



**Proposal for
Professional Services 2026
Engineering Service - Water Division**

***Morris County Municipal Utilities Authority
Wharton, NJ***

January 16, 2026

ORIGINAL

**3 Mountainview Road
Warren, NJ 07059**

www.psands.com





January 16, 2026

Morris County Municipal Utilities Authority
370 Richard Mine Road
Wharton, NJ 07885
Attn: Larry Gindoff

Education

Energy Utility

Healthcare

Public Works

Real Estate

Science & Technology

Re: Request for Proposals (RFP) to Provide Professional Services for 2026
Engineering Service - Water Division

Dear Mr. Gindoff:

PAULUS, SOKOLOWSKI AND SARTOR, LLC (PS&S) is pleased to submit this Proposal to provide Engineering Services on an as-needed basis for special projects to the Morris County Municipal Utilities Authority (MCMUA). We have read and understand the scope of services referenced in the MCMUA's RFP, and PS&S is fully prepared and available to be utilized by the MCMUA on projects throughout the course of 2026.

PS&S is a leading full service engineering, architectural and environmental consulting firm headquartered in Warren, New Jersey. PS&S is ranked among the top design firms by Engineering News Record. PS&S is served by over 300 degreed professionals, architects and designers, and a full complement of technical, administrative and field support staff. PS&S' compliance with public policy, record of successful performance, financial and technical resources, and multidisciplinary qualifications and expertise is well documented. As demonstrated within this Qualification Statement, PS&S provides total engineering, architecture and environmental consulting services to Public and Private sector clients, including Counties and County agencies, state and municipalities.

PS&S is uniquely positioned to assist the MCMUA because of our extensive relevant experience and the depth of our in-house capabilities and expertise. All our engineers, architects and environmental professionals sit together in project teams rather than being departmentalized, which greatly improves communication and coordination. This means a better end result for the MCMUA. This experience, in conjunction with our multi-disciplined service capabilities and professional qualifications, will provide a resource to the MCMUA for efficient, cost-effective, one-stop, on-call, professional engineering services. PS&S appreciates your consideration of our firm. We welcome the opportunity to meet with you to discuss the advantages and benefits that the PS&S team can bring to the MCMUA. Please feel free to call us to discuss any questions you may have regarding our qualifications, or to schedule a presentation at your convenience.

Very Truly Yours,
PAULUS, SOKOLOWSKI AND SARTOR, LLC

A blue ink signature of James Wancho, PE, Vice President of Paulus, Sokolowski and Sartor, LLC. The signature is written in a cursive, flowing style.

James Wancho, PE
Vice President

3 Mountainview Road
Warren, NJ 07059

t. 732.560.9700

www.psands.com



Table of Contents

Executive Summary

Firm Knowledge & Experience

- Company Background
- Locations & Staffing
- Detailed Services

Reputation in the Field & Project Portfolio

- References
- Relevant Experience

Qualifications of Project Team

- Organization Chart
- Resumes

Schedule of Hourly Rates

Certificates and Forms

- Document Checklist
- Mandatory EEO Language
- Affirmative Action Compliance Notice
- Americans with Disability Act of 1990 Form
- Anti-Discrimination Requirements
- Certificate of Employee Information Report/AA-302
- Statement of Ownership Disclosure
- New Jersey Business Registration Certificate
- Pay to Play Advisory Notice
- Certification of Non-Involvement in Prohibited Activities in Russia or Belarus
- Disclosure of Investment Activities In Iran
- Non-Collusion Affidavit
- Affidavit of Non-Debarred Status
- W-9



Executive Summary



Executive Summary

The qualifications and experience presented within this document clearly demonstrate the ability of Paulus, Sokolowski and Sartor (PS&S) to provide general engineering services as requested by the MCMUA. In addition to the multi-disciplined engineering services that we provide, PS&S has established itself as a leader in providing innovative and cost effective solutions for municipalities' water and wastewater systems. We provide complete design services, including initial system evaluations, engineering and detailed design, project permitting, project construction administration, and system startups.

PS&S recognizes the Water Resources challenges faced by our clients and has responded by securing recognized leaders and talented professionals with years of project experience that can meet the technical and management requirements of all types of water related projects. Numerous clients, including local and regional municipal authorities, private utility companies, along with several private developers, have awarded PS&S continuing assignments, attesting to the firm's proficiency in meeting these challenges.

PS&S's Water Resources professionals offer practical and energy efficient solutions for water and wastewater treatment, water storage and distribution, and wastewater collection and conveyance. We have a proven track record in water and wastewater master planning that provides expertise from conceptual design, final design, and construction administration to start up assistance, training, and operations support.

Program Management Approach

In order for a project to be successful, a "partnering" environment should exist between the MCMUA and PS&S. This type of environment fosters a free flowing exchange of ideas, quick resolution of challenges, minimal demands on the MCMUA's staff, and projects where everyone enjoys being involved. The ultimate reward is a project completed on time, within budget, and with minimal effort on the MCMUA's part.

PS&S believes that the key to successfully establishing this "partnering" environment is to develop and maintain effective communication and coordination with the MCMUA and others from the outset. Throughout the course of any assigned project, the PS&S team of professionals will be available for meetings with MCMUA personnel, their design professionals, construction contractors and other entities as directed by the MCMUA, to make certain that all issues and alternatives are discussed and resolved. PS&S will staff the project with personnel that are familiar with the proposed type of work. We will constantly aim to anticipate problems and make recommendations in order to avoid having them develop into major issues that may impact the schedule or the public.

We anticipate the MCMUA will require that any project must:

- Be First Class quality
- Run smoothly, on time, and within budget
- Not become a burden on the Authority or require excessive administrative time by the Authority's Staff; and
- Have minimal impact and inconvenience to the public.

Our knowledge gained through extensive project experience strengthens our ability to address project requirements and focus on specific facility needs for our clients.



Firm Knowledge & Experience



About the Firm

Established in 1962, PS&S is an award-winning multi-disciplined, full-service architecture, engineering, design, environmental, and surveying consulting services firm.

Headquartered in Warren, NJ, PS&S offers a single source for planning, design and regulatory compliance services on diverse projects across several market segments including education, energy and utilities, hospitality and entertainment, infrastructure and public improvement, real estate, and science and technology.

Vision



We strive to be the best partner for our clients and for our employees. Our history is our bedrock, and integrity our foundation, and we embrace these as we continue to grow.

Mission



To support our clients strategically and functionally with innovation, technical excellence and unparalleled integrity. To support our employees by creating a professional work environment that provides the resources they require to develop their skills and successfully advance their careers.

Values



- Health, safety, and welfare for our employees and our Communities
- Client satisfaction
- Partnerships and professionalism for our clients and in our work environment
- Sustainability in all our designs
- Diversity and inclusion
- Technical experience
- Fiscal responsibility for our clients and our company

Firm Profile

Overview



Headquarters

Warren, NJ



Locations

NJ, NY, PA, NC



Employees

300+ Employees



Website

www.psands.com



Ownership Structure

Management-Owned

The PS&S Difference

- ✓ A Mid-size Firm with A Large Firm Experience
- ✓ A Local, Knowledgeable, & Dedicated Staff
- ✓ Over 60 Years of Firm Experience
- ✓ Diverse & Multi-disciplinary Team of Experts
- ✓ Consistent Repeat & On-call Clients
- ✓ Project Execution is On-time & On-budget
- ✓ Leading-edge Sustainable Design Practices
- ✓ Extensive Experience with State & County Agencies and Municipalities, Sewerage Authorities & Agencies
- ✓ Award-winning designs
- ✓ Collaborative design approach



Locations and Staffing

PS&S Personnel

PS&S is headquartered in Warren and our regional offices have been strategically placed throughout four states to best serve the varying needs of our clients in their particular business sector. PS&S will service MCMUA projects from our Warren, NJ office. Our regional offices include:



Warren - Headquarters
3 Mountainview Rd.
Warren, NJ 07059
732.560.9700

Shore Central
1450 Highway 34
Wall, NJ 07753
732.363.5850

Cherry Hill Offices
1415 Route 70 E, Suite 305
Cherry Hill NJ 08034
856.335.6010

Pennsylvania
2003 S. Easton Rd
Doylestown, PA 18901
732.539.6865

7540 Windsor Drive
Suite 311
Allentown, PA 18195
610.366.1744

New York NY
1460 Broadway
10th Floor
New York, NY 10036

Woodbury NY
99 Sunnyside Blvd. Ext.
Woodbury, NY 11797
516.364.0660

Yonkers NY
1 Larkin Plaza
Yonkers, NY 10701
914.509.8600

Raleigh, NC
1 Glenwood Ave., 5th Floor
Raleigh, NC 27701
732.430.7201

PS&S Staff & Licenses Composition

The composition of our professional and licensed staff is shown below.

Group	Staff
Architectural Group	36
Civil Group	37
Community Association	9
Cultural Resources Group	8
Energy Services Group	11
Environmental Group	41
MEPF Group	24
Structural Group	11
Survey Group	39
Water Resources Group	15
Landscape Architecture	7
Project Controls	19
Operations Support	45

Licenses/Certifications	Staff
Registered Architects (RA)	12
Professional Engineers (PE)	46
Sustainability Certifications (ENV SP, LEED)	20
Licensed Site Remediation Professional (LSRP)	6
Environmental Scientists	22
Professional Land Surveyors (PLS)	5
Professional Planners (PP)	9
Project Management Professional (PMP)	7
Licensed & Registered Landscape Architects (LLA/RLA)	6
Certified Arborist (ISA)	3
Certified Floodplain Manager (CFM)	4
Certified Municipal Engineer (CME)	2
Certified Manager of Community Associations (CMCA)	1
Reserve Specialist	2
Community Noise Enforcement Certification	1
Professional Archeologist	5
Qualified Architectural Historian	3
Licensed Building Inspectors	3



Detailed Design Services

Overview of PS&S Water Resources Engineering

PS&S is a recognized leader in the field of Water Resources. Our staff of talented professionals can meet the technical requirements of any water or wastewater challenge. With more than 60 years of experience servicing municipal utility authorities, private utilities, cities, counties and private developers, we offer innovative, cost effective and energy efficient solutions for water and wastewater treatment, water storage and distribution, and wastewater collection and pumping systems.



Water Resources Engineering Design

PS&S's Water Resources Engineering Department has been providing professional engineering services for wastewater treatment and conveyance facilities to municipalities, industry, and private developers throughout New Jersey for over 25 years. Our professionals' skills encompass all planning, design, and construction management aspects of wastewater treatment and conveyance facilities as well as process modeling, hydraulic analyses and modeling of wastewater treatment plants and collection systems, bench-scale and pilot-scale treatability studies. We view this combination of talent critical to meeting the needs of our clients.

Water Resources Engineering Services

Our services incorporate planning and design, contract operations, permit compliance, facility operation and management audits, financial planning and capital improvement budgets, rate studies, value engineering, O&M manual preparation, staffing, start-up and training services, and identification of grant/funding opportunities. We are dedicated to providing our clients with full-service, single-source solutions for complex wastewater projects.

Below are the highlights of our experience in the basic design engineering categories:

Water Treatment Facilities Design: PS&S has extensive experience with all aspects of water infrastructure design projects, including potable water wells, distribution, storage and treatment. PS&S professionals have progressed projects from initial planning, alternatives analysis and feasibility studies, process design, hydraulic analyses and modeling, to the development of final detailed design and preparation of bid documents. We have experience with the design of complete water treatment plants as well as detailed design of new and rehabilitation of various specific systems: water distribution systems, well installations, treatment systems, water storage systems, booster pump stations. Additionally, PS&S has experience performing hydrogeologic investigations, master water and GIS plan preparation, SCADA System design, water system modeling and analysis, and water quality services.

Wastewater Treatment Facilities Design: PS&S professionals have extensive experience with all aspects of wastewater treatment design projects, from initial planning, alternatives analysis, and feasibility and treatability studies, process design, hydraulic analyses and modeling, to the development of final detailed design and preparation of bid documents. We have experience with design of complete wastewater treatment plants as well as various components such as pumping systems, dewatering facilities, odor control systems, aeration systems, grit removal systems, chemical feed systems and controls, screening systems and full primary and secondary treatment unit processes, sludge handling systems, and membrane systems. We perform all aspects of wastewater systems design in-house including, geotechnical investigations and foundation design, survey, site/civil, structural, MEP, and instrumentation and controls including SCADA.



Detailed Design Services *continued*

Pump Station and Force Main Design: PS&S professionals have extensive experience with design of various types of pump stations including dry pit/ well pit design, submersible pump stations, dry pit submersibles, propeller pumps, and Archimedes screws and VFDs. Our design services include all aspects from initial planning, feasibility and alternatives analysis, to the development of final detailed design and preparation of bid documents.

Collection System Design: PS&S professionals have extensive experience in design of new gravity sewerage systems in addition to rehabilitation, upgrades and/or extensions to gravity collection systems on behalf of public and private sector clients. No project is too small or too large. We have wide-ranging experience with design of small sewer main extensions and sewer rehabilitation/lining projects, as well as design of main trunk sewer lines and Combined Sewer Overflow (CSO)/Sanitary Sewer Overflow (SSO) treatment and remediation systems.

Inflow and Infiltration and Corrosion Analyses: PS&S also provides full service investigation, data evaluation, and report preparation phases associated with Inflow/Infiltration (I/I) studies and pipeline corrosion investigations, as they relate to preliminary and final design of remediation measures for sanitary sewers and force mains.

Grants and Funding: PS&S personnel have significant experience in obtaining funds for wastewater facilities related capital projects. We are experienced in the procurement of grants for public clients across the state by accessing federal, state and county funding resources, including the NJ IBank and the FEMA BRIC program. We offer grant and funding research for any current and future capital projects and will provide the latest information concerning grant opportunities, eligibility requirements, application review criteria, compliance requirements, and likelihood of award to the Authority. If decision is made to pursue a funding opportunity, PS&S will assemble all information necessary for an effective grant application. Once application submission is made, PS&S will monitor the progress of applications through the review process, as appropriate. We have helped our clients obtain and administer more than \$200,000,000 of NJ IBank funding for projects

Regulatory Permitting: At major wastewater facilities, permits are required for nearly all wastewater facility engineering projects. The engineers and scientists of PS&S are well versed at working together with our clients and the appropriate regulatory agencies to develop comprehensive designs that not only meet project needs, but are sensitive to the surrounding environment. This approach also helps streamline the often complex permitting processes. Our professionals maintain strong relationships with regulators which help to reduce permit processing time, costs, and the risk of non-compliance.

Construction Phase Services: PS&S has extensive experience in providing professional construction administration and resident engineering services on numerous water and wastewater related projects, including projects which were designed by other firms. We direct our efforts toward providing assurances that the completed projects conform to the plans and specifications and result in minimal change orders. In addition to conformance with design documents, our professionals are specifically focused on potential issues and problematic conditions that could be anticipated, including budget and schedule constraints; maintenance of plant operations/bypass requirements; on-site space limitations; safety; construction quality control; environmental controls; and utility coordination. During construction, we keep our clients informed of the progress of the work, and maintain a complete "paper trail," documenting everything that transpires during the course of construction.



Detailed Design Services *continued*



Water Resources

PS&S is a recognized leader in the field of Water Resources. Our staff of talented professionals can meet the technical requirements of any water or wastewater challenge. With more than 50 years of experience servicing municipal utility authorities, private utilities, cities, counties and private developers, we offer innovative, cost effective and energy efficient solutions for water and wastewater treatment, water storage and distribution, and wastewater collection and pumping systems.

- Sanitary & Chemical Sewage Systems
- Wastewater Treatment Systems
- Evaluation of Operations
- Value Engineering
- Water Supply Systems
- Sludge/Solid Waste Handling
- Industrial Facility Design
- Construction Phase Services
- Water Quality Services



Civil/Site Engineering & Survey

Our Civil Engineering department provides a wide array of services for many different clients across various market sectors.

At PS&S, the depth of our experience ranges from small subdivisions to large tracts of land encompassing hundreds of acres for thousands of dwelling units, from small commercial sites to regional shopping malls, from single office buildings to industrial warehouse facilities and corporate office parks, as well as golf courses, racetracks, and casinos.

- Natural Resource Inventories
- Floodplain Analysis
- Land Use Analysis
- Regulatory Compliance & Permitting
- Site Feasibility Analysis
- Site Master Planning
- Site Utility Master Planning
- Stormwater Management
- Boundary & Title Survey
- Topographic Surveys
- Stream Encroachment Analysis
- Roadway Design
- Landscape Planning & Design



Detailed Design Services *continued*



Environmental Engineering

The PS&S Ecological Services team provides exceptional expertise in fields of natural resource consulting, natural restoration, and ecological risk assessments. The Ecological services we provide help clients minimize environmental impacts while maximizing benefit to the project at hand.

Over the past six decades, PS&S has provided site assessments and regulatory permitting services for hundreds of projects. PS&S understands that regulatory permitting can be the biggest risk to the project schedule, and is why our clients involve us as early as possible to scope out the entirety of the regulatory framework, and define tasks to completely address every required step. We often manage the total application process on our client's behalf including review of plans and construction permit submittals prepared by other engineering and consulting firms.

- Wetland Assessments and Delineations
- Containment Delineation
- Environmental Soil Investigations
- Groundwater Studies
- Professional Planning
- Environmental Assessment
- Environmental Permitting & Documentation
- Regulatory Compliance & Permitting
- Wetland Mitigation Design
- Site Remediation
- Air Sampling and Monitoring
- Air Quality Permitting



Geographic Information Systems (GIS)

PS&S believes that geospatial data collection, analysis, and management are vital to the holistic project approach. For more than a decade, PS&S has invested in the latest GIS technologies to perform complex spatial analyses, create customizable GIS web-based mapping applications, create cartographic figures for various audiences, and to streamline workflows and field operations. Our highly trained and experienced GIS staff routinely works with multi-disciplinary specialists across all sectors.

- Site Selection
- Environmental Constraints & Regulatory Compliance
- Conceptual Site Models
- Infrastructure Management
- Sustainable Development
- Facilities Inventory
- Emergency Management Plans
- Demographics
- Web-Based Project Management
- Market Research



Detailed Design Services *continued*



Mech., Electrical, Plumbing & Fire Protection Engineering

Combining technical excellence, practical experience, state-of-the-art engineering and drawing programs with a strong focus on superior client services, PS&S's MEPF team is backed by the many collective years of experience of our highly qualified staff.

Our talented group of professionals work on projects which include new and renovated laboratories, pharmaceutical facilities (manufacturing as well as research and development), chiller and boiler plants, cogeneration facilities, healthcare facilities, office buildings, and educational and industrial facilities.

Our design services include: heating, ventilating, and air conditioning (HVAC), plumbing, fire protection systems, power, lighting, fire alarms, energy studies, process piping and systems.

System Analysis

- Heating
- Ventilating
- Air-Conditioning
- Process Cooling/Heating
- Power Distribution
- Plumbing
- Fire Protection

Programming & Planning Services

- Energy Studies
- Existing Conditions Surveys
- Equipment Environmental Analysis
- Central Plant & Utility Analysis & Planning
- Maintenance Survey and Recommendations
- Life Cycle Costing for Major Systems



Structural Engineering

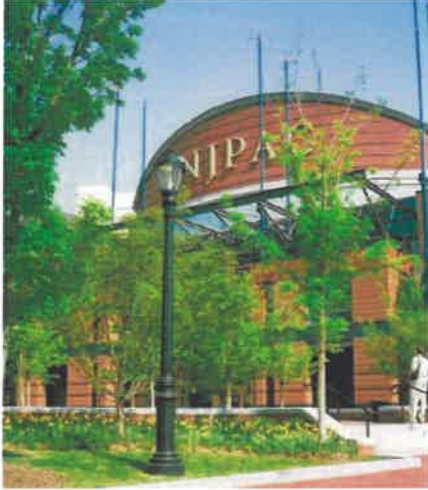
PS&S Structural Group has provided structural engineering services to the community since the firm's inception in 1962. Over that time PS&S has completed an extraordinary collection of projects ranging from low rise to high rise, arena's, waterfront development and just about everything in between. Our long and storied history has allowed PS&S to develop critical industry relationships and accumulate a wealth of knowledge and technical expertise that are routinely leveraged to solve our Client's challenges. PS&S emphasizes a collaborative, open minded and transparent approach to project delivery and adopts new technologies and construction advancements to remain at the forefront of the industry.

- Structural Steel Design
- Cast-in-Place Concrete Design
- Pre-Stressed Concrete Design
- Post-Tensioned Concrete Design

- Existing Building Investigation/Analysis
- Rehabilitations/Renovations
- Foundation Design
- Field Investigations



Detailed Design Services *continued*



Landscape Architecture

For more than 35 years, our award-winning Landscape Architects have been artistically balancing the efforts of our Architects and Engineers to deliver elegant spaces which inspire, perform and add value. PS&S's Landscape Architectural staff draws its strength from an experienced, diverse, and collaborative framework.

From residential estate planning to corporate headquarters, public to private sector clients, green-roofs to large scale municipal parks, our dedicated team of professionals has developed a broad portfolio of various project types. PS&S has implemented an approach to Landscape Architectural projects that integrates the latest trends in placemaking paralleled with real-world technical expertise, economic and delivery driven solutions.



Architectural Planning and Design Services

PS&S Architecture Studio's building solutions grow out of our fully integrated design process, which enables our multidisciplinary teams to creatively solve aesthetic, functional and technical challenges. We develop attractive, sustainable, efficient, and cost effective architecture that meets the needs and vision of our clients. Our range of experience includes new facilities, renovation projects, building evaluations, long range facility planning, master planning, and small maintenance repair upgrades.

- Master Planning and Programming
- Architectural Design
- Feasibility Studies and Referendum Planning
- Site Evaluation/Selection/Planning
- Zoning Assistance
- Architectural Facilities Survey and Report
- New Buildings/Renovations/Modification
- Value Engineering
- Construction Contract Documents Preparation
- Construction Phase Services
- CADD/Computer Design
- Project Budget and Scheduling
- Building and Site Development Programs and Master Planning
- Code Compliance
- Americans with Disabilities Act (ADA) Design
- Field Observations / Inspections
- Closeout Phase Services
- Post Occupancy



Reputation in the Field and Project Portfolio



References

PS&S has extensive experience in providing engineering design services and design services during construction to public entities and governmental agencies. We have served as consulting engineer for various entities ranging from small municipalities such as the Borough of Mendham and the Warren Township Sewerage Authority to large sewerage agencies such as the Camden County Municipal Utilities Authority, Bergen County Utilities Authority, Rahway Valley Sewerage Authority and the Joint Meeting of Essex and Union Counties. We have a proven record of successful performance in the planning, permitting, design, public bidding and construction of sanitary sewerage facilities.

Sussex County Municipal Utilities Authority

34 South Route 94 Lafayette, NJ 07848
Joseph Sesto, PE, Executive Director
973-579-6998

Jackson Township Municipal Utilities Authority

135 Manhattan Street, Jackson, NJ 08527
Earl Quijano, Principal Engineer
732-928-2222

Two Rivers Water Reclamation Authority

1 Highland Avenue, Monmouth Beach, NJ 07750
Dennis Galvin, Executive Director
732-229-8578

Township of Berkeley Heights

29 Park Ave, Berkeley Heights, NJ 07922
Liza Viana, Township Administrator
908-464-2700 Ext 2232

New Jersey American Water

661 Shrewsbury Ave, Shrewsbury, NJ 07702
Patrick Westhoven, PE
908-745-8954

Musconetcong Sewerage Authority

110 Continental Drive, Budd Lake, NJ 07828
James Schilling, Executive Director
973-347-1525 ext 203

Passaic Valley Sewerage Commission

600 Wilson Ave, Newark, NJ 07105
John Bolcar PE, Chief Engineer
973-344-1800

Secaucus Municipal Utilities Authority

1100 Koelle Blvd, Secaucus, NJ 07094
Brian Bigler, Executive Director
201-330-2089

Camden County Municipal Utilities Authority

1645 Ferry Avenue, Camden, NJ 08103
Scott Schreiber, Executive Director
856-583-1261

Western Monmouth Utilities Authority

103 Pension Road, Manalapan, NJ 07726
Brian J. Valentino, Executive Director
732-446-9300 Ext 104

Bayshore Regional Sewerage Authority

100 Oak St, Union Beach, NJ 07735
Peter Canal, Executive Director
732-739-1095

Borough of Mendham

35 Ironia Road, Mendham, NJ 07945
Brian Valliere, Superintendent
973-543-7030

Hudson County Improvement Authority

830 Bergen Ave, Jersey City, NJ 07306
Norman Guerra, Chief Executive Officer
201-795-4555

Essex County Improvement Authority

Building M, 27 Wright Way, Fairfield, NJ 07004
Steven C. Rother, Executive Director
973-575-0952

East Windsor Municipal Utilities Authority

7 Wiltshire Drive, East Windsor, NJ 08520
Richard Brand, Executive Director
609-443-6000

North Bergen Municipal Utilities Authority

6200 Tonnelle Ave, North Bergen, NJ 07047
Frank Pestana, Executive Director
201-422-0100

Morris County Municipal Utilities Authority

Engineering Services - Water Division
January 16, 2026
Page 16



Public Entity Positions in the Past Five Years

Public Sector Entities	Position Held	2021	2022	2023	2024	2025
Atlantic City Municipal Utilities Authority	Consulting Engineer	■				
Atlantic City, City of	Consulting Engineer				■	
Atlantic County	A&E Services	■			■	■
Atlantic County Economic Alliance	Consulting Engineer				■	
Battery Park Authority	Landscape Architecture	■				
Bayshore Regional Sewerage Authority	Special Projects Engineer/Architect	■	■	■	■	■
Bergen County	A&E Services	■	■	■	■	■
Bergen County Utilities Authority	Consulting Engineer/Architectural Services	■	■	■	■	■
Berkeley Heights (Sewer Dept), Township of	Engineer of Record		■	■	■	■
Bernards, Township of						■
Bernardsville, Borough of	Special Projects Engineer	■	■	■	■	■
Brick Township Municipal Utilities Authority	Special Projects Engineer	■				
Bridgeton, City of	Cultural Resource Consultant	■	■			
Burlington County	A&E Services and Planning	■	■	■	■	■
Camden Community Partnership, Inc.	Special Projects Engineer/Architect	■	■	■	■	■
Camden County	A&E Services	■	■	■	■	■
Camden County Department of Public Works	Consulting Engineer	■	■	■		
Camden County Improvement Authority	Consulting Engineer	■	■	■	■	■
Camden County Municipal Utilities Authority	Engineer of Record/Special Consultant	■	■	■	■	■
Camden County Parks Department	Consulting Engineer	■	■	■	■	■
Camden Redevelopment Agency	Consulting Engineer	■	■			
Camden, City of	Consulting Engineer/ Cultural Resource Consultant	■	■	■	■	■
Cape May, City of	Consulting Engineer	■				
Casino Reinvestment Development Authority						■
Cherry Hill, Township of	Consulting Engineer				■	■
Cinnaminson, Township of	Consulting Engineer				■	
Cumberland County	A&E and Environmental Consulting	■				■
Cumberland County Improvement Authority	A&E, Environmental, Planning & Survey/Cultural Resource Consultant	■	■	■	■	■
Deal, Borough of						■
East Windsor Municipal Utilities Authority	Special Projects Engineer			■	■	■
Eatontown Sewerage Authority	Special Projects Engineer					■
Edison, Township of	A&E Services	■				
Essex County	Special Projects Architect/Engineer	■	■	■	■	■



Public Entity Positions in the Past Five Years *continued*

Public Sector Entities	Position Held	2021	2022	2023	2024	2025
Essex County Dept of Parks Recreation and Cultural Affairs	Cultural Resource Consultant	■	■	■		
Essex County Improvement Authority	Special Projects Engineer/Architect/Survey	■				
Flemington, Borough of	A&E Services/Cultural Resource Consultant			■	■	■
Gordons Corner Water Company	Special Projects Engineer	■	■	■	■	■
Greenburgh, Town of	Special Projects Engineer		■		■	■
Hackettstown MUA	Special Projects Engineer					■
Haddonfield, Borough of	Cultural Resource Consultant	■				
Holdmdel, Township of						■
Hudson County	Consulting Engineer/Architect/Environmental	■	■	■		■
Hudson County Improvement Authority	General Consultant (A&E)/Cultural Resource Consultant	■	■	■	■	■
Jackson Township Municipal Utilities Authority	Specialty Consultant	■	■	■	■	■
Jersey City Redevelopment Agency	Special Projects Engineer		■			
Joint Meeting of Essex and Union Counties	Special Consulting Engineer/Architect	■	■	■	■	■
Lakewood Township MUA	Consulting Engineer			■	■	■
Lower Merion Township, PA	Cultural Resources Consultant	■		■	■	■
Madison, Borough of						■
Manasquan River Regional Sewerage Authority	Special Projects Engineer	■	■	■	■	■
Mendham, Borough of	Water Reclamation Facility Engineer	■	■	■	■	■
Middlesex, Borough of	Consulting Engineer	■	■	■	■	■
Middletown Sewerage Authority, Township of	Special Consulting Engineer				■	■
Middletown, Township of						■
Mine Hill, Township of	Sewer Engineer				■	
Monmouth County	Special Projects Engineer	■	■	■	■	■
Monmouth County Parks Department	Special Projects Consultant	■	■	■		■
Montclair, Township of						■
Morris County	Special Projects Architect	■	■	■	■	■
Morristown, Town of	Special Projects Engineer	■			■	
Mountainside, Borough of	Consulting Engineer				■	■
Municipal Housing Authority of Yonkers	Consulting Engineer	■				
Musconetcong Sewerage Authority	General Engineering Consultant/ Engineer of Record	■	■	■	■	■
New Brunswick, City of	Special Projects Engineer		■			
New Jersey American Water	Special Projects Engineer	■	■	■	■	■



Public Entity Positions in the Past Five Years *continued*

Public Sector Entities	Position Held	2021	2022	2023	2024	2025
New Jersey DPMC	Consulting Engineer/Architect	■	■	■	■	■
New Jersey Water Supply Authority	Consulting Engineer/Cultural Resource Consultant	■	■	■		■
New Rochelle, City of	Consulting Engineer/Architect	■	■	■	■	■
Newark Housing Authority	Special Projects Engineer	■		■		
Newton, Town of	Alternate Water and Sewer Engineer			■	■	■
NJ Sports and Exposition Authority	Architectural/Engineering Services			■	■	■
NJ Turnpike Authority	Architectural/Engineering Services			■	■	■
North Bergen Municipal Utilities Authority	Special Projects Engineer/Mechanical Engineer	■	■	■	■	■
North Hempstead, Town of	Special Projects Engineer		■	■	■	■
NYC Department of Design and Construction	Special Projects Engineer		■	■	■	■
NYC Department of Environmental Protection	On-Call Engineering & Survey Contracts	■				
NYC Department of Parks and Recreation	Architecture, Site Civil Engineering, Structural, Survey	■	■			
NYC Department of Transportation	Architecture, Landscape Architecture, Site Civil Engineering, Survey	■				
NYC Economic Development Corporation	Architecture, Site Civil Engineering, Survey On-Call Contract		■	■	■	■
NYS Department of Transportation	Architecture, Site Civil Engineering, Survey	■	■			
NYS Office of General Services	Architecture, Site Civil Engineering, Survey	■				
NYS Office of Parks Rec & Historic Preservation	Architecture, Site Civil Engineering, Survey		■			
Ocean County	Consulting Engineer/Small Bridges and Roads	■	■	■		
Ocean County Utilities Authority	Consulting Engineer	■	■	■	■	■
Ocean Sewerage Authority, Township of	Special Projects Engineer		■	■	■	
Old Tappan, Borough of	Survey Services		■	■	■	■
Parsippany Troy Hills Township	Professional Engineer, Architect & Archaeological	■	■	■	■	■
Passaic County	Special and Consulting Engineer	■	■	■		
Passaic Valley Sewerage Commission	Special Projects Engineer/Architect	■	■	■	■	■
Paterson, City of	Special Projects Architect/Engineer/Cultural Resource Consultant	■	■	■	■	■
Pollution Control Facility Authority of Camden County (PCFA CC)	Environmental Engineering Services			■	■	
Port Authority of New York and New Jersey	Special Projects Engineer		■	■		■
Princeton, Municipality of	Road Design Engineer			■	■	■
Rahway Valley Sewerage Authority	Special Projects Engineer	■	■	■	■	■
Rockville Centre, Village of	Special Projects Engineer		■	■	■	
Seaside Heights, Borough of	Special Projects Engineer	■	■	■	■	■



Public Entity Positions in the Past Five Years *continued*

Public Sector Entities	Position Held	2021	2022	2023	2024	2025
Secaucus Municipal Utilities Authority	Regulatory Compliance Engineer	■	■	■	■	■
Somerset County	Consulting A&E	■				■
Somerset Raritan Valley Sewerage Authority	Consulting Engineer				■	■
South Jersey Port Corporation	Special Projects/On-Call Engineer	■	■	■	■	■
South Jersey Transportation Authority	Special Projects/On-Call Engineer/Cultural Resource Consultant	■	■	■	■	■
South Monmouth Regional Sewerage Authority	Engineering Services	■	■	■	■	■
Suffolk County	Consulting Engineer				■	■
Sussex County Municipal Utilities Authority	Special Projects Engineer	■	■	■	■	■
Tarrytown, Village of						■
Toms River Municipal Utilities Authority	Special Projects Engineer	■	■	■		
Trenton, City of	Special Projects Engineer	■	■	■	■	■
Two Rivers Water Reclamation Authority	Engineer of Record/Cultural Resource Consultant	■	■	■	■	■
Union County	A&E Services	■	■	■	■	■
Union County Improvement Authority						■
Veolia / Suez Water	Special Projects Engineer	■	■	■	■	
Warren Township Sewer Department	General Consulting Engineer/Special Projects Engineer/Architect	■	■	■	■	■
Warren, Township of	Consulting Engineer	■	■		■	■
West New York, Town of	Special Projects Engineer/Architect	■				
West Orange, City of	Cultural Resource Consultant			■	■	■
West Orange, Township of	Special Projects Engineer/Architect	■	■	■	■	■
Westbury, Village of	Consulting Engineer				■	■
Westchester County	Specialty Consultant	■	■	■	■	
Western Monmouth Utilities Authority	General Engineering	■	■	■	■	■
Willingboro Municipal Utilities Authority	Special Projects Engineer	■				
Yonkers, City of	Consulting Engineer	■	■	■	■	■



Relevant Experience

New Jersey American Water, Farmingdale Loop - Farmingdale, NJ: Design, permitting, bidding and construction phase services associated with the installation of +/-3,900 linear feet of new 12-inch watermain through local and county roadways. The design included +/-1,000 feet of water main to be installed beneath the Mingamohone Brook via horizontal directional drill, +/-100 feet of water main to be installed beneath a railroad via open cut (and railroad replacement coordination), and the remainder to be installed via direct bury. PS&S permitting scope included soil erosion and sediment control, Monmouth County Bridge Crossing permit, various road opening permits, and railroad crossing permit. The construction phase required road closures, detours and significant coordination with stakeholders (NJAW, Monmouth County, Farmingdale, Howell, C&D Railroad, residents and business owners along the project route).

Trenton Water Works, Meter Replacement Project - Trenton NJ: Trenton Water Works (TWW) is a Division within the City of Trenton's Department of Public Works. TWW provides potable water to approximately 63,000 metered accounts and 225,000 people in the City of Trenton, as well as portions of Ewing, Hamilton, Hopewell and Lawrence Townships through approximately 630 miles of transmission and distribution mains. Due to the age and type of the existing metering system (approximately 63,000 meters), the majority of the meters are less efficient (or have reduced accuracy) and/or out of compliance. TWW has retained PS&S to provide engineering services associated with replacement of the antiquated domestic and commercial water meters within parts of the TWW's distribution area with new meters equipped with advanced meter reading (AMR) system. As a part of this replacement project, PS&S developed technical specifications and contract documents for the procurement and installation of thousands of meters, communication equipment and software in support of the new metering system. PS&S assisted TWW through the bid phase and obtained funding through the NJ I-Bank, whereas the project was awarded and associated funding was obtained (from NJ I-Bank) Summer 2023.

Gordons Corner Water Company (GCWC), Treatment Plant No. 2 Filter & Piping Modifications - Manalapan, NJ: GCWC owns and operates an Ion Exchange Water Filtration Plant (Plant No. 2) consisting of three (3) filter vessels each rated at 750 gpm. Treatment Plant No. 2 receives raw water from three (3) groundwater wells with a total pumping capacity of 3,000 gpm; however, the filter facility is only capable of treating 2,250 gpm. GCWC wishes to add a new filter vessel into the existing filter facility so to increase the total treatment capacity to meet their well pumping capacity. In addition to the new filter vessel itself, piping modifications, valve replacements and removal of a wall would be required to complete the installation of a complete working system. Site constraints due to the existing filter facility layout posed a challenge when designing the new system to ensure all filters and valving were easily maintainable and accessible.

PS&S performed site visits to collect as-built information and ensure that the proposed piping modifications were able to be constructed. Careful consideration was given to the room layout to ensure there was sufficient space for the operators to perform necessary work on the equipment and access instrumentation. PS&S coordinated directly with filter vessel manufacturers to ensure the proposed filter vessel replicated the size, performance and arrangement as the existing three (3) onsite vessels. Final design documentation and detailed specifications were prepared for GCWC bidding.



Relevant Experience *continued*

Gordons Corner Water Company (GCWC), Mohawk Drive Water Tank - Manalapan, NJ: GCWC intended to install a new elevated finished water storage tank adjacent to an existing 3-million-gallon water storage tank to provide additional water storage volume, system redundancy, and operational flexibility with respect to future maintenance and improvements on existing storage facilities without interruption to the water customer service area. The property owned by GCWC is located in the Residential District where a public utility (the new water tank) is a conditional use. However, the project did not comply with conditions because ordinance requirements regarding lot dimensions and principal building (tank) height were not met. Jurisdiction over the project resided with the Zoning Board of Adjustment. The proposed 2-million-gallon elevated water storage tank will be a standpipe style tank which offers a large storage volume while also providing over 1-million gallons of effective capacity available to the service area. The water level in the tank will be monitored via instrumentation and GCWC's SCADA system. The tank will be equipped with overflow set equal to the system hydraulic gradient line and the overflow piping will be directed into the existing stormwater piping onsite. PS&S prepared zoning board submissions and provided professional planning testimony in support of the application which included variances from ordinance standards. Board approval was issued to GCWC and the project was bid to tank manufacturers in January 2025.

Gordons Corner Water Company (GCWC), Wilson Ave Interconnection Relocation Project - Manalapan, NJ: The GCWC owned and operated an existing below grade interconnection chamber which due to age, condition and nature of the confined space entry they wished to be relocated and modified to a new above ground facility located adjacent to a proposed Hovnanian subdivision. As part of the proposed subdivision, an easement was acquired for said above ground facility to house the mechanical piping, metering equipment and valving for easier access by GCWC. The easement was located in a zoning district where a public utility (the proposed interconnection facility) is not identified as permitted use, conditional use or accessory use. The project did not comply with certain conditions per ordinance(s) within Chapter 95, specifically lot dimensions, lot offsets, and buffers. Jurisdiction over the project resided with the Zoning Board of Adjustment. The design for the Interconnection Relocation consisted of a pre-manufactured building housing the required piping, valving, and metering equipment. The building was equipped with electrical and instrumentation components, control communications via Fiber Optic Cable Service, building sewer, and typical interior and exterior lighting. PS&S prepared zoning board submissions and provided professional planning testimony in support of the application which included variances from ordinance standards. Following Zoning Board Approval, finalized design documentation was prepared and PS&S assisted with bid phase services and construction observation. Construction was completed April 2025 and GCWC has a safe and effective interconnect with neighboring utility to provide drinking water as required.





Relevant Experience *continued*

East Windsor MUA, Milestone Water Treatment Plant

- East Windsor, NJ: PS&S is working closely with EWMUA on two important projects, namely the Millstone Water Treatment Plant Design and the Modification of their Water Allocation Permit. The Millstone Water Treatment Plant Project consists of the engineering design of a new 3.5 MGD, expandable to 5.0 MGD, groundwater treatment plant consisting of a 10,000 square foot building and two remote well houses. Additionally, PS&S is to provide permitting, funding, bid phase and construction phase services in support of this project.



East Windsor MUA, Environmental Review - East Windsor, NJ: PS&S performed a Level 2 Environmental Review for the site of the EWMUA's New Administration Building, Maintenance Building and Water Treatment Plant project. As part of the scope of services, PS&S performed a field and desktop investigation of the proposed project site to determine and identify known environmental conditions and features. A screening approach was applied to evaluate and test for impacts at increasing levels of detail, until professional judgements regarding potential environmental impacts could be made. PS&S then prepared a Level II Planning Document in accordance with N.J.A.C. 7:22-10 requirements to obtain an Environmental Decision Document. Once the EWMUA reviewed and approved the Level II Planning Document, PS&S completed the Letter of Intent on H2Loans and uploaded the Planning Document to begin the NJDEPmEnvironmental Review.



Jackson Township MUA

Six Flags Great Adventure Water Treatment Plant Replacement Project & Perrineville One Million Gallon Elevated Water Storage Tank

Location

Jackson, NJ

Client

Jackson Township
Municipal Utilities Authority

Client Type

Public



The Opportunity

PS&S was retained by the Jackson Township MUA to design a new Greensand Plus water treatment plant to replace the deteriorating Six Flags Great Adventure water treatment plant, upgrade well house facilities and design a new 130' tall, one million gallon elevated water storage tank to provide elevated storage for the future development along County Route 537, other portions of Jackson Township, as well as supplement the water storage for both Six Flags Great Adventure and Hurricane Harbor.

The Challenge

The project located in Jackson Township, New Jersey within the Six Flags Great Adventure theme park presented a variety of challenges, which were dealt with by close coordination with JTMUA, SFGA and regulatory agencies. In summary, the project scope entailed: design of a 2,250 gallon per minute (gpm) GreensandPlus WTP with three (3) two-celled horizontal filters, expandable to 3,750 gpm in the future; pH control, disinfection; backwash and sludge holding tankage; demolition of the existing SFGA WTP; design of approximately 5,000 linear feet of 16" raw and finished water mains; the rehabilitation and upgrade of Wells Numbers 7, 12 and 14; the design of a well house and piping upgrades for Well No. 7; the design of a well house and discharge piping for future Well No. 17; design of an on-site 1.0 million gallon elevated water storage tank; design of two (2) water booster pump stations; design of an on-site duplex submersible sewage pump station; and design of a SCADA system for monitoring and control of the WTP and water supply wells. As part of this project the JTMUA consolidated the SFGA water system to the JTMUA's Central water system. Project funding was via NJEIT low interest loans. PS&S was responsible for securing this funding, and all project related permitting, which included freshwater wetlands delineation and subsequent NJDEP permitting.

The Solution

PS&S performed the planning, permitting and engineering services (including civil site, structural, electrical, process, mechanical and architectural), while working closely with DW Smith (survey) and Geotech subconsultants as required for this project. In addition to helping JTMUA obtain Planning Board Approval for the Water Treatment Plant and Elevated Water Storage Tank, necessary easements and property modifications, PS&S submitted for variety of permits (including but not limited to NJDEP BSDW, NJDEP TWA, NJDEP LOI, FHA, FWW, NJDEP 4-log certification, SESC) which were required for this project.

PS&S assisted with the bid phase of the project and began construction administration services for the new water treatment plant in May 2018. PS&S provided continued construction administration services (monthly meetings, submittal review, resolve issues during construction, coordination with project team, etc) through completion of the facility in April 2021.

As of April 2021, PS&S continues to provide construction management services for the future one million gallon elevated tank of which the foundation system, consisting of 48-70' deep auger cast piles; has been installed and construction of the tank itself is set to be complete by Summer 2022.



Borough of Brielle

Elevated Water Storage Tank Evaluation and Replacement

Location

Brielle, New Jersey

Client

Borough of Brielle

Client Type

Public

The Opportunity

PS&S was retained by the Borough of Brielle to evaluate the existing 100,000 gallon elevated water storage tank. The existing water tank was a steel tower with a service life in excess of 80 years. Based on a history of inspections and a cost benefit analysis, the existing tank was no longer a candidate for rehabilitation. Also, a hydraulic analysis of the overall distribution system further indicated that the community would be better served by demolishing the old tank and constructing a new 300,000 gallon pedosphere elevated tank to increase the water pressure in the immediate service area. This increase in height required an upgrade to the distribution pump at the Union Lane Water Treatment Plant and an overhaul of the Borough's water system controls.

The Challenge

There were a number of challenges that needed to be overcome. A major challenge was to demolish the existing water tank and construct the new water tank within a small footprint at the Borough's Public Works Facilities. Prior to demolition, public notices were distributed to nearby residents and lead testing was performed. During demolition, real-time air quality monitoring was conducted and fire protection measures had to be in place while the tank was dismantled by weld torching. During construction, the contractor needed to maintain the daily operation of the Public Works Department and to maintain the public's use of the on-site Recycling Facilities. Lastly, the contractor needed to contain the sandblasting and painting on-site within a containment system with minimal disturbance to the nearby residential homes.

The PS&S Solution

With proper planning and coordination, the existing tank was totally demolished and all of the steel was carted away from the Borough's Public Works Facilities all within one (1) day without any incidents. The capacity of the new elevated water tank was designed to meet current codes. The height of the new tank not only provided a higher operating pressure to the nearby residents and businesses, but was also able to provide limited relief to the upper service area in case the upper service area experienced failures. Included in the project was a total upgrade of the operation of the Union Lane Water Treatment Plant to a programmed SCADA control system. Project funding was secured via an NJEIT low interest loan.





New Jersey American Water

Glendola Reservoir Water Main

Location

Wall Township, New Jersey

Client

New Jersey American Water

Client Type

Public Works



www.psands.com

The Opportunity

New Jersey American Water (NJAW) owns, operates, and maintains a 980 million-gallon Glendola reservoir. Raw water is supplied to the reservoir from: Manasquan River, Shark River and NJAW Well No. 7. Raw water from Manasquan River is pumped from the NJWSA Hospital Road Facility via 21,000-ft 36-inch main. Raw water from Shark River is supplied by Shark River Intake Facility via 6,800-foot 36-inch main. The two 36-inch mains tee together into a single 30-inch main. After the tie-in, the single 30-inch main then runs ~2,200 linear feet before discharging into the Glendola Reservoir via outlet pipe. The pumping capacities of the two pump stations are hindered by the bottleneck created by the two 36-inch mains connecting into a single 30-inch main.

The Challenge

The main challenges of this project were to find design solutions that minimize disruption to the existing NJAW facilities and allow maintaining service to the existing 30" raw water main to maintain a required minimum water level in the reservoir during construction, as well as to minimize road closures. Additionally, the project was subject to the NJDEP - Flood Hazard Area Permit conditions that imposed limits on when the construction can take place in and around the reservoir.

The PS&S Solution

PS&S worked in close collaboration with NJAW engineering and operations departments to engineer a solution and to dissect the project into phases. The solution took into consideration seasonal water demands and permitting limitations, while minimizing the number of times the contractor had to mobilize, thus reducing the cost of construction.

During the design, a bathymetric survey of the reservoir was performed. Engineering services during construction included full time inspection services as well as underwater structural inspection of the new and existing outfall pipes.





New Jersey American Water Oceanport Creek Crossing Transmission Main

Location

Oceanport, NJ

Client

New Jersey American
Water

Client Type

Public

The Opportunity

New Jersey American Water (NJAW) owns, operates and maintains a few 36" transmission main aerial water crossings in Oceanport, New Jersey. An assessment of the existing timber pile bents and 36" cast iron water main (circa 1900), at Oceanport Creek, indicated the existing timber supports were in poor condition, and the pipe itself was at the end of its useful life (based on wall thickness measurements). PS&S was tasked to evaluate potential replacement options both replace-in-kind, trenchless technology installation and conventional direct bury.

The Challenge

The project location contained various challenges such as, limited utility space within the roadway, environmental permitting, constructability considerations and design of connections into existing water main(s); all of which were considered during the design phase. Proper restraint of both existing and new pipeline was another aspect that challenged PS&S to provide innovative design. Finally demolition and abandonment of the existing timber piles and existing cast iron pipe needed to meet County and environmental regulations.

The PS&S Solution

Following PS&S's alternative's analysis, NJAW selected the most appropriate design which consisted of 600 linear feet of horizontal directionally drilled (HDD) 36" HDPE water transmission main under Oceanport Creek to replace the existing aerial crossing. Detailed design services for the HDD were provided by PS&S, consisting of base mapping, hydrographic survey, geotechnical borings, and private bid ready design plans and specification preparation. Regulatory permits, such as a CAFRA, Waterfront Development, and US Army Corps of Engineers, were secured.





City of Newark Water Main Rehabilitation

Engineering Services

Location

Newark, New Jersey

Client

City of Newark

Client Type

Public

The Opportunity

The City of Newark was looking for engineering services through design, bid and construction for the rehabilitation of an existing 24" diameter water main located in a concrete tunnel that runs south across Haynes Avenue and then east along the right of way of Haynes Avenue. Specifically, the project entailed accessing the 24" diameter water main through three (3) access vaults located along the tunnel. A portion of the water main within and directly exiting the tunnel was removed to allow installation of a cast in place pipe liner. Once the liner was installed, the section of water main that was removed was replaced with new. In order to access the water mains, portions of the existing vaults, namely the top slab had to be removed and replaced with new. PS&S staff, while with another firm performed the design and bid phase services for this project. PS&S was awarded the contract for engineering services through the construction phase included on site construction observation.

The Challenges

The existing 24" water main was located in an existing below grade tunnel. Adjacent to this water main, within the same tunnel, was an existing 20" high pressure water main. Care had to be taken during construction to ensure that damage did not occur to the 20" water main. In addition, the tunnel which the water main was installed is over 100 years old. During construction it was determined that a portion of the tunnel had to be cut out and replaced in order to install the cast in place pipe liner. Lastly, in order to perform the work, the 20" water main had to be bypassed. The City of Newark's valves were found to be non-operational during construction. In addition, the water main on Bessemer Street, which was to be bypassed, was found to feed a major Amtrak facility.

The PS&S Solution

PS&S had on site construction observation and meetings with the Contractor to stress the need to protect the existing high pressure water main. During construction, a portion of this water main was found to be leaking. PS&S worked with the Contractor to repair the leak and maintain operation of this main.





Bayshore Regional Sewerage Authority

Main PS and Sludge Return Building and PS No. 1 Repairs and Mitigation and Electrical Upgrades

Location

Union Beach, New Jersey

Client

Bayshore Regional
Sewerage Authority

Client Type

Public



The Opportunity

Bayshore Regional Sewerage Authority (BRSA) operates a 16 MGD wastewater treatment facility, located in Union Beach and servicing over 82,000 people in Northern Monmouth County. In October 2011, Superstorm Sandy produced tidal flooding halting the operation of the treatment plant and resulting in damage to its structures as well as mechanical and electrical equipment. In an effort to mitigate damages for similar future storm events, BRSA intended to provide preventative flood measures for its facilities and processes. Some of the flood mitigation measures included restoration of the process and electrical equipment in the Main Pump Station: mitigation work including dry proofing to elevation 14.00 (this included raising electrical and control equipment, construction of an interior/exterior flood wall around the Main Pump Station electrical and generator rooms, etc.). Additionally, in the Return Sludge Building, the restoration and mitigation measures included: restoration of the process and electrical equipment, construction of an interior concrete flood wall, raising of exit doors and construction of safe means of entry and egress, and raising the floor approximately two feet.

The Challenge

All work had to be performed in such a manner that continuous, uninterrupted conveyance, treatment, and disinfection of the wastewater, and all essential services and facilities were maintained operational throughout the construction period. Special care had to be given to the maintenance of the plant operation, such that the contract work was not impeding any treatment process, creating potential hazards to operating equipment or personnel, reducing the quality of the plant effluent or causing odor or other nuisance. This project was NJEIT and FEMA funded, as such, the project follows and adheres to all special design, reporting, project administration policies and procedures.

The PS&S Solution

Working closely with BRSA staff and operators, PS&S developed strategies and overcame constraints to keep the wastewater treatment plant operating properly. For the scope of work for this project, PS&S was responsible for the preparation of public bid ready plans, specifications and an engineer's opinion of probable cost; obtaining funding through the New Jersey Environmental Infrastructure Trust (NJEIT); assisting with provision of documentation required to obtain funding through FEMA; and engineering services through the bid and construction phases. As part of the project, PS&S assisted with obtaining funding through the NJEIT and FEMA. PS&S's responsibilities for the NJEIT funding included coordination with the NJDEP, providing all required documentation and information for the NJEIT loan application, addressing NJDEP comment letters, assistance with obtaining the authorization to advertise and the authorization to award the contract. The project is complete, working with the Authority PS&S and the Authority were able to obtain 90% funding from FEMA for most of the project. PS&S also provided Construction Administration Services for the project which is now operating and serving the Authority well.



Monmouth Park Racetrack Stormwater/Wastewater Management Design, Permitting, NJ I Bank Funding, Bid & Construction

Location

Oceanport, New Jersey

Client

New Jersey Sports and
Exposition Authority

Client Type

Real Estate



The Opportunity

Providing design, permitting and construction phase services for new facilities to properly handle stormwater flows from the 200-acre Monmouth Park Racetrack in Oceanport, NJ, owned by the New Jersey Sports and Exhibition Authority (NJSEA).

The New Jersey Department of Environmental Protection (NJDEP) mandated compliance with New Jersey Pollutant Discharge Elimination System (NJPDES) Concentrated Animal Feeding Operation (CAFO) regulations. These regulations required on-site handling and treatment of horse stable area stormwater runoff for up to a 25-year storm, significantly reducing contaminants to Branchport Creek, popular for boating and fishing.

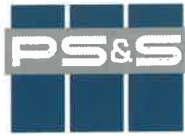
The Challenge

In the mid-1990's NJSEA constructed facilities to collect horse wash-water and "first flush" stormwater runoff for conveyance to the Two Rivers Water Reclamation Authority (TRWRA) wastewater treatment facility. At that time, TRWRA could only accept up to 125,000gpd. Runoff volumes often exceeded that amount, with the excess discharging to local streams. The challenge was collecting all the contaminated runoff yet limiting the discharge to TRWRA while eliminating overflow discharges to local streams.

The PS&S Solution

The PS&S design included significant grading to contain stormwater runoff, new separate roof drainage and CAFO stormwater runoff collection piping, improvements to the infield pond, a 110 MGD stormwater pump station to convey peak flows, and a 6-million-gallon vegetated basin designed to detain flows from a 25-year storm. Up to 500,000gpd of water can now be detained and later conveyed to TRWRA for treatment. The design included approximately 1,900 linear feet of 72-inch interceptor for interconnection of the stormwater collection piping to the pond and pump station. The project was approved by NJDEP and funded by the NJ Environmental Infrastructure Trust.





Passaic Valley Sewerage Commission

Stormwater Collection System

Location

Newark, New Jersey

Client

Passaic Valley Sewerage
Commission

Client Type

Infrastructure

The Opportunity

The PVSC wastewater treatment facility was rendered inoperable during Super Storm Sandy. The NJDEP has identified the PVSC wastewater treatment facility as a critical component of New Jersey's Infrastructure and has recommended that the facility be protected from similar future events. In order to protect from future events, the PVSC has determined that their best course of action is to construct a floodwall around the perimeter of the PVSC wastewater treatment facility, upgrade the stormwater collection system to handle the 100-year storm event, construct three (3) on-site pump stations, and build an on-site power plant.

The Challenge

PS&S was tasked with the engineering services during design, bidding and construction for the stormwater collection system upgrade project.

With the construction of the proposed floodwall and pump station improvements happening at the same time as the construction of the Stormwater Collection System improvements, the onsite stormwater collection system will need to be maintained in service throughout the entire construction period.

The PS&S Solution

The goals of the stormwater collection system upgrade project are to disconnect all existing stormwater collection system connections from systems outside of the PVSC wastewater treatment facility site, convey all on-site stormwater to the three (3) proposed on-site stormwater pump stations, and to modify the existing stormwater collection system to convey on-site runoff generated by the 100-year event along with a wave overtopping rate.





Relevant Experience *continued*

Pumping Systems/VFDs

BCUA Pink Street Pumping Station: PS&S designed the remediation and upgrade of the Pink Street Pumping Station (3,500 gpm @ 214' TDH) in order to eliminate future sanitary sewage overflows into local storm sewers. The pump station improvements included three new vertical, variable speed raw sewage pumps, automatic controls, vacuum priming system, standby generator and all controls and instrumentation..

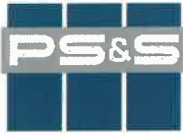
PVSC WAS Pump Control System Investigation: PS&S investigated the existing variable speed control system for the PVSC's WAS pumps. The system consisted of four 200 hp WAS pumps, each driven by a 200 hp wound rotor motor. Concerns with the existing system were the heat generated by the "Reacto-speed" panels, and the flexibility of controls. The recommended solution was replacement of the existing wound rotor motors with current high efficiency true induction motors and VFDs

City of Clifton, Martin Avenue Pump Station: The City of Clifton operated a 3,000 gpm wet-pit/dry-pit submersible pump station that required replacement due to deterioration. Based on discussions with operating personnel, review of pump station plans, pump data and operating information, PS&S proposed constructing a new gravity sewer over an existing box culvert to reduce the depth of the pumping station structure, which would facilitate the use of wet well-mounted pumps and the location of piping and valves in an above-grade enclosure. PS&S then designed a submersible type pump station utilizing the existing wet well.

Monmouth Park Racetrack – CAFO Stormwater Management System: The New Jersey Sports and Exposition Authority (NJSEA) selected PS&S to provide planning, design and construction phase services for this project in Oceanport, NJ. Because the Monmouth Park Racetrack houses in excess of 500 horses at its 200 acre racetrack during the racing season, NJDEP mandated compliance with NJPDES Concentrated Animal Feeding Operation (CAFO) regulations. The NJPDES CAFO regulations require on-site handling and treatment of horse stable area stormwater runoff for up to a 25-year storm, in order to significantly reduce bacterial contaminants to local waters.

Existing facilities at the site were designed to collect horse washwater and "first flush" stormwater runoff for conveyance to the Two Rivers Water Reclamation Authority (TRWRA) WWTP. However system was unable to control runoff of contaminants during major storms. A major challenge was that the local WWTP could only accept up to 500,000 gpd at a maximum rate of 1,200 gpm. How to collect all the contaminated runoff and yet limit the discharge to the local POTW while eliminating overflow discharges to local streams was the challenge presented to PS&S. An additional challenge was the need to avoid distraction to the race horses, requiring construction to occur intermittently only during the horse racing "off-seasons".

The PS&S design included significant grading to contain stormwater runoff, new separate roof drainage and CAFO stormwater runoff collection piping, a 78,000 gpm stormwater pump station to convey peak flows, and a 6-million-gallon vegetated basin designed to detain flows from a 25-year storm. Up to 500,000 gpd of water can now be detained and later conveyed to the local POTW.



Relevant Experience *continued*

Regulatory Relations/Permitting/NJ IBank Funding

Recent NJ IBank Funding Projects

- East Windsor MUA - Millstone Road Water Treatment Plant and Garage and Admin Building
- SRVSA - Main Interceptor Rehabilitation Project
- TRWRA - Pump Station 8, 15 and 18 Efficiency Projects
- Berkeley Heights - Various Projects
- Newton Town - Various Projects
- Parsippany Troy Hills - Lake Hiawatha Pump Station Replacement
- City of Trenton - Water Meter Replacement
- Paterson City - West Railway Sewer Reconstruction & CSO 023 Elimination - Sewer Separation At Second Ave
- Mendham Borough – Collection System Improvements & WWTP Improvement
- Musconetcong Sewerage Authority – Building Roofs & HVAC
- CCMUA - NJ IBANK assistance for all CCMUA Projects since 2020
- Western Monmouth Utilities Authority - Digester Facility Complex Upgrade
- Willingboro Municipal Utilities Authority - Energy Savings Improvement Program & Water Meter Infrastructure Replacement
- JTMUA - Six Flags Great Adventure Water Treatment Plant
- TRWRA - New Main Pump Station
- Brick Township MUA - Breton Woods Water Main Replacements Phase I
- Musconetcong Sewerage Authority - Influent Screening facilities & Effluent Microstrainers
- PVSC Contract A921 - Plant Sump Pump Relocation and Generator Provision; Contract A939 - Plant-wide Replacement of Electrical Cables and Utility Tunnel Bulkheads; PVSC Contract B043 – Stormwater Collection System Upgrades; PVSC Contract B013 – Wallington Pump Station Rehabilitation Project; PVSC - Contract B259 Secondary Bypass And Sludge Train Recycles Rerouting Project; PVSC: Final Clarifier Polymer Storage and Feed Facilities
- Warren Township Sewerage Authority (WTSA) - Stage IV Wastewater Treatment Plant Upgrade- Contract 52; Contracts 60 and 61; Fox Hill Pump Station Replacement - Contract 54; Heather Lane Pump Station Rehabilitation - Contract 55
- RVSA: Comprehensive Strategic Plan – Wastewater Treatment Plant Expansion & Gravity Relief Sewer Contracts; Cogeneration/Sludge Drying Facility; Rehabilitation of Service Water/Foam Spray Pumps; Rehabilitation of Anaerobic Digester Nos. 1, 2 & 3; Centrifuge at Sludge Dewatering Building; Renovation of Old Laboratory; Headworks hvac upgrade and grit tank bridge replacement
- Meadowlands Golf Redevelopment Project: Lyndhurst, Rutherford and North Arlington, NJ
- NJSEA Monmouth Park Racetrack - Stormwater Improvements, Oceanport, NJ
- Township of West Orange: Mayfair District Sanitary and Storm Sewer Improvements
- Bayshore Regional Sewerage Authority (BRSA) - Wind Turbine Facilities, Union Beach, NJ
- BRSA: Main Pump Station, Sludge Return Building and Pump Station #1 Repairs and Mitigation
- North Bergen MUA - Woodcliff Wastewater Treatment Facility Improvement
- Borough of Brielle - Union Lane 0.3 MG Elevated Tank and Water Mains
- Borough of Ocean Gate: Phase I Water Main Replacements
- City of Clifton: Martin Avenue Pump Station Rehabilitation
- Borough of Keansburg - Potable Water Desalination Plant



Relevant Experience *continued*

Water Quality and Wastewater Management Planning

Bergen County Utilities Authority WMP: PS&S prepared a WMP covering the 122 square-mile BCUA Service Area. The WMP document is an amendment to the Area wide 208 Study addressing current and twenty (20) year planning for industrial and domestic wastewater facilities within the area. The data covered fifty-one (51) municipalities and seven (7) domestic treatment plants.

PS&S provided all document development services including mapping preparation as well as all interaction with the member municipalities, adjacent sewerage authorities, NJPDES Permit holders and the NJDEP.

Borough of Mendham WMP: PS&S prepared a WMP covering the entire Borough of Mendham Service Area. PS&S provided all document development services including mapping preparation as well as all interaction with relevant agencies, NJPDES Permit holders and the NJDEP.

Bergen County Utilities Authority WMP/Northeast WQMP Amendment - Meadowlands Golf Redevelopment Project: The project site was split between the BCUA and Passaic Valley Sewerage Commissioners (PVSC) service areas. PS&S prepared an Amendment to BCUA's adopted WMP and the Northeast WQMP for the PVSC Service Area to allow all leachate and domestic wastewater flows from the proposed Meadowlands Golf Redevelopment Project to flow to PVSC.

Rahway Valley Sewerage Authority WMP: PS&S prepared a new WMP for the Rahway Valley Sewerage Authority (RVSA) covering the entire RVSA Service Area. The WMP document addresses current and twenty (20) year planning for industrial and domestic wastewater facilities within the area. The compiled data covered the twelve (12) municipalities serviced by the RVSA. PS&S was responsible for all document development services including mapping preparation as well as all interaction with the member municipalities, adjacent sewerage authorities, NJPDES Permit holders and the NJDEP.



Relevant Experience *continued*

Odor Control and Air Permitting

NJTA Service Area 1S - Carneys Point Township Sewerage Authority Odor Control Facilities: PS&S designed odor control chemical injection facilities for several interconnected pump stations utilizing Bioxide.

BCUA Sludge Dewatering Facility (SDF) - Air Permitting, Atmospheric Dispersion Modeling (Odors):

PS&S prepared air permit applications for the SDF, which included an analysis of potential odors from the SDF using USEPA screening modeling. PS&S prepared an Odor Monitoring Plan to satisfy conditions of the NJDEP air permits, and also conducted odor monitoring for three, three-month periods. PS&S subsequently submitted applications related to SDF alterations, which included a new dewatered sludge container loading operation and revised emission limits based on the results of the odor monitoring. The NJDEP issued new permits for the SDF, and PS&S prepared a protocol for modeling hydrogen sulfide odors from the SDF using the USEPA Industrial Source Complex short-term dispersion model.

BCUA Chemical Stabilization Facility (CSF) - Air Permitting Atmospheric Dispersion Modeling (Odors):

PS&S prepared air permit applications for the CSF, which treats dewatered sludge from the SDF with lime or with lime combined with other dry chemicals to destroy pathogens and produce a stabilized product suitable for beneficial use. The permitting effort included an analysis of potential ammonia odors from the CSF using the USEPA ISCST2. The modeling analysis included a building wake effects analysis using the USEPA Building Profile Input Program (BPIP).

Rahway Valley Sewerage Authority - Cogeneration Plant, Sludge Dryer Air Permitting, State of the Art Analysis, Emission Netting Demonstration, Noise Impact Assessment: PS&S provided the following air permitting assistance to the RVSA:

- Air Permitting: PS&S prepared NJDEP Radius Air Permit applications for the equipment, along with several "critical path" air quality studies to support air permitting efforts including internal emission netting demonstration; state of the art (SOTA) analysis of the engine generator design and emissions from both digester gas and natural gas; and mass/energy combustion balances to estimate air emissions.
- Noise Monitoring: PS&S performed monitoring of existing noise levels at sensitive receptors near the RVSA site to identify and assess the potential significance of noise generated by the facility.
- Noise Modeling: PS&S used noise specifications for major components of the facility to model projected noise levels at various site property boundary locations and off the site, including nearby sensitive receptors.
- Noise Impact Assessment: PS&S performed an assessment of potential noise associated with operation of the facility, including a combination of existing noise levels and modeled noise projections compared to applicable noise standards/criteria.

Union County Utilities Authority (UCUA) - Resource Recovery Facility (RRF): PS&S prepared a Title V Operating Permit Application for the UCUA RRF. Activities included: identification of potential point and fugitive emission sources; classification of significant and insignificant emission sources; compilation of required physical/operational data; estimation of potential emissions; development of a Compliance Plan to address applicable regulatory requirements; preparation of support documentation; and submittal of the application to the NJDEP.



Relevant Experience *continued*

Construction Phase Services

Client	Project	Construction Cost
PVSC	Rehabilitation of Existing Oxygenation Tanks	\$20,000,000
PVSC	Building Renovations	\$ 4,680,000
PVSC	Modifications and Rerouting of Existing Primary Skimmings System	\$ 750,000
PVSC	Demonstration of Final Clarifier Rotary Ducking Skimmer	\$ 360,000
PVSC	Thickening Centrifuge Facility	\$23,000,000
PVSC	Final Clarifier Polymer Storage and Feed Facility	\$ 2,100,000
WTSA	Stage I/II Collection System Rehabilitation	\$ 1,029,434
WTSA	Summerhill PS Upgrade	\$ 509,800
Carrier Clinic	Pump Station and Force Main	\$ 6,700,000
Town of Newton	Contract 155: Wastewater Treatment Plant Improvements	\$ 210,650
Borough of Mendham	Collection System Rehabilitation	\$ 1,775,250
Borough of Mendham	WRF Facilities Upgrade	\$ 2,687,000
BRSA	Sludge Concentration Tank Rehab Project	\$ 3,538,000
BRSA	Raritan Valley Force Main Replacement	\$ 2,671,000
OCUA	CWPCF Thickened Sludge Storage Blend Tank Rehabilitation	\$ 1,667,000
Berkeley Heights	Peracetic Acid System Replacement	\$ 550,000
Berkeley Heights	Micro C & Magnesium Hydroxide Chemical Feed Systems	\$ 986,000
GCWC	Wilson Ave Interconnect Bldg	\$ 554,788
NJAW	Farmingdale Loop Transmission Main	\$ 1,517,000
NJAW	Glendola Reservoir Raw Water Main	\$ 1,870,000
NJAW	W17th Street Pump Station	\$ 5,169,085
NJAW	Salem WWTP Chlorination Bldg Improvements	\$ 2,744,100
WMUA	Digester Facility Complex Upgrade	\$19,243,496
Berkeley Heights	Wastewater Treatment Plant Improvements (Disk Filters & Raw Pumps)	\$ 4,898,500
McCormick Taylor (NJDOT)	Route 7 Stormwater Pump Stations (part time observation services expected to begin first quarter 2026)	\$12,100,000 (pump station items)



Relevant Experience *continued*

Building Design/Engineering Services

PS&S, as a full service multi-disciplined firm, offers Architectural/Engineering (A/E) Services for municipalities, water and sewerage agencies/authorities, and related clients as a component of a mechanical/process project or as a stand alone service. The following is a representative list of projects for which PS&S has provided or is providing A/E services.

Musconetcong Sewerage Authority Roof/HVAC: The MSA has identified several issues with multiple buildings including the Service Building roof system where leaks have developed over time. The existing roof system is made up of a ballasted EPDM single ply membrane over the rigid insulation over the roof deck (metal or concrete) at the Service Building. PS&S performed a site visit on April 8, 2021 and July 30, 2022 to visually inspect the existing conditions. Based on our observations, the roof system is original to the facility and was installed around 1990. The roof systems show signs of age and typical wear from exposure to the elements over the many years of service. A roof system of this type has a typical life span of approximately 20 years. Based on our observations, the roof system is at least 30 years old and has met its expected life expectancy and should be replaced.

The MSA has also identified issues with the operation and control of the existing HVAC system(s) within the Service Building. The existing HVAC system installed around 1990 consists of rooftop units, exhaust fans, hot water boiler and pumps, reheat coils, perimeter baseboards, and unit heaters which are beyond their recommended useful life. The MSA personnel have also addressed issues in maintaining proper temperature control in many spaces throughout the building. Due to the age of the existing equipment and lack of controllability and frequent maintenance it is recommended to remove all existing equipment, except fans in the maintenance and storage areas, and replace with new HVAC equipment with Direct Digital Controls (DDC).

Bergen County Utilities Authority Substation Resiliency: PS&S was engaged by the BCUA to provide engineering evaluation, design, bidding, and construction phase services for resiliency work delineated under the Little Ferry Water Pollution Control Facilities (LFWPCF) Energy Resilience Bank (ERB) Substations Project. The purpose is to correct the current plant conditions that could result in damage to equipment and facilities causing loss of power and resulting in impact to the plant's ability to treat wastewater and cause back up of wastewater into the communities it serves. The Hazard Mitigation Plan (HMP) consisted of the buildings/infrastructure that must be protected in order to ensure conveyance and treatment of wastewater. The flood mitigation improvements are intended to limit service interruption and prevent loss of wastewater conveyance as well as protect against entry of water into structures. PS&S was awarded design and construction phase services to protect the plants six substations, the main substation, and the main switchgear building from flooding.

The main switchgear equipment currently occupies a single-story building on grade. This equipment will be elevated above the modeled flood elevation by constructing a new second story atop the existing building. In order to work within the limitations of the existing building's structural load capacity, the new construction is designed as a lightweight steel frame with metal stud walls. The addition is clad with thin brick and metal panels on the exterior to replicate the existing buildings and save weight, while the interior is finished in PVC wall panels over cement board to provide durable and easily maintained surfaces.



Relevant Experience *continued*

Passaic Valley Sewerage Commission Renovation of the Operations and Maintenance, Warehouse and Head-End Incinerator Buildings: PS&S prepared plans and specifications for the furnishing of all plant, labor, materials, supplies, equipment and other facilities necessary for renovating the existing Operations and Maintenance (O&M), Warehouse and Head-End Incinerator Buildings. The renovations were associated with locker room facilities, operator training facilities and general office and meeting room space, and also involved an extension to the second floor of the O&M Building. The renovation work included services in architectural, plumbing, HVAC, and electrical disciplines.

Joint Meeting of Essex and Union Counties Digester Roof Study/Replacement: PS&S investigated and summarized in a report the causes of leaks in the digester complex roof. PS&S prepared plans and specifications, conducted bid phase services and performed all construction phase services for the replacement of the digester complex roof.

Rahway Valley Sewerage Authority Renovation of Old Lab Facility: PS&S prepared all plans and specifications for the conversion of the old RVSA Lab facility into new administrative office space. Design included architectural, plumbing, HVAC and electrical disciplines.

Joint Meeting of Essex and Union Counties Powerhouse Roof Replacement: PS&S prepared plans and specifications, conducted bid phase services and performed all construction phase services for the replacement of the Powerhouse roof.

Rahway Valley Sewerage Authority New Laboratory Facility: PS&S provided all design, permitting and construction phase services for a new laboratory building.

Joint Meeting of Essex and Union Counties Aged Buildings Study: PS&S conducted an Aged Buildings Study of four JMEUC service buildings. The study involved detailed evaluations of both interior and exterior components including roof and wall systems, through research and physical inspection.

Other Recent A/E Projects

- Great Neck Water Pollution Control District - Roof Replacement
- Ocean County Utilities Authority - Metering Stations
- Tall Cedars Pump Station
- Ocean Gate Well House
- Rahway Valley Sewerage Authority (RVSA) - Preparation of Specifications for Overhead Lighting and Ceiling Replacement in the Pump Blower Building
- RVSA- Development of Generic Painting Specifications
- RVSA - Preparation of Specifications for Primary Service Building Chimney Repairs
- RVSA - Railing Replacement at Primary Facilities
- Rahway Valley Sewerage Authority – Digester Brick Replacement



Qualifications of the Project Team



Organization Chart





James R. Wancho, PE

Vice President/Principal in Charge
Water Resources

Education

Manhattan College: B.S.,
Civil Engineering/1983
M.E., Environmental
Engineering/1988

Credentials

Professional Engineer: New
Jersey and New York

Affiliations

Chairman, New Jersey Water
Environment Association, PE
Committee

New York Water Environment
Association

Association of Environmental
Authorities, Representative

American Society of Civil
Engineers

James Wancho will be responsible for overall project management, coordinating technical review of design documents, and providing technical guidance and expertise on the identified projects. He has over 40 years of water resources engineering experience and first-hand knowledge of several PVSC design projects. He has been involved in on-going FEMA coordination activities at the PVSC site. Jim has extensive experience in NJ Local Public Contracts Law and all phases of the NJ IBank funding process.

Relevant Experience

Principal in Charge, FEMA Support Services, PVSC, Newark, NJ. Served as Principal in Charge of PS&S engineering and permitting work with Witt/O'Brien's Associates. In response to Superstorm Sandy, PVSC, PS&S and FEMA worked toward the design of a floodwall, standby power system, and stormwater management system to mitigate against potential future flood damage to the PVSC's Newark plant. Through PS&S's efforts the NEPA Environmental Assessment had a Finding of No Significant Impact and HMGP Mitigation Plan funding was approved/obligated.

Project Manager/Lead Project Engineer, Evaluation of Secondary Treatment Facilities, PVSC, Newark, NJ. Lead project engineer for PS&S, participating in various phases of a study to develop positive solutions to obtain short and long-term effluent discharge permit compliance. Project tasks included: influent sewer and outfall hydraulic evaluations; statistical analysis of effluent data to determine target effluent concentrations; recommendations to improve performance of oxygenation tank mixing and sludge pumping systems; skimmings removal/treatment alternatives; and evaluation of oil and grease violations.

Project Engineer, Thickening Centrifuge Facility, PVSC, Newark, NJ. Project Engineer for the construction phase of installation of new thickening centrifuge facilities at the treatment plant to thicken primary and waste activated sludge prior to further processing at the Zimpro wet air oxidation process.

Principal in Charge, Wastewater Treatment Plant Expansion, Rahway Valley Sewerage Authority, Rahway, NJ. Principal in Charge for the planning and design of a major expansion to the treatment plant from a peak flow capacity of 60 mgd to 105 mgd. The PS&S led design team designed new influent pumping, screening and grit removal facilities; a primary settling tank; aeration system improvements; two final settling tanks; effluent filters; UV disinfection; effluent pumping and cascade aeration systems. The project also included replacement of sludge handling, mechanical, HVAC, and electrical systems, in addition to SCADA facilities and odor control systems.

Principal in Charge, Monmouth Park Racetrack Stormwater System, New Jersey Sports and Exposition Authority, Oceanport, NJ. Principal in Charge for design of facilities to achieve compliance with CAFO regulations, which prohibit the direct discharge of horse stable area runoff to receiving waters, up to a 25-year storm. PS&S designed a separate site drainage system to collect and convey CAFO regulated stormwater runoff via a new 78,000 gpm pump station to a detention basin for bio filtration pre-treatment and controlled gravity discharge to a nearby sanitary sewer for treatment/discharge.



John Vena, PE

Senior Director

Water Resources Engineering

Education

University of Vermont,
Burlington, VT: B.S., Civil
Engineering

Credentials

Professional Engineer:
New Jersey, New York,
Pennsylvania, and Virginia

Certified Public Works
Manager

Affiliations

Water Environment
Federation, Member

NJ Water Environment
Association, Member

American Water Works
Association

Association of Environmental
Authorities

Mr. Vena has over 40 years of engineering experience. His breadth of experience includes planning, design and construction administration of wastewater treatment facilities, conveyance systems, pumping stations, infiltration/inflow studies and combined sewer overflow (CSO) facilities. Mr. Vena's diversified background enables him to effectively manage a wide range of engineering and construction projects from initial concepts through construction, testing and start-up.

Relevant Experience

Bayshore Regional Sewerage Authority, Main PS & Sludge Return Building & PS No. 1 Repairs and Mitigation: Principal Advisor for preparation of public bid ready plans, specifications and an engineer's opinion of probable cost; obtaining funding through the New Jersey Environmental Infrastructure Trust; providing documentation required to obtain funding through FEMA; and engineering services through the bid and construction phases. The scope of work for this project included mitigation and restoration work for both the Main and the Return Sludge building & Pump Stations No 1 from damage caused by Superstorm Sandy. Some of the elements of the scope of the project included restoration of all of the process and electrical equipment, bypass pumping, and maintenance of plant operations. Mitigation work including dry proofing all three structures to elevation 14.00. This included raising electrical and control equipment, construction of an interior/ exterior flood wall around the structures, raising of exit doors and construction of safe means of entry and egress, and raising the electrical room floors approximately four (4) feet.

Two Rivers Water Reclamation Authority (TRWRA) – Serve as Engineer of Record for the TRWRA since 2013. Provide on call engineering services , annual inspections and reports on collection and treatment systems to advise the Authority on maintenance and repair of their assets. Calculate monthly and quarterly flow rates for purposes of billing customer and member towns. Attend monthly Authority meeting and prepare Engineer's reports. Provide engineering, design and construction administration services for capital improvement projects including; Aeration Basin Systems Upgrades, New Sludge Dewatering Facilities, Rehabilitation of Final Clarifiers including concrete coating and replacement of mechanical collection equipment, Upgrade of Headworks Facilities, Replacement of Motor Control Centers and Replacement of Pump Stations with Gravity Sewers. Also provide grant and funding support for many of the Authority's capital projects.

North Bergen Municipal Utilities Authority, Woodcliff Wastewater Treatment Facility Improvements – North Bergen, NJ: Principal in Charge for NJEIT funding application, preliminary design and design phase services associated with various improvements and rehabilitation to an existing 3.06 MGD wastewater treatment facility. Major scope items include preparation and painting of equipment, piping, stairways, etc. upgrades/ rehabilitation to an existing 1.2 MGD pump station, replacement of the existing odor control systems, upgrades/rehabilitation to the existing automated sludge withdrawal system, upgrades/rehabilitation of existing trickling filters, and various other improvements and rehabilitation throughout the plant.



Richard Crane, PE, BCEE

Senior Director

Water Resources Engineering

Education

City College of New York: B.E., Mechanical Engineering, 1980

Instructor, Rutgers, The State University of New Jersey, School of Engineering: Civil Engineering PE Review Course

Credentials

Professional Engineer: New Jersey, New York and Pennsylvania

Board Certified Environmental Engineer, American Academy of Environmental Engineers

Affiliations

New Jersey Water Environment Federation

New York Water Environment Federation

American Society of Mechanical Engineers

New Jersey Clean Energy Program – Renewable Energy Committee

Mr. Crane has 40 years of experience in process mechanical design, contract administration, feasibility studies, planning and project management for wastewater treatment plants, water pollution control plants and wastewater pumping station facilities throughout the United States and overseas. Additionally, he has served as project manager for several energy audit projects performed under the New Jersey Clean Energy LGEA program for various wastewater treatment plant facilities throughout New Jersey and has also conducted engineering and economic analysis for combined heat and power systems throughout New Jersey and New York.

Relevant Experience

Passaic Valley Sewage Commission (PVSC), Design for Wastewater Treatment Plant Facility - Newark, NJ*: Associate, managed the mechanical design effort for a new sludge dewatering centrifuge system for the PVSC wastewater treatment plant facility.

Berkeley Heights Township-Berkeley Heights NJ- Project and Technical Manager for the upgrade of the Authority's 3.1 MGD wastewater treatment plant to include the replacement of an existing sand filtration system with new mechanical disk filters, replacement of existing main influent pumping station, design of a peracetic acid disinfection system, liquid magnesium chemical feed system, instrumentation and controls, and upgrade to the existing waste gas flare system. Additional responsibilities included providing operational assistance to ensure that the plant is meeting its NJPDES permit requirements.

Western Monmouth Utilities Authority (WMUA)- Manalapan, NJ. Prepared a comprehensive hydraulic evaluation, pump selection and mechanical process design for the upgrade of the plant's existing 8.8 MGD influent wastewater pump system including instrumentation and controls, HVAC, electrical and plumbing design.

Bayshore Regional Sewerage Authority, Sludge Concentration Tanks Rehabilitation Project - Union Beach, NJ: Prepared an extensive Alternatives Report evaluating cost effective options to upgrade the existing sludge collection mechanical equipment for four (4) Sludge Concentration Tanks, recommended improved process thickening operations improved odor control measures (including replacement of existing fiberglass cover system for each tank. Project Manager for the preparation of Bid Documents and Construction management Services for the replacement of Sludge Concentration Tank mechanical collection equipment and for the installation of new primary sludge pumps and controls.

Western Monmouth Utilities Authority (WMUA) Anaerobic Digester System Upgrade Project - Manalapan, NJ Project, and Technical Manager for the upgrade of the Authority's Anaerobic Digester System. Design features included the installation of new gas holder floating covers and linear motion digester mixing systems for both the primary and secondary digesters, new spiral sludge heat exchangers, digester cleaning, new digester gas collection and piping system, new enclosed waste gas flare, instrumentation and controls.

Two Rivers Water Reclamation Authority (TRWRA)- Performed a hydraulic review of the Authority's Pump Station Number 6 to resolve cavitation issues experienced by the existing pumping system. Prepared a written report identifying potential causes of cavitation and recommendations to resolve same. Conclusion was that air entrainment and not cavitation was the main culprit of negative pump performance and pump failure. Resolution was to provide new pumps operating at a slower speed which resolved the issue.



Sandra Smith, PE

Senior Lead Engineer

Water Resources Engineering

Education

Stevens Institute of
Technology: Bachelors of
Engineering, Environmental
Engineering/2003

Credentials

Professional Engineer:
New Jersey

Affiliations

American Water Works
Association (AWWA)

Water Environment
Federation (WEF)

Ms. Smith is a Project Manager with over 20 years of design and management experience of water, wastewater and storm water treatment and conveyance projects throughout the proposal, preliminary design, permitting, and bid and construction phases. Ms. Smith specializes in assisting clients in obtaining funding through NJ IBank, FEMA and the New Jersey Economic Development Authority financing programs throughout her career.

Relevant Experience

PVSC Alternate Wet Weather Treatment Protocol Project: Project Manager responsible for the Structural Basis of Design, Civil/Site Design, Assistance with NJ IBank Funding, Bid Phase Services and Construction Administration Services for this project. The scope of this project includes a proposed secondary bypass to be installed from the primary influent conduit, downstream of the location where sludge recycles are returned, to carry flow to the Northwest corner of the Final Clarifier channel, where it would mix with secondary effluent and flow to disinfection and discharge. The below grade bypass piping consisted of approximately 150 lineal feet (LF) of 96" diameter steel piping and approximately 750 LF of 72" diameter steel piping. The project also consisted of approximately 500 LF of 42" diameter piping to be installed below grade for the proposed sludge recycle reroute. The project also required rerouting of existing stormwater piping along the bypass and recycle reroute alignments including forty-two storm structures and 1,698 LF of storm piping ranging from 12" – 48" diameter piping. The project is currently in the construction phase.

PVSC Wallington Pump Station Improvements Rehabilitation Project: Senior Lead Engineer charged with managing the project through the latter part of the design phase, permitting, bid phase and construction phase of the project. Tasks also included assisting PVSC with obtaining NJ IBank funding for the project. The project entailed replacing the shaft driven pumps; replacement of the load resister banks with VFD's; replacing the electrical equipment; address screenings in the wet well; bringing the building into compliance with current codes; interior renovations; reconstructing the main entrance stairs; construction of an access ramp; replacing the exterior windows and doors; replacing the interior doors re-roofing the building; repairing and painting the stucco; repointing the brick and waterproofing the building.

PVSC, Stormwater Collection System Improvements: Project Engineer responsible for design, bidding and construction management of stormwater system improvements required to realign the existing stormwater system within the PVSC wastewater treatment plant site to convey the stormwater to three (3) stormwater pump stations. Storm drainage system improvements to be constructed as part of PVSC mitigation plan for storm resiliency. Project is currently in design phase and requires hydraulic modeling; field investigation inclusive of cleaning and CCTV of existing stormwater collection system, test pits to determine the location and elevation of existing utilities, survey, and soil borings; preparation of public bid ready plans and profiles of proposed improvements; details for support of stormwater collection system within existing soils, on existing structures, on existing piles, or installation of new piles; coordination with the NJ IBank and FEMA for funding; and coordination with proposed mitigation projects to be constructed.

PVSC Sump Pump Relocation and Generator Provisions: Project Engineer assisted in preparation of design documents, NJ IBank funding application and FEMA funding application for providing a stand-by generator setup for a roll-in generator system and interface with electrical distribution via automatic transfer switch. Project consists of providing a stand-by power electrical system setup with a roll-in stand-by generator system which can be tied into temporary stand-by power electrical distribution to power sump pumps and de-watering pumps located in tunnels, basements, and galleries.



Richard Padgitt, PE

Lead Engineer

Water Resources Engineering

Education

Rutgers University: B.S.,
Bio-Environmental
Engineering/2012

Credentials

Professional Engineer:
New Jersey

Affiliations

NJ Water Environment
Association (NJWEA)

American Water Works
Association (AWWA)

Mr. Padgitt serves as Project Engineer for wastewater, potable water, storm water and gas utility projects. His responsibilities include all aspects pertaining to the progression of a project from conception through construction including design, feasibility studies, project management and at times drafting. Recent specific projects include design/installation of new/rehabilitated gas transmission mains, water treatment plant upgrades, wastewater treatment plant, sanitary sewer pump station, water mains, sanitary sewer main (gravity and force main), wells and a variety of other projects related to water/wastewater infrastructures.

Relevant Experience

PVSC – Newark, NJ: Designer for PS&S' services agreement with PVSC for general engineering and tunnel rehabilitation. Damage from hurricanes has left PVSC vulnerable to flooding and electrical outages. PS&S has been appointed to address actions for flood protection and self-sustainment. As part of the design team appointed to design a system of bulkhead walls to be located within the tunnel to prevent plant-wide flooding and water damage. Utilizing/manipulating point cloud data to accurately portray the existing conditions of the tunnel, and design system able to protect existing system operations and infrastructure(s) from flooding.

Jackson Township Municipal Utilities Authority (JTMUA) Six Flags Great Adventure Water Treatment Plant Replacement – Jackson, NJ: Lead Design Engineer. Design of a 3,000 GPM 4-log certified greensand plus water treatment plant, modifications to existing wells (7, 12, 14, 17), installation of 5,250 LF of 16 CLDIP, design of a 1-million gallon elevated water storage tank, demolition of existing water treatment plant and associated buildings/piping/apurtenances. Act as Project Manager during construction phase of project.

Western Monmouth Utilities Authority (WMUA) Anaerobic Digester System Upgrade Project-Manalapan, NJ : Project Engineer for the upgrade of the Authority's Anaerobic Digester System, specific design elements included the installation of new gas holder floating covers and linear motion digester mixing systems for both the primary and secondary digesters, new spiral sludge heat exchangers, digester cleaning, new digester gas collection and piping system, new enclosed waste gas flare, instrumentation and controls. Project included significant coordination with electrical, HVAC and plumbing disciplines to ensure all proposed equipment and associated piping systems would fit within the existing facility and operate per WMUA protocols. Coordination and project elements in support of NJIB funding.

Berkeley Heights Township-Berkeley Heights NJ: Project Engineer for the upgrade of the Authority's 3.1 MGD wastewater treatment plant to include the replacement of an existing sand filtration system with new mechanical disk filters and instrumentation and controls. Scope of services required various detailed layouts and hydraulic analyses associated with various vendor-specific systems. This project was part of a larger plant upgrade which obtained NJIB funding.

Berkeley Heights Township-Berkeley Heights NJ: Project Engineer for the investigation, troubleshooting, and resolution of odor issues observed at the relief valves of the primary digester tank. PS&S investigated the system, discovered multiple issues with the state of the gas collection system, operation of pressure regulating valves and lack of ignition of existing flare controls system. PS&S resolved the issues, which included cleaning, replacement, and installation of new valves, sensing lines and gas piping, as well as installation of a new automated flare ignition control system. The modifications allow the gas collection and flaring system associated with the anaerobic digester to function properly to limit odors and the flare no longer poses dangers when ignition is required.



Jason Neff, PE

Senior Engineer

Water Resources Engineering

Education

University of
Delaware: B.C.E., Civil
Engineering/2013

Credentials

Professional Engineer: New
Jersey

NASSCO: Pipeline
Assessment Certification
Program (PACP) Expert

NASSCO: Manhole
Assessment Certification
Program (MACP) Expert

NASSCO: Lateral
Assessment Certification
Program (LACP) Expert

Affiliations

National Association of
Sewer Service Companies
(NASSCO)

American Society of Civil
Engineers (ASCE)

American Water Works
Association (AWWA)

New Jersey Water
Environment Association
(NJWEA)

Water Environment
Federation (WEF)

Mr. Neff is a Project Manager and Design Engineer with 10 years of experience in the design and preparation of construction plans, specifications, cost estimates, permit applications, calculations and other technical aspects pertaining to gas, civil, potable water, storm water, wastewater, and combined sewer separation engineering projects from conception through construction. He is a certified professional in the rating of pipeline, manhole and lateral conditions, and performs regular field inspections of construction and demolition phases on water resources projects.

Relevant Experience

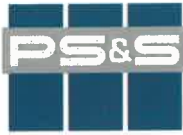
City of Newark, Haynes Avenue Water Main Rehabilitation – Newark, NJ: Field inspector of construction phase services for the repair, replacement and construction work done on an underground low-pressure water main, running parallel with a high-pressure main in a culvert under the Haynes Avenue bridge in Newark. The 12" low-pressure main that runs beneath the nearby Amtrak train tracks was injected with a new liner to prevent further leakage. New valves and elbow joints were installed, and new concrete thrust blocks were formed.

City of Paterson Sewer Separation at CSO 023 – Paterson, NJ: Project Manager responsible for the design, permitting and construction administration services for combined sewer separation at CSO 023. The project goal is to separate storm and sanitary flows to CSO 023, an existing Combined Sewer Overflow structure east of 2nd Avenue. The current proposed work includes installation of a separate storm water drainage system along 2nd Avenue and along its seven (7) cross streets; modifications to the existing combined sewage conveyance system (future sanitary) to tie into PVSC's interceptor trunk sewer at a new location; and modifications to the existing CSO regulator through closing its connection to PVSC's interceptor trunk sewer, thus becoming a storm water chamber prior to outfall into the Passaic River. These developments will reduce the cost for sanitary sewage treatment, improve the overall sanitary and storm water systems in the city, and improve water quality in the Passaic River.

East Orange Water Commission, Water Main Replacement Over Garden State Parkway – East Orange, NJ: Field inspector of construction phase services for the demolition, repair and/or replacement of fifteen existing potable water mains hanging beneath nine bridge crossings on the Garden State Parkway.

Gordon's Corner Water Company (GCWC), Manalapan Grove – Manalapan, NJ: Field inspector for the construction phase of water mains and services within the proposed Manalapan Grove residential development. Ensured that the contractor installed the mains, laterals and meter pits properly and restored trenches with appropriate backfill in accordance with the project plans and Township standard details. Inspections documented with daily reports and photos.

New Jersey American Water (NJAW), Glendola Raw Water Main Extension Project – Wall Township, NJ: Field inspector for the construction phase of a new 30" raw water main inlet to the Glendola Reservoir. The new main eliminated hydraulic issues at the previous orientation of the piping system and created a dedicated feed to the reservoir for both existing surface water sources. PS&S provided professional engineering services that resulted in bid ready plans, specifications, construction cost, and all necessary permitting to allow for dedicated raw water main discharge into the Glendola reservoir. Further ensured that the contractor installed the main and restored trenches with appropriate backfill in accordance with the project plans and Township standard details. Inspections documented with daily reports and photos.



Education

Miami University: B.A.
Architecture/1975,
M.Arch, Architecture/1977

Columbia University: Paris
and The Urban Form (Post-
Graduate Study)

Credentials

Registered Architect:
New Jersey, New York,
Pennsylvania, Connecticut,
Massachusetts, Maryland,
Ohio, North Carolina,
Kentucky, Georgia, Indiana,
and Colorado

Professional Planner:
New Jersey

Affiliations

American Institute of
Architects (AIA)

National Council of
Architectural Review Boards
(NCARB)

International Society for
Pharmaceutical Engineers
(ISPE)

Institute of Food
Technologists (IFT)

Vertical Flight Society,
Member

Bonnie Brae Adolescent
Treatment Center, Member
of Board of Trustees

ProPapa Missions America,
Board Member

Wardlaw+Hartridge School,
Trustee Emeritus

Harry T. Osborne, AIA, PP

Executive Vice President
Architecture & Engineering Group

Mr. Osborne has over 40 years of architecture experience. His involvement in architectural design encompasses significant domestic and international expertise producing creative design solutions for numerous Fortune 500 companies. Mr. Osborne possesses a strong commitment to integrity, service, collaboration, innovation, and design. He has been the project principal for project solicitation, feasibility studies, planning and conceptual design, project implementation, management, as well as participation in commissioned value engineering studies.

Relevant Experience

Union County 911 Dispatch Center Expansion – Westfield, NJ. Principal in Charge for the redesign of the Westfield Police Station and 911 Dispatch Center. The project included heavy demolition and the construction of office space in what was a SWAT bay and two bat truck storage garage and smaller office area. Construction of this \$3.3 million dollar project was conducted while the remaining portions of the building were in use as a police station and dispatch center and as such services could not be interrupted. This project is ongoing.

City of Paterson, Redevelopment of Public Safety Dispatch Center – Paterson, NJ: Project Principal for the renovation of an existing 133,000 sf, three and one story building to house the City of Paterson OEM and 911 Dispatch Center including offices, amenity spaces and training rooms. The project includes site improvements and exterior façade renovations encompassing PS&S full architecture and engineering team. This project projected to start construction in early 2025.

Essex County, Independence Park New Building and Site Improvements – Newark, NJ: Project Principal for the design and construction of a new 3,600 SF community building to support year-round public programming. Located within one of Newark's most active parks, the facility includes multi-purpose space, restrooms, and storage, and was designed to reflect the surrounding neighborhood while enhancing safety, accessibility, and community use.

Essex County Park Administration Building – Newark, NJ: Senior Lead Architect for the renovation of a 25,320 sf, historic 1916 Renaissance Revival-style office building. Intent was to provide updated offices for the parks department and county sheriff, while repairing the exterior and maintaining the building's historic character. Important to the county parks department's history.

New Jersey Turnpike Authority (NJTA), Design Services for Replacement of State Police Facilities – Bloomfield, Newark, Bass River, and Moorestown, NJ*: Principal Architect for the replacement of four New Jersey State Police (NJSP) barracks buildings, two on the New Jersey Turnpike and two on the Garden State Parkway. The project required a detailed site analysis for selection of two new sites. The building design is for a new, state-of-the-art State Police barracks "prototypical" building design that is flexible and adaptable for three of the locations and a distinct building design for the Newark site. This was accomplished while developing cost-effective contract documents, including plans, specifications, and estimates (PS&E), which met the applicable environmental permit requirements. Each facility is sustainable, fits the needs of the NJSP, and is designed to current codes and Commission on Accreditation for Law Enforcement Agencies standards. The Design Services for the Replacement of State Police Facilities, Bloomfield Station, was awarded the 2015 Distinguished Award by the American Council of Engineering Companies of New Jersey (ACEC/NJ) in the Engineering Excellence Awards, as well as the Distinguished Engineering Award presented by the New Jersey Alliance for Action.



Gregory J. Ranft, PE

Director

Structural Engineering

Education

University of Wyoming:
M.S., Civil Engineering/2011
B.S., Architectural
Engineering/2010

Credentials

Professional Engineer:
New Jersey

OSHA 40-Hour HAZWOPER
Certified

Affiliations

American Institute of Steel
Construction

American Concrete Institute

American Society of Civil
Engineers

Mr. Ranft serves as a Director assisting in the design of a wide range of bridge, building and infrastructure projects. He is responsible for analysis and design of structural elements such as foundations, abutments, retaining walls and superstructures. Mr. Ranft is proficient in and utilizes various structural analysis software such as RAM/RAM Elements, Revit and AutoCad to produce construction documents. Mr. Ranft also performs construction administration duties such as review of shop drawings submittals, field visits, condition assessments, and responding to Contractor RFIs.

Relevant Experience

Passaic Valley Sewerage Commission (PVSC) – Newark, NJ: Structural Engineer during DSDC Design of cast-in-place concrete bulkheads within underground network of highly congested access tunnels. Bulkheads with submarine doors designed to resist hydrostatic head pressure of up to 25 feet.

PVSC Wallington Pump Station Improvements Rehabilitation Project: Structural Engineer during Value Engineering, Bidding and DSDC. The project entailed replacing the shaft driven pumps; replacement of the load resister banks with VFD's; replacing the electrical equipment; address screenings in the wet well; bringing the building into compliance with current codes; interior renovations; reconstructing the main entrance stairs; construction of an access ramp; replacing the exterior windows and doors; replacing the interior doors re-roofing the building; repairing and painting the stucco; repointing the brick and waterproofing the building.

Hack Bridge Cable Crossing – Jersey City, NJ: Reinforcing of draw bridge tower arms to support new power and communication cables. 3D Laser scan and BIM modeling to verify existing conditions and determine routing/placement of cable bundles.

City of Yonkers, Saw Mill River Daylighting Phase 2 – Yonkers, NY: 78-foot, three-span pedestrian bridge and 30-foot span vehicular precast concrete arch bridge designed for AASHTO HL93 loading over Saw Mill River. Design and coordination of foundations, walls and steel framing supports with Landscape Architect and Civil Engineer. For Pedestrian bridge, coordination with Excel Bridge Manufacturing CO. for bridge design along with design of cast in place cantilevered concrete retaining wall supports and abutments For Vehicular bridge, coordination with Contech Corp. for the bridge design along design of cast in place spread footings.

New Jersey American Water, Jumping Brook Bridge – Neptune, NJ: 66-foot simple span prestressed precast concrete box beam bridge providing access to water treatment plant. Analysis of bridge overloaded by 140,000-pound mobile crane, which was in excess of AASHTO HS20-44 + 10% original design load. Analysis of precast box girders was undertaken to determine extreme fiber tensile and compression stresses and flexural and shear strength capacities. Report prepared with conclusions, recommendations and calculations.

USA Environment, Culvert Design – Woodbridge, NJ: Pre-cast box culvert and retaining walls for retention pond. The culvert spanned a slurry wall, sat on weak soil, and required absolute waterproof connections, requiring additional foundations under the culvert and detailing of wing-wall and culvert connections.



Thomas J. Murphy, PLS

Senior Vice President

Survey Services

Education

University of Florida:
Bachelor of Science/1989

Credentials

Professional Land Surveyor:
New Jersey and Virginia

Affiliations

Association of Professional
Pipeline Surveyors (APPS),
Vice President Currently

New Jersey Society of
Professional Land Surveyors

Builders League of South
Jersey

President of CJC 2008-2009

Years of Experience

35 years

Employment History

PS&S

12/2019 - Present

DW Smith Associates

1997 - 2019

Serving as Senior Vice President, Mr. Murphy has executed and supervised numerous Boundary, Topographic, Wetlands, and Route Survey assignments along with Right of Way plan preparation in support of Final Engineering Design. Mr. Murphy utilizes his conventional and advanced survey technology experiences to choose the proper tool to complete the project on schedule and on budget. Mr. Murphy's knowledge and experience helps PS&S know when to use Drones Terrestrial Scanning, Real Time Kinematic GPS or a Fully Robotic Total Station. Mr. Murphy recognizes that knowing where to use the proper equipment, while providing clients with the necessary data, is critical to a project's success. Mr. Murphy has expanded upon conventional survey methods with the application of advanced technological applications such as Mobile Liner, Drone Liner, Global Positioning Systems (GPS), AutoCAD technology, robotic data collection and project data analysis.

Relevant Experience

Confidential Client,: Account Manager responsible for coordination and management of pipeline construction survey crews from New Jersey through Texas. Coordination of ongoing survey services to keep pipeline construction crews operational.

69 Kv Transmission Project – Quinton to Artificial Island: Project Manager responsible for coordination of field and office personnel to prepare base maps including property line and right of way analysis. Project required field stake out of all proposed structures (285+) along with new easement documents which allowed client to secure new Right-Of-Way for the transmission line.

Green Infrastructure Design - Gravesend Bay, Brooklyn, Kings County, New York: Working with prime Parsons on this project. Supervise multiple survey crews collecting topographic and right-of-way data to support Green Infrastructure Design Projects. Phase I of the project included approximately 20,000 LF of roadway and the limits of the survey included face of building to face of building on either side of the streets.

Garden State Parkway Interchange 83 – Toms River, NJ*: Principal land surveyor responsible for asbuilding the roadways, obtaining Highway Occupancy Permit and securing proper Maintenance and Protection of Traffic equipment, collecting cross-section data along the areas for proposed widening and proposed traffic light, collecting cross-section data at each intersection including edge of pavement and crown line, and mapping including above-ground evidence of utilities, utility poles, overhead wires and trees within the limits of the existing right-of-way. 09/2012 - 01/2017

Morristown Airport – Morristown, NJ: Principal land surveyor responsible for the coordination of boundary, GPS, and topographic surveys, along with wetlands delineation and survey. Services included permitting, design and reconstruction of the control tower for the airport.

Ocean County Route 547 – Manchester Township, NJ: Principal land surveyor responsible for mapping and right-of-way plans/parcel acquisition for future roadway widening, including topographic mapping, baseline establishment, deed mosaics, monumentation, and deed descriptions for acquisition.

Camden County – Cherry Hill, NJ: Principal land surveyor responsible for verifying existing condition for 2.2 miles of Chapel Avenue. Prepare tie sheets for traverse recovery.



Brian McPeak, PP, AICP

Vice President

Environmental Services

Education

University of California
Berkeley: B.A., Physics/1985

CalPoly, San Luis Obispo:
Master of City and
Regional Planning (with
Distinction)/1993

Credentials

Professional Planner:
New Jersey

American Institute of
Certified Planners

Mr. McPeak is a skilled program management and project management professional with diverse experience in environmental and land use planning. He is proficient in natural resource and land use management particularly with regard to water resources, water fronts and the interface of the built and natural environment. Mr. McPeak has program and project management experience in environmental planning, land use permitting, and site remediation.

Relevant Experience

PVSC Rutherford Properties - Principal-in-Charge for assisting PVSC with obtaining a Flood Hazard Area Delineation and preparation of a letter of interpretation application which is currently submitted to the NJDEP.

PVSC - Principal-in-Charge for assisting PVSC with preparation of a NJDEP Land Use Permit for Contract B213 Advanced Electrical and B040 Standby Power Projects. The permit application for contract B213 is anticipated to be submitted to the NJDEP in early December.

BRSA – Union Beach, NJ: New Jersey Department of Environmental Protection (NJDEP) required that BRSA continuously sample effluent flows from BRSA's two plant treatment trains at a single location where these treatment trains combine. As the junction chamber where the treatment flows join is located within a regulated wetland, an elevated walkway was required to enable the collection of samples. Services included design of the walkway and preparation and submittal of applications for permits from both NJDEP and the US Army Corps of Engineers.

BRSA – West Keansburg, NJ: Provided land use permitting support for the BRSA West Keansburg Pump Station (WKPS) Odor Control Improvements Project. The WKPS is bound by wetlands to the north and east and a residential area to the west. The site is also within NJ's Coastal Zone and a designated Flood Hazard Area. Support activities included providing guidance on locating replacement equipment and other elements of project design.

BRSA – Union Beach, NJ: Provided NJDEP land use permitting services in support of BRSA's Contract 74S "NIRO Incinerator Repairs & Mitigation" project. This project required the installation of a new mercury scrubber on the exterior of the existing incinerator building in an area that required a Coastal Area Facility Review Act (CAFRA) permit. Services included preparation and submittal of an application for a CAFRA Permit.

BRSA – Union Beach, NJ: Provided land use permitting support for the BRSA Power System Flood Mitigation Project. Proposed improvements included new equipment and transformers installed on platforms at heights sufficient to mitigate against impacts associated with the regulatory flood. Based on a Coastal Zone Management Plan consistency determination issued to FEMA, NJDEP determined that no CAFRA permit was required but that a Freshwater Wetlands Protection Act permit was required for this project simply because of a conservation easement that exists on BRSA's property.



P. Steve Oliver

Senior Director

Environmental Services

Education

Washington University:
M.S. Engineering,
Environmental/Air
Quality/1972
B.S. Mechanical
Engineering/1971

Credentials

Rutgers Noise Technical
Assistance Center:
Certification Course
in Community Noise
Enforcement

Affiliations

Association of Environmental
Professionals

Air and Waste Management
Association

NJDEP Air Quality
Permitting Program (AQPP)
Transformation Committee

NJDEP AQPP Industrial
Stakeholders Group
Representative

Mr. Oliver has over 50 years of extensive and diverse experience in environmental permitting and regulatory compliance. As Chief Air Quality and Noise Engineer, Mr. Oliver is responsible for the comprehensive management and direction of PS&S air quality and noise services for a broad range of major environmental permitting and compliance projects for a wide variety of utility, public, institutional, industrial, pharmaceutical, chemical, refinery, and energy clients. In this capacity, Mr. Oliver has been responsible for directing and supervising air and noise impact assessments and analyses; obtaining federal, state and municipal air permit approvals; comprehensive atmospheric dispersion modeling and detailed health risk assessment modeling; providing innovative solutions and successful resolutions of complicated air and noise compliance and permitting issues; liaison with regulatory agencies at all governmental levels; and the presentation of expert testimony at governmental hearings and meetings. Prior to joining PS&S, Mr. Oliver directed activities associated with environmental affairs, including environmental compliance and pollution control activities, for a major Metro New York area utility.

Relevant Experience

Secaucus Municipal Utilities Authority – Project Director who assisted the SMUA with re-permitting the generator to a diesel only operation including assistance with resolving a NJDEP issued permit violation

Atlantic City Air Quality Modeling and Monitoring Programs: Served as Project Director for preparation of a detailed Air Quality Modeling and Monitoring Programs specifications document for the Atlantic City Region, and successfully obtained NJDEP approval of the document. The document included detailed specifications and requirements for conducting analyses of historical air quality, traffic and meteorological data, atmospheric/air quality dispersion modeling and ranking of monitoring locations; instrumentation and siting of a network of ambient air quality and traffic monitoring stations; operation and quality assurance; and data handling/reduction and monthly reporting.

Bergen County Utilities Authority – Little Ferry, NJ: Served as Project Director for performing sound level monitoring and evaluation of noise levels from cogeneration facility, and provision of recommendations for noise control and abatement measures for the equipment and its operation.

Rahway Valley Sewerage Authority (RVSA) – New Jersey: Served as Project Director for the Title V Air Permitting for a Cogeneration Facility at the Authority site, and for obtaining subsequent NJDEP Air Permit Modifications for the facility.

Union County Utilities Authority (UCUA) – NJ: Served as Project Director for the Title V Air Permitting for the Facility, subsequent Title V Air Permit regulatory compliance activities, NJDEP emission statement reporting submittals, obtaining subsequent NJDEP Title V Air Permit Modifications for the facility, and for the NJDEP air permitting of the landfill gas venting system at the site.



Marissa Magura

Lead Project Scientist

Environmental Services

Education

M.S Environmental Studies,
Adelphi University Garden
City NY/2011

B.S. Biology/Environmental
Science Minor, Quinnipiac
University, Hamden
Connecticut/2009

Rutgers Continuing
Professional Environmental
Education Courses

Credentials

OSHA 40-Hour HAZWOPER
Certified

OSHA 8-Hour Annual
Refresher

through 2022

NJDEP Environmental Air
Compliance Auditor

Affiliations

American Standard Testing
and Materials (ASTM)
Environmental Committee
E50.02 2018-Present

NJDEP Air Quality Industrial
Stakeholders Group Rep.

Ms. Magura is a skilled Environmental Scientist with over ten years of professional experience in the environmental field with a diverse background in consulting services and ecological management services for the State of New Jersey. Ms. Magura current responsibilities are focused on environmental facility compliance services including: management of environmental permits, permit negotiations, modifications and renewals, and initial permit applications. Ms. Magura has extensive experience with NJDEP and Title V air permits, NJPDES permits, Storage Tank permits and compliance, drinking water permits, wastewater permits, and oil prevention plans. Ms. Magura's current and previous projects range from landfills, sewage treatment plants, medical facilities, recycling centers, department of public works, natural gas pipelines, and a variety of industrial and commercial properties. Prior to joining PS&S Ms. Magura focused on Phase I Environmental Site Assessments in accordance with ASTM Standard Practice E1527 and Preliminary Assessments in accordance with N.J.A.C. 7:26E, for a variety of public and private entities. Ms. Magura continues to provide environmental due diligence assessments for developers, substations, and commercial properties.

Relevant Experience

Berkeley Heights Sewage Plant – Berkeley Heights, NJ: Serve as the Engineering for the Municipality. Services include engineering design and air permitting services. Performed a comprehensive air inventory and prepared general permits for an AST and boilers. Reviewed existing 1996 air permits and prepared a new PCP for a lime system and a terminated the PCP for a generator and applied for a general air permit, saving the township money. Prepared a PCP for three digesters, a flare system, and boilers using digester gas. Coordinated each step with engineers to confirm applicability of design is appropriate for design and air permitting requirements. Act as liaison between PS&S and Berkeley Heights, and the NJDEP.

Bayshore Regional Sewerage Authority (BRSA) – Union Beach, NJ: Currently serves as BRSA's Environmental Consultant for Title V air permitting and compliance services. Provide technical guidance in support of BRSA's power resiliency program including the selection of new natural gas emergency generators to be permitted for on-demand services with the power grid. The process includes selection or design of equipment with the applicable SOTA requirements, SCR for NOX reductions, and control technologies to allow for optimal running of equipment to satisfy client objectives. Supporting tasks include a health risk assessment for HAPs and modification of the Title V Operating Permit. PS&S also obtained three general operating permits for natural gas emergency generators.

Carrier Clinic Wastewater Treatment Plant – Belle Mead, NJ: PS&S currently serves as the Engineer providing Water Engineering, Treatment System Upgrade Designs, and NJPDES permit management. Compliance duties include permit management, coordination of sampling, data analysis, preparation and submittal of monthly and annual Discharge Monitoring Reports (DMRs) and sludge reports, and reporting of exceedances. Supporting duties include compliance support, preparation and submittal of Affirmative Defenses, management of subconsultants, permit stays, and working with the NJDEP to obtain an Administrative Consent Order (ACO).



David Marko

**Senior Project GIS Analyst
Environmental Services**

Education

Rowan University:
B.S., GIS/2016

Rowan University:
B.S., Planning/2016

Credentials

FAA Part 107 Remote Pilot
License

Affiliations

Urban and Regional
Information Systems
Association (URISA) Mid-
Atlantic Chapter

Mr. Marko is a GIS professional that graduated from Rowan University with dual Bachelor of Science degrees in GIS (Geographic Information Systems) and Urban Planning. His experience includes utilizing GIS software that include web application development, geospatial modeling, aerial imagery classification, remote sensing, and database maintenance. Mr. Marko possess extensive experience with Esri's ArcGIS suite of applications as well as Microsoft applications. Mr. Marko is proficient in other programs such as AutoCAD, Sketchup, and has basic knowledge of SQL and python programming languages.

Relevant Experience

Camden County Municipal Utility Authority (CCMUA) – Camden County, NJ: Compiled a comprehensive database of environmental features within the county used in the creation of a web mapping application to showcase green infrastructure projects within the county. The database compilation proved essential in the planning and analysis of current and future projects to maximize efficiencies within both county and city agencies. And serves as a template for future planning projects within the county.

Camden County Municipal Utility Authority (CCMUA), Green Infrastructure Web Application – Camden County, NJ: Created a web application for the entirety of Camden County, mapping all green infrastructure projects. Projects had important data embedded within each location that was crucial for various employees across the company. The web application was developed to spatially represent each project within the county, its maintenance schedule, and stormwater capture rates.

CEP Renewables, Solar Siting Analysis – New Jersey: Objective of the project was to provide parcels that are prime locations for solar application to the client. The client provided criteria for these sites which included counties, parcel acreage, land use, zoning, and environmental features. ArcGIS was utilized for this analysis to provide potential solar sites, in the form of figures and tables, over the course of five months. Goal of the project was to provide sites that were brownfields, water features, or historic fill, within particular counties in New Jersey that were in close proximity to substations that fit a minimal parcel acreage.

CEP Renewables – Bergen, Essex, Union, Passaic Counties, NJ: Compiled environmental resources within said counties for environmental constraints analysis and siting of potential small scale solar facilities. These datasets included state and federally mapped wetlands, streams, and waterbodies, as well as areas, riparian zones, threatened and endangered species habitat, zoning, known contaminated sites, and areas of historic importance. These datasets were compiled into a master GIS database and used for constraints, proximity, and routing analysis to better inform the client of site suitability and planning.

Confidential Client, Proposed Penneast Pipeline, FWW and FHA Application – New Jersey: GIS Specialist for the NJ portion of a proposed 130-mile natural gas pipeline from Luzerne County, PA to Mercer County, NJ. Responsibilities included the compilation and maintenance of a GIS database containing environmental features along the proposed route, assistance with the daily preparation of mapping to support decision making on routing and avoidance of environmentally sensitive areas as well as producing GIS mapping product deliverables for the FWW and FHA permit application.



Timothy M. Conlon, PE, LEED AP

Vice President

MEP Engineering

Education

Rutgers University:
B.S., Mechanical
Engineering/1985

New York University:
Certificate in Electrical
Systems Design/1989

Credentials

Professional Engineer:
New Jersey, New York,
Connecticut, Massachusetts,
and Maryland

LEED Accredited
Professional

Affiliations

American Society of Heating,
Refrigerating and Air
Conditioning Engineers

Mr. Conlon has over 39 years of experience in the design and project management of mechanical and electrical systems for public agencies, higher education and K-12 schools, offices, industrial facilities, laboratories, institutional facilities, hospitality, and health care. Responsibilities include budgeting and production scheduling; systems conceptual design, comparison and selection; existing systems analysis and evaluation; equipment selection; system layout; specification writing; construction services; and project management.

Relevant Experience

Bergen County Utilities Authority, Little Ferry Water Pollution Control Facility, Energy Resilience Bank Electrical Substations Upgrade Project – Little Ferry, NJ: The facility is a 109 million GPD critical public secondary wastewater treatment facility. In response to damage caused during Superstorm Sandy, and in an effort to prevent it from happening again, the scope of the project included raising up and replacement of the 26 kV / 4.16 kV Main Substation Switchyard and six Unit Substations including 4.16 kV / 480V Transformers, Switchgears, Motor Control Centers, and electrical control and SCADA system. Served as the MEP Principal-In-Charge.

Rahway Valley Sewerage Authority (RVSA) – Rahway, NJ: Project Manager and HVAC engineer for various projects, including replacement of two existing air-to-air heat recovery units in the sludge dewatering building, installation of radiant heating in maintenance garage, control room ventilation, and others.

Rahway Valley Sewerage Authority (RVSA) – Rahway, NJ: Project Manager for replacement of two existing air-to-air heat recovery units in the sludge de-watering building.

Rahway Valley Sewerage Authority (RVSA) – Rahway, NJ: Project manager for replacement of two existing air-to-air heat recovery units in the sludge de-watering building. The original equipment was only marginally adequate. Since the original equipment manufacturer was no longer in business, PS&S located a custom air handling unit manufacturer, who could fabricate replacement units with adequate (increased) capacities, while still fitting in the original units' footprints. Since the building's hot water distribution system had no spare flow capacity available, but the boiler was not being utilized to its full firing capacity, the controls were adjusted to provide a greater temperature drop across the system re-heat coils, increasing the boiler plant output without replacing the boilers, pumps or any piping.

Borough of Flemington, Police Station Renovation – Flemington, NJ: MEP Principal-In-Charge & QA/QC for the renovation of the lower level Processing Area of the Flemington Police Station, and included secure entrance at a future Sally Port location, an Interview Room with one way glass into the future Patrol Room Area, a processing space including Alcotest and (3) three holding cells, a secure access door between the Processing Area and the Patrol Room Area, and a detainee bathroom with correctional grade fixtures with no holding bar. Project also included segregation of sanitary piping serving upper and lower levels of the building and installation of a new sanitary sewer pumping station for the lower level, to address historical problems with flooding due to sewer backups in the street.



Fred F. Chen, PE

Director

MEP Engineering

Education

Union College: B.S.E.E.,
Electrical Engineering/2007
Summa Cum Laude

Credentials

Professional Engineer:
New Jersey, New York,
Connecticut, Maryland,
Illinois, North Carolina, and
District of Columbia

Affiliations

National Council of
Examiners for Engineering
and Surveying (NCEES)

The Engineering Honor
Society (Tau Beta Pi)

The Institute of Electrical and
Electronics Engineers (IEEE)

IEEE Electrical and
Computer Engineering
Honor Society (Eta Kappa
Nu)

Mr. Chen is a senior electrical engineer with 17 years of electrical engineering experience in the performance of complex design and project management on a large variety of projects for industrial, commercial, multi-family residential, and government projects, specialized in electrical systems for critical facilities such as water and wastewater facilities. Projects include facilities such as affordable housing, public utilities, hospitals, universities, commercial and industrial facilities, and government buildings and facilities. Typical design work includes low and medium voltage (up to 100 kV) power distribution systems, emergency power distribution system, Uninterruptible Power Supply (UPS) system, renewable energy (CHP & Solar), telecommunication system, motor control circuits, raceway systems, fire alarm systems, underground utility plans and profiles, interior and outdoor lighting systems, cathodic protection systems, switchgears, motor control center, panelboard and apparatus schedules and interfacing with utility companies.

Relevant Experience

Passaic Valley Sewerage Commission, Stormwater Collection System Improvements – Newark, NJ: Electrical Engineer responsible for the design of the new 5,400 gpm Witco Property Pump Station, which collected stormwater from the Witco property site and discharged to the Southeast Stormwater Pump Station. Two VFDS were designed for the control and energy savings of two 115HP 480V sewage pumps.

Bergen County Utilities Authority, Little Ferry Water Pollution Control Facility, Energy Resilience Bank Electrical Substations Upgrade Project – Little Ferry, NJ: The facility is a 109 million GPD critical public secondary wastewater treatment facility. The scope of the project included raising up and replacement of the 26 kV / 4.16 kV Main Substation Switchyard and six Unit Substations including 4.16 kV / 480V Transformers, Switchgears, Motor Control Centers, and electrical control and SCADA system. Served as the Lead Electrical Engineer responsible for the electrical Investigations of existing electrical system, including 4.16 kV underground distribution, 26 kV Main Substation, and 4.16 and 480V Unit Substations; design of new 26 kV Main Substation Switchyard, 4.16kV and 480V Unit Substation, and 480V Motor Control Centers; development of Maintenance of Plant Operations (MOPO) plans. Also served as project engineer for coordination with the client, a public utility company, and management of subconsultants.

Musconetcong Sewerage Authority, Microstrainer Replacement Project, Budd Lake, NJ: The Musconetcong Sewerage Authority is an advanced wastewater treatment facility designed to process 4.31 million gallons of domestic wastewater every day. The project included the replacement of microstrainers of Final Treatment Building and Microstrainer Building. Served as the Lead Electrical Engineer for the electrical Investigations of existing electrical system, including 480V Motor Control Centers, modification and design of 480V electrical facilities for existing Final Treatment Building and Microstrainer Building, and lighting system.

Passaic Valley Sewerage Commission, Filtrate and Dewatering Pump Station: Newark, NJ – Electrical Engineer responsible for shop drawings review during construction phase.



Craig P. Hermann PE, PP, CME

Senior Project Manager

Site and Civil Engineering

Education

Rutgers University, College
of Engineering: B.S., Civil
Engineering/1996

Credentials

Professional Engineer:
New Jersey

Professional Planner:
New Jersey

Certified Municipal Engineer:
New Jersey

Mr. Hermann has 27 years of design and regulatory experience in a wide variety of civil engineering projects related to pre-construction permitting and coordination, municipal infrastructure design, site development, urban redevelopment, roadway design, and recreational field design. Design tasks include site permitting, concept planning, utility design and layout, stormwater management design, horizontal and vertical roadway design, lot geometry and grading. 12 of the 20 years of his career were spent working as a consulting engineer for various municipalities in New Jersey, where extensive experience was gained in the design of municipal infrastructure improvements as well as the municipal approval procedure resulting in a clear understanding of how to move a project through the municipal review process and the review and approval process for utilities and other jurisdictional agencies to construction. In addition, Mr. Hermann, having designed multiple recreational fields, has extensive experience in the design and permitting of natural and synthetic turf fields.

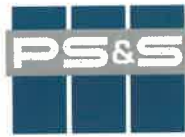
Relevant Experience

PVSC Alternate Wet Weather Treatment Protocol Project: Civil Engineer. The scope of this project includes a proposed secondary bypass to be installed from the primary influent conduit, downstream of the location where sludge recycles are returned, to carry flow to the Northwest corner of the Final Clarifier channel, where it would mix with secondary effluent and flow to disinfection and discharge. The below grade bypass piping consisted of approximately 150 lineal feet (LF) of 96" diameter steel piping and approximately 750 LF of 72" diameter steel piping. The project also consisted of approximately 500 LF of 42" diameter piping to be installed below grade for the proposed sludge recycle reroute. The project also required rerouting of existing stormwater piping along the bypass and recycle reroute alignments including forty-two storm structures and 1,698 LF of storm piping ranging from 12" – 48" diameter piping. The project is currently in the construction phase.

PVSC – Stormwater Collection System Improvements – Newark, NJ: Civil Engineer Project Manager through construction phases of a project whose goals included disconnecting all existing stormwater collection system connections from systems outside of the PVSC wastewater treatment facility site, conveying all on-site stormwater to the three (3) proposed on-site stormwater pump stations, and modifying the existing stormwater collection system to convey on-site runoff generated by the 100-year event along with a wave overtopping rate.

Assistance with Preparation of Various Resiliency Memos - Prepared Resiliency memos for several clients as required to obtain financing through NJ Ibank. The memos were prepared in accordance with NJDEP and NJ Ibank requirements. Some clients for which PS&S assisted in this effort include CCMUA, Town Of Newton, City Of Paterson, EWMUA, etc.

Municipal Engineering Reviews – Mine Hill, Montvale, Tenafly, New Providence, Summit, NJ*: Working as a municipal consultant, became familiar with the Municipal Land Use Law (MLUL) while preparing review reports for proposed development within various municipalities in New Jersey. Reports were prepared for Municipal Building Departments, Municipal Planning Boards, and Municipal Zoning Boards of Adjustment. Coordinated with the developers on the requirements to start construction including bonding requirements (in accordance with MLUL requirements) and confirmation that all permits/approvals were obtained from other agencies with jurisdiction. Also worked with developers on final inspections of offsite improvements in the municipal right of way and final sign offs for certificates of occupancy.



Mark Cifelli, PE

**Director, Project Management
Site and Civil Engineering**

Education

The College of New
Jersey, B.S., Mechanical
Engineering/2005

Credentials

Professional Engineer;
New Jersey

Affiliations

National Association
of Industrial and Office
Properties

Mr. Cifelli joined PS&S's Civil Engineering Department as a Project Manager in 2017. With over 18 years of experience in the civil engineering industry, where he has been involved in both private and public-sector projects. He has extensive experience in project management for clients' projects, business development, construction, and engineering design as well as in expert testimony at municipal planning and zoning boards. Experience includes due diligence, feasibility, conceptual design geometry, grading, drainage and utility, stormwater, hydrology, hydraulics, report preparation, bid specifications, and construction administration. Mr. Cifelli has comprehensive knowledge with regards to regulatory permitting including NJDEP, NJDOT, County and Municipal rules and regulations. He also has experience with various engineering design software such as Bentley's StormCAD and WaterCad, HEC-Ras, Hydrocad, Hydraflow, and AutoCAD Civil 3D..

Relevant Experience

Gordon H. Mansfield Veterans Village – Tinton Falls, Monmouth County, NJ: Project Manager for the development of a veterans supportive housing development, proposed by WinnDevelopment and Soldier On, Inc. The proposed development will consist of the construction of a four-story 70 unit apartment building, with associated site improvements. Responsible for conceptual design, Preliminary/Final Major Site Plan approval, and for all regulatory permitting, including NJDEP Wetland and Flood Hazard area permits.

The Morrison – Parsippany, NJ: Project Manager for a proposed 325-unit development at the 26-acre site formerly occupied by BASF. PS&S provided engineering, survey, landscape architecture and environmental services to SJP Properties, and construction administration services to Accurate Builders for the project. The project included surface and structured parking for the two 4-story buildings.

Holly House Site Rehabilitation – Asbury Park, NJ: Project Manager for the site rehabilitation of an existing affordable housing development. The owner, Related Affordable challenged us to create an ADA compliant entrance to the existing building which had a split-level configuration. A below grade entrance to the lower level was added with flood proofing measures to prevent flooding from the nearby flood zone, utilizing a raingarden to minimize impacts of the project. Design of landscaping improvements, ADA accessible route reconstruction, a new trash enclosure and parking lot improvements was also provided.

Gateway South Parking Lot Improvements – Newark, Essex County, NJ: Project Manager for the rehabilitation of an existing surface parking lot for Prudential. Responsible for site investigation, improvement design, bid services and construction administration relating the of the site improvements.

West Deptford Senior Apartments – West Deptford, Gloucester County, NJ: Project Manager for the proposed development of an 84-unit Senior Apartment building within a redevelopment zone. The majority of the units would be affordable housing. Responsible for leading the design team from conceptual design through planning board approvals. Design included site plans with on-site parking, walking trail, community garden and outdoor seating areas to serve the building.



Stratis (Steve) Maravelias, LSRP

Director

Environmental Services

Education

The College of New Jersey:
B.S., Biology, Minor in
Chemistry

Credentials

Licensed Site Remediation
Professional: New Jersey

NJDEP UST Subsurface
Evaluation Certified

OSHA 40-Hour HAZWOPER
Certified

OSHA 8-Hour HAZWOPER
Annual Refresher

EPA/AHERA Asbestos
Building Inspector

First Aid, Adult CPR & AED
Certified, American Red
Cross

Affiliations

New Jersey Licensed Site
Remediation Professionals
Association (LSRPA)

Mr. Maravelias is a Director and Licensed Site Remediation Professional within the Environmental Department at PS&S. In this role, he is responsible for making informed decisions that enable site investigation and remediation activities to advance at a steady pace. As a Senior Project Manager, he is responsible for the scheduling and on site supervision of subcontractors, direct interaction with regulatory agencies and client representatives, management of Preliminary Assessments, Site Investigations, and Remedial Investigations/Remedial Actions. In addition, Mr. Maravelias has had the responsibility of preparing proposals, organizing and preparing project schedules, collecting and analyzing environmental data, writing technical reports, as well as client and budget management. Mr. Maravelias has had significant project experience throughout

Relevant Experience

Multiple MGP and Non-MGP Sites, Throughout New Jersey: LSRP and Project Manager responsible for the preparation and submission of remedial action permit applications and remedial action protectiveness certifications (for both soil and groundwater) for over 35 MGP and Non-MGP sites throughout New Jersey for a large public utility client. Activities include: preparation of site specific health and safety plans, periodic monitoring, maintenance and inspection schedules, and correspondence with NJDEP. Additional responsibilities include preparation of new classification exception areas (CEAs) and revisions to existing CEAs.

Confidential Utility Client, Former Camden Gas Work – Camden, NJ: Licensed Site Remediation Professional and Project Manager responsible for a multi-million-dollar investigation and remediation of both impacted soils and groundwater. PS&S is also providing Construction Oversight Engineer services to track the work efforts of the Remediation Contractor in accordance with the Construction Bid Specifications and Remedial Action Work Plan.

The site is currently an operational metering and regulation facility and substation in the areas of the former MGP impacts. Implementation of the Remedial Action required well-coordinated efforts between the remediation contractor and the site operator. Also, PS&S is currently designing a slurry wall that will help contain and prevent migration of free product on the site. Additional Services included on-site oversight and documentation of abandonment of on-site monitoring wells, excavation of waste materials, trucking and disposal of waste materials, oversight and monitoring of the waste disposal sites, dewatering and treatment of the dewatering fluids, importation and placement of clean backfill, and importation and placement of the final cap, waste classification and re-use sampling and the preparation of a Remedial Action Report and issuance of a Response Action Outcome. Additionally, PS&S services included a Remedial Investigation of the entire site and implementation of a groundwater Classification Exception Area.

Monmouth County, On-Call Air Permitting Services – Monmouth County, NJ: LSRP providing the County with comprehensive air permitting and compliance services for facilities with active fuel systems, emergency generators, boilers, fire pumps and other applicable equipment. PS&S has reviewed existing County systems and existing permits to evaluate compliance with NJDEP regulations. In addition, PS&S tracks all of the County's active air permits and renewal dates. PS&S also provides air quality testing services and prepares reports to document compliance with permitting requirements.



Schedule of Hourly Rates



3 Mountainview Road
Warren, NJ 07059

Proposal/Contract No:

Date:

SCHEDULE OF CHARGES & HOURLY RATES

CHARGES FOR SERVICES

When PS&S is to be paid on the basis of time expended and expenses incurred on the Project, compensation shall be determined using the hourly rates. These rates are effective September 1, 2025, but may be reasonably modified on an annual basis (by written notice to Owner) thereafter by PS&S, depending on market conditions. PS&S reserves the right to add or modify title names within each established billing rate category on an annual basis (by written notice to Owner).

If the Client requests PS&S to provide other Services in addition to those described in the attached Proposal and this Agreement, PS&S requires a written additional service authorization amending this Agreement, before PS&S will proceed with that work.

Billable Hourly Rate Title

\$ 305	Executive VP, SVP, VP, Sr. Project Executive
\$ 280	Sr. Director, Director, Lead Surveyor
\$ 255	Sr. Lead (Architect, Engineer, Landscape Architect, Planner, Project Designer, GIS Analyst), Sr. Project (Manager, LSRP), Scientific Leader, Sr. (CAD/BIM Manager, Construction Field Specialist), Project Controls Manager
\$ 230	Project Manager, Lead (Architect, Engineer, Landscape Architect, Planner, Project Designer, Project Scientist), Lead Project GIS Analyst, Sr. (Project Surveyor, Operations Analyst, LSRP), Construction Field Specialist, CAD/BIM Manager, Survey Crew Coordinator
\$ 205	Sr. Project (Architect, Engineer, Landscape Architect, Planner) Lead (Designer, GIS Analyst, Scientist), Lead Project CAD/BIM Technician, Sr. (Archaeologist II, Architectural Historian II, Surveyor), Project LSRP
\$ 195	Sr. (Architect, Engineer, Landscape Architect, Planner, Archaeologist, Architectural Historian), Sr. Project (Designer, GIS Analyst, Scientist), Lead (Construction Inspector, Project Controls Analyst, CAD/BIM Technician), Operations Analyst, Project Surveyor, LSRP
\$ 185	Sr. (Construction Inspector, Crew Chief), Project Coordinator
\$ 182	Project (Architect, Engineer, Landscape Architect, Planner), Sr. (Designer, Scientist, GIS Analyst), Sr. Project CAD/BIM Technician, Archaeologist III, Interior Designer, Principal Investigator, Surveyor, Survey Technician
\$ 170	Architect, Engineer, Landscape Architect, Planner, GIS Analyst, Project (Archaeologist, Designer, Scientist), Sr. (CAD/BIM Technician, Project Controls Analyst)
\$ 160	Crew Chief, Archaeologist/Architectural Historian II, Survey CAD Technician, Project Construction Inspector
\$ 157	Technical (Designer, Scientist), Project CAD/BIM Technician, Archaeologist/Architectural Historian I
\$ 145	Designer, Scientist, CAD/BIM Technician, Field Technician, GIS Technician
\$ 130	Project Controls Analyst, Sr. Administrative Support
\$ 125	Instrument Operator, Construction Inspector
\$ 105	Administrative Support, Technical Support

When survey field crew time is billed on a crew basis, the following rates apply (portal to portal):

\$ 310	2-person crew
\$ 410	3-person crew

Billable Hourly Rate Public Hearings

\$ 375	Court Appearances, Public Hearings, Expert Testimony, Preparation for Testimony
--------	---



Certificates and Forms

MORRIS COUNTY MUA

Administrative Documents

A. Please submit the following documents with your response to the RFP

Owner's Checkmarks		Bidder's Initials
X	Statement of Ownership Disclosure	R.B.
X	Non-Collusion Affidavit	R.B.
X	Disclosure of Investment Activities In Iran	R.B.
X	Certification of Non-Involvement in Prohibited Activities in Russia or Belarus	R.B.
X	Affidavit of Non-Debarred Status	R.B.
X	Affirmative Action Compliance Notice	R.B.
X	Mandatory EEO Language	R.B.
X	Americans with Disability Act of 1990 Form	R.B.
X	Anti-Discrimination Requirements	R.B.
X	Pay to Play Advisory Notice	R.B.
X	Certificate of Employee Information Report/AA-302	R.B.
X	W-9	R.B.
X	New Jersey Business Registration Certificate	R.B.
X	Proposal (document not provided)	R.B.

MORRIS COUNTY MUA

Mandatory EEO Language

EXHIBIT A

MANDATORY EQUAL EMPLOYMENT OPPORTUNITY LANGUAGE

N.J.S.A. 10:5-31 et seq. (P.L.1975, c.127)

N.J.A.C. 17:27 et seq.

GOODS, GENERAL SERVICES, AND PROFESSIONAL SERVICES CONTRACTS

During the performance of this contract, the contractor agrees as follows:

The contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Except with respect to affectional or sexual orientation and gender identity or expression, the contractor will ensure that equal employment opportunity is afforded to such applicants in recruitment and employment, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex.

Such equal employment opportunity shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.

The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting forth provisions of this nondiscrimination clause.

The contractor or subcontractor, where applicable will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex.

The contractor or subcontractor will send to each labor union, with which it has a collective bargaining agreement, a notice, to be provided by the agency contracting officer, advising the labor union of the contractor's commitments under this chapter and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The contractor or subcontractor, where applicable, agrees to comply with any regulations promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 et seq., as amended and supplemented from time to time and the Americans with Disabilities Act.

The contractor or subcontractor agrees to make good faith efforts to meet targeted county employment goals established in accordance with N.J.A.C. 17:27-5.2.

The contractor or subcontractor agrees to inform in writing its appropriate recruitment agencies including, but not limited to, employment agencies, placement bureaus, colleges, universities, and labor unions, that it does not discriminate on the basis of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex, and that it

MORRIS COUNTY MUA

Mandatory EEO Language

will discontinue the use of any recruitment agency which engages in direct or indirect discriminatory practices.

The contractor or subcontractor agrees to revise any of its testing procedures, if necessary, to assure that all personnel testing conforms with the principles of job related testing, as established by the statutes and court decisions of the State of New Jersey and as established by applicable Federal law and applicable Federal court decisions.

In conforming with the targeted employment goals, the contractor or subcontractor agrees to review all procedures relating to transfer, upgrading, downgrading and layoff to ensure that all such actions are taken without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex, consistent with the statutes and court decisions of the State of New Jersey, and applicable Federal law and applicable Federal court decisions. The contractor shall submit to the public agency, after notification of award but prior to execution of a goods and services contract, one of the following three documents:

Letter of Federal Affirmative Action Plan Approval;

Certificate of Employee Information Report; or

Employee Information Report Form AA-302 (electronically provided by the Division and distributed to the public agency through the Division's website at: http://www.state.nj.us/treasury/contract_compliance.

www.state.nj.us/treasury/contract_compliance.

The contractor and its subcontractors shall furnish such reports or other documents to the Division of Purchase & Property, CCAU, EEO Monitoring Program as may be requested by the office from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Division of Purchase & Property, CCAU, EEO Monitoring Program for conducting a compliance investigation pursuant to N.J.A.C. 17:27-1.1 et seq

Business Name: Paulus, Sokolowski and Sartor, LLC

Representative's Name (print): Renard E. Barnes, Esq.

Representative's Signature:



Date: January 5, 2026

MORRIS COUNTY MUA

Affirmative Action Compliance Notice

EXHIBIT A

GOODS, GENERAL SERVICES, AND PROFESSIONAL SERVICES CONTRACTS

This form is a summary of the successful vendor's requirement to comply with the requirements of N.J.S.A. 10:5-31 and N.J.A.C. 17:27.

The respondent shall submit to the public agency, one of the following three documents as forms of evidence:

1. Letter of Federal Affirmative Action Plan Approval
2. Certificate of Employee Information Report
3. A photocopy of an Employee Information Report (AA302) provided by the Division and distributed to the public agency to be completed by the vendor in accordance with N.J.A.C. 17:27-4.

The vendor must submit the copies of the AA302 Report to the Division of Contract Compliance and Equal Employment Opportunity in Public Contracts (Division). The Public Agency copy is submitted to the public agency, and the vendor copy is retained by the vendor.

The undersigned vendor further understands that his/her proposal shall be rejected as non-responsive if said vendor fails to comply with the requirements of N.J.S.A. 10:5-31 et seq. and N.J.A.C. 17:27.

Business Name: Paulus, Sokolowski and Sartor, LLC

Representative's Name (print): Renard E. Barnes, Esq.

Representative's Signature:



Date: January 5, 2026

Certification2215

**CERTIFICATE OF EMPLOYEE INFORMATION REPORT
RENEWAL**

This is to certify that the contractor listed below has submitted an Employee Information Report pursuant to N.J.A.C. 17:27-1.1 et. seq. and the State Treasurer has approved said report. This approval will remain in effect for the period of **15-DEC-2024** to **15-DEC-2027**

PAULUS, SOKOLOWSKI & SARTOR, LLC
3 MOUNTAINVIEW ROAD
WARREN NJ 07059



Elizabeth Maher Muoio

ELIZABETH MAHER MUOIO
State Treasurer

MORRIS COUNTY MUA

Americans with Disabilities Act of 1990

The CONTRACTOR and the OWNER do hereby agree that the provisions of Title 11 of the Americans With Disabilities Act of 1990 (the "ACT") (42 U.S.C. S12101 et seq.), which prohibits discrimination on the basis of disability by public entities in all services, programs, and activities provided or made available by public entities, and the rules and regulations promulgated pursuant thereto, are made a part of this contract. In providing any act benefit, or service on behalf of the OWNER pursuant to this contract, the CONTRACTOR agrees that the performance shall be in strict compliance with the Act. In the event that the Contractor, its agents, servants, employees, or subcontractors violate or are alleged to have violated the Act during the performance of this contract, the CONTRACTOR shall defend the OWNER in any action or administrative proceeding commenced pursuant to this Act. The Contractor shall indemnify, protect, and save harmless the OWNER, its agents, servants, and employees from and against any and all suits, claims, losses, demands, or damages, of whatever kind or nature arising out of or claimed to arise out of the alleged violation. The CONTRACTOR shall, at its own expense, appear, defend, and pay any and all charges for legal services and any and all costs and other expenses arising from such action or administrative proceeding or incurred in connection therewith. In any and all complaints brought pursuant to the OWNER grievance procedure, the CONTRACTOR agrees to abide by any decision of the OWNER which is rendered pursuant to said grievance procedure. If any action or administrative proceeding results in an award of damages against the OWNER or if the OWNER must any expense to cure a violation of the ADA which has been brought pursuant to its grievance procedure, the CONTRACTOR shall satisfy and discharge the same at its OWN expense.

The OWNER shall, as soon as practicable after a claim has been made against it, give written notice thereof to the CONTRACTOR along with full and complete particulars of the claim. If any action or administrative proceedings is brought against the OWNER or any of its agents, servants, and employees, the OWNER shall expeditiously forward or have forwarded to the CONTRACTOR every demand, complaint, notice, summons, pleading, or other process received by the OWNER or its representatives.

It is expressly agreed and understood that any approval by the OWNER of the services provided by the CONTRACTOR pursuant to this contract will not relieve the CONTRACTOR of the obligation to comply with the Act and to defend, indemnify, protect, and save harmless the OWNER pursuant to this paragraph.

It is further agreed and understood that the OWNER assumes no obligation to indemnify or save harmless the CONTRACTOR, its agents, servants, employees and subcontractors for any claim which may arise out of their performance of this Agreement. Furthermore, the CONTRACTOR expressly understands and agrees that the provisions of this indemnification clause shall in no way limit the CONTRACTOR'S obligations assumed in this Agreement, nor shall they be construed to relieve the CONTRACTOR from any liability, nor preclude the OWNER from taking any other actions available to it under any other provisions of the Agreement or otherwise at law.

MORRIS COUNTY MUA

Americans with Disabilities Act of 1990

Furthermore, the contractor expressly understands and agrees that the provisions of this indemnification clause shall in no way limit the contractor's obligations assumed in this Agreement, nor shall they be construed to relieve the contractor from any liability, nor preclude the owner from taking any other actions available to it under any other provisions of the Agreement or otherwise at law.

Business Name (Print): Paulus, Sokolowski and Sartor, LLC

Representative's Name (Print): Renard E. Barnes, Esq.

Representative's Title: Chief Risk Officer/Secretary

Representative's Signature:



Phone: 732-560-97800

Date: January 5, 2026

MORRIS COUNTY MUA

New Jersey Anti-Discrimination

Pursuant to N.J.S.A. 10:2-1:

- a. In the hiring of persons for the performance of work under this contract or any subcontract hereunder, or for the procurement, manufacture, assembling or furnishing of any such materials, equipment, supplies or services to be acquired under this contract, no contractor, nor any person acting on behalf of such contractor or subcontractor, shall, by reason of race, creed, color, national origin, ancestry, marital status, gender identity or expression, affectional or sexual orientation or sex, discriminate against any person who is qualified and available to perform the work to which the employment relates;
- b. No contractor, subcontractor, nor any person on his behalf shall, in any manner, discriminate against or intimidate any employee engaged in the performance of work under this contract or any subcontract hereunder, or engaged in the procurement, manufacture, assembling or furnishing of any such materials, equipment, supplies or services to be acquired under such contract, on account of race, creed, color, national origin, ancestry, marital status, gender identity or expression, affectional or sexual orientation or sex;
- c. There may be deducted from the amount payable to the contractor by the contracting public agency, under this contract, a penalty of \$ 50.00 for each person for each calendar day during which such person is discriminated against or intimidated in violation of the provisions of the contract; and
- d. This contract may be canceled or terminated by the contracting public agency, and all money due or to become due hereunder may be forfeited, for any violation of this section of the contract occurring after notice to the contractor from the contracting public agency of any prior violation of this section of the contract.

Business Name (Print): Paulus, Sokolowski and Sartor, LLC

Representative's Name (Print): Renard E. Barnes, Esq.

Representative's Title: Chief Risk Officer/Secretary

Representative's Signature:



Phone: 732-560-9700

Date: January 5, 2026

STATEMENT OF OWNERSHIP DISCLOSURE
N.J.S.A. 52:25-24.2 (P.L. 1977, c.33, as amended by P.L. 2016, c.43)

This statement shall be completed, certified to, and included with all bid and proposal submissions. Failure to submit the required information is cause for automatic rejection of the bid or proposal.

Name of Organization: Paulus, Sokolowski and Sartor, LLC

Organization Address: 3 Mountainview Road, Warren, NJ 07059

Part I Check the box that represents the type of business organization:

- ☐ Sole Proprietorship (skip Parts II and III, execute certification in Part IV)
- ☐ Non-Profit Corporation (skip Parts II and III, execute certification in Part IV)
- ☐ For-Profit Corporation (any type) ☒ Limited Liability Company (LLC)
- ☐ Partnership ☐ Limited Partnership ☐ Limited Liability Partnership (LLP)
- ☐ Other (be specific): _____

Part II

- ☒ The list below contains the names and addresses of all stockholders in the corporation who own 10 percent or more of its stock, of any class, or of all individual partners in the partnership who own a 10 percent or greater interest therein, or of all members in the limited liability company who own a 10 percent or greater interest therein, as the case may be. **(COMPLETE THE LIST BELOW IN THIS SECTION)**

OR

- ☒ No one stockholder in the corporation owns 10 percent or more of its stock, of any class, or no individual partner in the partnership owns a 10 percent or greater interest therein, or no member in the limited liability company owns a 10 percent or greater interest therein, as the case may be. **(SKIP TO PART IV)**

(Please attach additional sheets if more space is needed):

Name of Individual or Business Entity	Address
AJS Acquisition, LLC owns 99% of the issued and outstanding membership interests of Paulus, Sokolowski and Sartor, LLC	3 Mountainview Road, Warren, NJ 07059
John A. Sartor owns 1% of the issued and outstanding membership interests of Paulus, Sokolowski and Sartor, LLC	321 Elm Street, Unit B, Westfield, NJ 07090

Part III DISCLOSURE OF 10% OR GREATER OWNERSHIP IN THE STOCKHOLDERS, PARTNERS OR LLC MEMBERS LISTED IN PART II

If a bidder has a direct or indirect parent entity which is publicly traded, and any person holds a 10 percent or greater beneficial interest in the publicly traded parent entity as of the last annual federal Security and Exchange Commission (SEC) or foreign equivalent filing, ownership disclosure can be met by providing links to the website(s) containing the last annual filing(s) with the federal Securities and Exchange Commission (or foreign equivalent) that contain the name and address of each person holding a 10% or greater beneficial interest in the publicly traded parent entity, along with the relevant page numbers of the filing(s) that contain the information on each such person. **Attach additional sheets if more space is needed.**

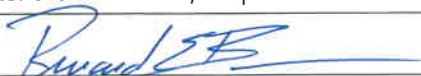
Website (URL) containing the last annual SEC (or foreign equivalent) filing	Page #'s

Please list the names and addresses of each stockholder, partner or member owning a 10 percent or greater interest in any corresponding corporation, partnership and/or limited liability company (LLC) listed in Part II **other than for any publicly traded parent entities referenced above**. The disclosure shall be continued until names and addresses of every noncorporate stockholder, and individual partner, and member exceeding the 10 percent ownership criteria established pursuant to N.J.S.A. 52:25-24.2 has been listed. **Attach additional sheets if more space is needed.**

Stockholder/Partner/Member and Corresponding Entity Listed in Part II	Address
John A. Sartor owns 98% of the issued and outstanding membership interests of AJS Acquisition, LLC	321 Elm Street, Unit B, Westfield, NJ 07090

Part IV Certification

I, being duly sworn upon my oath, hereby represent that the foregoing information and any attachments thereto to the best of my knowledge are true and complete. I acknowledge: that I am authorized to execute this certification on behalf of the bidder/proposer; that the **Morris County Municipal Utilities Authority** is relying on the information contained herein and that I am under a continuing obligation from the date of this certification through the completion of any contracts with **Morris County Municipal Utilities Authority** to notify the **Morris County Municipal Utilities Authority** in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I am subject to criminal prosecution under the law and that it will constitute a material breach of my agreement(s) with the, permitting the **Morris County Municipal Utilities Authority** to declare any contract(s) resulting from this certification void and unenforceable.

Full Name (Print):	Renard E. Barnes, Esq.	Title:	Chief Risk Officer/Secretary
Signature:		Date:	January 5, 2026

MORRIS COUNTY MUA

New Jersey Business Registration Certification

Pursuant to N.J.S.A. 52:32-44, the Morris County Municipal Utilities Authority is prohibited from entering into a contract with an entity unless the bidder/proposer/contractor, and each subcontractor that is required by law to be named in a bid/proposal/contract has a valid Business Registration Certificate on file with the Division of Revenue and Enterprise Services within the Department of the Treasury.

Prior to contract award or authorization, the contractor shall provide the Morris County Municipal Utilities Authority with its proof of business registration and that of any named subcontractor(s).

Subcontractors named in a bid or other proposal shall provide proof of business registration to the bidder, who in turn, shall provide it to the Morris County Municipal Utilities Authority prior to the time a contract, purchase order, or other contracting document is awarded or authorized.

During the course of contract performance:

- (1) the contractor shall not enter into a contract with a subcontractor unless the subcontractor first provides the contractor with a valid proof of business registration.
- (2) the contractor shall maintain and submit to the Morris County Municipal Utilities Authority a list of subcontractors and their addresses that may be updated from time to time.
- (3) the contractor and any subcontractor providing goods or performing services under the contract, and each of their affiliates, shall collect and remit to the Director of the Division of Taxation in the Department of the Treasury, the use tax due pursuant to the Sales and Use Tax Act, (N.J.S.A. 54:32B-1 et seq.) on all sales of tangible personal property delivered into the State. Any questions in this regard can be directed to the Division of Taxation at (609)292-6400. Form NJ-REG can be filed online at <http://www.state.nj.us/treasury/revenue/busregcert.shtml>.

Before final payment is made under the contract, the contractor shall submit to the Morris County Municipal Utilities Authority a complete and accurate list of all subcontractors used and their addresses.

Pursuant to N.J.S.A. 54:49-4.1, a business organization that fails to provide a copy of a business registration as required, or that provides false business registration information, shall be liable for a penalty of \$25 for each day of violation, not to exceed \$50,000, for each proof of business registration not properly provided under a contract with a contracting agency.

12/02/21

Taxpayer Identification# 900-590-653/000

Dear Business Representative:

Congratulations! You are now registered with the New Jersey Division of Revenue.

Use the Taxpayer Identification Number listed above on all correspondence with the Divisions of Revenue and Taxation, as well as with the Department of Labor (if the business is subject to unemployment withholdings). Your tax returns and payments will be filed under this number, and you will be able to access information about your account by referencing it.

Additionally, please note that State law requires all contractors and subcontractors with Public agencies to provide proof of their registration with the Division of Revenue. The law also amended Section 92 of the Casino Control Act, which deals with the casino service industry.

We have attached a Proof of Registration Certificate for your use. To comply with the law, if you are currently under contract or entering into a contract with a State agency, you must provide a copy of the certificate to the contracting agency.

If you have any questions or require more information, feel free to call our Registration Hotline at (609)292-9292.

I wish you continued success in your business endeavors.

Sincerely,



James J. Fruscione
Director
New Jersey Division of Revenue

STATE OF NEW JERSEY
BUSINESS REGISTRATION CERTIFICATE

DEPARTMENT OF TREASURY
DIVISION OF REVENUE
PO BOX 252
TRENTON, N J 08646-0252

TAXPAYER NAME:

PAULUS, SOKOLOWSKI AND SARTOR, LLC

ADDRESS:

**3 MOUNTAINVIEW RD
WARREN NJ 07059**

EFFECTIVE DATE:

08/28/01

TRADE NAME:

SEQUENCE NUMBER:

0100526

ISSUANCE DATE:

12/02/21



Director
New Jersey Division of Revenue

FORM-BRC

(04-08), D205846V

This Certificate is NOT assignable or transferable. It must be conspicuously displayed at above address.

MORRIS COUNTY MUA

Pay to Play Advisory

PAY TO PLAY ADVISORY

Disclosure Requirement

(N.J.S.A. 19:44A – 20.27)

Any business entity that has received \$50,000 or more in contracts from government entities in a calendar year will be required to file an annual disclosure report with ELEC.

The report will include certain contributions and contract information for the current calendar year.

At a minimum, a list of all business entities that file an annual disclosure report will be listed on ELEC's website at www.elec.state.nj.us.

If you have any questions please contact ELEC at:
1-888-313-ELEC (toll free in NJ) or
609-292-8700

An analyst from ELEC's Special Programs Section will assist you.

Initials R.B.

MORRIS COUNTY MUA

Certification of Non-Involvement in Prohibited Activities in Russia or Belarus

Pursuant to N.J.S.A. 52:32-60.1, et seq. and N.J.S.A.40A:11-2.2 (L. 2022, c. 3) any person or entity (hereinafter "Vendor") that seeks to enter into or renew a contract with a local contracting unit subject to the Local Public Contracts Law for the provision of goods or services, or the purchase of bonds or other obligations, must complete the certification below indicating whether or not the Vendor is identified on the Office of Foreign Assets Control (OFAC) Specially Designated Nationals and Blocked Persons list, available here: <https://sanctionssearch.ofac.treas.gov/>. If the Department of the Treasury finds that a Vendor has made a certification in violation of the law, it shall take any action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the party.

I, the undersigned, certify that I have read the definition of "Vendor" below, and have reviewed the Office of Foreign Assets Control (OFAC) Specially Designated Nationals and Blocked Persons list, and having done so certify

(Check the Appropriate Box)

- ☒ A. That the Vendor is not identified on the [OFAC Specially Designated Nationals and Blocked Persons list on account of activity related to Russia and/or Belarus](#).
- OR**
- ☐ B. That I am unable to certify as to "A" above, because the Vendor is identified on the [OFAC Specially Designated Nationals and Blocked Persons list on account of activity related to Russia and/or Belarus](#).
- OR**
- ☐ C. That I am unable to certify as to "A" above, because the Vendor is identified on the [OFAC Specially Designated Nationals and Blocked Persons list](#). However, the Vendor is engaged in activity related to Russia and/or Belarus consistent with federal law, regulation, license or exemption. A detailed description of how the Vendor's activity related to Russia and/or Belarus is consistent with federal law is set forth below.

(Attach Additional Sheets If Necessary.)



Signature of Vendor's Authorized Representative
Renard E. Barnes, Esq.

Print Name and Title of Vendor's Authorized Representative
Paulus, Sokolowski and Sartor, LLC

Vendor's Name
3 Mountainview Road

Vendor's Address (Street Address)
Warren, NJ 07059

Vendor's Address (City/State/Zip Code)

January 5, 2026

Date
90-0590653

Vendor's FEIN
732-560-9700

Vendor's Phone Number
732-356-3726

Vendor's Fax Number
rbarnes@psands.com

Vendor's Email Address

ⁱ Vendor means: (1) A natural person, corporation, company, limited partnership, limited liability partnership, limited liability company, business association, sole proprietorship, joint venture, partnership, society, trust, or any other nongovernmental entity, organization, or group; (2) Any governmental entity or instrumentality of a government, including a multilateral development institution, as defined in Section 1701(c)(3) of the International Financial Institutions Act, 22 U.S.C. 262r(c)(3); or (3) Any parent, successor, subunit, direct or indirect subsidiary, or any entity under common ownership or control with, any entity described in paragraph (1) or (2).

MORRIS COUNTY MUA

Disclosure of Investment Activities in Iran

Pursuant to Public Law 2012, c. 25, any person or entity that submits a bid or proposal or otherwise proposes to enter into or renew a contract must complete the certification below to attest, under penalty of perjury, that the person or entity, or one of the person or entity's parents, subsidiaries, or affiliates, is not identified on a list created and maintained by the Department of the Treasury as a person or entity engaging in investment activities in Iran. If the Director finds a person or entity to be in violation of the principles which are the subject of this law, s/he shall take action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the person or entity.

I certify, pursuant to Public Law 2012, c. 25, that the person or entity listed for which I am authorized to bid/renew:

Bidder/Officer: Paulus, Sokolowski and Sartor, LLC

- ☒ is not providing goods or services of \$20,000,000 or more in the energy sector of Iran, including a person or entity that provides oil or liquefied natural gas tankers, or products used to construct or maintain pipelines used to transport oil or liquefied natural gas, for the energy sector of Iran; is not a financial institution that extends \$20,000,000 or more in credit to another person or entity, for 45 days or more, if that person or entity will use the credit to provide goods or services in the energy sector in Iran.

In the event that a person or entity is unable to make the above certification because it or one of its parents, subsidiaries, or affiliates has engaged in the above-referenced activities, a detailed, accurate and precise description of the activities must be provided in part 2 below to the Division of Purchase under penalty of perjury. Failure to provide such will result in the proposal being rendered as non-responsive and appropriate penalties, fines and/or sanctions will be assessed as provided by law.

PART 2: PLEASE PROVIDE FURTHER INFORMATION RELATED TO INVESTMENT ACTIVITIES IN IRAN

You must provide, accurate and precise description of the activities of the bidding person/entity, or one of its parents, subsidiaries or affiliates, engaging in the investment activities in Iran outlined above by completing the boxes below.

Name: _____ Relationship to Bidder/Officer: _____

Description of Activities: _____

Duration of Engagement: _____ Anticipated Cessation Date: _____

Bidder/Officer Contact Name: _____ Contact Phone Number: _____

Certification: I, being duly sworn upon my oath, hereby represent and state that the foregoing information and any attachments thereto to the best of my knowledge are true and complete. I attest that I am authorized to execute this certification on behalf of the above-referenced person or entity. I acknowledge that Town/ Township/ Borough/Government Agency is relying on the information contained herein and thereby acknowledge that I am under a continuing obligation from the date of this certification through the completion of any contracts with the MCMUA to notify the MCMUA in writing of any changes to the answers of information contained herein. I acknowledge that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I recognize that I am subject to criminal prosecution under the law and that it will also constitute a material breach of my agreement(s) with Morris County Municipal Utilities Authority, New Jersey and that the MCMUA at its option may declare any contract(s) resulting from this certification void and unenforceable.

Full Name (Print): Renard E. Barnes, Esq. Signature: 

Title: Chief Risk Officer/Secretary Date: January 5, 2026

MORRIS COUNTY MUA

Non-Collusion Affidavit

STATE OF NEW JERSEY

MORRIS COUNTY MUNICIPAL UTILITIES AUTHORITY ss:

I certify that I am Renard E. Barnes, Esq., Chief Risk Officer/Secretary

of the firm of Paulus, Sokolowski and Sartor, LLC

the Respondent making this Proposal for the bid or proposal for the above named project, that I ~~executed~~ participated in preparing the said proposal with full authority to do so; that said bidder has not, directly or indirectly entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free, competitive bidding in connection with the above named project; and that all statements contained in said proposal and this affidavit are true, correct, and made with full knowledge that the Morris County Municipal Utilities Authority relies upon the truth of the statements contained in said Proposals and in the statements contained in this affidavit in awarding the contract for the said project.

I further warrant that no person or selling agency has been employed or retained to solicit or secure such contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, except bona fide employees or bona fide established commercial or selling agencies.

Signature of Representative: Renard E. Barnes

Subscribed and sworn to before me this 5th day of January, 20 25

Print Name of Affiant: Renard E. Barnes, Esq.

Notary Public of New Jersey

My commission expires July 27, 2030

Joanna S. Lieuallen

JOANNA S. LIEUALLEN
NOTARY PUBLIC
STATE OF NEW JERSEY
MY COMMISSION EXPIRES JULY 27, 2030
COMMISSION: #50132759

MORRIS COUNTY MUA

Affidavit of Non-Debarred Status

STATE OF NEW JERSEY)
) SS:
COUNTY OF SOMERSET)

I, Renard E. Barnes, Esq. of the City/Town of
Warren, in the County of Somerset

and the State of New Jersey, of full age, being duly sworn according to law on my
oath depose and say that:

I am Renard E. Barnes, Esq., a Chief Risk Officer/Secretary
(Name) (Title, Position, etc.)

of Paulus, Sokolowski and Sartor, LLC, the Bidder
(Name of Firm, Company or Corporation)

making the Bid for the Morris County Municipal Utilities Authority (MCMUA) and that I ~~executed~~ the said Bid with full authority so to do; that said Bidder at the time of making this Bid is not included on the State of New Jersey, State Treasurer's List of Debarred, Suspended and Disqualified Bidders and Department of Labor's Workplace Accountability in Labor List; and all statements contained in said Bid and in this affidavit are true and correct and made with the full knowledge that the Morris County Municipal Utilities Authority relies upon the truth of the statements contained in said Bid and in the Statements contained in this affidavit in awarding Contract for said project.

The undersigned further warrants that should the name of the firm, company or corporation making this Bid appear on the State Treasurer's List of Debarred, Suspended and Disqualified Bidders and Department of Labor's Workplace Accountability in Labor List at any time prior to, and during the life of the Contract, including the Guarantee Period, that the Morris County Municipal Utilities Authority (MCMUA) shall be immediately so notified by the signatory to this Eligibility Affidavit.

The undersigned understands that the firm, company or corporation making the Bid as a CONTRACTOR is subject to debarment, suspension and/or disqualification in contracting with the State of New Jersey and the Department of Environmental Protection if the CONTRACTOR, pursuant to NJAC 7:1-5.2, commits any of the acts listed therein, and as determined according to applicable law and regulation.


(Signature of Bidder)

(Seal if Corporation)

Renard E. Barnes, Esq., Chief Risk Officer/Secretary
(Printed or Typed Name & Title of Bidder)
3 Mountainview Road, Warren, NJ 07059
(Address of Bidder)

participated in preparation
R.E.

MORRIS COUNTY MUA

W-9

W-9
Form
(Rev. March 2024)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

Go to www.irs.gov/FormW9 for instructions and the latest information.

Give form to the
requester. Do not
send to the IRS.

Before you begin. For guidance related to the purpose of Form W-9, see *Purpose of Form*, below.

1 Name of entity/individual. An entry is required. (For a sole proprietor or disregarded entity, enter the owner's name on line 1, and enter the business/disregarded entity's name on line 2.) Paulus, Sokolowski & Sartor LLC	
2 Business name/disregarded entity name, if different from above.	
3a Check the appropriate box for federal tax classification of the entity/individual whose name is entered on line 1. Check only one of the following seven boxes. ☐ Individual/sole proprietor ☐ C corporation ☐ S corporation ☐ Partnership ☐ Trust/estate ☒ LLC. Enter the tax classification (C = C corporation, S = S corporation, P = Partnership) P Note: Check the "LLC" box above and, in the entry space, enter the appropriate code (C, S, or P) for the tax classification of the LLC, unless it is a disregarded entity. A disregarded entity should instead check the appropriate box for the tax classification of its owner. ☐ Other (see instructions)	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from Foreign Account Tax Compliance Act (FATCA) reporting code (if any) _____ (Applies to accounts maintained outside the United States.)
3b If on line 3a you checked "Partnership" or "Trust/estate," or checked "LLC" and entered "P" as its tax classification, and you are providing this form to a partnership, trust, or estate in which you have an ownership interest, check this box if you have any foreign partners, owners, or beneficiaries. See instructions ☐	
5 Address (number, street, and apt. or suite no.). See instructions. 3 Mountainview Rd	Requester's name and address (optional)
6 City, state, and ZIP code Warren, NJ 07059	
7 List account number(s) here (optional)	

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. See also *What Name and Number To Give the Requester* for guidelines on whose number to enter.

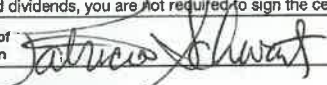
Social security number								
			-				-	
or								
Employer identification number								
9	0	-	0	5	9	0	6	5

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and, generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here	Signature of U.S. person 	Date 1/2/25
------------------	--	--------------------

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

What's New

Line 3a has been modified to clarify how a disregarded entity completes this line. An LLC that is a disregarded entity should check the appropriate box for the tax classification of its owner. Otherwise, it should check the "LLC" box and enter its appropriate tax classification.

New line 3b has been added to this form. A flow-through entity is required to complete this line to indicate that it has direct or indirect foreign partners, owners, or beneficiaries when it provides the Form W-9 to another flow-through entity in which it has an ownership interest. This change is intended to provide a flow-through entity with information regarding the status of its indirect foreign partners, owners, or beneficiaries, so that it can satisfy any applicable reporting requirements. For example, a partnership that has any indirect foreign partners may be required to complete Schedules K-2 and K-3. See the Partnership Instructions for Schedules K-2 and K-3 (Form 1065).

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS is giving you this form because they

MORRIS COUNTY MUA

W-9

(ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.