck, with ancillary drainage and concrete improvements along both roadway approaches.

- **Monmouth County – Rehabilitation of Bridge S-16** – This project was completed in 2013 and included the staged removal and replacement of a concrete bridge deck while maintaining active traffic on CR 520, AKA Newman Springs Road. CME Associates provided on-site inspection services as well as bridge beam deflection analysis and roadway profile design.
- **Gloucester County – Mullica Road Bypass** - This \$20M project, for which CME Associates performed the design and engineering support services during construction, included the construction of several large box culverts and the foundation design and support services during construction for a cast in place 60 foot wide arch bridge.
- **Woodbridge Township - Woodbridge Center Drive Overpass** – This \$12.4M project included the grade separation of Woodbridge Center Drive and Main St in Woodbridge NJ, and included the construction of a temporary bypass road, a four lane 110 foot precast concrete box beam bridge with poured in place deck, relocation of overhead power and phone cables, a new signalized intersection and associated underground utility work, traffic control and improvement to adjacent roads.
- **Monmouth County – Improvements to the Intersection of CR40A and Evergreen Avenue** – This intersection included installation of a new traffic signal, storm sewer improvements, handicap ramps and interface with the adjacent railroad crossing.
- **Union County – Raymond Avenue Bridge Reconstruction** – This \$1.9M project consisted of the complete demolition of an existing two-span steel I-beam bridge, and replacement with a new single span box beam bridge. CME Associates, providing design and Construction Administration services for the County for this project, coordinated with water and gas companies for the temporary support and permanent relocation of their utility lines, as well as coordinated installation of box beams beneath high voltage electric lines.
- **Gloucester County – Grant Avenue Bridge Replacement** – This Federally funded bridge replacement project involved replacement of an existing bridge with a new pre-fabricated timber bridge, including guiderail and roadway improvements.
- **NJDOT – South Driscoll Bridge** – This project included the construction of the new Southbound Driscoll Bridge over the Raritan River, including approaches. The bridge is 4,400 feet long which included 27 steel girder spans and a construction cost of over \$100M. CME was part of the AECOM team which provided construction inspection services and provided up to four (4) inspectors during various phases of construction, as well as surveying services. Further, our geotechnical Engineer, **Mr. Paul Echaniz** was responsible for monitoring the installation of the pier foundations consisting of 300-24 inch CIP steel pipe piles and 50-72 inch diameter drilled caissons approximately 100 feet long socketed into the underlying rock.

**The CME Associates Project Team**



Woodbridge Center Drive

The CME Associates Project Team has successfully completed hundreds of Municipal and County projects over the last 37 years, and is capable and ready to provide construction inspection and contract administration Consultant services for Monmouth County in the same successful manner as those projects.

Construction inspection services will be managed in the field by our Resident Engineer, with support engineering services and management oversight from our office in Parlin, NJ. Engineering support and Project Management personnel will be readily available to meet at the Project site or County Offices, which are both located within 30 minutes of our Parlin Office. Review of submittals and other engineering support services will be coordinated with the Design Engineer T&M Associates, with additional support provided by personnel in the CME offices in Parlin, NJ, with certain environmental and geotechnical support provided by personnel from our Monmouth Junction office.

CME Associates will coordinate with the County’s Certified Laboratory for quality control material testing for the Project, which may include but is not limited to, testing for soil compaction, welding and bolting, structural steel painting, and concrete and hot mix asphalt (HMA) tests.



The CME Partnership will be led by:

- **Dave Samuel, P.E. – Managing Partner**
- **Michael McClelland, P.E. – Partner in Charge**

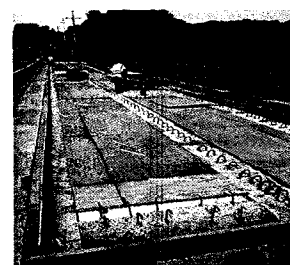
These Partners have successfully completed hundreds of Public infrastructure Projects and will be actively involved and readily available for quick resolution of Project issues. They understand the particular needs of Public owners and will be personally involved in the project.

The Project Manager will be **Mr. Dave Coats, P.E.**, and **Mr. Paulo Benatti, P.E.** will be the Project Engineer, with experienced field support staff as described below.

**Construction Management and Inspection Services**

**Mr. Dave Coats, P.E.**, has over 35 years of experience with the construction of a wide range of public infrastructure projects, including bridge replacement projects, signalized intersection improvements, projects with retaining walls, significant concrete structures, box culverts, utility relocations, and traffic control and his extensive experience will be a valuable asset to the project.

**Mr. Paulo Benatti, P.E.** has over 30 years of experience with the design and construction of transportation Projects, including numerous road improvements Programs and traffic signal upgrades. His experience includes work for Monmouth County for the intersection Improvements at County Route 516 (Middle Road) and Union Avenue in the Township of Hazlet, Intersection Improvements at CR 40 A and Evergreen Avenue and CR40A Memorial Drive improvements in Asbury Park. Mr. Benatti is fully familiar with the requirements and procedures of Monmouth County and the NJDOT for these types of Projects.



Monmouth County Bridge S-16

**Mr. Gary Oliva, P.E. (Traffic, Highway and Building Facilities)** has over 10 years of experience with the design of highway, bridge, and building facility projects. His recent work includes design for Monmouth County for the elevators at the Human Services Building and the Courthouse. His experience includes numerous Municipal and County road improvements programs, bridge replacements, recreational facilities, and building work.

**Mr. James Watson, P.E., PTOE (Traffic and Highway, Building Facilities)** is the Director of our Traffic Department and is experienced with design of roadway layouts, development of vertical and horizontal roadway geometries, profiles, grading plans and cross sections, performance of traffic studies and analysis, design of signalized intersections, calculation of earthwork and development of traffic control plans in accordance with MUTCD guidelines.

**Mr. Nelson Hernandez, P.E., LEED® AP (Structural)** is the Director of our Structural Department and is a proactive and detail-oriented professional with 18 years experience and outstanding success in planning, managing and executing all aspects of structural engineering projects in the design, rehabilitation and inspection of steel and pre-stressed concrete bridges, as well as steel and reinforced concrete structures.

**Mr. Sam Kleinberg, P.E. (Structural/Geotechnical)** has over 38 years of experience in geotechnical and structural engineering for foundations, structures and earth structures. His experience includes foundation analysis and structural design of permanent retaining walls, and marine bulkheads.

**Mr. Paul Echaniz, P.E. (Geotechnical)** has over 37 years of design and construction experience in the geotechnical aspects of projects. His involvement in projects has included subsurface explorations, slope stability and settlement analyses, the design and installation of shallow and deep foundations and axial and dynamic pile testing.

**Mr. Jerome Harris, P.E., P.P.** has over 40 years of experience with the design and construction of a wide variety of water and wastewater supply and distribution projects for municipal facilities. His expertise includes planning, water supply planning, design, environmental assessments, permitting and regulatory agency liaison activity.



**Mr. Michael McGurl, P.L.S. (Surveying)** has over twenty years of experience in boundary and right-of-way surveying. This experience has included the preparation of right-of-way documents, large boundary surveys, and establishment of horizontal and vertical control networks through land based and satellite techniques.

**Mr. John Hrycak** has over 25 years experience with the inspection of bridges and major roadway improvements, including Resident Engineering services and Bridge Inspection Team duties on many bridge construction and rehabilitation projects.

**Mr. Marty Vaisman** has over 30 years of experience with construction of a variety of public infrastructure projects, including the initial construction and recent dredging of the Bayshore Ferry Terminal and Replacement of Bridge HL-08 for Monmouth County.

**Mr. Jim Redmond, NICET III**, has over 30 years of experience with the inspection of road and bridge projects throughout the State of New Jersey, including work for New Jersey Transit, the New Jersey Turnpike Authority, the New Jersey Department of Transportation and Monmouth County.

Selection of field and office personnel will be dependant upon the particular Project requirements and Project schedule.

**3. Current Monmouth County Division of Engineering Open Contracts (Billable Balance)**

CME Associates currently has a number of active Project with Monmouth County, these include Defined Environmental Support Tasks and On-Call Professional Environmental Engineering, Planning and Surveying Services in Connection with the Operation and Permitting of the Monmouth County Division of Reclamation Facilities; Final Design of Roadway Improvements to County Route 3 (Main Street – Tennent Road) between County Route 527 and Kensington Drive/Woodland Circle; Design for the Reconstruction of Bridge R-5 on County Route 39 (Florence Avenue) over a tributary of Chingarora Creek; Preliminary Design of Corridor Improvements to County Route 3 (Lloyd Road) from Reid’s Hill Road to Church Street in the Township of Aberdeen; Design of a Sewer Pump Station at the Monmouth County Linkages Facility located in the Borough of Tinton Falls, Inspection and Contract Administration for the Intersection Improvements at County Route 21 (Allenwood-Lakewood Road), County Route 524 Spur (Atlantic Avenue), and Ramshorn Drive located in the Township of Wall and Inspection and Contract Administration for the Drainage Improvements to County Route 15 (Monmouth Road) in the vicinity of Bridge 0-26, located in the Township of West Long Branch; Inspection and Contract Administration of the Reconstruction of Monmouth County Bridge HL-18 on Kent Road over the North Branch of the Metedeconk River, located in the Township of Howell. The total remaining billable balance for the above contracts is approximately \$1,082,186.06

**4. Past Monmouth County Division of Engineering Project Performance**

Our Project Team has the proven experience with similar projects and our current work with the County’s Division of Engineering is progressing well.

**Summary**

In summary, CME Associates offers their unique qualifications for this project as follows:

- A highly experienced Project Team with a track record of success with previous on-call contracts;
- Over 37 years of providing services to Municipal and County Clients throughout New Jersey;
- Our location within a half hour of Monmouth County Offices and less than a one hour drive to the project location;
- A thorough understanding of Project requirements and the needs of public entities for the successful management of their project.

We are confident that Monmouth County will find the resources and personnel of the CME Associates Project Team to be highly skilled with the experience and abilities to successfully complete any on-call design or construction inspection contract.

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## **ATTACHMENTS**

- **LIST OF KEY STAFF TO PROVIDE CONSTRUCTION ADMINISTRATION PHASE SERVICES**
- **RESUMES**
- **SIGNATURE PAGE**

# RESUMES OF KEY STAFF



## LIST OF KEY STAFF TO PROVIDE CONSTRUCTION ADMINISTRATION PHASE SERVICES

### Construction Management and Inspection

David H. Coats, P.E.	Project Manager
Paulo Benatti, P.E.	Professional Engineer
John Hrycak	Resident Engineer
Jim Redmond, NICET III	Construction Engineer
Marty Vaisman	Construction Inspector

### Construction /Engineering and Building Facility Support Staff

Gary Oliva, P.E.	Project Manager (Traffic, Highway, Building Facility)
James Watson, P.E., PTOE	Project Manager (Traffic, Highway, Building Facility)
Nelson Hernandez, P.E., LEED® AP	Manager of Structural Department
Samuel H. Kleinberg, P.E.	Professional Engineer (Structural and Geotechnical)
Paul Echaniz, P.E.	Director of Geotechnical Services
Jerome Harris, P.E., P.P.	Project Manager (Water, Permitting)
Mike McGurl, P.L.S.	Manager of Field Surveys

### Partners

David J. Samuel, P.E., P.P., C.M.E.	Managing Partner
Michael J. McClelland, P.E., P.P., C.M.E.	Partner

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**DAVID H. COATS, P.E.**  
**CONSTRUCTION MANAGER**



**EDUCATION / CERTIFICATIONS:**

Penn State University  
B.S. Civil Engineering 1978

New Jersey Professional Engineer  
License No. 28551

Pennsylvania Professional Engineer  
License No. 36353

**PROFESSIONAL AFFILIATIONS:**

- American Society of Civil Engineers

**GENERAL DESCRIPTION OF EXPERIENCE:**

Mr. Coats has over 30 years of experience in the design and construction for varied large and small civil engineering projects. His experience includes work as the General Contractor, Subcontractor and Engineer/Construction Manager. His projects includes road and bridge projects, park and recreation facilities, landfill and waste to energy (cogeneration) projects, water and wastewater facilities, emergency and police communications systems and various buildings, including schools, laboratories, nursing homes and industrial plants. His experience includes projects with construction costs varying from \$50k to over \$168M. His experience includes participation in constructability reviews and Value-Engineering teams for a number of projects.

**DETAILED EXPERIENCE**

Responsible for all aspects of managing the construction phase services of all public infrastructure projects. Duties include responsibility for preconstruction tasks, shop drawings, pay applications, contractor schedule, resolution of construction issues, management of field inspection and office support staff, and project close-out. Major projects include:

- Ernston Rd and Bordentown Ave intersection Improvements, Sayreville – Construction of 100 foot railroad bridge track relocations, numerous utility relocations and major intersection widening and upgrade.
- Sayreville Water Treatment Plant Expansion – includes membrane filter systems, clarifier, activated carbon filters, and associated work.
- 500,000 gallon spheroid water storage tank in Point Pleasant NJ
- Middlesex Greenway - Construction of a \$4M, 3.5 mile pedestrian path / bikeway on a former rail line,

- including gateway entrances and appurtenant work.
- ADA Accessible walkway along Aberdeen seawall; 1200 ft. long walkway.
- Waterfront protection / stabilization project in South Amboy and Sayreville
- Road Programs in North Brunswick, Aberdeen, Dunellen, Plainsboro, and Milltown. Road improvement projects for Gloucester County and Middlesex County. Total construction cost over \$30M.
- Waterfront Protection project – South Amboy
- Numerous Park and recreational facilities, including Community Park and Sabella Park in North Brunswick, McCoy Park in Dunellen, athletic fields and facilities for JFK and Woodbridge High Schools, and field and park improvements in Plainsboro.
- Construction of the Mercer County Tennis Center – an indoor, supported fabric sports facilities structure
- Numerous stormwater management programs in North Brunswick, Aberdeen, South Amboy and Mill town, including detention basins, the use of bio-retention with underdrain channels, and underground retention basins.

**EXPERIENCE:**

- 2006 - Present CME Associates  
Manager - Construction Services
- 1999 - 2006 CCMS  
Contracts Manager
- 1992 - 1999 HRH/ATLAS Construction, Inc.  
Senior Project Manager
- 1989 - 1992 LAD Construction and Engineering  
Project Manager
- 1982 - 1992 Metcalf & Eddy  
Project Manager
- 1980 - 1982 Ditmars and Carmichael  
Project Engineer
- 1978 - 1980 Combustion Engineering, Inc.  
Erection Superintendent

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**PAULO BENATTI, P.E.**  
**PROFESSIONAL ENGINEER**



**EDUCATION / CERTIFICATION:**

New Jersey Institute of Technology  
B.S. Engineering Technology, 1994

New Jersey Professional Engineer License No. 49343

Essex County College  
A.A.S. Civil Engineering Technology, 1989

Paulista School of Surveying  
Sao Paulo, Brazil  
Diploma: Land Surveying, 1980

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**PROFESSIONAL AFFILIATIONS:**

- American Society of Civil Engineers

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**GENERAL DESCRIPTION OF EXPERIENCE:**

Design and construction phase services for a wide variety of public transportation and infrastructure projects, including road and intersection improvements, water, wastewater, and storm drainage systems, traffic signals, and parks and recreational facilities.

Highway and Bridge facilities experience includes the Improvements to Ernston Rd. at Bordentown Avenue in Sayreville NJ and Rt 322 Improvements in Gloucester County. Large retaining wall experience includes Plainsboro Road in Plainsboro and Sabella Park.

**SPECIFIC EXPERIENCE:**

**Middlesex County**

- **Improvements to the Intersection of Ernston Road and Bordentown Avenue, Sayreville, NJ** - Federally funded project involving replacement of existing Rail road bridge with a 100' span bridge track relocation, signalized intersection reconstruction, storm drainage system improvements.

**Township of North Brunswick, New Jersey**

- **Community Park** - Sitework, road and pedestrian bridges, retaining walls, utility work, irrigation, and electrical systems.
- **Sabella Park** - Sitework, parking lot and pedestrian bridges, retaining wall, synthetic turf, playing fields, irrigation and electrical systems.

**Township of Piscataway, New Jersey**

- **Improvements to the Intersection of Possumtown Roadway and Circle Drive** - Intersection reconstruction, installation of new traffic signal, construction of

detention basin and storm sewer system, project phasing and traffic control

**Gloucester County**

Federally Funded Projects:

- Reconstruction and Safety Improvements of Fries Mill Road and New Traffic Signal at the Intersection Improvement at Hurffville-Cross Keys Road - Washington Township
- Resurfacing and Safety Improvements of Tuckahoe Road and new traffic signal at the intersection with County Road 612 - Franklin Township
- Reconstruction of Bridge 8-K-6 - Grant Avenue Over Little Ease Run - Franklin Township
- Resurfacing and Safety Improvements of Buck Road and new traffic signal at the Intersection with County Road 610 - Franklin and Elk Township

**Middlesex County and State Funded Projects**

- Ryders Lane and Peach Orchard Road Intersection Improvements - roadway reconstruction, new storm drainage system, traffic signal
- Washington Road and Main Street Intersection Improvements
- Main Street and Ford Avenue Intersection Improvements

**Township of Plainsboro**

Signalized Intersection Improvements:

- Schalks Crossing Road and Scudders Mill Road Intersection - new traffic signal and jughandle
- Scudders Mill Road and Dey Road Intersection - New Traffic Signal, reconstruct roadway and new storm drainage system
- Maple Avenue and Grovers Mill Road Intersection - new traffic signal

**Township of North Brunswick**

- Community Park - Grading and irrigation system
- Sabella Park - Grading and irrigation system, retaining wall, pedestrian bridge and parking area
- 2010 - 2013 Road Improvement Programs Roadway reconstruction, storm drainage system

**Township of Woodbridge:**

- Smith Street and Highland Avenue Intersection - New traffic signal roadway reconstruction
- Reconstruction of Fulton Street - Box Culvert System, roadway reconstruction

**EXPERIENCE:**

Engineering Experience: 24 years

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**JOHN E. HRYCAK**  
**RESIDENT ENGINEER**



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**EDUCATION / CERTIFICATIONS:**

NJ Institute of Technology  
B.S. Engineering Technology (1993)

- NHI Bridge Inspection Training Course (1994)
- NHI Refresher Course Nos. 13051 and 13043 (1999)
- NHI Refresher Course Nos. 130053 (2002, 2007)
- NHI Fracture Critical Inspection Techniques for Steel Bridges Course No. 130078 (2002)
- LRFD for Highway Bridge Structures (2003)
- NICET Certified Engineering Technologist (2009)
- ACI Concrete Field Testing Technician – Grade I
- SAT Certified Asphalt Paving Technologist (valid thru 2009)
- OSHA On-Site Safety Training (10 hour Course)
- Certified in the Operation and Maintenance of Underbridge Insp. Units (1995)

**GENERAL DESCRIPTION OF EXPERIENCE**

Mr. Hrycak has twenty-one years of experience in Bridge Inspection, Bridge Design, Highway Construction, Building Construction, Water and Wastewater Engineering, and Various Construction and Inspection Services. He has served as a team leader on bridge inspection projects involving multiple bridges for the NJDOT, NJHA, NJ Transit, NJ Turnpike and the Port Authority of NY & NJ.

Mr. Hrycak has also gained experience in the design, construction and rehabilitation of bridges for the NJDOT, NJ Transit, NJHA, NJ Turnpike, and Various Counties in NJ. He has served as an office engineer, field engineer and assistant resident engineer on NJDOT and NJ Turnpike construction projects. Mr. Hrycak has been a Resident Engineer for the construction of a CoGeneration Facility for the Joint Meeting of Essex and Union Counties, a Water Treatment Facility for the Township North Brunswick, and Park Improvements for Middlesex County, NJ.

**DETAILED DESCRIPTION OF CONSTRUCTION INSPECTION / ADMINISTRATION EXPERIENCE**

**Johnson Park Improvement Project**

*Middlesex County Engineering Department  
Middlesex County Parks*

Mr. Hrycak has recently been the Resident Engineer for this \$5 Million County Project where two ponds were dredged 25,000 cy of clay/shale material, two observation platforms, totaling 20,000 sf, were constructed on drilled shaft foundations utilizing precast concrete t-beams, parallam timbers and composite wood decking. The project also included 4000 tons of asphalt and site electric.

**Water Treatment Plant Upgrades**

*Township of North Brunswick American Water*  
Mr. Hrycak was the Resident Engineer for this \$16 Million Water Treatment Plant Improvement project. A new gravity filter and administration building was constructed to replace the existing facilities. This project included structural concrete, a structural steel framed building, complex electrical work, integrated computer (SCADA) systems, and detailed mechanical engineering and construction (2009 to 2010).

**Main Sewage Pump Drive Replacement Project**

*Joint Meeting of Essex and Union Counties*  
Mr. Hrycak was the Resident Engineer on this \$3.4 Million project where three (of five) main sewage pumps were replaced in tandem. This work included reinforced concrete construction, mechanical engineering and construction, and the installation of electrical and computerized operational control (SCADA) systems (2008).

**CoGeneration Facility**

*Joint Meeting of Essex and Union Counties*  
Mr. Hrycak was the Resident Engineer for this \$16 Million construction project which utilized existing methane gas production to generate electricity for the entire wastewater treatment plant. This project included a pipe pile foundation, a structural steel framed building, welded gas piping assembly, specialty electrical work, integrated computer (SCADA) systems, and detailed mechanical engineering and construction (2007 to 2008).

**Division Toll Plaza Reconstruction**

*New Jersey Turnpike Authority Garden State Parkway*  
Mr. Hrycak was an Office and Field Engineer for the Asbury Park and Raritan Toll Plaza Reconstruction Projects which included drilled shaft foundations for sign structure foundations, sign structure and EZ-Pass structures, highway drainage and hot-mix asphalt (2007).

**EXPERIENCE:**

2003 to Present	CME Associates Resident Engineer, Bridge Team Leader Project Engineer
2000 to 2003	Lichtenstein Consulting Engineers Project Engineer
1989 to 2000	HNTB Corporation Field Engineer, Design Engineer

**JAMES REDMOND  
CONSTRUCTION ENGINEER**



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**EDUCATION / CERTIFICATION:**

Kean College of New Jersey  
1975 To 1977

- NICET Level III
- Certified Concrete Field Testing Technician - ACI Grade 1
- SAT Certified Asphalt Paving Construction Technologist  
– New Jersey
- Society of Asphalt Technologists, Inc.
- HAZWOPR Certified (OSHA CFT 1910, 120e)
- Certified Nuclear Density Technician

**GENERAL DESCRIPTION OF EXPERIENCE:**

Mr. Redmond was the Resident Engineer for the Improvements to the Plainsboro Pond Dam in Plainsboro, NJ, a project involving removal and replacement of concrete culvert abutment, bridge decking, parapets and wing walls, and was also Resident Engineer for the Improvements to the Intersection of Scudders Mill Road and Schalks Crossing Road in Plainsboro, NJ which involved extensive traffic control and construction staging.

Mr. Redmond has experience with inspection of placement and testing of roadway subgrade, subbase and final pavement for specified in-place density. Also responsible for laboratory testing of soil samples for proctor, sieve analysis, permeability and plasticity index before the material was allowed to be placed.

Mr. Redmond has experience with construction inspection for the following types of projects:

**US ROUTE 1 INTERSECTION IMPROVEMENTS**

Mr. Redmond is currently performing inspection duties for the improvement/widening of three county/local roads intersecting Route 1 in North Brunswick, NJ. His responsibilities include daily coordination and oversight of roadway excavation, placement and compaction of approved sub grade materials and hot mix asphalt, concrete curb/sidewalk, storm system improvements, as well as electrical/IT installation and traffic signal upgrades. Mr. Redmond tracks all quantities and coordinates required testing of all materials being utilized on this project.

**N.J. TRANSIT/AMTRAK TRANSFER STATION, SECAUCUS, N.J.**

***Construction Inspector***

Responsible for inspection of steel H pile, steel pipe and caisson installation for elevated railway and building foundations including steel reinforced concrete grade beam and bent construction.

**BRIGHTMAN STREET BRIDGE REPLACEMENT PROJECT, FALL RIVER/SOMERSET, MASSACHUSETTS**

***Construction Inspector***

Responsibilities included inspection of 100 land borings and 60 water borings for the design of a new bascule span bridge over the Tauntan River. Project included rock core sampling, vane shear testing, and undisturbed soil sampling as well as typical soil sampling.

**NEW JERSEY TURNPIKE WIDENING PROGRAM, INTERCHANGES 8A TO 9 AND 11 TO 15E**

***Construction Inspector***

Responsibilities included inspection of placement and testing of roadway subgrade, subbase and final pavement for specified in place density. Responsible for laboratory testing of soil samples for proctor, sieve analysis, permeability and plasticity index before the material was allowed to be placed in the work.

**BRIDGE DECK REHABILITATION AND RESURFACING ON EASTERLY AND HUDSON COUNTY EXTENSIONS OF THE NEW JERSEY TURNPIKE**

***Construction Inspector***

Responsibilities included inspection of:

- Lane closing installations.
- Demolition and reconstruction of bridge deck sections.
- Milling off: surface spall repair, and resurfacing of asphalt repair only sections.
- Repair and/or replacement of armored deck joints.
- Parapet and safety wall: repair and/or replacement.
- Re striping of roadway.
- Removal of lane closings.
- This work was performed on an around the clock, 6 day cycle which took 18 weeks to complete.

**NEW JERSEY TURNPIKE ANNUAL BRIDGE INSPECTION**

***Bridge Inspector***

Performed visual and structural inspection on bridges owned and maintained by the Turnpike Authority.

**CONCRETE MEDIAN BARRIER CONSTRUCTION. NEW JERSEY TURNPIKE MILEPOST 52 TO MILEPOST 56**

***Construction Inspector***

Responsible for inspection of:

- Median guardrail demolition.
- Excavation and grading of median subgrade.
- Installation of inlet boxes and drainage pipe.
- Placement and grading of shoulder subbase.
- Placement of barrier reinforcement steel.
- Slipform concrete operation.
- Final grading and pavement of shoulders.
- Roadway striping.
- Removal of lane closings.

**MARTY VAISMAN  
CONSTRUCTION ENGINEER**



**EDUCATION / CERTIFICATION:**

Long Island University  
B.S. Business Administration

- OSHA 10-Hour Certified

**GENERAL DESCRIPTION OF EXPERIENCE:**

Over 20 years of management, supervision and inspection of public contracts from preconstruction through project closeout. Typical tasks include construction inspection and observation for compliance with contract plans and specifications, review of shop drawings and coordination of approved materials on site, daily detailed field reports, track construction quantities, resolving construction issues on site, interact with contractor, engineer, owner, and residents.

**DETAILED EXPERIENCE:**

Mr. Vaisman is experience with the inspection of a variety of roadway, bulkhead, dock building, bridge, building construction and reconstruction projects. Road construction including : full depth pavement, milling and overlay of surface pavement, reinforced concrete road repair, curbing, curb ramps, sidewalks, driveways, intersection crosswalks, traffic signal installations, storm drainage improvements including storm pipe, storm inlet construction, and storm manhole construction, having worked on the following projects:

**Bayshore Ferry Terminal**

Belford, NJ

Construction Administrator for the construction of a \$9.6Million, 3,000 sq. ft . building that included half mile entrance road, 1,000 ft. bulkhead, dredging, floating docks, 1,000 vehicle parking facility, and concession areas.

**Delanco Township Sewage Pumping Station**

Delanco, New Jersey

Client: Delanco Township Sewerage Authority

Construction administrator for a \$600,000 construction of a new pumping station and approximately 4,000 LF of connection force main into the Township of Beverly Sewerage Treatment Plant. Site responsibilities included monitoring and inspection of construction of the pump station and installation of the new force main and general compliance with the construction documents.

**Route 522 Improvements**

South Brunswick, New Jersey

Client: Middlesex County Department of Public Works

Construction Inspection and Supervision of roadway reconstruction, milling and resurfacing, manholes, signals and lighting, intersection improvements, utility relocation

and drainage improvements on Route 522 in South Brunswick.

**OTHER PROJECT EXPERIENCE INCLUDES:**

- Fourth Street Sewage Pump Station  
Client: Township of Barnegat, New Jersey
- Windward Sanitary Sewer Collection System  
Client: Township of Barnegat, New Jersey
- Middlesex County College Site Improvements  
Client: County of Middlesex
- Wyncrest Sanitary Sewer Collection System Improvements  
Client: Tinton Falls, New Jersey
- BIOFOR Sanitary Sewer Treatment Plant  
Client: Township of Neptune Sewerage Authority

**EXPERIENCE:**

2014 - Present	CME Associates Construction Engineer
1999-2010	Birdsall Engineering, Inc. Manager, Construction Field Services
1994-1999	Bac Killman Chief Construction Inspector
1981-1994	Rodman Management Construction Supervisor

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**GARY OLIVA, P.E.**  
**PROJECT MANAGER**



**EDUCATION / CERTIFICATION:**

Roger Williams University, RI  
B.S. Engineering 2003

New Jersey Professional Engineer  
License No. 47483

**GENERAL DESCRIPTION OF EXPERIENCE:**

Performed necessary site evaluations required to design roadway layouts; developed proposed vertical and horizontal roadway geometries in accordance with AASHTO and NJDOT guidelines; created profiles, grading plans and cross sections; designed drainage improvements, water distribution systems and sanitary sewerage systems; performed traffic studies and analyses; designed signalized intersections; calculated earthwork; developed traffic control plans according to MUTCD; calculated quantities and prepared engineer's cost estimates; created necessary construction details; prepared contract specifications; prepared soil erosion and sediment control plans and necessary permit applications.

Mr. Oliva regularly attends public meetings and prepares detailed minutes; attends project bid openings and prepares reports regarding bid results of various municipalities.

**DETAILED EXPERIENCE:**

Mr. Oliva is experienced with roadway and traffic design, traffic signalization, parks and recreation facilities, storm and sanitary sewer design, bridge / culvert replacement, and building facilities having worked on projects including, but not limited to:

- Replacement of Bridge 2-B-81, North Clinton Avenue over Bound Brook  
South Plainfield, NJ (2012)  
Client: County of Middlesex
- Nassau Street Sewer Improvements  
North Brunswick, NJ (2012)  
Client: Township of North Brunswick
- Evergreen Center Skatepark  
Woodbridge, NJ (2011)  
Client: Township of Woodbridge
- Route 34 Sidewalk Improvements  
Aberdeen, NJ (2011)  
Client: Township of Aberdeen
- Annual Roadway Improvement Program  
North Brunswick, NJ (2005 - 2013)

- Client: Township of North Brunswick
- Annual Milling and Resurfacing Program  
Woodbridge, NJ (2010 - 2012)  
Client: Township of Woodbridge
- Mannino Park Surveillance Camera Systems  
Old Bridge, NJ (2010)  
Client: Township of Old Bridge
- Annual Roadway Improvement Programs  
Aberdeen, NJ (2003 - 2013)  
Client: Township of Aberdeen
- 2009 Road and Sewer Improvements  
Woodbridge, NJ  
Client: Township of Woodbridge
- Improvements to the Intersection of Smith Street and Highland Avenue  
Woodbridge, NJ (2005-2007)  
Client: Township of Woodbridge
- 25 Acre Active County Park  
North Brunswick, NJ (2006-2007)  
Client: County of Middlesex
- Roadway Improvements at County Route 527 (South Main Street / Park Avenue) and South Main Street  
Englishtown, NJ  
Client: Monmouth County
- Building Facilities
  - Replacement of elevators at Monmouth County Human Services Building
  - RFP preparation for replacement / modernization of elevators at Monmouth County Courthouse and John L. Montgomery Care CenterClient: Monmouth County

**EXPERIENCE:**

- 2013 to present CME Associates  
Project Manager
- 2011 to 2013 CME Associates  
Professional Engineer
- 2006 to 2011 CME Associates  
Project Engineer
- 2005 to 2006 CME Associates  
Senior Design Engineer
- 2003 to 2005 CME Associates  
Design Engineer

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**JAMES C. WATSON, P.E., PTOE**  
**PROJECT MANAGER and TRAFFIC ENGINEER**



**EDUCATION / CERTIFICATIONS:**

University of Vermont  
B.S. Civil Engineering 1993

New Jersey Professional Engineer  
License No. 24GE04452800

Professional Traffic Operations Engineer  
Institute of Transportation Engineers

**PROFESSIONAL AFFILIATIONS:**

- American Society of Civil Engineers
- Institute of Transportation Engineers

**GENERAL DESCRIPTION OF EXPERIENCE:**

**TRAFFIC AND HIGHWAY ENGINEER**

Performed necessary site evaluations required to design roadway layouts; developed proposed vertical and horizontal roadway geometries; created profiles, grading plans and cross sections; performed traffic studies and analysis; designed signalized intersections; calculated earthwork; developed traffic control plans according to MUTCD; calculated quantities and prepared engineer's cost estimates; created necessary construction details; prepared contract specifications; prepared soil erosion and sediment control plans and necessary permit applications including NJDOT major access.

Researched and created base plans for expansive NJDOT, NJHA and NJTA Intelligent Vehicle Highway Systems projects; designed the conduit and its placement along the entire IVHS project limit; investigated current IVHS technologies and organized Variable Message Sign Demonstrations for various agencies including the DRBA and PENNDOT, gathered sign manufacturers and state engineers for the purpose of evaluating leading-edge equipment; managed comprehensive traffic studies for high volume NJDOT routes, scheduled and coordinated field studies, analyzed data and recommended traffic solutions; designed construction plans for rehabilitation of orphan bridges by performing utility searches, geometric calculations, cost estimates and specifications.

**DETAILED EXPERIENCE:**

Experienced with transportation planning, traffic engineering and traffic signalization, having worked on, but not limited to, the following projects:

- Garden State Parkway Interchange 125 National Lead Site Redevelopment Review Trip Distribution Analysis & Travel Demand Analysis  
Borough of Sayreville, NJ  
Client: Sayreville Economic Redevelopment Agency
- Design and Specifications for Intelligent Transportation System Facilities along the Route 1 Corridor between Trenton and Woodbridge, NJ  
Client: New Jersey Department of Transportation
- Performed traffic modeling utilizing syncro software to simulate the effects of multiple access alternative for a 500,000 sf retail development located on Rt. 33 and Millhurst Rd. in Manalapan  
Client: Township of Manalapan
- Improvements to the Intersection of Broadway and Bordentown Ave.  
South Amboy, NJ  
Client: City of South Amboy
- Aberdeen/Matawan Redevelopment Traffic Study  
Aberdeen, NJ  
Client: Township of Aberdeen
- South Amboy Intermodal Transportation Project  
South Amboy, NJ  
Client: City of South Amboy
- Improvements to West Seventh Avenue from Washington Avenue to Clinton Avenue  
Township of Piscataway and Borough of South Plainfield, NJ  
Client: County of Middlesex
- Improvements to the Intersection of Smith Street and Highland Avenue, Woodbridge, NJ  
Client: Township of Woodbridge
- Improvements to the Intersection of County Rt. 522 and County Rt. 535  
South Brunswick, NJ  
Client: Township of South Brunswick
- Annual Program for Road Improvements in Aberdeen, NJ  
Client: Township of Aberdeen

**EXPERIENCE:**

Traffic / Transportation Engineering experience: 15years

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**NELSON HERNÁNDEZ, P.E., LEED® AP**  
**STRUCTURAL ENGINEERING DEPARTMENT MANAGER**



**EDUCATION / CERTIFICATION:**

BS, Civil Engineering, Brown University, 1994

New Jersey Professional Engineer  
License No. 24GE04960500

New York Professional Engineer  
License No. 077867

Leadership in Energy and Environmental Design,  
Accredited Professional

**GENERAL DESCRIPTION OF EXPERIENCE:**

Mr. Hernández is a dynamic, proactive and detail-oriented professional with 18 years of experience and outstanding success in planning, managing and executing all aspects of structural engineering projects in the design, rehabilitation and inspection of steel and prestressed concrete bridges, as well as steel and reinforced concrete structures. He is a highly effective communicator, building partnerships with key professionals and decision-makers for a variety of federal, state and local governmental agencies. He is equipped with strong project management capabilities with a focus on quality, productivity and results.

**DETAILED DESCRIPTION OF EXPERIENCE:**

**CME Associates**

*Structural Project Engineer for the Replacement of Bridge No. 2-B-81, North Clinton Avenue over Bound Brook, Middlesex County, NJ.*

Responsible for the supervision of the Structure Type Study Report which analyzed various structural alternatives for the replacement of an existing 2-span reinforced concrete slab bridge with a single span bridge. Evaluated various superstructure alternatives including prestressed concrete box beams and rolled steel beams.

*Structural Project Engineer for the Design of the Main Street Stairs as part of the Middlesex Greenway Restoration Projects, Middlesex County, NJ.*

Responsible for the structural design of a multi-level staircase which utilizes steel stringers in conjunction with timber treads and risers as part of a nature trail restoration project.

*Senior Structural Design Engineer for the Supplementary Railroad Culvert for Dunellen.*

Responsible for the complete Quality Assurance and Quality Control of the structural design for the installation of new twin 72" diameter reinforced concrete pipe culverts and a 12' x 4' reinforced concrete box culvert under active New Jersey Transit Railroad tracks. Checked all calculations and

drawings for compliance with all design criteria and all applicable CAD standards.

*Senior Structural Engineer for the Construction Engineering Inspection of the Ernston Road / Bordentown Avenue Conrail Bridge.*

Performed multiple site visits to confirm that the contractor was constructing the abutment footings and walls in conformance with the design drawings.

*Senior Structural Design Engineer for the General Consultancy Review of all Licenses to Cross for the New Jersey Turnpike Authority.*

Responsible for the review of the PSE&G design submittals for the installation of new 69 kV and 13 kV lines to cross over the New Jersey Turnpike.

*Senior Structural Design Engineer for the Emergency Structural Evaluation of 8 Fire-Damaged Buildings in Union City, NJ.*

Responded to an emergency call by Union City to perform an immediate structural evaluation of 8 fire-damaged buildings on Bergenline Avenue between 21st and 22nd Streets. Conducted visual inspections of all buildings to assess their structural stability and determine which buildings could be salvaged and which needed to be demolished.

**URS Corporation**

*Project Manager for Facility Inspection Services on an As-Needed Basis for the Triborough Bridge and Tunnel Authority of New York at Various Facilities.*

Responsible for all aspects of project execution including scheduling, staffing, budgeting, invoicing and QA/QC enforcement. Coordinated all facets of the work with the facility, including the inspection and the compilation of reports in accordance with TBTA and NYSDOT guidelines and format. 2009-2011 projects included:

- 2011 Queens-Midtown Tunnel Interim Inspection
- 2010 Surveying and Certification of Truck Weighing Stations at Various Facilities
- 2009 Inspection of the Main Span Traveler Rails of the Verrazano-Narrows Bridge
- 2009 Water Infiltration Study of the Ventilation Buildings of the Queens-Midtown Tunnel

**EXPERIENCE:**

Structural Engineering experience: 20 years

**SAMUEL N. KLEINBERG, P.E.**  
**PROFESSIONAL ENGINEER - STRUCTURAL AND GEOTECHNICAL**



**EDUCATION / CERTIFICATIONS:**

New Jersey Institute of Technology  
M.S. Civil Engineering 1980

Stevens Institute of Technology  
B.S. Civil/Structural Engineering 1973

U.S. Merchant Marine Academy  
B. Nautical Science 1967

New Jersey Professional Engineer  
License No. 24756

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**PROFESSIONAL AFFILIATIONS:**

- American Society of Civil Engineers
  - American Concrete Institute
  - Association of State Dam Safety Officials
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**GENERAL DESCRIPTION OF EXPERIENCE:**

Mr. Kleinberg has over 35 years experience in geotechnical and structural engineering for foundations, structures and earth structures. His experience includes foundation analysis and structural design of permanent retaining walls, temporary excavation support retaining walls, marine bulkheads, and condition surveys for retaining walls, dams, and culverts, and Relevant experience includes the following projects:

- Geotechnical Foundation design recommendations and retaining wall stability assessment for the Doric Temple on Palisades Avenue, in Union City, New Jersey 1979
- Structural Design cast in place concrete retaining wall for Highland Senior Citizens in landslide prone area in the Highlands Borough, Monmouth County, New Jersey 1984
- Stability analysis and grading design for precast concrete cellular walls for retaining 100 feet high bank for residential development in Atlantic Highlands, New Jersey, 1985.
- Geotechnical Stability Analyses, stone masonry bridge abutments/arch spillway buttress for the Lake Matawan Dam, in the Borough of Matawan, New Jersey.
- Phase II Dam Safety review stability Analyses for the stabilization of the existing stone Masonry spillway with post tensioned concrete anchors for the Weston Mill Pond Dam in the City of New Brunswick, 1990

- Design of Temporary excavation support - tied back sheet pile walls for the widening construction of Ramp SISA at the Northbound rest area of the New Jersey Turnpike for E.E. Cruz, In Avenel, New Jersey, 1993.
- Concrete condition survey existing sea wall/steam tunnel on Roosevelt Island, City of New York 1995.
- City-wide condition survey for shoreline bulkheads for the flood study for Atlantic City, New Jersey 1997
- Design of temporary railroad bridge sheet pile abutments and excavation support cofferdam for the installation of a pedestrian tunnel at the NJTRANSIT Westfield Station, in Westfield, New Jersey, 1997.
- Engineer's construction cost estimate for rock bolt reinforcement of existing tunnel modifications for the modification of tunnels at the western end of the Exchange Place Path station in Jersey City, New Jersey.
- Design of vibroflotation stone column stabilization for landslide prone site for retaining wall global stability for the proposed Chelsea Square residential development in Marlboro, New Jersey 2004.
- Geotechnical design consultation for stabilization of the existing cyclopean concrete gravity retaining wall along Adam Clayton Powell Boulevard, Borough of Manhattan, New York City, New York 2003-2004.
- Design Team Leader for design of five (5) off-Turnpike retaining walls including cast in place and mechanically stabilized earth retaining walls and underpinning support for the existing Roosevelt Avenue overpass as part of the NJ Turnpike Authority Interchange 12 Improvements in Carteret, New Jersey. 2004-2005.
- Design team leader and preparation of Geotechnical Foundation Design reports for none (9) retaining walls and 5 MSE bridge wings for the improvements to the Garden State Parkway Interchange 142 in Union and Hillside, New Jersey 2006 – present.

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**EXPERIENCE:**

Civil/Structural Engineering experience: 35 years

RESUMES

**PAUL ECHANIZ, P.E.**  
**DIRECTOR OF GEOTECHNICAL SERVICES**



**EDUCATION / CERTIFICATIONS:**

Manhattan College, Riverdale, NY  
B.E. Civil Engineering 1971

New Jersey Professional Engineer  
License No. 34978

New York Professional Engineer  
License No. 066046

Pennsylvania Professional Engineer  
License No. 039715-R

**PROFESSIONAL AFFILIATIONS:**

- National Society of Professional Engineers
- American Society of Civil Engineers

**GENERAL DESCRIPTION OF EXPERIENCE:**

Mr. Echaniz has over 41 years of design and construction experience in the geotechnical aspects of projects such as high/low rise structures, sewer interceptors, pump stations, sewerage collection and wastewater treatment facilities, bus maintenance facilities, rail stations and rail transportation systems, container facilities, LNG tanks, waterspheroids, dams, highways, bridges, culverts, wind energy towers, and solar farms.

His involvement has included site feasibility studies, subsurface explorations, slope stability and settlement analyses, the design and installation of shallow and deep foundations, axial and dynamic pile testing, controlled fill placement in earthwork projects, monitoring of micro-tunneling/jacked casing procedures, sheeting designs, bulkhead designs, and the design and installation monitoring of micro-piles and tieback/tie-down anchors.

Specialized experience includes settlement analyses of underconsolidated glacial deposits in Flushing, New York; research on the corrosive aspects of sulfate laden soils in the Persian Gulf area; the evaluation and testing of pile uplift capacity for wind energy towers; the assessment of long term pile set-up; and soil densification due to pile driving vibrations.

Mr. Echaniz was the engineer of record for the design and installation phases of the deep foundation system utilized to support the five wind turbines installed at the ACUA facility in Atlantic City, N.J., and provided geotechnical consultation for the NYCTA Revenue facility in Maspeth, N.Y.; the pedestrian bridges, elevators and platforms for eighteen Metro North Railroad Hudson Line stations in New York City and Westchester County; the MTA Rail Control Center in New York City, NY; the NJT Broad Street

Station renovations in Newark, NJ; and the MTA Union Square Station renovations in New York, NY.

**REPRESENTATIVE PROJECTS:**

**Replacement of Bridge No. 2-B-81, North Clinton Avenue over Bound Brook, Middlesex County, New Jersey**  
Discipline manager responsible for the subsurface exploration and laboratory testing program, geotechnical analyses, and providing recommendations for foundation design.

**Raymond Avenue Bridge Reconstruction over Green Brook, City of Plainfield, New Jersey**  
Discipline manager responsible for conducting the subsurface exploration, laboratory testing, geotechnical analyses and providing recommendations for foundation design.

**Replacement of Salem County Bridge No. 1701-233 - Hannah Bridge, Pittsgrove Twp, New Jersey**  
Discipline manager responsible for conducting the subsurface exploration and laboratory testing program, performing pile capacity analyses, and developing parameters for foundation design.

**New GSP Driscoll Bridge, Woodbridge, New Jersey**  
Project Manager responsible for providing installation monitoring services for high capacity CIP pipe piles and 60-inch diameter caisson w/19 feet rock sockets.

**Proposed Replacement of Manor House Road Culvert, Mt. Olive, New Jersey**  
Project Manager responsible for conducting the subsurface excavation/laboratory testing, performing geotechnical analysis and providing recommendations for foundation design.

**Sussex County Bridge J-01 Replacement Rock Lodge Road over Pequannock River, Sussex County, New Jersey**  
Project Manager responsible for conducting the subsurface exploration/laboratory testing, performing geotechnical analysis and providing recommendations for foundation design.

**Sussex County Bridge E-06, Rt.631 over Walkkill River, Franklin Boro., Sussex City, New Jersey**  
Project Manager responsible for conducting the subsurface exploration/laboratory testing, performing geotechnical analysis, and providing recommendations for foundation design.

**EXPERIENCE:**

Geotechnical Engineering experience: 41 years

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**JEROME A. HARRIS, P.E., P.P.**  
**PROJECT MANAGER**



**EDUCATION / CERTIFICATION:**

BS, Civil Engineering, Rutgers University, 1969  
MS, Environmental Engineering, New Jersey Institute of  
Technology, 1972

New Jersey Professional Engineer  
License No. 21376

New Jersey Professional Planner  
License No. 2918

**PROFESSIONAL AFFILIATIONS:**

- New Jersey Water Environment Association
- Water Environment Federation
- American Society of Civil Engineers
- American Water Works Association

**GENERAL DESCRIPTION OF EXPERIENCE:**

Mr. Harris has a diversified background in the planning, design, permitting, construction and operation of wastewater and water facilities. He is an experienced client and project manager who has been the appointed consulting engineer for municipalities and utilities authorities.

He has specialized expertise in the areas of wastewater management planning including performance of infiltration /inflow analyses and sewer system evaluation surveys for both public and private clients. Specific project experience is described below.

**REPRESENTATIVE PROJECTS:**

- Project Engineer or Manager. Preparation of Infiltration Inflow Analyses, Sewer System Evaluation Studies or extraneous flow studies for various communities including:
  - o Washington Borough (Warren County), N.J.
  - o Town of Montgomery/Tri-Villages, N.Y.
  - o Flemington Borough, N.J.
  - o Township of Hillsborough Municipal Utilities Authority, N.J.
  - o Environmental Disposal Corporation, Somerset County, N.J.
  - o Town of Yorktown, Westchester County, N.Y.
  - o Borough of Stockton, N.J.
  - o Moodna Basin Municipalities, Orange County, N.Y.
  - o Allendale, N.J. Interceptor
- Borough of Flemington, NJ- Sanitary Sewer Consulting Engineer for all wastewater matters including investigation of infiltration & inflow, design of over \$2M in system rehabilitation projects including the use of innovative trenchless techniques, consultation regarding negotiation of a new sewer use agreement, and review of development

proposals. Projects involving sanitary sewer cleaning, CCTV, and CIPP rehabilitation included:

- o Route 12 Area Sanitary Sewer Repairs
- o Route 31 Sewer Crossing Repairs
- o Route 12/Main Street Circle Sanitary Sewer Repairs
- o North Section of Borough Sanitary Sewer Rehabilitation

- Township of East Brunswick- Investigation of existing Rues Lane sanitary sewer including CCTV inspection, evaluation of alternative repair methods, preparation of plans and specifications, and construction phase services.

- Township of Hillsborough Municipal Utilities Authority, NJ- Provided engineering services relative to the acquisition and improvement of two antiquated wastewater treatment plants. Conducted infiltration and inflow analyses for the River Road and Fieldhedge service areas and assisted in implementing rehabilitation measures with the objective of abandoning the plants and connection of flows to a regional system. Provided assistance with Administrative Consent Order compliance and treatment plant decommissioning/demolition.

- Warren Township Sewerage Authority, Warren, NJ- Engineering services during transition period for a five year operations and maintenance contract for three advanced wastewater treatment plants, 17 pumping stations and 70 miles of sewer. Services included condition assessment, identification of capital needs and development of O&M manuals.

- Borough of Stockton, NJ- Provided engineering services to investigate the existing sanitary sewer collection system and pumping station. Services included design of collection system repairs and pumping station improvements. Construction phase services provided for the collection system improvements.

- Environmental Disposal Corporation, Bedminster, NJ- Consulting engineering services for an advanced wastewater treatment plant, including nine pumping stations, and 35 miles of collection sewers including investigation of infiltration/inflow, preparation of regulatory reports, annual operating budget, long-term capital improvement budget, monthly client reports, coordination of vendor invoices, liaison with bulk user customer communities, engineering support for the planning/design/implementation of capital projects, review of construction applications and resolution of discharge permit issues.

**EXPERIENCE:**

Consulting Experience: 33 years  
Government Experience: 8 years

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**MICHAEL MCGURL, P.L.S.**  
**MANAGER OF FIELD SURVEYS**



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**EDUCATION / CERTIFICATIONS:**

New Jersey Institute of Technology  
B.S. Surveying Engineering Technology 1993

Rutgers University Cook College  
B.S. Exercise Physiology 1985

New Jersey Professional Land Surveyor  
License No. GS 38338

Pennsylvania Professional Land Surveyor  
License No. SU-054826-E

New York Professional Land Surveyor  
License No. 050463-1

OSHA Trained per 27 CFR 1910.120 (E), (1.2)

OSHA Trained per 27 CFR 1910.120 (E), (3)

**PROFESSIONAL AFFILIATIONS:**

- NJ Society of Professional Land Surveyors
- American Congress on Surveying & Mapping
- National Society of Professional Land Surveyors
- Tau Alpha Pi National Engineering Honor Society

**GENERAL DESCRIPTION OF EXPERIENCE:**

**• Improvements to GSP Interchange 142,  
Union, Hillside and Irvington, NJ**

Provided the Right-of-Way, storm and sanitary sewer as-built surveys of approximately four miles of U.S. Highway Route 78 (I-78) and three miles of the Garden State Parkway in the vicinity of Interchange 142. The General Property Parcel and Individual maps were prepared in accordance with NJDOT and New Jersey Turnpike Authority standards for twelve parcels.

**• NYC-DDC Underground Storage Tanks**

Design, reconnaissance, construction and adjustment of a GPS Network encompassing the five Boroughs of New York City for the New York City Department of General Services. The GPS Network was controlled by nine (9) horizontal stations (North American Datum of 1927) and five (5) vertical stations (National Geodetic Vertical Datum of 1929). Overall 76 horizontal control points were set from this network.

Horizontal (State Plane Coordinates, New York East Zone) and vertical control surveys of 85 hazardous sites within the Boroughs of the Bronx, Brooklyn, Manhattan, Queens and Staten Island, involving the New York City Department of General Services. State plane coordinates were established

by GPS. Vertical information was related to the various Borough vertical datums. Several sites required the establishment of astronomic azimuths because the close proximity of manmade structures prevented the use of GPS.

**• Route 25A, Suffolk County, NY**

Right-of-Way acquisition & realignment mapping of Route 25-A, Suffolk County, NY, impacting 450 land parcels for N.Y.S.D.O.T., Region 10.

Supervise survey department in the day-to-day activities, including: marketing, proposal preparation, review boundary analysis, contract negotiations, billing, accounts receivables and employee relations.

**• Main Street & Woodbridge Center Drive,  
Woodbridge, NJ**

Provided Boundary, Topographic, Right-of-Way and utility surveys for the realignment and widening of CR 514 and improved access to Woodbridge Center Drive. The project was immediately adjacent to twenty-five residential and commercial private properties and required the acquisition of fee and/or easement parcels from seven property owners.

**• Xanadu Recreation Complex, Secaucus, NJ**

Prepared the Boundary, Right-of-Way, Topographic, Utility and Hydrographic surveys for the design and proposed development of the Xanadu Complex on the former Brendan Byrne Arena site. Prepared the ALTA-ACSM survey of the Brendan Byrne Arena property, reestablishment of the existing rights-of-ways for New Jersey State Highway Route Nos. 3 and 120, Paterson Plank Road, and a portion of the New Jersey Turnpike immediately adjacent to the proposed development.

**• Hamilton Boulevard, South Plainfield, NJ**

Prepared the boundary, Right-of-Way, Topographic, and Utility surveys for the realignment and redesign of two miles of CR 603. Approximately forty-three parcels, easement and/or fee, were acquired along the 2-mile route. Seventeen General Property Parcel Maps and forty-three (43) individual property maps and descriptions were prepared for use in the acquisition process.

**EXPERIENCE:**

Surveying experience: 26 years

**DAVID J. SAMUEL, P.E., P.P., C.M.E.**  
**MANAGING PARTNER**



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**EDUCATION / CERTIFICATION:**

Newark College of Engineering  
B.S. Civil Engineering 1974

- New Jersey Professional Engineer  
License No. 25838
- New Jersey Professional Planner  
License No. 2455
- Certified Municipal Engineer  
N.J.M.E.I. Certification No. CME 058
- Certified Public Works Manager  
NJ Certification No. M0459

**PROFESSIONAL AFFILIATIONS:**

- American Society of Civil Engineers
- New Jersey Society of Civil Engineers
- American Water Works Association
- New Jersey Society of Municipal Engineers
- New Jersey Recreation & Park Association
- Water Environment Federation
- Association of Environmental Authorities
- Chi Epsilon

**GENERAL EXPERIENCE:**

For more than 30 years, Mr. Samuel has served in the capacity of Municipal Engineer, Consulting Engineer and Authority Engineer for various counties, municipalities, and improvement and utility authorities. He has provided: municipal engineering services; project supervision of design and construction administration of capital projects; public / private partnership of water and wastewater utilities; engineering oversight of county-wide recycling program; professional testimony; planning board and zoning board of adjustment consultant services; environmental services; and engineering evaluations and management studies.

Presently, Mr. Samuel is named the Municipal Engineer for the Borough of South River, Borough of Highland Park, Borough of Sayreville, Borough of Spotswood, Township of Plainsboro, Township of Aberdeen and the Township of South Brunswick. He currently is the Consulting Engineer for Township of North Brunswick, Township of Monroe, Township of Woodbridge, the Middlesex County Improvement Authority, the Joint Meeting of Essex & Union Counties and the Delaware Public Service Commission. He also currently serves as the Water Engineering Consultant for the Old Bridge Municipal Utilities Authority.

**EDUCATION/RECREATION FACILITIES:**

Mr. Samuel has served as Consulting Engineer to various Boards of Education and other agencies for a full range of athletic and recreational projects that include: feasibility studies; infrastructure upgrades; natural and artificial turf fields; level playing fields; rubberized running tracks; tennis and basketball courts; and site improvement facilities including lighting, drainage, landscaping, circulation roadways and parking lots. Mr. Samuel has also been involved in construction management projects, feasibility studies, and assorted other projects for educational facilities.

**WATER / WASTEWATER FACILITIES:**

Mr. Samuel has provided engineering services for a wide range of potable water, wastewater, and hydraulic projects including: feasibility studies; master plans; design; permitting and/or construction management of such projects.

**TRANSPORTATION ENGINEERING:**

Mr. Samuel has provided traffic and transportation engineering services to various clients for projects ranging in scope from minor roadway improvements to major highway related work. Projects include: roadway evaluations and capital master planning; intersection review and designs for various counties and municipalities; roadway reconstructions; traffic counts and analysis; and the design and construction administration of major roadways, including four-lane divided highways and grade separated intersections. Noteworthy projects include services as performed for the Garden State Parkway and New Jersey Turnpike Authority for their high-speed E-Z Pass toll facilities, inspection of bridges, sign structures and high mast light poles as well as the inspection of construction of the Driscoll Bridge.

**REDEVELOPMENT:**

As a result of the high cost of real estate and the shortage of land, Mr. Samuel has been involved in the planning, design and implementation of multiple redevelopment projects in the Borough of Sayreville, Borough of Carteret, City of South Amboy, Township of Aberdeen, Town of Morristown, City of Perth Amboy, the Borough of Dunellen, and other locations. Mr. Samuel's experience and participation has been instrumental in the municipalities' realization of their redevelopment goals.

**AWARDS:**

During Mr. Samuel's career, he has received awards from the American Public Water Works Association, the Robert B. Kinsey Memorial Award Foundation (NJRPA), the Ruth Hughes Innovative Accessible Recreation Facility Award, and more than thirty (30) awards from the New Jersey Society of Municipal Engineers for his design and/or construction management excellence.

**MICHAEL J. McCLELLAND, P.E., P.P., C.M.E.**  
**PARTNER**



**EDUCATION / CERTIFICATIONS:**

New Jersey Institute of Technology  
B.S. Civil Engineering 1986

New Jersey Professional Engineer  
License No. 32468 - Issued 1987

New Jersey Professional Planner  
License No. 3770 - Issued 1987

Certified Municipal Engineer  
N.J.M.E.I. Certification No. CME 0117 - Issued 1989

Certified Public Works Manager  
Certificate No. M0458 - Issued 1996

**PROFESSIONAL AFFILIATIONS:**

- American Society of Civil Engineers
- American Water Works Association
- New Jersey Society of Municipal Engineers

**GENERAL DESCRIPTION OF EXPERIENCE:**

Traffic and Transportation Engineering: Analysis, preparation of reports, design, specifications, permits, and construction administration for various traffic related projects including major and minor road and highway construction and/or reconstruction, traffic circulation and control, signage, striping, and intersection signalization and improvements.

**MUNICIPAL SERVICES:**

Municipal engineer representative to governing bodies, planning boards and boards of adjustment; subdivision and site development reviews and observation of construction; design and construction administration of various municipal capital projects including parks and recreation facilities improvements, storm water management facilities, traffic and transportation facilities, potable water and wastewater facilities and master plans; feasibility reports; and assistance in preparation of capital budgets.

**ENVIRONMENTAL ENGINEERING:**

Hydraulic, hydrologic and sanitary analysis, design and project supervision of potable water systems, including supply storage, treatment and distribution piping and booster pumping stations, and of wastewater systems including collection, transportation and pumping systems; preparation of facilities plan element for federally funded wastewater collection system.

Preparation of grant and/or loan applications for various types of projects in accordance with requirements of funding agencies including NJDEP, EPA, HUD, DOT, FAUS and Green Acres.

Coordination with regulatory agencies and preparation of applicable permit applications, including stream encroachment, waterfront development, air pollution control, sewer extension, potable water facilities modifications, Army Corps of Engineers, and other regulatory permits and approvals.

Since 1981, Mr. McClelland has been responsible for providing municipal engineering services and consulting engineering services to various Counties, Municipalities and Authorities. Counties and Municipalities include, the Borough of Milltown, the Township of North Brunswick, the Borough of East Newark, the Borough of Helmetta, the Borough of Highland Park, the Borough of Sayreville, Middlesex County, the Township of Aberdeen, the Township of Howell, the City of Rahway, the Township of Woodbridge, the Township of Plainsboro, the Borough of Dunellen, Salem County, the Town of Morristown, the Township of Old Bridge, the Township of East Brunswick, the Township of Piscataway, and the City of Summit Board of Recreation and the Township of Berkeley.

Authorities include, the Old Bridge Municipal Utilities Authority, the Franklin Township Sewerage Authority, the East Brunswick Sewerage Authority, the Township of Ocean Sewerage Authority, the Berkeley Township Municipal Utilities Authority, and the Township of Neptune Sewerage Authority.

**EXPERIENCE:**

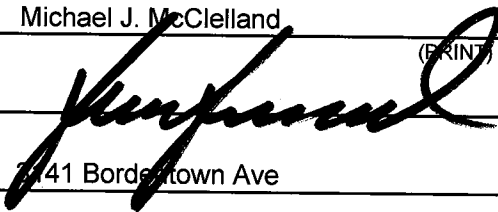
1997 to Present	CME Associates Partner
1990 to 1997	CME Associates Project Manager & Chief Traffic Engineer
1986 to 1990	CME Associates Project Engineer
1983 to 1986	CME Associates Design and Construction Engineer
1981 to 1983	Goodman, Algair & Scott Design and Construction Engineer
1979 to 1981	Township of Berkeley Heights, NJ Senior Engineering Aide

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**SIGNATURE PAGE**

Company Name: CME Associates  
(PRINT)

Preparer's Name: Michael J. McClelland  
(PRINT)

Signature:   
(DATE)


Address: 741 Bordertown Ave  
Parlin, NJ 08859

Telephone No.: (732) 727-8000

Fax No.: (732) 727-3989

E-Mail Address: MMcClelland@cmeusa1.com  
**\*\*\* (This should be the email where Contracts would be sent) \*\*\***

Contact Person: Michael J. McClelland

FEIN:   
(Federal Employee ID)

BRC: 0115495  
(Business Registration Certificate)

**\*\*\*PLEASE COMPLETE AND SUBMIT WITH YOUR RFPQ RESPONSE\*\*\***

(Revised 2/2017)