



Prepared for

The County College of Morris Structural and Civil Engineers RFP2425-56DD

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Engineering
& Design

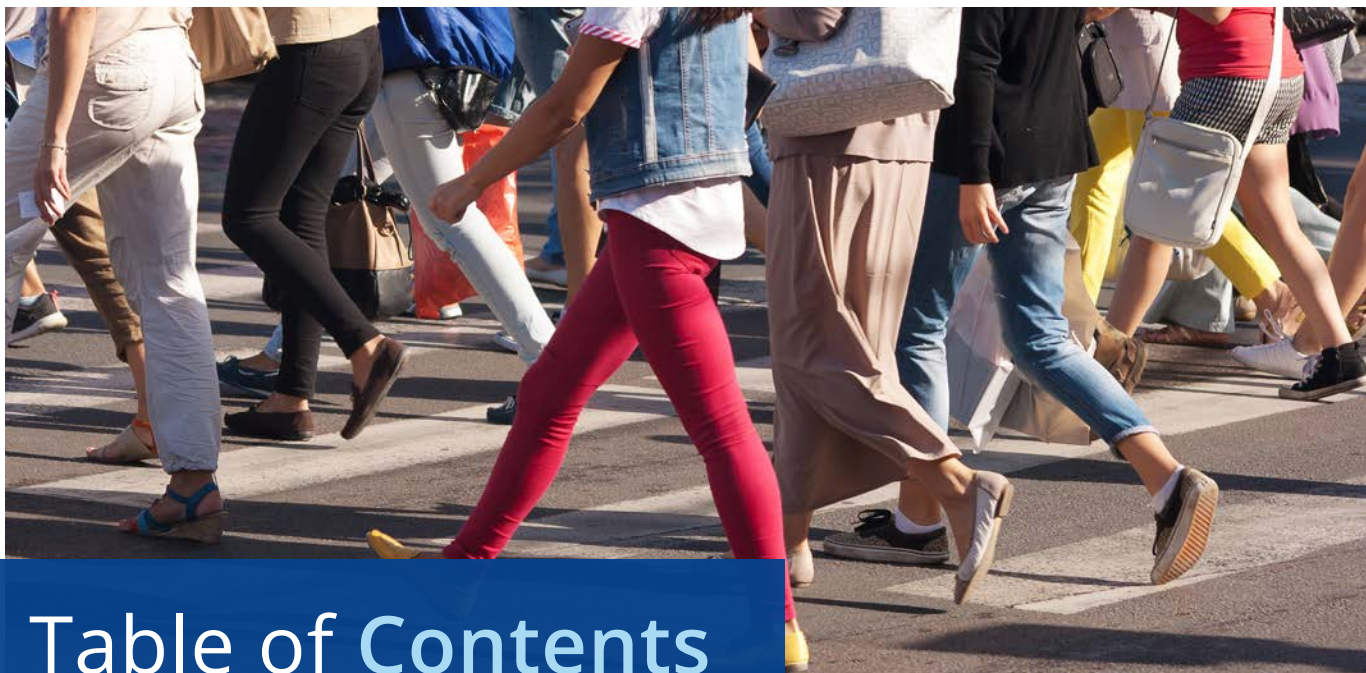


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Section 1

Executive Summary

Why choose us?

- * We have vast New Jersey college project experience.
- * We are knowledgeable of educational trends.
- * We have extensive knowledge and experience with energy reduction initiatives/sustainable design/LEED certifications.
- * We possess the ability to work on several tasks simultaneously and provide backup staff to ensure continuity of services and meet unexpected project deadlines.
- * We provide exceptional control over cost and schedules.
- * We ensure quality control through our Total Quality Program.
- * We have experience collaborating with multiple A/E firms to produce multiple, successful projects concurrently.
- * We are registered and licensed in the State of New Jersey to provide engineering and construction administrative services, and we have the accompanying staff of licensed and certified New Jersey Engineers and other disciplines.

Colliers Engineering & Design is ideally qualified to provide a wide range of professional engineering services meeting the various needs of The College of Morris County. **All engineering and related services are offered in-house by CED, which aids in projects being completed in the most efficient, safe, and cost-effective manner possible.** Our in-house abilities allow us to fully control the design schedule from all disciplines and seamless coordination between the professionals. We pride ourselves on customer service and client communication, ensuring that the College is informed on the status of all projects on a regular basis.

Because of our extensive experience with other higher education institutions throughout the state, CED is uniquely positioned to understand and meet the needs of the college. **Our firm possesses a strong track record of successfully collaborating**

with numerous other colleges and universities, including the College of New Jersey, Rowan University, Rutgers University, Rider University, Montclair State University, Middlesex County College, Fairleigh Dickinson University, New Jersey Institute of Technology, SUNY University at Albany, Essex County College, Warren County Community, as well as Brookdale Community College.

CED's size and expertise enables us to assign the necessary team to the array of projects that the college may pursue. Projects could range from the assignment of one professional with a particular expertise for consulting services to the organization of a full multi-discipline team of individuals to program, design, permit, and construct a project. Our experienced staff of over 1,000 engineers, planners, environmental scientists, and technical staff can provide engineering services including – but not limited to – studies, design, and inspection for:

- Site, land use, and environmental planning
- Facility, infrastructure and project design, construction, and operation
- Landscape architecture
- Occupational Hazard Assessment and Abatement Design
- Environmental Investigations and Site Remediation Services
- Subsurface inspection and analysis
- Land surveys
- Building systems evaluations
- Storm and sanitary sewers and watercourses
- Development of as-built plans, treatability and process evaluation, and feasibility and comparative cost review
- Review and evaluate permit requirements
- Prepare and submit applications, correspondence, etc. to any applicable regulatory agency, as required
- Building condition assessments
- Structural evaluations, analysis, and design
- Construction inspection and administration

Our experience ranges from the construction of new facilities to various types of facility upgrade projects, with a goal of designing and maintaining

educational building environments for the comfort and benefit of students and school staff. In addition to our experience, it is CED's personal service that sets us apart from the competition. Getting to know the school and its vision helps Colliers Engineering & Design lay down a strong baseline for upcoming projects and future development. Our recent work with schools includes the following:

- **Design and development of a Campus Town for the College of New Jersey, Ewing Township, Mercer County, NJ**
- **Design of a 12-story Student Residence for Rutgers University, Camden City, Camden County, NJ**
- **Planning and site design services for improvements to the Baseball Field Complex at Fairleigh**
- **Dickinson University, Township of Teaneck, Bergen County, NJ**
- **Site Design and civil engineering for a new Academic Building and Theater Addition at Rider**
- **University, Lawrenceville, Mercer County, NJ**
- **Campus Center Expansion, SUNY Albany**
- **NJIT - The Green at University Park**

Carl P. O'Brien, PE, PP, CME, CPWM will serve as client manager for the college. All members of our team are outlined on the Organization Chart located in Section 3 of our proposal. Team resumes, which include education and areas of expertise, can also be found in Section 3.

Colliers Engineering & Design is truly an experienced, full-service "one stop shop" that can address a project of any scope and magnitude from beginning to end. Our firm can provide numerous specialties through one Client Manager, providing the college with *one-stop* shopping. Only one person has to be contacted for assistance of any kind whether the need is for surveying, laser scanning, civil engineering, stormwater evaluation, permitting, environmental studies, ecological studies, geotechnical investigations, structural investigations, landscape design, construction services, recreation design, material testing, or utility design. There are very few firms that can

provide this expertise combined with the necessary depth of staff, local experience, higher education experience, and personal attention, all within one firm.

Our integrated team approach on every project involves three (3) effective principles – Collaboration, Communication, and Creativity. Through collaboration and communication, CED creatively develops solutions that meet the clients' needs and expectations. Our team will meet with college leaders on a regular basis to actively solicit input and share ideas. Our goal is to provide the client with clear, concise information that allows all parties involved the opportunity to make timely decisions based on this information.

Colliers Engineering & Design is also an industry leader utilizing the most progressive and technologically advanced equipment and methodologies in several disciplines. Our 3D Laser Scanning Services, both stationary and mobile units, enable us to quickly, accurately, and safely scan complex areas and structures that may be difficult to reach with traditional survey equipment. In addition, our inhouse Geophysical Services include GPR (Ground Penetrating Radar) and 2/3-Dimensional Subsurface Resistivity geophysical surveys. We have found these services to be extremely valuable to clients, especially in our partnerships with higher education clients.

Recognizing the diversity of projects that may be brought forward by The College of Morris County, Colliers Engineering & Design has the ability to supplement its in-house services with that of specialty consultants whose experience and expertise will round out our services to include roof design and industrial hygiene, mold investigation, and asbestos safety.

Our goal is to help clients succeed. By providing superlative service to our clients, we will be able to plan for future projects effectively and efficiently, as well as maintain the quality of life that is in the best interest of the students and staff of The College of Morris County.



FIRM OVERVIEW

For over 40 years, we have been dedicated to serving our clients by continuously expanding and diversifying our services. Today, we are proud to operate as a nationally recognized firm, delivering innovative solutions across multiple industries.

Throughout our history, we have consistently earned national recognition, including being named a Top 500 Design Firm by Engineering News-Record and securing a spot on Zweig Group's Hot Firm List of the fastest-growing companies.

Guided by our commitment to enhancing the built environment, our team takes pride in delivering the highest standards of customer service. With full-service, in-house expertise, cutting-edge technologies, and a proven project management approach, we ensure that our clients have access to the resources and strategies needed to maximize their project's success.

Our comprehensive range of services includes **Buildings, Civil/Site, Geo-Environmental, Governmental, Infrastructure, Project & Program Management, Survey/Geospatial, Telecommunications and Utilities.**



80+

Offices Nationwide



3000+

Professionals



8

Divisions



32nd

ENR Top 500 Design
Firm Ranking



Engineering
& Design



Firm Advantages

Colliers Engineering & Design has a strong track record of collaborating with educational facilities and boards of education to provide architectural design, interior design, building systems engineering for mechanical, electrical, and plumbing disciplines, landscape design, civil/site, environmental, geotechnical, surveying, stormwater management, regulatory compliance, and construction engineering and inspection. Getting to know the school district and its vision helps us establish a strong foundation for upcoming projects and future development. We collaborate with school administration and state-funding agencies to support the needs of the educational community.



- Design of education and transportation facilities and systems that are functional, ADA accessible, aesthetically pleasing, and cost-efficient to maintain
- We have developed a proprietary building data collection and assessment tool that provides decision makers and stakeholders with a single source of critical insight and allows survey data to be used more effectively for long-term planning
- Cost-saving measures and economic conditions always play a vital role in our design process
- Collaboration with school administration and state-funding agencies to support the needs of the educational community
- Knowledge of state and local requirements for design and permitting agencies in order to move your projects forward
- We are a trusted provider of multi-discipline engineering and architecture, design and consulting services working to solve our clients' most complex challenges.

Section 2

Resume of Primary Representative



Carl P. O'Brien, PE, PP, CME, CPWM

Senior Principal | Geographic Discipline Leader | Governmental Services

Education

BS Civil Engineering, Rutgers University, 1999

Professional Registrations

Professional Engineer (PE)
New Jersey, New York,
Connecticut, Rhode Island,
North Carolina, South
Carolina, Florida, Texas

Professional Planner (PP) New
Jersey

Certified Municipal Engineer
(CME) New Jersey

Certified Public Works
Manager (CPWM)

Professional Certifications

OSHA 30 Hr Construction
Industry Outreach Certified

OSHA 10 Hr Occupational
Safety and Health Certified

OSHA Confined Space Entry
Certified

Affiliations & Memberships

New Jersey Society of
Municipal Engineers

Mr. O'Brien has been providing municipal and civil engineering services for more than 25 years in over 50 municipalities. His leadership skills include project management and engineering design of multiple projects. Mr. O'Brien's innovative project expertise ranges from design of recreation complexes; pedestrian and bicycle facilities; streetscape beautification improvements; infrastructure maintenance programs; barrier-free ramp installation; and roadway resurfacing, to complete road reconstruction; widening with new drainage; sanitary sewer improvements; realignment of curbs; sidewalks; and utility relocations.

He is accountable for the management of projects from concept design through construction. He has utilized numerous New Jersey Department of Transportation Local Aid and various grants to construct many large-scale roadway and recreational sports complexes, as well as municipal infrastructure improvements. His extensive knowledge of and contacts with various review agencies facilitates the timely issuance of permits.

Mr. O'Brien is also the lead engineer for the Sports and Recreation Division for the Firm. He has designed recreational facilities and athletic complexes for Municipalities, Boards of Education, Counties, Colleges, and Universities. Mr. O'Brien utilizes NCAA and NFHS athletic field design procedures as the basis for planning the layouts.

Key Projects

Borough of Roselle, Union County, NJ

Mr. O'Brien has been serving the Borough of Roselle since 2009. Some highlighted projects include:

- Various Basketball Court Renovations
Provided design services for the milling, paving and color coating of three existing basketball courts. Project also included coordination with multiple funding agencies from the Union County Kid's Trust Grant, Board of Education and the Borough.
- Sylvester Land Field Synthetic Turf Improvements
Provided planning, site design and engineering services associated with the multi-use synthetic turf field improvements totaling 90,000 SF of turf and a two-lane walking track that surrounds the site. The plans included grading, drainage, stormwater management, soil erosion, and sediment control. The multi-use field is permanently lined for football, soccer and little league baseball/softball. The project also included the

construction of a basketball court, grandstand bleachers, sports field lighting and a wireless multi-use scoreboard.

- Roselle High School – Arminio Field – Sports Complex Improvements

Provided planning, site design and engineering services associated with the multi-use synthetic turf field improvements totaling 100,000 SF of turf and a six-lane synthetic rubberized track along with home and away bleachers, press box, sports field lighting, wireless multi-use scoreboard, and 7,500 square foot multi-purpose building. The plans included grading, drainage, stormwater management, soil erosion, and sediment control. The multi-use field is permanently lined for football and soccer. Green Acres Funding was utilized throughout the project to offset the Borough funds required.

- Chestnut Street Streetscape

Provided inspection and design services for the reconstruction of an existing roadway and sidewalk as part of a multi-phased, 20-block streetscape improvement project. The first phase consisted of a 2-block improvement extending from First through Third Avenues with additional phases to follow. NJDOT and federal funding was received to reconstruct an area that included re-grading and re-surfacing of the sidewalk areas; new sewer lines, installation of new curbs with ADA aprons; and streetscaping including installation of new stairs and planters on the Borough Hall.

- Yearly Road Programs

Prepared engineering design plans and specifications since 2009 road rehabilitation programs. Project responsibilities included design, bidding services, construction administration and coordination with multiple funding agencies from the NJDOT Local Aid, Community Development, and the Borough. Typical yearly paving projects exceed \$2 million annually in overall roadway construction improvement costs.

- Borough Roadway and Pavement Management Evaluation

Developed a roadway maintenance program by evaluating the existing road system (approximately 50 miles of Borough roadway) and provided recommendations for yearly upkeep and repairs. The evaluation included the inspection of Borough roadways to provide an engineering review of Borough trees, sidewalks, curbs and pavement conditions. A comprehensive report that summarizes each road by Ward, inclusive of a cost estimate for the improvements to each road, was provided to Council depicting the requirements that would be necessary to repair and repave the Borough roadways within a 20 year timeline.

- NJ Environmental Infrastructure Financing Program – Sanitary Sewer Lining Project

Prepared engineering design plans and acquired financing for the Borough to perform sanitary sewer system improvements to their sanitary sewer trunk line which includes the cleaning, television inspection and lining of approximately 2.5 miles (13,200 LF) of sanitary sewer pipe main. The project helped to decrease the amount of Inflow and Infiltration (I&I) that existed in the aging infrastructure as well as the sanitary sewer fees associated with I&I. GIS mapping and structure locations were also associated with this estimated \$1.7 million dollar capital improvement project.

- NJ Department of Environmental Protection – Green Acres Project

Coordinated with NJDEP Green Acres for project funding and provided preliminary engineering services for the construction of three neighborhood parks. The preparation

of preliminary site plans, site assessments, and researched history of the site, development of the Recreation and Open Space Inventory (ROSI) and preliminary construction estimates were performed. Basketball courts, play structures, splash parks, pathway lighting, landscaping and other site amenities were constructed.

- **Polk Park**
Provided design services for improvements to this park as part of a NJDEP Green Acres project involving the revamping of three Borough parks. Designed for passive recreation to complement the adjacent High School the park included a wide variety of landscaping; park lighting; clock tower; centralized water feature; mural wall for art projects; extensive seating; checkerboard tables; and full ADA accessibility.
- **Pine Street Park**
Provided design and construction administration services and for improvements to this park as part of a NJDEP Green Acres project involving the revamping of three Borough parks. This location was designed as a multi-generational complex with active/passive features including benches; gazebo; checkerboard tables; basketball courts; playground equipment; bocce ball court; horseshoe pit; splash park; landscaping; lighting; and ADA accessible restrooms.
- **Chandler Avenue Park Improvements**
Provided design and construction administration services for the improvements to this previously under-utilized park. This site was included all new playground equipment; interior security lighting (overhead and bollard fixtures); extensive landscaping; full ADA accessibility; benches, checkerboard and picnic tables, and a clock tower.
- **Borough of Roselle - Planning Board, Golf Course Redevelopment**
Plan review for proposal to redevelop a privately-owned, 60-acre golf course into 900 rental units. Worked with community outreach groups to reduce the original desired 2,400 residential units and increased the total open space. Assisted in the development of the redevelopment plan, agreement, and financial agreement.

New Municipal Building

Ridgefield, NJ

Delivered site design and bidding services for a two-story, 30,000-square-foot municipal complex combining Town Hall, police, and courthouse functions. Addressed complex topography with retaining wall design and integrated stormwater infrastructure.

Section 3

Organization Chart & Resumes of Key Personnel

Project Team

COUNTY COLLEGE OF MORRIS



Principal-in-Charge
Andrew R. Hipolit,
PE, PP, CME, CFM, CPWM



Project Manager
Carl P. O'Brien,
PE, PP, CME, CPWM



Construction Manager
Richard Brown, NICET IV

Survey
Eric Wilde, PLS

Traffic
Adam Allen, PE, PTOE

GIS Asset Management
Suzanne Zitzman, GISP

Grant Writing
Kelsey Howard

Civil/Site
Steven Sihota
Derek Jordan, PE

Geotechnical
Rebeka Pedrick, PE

Natural Resources
Joseph Layton

Structural
Richard Maloney, PE
William Doll, PE

Stormwater
Stephen Gomba, PE,
CFM

Environmental
Kurt Martin, LSRP

Construction Engineering
Max Ritner

Solar
Thomas Brys, CEP, CEM,
CDSM, CSDP

Landscape Architecture
Christopher Gammons,
LLA, RLA, ASLA



Andrew R. Hipolit, PE, PP, CME, CFM, CPWM

Senior Principal | Discipline Leader | Governmental Services

Education

BS Civil Engineering, New Jersey Institute of Technology, 1990

Professional Registrations

Professional Engineer (PE)
Delaware, Florida,
Connecticut, Michigan, New Jersey, New York, North Carolina, Ohio, Rhode Island, South Carolina, Texas

Professional Planner (PP)
New Jersey

Certified Municipal Engineer (CME) New Jersey

OSHA 30 Hr Certified

Certified Floodplain Manager (CFM)

Certified Public Works Manager (CPWM)

Affiliations & Memberships

Math, Science & Engineering Advisory Council, Morris County School of Technology

Mr. Hipolit has extensive experience that spans over 30 years in planning, design, and inspection of municipal, residential, and commercial projects. He has been accountable for the management of municipal projects from concept design through construction as well as the review of plans, reports, and other documents submitted to Planning Boards and Zoning Boards of Adjustment. In addition to being a Professional Engineer and Planner, he is also a Certified Municipal Engineer and a Certified Public Works Manager. His focus of expertise includes the design and oversight of roadway improvements and projects involving the planning and design of municipal buildings, recreational facilities, athletic fields, stormwater and sanitary sewer conveyance systems, and grant administration.

Mr. Hipolit has successfully secured over \$10 million dollars in municipal aid funds from the NJ Department of Transportation Trust Fund for various projects. His extensive knowledge of the permitting process and his established contacts with review agencies facilitates the timely issuance of permits. Mr. Hipolit also has broad experience with the development of the municipal Stormwater Management Plans and ordinance revisions. His comprehensive knowledge has enabled him to provide expert testimony and representation to municipalities' governing bodies, Planning and Zoning Boards, and private clients.

Key Projects

Borough Engineer

Borough of Montvale, Bergen County, NJ

- **Fieldstone School Athletic Fields**
Prepared engineering design plans and specifications for grading, and drainage of a synthetic turf field. Provided bidding and construction administration services.
- **Wireless Communications Tower**
Assisted with the preparation of a request for proposals for the formation of a wireless communications monopoly and infrastructure. Performed research and recommendations on various wireless communication requirements and cost estimates.
- **Yearly Road Program**
Prepares engineering design plans and specifications for an annual road rehabilitation program including milling, paving, microsurfacing, drainage, curb, and sidewalk improvement for various roads within the Borough.

- **Specifications for Outsourcing Municipal Services**
Prepared specifications for the outsourcing of municipal services including sanitary sewer and storm sewer repairs, garbage, recycling, yard waste, grass-cutting, snow plowing, street sweeping, and various other municipal services.
- **Grant Coordination**
Applied for and received Local Aid Grants every year since 1995 at a rate of approximately \$150,000 per year. Also applied for and received NJDOT Safe Routes to School and Safe Streets to Transit Grants, Bergen County Open Space, and Bergen County Community Development Block Grants.
- **NJDOT Local Aid Grant Roadway Projects**
Prepared plans, specifications, bidding services, and construction administration for NJDOT Local Aid Grants for roadway improvements to various streets throughout the Borough including Akers Avenue, Magnolia Avenue, Memorial Drive, and Terkile Road.

Borough Engineer

Borough of New Providence, Union County, NJ

- **Outfall Restoration**
During Hurricane Irene, the high velocity of uncontrolled stormwater caused accelerated erosion that carved out deep ravines in the terrain of New Providence. Expedited timelines and engineering design modifications to the outfalls enabled the Borough to obtain a FEMA Federal Assistance Grant and General (GP11) permit from the New Jersey Department of Environmental Protection (NJDEP) to reconstruct the outfalls in the wetland. The Borough also received a Somerset-Union Soil Conservation District certification for the bank stabilization to repair the two worst outfalls. The most significant element of this project was the Borough's decision to make modifications to the original outfall design, thereby improving the existing system to withstand future storm damage and keeping the project within the constraints of the NJDEP General (GP11) permit. This decision eliminated the need to trigger a more costly customized NJDEP permit, which would have required a more lengthy approval process without a guarantee of approval. The Borough could not risk losing the funding by missing the FEMA deadline.
- **NJDOT Local Aid Grant Roadway Projects**
Prepared plans, specifications, bidding services, and construction administration for NJDOT Local Aid Grants for roadway improvements to various streets throughout the Borough including Central Avenue, Livingston Avenue, Ryder Way, and Floral Avenue.
- **Grant Coordination**
Applied for and received Local Aid Grants every year since 2003 at a rate of approximately \$200,000 per year. Also applied for and received NJDOT Safe Routes to School and Safe Streets to Transit Grants, Union County Open Space, and Union County Community Development Block Grants.
- **NJDEP Stormwater Coordinator and Flood Plain Manager**
Serves as the NJDEP Stormwater Coordinator and Flood Plain Manager for the Borough.
- **Sanitary Sewer Improvements**
Prepares plans and specifications annually for the various repairs to sanitary sewer system

including lining, point repair, manhole rehabilitation, and pump station upgrades.

- **Emergency Shelter Generator Installation**
Prepared plans and specifications for the design and installation of a 300KW emergency generator system to sustain utilities for the municipal, police, emergency shelter, and rescue squad buildings during power outages.
- **Athletic Field Renovations**
Worked with the Borough of New Providence to renovate Hillview Field, Lincoln Field, Oakwood Park and Grove Field. Hillview Field was an existing grass baseball/soccer field that was modified to include two synthetic turf infields connected by a natural grass outfield. Lincoln Field was an existing natural grass complex, renovated as a natural grass complex, but upgraded to meet current standards for baseball and soccer. Oakwood Park was an existing natural grass athletic complex, modified to include a synthetic turf, multi-use field for baseball, softball, lacrosse, soccer and football and a second baseball field with synthetic turf infield and natural grass outfield.

Borough Engineer

Borough of Tenaflly, Bergen County, NJ

- **Yearly Micro-Surfacing**
Provided municipal engineering and construction inspection services for the yearly micro-surfacing project. Micro-surfacing is a mixture of polymer modified asphalt emulsion, mineral filler, water, and other additives that is properly proportioned, mixed, and then spread across a paved surface at 1/4" thickness. Considered to be one of the most versatile tools in "road maintenance," micro-surfacing utilizes a polymer modified cold-mix paving system that is very cost effective and can remedy a wide range of problems on roadways.
- **ADA Recreation Compliance Investigation and Report**
Performed an inspection and evaluation of all Borough recreational facilities and prepared a comprehensive analysis of the facilities for safety and ADA accessibility compliance. Provided recommendations for improvements to each facility, cost analyses, and timeline for each improvement in accordance with the 2010 amendment to the ADA.
- **NJDEP Stormwater Coordinator and Flood Plain Manager**
Serves as the NJDEP Stormwater Coordinator and Flood Plain Manager for the Borough.
- **NJDOT Local Aid Grant Roadway Projects**
Prepared plans, specifications, bidding services, and construction administration for NJDOT Local Aid Grants for roadway improvements to various streets throughout the Borough including: Columbus Drive and Tenaflly Road.
- **Yearly Road Program**
Prepares engineering design plans and specifications for a yearly road rehabilitation program including milling, paving, drainage, curb, and sidewalk improvements for various roads within the Borough.
- **Tenaflly Road, Sections 1, 2 & 3**
Prepared design drawings and construction specifications and provided grant administration for improvements to Tenaflly Road, funded through \$300,000 in grants from the NJDOT Municipal Aid Program. Improvements included the replacement of curbs, sidewalks, and concrete driveway aprons and the milling/resurfacing of Tenaflly Road. In addition, all ADA

curb ramps were reconstructed, and detectable warning surfaces installed for compliance with current ADA regulations. Additional items included roadway base repair, resetting of various structures, installation of bicycle safe grates, installation of NJDEP approved curb pieces, reconstruction of drainage structures, and roadway striping.

- **Grant Coordination**
Applied for and received Local Aid Grants every year since 2010 at a rate of approximately \$200,000 per year. Also applied for and received NJDOT Safe Routes to School and Safe Streets to Transit Grants, Bergen County Open Space, and Bergen County Community Development Block Grants.
- **Lightning Detection System**
Prepared plans specifications and construction administration for the purchase and installation of the Borough-wide Lightning Detection System, including Board of Education properties.

Borough Engineer

Borough of Englewood Cliffs, Bergen County, NJ

Served as the Borough Engineer performing various functions and providing design plans for improvements to roadways, recreational facilities, utilities, and buildings.

- **Area in Need of Rehabilitation**
Investigated the B1 Zoning District water and sanitary systems to determine which systems are at least 50 years old and in need of repair or substantial maintenance. Prepared a detailed engineering report indicating each Area in Need of Rehabilitation pursuant to the Local Redevelopment and Housing Law (NJSA 40A:12A-14 & 15).

Planning and Zoning Board Engineer

City of Summit, Union County, NJ

Reviews Board applications for residential, commercial, and retail developments. Provides the detailed review of all applications for completeness, identification of variances, and compliance with City ordinances.



Project Leaders

Richard A. Brown

Director

richard.brown@collierseng.com

Education and Qualifications

Associate of Science
Engineering – Rowan
College of Burlington
County

Accreditations and Memberships

National Institute for
Certification in
Engineering
Technologies Level IV –
Transportation (NICET
IV)

Environmental and
Occupational Science
Institute for Hazardous
Materials (UM0101189)

OSHA 30 Certified

Years of Experience

33 years

Years with Firm

4 years

www.cplusa.com

Area of Expertise

Mr. Brown has more than 30 years of experience as a program management and project/construction management expert, with particular focus on phasing and staging complex projects for both public and private clients. His responsibilities include overseeing construction project management services to develop value-engineered concepts to meet owner budgets, while managing overall project schedules, owner/architect meetings, bid review and contract award negotiations. Rich has managed several large-scale, high-profile projects in the State of New Jersey, including the South Ward 5th Police Precinct, Hudson County Community College, and \$1.3 Billion Harrison Waterfront Redevelopment.

Relevant Experience

Hudson County Community College – Academic Building – Jersey City, NJ

Project management services for the renovation project that converted an existing former welfare building into a thriving educational environment. The 20,000 gsf, three-story building features nine classrooms, two computer labs, testing lab with two directors' offices, a writing center, administrative space, a Dean of Instruction office, two Assistant Dean offices, and a student lounge. The renovation included an interior conversion office space into classrooms, electrical upgrades, and a new roof and windows.

Hudson County Community College – Administrative Building – Jersey City, NJ

Project management services for the complete renovation and conversion of the building, including the installation of new mechanical, electrical, plumbing, and fire/life safety and telecommunication systems. The administrative offices at Hudson County Community College were consolidated into 70 Sip Avenue, a 40,000 gsf space with four floors and a basement.

Hudson County Community College – Culinary Arts Institute & Conference Center – Jersey City, NJ

Project management services for the construction of a new 73,000-SF, five-story culinary arts institute and conference center. The new state-of-the-art facility includes eight teaching kitchens, a production kitchen, a line kitchen, a bakery, and more. This building also includes a 300-person banquet facility, a 5,000 SF conference facility, and seven classrooms.

Hudson County Community College – Culinary Arts Plaza Park – Jersey City, NJ

Construction management services for conversion of a 13,025 gsf commercial parking lot into a new plaza. Located directly across from Hudson County Community College's new Culinary Art Institute and Conference Center, the new Plaza offers green space in this urban center. Students, faculty, and visitors are provided with a sense of place via the new plaza with its tree-lined setting, water feature walls, and a circular designed paving area with seating. A portion of the park is also available for private College events.



Eric V. Wilde, PLS

Principal | Geographic Discipline Leader | Survey

Education

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

B.S. Economics, James
Madison University

Professional Registrations

Professional Land Surveyor
(PLS) New Jersey

Affiliations & Memberships

New Jersey Society of
Professional Land Surveyors

Mr. Wilde has over 30 years of experience in surveying in the civil engineering and site development field. He is the Geographic Discipline Leader for Survey in our Holmdel office, supervising construction projects, land surveying projects, and coordinating our Municipal and Civil-Site Land Surveying operations. Mr. Wilde's project management skills help him stay highly organized and help his projects run more efficiently, due his detailed administrative nature. This administrative nature helps him manage a project with an emphasis on scheduling, financial budgets, project deliverables, and project execution. He has excellent administration skills and excels at both verbal and written communication. His daily duties included the development of daily work schedules, weekly reports, correspondence on project schedules, and the tracking of the status of projects. He attends weekly meetings and develops reports on projects, billings and workload. During these meetings he updates other managers on the status of work and makes commitments to meet critical deadlines. He completes daily timesheets and prepares monthly reports on billings; he attends biweekly meetings regarding both his billings and collections.

He has progressive experience from instrument-man, party chief, survey technician, through to Geographic Discipline Leader. His experience includes boundary surveys, topographic surveys, major and minor subdivisions, boundary line adjustments, as-built plans, route surveys, ALTA/NSPS Land Title surveys, flood elevation certificates and NJDOT general property parcel plans, including deed research, calculations, boundary analysis, writing descriptions and AutoCAD drafting. Additional experience includes road and easement calculations, road plans and profiles, stormwater management plans, grading plans, soil erosion plans and farmland preservation surveys. Mr. Wilde has been admitted as an expert witness in Middlesex County Superior Court.

Key Projects

Active Acquisitions, 20004536A

Wall Township, Monmouth County, NJ

Project Manager - Colliers Engineering & Design prepared the survey of a 294-acre parcel of land for a private property owner in Wall Township. This project included boundary and aerial topographic survey to be referenced for a site plan application. Mr. Wilde's role as Project Manager involved the coordination of both the field and office personnel for the collection and analysis of the data. He was also responsible for the analysis and resolution of the property lines. He performed QA/QC for this project as the project team leader.

Active Acquisitions. 19000778A

Chesterfield Township, Burlington County, NJ

Project Manager - As the Project Manager, he was responsible for the preparation of boundary survey, topographic survey and wetland survey locations for the site development of a 177-acre parcel. He coordinated field and office tasks and also implemented Quality Assurance and Quality Control standards to ensure project compliance.

Berkeley Plaza, 1199755D

Berkeley Township, Ocean County, NJ

Project Manager - Colliers Engineering & Design prepared the survey of a 30-acre shopping center in Berkeley Township. This project included boundary and topographic survey to be referenced for a site plan application. Also included was the survey of a portion of NJSH Route 9 for the purposes of NJDOT permitting. Mr. Wilde's role as Project Manager involved the coordination of both the field and office personnel for the collection and analysis of the data. He was also responsible for the analysis and resolution of the property lines. He performed QA/QC for this project as the project team leader.

Route 46 Improvements, MHT-133

Mine Hill Township, Morris County, NJ

Project Manager - Colliers Engineering & Design prepared a route survey of 7,500 feet of US Highway Route 46 in Mine Hill Township, which included coordination for traffic control and utility locations. Mr. Wilde's role as Project Manager involved the coordination of both the field and office personnel for the collection and analysis of the data. He performed QA/QC for this project as the project team leader.

Bayonne Aqueduct, 16000806B

Hackensack City, Bergen County, NJ

Project Manager - Colliers Engineering & Design prepared a boundary and topographic survey of a 12.8-acre parcel of land for a utility crossing the Hackensack River per New Jersey State Green Acres specifications. This project included a State House Commission Application for the Diversion of Green Acres Encumbrances & Restrictions. Mr. Wilde's role as Project Manager involved the coordination of both the field and office personnel for the collection and analysis of the data. He was also responsible for the analysis and resolution of the property lines. He performed QA/QC for this project as the project team leader.

Education

B.S. Civil Engineering, Drexel University

Professional Registrations

Professional Engineer (PE),
New Jersey, Pennsylvania,
Delaware

Professional Certifications

State of NJ Department of
Community Affairs (DCA)
Special Inspector Certification
for Reinforced Concrete, Post
Installed Concrete Anchors,
Soils, Deep/Helical Pile
Foundations and Exterior
Insulating Finishing Systems
(EIFS)

Affiliations or Memberships

American Society of Civil
Engineers

Rebeka L. Pedrick, PE

Principal Associate | Geographic Discipline Leader
Geotechnical Services

Ms. Pedrick is the Geographic Discipline Leader for South and Central New Jersey and is based in our Mays Landing, NJ office. She is an experienced group manager and geotechnical engineer with more than fifteen (15) years of experience. She has experience performing geotechnical subsurface investigations, engineering analysis and design, and construction consultancy.

Key Projects

Educational Facilities & Recreation Parks

Haupt Field Stadium Improvements – Clayton Public School District

Borough of Clayton, Gloucester County, NJ / Lead Geotechnical Engineer

Lead Geotechnical Engineer for the proposed stadium improvements. The proposed improvements include replacing the existing grass cover field with synthetic turf, new visitor and home bleachers, a new ticket booth, a new scoreboard, and a new storage building for the visiting team. The subsurface exploration program included seven test borings within the new structural features to provide geotechnical design and construction recommendations, and five test pits performed along the perimeter of the existing football field to provide preliminary infiltration rates for stormwater management design. Foundation recommendations included shallow foundation and slab-on-grade construction for the proposed buildings, mat foundations for the proposed bleachers, and drilled-in-pier recommendations for the new scoreboard.

Lightning Brook Park Improvements

Union Township, Union County, NJ / Lead Geotechnical Engineer

Lead Geotechnical Engineer for the proposed park improvements. The proposed improvements include the construction of a new synthetic turf soccer and baseball fields with associated player benches and spectator bleachers, a beach volleyball court, a perimeter walking path, facility lighting, a parking lot expansion, and a new restroom/storage building. The subsurface exploration program included five test borings within the new structural features to provide geotechnical design and construction recommendations, and six test pits performed within the field and new stormwater management area to provide preliminary infiltration rates for design of stormwater management features. Foundation recommendations included shallow foundation and slab-on-grade construction for the proposed buildings and bleachers and drilled-in-pier recommendations for the new facility lighting.

Proposed Pole Barn Rowan College of South Jersey – Cumberland Campus

City of Vineland, Cumberland County, NJ / Lead Geotechnical Engineer

Lead Geotechnical Engineer for the proposed pole barn development. The project includes the construction of a pole barn with an approximate 2,600 square feet building footprint. The subsurface exploration program included two test borings within the new structural features to provide geotechnical design and construction recommendations. Foundation recommendations included shallow foundation and slab-on-grade construction for the proposed pole barn.

Proposed MOTUS Soccer Complex – Richwood Estate

Township of Harrison, Gloucester County, NJ / Lead Geotechnical Engineer

Lead Geotechnical Engineer for the proposed soccer complex development. The proposed development includes the construction of a main venue with bars, restaurants, and other retail outlets (approximately 225,000 square feet), multiple paddock areas containing approximately 72 soccer fields, two hotels each containing 3 to 4 floors with approximately 48,000 to 52,000 square feet of hotel space, corresponding parking areas, and associated stormwater management features. The evaluation was limited to profile pits and soil permeability testing for the stormwater management features for the proposed sports center development. The stormwater management features consist of infiltration basins spread throughout the development. The subsurface exploration program included 40 test pit excavations each with field and/or laboratory infiltration testing of representative subgrade soils to provide preliminary infiltration rates for design of stormwater management features. A continuously sampled test boring was also completed to provide parameters for groundwater mounding analysis.

Enlightened Solutions Campus Expansion

Egg Harbor City, Atlantic County, NJ / Lead Geotechnical Engineer

Lead Geotechnical Engineer for the proposed campus expansion project. The expansion includes the construction of three new buildings around a cul-de-sac in the northern portion of the campus, consisting of two living unit buildings, and a combined clinic and living unit building, and typical site improvements. The proposed buildings are two-stories with footprint areas ranging from approximately 2,650 square feet to 5,250 square feet. Clearing of previous wooded areas and site fills required for the proposed development were placed prior to our explorations, which limited applicability of typical subgrade improvement recommendations. The subsurface exploration program included seven test borings within the new structural features to provide geotechnical design and construction recommendations. Foundation recommendations included shallow foundation and slab-on-grade construction for the proposed buildings. Explorations for the future expansion of two additional living units around the cul-de-sac were not included at this time.

Proposed Building at National Aerospace Research and Technology Park

Egg Harbor Township, Atlantic County, NJ / Lead Geotechnical Engineer

Lead Geotechnical Engineer for the proposed NARTP facility expansion. The proposed construction consists of a three-story building with an approximate footprint area of 21,000 square feet. Due to undulating existing site grades, variable fills of up to 5 feet are anticipated across the site to establish the finished floor elevation. The subsurface exploration program included 4 test borings within the new building footprint to provide geotechnical design and construction recommendations, and 4 test borings within the new parking areas to provide subgrade parameters for use in pavement design. Foundation recommendations included shallow foundation and slab-on-grade construction for the proposed building. Colliers Engineering & Design also performed special inspection and material testing services during building pad construction.



Kurt A. Martin, ^{LSRP}

Principal Associate | Geographic Discipline Leader |
Environmental Services

Education

B.A. Geology, Bucknell
University

Professional Registrations

Licensed Site Remediation
Professional (LSRP) New
Jersey

NJDEP Subsurface Evaluator

Mr. Martin has been involved with environmental investigations in New Jersey since 1990. His extensive experience in the field of environmental consulting also includes three years of case management responsibilities at the New Jersey Department of Environmental Protection (NJDEP). His private and municipal experience includes project management, environmental site investigations pursuant to the New Jersey Technical Requirements for Site Remediation (NJAC 7:26E), underground storage tank closure monitoring and reporting, regulatory compliance and permitting, and preparation of New Jersey Hazardous Discharge Site Remediation Fund (HDSRF) municipal and private grant/loan applications.

Key Projects

Hazardous Discharge Site Remediation Fund

Mr. Martin is responsible for the completion and securing of HDSRF Applications which include recommendations for municipal resolutions, preparation of investigation work plans, and cost estimates needed for complete applications. A sampling of representative projects includes the following:

Proposed Redevelopment Projects

Borough of Northvale, Bergen County, NJ

Responsible for preparing and securing of HDSRF grants from the New Jersey Department of Environmental Protection/New Jersey Economic Development Authority to cover the costs for completion of a remedial investigation at the former Tect/Danzig and Deluxe Cleaners sites.

Proposed Redevelopment Project

Hillsborough Township, Somerset County, NJ

Responsible for preparing a HDSRF application for submission to New Jersey Department of Environmental Protection/New Jersey Economic Development Authority to recover costs for the remedial investigation tasks completed to date.

Proposed Redevelopment of Sunnymead Landfill

Hillsborough Township, Somerset County, NJ

Responsible for preparing HDSRF application for submission to NJDEP/NJEDA for costs associated with the proposed capping remedial action.

Proposed Redevelopment of Ping Wang Site

Borough of New Providence, Union County, NJ

Responsible for preparing HDSRF application for submission to NJDEP/NJEDA, for costs associated with the proposed remediation investigation of a former commercial site.

Environmental Assessments/Regulatory Compliance

Mr. Martin has prepared and conducted Environmental Phase I Assessments for many residential, commercial, and industrial property transfers in accordance with ASTM guidelines. In addition, Mr. Martin has prepared and conducted numerous Preliminary Assessments, Site Investigations, Remedial Investigations, and Remedial Action Work Plans in accordance with N.J.A.C. 7:26E. A sampling of representative projects includes the following:

PepsiCo UST Removals and Groundwater Investigation

Borough of Teterboro, Bergen County, NJ

Prepared an Expert Report on behalf of Bergen County regarding the removal of underground storage tanks (USTs) and contaminated soil at the former Potdevin Machine Company site in Teterboro. When Bergen County purchased the property in November 2007, it contained petroleum impacted soils resulting from a 1997 fuel line leak associated with former No. 4 heating oil USTs that were present in the subsurface beneath the existing building. Three 4,000 gallon single wall steel USTs were later discovered in March 2010 during site construction activities. Upon discovery of the tanks, the former property tenant, PepsiCo, was deemed responsible for the tanks and was asked to initiate UST closure and related cleanup activities. When PepsiCo took no action, the task of UST closure and clean up fell to Bergen County. Colliers Engineering & Design monitored closure activities for the USTs. Once the USTs were removed, impacted soil was excavated until field screening indicated no further need for excavation. Soil and groundwater samples were taken and submitted for VOC analysis. Colliers Engineering & Design will perform groundwater sampling/analysis events to further characterize groundwater conditions around the UST. It is anticipated that the sampling will show a trend of decreasing groundwater concentrations of benzene and TBA and vinyl chloride.

Remedial Investigation at Former Tect/Danzig Site

Borough of Northvale, Bergen County, NJ

Responsible for the completion of a pre-design remedial investigation of soil at a former industrial operation. The scope of work required over 120 borings throughout the site along with the collection of samples at various depths within each boring. The purpose of the investigation was to gather site specific data in order to prepare a remedial action work plan for the redevelopment purposes. A commercial facility is proposed which will require the installation of a sub slab vapor mitigation system including the installation of a 60 mil thick vapor barrier under the proposed concrete floor. This project also involves cooperation with NJDEP who are in charge of the investigation and remediation of groundwater contaminants discharged from the former industrial use.



Adam Allen, PE, PTOE

Senior Principal | Discipline Leader | Highways & Traffic

Education

B.S. Civil Engineering,
Lafayette College

Professional Registrations

Professional Engineer (PE):
NJ, NY, PA, CT, FL, NC, TX, MI

Professional Traffic
Operations Engineer (PTOE)

Professional Certifications

Traffic Signal Operations
Specialist (TSOS)

IMSA Traffic Signal Technician
Level II

IMSA Work Zone Temporary
Traffic Control Technician

Adaptive Traffic Control
Systems Certification, Florida
Atlantic University

Building High Performing
Teams Certificate, University
of Pennsylvania – Wharton
School of Business

Mr. Allen leads a team of transportation professionals with diverse technical expertise in all aspects of highway design, traffic engineering, complete streets, traffic operations, roadside safety, and ITS services. With over 70 individuals scattered across seven states, his team's mission is to deliver cutting-edge solutions to provide safer and more efficient transportation systems for the communities they serve. With 20 years of experience with private and public sector clients, his personal specialty lies in all aspects of traffic signal design and operations, having successfully completed projects ranging from single traffic signal installations to large-scale signalization efforts consisting of over 90 intersections. On multiple occasions, Mr. Allen has been retained by New Jersey Department of Transportation (NJDOT) to teach traffic signal training classes to their employees. He is also very committed to the Institute of Transportation Engineers (ITE), where he humbly served the Northeastern District President (2021), the Metropolitan Section of New York and New Jersey President (2013) and is also an alumnus (2014) and Chair Emeritus (2021) of LeadershipITE. He has also served as the Traffic Signal Design and Operations Subcommittee Chair on the ITE Traffic Engineering Council's Executive Committee since 2019.

Key Projects

On-Call Traffic Engineering Services Contract

Port Authority of New York and New Jersey (PANYNJ)

Colliers Engineering & Design has been providing "on-call" traffic engineering services to the Port Authority of New York and New Jersey (PANYNJ) since 2010. Colliers Engineering & Design has been assigned over 85 projects totaling over \$20 million in design fees over that time frame on a series of contracts related to Traffic Signals, Traffic Design & Planning, Redevelopment Programs, and Traffic Safety. These assignments have been conducted at the PANYNJ's iconic transportation facilities like the Lincoln Tunnel, Holland Tunnel, George Washington Bridge and John F. Kennedy International Airport. Our services including the following tasks: project management, traffic signal design, pavement marking improvements, maintenance of traffic, detour route development, signing improvements, ADA compliance review, safety audits and engineering, guiderail design, ITS design, traffic analysis, and educational seminars. In addition, we have worked with the Authority to develop several guidelines and standards, including the PANYNJ Traffic Signal Design Guidelines, the PANYNJ Signalized Intersection Pedestrian Treatment Guidelines, and the PANYNJ Pavement Marking Design Guidelines.

General Engineering Consultant

South Jersey Transportation Authority (SJTA)

Colliers Engineering & Design has been providing “on-call” engineering services as a General Engineering Consultant (GEC) to the South Jersey Transportation Authority (SJTA) since 2017. The Colliers Engineering & Design team has successfully led various tasks related to roadway design, highway lighting, streetscape improvements, drainage design, construction inspection, and water infrastructure improvements along the Atlantic City Expressway (ACE) and within the City of Atlantic City. Some of the most notable tasks on this project included the Virginia Avenue Improvement Project, the Farley Service Plaza Electrical Generator Installation, the Atlantic City Expressway (ACE) Interchange Lighting Improvement Project, the Farley Service Plaza Water Tower Rehabilitation, and multiple tasks at Pump Stations along the ACE. In many cases, extensive coordination was required with regional partners such as the New Jersey Turnpike Authority (NJTA) and Atlantic City Electric Company. Bid documents were developed in accordance with SJTA standards and the NJDOT Standard Specifications for Roadway and Bridge Construction.

Bloomfield Avenue Traffic Signal & Safety Improvement Project

The County of Essex (NJ)

Essex County was awarded a grant through the NJTPA's Highway Safety Improvement Program (HSIP) to make traffic signal and safety improvement along the Bloomfield Avenue (C.R.506) corridor in downtown Montclair, NJ. As part of their On-Call Traffic Engineering agreement, Mr. Allen served as the Colliers Engineering & Design Project Manager. Our team has worked closely with the County and the Township to determine the desired improvements at each of the 12 intersections to appropriately balance traffic flow and efficiency along the corridor while also implementing various safety improvements for pedestrians in this walkable downtown area. Each of the 12 intersections will receive new traffic signal equipment, “ergo” crosswalks, and the entire project limits will be re-paved. Pedestrian safety and accessibility features including audible pedestrian push buttons, curb bump-outs, countdown pedestrian indication and new ADA compliant curb ramps were included throughout. In addition, the signals are being designed to be integrated with the County's traffic signal management software.

NJDOT Classification of Arterial System Technology (COAST-NJ)

New Jersey Institute of Technology (NJIT) ITS Resource Center

Colliers Engineering & Design's Project Manager, as part of a team with the ITS Resource Center at New Jersey Institute of Technology (NJIT) and AECOM, Inc., helped develop the original version of the statewide Classification of Arterial System Technology (COAST-NJ). COAST-NJ is a plan which systematically identified and proposed upgrades to all traffic signal systems on NJDOT roadways by infusing “intelligent” features over a 10-year period. Tier Classifications (T1-T6) for the desired traffic signal characteristics were developed including Adaptive Traffic Signal Systems and Computerized Traffic Signal Systems (CTSS). The team gathered data from various sources to identify existing equipment features and capabilities of over 2,500 traffic signals under NJDOT jurisdiction. Using the Statewide Intersection Analysis Process (SIAP), traffic data was analyzed using HCS and a scoring system was developed to categorize each signal system into its optimal design tier. These intersections are then prioritized based on necessary improvements, and a Project Pipeline and Capital Plan was developed for implementation and deployment. This project was the winner of the Intelligent Transportation Society of New Jersey – Award for Outstanding ITS Project.



Joseph P. Layton

Principal Associate | Discipline Leader | Natural Resources

Education

B.S. Environmental Planning and Natural Resource Management, Rutgers University, Cook College

Professional Certifications

NJDEP Certified Subsurface Evaluator, License #229606

NJDEP Certified Underground Storage Tank Closure

Environmental Assessment Association - Certified Environmental Specialist

Certified Remediation Specialist

Radon Measurement Specialist #MES11066

40 Hr NJ/EPA Model Lead Inspector/Risk Assessor

OSHA 40 Hr HAZWOPER Training

8-Hour OSHA HAZWOPER Refresher Training

Affiliations & Memberships

Ecological Society of America

Society of Wetland Scientists

Mr. Layton is an Environmental Scientist with over 24 years of experience including an extensive background and expertise in environmental sciences. His expertise includes an emphasis on wetland delineation, regulatory permitting and compliance, environmental assessment, environmental impact analysis, and soil evaluation. His diversified experience also includes natural resource evaluations, ecological research, watershed management, subsurface explorations, underground storage tank exploration and removal, soil classification systems, and environmental sampling design and protocol in accordance with State and Federal regulations. He utilizes Geographic Information Systems (GIS) and Global Positioning Systems (GPS) in environmental sampling and studies, including site remediation design and sampling, groundwater and surface water quality monitoring and management, and lake rehabilitation and restoration.

As Assistant Department Manager, Mr. Layton has utilized the aforementioned experience and technical skills to successfully assist clients with litigation support and regulatory compliance and has been deemed an expert in the field by various Planning and Zoning Boards while providing testimony regarding the same. His proven dedication to client satisfaction has resulted in long standing professional relationships. His client base includes private development and redevelopment companies, municipalities, county governments, infrastructure authorities, daycare facilities, higher education institutions, financial institutions, utility companies, and law firms.

Key Projects

Groundwater Quality Monitoring/ Management

Responsible for designing, implementing, and preparing groundwater monitoring and management plans. A sampling of representative projects includes the following:

New Jersey National Golf Club Groundwater Quality Monitoring Plan

Township of Bernards, Somerset County, NJ

Responsible for determining location and depth of monitoring wells; coordinating and supervising well installation; sampling and analyzing results; and determining groundwater flow and fate of contaminants.

Leisure Glen Retirement Community

Township of Manchester, Ocean County, NJ

Responsible for determining the location, depth and sampling parameters of groundwater monitoring wells in a 2,500-unit retirement and 18-hole golf course community widening, complete resurfacing of all 13 miles of existing roadway, safety improvements and implementation, as well as construction of IVHS systems in this corridor.

Trump National Hudson Valley Golf Club Groundwater Quality Monitoring Plan

Township of Bernards, Somerset County, NJ

Responsible for determining location and depth of monitoring wells; coordinating and supervising well installation; sampling and analyzing results; and determining groundwater flow and fate of contaminants.

Watershed Management /Lake Restoration

Responsible for determining sources of non-point pollution using available mapping and field reconnaissance, determining watershed boundaries, and preparing best management practices manuals.

- The Great Swamp National Wildlife Refuge Watershed Management Study, Morris & Somerset Counties, NJ
- Wemaconk Lake Restoration, Borough of Englishtown, Monmouth County, NJ

Wetland Delineation

Involved in the identification and delineation of numerous freshwater and tidal wetlands (over 10,500 acres) in New Jersey and New York. The assessment of wetland value (resource classification) was involved for many of these wetlands.

Runyon Interceptor Trunk Sanitary Sewer Line Alignment

Township of Old Bridge, Middlesex County, NJ

Determined alignment of two miles of sanitary sewer on a 400-acre+ site using aerial photography and site inspections minimizing impacts to numerous wetland communities.

Oakwood at Old Bridge

Township of Old Bridge, Middlesex County, NJ

Delineated freshwater wetlands on a 235-acre site, half of which was wetlands.

Ashland/Former Hercules Plant

Parlin, Middlesex County, NJ

Delineated freshwater wetlands on a 300-acre site formerly utilized as a munitions plant in 1930s-1960s.

MEC Power Generating Facility

Sayreville Borough, Middlesex County, NJ

Delineated freshwater and tidal wetlands on a 40-acre site formerly utilized as a landfill. Site recently delisted as a Superfund site and will be developed as an electric power generating facility.



Max Ritner

Project Manager

max.ritner@collierseng.com



Project Leaders

Education and Qualifications

Bachelor of Science
Structural Engineering –
Rutgers University, 2020

Years of Experience

3 years

Years with Firm

3 years

www.cplusa.com

Area of Expertise

Mr. Ritner is a professional with a background in structural engineering and interest in sustainable building endeavors. As a member of the Colliers Project Leaders team, Max works as a Project Manager providing project management services to both public and private institutions. Prior to joining our firm, Max worked for Najarian Associates by conducting field surveys of residential and commercial properties as well as Rutgers

Relevant Experience

Toms River Regional Schools – Capital Improvements – Toms River, NJ

Project management services for multiple projects as part of the Toms River Regional Schools' \$147 Million referendum to complete and upgrade its 24 existing schools. The plan includes funding for safety and security upgrades, improving accessibility through the Americans with Disabilities Act (ADA), heating, ventilation, and air conditioning (HVAC) units and controls, door and window replacements, renovation and upgrade of high wear and high use areas like science labs and playgrounds, with updated safety standards, and repair and repaving of parking lots and driveways.

Atlantic City Public Schools – Multiple Projects – Atlantic City, NJ

Project management services for various improvement projects including:

- **Atlantic City High School Roof Replacement:** Construction administration/construction inspection services.
- **Chelsea Heights School Trailer Relocation:** Relocation of three existing classroom trailers from behind the school to the front parking lot.
- **Atlantic City Public Schools HVAC Upgrades:** Replacement of various HVAC components at Martin Luther King Jr. Middle School, Atlantic City High School, and Uptown School Complex.
- **Dr. Martin Luther King Jr. School Complex Roof Replacement:** Construction administration/inspection services for the Board.

County of Ocean – Ocean County Library, Stafford Branch – Stafford Township

Project management services for the construction of a new public library facility in Stafford Township which includes a retention basin, mill and overlay paving, new asphalt paving, updated site grading, and coordinating temporary traffic impacts due to site logistics and phasing. The County plans to construct a 20,000 square foot building on County owned property currently housing the Ocean County Southern Service Center. Throughout construction, the site will remain open and accessible to both staff stationed at the Southern Service Center and community members who will still utilize the center.

Stalwart Equities – Industrial Warehouse – Fairfield, NJ

Project management services on the \$8 Million warehouse for Stalwart Equities. Coordinated acquiring both local and state permits for this 50,000 square foot warehouse in northern New Jersey. During the construction phase, services include managing the submittal process and on-site management of the construction, as well as managing the GMP structured project budget.



Suzanne M. Zitzman, GISP

Senior Principal | Discipline Leader
GIS Asset Management Services

Education

A.A.S. Applied Science,
Brookdale Community College

Professional Registrations

Geomatics Professional
Certificate, Rutgers University

Geographic Information
Systems Professional: GISP

Affiliations & Memberships

American Water Works
Association (AWWA)

Mid-Atlantic Chapter of the
Urban & Regional Information
Systems Association (MAC
URISA)

New Jersey Water
Environment Association
(NJWEA)

North Carolina ArcGIS Users
Group (NCAUG)

New York State Association of
Counties (NYSAC)

New Jersey Water Association
(NJWA)

Ms. Zitzman, a Senior Principal at the firm, has over 31 years of extensive GIS/GPS project management, design, and mapping experience in the transportation, and civil engineering fields. She manages the firm's national GIS Asset Management Services Division. Her skills include various aspects of utilizing web-based geographic information systems involving utilities, land use, property assessment, environmental and transportation assets.

Her experience includes GIS needs assessment and implementation planning for a variety of client types such as federal, county, and local government; private utility companies; and rail. She has been a keynote speaker on GIS asset management technology applications at state level conferences and received a national recognition award for her achievements in implementing web-based GIS management and public communication portal programs for local government.

Ms. Zitzman previously held the private sector NJ State GIS Council seat providing GIS assistance in the startup of the state's GIS program, NJGIN. Ms. Zitzman is a key member in the firm's Quality Control/Quality Assurance Committee, where company standard procedures and policies are designed and implemented.

Key Projects

State Agencies

New Jersey Water Association – NJWA <https://www.njwater.org/>

Ms. Zitzman developed and conducted state level credited courses, to provide educational opportunity, giving back to the NJ community we serve. The courses were offered and attended by the members of the NJWA that manage and own municipal and private water distribution systems throughout NJ. Approximately 8-10 courses were conducted throughout the state focusing on the use of GIS in the water industry, understanding how GIS can be used to manage the requirements of the Federal Clean Water Act, and the NJ WQAA Water Quality Accountability Act https://www.state.nj.us/dep/watersupply/g_reg-wqaa.html. Course overview of how GIS/GPS technology using Esri and Trimble solutions was provided to describe the implementation of eGIS programs for water distribution and water facility management.

PennDOT District 6 – Sign Inventory and Transportation Collection and Geodatabase Modeling

Professional services providing LiDAR and GIS mapping services. Project Manager for a 100-mile data collection along PennDOT District 6 routes. A geodatabase was created to manage the roadway surface features mapping curbing, medians, lanes, roadway shoulders, and pavement markings. The geodatabase included curve advisory inspection data, matching curves to existing speed limit signage.

The signs were catalogued by MUTCD code, and condition attributing. The data will be used to manage the maintenance of their route network, using Esri web application Survey123, Collector for ArcGIS. Project data was delivered in Esri geodatabase format for signs, pavement markings, roadway geometry, straight line diagrams (SDL), with corresponding design level Microstation basemaps following PennDOT's CAD standards. SDL documents that were manually drawn diagrams describing the location of signage based on mile marker, were transformed into dynamic Esri web maps allowing the DOT staff to access directions to sign locations, edit sign condition, and track maintenance real-time through mobile devices.

County Projects

County Stormwater System Program

Putnam County, NY

Professional GIS/GPS services to satisfy the Federal National Pollutant Discharge Elimination System (NPDES) and the NYSDEC State Pollutant Discharge Elimination System (SPDES) general permit. Ms. Zitzman managed her team of professionals that were tasked with GPS field collection of County-owned outfalls; recording suspected stormwater illicit connections; photographing structures that required maintenance; and inventorying characteristics of the outfalls and their discharge point.

The project deliverable will assist the County in reporting the status of illicit connection mitigation efforts; tracking the costs of potential improvements at the outfalls; reducing stormwater pollutant runoff; tracking outfall Operations and Maintenance (O&M) procedures; and managing outfall O&M historic records. By having this information mapped, Putnam County is now able to not only satisfy the mapping requirements of the permit, but will also be able to identify, track, and manage the process of correcting illicit connections that take place each year. The data mapped follows the standard NY County GIS stormwater data model and allows the County to efficiently manage and maintain its stormwater systems.

Municipal EGIS Management Program

eGIS Asset Management Program

Tenafly Borough, Bergen County, NJ

Implemented an Esri ArcServer COTS Asset Management program for the Tenafly Public Works department, which we now also host and maintain. Work Orders are handled using mobile GIS applications using IOS digital pad hardware. Staff can view work order assignments, complete the task, and closeout the work request paperless in a connected and disconnected internet environment.



Richard Maloney, PE

Senior Principal | Regional Discipline Leader
Bridges & Structures

Education

M.S. Civil/Structural Engineering,
University of Notre Dame

B.S. Civil Engineering, Villanova
University

Professional Registrations

Professional Engineer (PE): New
Jersey; New York; Connecticut;
Maryland; Virginia; North
Carolina; South Carolina; Georgia;
Florida; Pennsylvania; Ohio;
Indiana; Missouri; Colorado;
Texas; Nevada; Maine

Building Inspector for Code
Compliance No. 7618HHS, New
Jersey

Professional Certifications

Safety Assessment Professional
(SAP), American Institute of
Architects (AIA) and the National
Association of Professional
Engineers (NSPE)

Affiliations & Memberships

National Council of Examiners for
Engineering & Surveying

American Society of Civil
Engineers

National Society of Professional
Engineers

International Code Council

Mr. Maloney is the Discipline Leader for Colliers Engineering & Design's Structural Division and has over 26 years of diverse experience in building, structural, and civil engineering ranging from waterfront to infrastructure to bridges and buildings. Mr. Maloney provides project management and structural engineering services to a wide variety of clients that include local, state, and federal governmental agencies; marina and harbor port owners; developers; waterfront industries and utility companies. His responsibilities include client relations, multi-discipline project management, and supervision of the preparation of designs and specifications for specialized projects.

Key Projects

Student Success Center at Rowan College

Mount Laurel Township, Burlington County, NJ

Principal in charge of structural design services for the complete design of the new Knowledge Commons, Student Success & Student Union Building on the Rowan College at Mount Laurel campus. The building is a two-story, 75,000 sq. ft. structure that will house a student library, bookstore, cafeteria, and offices. The building has glass curtain walls around most of the facades and a 15'-0" long cantilevered second floor at the northeast building wing. Responsibilities included structural design of the building's steel superstructure and concrete foundation.

Toms River High School South Grandstand Replacement

Toms River Township, Ocean County, NJ

Designed a modern 2,100-seat, ADA-compliant raised grandstand to replace the existing smaller, dilapidated grandstand at Toms River High School South, complete with a larger, updated press box. The new design also redirected the flow of attendees to pass under the structure instead of in front of it, as was previously done. With the redesigned layout, two new restroom buildings were installed under the bleachers, and the concession building was restored to meet current codes. In addition, a new concourse area was created for overflow near the concession building, and additional site improvements such as walkways, fences, gates, and retaining walls, were provided.

Toms River Regional School District

Toms River Township, Ocean County, NJ

Principal in Charge for the design of secure vestibules; air condition improvements to several schools within the Toms River School District; Design of reinforced masonry elevator shaft; Design of window lintel for the replacement of louvers along the exterior of building.

Neptune Board of Education Facilities Improvements

Neptune Township, Monmouth County, NJ

Project Manager for various improvements, renovations, and additions projects for the Neptune Township Board of Education's facilities. These projects included a building expansion at the High School Performing Arts Center to accommodate restrooms and additional public space; engineering support as part of interior building renovations including retrofitted moving partitions and file storage in the Board of Education's offices; and a four-story elevator addition to the Board's existing office building. Services included structural, geotechnical, and civil engineering design and contract document preparation.

Bergen County Technical & Special Schools Facilities Improvements

Borough of Paramus, Bergen County, NJ

Project Manager in charge of providing professional structural engineering services for various repairs, improvements, renovations, and additions projects for Bergen County's Technical and Special Schools' facilities. Services included structural inspections, litigation support, ADA compliance inspections, building modifications, room conversions, structural modifications to existing facilities, bearing wall removals and supplemental designs, roof top unit structural evaluations, barrier-free improvements, and additions.

School District Structural Inspections and Feasibility Studies

Structural Engineer responsible for the structural inspections and feasibility studies for many school districts including Jersey City, Barnegat, New Jersey Department of Human Services, and Long Branch.

Barnegat Public Schools

Barnegat Township, Ocean County, NJ

Structural Engineer responsible for engineering and construction administration for exterior upgrades and roof replacement at Russell Brackman School.

Orange School District Roof Improvements

City of Orange, Essex County, NJ

Project Manager for the design and construction management services for roof implementation at five schools within the Orange School District through the New Jersey Schools Construction Corporation. Also responsible for construction of life and safety improvements within the school district.

Jersey City Public Schools Building Upgrades

City of Jersey City, Hudson County, NJ

Structural Engineer responsible for the engineering and construction administration for exterior upgrades and roof replacements at various public school buildings.

Hudson County Vocational Schools Structural Repairs

Township of North Bergen and City of Jersey City, Hudson County, NJ

Structural Engineer responsible for the structural analysis and repair designs for repair and replacement projects at both locations.



Will Doll, PE

Principal Associate | Geographic Discipline Leader | Structural

Education

B.S. Architectural Engineering,
University of Colorado at
Boulder

Professional Registrations

Professional Engineer
(PE) New Jersey, New
York, Maryland, Delaware,
Pennsylvania

Computer Skills

Revit

AutoCAD

Staad

Encercalc

ADOSS

Mr. Doll is a Project Manager with over 21 years of experience in structural building design for new and existing structures. His expertise encompasses the development of structural systems based on the analysis of architectural drawings and site surveys. Mr. Doll also performs overall project management and preparation of structural engineering construction documents, including drawings and specifications from project conception through final design documents. His building design experience also includes foundation, super-structure, and lateral analysis.

Mr. Doll's responsibilities include client relations and the coordination of architects, geotechnical engineers, M/E/P engineers, and contractors for all aspects of projects, from pre-design to construction administration. His experience also includes the review of and collaboration with architects for contractor's bids, cost estimates, and change orders; compilation of proposals for new projects based on engineering feasibility and cost effectiveness; and the formulation of internal budgets and schedules for current and proposed projects.

Key Projects

Hartshorne Woods Park Rocky Point Area Restroom

Highlands Borough, Monmouth County, NJ

Project Manager responsible for the structural design for the new restroom building in the Rocky Point Area of the Hartshorne Woods Park. The restroom was a part of the overall upgrade of the park and park grounds. The design of the one-story, 1,000 sq. ft. structure was coordinated with KGD Architects. The structural design of the restroom consisted of a steel framed roof with wood infill rafters, and the exterior walls consisted of reinforced CMU cantilevered retaining walls supporting the clerestory windows around the perimeter of the building. The clerestory windows give the illusion that the roof is floating about the walls. The foundation for the building consists of reinforced concrete spread footings. In addition to the structural design, we also provided a geotechnical investigation and report of the soil below the building and recommendations for the building's foundation system.

Trinitas Hospital

City of Elizabeth, Essex County, NJ

Provided structural engineering for the repair of a portion of the first floor of the hospital. Water infiltration through the first floor from the exterior was causing spalling in the first floor slab. Our office provided the design to repair the concrete spalling and developed a waterproofing system to mitigate the water infiltration from the exterior.

Neptune Middle School Improvements

Township of Neptune, Monmouth County, NJ

Project Manager responsible for engineering services for the complete design of two new additions to the existing Neptune Middle School and the renovation of the two existing gymnasiums. The first addition is a one-story 3,400 sq. ft. building to be used for offices, and the second addition is a two-story 2,000 sq. ft. building used for offices and restrooms. The renovation of the gyms consisted of the removal of large lengths of existing masonry walls to create additional seating space. Services included structural design of the building's steel superstructure and deep foundation, site design of the building's utilities, and a geotechnical investigation of the existing soils.

NJ State Police Modular Laboratory/Office Building

Little Falls Township, Passaic County, NJ

Provided structural engineering services for the site design and foundation design of the new one-story modular laboratory/office building for use by the New Jersey State Police. Services included design of the concrete foundation to support the new modular building and design of the entrance ramps and stairs. Work was coordinated closely with the owner (DPMC), architect, and M/E/P engineers.

Monmouth County Parks Creative Arts Center Building Addition

Lincroft, Monmouth County, NJ

Provided structural engineering services for the design and construction of a new wing addition to the Creative Arts Center in Lincroft. The building addition included a new one-story building wing addition to the existing building, approximately 5,500 sq. ft. in size with no basement. The new wing will be used as an art studio and gallery.

NJ Motor Vehicle Commission Parking Garage Rehabilitation

City of Trenton, Mercer County, NJ

Provided structural engineering services to implement repair recommendations stemming from a Structural Condition Survey of the parking garage of the State Motor Vehicle Services Administration Building in Trenton. The seven-level parking garage, completed in 1992, was in need of several priority improvements, including concrete repairs at joints; sealing of topside cracks; repair of concrete spalls; replacement of sealant joints, deck expansion joints, and perimeter expansion joints; cleaning, priming, and painting of all exposed steel and corroded drain out spouts; and restriping of all parking and graphics. In addition to reviewing all available design drawings and specifications of the parking garage, duties included re-inspecting the entire facility to develop as-builts and document the exact location and extent of repair items. Once a clear understanding of the full extent of the repair work was developed, work was coordinated with the repair product manufacturers to develop the repair details. Because most of the repairs involved specialty products such as specialty repair concrete, pre-fabricated expansion joints, joint sealants, and special coatings, it was imperative that the proper application and specification for the repairs be vetted out. Finally, a detailed construction sequencing and work plan was developed to ensure a successful project.

Education

B.A. Business Administration,
Middlesex County College/
Canterbury University

Professional Registrations

Certified Energy Procurement
Professional (CEP)

Certified Energy Manager
(CEM)

Certified Demand Side
Manager (CDSM)

Certified Sustainable
Development Professional
(CSDP)

Affiliations & Memberships

Member of the Association
of Energy Engineers, NJ
Chapter president, 2008-
2010; Vice President, 2006-
2008; Government Liaison,
2006-2010;

Member New Jersey Advanced
Town Center Distributed
Energy Generation MicroGrid
Working Group

Thomas Brys, CEP, CEM, CDSM, CSDP

Energy Specialist

Mr. Brys has successfully served hundreds of clients ranging from municipal energy aggregations and public-sector cooperatives to large "Fortune 100" Pharmaceutical companies with over 20 years of diverse experience in the identification, development and implementation of energy management technologies including Photovoltaic (PV) electric generating systems. He has managed and authored multiple Sustainable Energy Master Plans and has provided technical consulting for over 400 Mega-watts of photovoltaic projects in New Jersey and Pennsylvania. Mr. Brys serves as past president of the New Jersey Association of Energy Engineer and currently serves on the Board of Directors.

Mr. Brys has experience with advanced PV system applications and emerging technologies as part of award-winning projects including:

- 2006 New Jersey Clean Energy Renewable Project of the Year
- 1st NJ-permitted project in a retention basin
- 1st 1,000 VDC System interconnection and;
- 2015 EPA Region 2 Excellence in Reuse Award

Key Projects

2006 New Jersey Clean Energy Renewable Project of the Year

Monmouth University - 454kW Roof-Mounted PV System

City of Long Branch, Monmouth County, NJ

Project Manager for the identification and development of an economically viable investment in PV on behalf of the University's Board of Directors. The project included an economic feasibility study, preparation of turnkey design specifications, construction oversight and post construction performance monitoring. At the start of construction, the project was noted as the largest roof-mounted PV system east of the Mississippi River.

1st NJ-permitted project in a retention basin

Peddie School - 750 kW Campus System

West Windsor Township, Mercer County, NJ

Project Manager reporting directly to the CFO for the preparation of turnkey design specifications, construction oversight and post construction performance monitoring. This project included a private school campus project with PV systems in two different municipalities.

1st 1,000 VDC System interconnection

Pocono Raceway

Long Pond, Monroe County, PA

Owner's Representative for the identification and development of an economically viable investment in PV on behalf of the Raceway's President and Chairman. The project included an economic feasibility study, preparation of turnkey design specifications, construction oversight, post construction performance monitoring and management of the Raceway's (Solar Renewable Energy Certificates) SRECS. The project is constructed of materials that were sourced sustainably and only from within North America. The system was uniquely constructed using wood timber framing and a floating ground.

2015 EPA Region 2 Excellence in Reuse Award

Brick Township Landfill Solar Redevelopment

Brick Township, Monmouth County, NJ

Project Manager for the identification and development of an economically beneficial solar redevelopment project including a Public Private Partnership (P3) financing strategy on behalf of the Township's Council. The project included an economic feasibility study, preparation of turnkey design specifications, construction oversight and post construction performance monitoring. The project includes a fully floating, non-penetrating system on a liner-capped landfill with 3 to 1 slopes.

PV Studies (Analyze system capabilities, quantify site challenges and determine system target performance)

Various Locations

PV Install CA/PM Experience (Owner's Representative, 3rd Party reviewer, Peer evaluator, Construction Observations and Inspections)

Various Locations

Post Construction Monitoring Experience (monthly photovoltaic system inspections, monthly and quarterly performance reports, ongoing consulting for the monitoring and potential expansion and/or optimization of the PV system.)

Various Locations



Kelsey A. Howard

Principal Associate | Grant Writing Manager | Grants & Funding

Education

B.A. Political Science,
University of Vermont

Grant Writing USA Workshop

Grant Management USA
Workshops

Professional Registrations

Grant Professionals
Association

Ms. Howard manages the preparation of grant and loan applications and the administration of awards for Colliers Engineering & Design. She communicates with funding program representatives on behalf of our clients, reviews program guidelines, and ensures that complete, competitive applications are submitted.

Ms. Howard has helped secure over \$139 million for clients' projects, working with over 70 towns, counties, utility authorities and others. In 2021 alone, over \$9.9 million was awarded for projects like water main relining and lead line replacement, public library renovations and additions, roadway reconstruction, bicycle sharrow treatments, streetscape corridor improvements, and park and recreation projects like skateparks, playgrounds, and pickleball courts. Some other projects previously funded include sanitary sewer improvements, ballfields, ADA facility upgrades, traffic signal optimization, and historic restoration and rehabilitation to carousels, monuments, train stations, and coast guard stations.

Key Projects

NJ Library Construction Bond Act Grant

- Frenchtown Public Library Repair (FTT0092)
 - o Borough of Frenchtown, Hunterdon County, NJ
 - o Awarded \$70,000.00 in January 2022. Provided collaborative grant writing support for highly competitive program.
- Union City Public Library Improvements (UCC056F)
 - o City of Union City, Hudson County, NJ
 - o Awarded \$3,236,586.50 in January 2022 for major improvements and restoration to this historically significant city library.

Landis Avenue Streetscape Improvements (SIC079)

City of Sea Isle City, Cape May County, NJ

NJEDA program funded by HUD CDBG-DR. Awarded \$1,000,000.00 for a multi-phase streetscape project in the main business district. Provided grant writing and management services. Project closed out in 2017.

La Trenta Field Complex Improvements (MVB511, MVB559)

Borough of Montvale, Bergen County, NJ

Secured multiple rounds of Bergen County Municipal Park Improvement Program funds for clay infield removal (\$113,538.00 in 2017), synthetic turf replacement (\$65,000.00 in 2018), softball infield, and parking lot and ADA accessibility improvements (\$96,309.00 in 2020).

Public Facilities Reconstruction

Township of Cranford, Union County, NJ

Awarded \$500,000.00 through the NJDCA Small Cities CDBG-DR (Irene) program for municipal parking lot and detention basin reconstruction. Managed grant in compliance with procurement regulations, federal and state labor standards, fair housing and citizen participation rules, and general grant terms for project design and construction administration and observation. Project closed out in 2017.

Improvements to Curtis Park (MSQ081, MSQ081A, MSQ0100)

Borough of Manasquan, Monmouth County, NJ

Secured and leveraged grants through multiple programs and rounds for this barrier-free playground project. Awarded \$55,000.00 through the NJDCA Local Recreation Improvement grant in January 2022. Monmouth County Municipal Open Space Grant program awarded \$150,000.00 in 2021 and \$90,000.00 in 2020.

Mallard Park Improvements (MSQ007, MSQ051)

Borough of Manasquan, Monmouth County, NJ

Provided grant writing and management services. Secured multiple rounds of Monmouth County Municipal Open Space grants - \$175,000.00 through 2014 round for ballfields and \$100,000.00 in 2017 round for site improvements and amenities. Project closed out in 2021.

Municipal Complex Hockey Rink Diversion (MCT060)

Township of Manchester, Ocean County, NJ

Major diversion application to divert municipally-owned park property from the Recreation and Open Space Inventory (ROSI). Conducted pre-application meeting, scoping hearing and pre-application package.

Water Main Relining and Valve Replacement (BLT269, BLT275, BLT282, BLT0284)

Township of Belleville, Essex County, NJ

Secured multiple rounds of Essex County CDBG funds - \$334,760.00 awarded October 2019, \$540,257.00 awarded May 2020, \$335,000.00 awarded October 2021. Requested additional \$854,175.00 in December 2021.

Sanitary Sewer Lining/Rehab (14000720A)

Jersey City Municipal Utilities Authority, Hudson County, NJ

Secured \$951,916.84 in EPA Clean Water State Revolving Fund (CWSRF) low-interest financing through the NJDEP and NJWB. Project closed out in 2021.

Ocean Avenue Water Main Replacement (POB013)

Borough of Point Pleasant Beach, Ocean County, NJ

Secured \$2,501,750 in EPA Drinking Water State Revolving Fund (CWSRS) low-interest and principal forgiveness financing through the NJDEP and NJWB. Project in construction. Anticipated close out 2022.

Traffic Signal Optimization (UCC003F)

City of Union City and Township of Weehawken, Hudson County, NJ

Secured \$1,000,000.00 in December 2020 through the NJTPA Congestion Mitigation and Air Quality (CMAQ) program.

Education

M.S. Civil and Environmental Engineering, Rowan University

B.S. Civil and Environmental Engineering, Rowan University

Professional Registrations

Professional Engineer (PE)
New Jersey, Pennsylvania,
Georgia, North Carolina,
Florida, Texas, Washington

Professional Certifications

Certified Floodplain Manager

Post-Disaster Safety
Assessment Program
Evaluator, California
Governor's Office of
Emergency Services

Firefighter/EMT/AED Certified

Affiliations & Memberships

National Society of
Professional Engineers,
Member

New Jersey Association for
Floodplain Management,
Member

New Jersey Section American
Water Resources Association,
Member

Association of State
Floodplain Managers

Association of State Dam
Safety Officials

Stephen Gomba, PE, CFM

Senior Associate | Geographic Discipline Leader | Water

Mr. Gomba has over 20 years of experience as a design engineer performing project design, plan and report preparation, stormwater management design, hydrologic and hydraulics analyses for bridges and dams, and environmental permitting. He has worked on many governmental and private projects, and his responsibilities have included design of roadway improvement projects, public educational facilities, athletic field facilities, private subdivisions, site development plans, dam rehabilitations, dam safety inspections, dam breach analyses, and development of emergency action plans. Mr. Gomba is also experienced in DEP permit applications, soil erosion and sediment control plans, stormwater management design and traffic control plans, and grant application preparation for municipal aid grants. Additionally, he has managed projects during construction, with responsibility for shop drawing review, managing inspection, pay estimates and change orders.

Key Projects

Bill Wright Road Improvements

City of Jefferson, Jackson County, GA

Managed the hydrology and hydraulics tasks related to the relocation of approximately 2,200 feet of Bill Wright Road. The roadway realignment was related to the proposed construction of 2,543,300 square feet of industrial warehouse space. The realignment involved a new crossing of the Opposum Creek and required a hydrologic analysis with HEC-HMS and hydraulic analysis with HEC-RAS for both existing and proposed conditions to demonstrate a no-rise/no-impact condition for off-site properties.

Oldham Road Improvements

Wayne Township, Passaic County, NJ

Managed the stormwater design tasks for the improvements to Oldham Road located in Wayne Township, Passaic County. Managed the hydrologic analysis using TR-55 methodology with HydroCAD to calculate the 2-, 10-, 100-year storm event peak flows for the existing and proposed corridor. Stormwater conveyance systems were designed, which included detention facilities for peak flow reduction.

Maple Lake Dam Removal

Borough of Kinnelon, Morris County, NJ

Performed hydrologic and hydraulic analysis to design the breach and removal of the Maple Lake Dam. Prepared a Breach Analysis Report and dam removal plans to NJDEP Dam Safety for permitting.

Somerset County Bridges K-1104 & K-1105, Mountain Avenue

Somerset County, NJ

Managed the hydrology and hydraulics tasks for the Replacement of Bridges K-1104 & K-1105 located on Mountain Avenue in Somerset County. Managed the hydrologic analysis using TR-55 methodology with HydroCAD to calculate various storm event flows including the NJ Flood Hazard Area Design Flood. Incorporated hydrologic findings in a hydraulic analysis of the existing bridge versus proposed bridge using HEC-RAS to calculate and minimize the change in water surface elevations. Responsible for obtaining NJDEP Division of Land Use Regulations Program Flood Hazard Area Individual Permits.

Lake Weamaconk Dam

Englishtown Borough, Monmouth County, NJ

Managed the hydrology and hydraulics tasks for hazard classification and potential spillway improvements to the Lake Weamaconk Dam located in Englishtown Borough, Monmouth County. Managed the hydrologic analysis using HEC-HMS to calculate various storm event flows. Incorporated hydrologic findings in a hydraulic analysis of the downstream waterway using HEC-RAS to calculate the water surface elevations for a range of storm events in both dam breach and non-breach scenarios.

Old York Business Park

Bordentown City, Burlington County, NJ

Provided site design and civil engineering services for a 665,000 sq. ft. warehouse and distribution facility, consisting of two buildings with associated loading, parking, access driveways, and three detention basins. The project is located on 60 acres, bounded by CR 660 and NJ I-295. The project included a roadway crossing over a stream, which required a hydrologic and hydraulic study to size the culvert. Responsible for preparation of grading, drainage and utility plans; drainage and utility plans; soil erosion and sediment control; stormwater management; and responsible for obtaining regulatory permits (NJDEP Division of Land Use Regulations Program Flood Hazard Area and Fresh Water Wetlands permits, and Burlington County Soil Conservation Service permit).

Replacement of Ocean County's Thompson Bridge

Jackson Township, Ocean County, NJ

Managed the hydrologic analysis using TR-55 methodology, PondPack and HEC-1 to calculate curve number and time of concentrations which were used to then calculate the NJ Flood Hazard Area Design Flood peak flow rate. Incorporated hydrologic findings in a hydraulic analysis of the existing bridge versus proposed bridge using HEC-RAS to calculate and minimize the change in water surface elevations. Responsible for obtaining NJDEP Division of Land Use Regulations Program Flood Hazard Area and Fresh Water Wetlands permits, and Ocean County Soil Conservation Service permit.

Ancora Lake Dam Hydrologic & Hydraulic Analysis 24 NJDOT Dams Formal Inspection

Camden County, NJ

Performed hydrologic analysis using TR-55 methodology in Hydrocad to calculate curve number and time of concentrations which were used to then calculate the Probable Maximum Precipitation peak flow rate. Incorporated hydrologic findings in a dam overtopping and dam breach analysis using HEC-RAS to calculate water surface elevations necessary to create inundation maps in AutoCAD. Prepared a comprehensive Hydrologic and Hydraulic Analysis and Hazard Classification Report to NJDEP Dam Safety for review.



Christopher R. Gammons, LLA, RLA, ASLA

Principal Associate | Discipline Leader | Landscape Architecture

Education

BS Landscape Architecture,
Rutgers University, 2002

Professional Registrations

Licensed Landscape Architect
(LLA) New Jersey

Registered Landscape
Architect (RLA) New York,
Texas, Arizona

Affiliations & Memberships

American Society of
Landscape Architects, ASLA

Council of Landscape
Architectural Registration
Boards, CLARB

Professional Certifications

Certified Wetland Delineator

Mr. Gammons brings with him more than 20 years of landscape architecture, site engineering, construction implementation and management experience. Upon his completion of the Landscape Architecture and Environmental Studies Program at Rutgers University, Christopher pursued the integration of bold landscape design within a host of municipal and private sector engineering projects. Working closely with the engineers and related fields, he has consistently demonstrated how to effectively collaborate where site and landscape design problem solving creates new project type paradigms that ultimately lead to faster and more enthusiastic public approvals. Understanding the tenets of site engineering principles and their potential relationships to ecological functions enables Mr. Gammons to offer alternative landscape-based solutions in addressing both common and complex site problems. Each of his projects within the New York City Tri-State area and internationally demonstrates how his clear landscape design vision is intrinsically rooted in solving fundamental engineering problems for a broad range of project types that extend from single family residential to large scale commercial, institutional, industrial, medical office, regional master planning and environmental remedial and restoration projects.

Key Projects

The Park Amenity Clubhouse and Pool Area

Borough of Roselle, Union County, NJ | Project Manager and Landscape Architect

Project manager and landscape architect responsible for the design, preparation, and coordination of the landscape master plan and construction drawing submission for an Amenity Clubhouse and Pool Area for a 400 Unit high end apartment rental complex known as The Parks Apartments to the Borough of Roselle. Negotiated construction contracts and executed installation as part of a full-service design/build company. Provided oversight to construction crews for installation of pool area hardscapes, landscaping, drainage, and lighting improvements. Procured all materials and equipment required for construction of project. Completed project on time and under budget per construction schedule.

Lincoln Harbor Waterfront Walkway Improvements

Township of Weehawken, Hudson County, NJ / Project Manager and Landscape Architect

Project manager and landscape architect responsible for preparation

and coordination of drawing submission to the City of Weehawken and permitting packages for the NJDEP. Collaborated with the New Jersey Department of Protection and Waterfront Development to provide design services including shoreline stabilization, soil enhancements, bike path connections, structurally cantilevered walkways, waterfront plantings and community spaces. Worked closely with environmental agencies to ensure compliance with waterfront planting and shoreline protection strategies. Provided lead design intelligence and research for the preparation of the landscape and lighting design construction set. Introduced material and furnishing package accompanied with specification guidelines.

The Brooklyn Tower

Borough of Brooklyn, NY / Lead Project Manager

Lead project manager and designer for concept, design drawings and construction documentation of exterior landscape scope elements for 1066- foot-tall residential building in Downtown Brooklyn designed by SHoP Architects as Brooklyn's first Supertall. Collaborated with structural engineers to redesign roof systems and maximize opportunity to support pool and landscape infrastructure with loading requirements for a historic and landmarked structure. Participated in rigorous value engineering efforts to support client desire to execute preferred design within budget constraints. Lead multi-consultant team in coordination of roof terrace and wind floor improvements. Provided concept and design direction for 630 tall wind floor conversion into luxury amenity spaces which would later become known as the tallest playground, dog run and basketball court amenity in the world.

Capitol Plaza at Chelsea

New York, NY / Lead Project Manager

Lead Project Manager as the prime consultant for all exterior ground level improvements for the redesign and construction of a DCP/POPS project for The Chelsea Capital Building owned by JP Morgan. Assembled and coordinated Department of City Planning technical review package and Construction Documentation Submission to the Department of Buildings. Coordinated horticultural, soil and irrigation consultants to provide necessary support during summer planting for a diverse mix of native materials planted in a lightweight planting media mix. Worked with structural engineers to design custom steel privacy walls and green screens. Reviewed and documented submittal, shop drawing and rfi requests as needed to support the project through completion.

Great Jones Alley

New York, NY / Lead Project Manager

Lead Project Manager for exterior ground level and rooftop improvements of mid-19th Century industrial building with a residential retrofit designed by BSK Architects, including oversight in design and construction of one of the largest exterior vertical garden walls in NYC. Assisted in coordination and documentation of Value Engineering exercises for the roof membrane improvements and leak detection systems. Provided construction oversight for vertical wall structure and custom Corten privacy fencing. Coordinated horticultural, soil and irrigation consultants to provide necessary support for a diverse mix of native planting in a lightweight planting media mix and a custom vertical green wall system. Reviewed and documented submittal, shop drawing, and rfi requests as needed to support the project through completion.



Education

B.S. Civil Engineering,
Northern Alberta Institution
of Technology

Steven Sihota

Senior Associate | Senior Project Manager | Governmental

Mr. Sihota is a Senior Project Manager with over 18 years of experience designing multi-discipline projects that include site design, plan preparation, specifications, permit applications, project funding applications, and construction inspection for a wide variety of private and public projects. His experience with municipal consulting includes drainage system design in accordance with current NJDEP stormwater regulations; design of roadway and streetscape projects; site improvement projects; athletic fields; athletic courts; parks, and construction inspection.

Key Projects

Edgar Park Turf Field Improvements 2023/2024

Borough of Metuchen, Middlesex County, NJ

Senior Project manager responsible for managing the design and construction of a new multipurpose turf field for Soccer, softball, baseball, and associated amenities. Responsibilities included coordinating with various disciplines, vendors, contractors, inspectors, permitting with local and state agencies, managing design staff for preparing construction plans, specifications, overseeing the hydrological modeling design required for the site.

Pearl Street & New Street Streetscape Project 2023

Borough of Metuchen, Middlesex County, NJ

Senior Project Manager responsible for managing design staff and overseeing the production of engineering design plans and specifications for the streetscape project. Preparing permits, coordinating with various government agencies. Project funded by NJDOT Local Aid.

East Dover Volunteer Fire Facility 2022/2023

Township of Toms River, Ocean County, NJ

Senior Project Manager responsible for managing the design staff and overseeing the production of engineering construction plans and specifications for the construction of a new fire facility. Prepared permits and coordinated with various government agencies. Project funded by FEMA.

Middlesex Road Program 2021, 2022 & 2023

Borough of Middlesex, Middlesex County, NJ

Senior Project Manager responsible for managing production and construction for Middlesex's annual road program, which is funded by NJDOT Local Aid.

Rabkin Park Turf Field Improvements 2022/2023

Union Township, Union County, NJ

Senior Project manager responsible for managing the design and construction of a new multipurpose turf field for football, soccer, baseball, and associated amenities. Responsibilities included coordinating with various disciplines, vendors, contractors, inspectors, permitting with local and state agencies, managing design staff for preparing construction plans, specifications, overseeing the hydrological modeling design required for the site.

Lakewood Township Road Program 2022

Township of Lakewood, Ocean County, NJ

Senior Project Manager responsible for managing the design staff and overseeing the production of engineering construction plans and specifications for Lakewood's annual road program. Responsible for Construction Administration and Inspection services during construction. Project was funded by NJDOT Local Aid.

Middlesex County Parks Athletic Court Improvements 2022

Woodbridge Township, Middlesex County, NJ

Senior Project manager responsible for managing the design and construction for resurfacing and constructing new basketball, tennis, and pickleball courts at William Warren, Fords and Merrill Park. Responsibilities included coordinating with various disciplines, vendors, contractors, inspectors, permitting with local and state agencies, managing design staff for preparing construction plans, specifications, overseeing the hydrological modeling design required for the sites.

Route 28 Streetscape Project 2021

Borough of Middlesex, Middlesex County, NJ

Project Manager responsible for managing design staff and overseeing the production of engineering design plans and specifications for the streetscape project. Preparing NJDOT jurisdictional agreement and associated plans, Highway Occupancy permits, coordinating with various agencies. Project funded by NJDOT Local Aid.

Washington Avenue (Route 7) Streetscape 2022 & 2023

Belleville Township, Essex County, NJ

Senior Project Manager responsible for managing design staff and overseeing the production of engineering design plans and specifications for the streetscape project. Prepared Jurisdictional agreement and associated plans, Prepared Highway Occupancy permits, coordinated with various agencies. Project is funded by NJEDA, Neighborhood Community Revitalization Program Grant.

Belleville Road Program 2018, 2019, 2020, 2021, 2022 & 2023

Belleville Township, Essex County, NJ

Senior Project Manager responsible for managing the design staff and overseeing the production of engineering design plans and specifications for Belleville's annual road program, which was funded by NJDOT Local Aid and CDBG grants.



Derek Jordan, PE

Principal Associate | Senior Project Manager | Governmental

Education

B.S. Civil Engineering with
Business Minor, Ohio
Northern University

Professional Registrations

Professional Engineer (PE)
New Jersey

Professional Affiliations

American Society of Civil
Engineers

Software Skills

AGTEK
HCSS
Microsoft Project
Primavera
Newforma
HydroCAD

Mr. Jordan has 15 years of experience providing design services and leading engineering teams for large-scale projects for both public and private clients. He is well-versed in the process involved with obtaining New Jersey permits, including NJDEP, NJDOT, CAFRA, TWA, PB, and ZBA, and is also skilled at stormwater design, site layout, and utility design.

During project construction, Mr. Jordan's responsibilities include review of specifications, inspections, project scheduling, and estimating. He is experienced at presenting projects to municipal boards, providing expert testimony before both Planning Boards and Boards of Adjustment, and providing expert testimony before local and state politicians. His previous experience also includes serving as an estimator and project engineer for public utility construction projects, water mains, sewer mains, and storm sewer projects.

Key Projects

Toms River Regional School District Referendum Implementation

Township of Toms River, Ocean County, NJ

Provided site/civil design for the implementation of \$147 million in improvements to 24 buildings owned and operated by the Toms River Regional School District. Improvements include new security system in all schools, air conditions for every classroom, electrical upgrades, parking lot repaving, new turf fields, playground improvements, and resurfacing of the track and tennis courts. Provided bid assistance for the various projects, and coordinated access and phasing of school work to minimize impact to school operations. Provided construction management and field inspections for the various projects, managed the field budgets and reviewed change order requests from the contractors.

Toms River School District Energy Savings Plan

Toms River Township, Ocean County, NJ

Review of energy uses at all 24 Toms River Schools facilities as part of the Energy Savings Improvement Program. Tasks included determining Energy Conservation Measures for each facility, reviewing process of implementation of each ECM, and obtaining third-party approval of ESP, as well as NJ BPU approval of the plan. Prepared financing documents for TRS outlining costs of implementing ECMs and the projected energy costs savings of same. Implementation of the ESP, inclusive of coordinate and preparation of design documents, bidding and construction oversight. ESP projects include lighting replacement, installation of CHP units, replacement of chiller and boiler units, district wide control system installation and retro commissioning report.

Toms River School Solar Feasibility Study

Toms River Township, Ocean County, NJ

Reviewed 10 sites owned by the Toms River School district for potential to install solar panels to energy generation. Reviewed available land at each site to determine amount of solar generated energy that could be produced. Reviewed the best facilities to install solar panels based on energy generation and cost effectiveness. Prepared report for Toms River Schools outlining our recommendations for each site.

Signature Flight Support New Hangar, Signature East Location, Teterboro Airport

Borough of Teterboro, Bergen County, NJ

This site is located on the east site of Teterboro Airport on currently undeveloped plot of land consisting of approximately 4.5 acres of wetlands. Design included a new hangar and office space, new ramp, and connection to the existing Signature Facilities. Stormwater management design included a regional flood analysis to determine the impact of over 4.5 acres of new impervious coverage to the surrounding communities and streams in the area. Required permits include Port Authority approval, FAA, ACOE, NJDEP Flood Hazard, and Wetlands Mitigation.

Legacy Plaza

City of Linden, Union County, NJ

Design of a 50-acre industrial development and 50 acres of retail development at the old GM Plant location. Design included approximately 900,000 sq. ft. of new industrial buildings and approximately 500,000 sq. ft. of retail and restaurant uses along Routes 1 & 9. Site/civil design included stormwater management design for both parcels, including analysis of local stormwater infrastructure to access its existing capacity. Project also included sanitary sewer design, NJDEP permitting for TWA, and water system design working along with NJAW to assess total demand of water routing options. This site also included FAA permitting due to its proximity to the Linden Airport across 1 & 9.

Sea Oaks Medical Campus

Little Egg Harbor Township, Ocean County, NJ

Design of a four-medical office building campus inclusive of stormwater management facilities and infiltration basin, sanitary sewer pump station and collection system, and connection to municipal force main. Project also included County roadway improvements, parking facilities, lighting, landscaping, and other site improvements. Permitting requirements included CAFRA permitting, SCD, County, and local Planning Board approval.

Signature Flight Support FBO Addition, Newark Liberty Airport

City of Newark, Essex County, NJ

Provided site/civil design for the construction of a new FBO for Signature Flight Support at Newark Liberty Airport. Design included new entrance way, client drop off area, airport ramp modifications, stormwater management facilities, utility connections, Port Authority permitting, and design in accordance with FAA guidelines.

Jet Aviation, Teterboro Airport

Borough of Teterboro, Bergen County, NJ

Provided site/civil design for mill and overlay paving of existing ramp and plane storage areas.

Key Projects

Toms River Regional School District Referendum Implementation

Township of Toms River, Ocean County, NJ

Principal-in-Charge of the implementation of \$147 million in improvements to 24 buildings owned and operated by the Toms River Regional School District. Improvements include new security system in all schools, air conditions for every classroom, electrical upgrades, parking lot repaving, new turf fields, playground improvements, and resurfacing of the track and tennis courts. Provided bid assistance for the various projects, and coordinated access and phasing of school work to minimize impact to school operations. Provided construction management and field inspections for the various projects, managed the field budgets and reviewed change order requests from the contractors.

Brielle Road Roadway Elevation Project

Borough of Manasquan, Monmouth County, NJ

Principal-in-Charge for the elevation of Brielle Road, which was previously too low and experienced significant, impassable flooding during monthly moon high tide events. Local residents, emergency vehicles, and other traffic could not access the area during these tidal events, thus creating an overall hazardous condition and a public safety concern. The newly elevated road provides a dry passage during high tide events, directly impacting the local population and allowing emergency response vehicles to travel the route and respond to emergencies. The project included roadway reconstruction, including the raising of the roadway with asphalt and dense graded aggregate, replacing concrete driveway aprons, curb and sidewalk, and installation of flood control devices.

Freewood Acres & Route 9 Sanitary Sewer Extension

Howell Township, Monmouth County, NJ

Principal-in-Charge of design services for the extension of sanitary sewer service in Howell from Route 9 between Casino Drive and West Farm Road, to the Freewood Acres area from Georgia Tavern Road to 1st Street. The majority of the properties in this project area were served by older, failing septic systems, which are a leading cause of groundwater contamination, and which negatively impact public health and the environment. This project will allow property owners to install lateral connections to the new sewer main. In addition to design services, the scope of work included conducting public meetings, sending letters, and speaking with property owners. The project is being funded by a loan through the New Jersey Department of Environmental Protection and the New Jersey Environmental Infrastructure Financing Program.

John J. Franklin Public Works Complex

Lakewood Township, Ocean County, NJ

Principal-in-Charge for the design, permitting, and construction inspection of a new public works facility. Responsibilities included oversight in the preparation of site plans, construction documents, and survey work to support applications for state and local approvals; assisting in a geotechnical investigation; and providing construction inspections and certification of improvements. Oversaw the preparation of the CAFRA application for the 35-acre site, which included 154,000 sq. ft. of office, workshop, and vehicle/equipment storage buildings, as well as approximately 2,400 LF of roadway.

Traders Cove Marina & Park

Brick Township, Ocean County, NJ

Principal-in-Charge for the design, permitting, and construction administration of converting a formerly privately owned marina into a municipal park and marina. Work included oversight on the upland portion of the project which included buildings, roadways, parking, boardwalks and walkways, water park, bulkheading, utilities, and full NJDEP and ACOE permitting. The in-water portion included new marina design, dredging and full permitting. The marina contains approximately 150 slips.

Hurricane Sandy Rapid Infrastructure Assessments

Brick Township, Ocean County, NJ

Developed a team and oversaw the operations of performing storm damage assessments for Brick Township (population approx. 80,000). The Township has oceanfront and bay front communities that were significantly damaged or destroyed during the storm and our team performed a full assessment of infrastructure, buildings and facilities, dwellings, shoreline facilities including beaches, parks bulkheads, and underwater assessments.

Brick Landfill Closure/Solar Field

Brick Township, Ocean County, NJ

Principal-in-Charge of closing a 60-acre superfund listed landfill. Scope included design, permitting, and construction administration and intense communication with the EPA during the entire process. The second phase of work included coordinating the development of a solar field over the capped landfill which is generating revenue for the municipality in excess of \$2 million.

Section 4

List of Institutions & Similar Experience



List of Institutions & Services Provided

Colliers Engineering & Design (CED) provides engineering and related services to multiple colleges, universities and school districts throughout our region. These services include:

Building Division

- Architecture
- Electrical Engineering
- Interior Design
- Mechanical
- Structural
- Planning

Civil/Site Division

- Civil/Site
- Landscape Architecture

Geo/Environmental Division

- Environmental
- Geotechnical
- Natural Resources

Governmental Services Division

- GIS
- Municipal
- Water/Wastewater
- Grants & Funding

Infrastructure Division

- Construction Engineering & Inspection
- Water
- Traffic Planning

Project/Program Management

- Project Management
- Commissioning & Energy

Survey/Geospatial Division

- Survey/Geospatial
- Land Services
- SUE Services

Below is a sampling of our clients, along with details regarding our service dates and types of services:

Ocean County College

James Calamia, Asst. VP Facilities

Office Phone: 732 255 0400 ext. 2066

Cell Phone: 848 224 3312

2018 – Present

Providing/provided services inclusive of Architectural and Engineering and Environmental Engineering. Currently working with the college on their Facilities Master Plan (\$325,000).

List of Institutions & Services Provided

Princeton University

Bradley Kaye, Project Manager

Cell Phone: 267 361 4427

2019 – Present

Providing/provided services inclusive of Stormwater Management, Geotechnical, MEP, Architectural Design, and Traffic/Transportation Engineering.

Currently providing Architectural and Engineering services for two (2) lab renovation projects. E-Quad J-Wing 310A Sengupta Lab Renovation \$139,700. E-Quad J-Wing 310B Silver Lab Renovation – \$128,300.

Brookdale Community College

Mike Naparlo, Director of Facilities

Office Phone: 732 224 2395

2022 – Present

Providing/provided Architectural and Engineering services.

Projects included:

- Culinary Building - Feasibility Study (\$47,100), Preliminary Design, Final Design, Construction Plans and Specs, Construction Administration, and Bidding (\$775,000) for the Culinary Building at the main campus. Preliminary Cost Estimate \$6.9 million. Design complete. Bidding soon.
- Flood Investigation and Remediation - Flooding was experienced in the Advanced Technology Center (ATC) and Main Academic South (MAS) during a down pour in August 2021. The existing storm sewer became overwhelmed at approximately six (6) locations around the two (2) buildings. Brookdale has requested recommendations to prevent this from happening again in the area between the two (2) buildings and on the southside of MAS. Colliers Engineering & Design's approach would be to develop an option to remediate the flooding, prepare cost estimate for the recommended option and develop bid documents composed of plans and specifications. Engineering fee \$34,750. Construction costs \$187,914. Project complete.

The following pages include lists of our higher education projects and some similar project profiles.

Experience

The College of New Jersey
Ewing, Mercer County, NJ**Campus Town, Ewing**

Site design and civil engineering, survey, ecological, geotechnical, and traffic services for a proposed Campus Town development at the College of New Jersey. The development consists of a mixed-use project containing apartment housing for 400 students and retail components of approximately 80,000 SF along with typical appurtenant site improvements.

West Library Renovations

Civil engineering services related to the relocation of site utilities for the renovation and addition of existing building and a new addition. Other services included the evaluation of high-pressure steam supply and return, chilled water supply and return, domestic water and fire service, storm sewer, sanitary sewer, natural gas and primary electrical services, and construction administration and inspection.

Pedestrian Crossing Review - Metzger Drive

Provided traffic engineering services for improvements to two unsignalized intersections along Metzger Drive, which were experiencing concerns for pedestrian visibility and driver attentiveness especially at night. There are pedestrian crossings along the entire stretch of Metzger Drive, which effectively forms a ring road around the Campus. Both intersections studied in this project experienced high pedestrian volumes as their crossings connect Loser Hall, parking lots, and points east to the newly constructed Campus Town to the west. In total, these two intersections contain five crosswalks. Our professionals performed field reconnaissance to gather data regarding existing signing and pavement markings for each crosswalk and to evaluate sight distance between crossings, along with the spacing of speed humps along Metzger Drive. We also documented color contrast between the standard pavement, intersection pavement, and brick crosswalk and analyzed the lighting at each crosswalk. Recommendations for improvements were compiled in a final report and a preliminary Engineer's Estimate was prepared.

Parking Evaluation

Provided professional traffic engineering services to evaluate current parking demands at the College. Our professionals conducted a parking survey to determine current parking demand, which included recording parking occupancy at 15-minute intervals. From this data, parking demand rates were calculated and analyzed. Our engineers used their analysis to create recommendations for the College regarding possible locations for new and relocated parking, the possibility of increased parking needs if the College expands, and projects for future needs with enrollment increases.

Electrical Duct Bank

Geotechnical engineering and surveying services associated with the construction of an underground electrical duct bank from Greene Lane on the College of New Jersey campus to a new substation near the existing Cogen Powerhouse. The duct bank will run through open fields and will cross the Shabakun Creek. Services included soil borings to characterize the subsurface conditions, survey to tie in the boring locations and ground surface elevations to the existing site topography,

provide full time technical observation of the work of the drilling contractor, perform laboratory testing on selected samples to verify field classifications and define soil index properties, and provide groundwater observations for the duct bank alignment.

New Parking Decks

Site design and civil engineering services for the demolition and the construction of three new parking decks at the College of New Jersey. One deck will consist of two levels with a minimum of 267 parking spaces, another will consist of three and one-half levels with a minimum of 320 parking spaces, and the third will consist of three levels with 678 parking spaces. Other services include landscape and lighting design, oil/water separator design, drainage design, new curb/sidewalk design, stormwater management plan, soil erosion and sediment control plans, regulatory permitting (DEP water extension, Mercer County Soil Conservation District, D&R Canal Commission, and Ewing-Lawrence Sewerage Authority), fire access design, entrance drive retaining walls design, and construction administration and inspection.

Capital Improvements Projects

Provided surveying services for the 1998 -1999 capital improvement projects for numerous facilities.

Realignment of Metzger Drive

Civil engineering services for the realignment of approximately 700 LF of Metzger Drive at the College of New Jersey. Other services included topographic survey, geotechnical soils analysis, construction, grading and utility plan, storm water management and drainage design, landscape restoration plan, soil erosion and sediment control plan, regulatory permitting (DEP presence/absence LOI, D& R canal commission, Ewing-Lawrence Sewerage Authority, and Ewing Water Authority), and construction inspection.

Rutgers University Camden Camden, Camden County, NJ

Student Housing @ 330 Cooper Street

The project is in the City of Camden's Downtown Redevelopment Plan's University Village District. Site design and civil engineering services were provided for the 12-story residential dormitory building with retail on the ground floor. The project also included construction of a 35-space parking lot, a service loading area, and pedestrian walkway improvements. Utility design included connections of electric, water, gas, storm sewer, and sanitary sewer with minimal disturbance to the adjacent NJ Transit River Line rail tracks that border the site.

Rutgers University New Brunswick, Middlesex County, NJ

Livingston Campus Student Center Addition and Dining Commons

Provided professional engineering, planning, and construction administration services for 20,000 SF addition to the Livingston Campus Student Center and the Dining Commons. Additionally, provided two new entry plazas, driveway and parking lot realignments, and a new stormwater management basin.

Welcome Center

Provided professional engineering, landscape architecture, and construction administration services for the new Rutgers Welcome Center on Busch Campus. Project consisted of a new approximately 10,500 SF building, an outdoor terrace, service drives, entry ramps, and handicap parking.

Busch Campus 2011 Housing Project

This new housing project consisted of a redevelopment of five acres on the Busch Campus. The project included three, three-story dormitory buildings providing 500 beds, a classroom, and meeting spaces. The project also included a separate central utility building, a service roadway, parking lot reconfigurations, and pedestrian walkways. The design required the relocation of onsite utilities including storm sewer, sanitary sewer, and fiber optic lines. A rain garden was designed to mitigate stormwater runoff.

Horst Farm Bridge Rehabilitation

Civil engineering, geotechnical engineering, surveying site planning, traffic and transportation and environmental services were provided for the rehabilitation of the existing walls and dam structures under the existing roadway on the University site.

Montclair State University **Montclair, Essex County, NJ**

Parking Garages and Amphitheater

Geotechnical investigation for a proposed construction which consisted of a total of four U-shaped five- to six-story buildings, about 150,000 SF on plan area each, a two-story building, and a pool. Other associated features included a detention basin and parking areas. Subsurface investigation included test borings, test pits, and seismic refraction work to map the rock surface. Shallow spread footings were evaluated and recommended for support of the structures. Recommendations for discussion of pertinent design and construction considerations including floor slab support, temporary dewatering, excavation bracing, rock excavation, parameters for earthwork, and compaction were also given. Construction quality control was also provided.

Day Care Center

Provided site design and civil engineering services for a new 25,000 SF freestanding building at the University that will serve as a day care center. Services included site plan design, stormwater management plan, sanitary sewer pump station design, regulatory permitting (NJDEP Treatment Works and potable water extension and local water and utility authorities) and construction administration and inspection services.

Rider University **Lawrenceville, Mercer County, NJ**

New Academic Building & Theater Addition

Provided site design and civil engineering services for a New Academic Building and a Theater Addition to the Bart Luedeke Student Center. The New Academic Building will be a 21,845 SF building, which will provide additional classroom and faculty office space for the University. The

project included reconfiguration and reconstruction of the faculty parking lot including a new underground stormwater management basin and rain garden. The project is seeking LEED Silver Certification. The Bart Luedeke Student Center Theater Addition consists of a 5,200 SF addition providing backstage improvements to the existing theater and access to a new loading area. Adjacent to the theater, access roadway improvements were designed to improve traffic circulation. As part of the roadway improvements, impervious area was removed from the riparian zone of the Little Shabakunk Creek, and a vegetative filter strip was designed to mitigate stormwater runoff from the project site.

Diagnostic Feasibility Study for Improvements to Centennial Lake

Provided professional engineering and environmental services for rehabilitation and enhancement of Centennial Lake, which is in the heart of the Rider University Campus. Centennial Lake was created in the 1950's as a 2.7 acre impounded "pond" along an unnamed tributary to Little Shabakunk Creek. The lake was created to provide an aesthetic feature to enhance water storage capability for fire suppression, and to provide stormwater storage for flood control purposes. Due to past and present land use practices and conditions, the ecological health of Centennial Lake and related features suffer from sediment accumulation, excessive nutrient loading in the form of nitrate and phosphate, excessive growth of aquatic macrophytes, and failure of structural retaining walls supporting banks along the stream channel that feeds the lake. The University's goals regarding the maintenance and enhancement of Centennial Lake included providing a healthy lake environment for aesthetic appeal and educational use. Colliers Engineering & Design performed a Diagnostic Feasibility Study to identify existing problems and provided recommendations for improvements to enhance the conditions of the lake.

Parking Lot Reallocation Plans for University Administrative Staff

Provided professional engineering and planning services to assist with the reallocation of parking within the existing parking fields to provide a more optimum distribution of parking to better serve administrative staff and students.

Warren County Community College **Washington, Warren County, NJ**

Maintenance Study

Colliers Engineering & Design prepared a maintenance study of the main campus and the Phillipsburg Education Center to identify and establish a budget for building and site infrastructure maintenance in the future. The study focused both on building components and site infrastructure.

Phillipsburg Education Center Sidewalk and Accessibility Improvements

Colliers Engineering & Design prepared construction plans and bid documents to install sidewalks, a mid-block crosswalk, and signage to create an accessible route between the parking lot for the Phillipsburg Education Center and the Phillipsburg Education Center building. Colliers Engineering & Design worked with the Town of Phillipsburg on the procurement of the necessary approvals for the project, including the mid-block crosswalk. Colliers Engineering & Design also observed and administered the construction of the sidewalk and accessibility improvements.

Main Campus Sidewalk and Accessibility Improvements

Colliers Engineering & Design prepared construction plans, technical specifications, and bid documents to install sidewalks and other improvements to establish a conforming accessible route between the handicap parking stalls and main building entrance on the main campus. Colliers Engineering & Design procured the required outside approvals to allow for the improvements to be constructed. Colliers Engineering & Design also observed and administered the construction of the sidewalk and handicap accessibility improvements.

Campus Amphitheater Project

Colliers Engineering & Design prepared a subsurface evaluation of the area south of the building on the main campus to determine if subsurface conditions were suitable for the construction of an amphitheater. Concurrent with the subsurface evaluation, Colliers Engineering & Design developed a concept plan for the amphitheater and worked with college representatives on refinements to the concept plan. Colliers Engineering & Design prepared construction plans, technical specifications, and bid documents to allow for the construction of the amphitheater.

Property Acquisition from Warren County

Colliers Engineering & Design prepared a boundary survey of Lots 1 and 2 in Block 16.01 located in Franklin Township, which total 32± acres, and a plan to adjust the lot lines between these lots to allow for the College to acquire an 8.68± acre tract from Warren County to provide more land to enhance its recreational and summer programs. Following the perfection of the subdivision, Colliers Engineering & Design performed a subsurface assessment to determine the suitability of developing the 8.68± acre parcel for recreation.

Building Expansion Project (2007-2009)

Colliers Engineering & Design provided civil engineering, geotechnical engineering, structural engineering, ecological, and land surveying services to the WCCC on a project that involved the construction of two additions to the college building including a 20,000 SF addition for classrooms and 2,000SF addition for a cafe. Colliers Engineering & Design prepared construction plans for site improvements, procured approvals from outside review agencies with jurisdiction, and observed and administered construction of site improvements and some of the building improvements.

Chapter 12 Grant Monies Application (2008)

Colliers Engineering & Design prepared concept plans and construction cost estimates and assisted the WCCC in the completion of certain sections of the grant application that the College was filing with the State of New Jersey for Chapter 12 monies to allow for the reconstruction of various parking areas and access driveways that serve the campus to address various safety issues.

Facilities Master Plan (2009)

Colliers Engineering & Design teamed with the firms of SSP Architects and Great Meadows Electrical on the preparation of a facilities master plan for the Board of Trustees so that the WCCC could determine the capability of its current space and infrastructure including utilities, and the work that will be necessary on and off the campus to meet increasing enrollment over the next 10 years.

Library Renovation Project (2010-2011)

Colliers Engineering & Design teamed with the firm of SSP Architects on the preparation of plans for the library renovation project. Colliers Engineering & Design prepared plans for a temporary access road to allow for the renovation project to proceed and prepared a soil erosion and sediment control plan for the project.

Amphitheater Project (2010-2011)

Colliers Engineering & Design teamed with the firm of SSP Architects on the preparation of a concept plan for a future campus amphitheater in the lawn area south of the main college building. Colliers Engineering & Design prepared a topographic survey for the project area and reviewed various design concepts with SSP Architects.

Mercer County Community College **West Windsor, Mercer County, NJ**

Campus Walkways

Colliers Engineering & Design provided professional site/civil engineering services for construction of a proposed walkway, which connected a new entrance door at the Conference Center at Mercer to the main existing walkways on campus. The new six-foot-wide walkway project involved grading, drainage and lighting design, in addition to structural calculations for the light pole foundations. Plans and calculations were submitted to the Township of West Windsor for the procurement of construction permits.

Rowan University **Glassboro, Gloucester County, NJ**

Route 322 Feasibility Study

Colliers Engineering & Design conducted a feasibility study including concept development and preliminary investigation for a bypass to alleviate the burden of traffic through the center of Rowan's Campus. For each alignment, potential environmental and community impacts were considered.

Rowan Boulevard Redevelopment

Provided survey and site design services for the new three-story Rowan Housing Building, the new Barnes & Noble Bookstore, and the new parking garage. This redevelopment project will connect the Rowan University Campus with downtown Glassboro.

Essex County College **Newark, Essex County, NJ**

Parking Deck

Geotechnical and traffic engineering and surveying services associated with a proposed parking deck structure, which will be four (4) to five (5) stories high and will be prefabricated and occupy the entire existing parking area. The area may have buried structures. Services included: partial boundary and topographic surveys, traffic impact study, and subsurface soil test borings.

Middlesex County College **Edison, Middlesex County, NJ**

New Theater

Site design and civil engineering provided for a new one-story 6,535 SF addition of a Black Box Theater to the Performing Arts Center at the College. Services included concept plan reviews for potential conflicts with stormwater management or utility design as well as grading and pedestrian circulation; site plan drawings (dimension plan, grading plan, utility plan, soil erosion and sediment control plan, landscaping plan, and construction details); and construction administration and inspection.

Rowan College at Burlington County **Mount Laurel, Burlington County, NJ**

New Academic Building & Energy Control Buildings

Geotechnical investigation for a new academic building and an energy control building at the Mount Laurel campus. The academic building is a three-story structure. The energy control building is a one-story structure. The services provided included subsurface evaluation, geotechnical analysis, and laboratory testing as well as the preparation of a geotechnical recommendation report.

Morris County College **Randolph, Morris County, NJ**

Student Center Addition

Site design and civil engineering services for a 20,000 SF addition to the existing student center at the college. Other services included existing conditions and topographic surveys, concept plan, grading and utility plan, soil erosion and sediment control plan, landscape and lighting plan, stormwater analysis (underground dry wells), and preparation of bid documents.

Sussex County Community College **Newton, Sussex County, NJ**

Building Addition

Site design and civil engineering services provided for a new two-story 27,000 SF building to the County Community College. Other services included concept plan review, landscape and lighting plans, grading and utility plans, soil erosion and sediment control plan, landscape architecture services to the design layout of the proposed pedestrian bridge, stormwater analysis and detention basin design, and preparation of bid documents.

Mount Saint Mary College **Newburgh, Orange County, NY**

College Courts Building #35

Provided professional engineering services for the renovations to College Courts Building #35, an existing dormitory. These services included topographic surveying and the preparation of conceptual plans through construction documents. Our plans included existing conditions and demolition plans; layout (dimension) plans; grading, drainage, and utility plans; soil erosion and sediment control plans; landscape and lighting plans; and construction detail sheets for the

proposed site work. Building improvements included layout of pedestrian access walks and stairs, ADA ramp and building access, parking area, stormwater conveyance system, and proposed utility connections. Construction administration services included project coordination meetings with the project architect and client, bidding assistance, site inspections, and review of shop drawings.

Clarkson University **Potsdam, St. Lawrence County, NY**

Science Center Addition

Site design and civil engineering services provided for the proposed addition to connect the Bayard Science Center and the Schuler Educational Resources Center buildings. Services included preliminary site plans, dimension plan; grading, drainage and utility plans; landscaping and lighting plans; erosion and sediment control plan; and stormwater pollution prevention plan. The project is seeking LEED certification.

United States Military Academy **West Point, NY**

Golf Training Facility

Professional engineering services provided for the construction of a 5,000 square foot golf training facility including full synthetic putting and chipping green, locker rooms, and offices. Services included review of plans; preparation of erosion control plan, erosion, and sediment control inspections; final as built topographic survey; and construction stake-out.

Foley Athletic Center

Professional engineering services provided for the construction of the Foley Athletic Center. Services included field survey work to update topographic mapping and geotechnical services including performing test borings to assist the project structural engineer in foundation system considerations.

Rugby Sport Center

Professional engineering services provided for the construction of a 580-seat rugby sports center. The Facility included a 100,000 SF synthetic grass practice field, natural grass tournament field, parking, and associated amenities. Services included review of plans, preparation of erosion control plan, and full storm water pollution prevention plan (SWPPP); erosion and sediment control inspections; and construction stake-out (building, lighting poles, field, and center line of road). We are currently under contract to provide Landscape Architectural Services for the design of a Memorial Park on site. Other engineering services included site modifications (grading and drainage).

New York Military Academy **Cornwall-On-Hudson, NY**

Potential Campus Expansion

Prepared due diligence studies and prepared conceptual site plans for a vacant parcel on the grounds of the New York Military Academy facility. Services included site inspections regarding surface drainage patterns, existing utilities, signage, and striping along NYS Route 9W; investigated

potential site entrances; and measured sight distance and surrounding developments in preparation of developing a conceptual site plan. NYSDEC, NYSDOT, the Town Engineer, Highway, and Water and Sewer Departments were contacted for available mapping, capacity constraints, and the availability of service. Firm Ecologists reviewed records of endangered species, flagged freshwater wetlands, sought jurisdictional determinations, and stream classifications on the parcel as applicable. Traffic engineers reviewed pedestrian and vehicular circulation on the campus and in relation to this new concept plan.

Haldane School **Cold Spring, Putnam County, NY**

Drainage Improvements

Performed an inspection of a slope failure caused by a large rainfall event on an under designed rip-rap channel on a steep slope. Included in our study were two (2) detention basins, one at the base of the failed slope (terminus of the rip-rap channel) and the other west detention basin between the athletic fields and State Route 9D. Working with the Superintendent of Schools and the Director of Buildings and Grounds, firm engineers analyzed and prepared a properly sized and stabilized channel in accordance with the NYS Standards and Specifications. Additionally, review the functionality of the receiving detention basins and design of stable rip-rap discharge points were provided.



Project Details

Client

Morris County

Completion Date

2024

Services

Construction Management, Landscape Architecture, Geotechnical Engineering, Stormwater Management Services, Structural Engineering, Electrical Engineering, Civil Engineering, Construction Observation and Material Testing, Porous Pavement Design, Survey

Career Training Center at CCM

Randolph, NJ

Funded by the Secure Our Children's Future Bond Act, the Career Training Center designed for the Morris County Vocational Technical School District is a specialized vocational school on the County College of Morris Campus.

Working with an architectural firm, our professionals provided a variety of engineering services for the two-story, 43,350 SF academic building, surrounding hardscape, parking areas and future solar components. Navigating changing state regulations, we were the civil engineer, geotechnical engineer, solar electrical engineer, landscape architect and surveyor of record for the project at the initial design stages and continuing throughout construction.

Our services include preparation of schematic design, design development and construction documents while also coordinating local, county and state engineering permits. During construction our professionals provided construction administration services including water allocation permit coordination, RFI/submittal review in addition to building material testing.



Project Details

Client

New Jersey Institute of Technology

Completion Date

2021

Construction Costs

\$3,500,000

Services

Landscape Architecture, Environmental, Permitting & Entitlement, Civil Engineering

NJIT - The Green at University Park

City of Newark, NJ

Colliers Engineering & Design provided landscape architecture design and environmental and civil engineering for a proposed green at New Jersey Institute of Technology (NJIT) in the City of Newark. Encompassing nearly a city block, the University will remove both small and large multi-story buildings to implement a proposed green space, which will continue to connect the University with the surrounding City via an aesthetic pathway through a green space. The proposed pathway will provide both an ADA compliant pathway through the space as well as an alternative direct walkway through the property, as it ascends 20 feet up from the intersection of Central Avenue and Dr. Martin Luther King Jr. Boulevard. An additional parking area was provided to meet the client's needs while fencing, lighting, and strategic landscaping provided additional security and pedestrian control.

Our services included hazardous material screening and reporting within the existing buildings, inclusive of asbestos and lead based paint; abatement specification preparation; zoning analysis to define site parameters; development of a concept plan addressing factors such as zoning regulations, significant grade change, existing utilities, and stormwater management; and the preparation of a Preliminary and Final Site Plan for the City of Newark and Essex County. We also coordinated with local utility, Soil Conservation, and Engineering Departments as well as Essex County for permitting.



Project Details

Client

The PRC Group

Completion Date

2016

Construction Costs

\$120,000,000

Services

Landscape Architecture,
Geotechnical
Engineering,
Construction
Engineering &
Inspection, Ecological
Services, Traffic/
Transportation
Engineering, Traffic
Study/Analysis,
Traffic Signal Design,
Roadway Lighting,
Safety Improvements,
Roadway
Improvements, Traffic
Control/Detours

The College of New Jersey Campus Town Development

Ewing Township, NJ

Colliers Engineering & Design performed transportation engineering design services associated with The College of New Jersey (TCNJ) Campustown Project, a redevelopment of 14 acres along Pennington Road (Route 31) at the entrance to the campus. This project was designed to be a sustainable, walkable, and environmentally responsible complex on campus that serves as an alternative to traveling by car to shopping and other services along the nearby Route 1 corridor. The development contains over 400 apartment units; approximately 80,000 SF of retail; a fitness center; and campus police substation. To accommodate the development, the existing signalized intersection at Route 31 and Main Boulevard was modified to allow for new movements and a fourth leg. Our services included traffic modeling and analysis, a brand new traffic signal and lighting system, roadway widening, signing and striping plans, traffic control plans, ADA ramp design, and construction administration services.



Project Details

Client:
Middlesex County

Completion:
2016

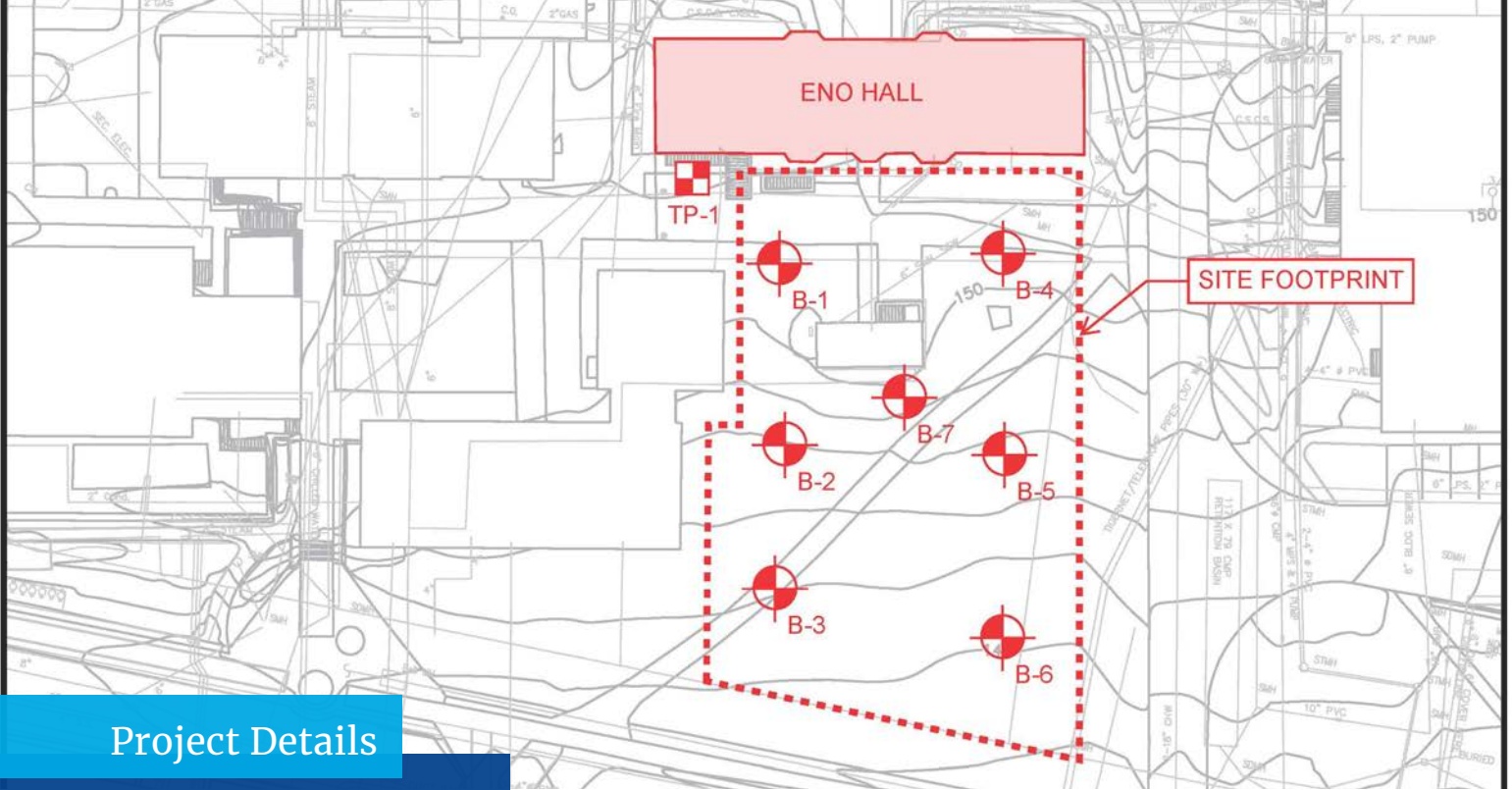
Construction Cost:
\$15,000,000

Services:
Geotechnical Engineering,
Stormwater Management
Services, Civil Engineering,
Survey

Middlesex County College Academic Science Building Edison Township, NJ

Provided engineering services for the new Academic Science Building on the Middlesex County College campus in Edison Township, located near the intersection of Mill Road, Woodbridge Avenue, and Patrol Road. The new 34,000 sq. ft., two-story Academic Science Building will provide students with state-of-the-art classrooms and labs. Additional site improvements included lighting improvements and resurfacing on Parking Lot #3, near the building.

Our professionals provided a feasibility study, site analysis, concept plans, topographic survey, a geotechnical study, a full site plan, and stormwater management services. We also coordinated with the architect and construction manager to analyze the site design elements and provide documentation on the U.S. Green Building Council LEED credit check list to assist in achieving LEED Gold Certification.



Project Details

Client:
Princeton University

Completion:
2019

Consulting Value:
\$14,000

Services:
Geotechnical Engineering

Princeton University Health Center Building Addition Princeton, NJ

Colliers Engineering & Design was retained to provide geotechnical engineering services for the design and construction of the proposed four-story abovegrade building addition which included two separate basement levels. Our geotechnical engineers and technicians performed a geotechnical subsurface exploration program, in-house laboratory testing, and analysis.

Subsequent to the explorations and analysis performed, a geotechnical engineering recommendations report was furnished for the proposed building addition to the existing two-story above grade and one basement level building. Special considerations were made to the design and construction of the proposed foundations due to the proximity of the adjoining building and previous development within the site. Our geotechnical services were completed in 2019. The design and construction of the project is ongoing.



Project Details

Client

Princeton University

Completion Date

2016

Construction Costs

\$500,000

Services

Traffic/Transportation
Engineering, Traffic
Study/Analysis,
Traffic Signal Design,
Roadway Lighting,
Safety Improvements,
ADA/Pedestrian
Improvements

Princeton University Complete Streets & Transportation Improvement Projects

Princeton, NJ

Colliers Engineering & Design worked with Princeton University to continue to advance their initiatives to improve and enhance the pedestrian and bicycle facilities and to provide a premier network for the safe passage of all users. This effort included enhancements at seven signalized intersections and three mid-block crossings throughout the campus. These efforts included various technological safety enhancements, such as full traffic signal modifications, accessible traffic signals (audible), passive pedestrian detection, high-friction surfacing installation, ADA curb ramp improvements, pedestrian and intersection lighting design, enhanced signing, and Rapid Rectangular Flashing Beacon (RRFB) installation. Specifically, at the intersection of Faculty Road and Broadmead Street, the improvements were more complex as the additional pedestrian traffic in the area. In addition to the typical improvements listed above such as curb ramp and beacon installations, traffic calming measures east and west of the intersection were installed. A realigned curb geometry along with cobble stone medians and shoulders were installed to slow motorists and the implementation of shared lane use markings for bicycles were installed to help increase awareness and connectivity for the bicycle community.



Project Details

Client:
USA Architects

Completion:
2017

Construction Cost:
\$25,000,000

Services:
Landscape Architecture,
Geotechnical Engineering,
Structural Engineering, Civil
Engineering

Rowan College Student Success Center

Mount Laurel Township, NJ

Colliers Engineering & Design provided structural engineering, civil/site engineering, landscaping, and geotechnical engineering services for the complete design of the new Student Success Center on the Mount Laurel Campus of Rowan College at Burlington County. The building is a two-story, 79,500 sq. ft. structure that houses a student library, bookstore, cafeteria, and offices. The building has over 15,000 sq. ft. of glass curtain walls around most of the facades and a 15'-0" long cantilevered second floor at the northeast building wing. Our services included structural design of the building's steel superstructure and concrete foundation, site design of the building's landscaping and hardscaping, and a geotechnical investigation of the existing soils.



Project Details

Client

Fairleigh Dickinson University

Completion Date

2019

Construction Costs

\$3,500,000

Services

Landscape Architecture,
Geotechnical Engineering,
Bridge Engineering,
Structural Engineering,
Civil Engineering,
Permitting

Fairleigh Dickinson University Pedestrian Bridge

City of Hackensack, NJ

Colliers Engineering & Design provided engineering services to design preliminary and final major site plans for the pedestrian bridge replacement at Fairleigh Dickinson University. The existing four-span pedestrian bridge had an aging superstructure in need of heavy repairs and maintenance, and the client wanted to replace it with a modern "green" pedestrian bridge. As part of the new design, our professionals suggested utilizing the existing substructures (abutments and piers) to support the new superstructure, which resulted in significant time and cost savings for the client.

Our services included a structural analysis of the existing pile-supported substructures for the new loads, including seismic, and concrete repairs to the pile bents and abutments. We provided structural engineering, geotechnical engineering, civil/site engineering, and permitting services, as well as construction drawings. The project required extensive coordination with the architect and bridge manufacturer during all phases of the design.



Project Details

Client:

Gloucester County
Improvement Authority

Completion:

2021

Construction Cost:

\$47,000,000

Services:

Construction Quality Control,
Construction Observation
and Material Testing, Special
Inspections

Rowan University Discovery Hall

Glassboro, NJ

Colliers Engineering & Design is providing construction quality assurance services for the construction of Rowan University's new Discovery Hall, a 67,560 sq. ft. Academic Building at the Glassboro Campus. The new Academic Building will house spaces for the College of Science and Math and the new School of Earth and Environment. This new four-story building will also include general teaching classrooms, active learning classrooms, science teaching laboratories with a variety of public and collaboration spaces, and administrative offices.

Our services include construction quality assurance, materials testing, and special inspections of structural steel (bolting and welding), spray-applied fireproofing (thickness, density, and bond strength), floor flatness and levelness, asphalt placement, structural masonry, general earthwork (proof-rolling, backfill monitoring, compaction testing), reinforcing steel, and cast-in-place concrete placement for footings, foundations, slabs (on-grade and on-deck), piers, and columns. Discovery Hall will be one bookend of the academic facilities along the central campus corridor. Its landscaping and permeable paving surfaces will contribute to Rowan's comprehensive storm management with native plants and recycled materials.



Project Details

Client:

Toms River Regional Schools

Completion:

2020

Construction Cost:

\$147,000,000

Services:

Construction Engineering & Inspection, Municipal Engineering, Stormwater Management Services, Unmanned Aerial System (UAS), Bid Document Preparation

Toms River Board of Education Referendum Projects

Toms River Township, NJ

Colliers Engineering & Design is currently managing a \$147M Referendum Program for the Toms River Regional School District. The program includes improvements to 23 of the District's Facilities including 3 high schools, 3 intermediate schools, and 12 elementary schools and grounds. The scope of our work involves comprehensive engineering and construction management services for all building and site-related improvements. Our responsibilities include oversight of all design and construction including the generation of overall project schedules and budgets to match the District's expectations and aggressive deadlines. We have developed a contracting strategy to phase the projects to minimize interruption to the school operations. As the projects are awarded, we are responsible for construction management services, including QA/QC, payment application review, change orders, scheduling, and permits.

Each of the 23 facilities were in need of various capital improvements. Based on the needs assessment, a wide range of improvements included new roofing, improvements to HVAC systems including electrical upgrades, science laboratory upgrades, security vestibules, security improvements, window replacements and security film, new interior and exterior doors, flooring, and parking lot improvements. Recreational projects included re-surfacing of three artificial turf athletic fields with upgraded amenities and re-development of 13 playgrounds Fully funded by bonding approved through the referendum, these projects are being completed as part of the Township's Rebuilding Our Schools initiative.



Project Details

Client:

Toms River Regional Schools

Completion:

2015

Construction Cost:

\$1,500,000

Services:

Landscape Architecture,
Construction Engineering
& Inspection, Stormwater
Management Services,
Structural Engineering,
Water/Wastewater
Engineering, Civil
Engineering, Survey

Toms River High School South Grandstand Replacement

Toms River Township, NJ

Colliers Engineering & Design designed a modern 2,100-seat, ADA-compliant raised grandstand to replace the existing smaller, dilapidated grandstand at Toms River High School South, complete with a larger, updated press box. Our professionals also redirected the flow of attendees to pass under the structure instead of in front of it, as was previously done.

With the redesigned layout, two new restroom buildings were installed under the bleachers, and the concession building was restored to meet current codes. In addition, a new concourse area was created for overflow near the concession building, and additional site improvements such as walkways, fences, gates, and retaining walls, were provided.



Project Details

Client:
Montvale Borough

Completion:
2018

Construction Cost:
\$985,000

Services:
Construction Engineering
& Inspection, Municipal
Engineering, Sports &
Recreational Services

Fieldstone School Synthetic Turf Field Installation

Borough of Montvale, NJ

Colliers Engineering & Design provided design and construction inspection services for the removal and disposal of the existing synthetic turf and installation of new materials at Fieldstone Middle School in Montvale. The work included the replacement of 4.4 acres of synthetic turf for the existing soccer fields, baseball outfield, baseball batter's box area, softball outfield, and the entire softball infield, including the pitcher's mound and batter's box area.

Our work included the evaluation of equipment and material access requirements, site requirements for the removal and disposal of the existing synthetic turf and related materials, site installation requirements, the need for minor site regrading, the need to supplement the sub-base drainage system, and staging locations for synthetic turf materials. We also coordinated the purchase of replacement turf through the Keystone Purchasing Network (KPN), a national purchasing cooperative that reduces the cost of acquisition for educational and local governmental clients.



Project Details

Client:

Neptune Township Board of Education

Completion:

2017

Construction Cost:

\$8,800,000

Services:

Geotechnical Engineering,
Environmental, Structural
Engineering, Civil
Engineering, Survey

Neptune Middle School Improvements

Township of Neptune, NJ

Colliers Engineering & Design provided structural engineering, civil/site engineering, land survey, environmental services, and geotechnical engineering for the complete design of two new additions to the existing Neptune Middle School and the renovation of the two existing gymnasiums. The first addition is a one-story 3,400 sq. ft. building to be used for offices, and the second addition is a two-story 2,000 sq. ft. building used for offices and restrooms. The renovation of the gyms consisted of the removal of large lengths of existing masonry walls to create additional seating space. Our services included structural design of the building's steel superstructure and deep foundation, site design of the building's utilities, and a geotechnical investigation of the existing soils.



Project Details

Client:
Becica Associates, LLC

Completion:
2019

Consulting Value:
\$35,000

Services:
Geotechnical Engineering

Haddonfield High School

Haddonfield Borough, NJ

The Haddonfield High School Manual Arts, Gymnasium, and Cafeteria Building is a two-story brick structure with a basement occupying a portion of its footprint. The structure is founded on conventional spread footings located along its north and south walls. Signs of overstress were observed within various locations of the building and the north and south bearing walls. As such, additional foundation elements were proposed along the north and south walls to provide additional foundation support and relieve the corresponding overstress.

Colliers Engineering & Design developed a geotechnical exploration program to expose existing foundations and reveal the underlying subsurface conditions and develop recommendations for additional foundation elements. Based on our evaluation, new foundation elements consisting of concrete piers each supported on four helical piles extending approximately 25 ft below adjacent grades were recommended.



Project Details

Client:
Berlin Borough

Completion:
2018

Construction Cost:
\$84,535

Services:
Geotechnical Engineering,
Construction Engineering
& Inspection, Municipal
Engineering, Stormwater
Management Services,
Survey

Berlin Community School Drainage Improvements

Berlin Borough, NJ

Colliers Engineering & Design prepared construction plans and bid documents to correct an ongoing drainage issue at the Berlin Community School ball fields and nearby residential properties. Due to excessive runoff from the Community School baseball fields, adjacent residential properties that backed up to the outfields were experiencing significant drainage runoff and soil erosion during high intensity rain storms. Our professionals completed a drainage analysis and geotechnical evaluation to determine the best solution to significantly reduce the overland drainage flow. The geotechnical evaluation determined that soils with much improved infiltration rates existed approximately 10 feet below surface grade.

Colliers Engineering & Design designed an infiltration/storage trench complete with a storage/drainage swale and surface drainage inlets along the rear property of the school. This system intercepted the drainage flow and allowed collection and infiltration to prevent the overland flow from impacting the adjacent properties. Since construction was completed in Fall 2018, there have been no complaints, despite the record precipitation in Fall 2018 through Spring 2019.

Section 5, 6 & 7

Contact Information,
Statement of
Assurance, &
Current Projects



Office Locations

Services for this contract will be provided primarily from our Mt. Arlington Office, which is located:
400 Valley Road, Suite 304
Mt. Arlington, NJ 07856
Phone: 973 398 3110

Our company headquarters is located in Holmdel, NJ:
100 Crawfords Corner Road, Suite 3400
Holmdel, NJ 07733
Phone: 732 383 1950

Statement of Assurance

Colliers Engineering & Design is not currently in violation of any regulatory rules and regulations that would impact the firm from providing professional services for this contract.

Current Active Projects

The Colliers Engineering & Design (CED) team will dedicate our seasoned experts to your projects. We anticipate no on-going projects that would impede our performance on the anticipated tasks to be assigned under this contract. Involvement of project personnel identified on our team organizational chart will depend on the services required for each assigned task. CED is confident in our internal staff depth, and our deep bench of professional resources will complete your projects on time, within budget, and exceeding quality standards.

Section 8

Services

Civil & Site Engineering

From single buildings to large sites, we provide complete civil & site development services for all your project needs.

Colliers Engineering & Design engages with our clients as a strategic partner providing complete civil and site engineering services to both public and private clients. Our designs include residential, commercial, retail, financial, educational, recreational, restaurant, healthcare, landfill, energy, industrial, warehouse, mission critical and governmental. We begin with comprehensive site feasibility evaluations as part of the due diligence process to identify potential pitfalls and implement strategies to overcome them, and we have extensive experience in traditional development as well as mixed use, redevelopment, urban and brownfield projects.

We capitalize on our robust in-house capabilities and experience during the land planning and entitlement process, minimizing the need for future plan changes and delays. We have an outstanding track record of highlighting the benefits of each project with dynamic presentations to regulatory bodies and agencies to substantiate the basis for approvals and allay the concerns of an often wary public.



- Due Diligence Consulting
- Land Use Planning
- Land Surveying/GPS
- Site & Subdivision Design
- LEED Accredited Staff
- Landscape /Lighting Plans
- Stormwater Management
- Hydrologic & Hydraulic Studies
- Regulatory Permitting
- Hydrogeologic Analysis & Design
- Environmental Services
- Cultural Resource Management
- Traffic Impact Analysis
- Highway Improvements
- Water/Wastewater Engineering
- Geotechnical Studies
- Construction Stake-Out



Construction Engineering & Inspection

Providing complete construction observation & inspection services.

Our professionals successfully oversee project construction from pre-construction through finalization with an outstanding track record for cost and schedule containment. Our professional licensed engineers and NICET certified construction staff have extensive on-the-job experience in supervision, observation, safety review and inspection with ongoing training that ensures required daily schedules are adhered to and all materials are procured and constructed according to plans and specifications.

This experience includes heavy highway, single and multi-span bridges, intersection and traffic signal improvements, marine improvements, railroad upgrades, water/ wastewater transmission, and park and recreation construction. We also have extensive experience in end-to-end transmission and distribution facilities, switching stations and substations, outage management.



- Scoping & Feasibility Studies
- Cost Estimation & Scheduling
- Condition Assessment & Asset Inventory
- Project Documentation
- Submittal & Design Review
- Critical Path Method (CPM)
- Construction Plan Analysis
- Construction Risk Identification & Avoidance
- Field Inspection
- Utility Relocation Coordination & Support
- Change Order & Field Conflict Resolution
- Quality Control
- Field Material Testing
- Resident Engineering
- Owner's Representation
- Expert Witness Testimony
- Safety Review
- Community Outreach
- Emergency Response



**Engineering
& Design**

Construction Project Management

A closely engaged advocate, on-site regularly, can have a tremendous impact on the final quality and cost of a project.

We act as your partner throughout project development from early feasibility studies to project completion. Our tailored approach guides every phase of your venture to deliver an end-result that is on-time and on-budget.

Colliers Engineering & Design provides Construction Project Management services to private and public clients for building projects located throughout the NJ/NY/PA area. Our services have assisted owners in the proper construction administration of building projects including healthcare, hospitality, education, commercial/retail, industrial, fire stations, police stations, and town halls. We differentiate ourselves through our construction, forensic, engineering, environmental, and architectural resources, which adds value to all phases of your project.



- Define Project Objectives
- Assist in Site Evaluations & Acquisitions
- Develop Conceptual/ Preliminary Budget
- Prepare Conceptual Milestone Schedule
- Assist Design Team Selection
- Project Scope Development
- Cost Estimating & Value Engineering
- Constructability Review
- Life Cycle Cost Analysis
- Design Team & Project Team Management
- Pre-qualification/Selection of Contractors
- Bid Preparation & Analysis
- Contract Negotiations
- Permit Assistance
- Schedule & Cost Management
- QA/QC & Change Order Review
- Project Close-out & Oversight



Environmental Services

Delivering innovative solutions to environmental challenges through technology & expertise.

Our environmental experts provide effective site remediation and redevelopment solutions. We offer these services to a variety of private, commercial and governmental clients. Our professionals possess a keen understanding of the regulatory, technical and financial aspects of projects, and are accustomed to working closely with legal, fiduciary and institutional specialists to the benefit of our clients.

Our project team members are selected according to the unique needs of our clients, and are drawn from our in-house geologists, engineers, environmental scientists and geophysicists. In addition to remediation, our project managers possess decades of experience in permitting, water-resource management, wetlands and ecological studies, grants and funding, and litigation support.



- Brownfield Redevelopment
- Vapor Intrusion Investigations
- Regulatory Compliance, Audits & Permitting
- Groundwater Resource Development
- Hydrogeologic Studies
- NJ ISRA (and similar laws) Compliance
- Environmental Impact Studies
- Phase I & II Environmental Site Assessments
- Asbestos & Lead-Based Paint Surveys
- Response Planning & Risk Management
- Surface Water & Sediment Studies
- Air Quality Assessments
- Noise Studies
- Geologic Hazards Evaluations
- Expert Support
- Licensed Site Remediation Professionals – NJ/LSRPs



Engineering
& Design

Geotechnical Engineering

Providing innovative and cost-effective design and consultation services related to subsurface site characterization.

Colliers Engineering & Design's geotechnical professionals recognize the importance of providing practical and cost-effective solutions to help achieve project goals. Strong interdepartmental communications streamline our geotechnical services to blend with other in-house disciplines during the planning, design, and construction phases which ensure practical and efficient design. In addition, our Material Testing Laboratory is accredited by AASHTO (Re:Source) and US ACOE and is fully equipped to provide full assessments of the project subsurface conditions.

We can offer full site characterization services, including subsurface explorations, geophysical surveys, groundwater observations, seismic assessment, risk assessment, field & laboratory testing, stormwater testing, and geological hazard evaluation. We also provide design and construction services, as well as performance monitoring, rehabilitation, forensic engineering, and expert testimony.



- Shallow & Deep Foundations
- Excavation Support Systems (ESSs) & Underpinning
- Earth Retaining Structures
- Soil/Rock Slope Stabilization
- Marine & Waterfront Structures
- Dams & Flood Control Structures
- Pavements & Underdrains
- Performance-Based Design & Numerical Modeling
- Karst Hazards & Sinkhole Mitigation
- Seepage & Groundwater Control
- Ground Improvement
- Controlled Special Inspection
- Monitoring & Pre-construction Surveys
- Value Engineering



Engineering
& Design

GIS Asset Management

Managing your assets and facilities accurately in real-time.

Geographic Information System (GIS) management services provide our clients with a comprehensive platform to map and manage their assets across departments, locations, facilities, and business units. Managing your assets and facilities using GIS technology will improve your organization's resource utilization and performance, reduce capital costs, reduce asset-related operating costs, extend asset life, and subsequently improve return on assets.

Our certified GIS professionals (GISPs) provide GIS start-up services to clients by offering GIS needs assessments and implementation planning. By walking our clients through the development, implementation and training process, we deliver a feature-rich GIS platform configured to meet their needs. We utilize state-of-the-art methods for data collection, data modeling, mapping, asset inventory, and condition assessment.

Our clients benefit from GIS by saving time and improving workflows and business processes while improving communication with customers and the community through intuitive and easy-to-use web maps and applications, story maps, public surveys and service request options.



- GIS Needs Assessments
- GIS Program Implementation Planning
- GPS/GNSS Data Collection
- Mobile Field Applications
- Storymaps
- Public & Secure Web-Based Mapping Portals
- Enterprise Architecture
- Service Request & Work Order Applications
- Land Base Mapping
- Utility Mapping
- Environmental Mapping
- Suitable Site Analysis
- Property Record Mapping
- Database Integration
- Document Management
- Web-Based Asset Management Applications
- GIS & GPS Training



Engineering
& Design

Grants & Funding Services

Providing resources & expertise to help communities obtain and administer grants and other funding programs.

Our grant professionals have the expertise necessary to assist your municipality in shaping its future by obtaining the funding necessary for turning community visions into reality. Our experience encompasses the research, procurement and administration of grants for all types of projects.

We have procured and administered a range of grant types, including State Clean Water & Drinking Water Revolving Funds; Transportation Alternatives Programs; Community Development Block Grants; State Transportation Funding; Hazard Mitigation Assistance; Open Space, Recreation & Conservation Programs; Coastal Resiliency; Disaster Recovery Programs; Congestion Mitigation & Air Quality Improvement Programs; Emergency Services Funding; and Historic Preservation Programs.

In particular, our team's experience with Federal programs is invaluable to ensuring your project's compliance with all requirements, including environmental reviews, labor standards compliance, prevailing wage, reporting and recordkeeping.



- State & County Open Space & Recreation Grants
- EPA Clean Water State Revolving Fund
- EPA Drinking Water State Revolving Fund
- State Environmental Water Quality Improvement Programs
- MPO Highway Safety Improvement Program (HSIP) Local Safety Grants
- State DOT Grants
- FHWA Safe Routes to Schools
- FHWA Transportation Alternatives Program (TAP)
- HUD Community Development Block Grant (CDBG) & CDBG-Disaster Recovery (CDBG-DR)
- FEMA Flood Mitigation Assistance (FMA)
- FEMA Hazard Mitigation Grant Program (HMGP)
- USFWS National Boating Infrastructure Grant (NBIG)
- Federal Energy Efficiency and Conservation Block Grant
- State Planning Assistance Grants



Engineering
& Design

Land Survey & Measurement

Precision surveying providing accurate and reliable results.

Colliers Engineering & Design's survey professionals have the expertise to achieve highly accurate results while maintaining quality control. Whether the project calls for conventional surveying methods, cutting-edge geospatial scanning techniques or a combination of both, our professionally licensed land surveyors, highly-trained office technicians and field crews work seamlessly together to provide responsive and consistent professional survey services. Implementing this comprehensive approach for each project ensures our clients are receiving precision surveying and measurement services.

Our surveyors perform topographic and boundary surveys, construction stake-out and as-built surveys for existing and new residential and commercial properties. Our capabilities also include the use of hi-definition laser scanners enabling our professionals to quickly capture collect data from a multitude of sources including complex facilities, buildings, bridges, structures, and roadways.



- ALTA/NSPS Land Title Surveys
- Topographic & Boundary Surveys
- Construction Stake-Outs
- Site Remediation Surveys
- Highway Route Surveys
- GPS Surveying
- GIS Mapping
- State Compliant Tax Map Services
- As-Built Surveys/Construction Records
- 3D Hi-Definition Laser Scanning
- Hydrographic, Flood Elevation, Riparian & Wetlands Surveys
- Pipeline & Utility ROW Surveying
- Deformation and Displacement Monitoring Surveys
- Aerial Photo Control Surveys for Mapping
- Subsurface Utility Location & Ground Penetrating Radar
- Boundary Resolution Assistance
- On-Call Traffic Accident Surveys



Landscape Architecture

We recognize the fundamental relationship between a community and its landscape.

Our team of licensed and registered landscape architects and LEED accredited professionals provides a multi-disciplined approach to each project. With strategies that complement the public project environment, our professionals are experienced in all facets of landscape design, bidding document preparation and construction administration.

We routinely collaborate with architects, planners and other team members to specify amenities, plant materials and hardscape features to create the appropriate aesthetic balance between the requirements of the project and the natural environment. Our barrier-free designs incorporate features that enable everyone to participate in the spaces we create.



- Landscape Concept & Site Planning
- LEED & Sustainable Design
- Streetscape & Urban Design
- Active/Passive Park & Recreation Design
- Athletic Facility & Site Lighting Design
- Playground Inspection & Design
- Vegetation Inventories, Analysis & Maintenance Plans
- DEP Licensed Tree Experts
- Barrier-Free Compliance Review & Design
- Aquatic Facility Design
- Litigation Support
- Licensed Irrigation Design Professionals
- Construction Observation & Administration

Natural Resources

Restoring and protecting our natural resources for future generations.

Our Natural Resource scientists provide expertise for all stages of land and infrastructure development. Our planning, field design, natural resource assessment, and oversight services balance protecting the environment with the needs of the development community, regulatory agencies, the public, and other stakeholders.

Our professionals have the technical expertise, knowledge, background, and relationships to work with governing bodies and regulatory agencies including agency consultation, litigation support, and federal, state and local regulatory compliance and permitting.



- Wetlands/Waters Delineations
- Habitat Evaluation Assessment
- Riparian Zone Determinations & Assessment
- Forest & Vegetation Characterization, Inventory & Mapping
- Rare, Threatened & Endangered Species
- Environmental Assessments & Impact Statements (EA/EIS)
- Cultural Resources Consultations & Surveys
- Wetland & Riparian Mitigation Plans
- Ecological Restoration
- Functional Value Assessments
- Local Environmental Impact Assessment Compliance & Zoning Approvals
- State & Federal Ecological Permitting
- Environmental Compliance Monitoring
- Agricultural Lands Inventory, Assessment & Monitoring
- Invasive Species Inventory, Assessment & Control Planning



Solar Energy Solutions

Delivering complete development and permitting solutions for solar energy clients.

Colliers Engineering & Design's experienced energy solutions professionals understand that your success depends upon your solar projects being built on time and on budget. To ensure this, we provide responsive services and creative engineering and permitting solutions to better expedite the entire process. Our team of professionals can anticipate potential challenges, manage risk and provide cost-effective and viable alternatives.

From single building installations to complex solar farm developments, our experienced team of energy experts, electrical engineers, civil/site engineers, geotechnical and environmental engineers, and environmental scientists are ready to support your solar energy project.



- Boundary, ALTA, NSPS Topographic Surveys
- Construction Stake Out Survey
- Conceptual Design & Feasibility Studies
- Ecological, Wetland & Natural Resources Services
- NYSDA & Markets Compliance
- Mitigation Design & Environmental Monitoring
- SEQRA Compliance Services
- Site Selection Assessments & Mapping
- Stormwater Pollution Prevention Plans
- Permit & Application Processing
- Phase I/II ESAs & Remedial Investigations
- Visual Impact Analyses
- Project Renderings



Engineering
& Design

Stormwater Management

Our engineers, scientists and planners are building a more sustainable world through design.

Our professionals have extensive experience in providing all aspects of stormwater management to the public and private sectors. Our specialists work closely with all related disciplines including hydrologic, hydraulic, dam engineering, ecological, and environmental services to ensure that a responsible balance between the preservation of natural resources at a project site, the needs of the client, and regulatory requirements are maintained for the duration of the project.

Our professionals maintain established working relationships with local, county, state, and federal agencies, and have an in-depth, working knowledge of the regulatory processes and that is critical to keeping projects to schedule and budget.



- Stormwater Management Design
- Hydrologic & Hydraulic Computer Modeling
- Floodplain Delineation
- Dam Break Analysis
- Dam & Spillway Design
- Collection System Design
- Regulatory Permitting
- Soil Erosion Control Design
- Stormwater Quality Design
- Stream Modeling & Studies
- Irrigation Pond Design
- Best Management Practices
- Stream Stabilization
- Flooding Investigations & Mitigation Studies
- Culvert Design
- Pond & Lake Restoration



Structural Engineering (Buildings)

Our engineers will ensure your project meets today's safety standards and your functional requirements.

Our structural engineers work with clients to design new structures and evaluate the integrity of existing structures to determine the feasibility for repair, renovations or adaptive reuse. Colliers Engineering & Design's reputation for providing engineering excellence, while exceeding client expectations, has made us a leader in providing creative solutions for the public, private, commercial, and institutional markets. Our engineers have the knowledge and experience to design projects constructed of steel, timber, reinforced concrete and masonry.

Streamlined coordination with other in-house services has facilitated an efficient approach and complete engineering package that spans all phases of structural design and construction, including feasibility studies, scope and condition assessment, code compliance review, static/dynamic load analyses, drawing preparation, bidding services, and construction administration.



- Structural Analysis
- Design Documentation
- BIM Modeling, 3D Analysis & Visualization, and Finite Element Analysis
- Value Engineering
- Construction Administration
- Peer Review
- Condition Assessments & Feasibility Studies
- Equipment Support & Anchorage
- Adaptive Reuse
- Additions/Expansions
- Design-Build
- Tenant Improvements
- Historic preservation & Restoration



Engineering
& Design

Traffic Engineering & ITS

Providing safe & efficient solutions to maintain proper traffic flow.

Our vision is to deliver technologically advanced traffic engineering solutions to provide safer and more efficient transportation systems for our communities. Our traffic engineering and Intelligent Transportation Systems (ITS) professionals provide an essential component that complements our transportation planning and highway design services. Our expertise includes concept development, planning and design, performing feasibility studies traffic improvements and transportation systems management and operations support for large and small projects.

Our in-depth knowledge of the regulatory process and our established working relationships with various local, county, state, and federal agencies facilitate successful project completion. Our experts help connect communities with the surrounding environment through effective design.



- Traffic Signal Design & Operations
- Traffic Signal Warrant Analyses, Design & Estimates
- Responsive Traffic Signal Design
- Intersection & Highway Lighting
- ITS Design & Systems Engineering
- Sustainable Transportation & Complete Streets Projects
- Transportation Safety Improvement Projects, Audits & Analysis
- Traffic Operations Center Development, Management, & Staffing
- Bicycle Accommodations & Signals
- ADA Curb Ramp Design & Pedestrian Accessibility
- Railroad Crossing Safety Audits & Improvements
- Transportation Asset Inventories & Management
- Permanent Signing & Pavement Marking Projects
- Complex Traffic Control & Construction Staging



Engineering
& Design



List of Outside Consulting Services

Colliers Engineering & Design is uniquely qualified and positioned to serve the needs of The College of Morris County utilizing its in-house staff. From time to time, we have worked with the following consultants to provide specialty services:

- Roof Maintenance Systems (SBE) who provides roof design and consulting services.
- RJB Environmental, Inc., whose expertise is in industrial hygiene, mold investigation, and asbestos safety.

Section 9

Proposal Letter & Schedules A, B, & C

400 Valley Road, Suite 304
Mt. Arlington, NJ 07856
Main: 877 627 3773



May 30, 2025

Attn: Purchasing Department
Doreen DeMarco, Director of Purchasing
and Kimberly Theiler, Purchasing Manager
The County College of Morris
214 Center Grove Road
Randolph, NJ 07869-2086

MEP, Structural, or Civil Engineer(s) for County College of Morris
Colliers Engineering & Design Proposal No. 25007743P

Dear Ms. DeMarco and Theiler,

Colliers Engineering & Design, Inc. (DBA Maser Consulting) (CED) is an award-winning, multi-disciplined firm with a team of experienced professionals who have provided engineering and related consulting services to New Jersey municipalities, counties, and authorities since 1984. Our firm takes great pride in our work, and we are pleased to have the opportunity to submit our Statement of Qualifications for the above-referenced position.

CED provides services inclusive of Municipal Engineering, Water/Wastewater Engineering, Stormwater Management, GIS/Asset Management, Planning, Grants & Funding, Construction Engineering & Inspection, Environmental, Survey, Landscape Architecture, Traffic & Transportation Engineering, Architecture, and Utilities/Energy. CED can provide unmatched expertise, technology, and methodology. Having all these services available to you under one umbrella ensures that every project will be met in the most efficient, safe, and cost-effective manner possible.

Carl P. O'Brien, PE, PP, CME, CPWM has been chosen to serve as the Primary Engineer for this engagement and will be available to attend regularly scheduled and special meetings as required. Mr. O'Brien will also have access to a readily available team of licensed professionals to assist as needed, which includes twenty-three (23) Certified Municipal Engineers (CME).

Thank you for your consideration. As you review our submittal, you will find our firm to possess the specific expertise and capabilities necessary to meet the needs and requirements of the College, and we look forward to working with you. If you have any questions or require further information, please feel free to contact me at 201 572 9877 or via e-mail at xxxxxx.xxxxxxx@xxxxxxxxxxx.xxx.

Sincerely,

Colliers Engineering & Design, Inc.
(DBA Maser Consulting)

A handwritten signature in blue ink, appearing to read "A. Hipolit", with a stylized flourish at the end.

Andrew R. Hipolit, PE, PP, CME, CFM, CPWM
Senior Principal

SCHEDULE A TO ATTACHMENT 2

Fee Proposal for Basic Services

Set forth and adequately explain your fee proposal for Basic Services. The Basic Fee proposal may be either a percentage of Construction Costs (as hereafter defined), a fixed dollar amount based upon the range of Construction Costs of projects assigned within the two year contract term, or both. The College invites the offer of discounted fee rates based upon the aggregate value of projects assigned within the two year contract term.

Payment Schedule

Set forth a payment schedule breaking down the percentage or amount of fees allocated to each phase of the work.

Reimbursable Expenses

Set forth a schedule of the categories and rates for reimbursable expenses.

Definition of Construction Costs

For purposes of computing the above fees, the following definition of Construction Cost shall be utilized:

The Construction Cost shall be the total actual cost of construction as reflected in the construction contracts entered into by the College, including the cost for procurement and installation of fixed furniture, fixtures and equipment. Construction Cost shall not include the following:

- a. The cost of labor and materials furnished by the College
- b. Compensation of MEP, Structural, or Civil Engineer and the Engineer's consultants
- c. Financing costs
- d. Legal and other professional fees
- e. Insurance and bonding costs
- f. Hazardous material abatement costs
- g. Construction management fees
- h. Costs of movable furniture, fixtures and equipment

The construction contingency shall only be included in the Construction Cost to the extent actually expended by the College. Where the fees payable to the Engineer are based upon the project construction cost, during the schematic design phase, design development phase, the Construction Cost shall be the preliminary estimate of the Construction Cost prepared by the Engineer and approved by the College. At the conclusion of the bidding phase, the parties shall adjust the fees of the Engineer based upon the actual contracted Construction Cost.



Schedule A

Fee Proposal for Basic Services & Payment Schedule

Colliers Engineering & Design (CED) will provide a fee proposal on a per project basis. The fee proposal will be created utilizing our Hourly Rate Schedule (found in this Section of our proposal) and based on the level of effort required to complete our engineering assignments. Upon written authorization, CED will move forward with the agreed upon engineering scope, engineering budget, and engineering deadline.

Reimbursable Expenses

Reimbursable expenses can be found on our Hourly Rate Sheet, which is located on our Hourly Rate sheet provided for Schedule B.

SCHEDULE B TO ATTACHMENT 2

Hourly Rates by Position for Additional Services

Attach a schedule(s) of hourly rates by position for additional services beyond the scope of the Basic Services. The schedule(s) shall be labeled as applicable to year one, year two, or both. If the schedule is not labeled, the College will accept the single hourly rate schedule as applicable to both years with no cost change for the second optional year.

All projects contracted for under this RFP will utilize the rates stated in this attachment.

The County College of Morris, New Jersey
Rates are effective June 1, 2025 through May 31, 2027

Technical Staff Rates

Billing Titles	Hourly Rates
Technical Director	210.00
Project Manager	205.00
Senior Project Specialist	195.00
Project Specialist	190.00
Technical Professional	185.00
Technical Specialist	180.00
Specialist	175.00
Senior Data Technician	165.00
Senior Technical Assistant	155.00
Technical Assistant	145.00
Data/Field Technician	135.00
Survey Crew – 1 Person w/Robotic Equipment	190.00
Additional Survey Crew Member	80.00
SUE Crew (designating) – 1 Person	155.00
Additional (designating) Member	80.00
SUE Crew (locating) – 2 Person	210.00
Additional (locating) Member	80.00
Expert Witness	425.00
Sr. LSRP (NJ Only)	320.00
LSRP (NJ Only)	275.00

Reimbursable Expenses

General Expenses	Cost + 20%
Travel (Hotel, Airfare, Meals)	Cost + 20%
Sub-Consultants/Sub-Contractors	Cost + 20%
Plotting	4.50 / Each
Computer Mylars / Color Plots	100.00 / Each
Photocopies	0.19 / Each
Color Photocopies	2.05 / Each
Document Binding	4.05 / Each
Portable Media	100.00 / Each
Exhibit Lamination (24" x 36" or larger)	90.00 / Each
Initial Digital Signature	300.00
Additional Digital Signatures	75.00 / Each
Mileage Reimbursement*	0.625 / Per Mile
	Field Vehicle 0.70 / Per Mile

*Mileage reimbursement subject to change based upon IRS standard mileage rate.

SCHEDULE C TO ATTACHMENT 2

Vendor Contract Requirements and Exceptions

If the responding Engineering Firm requires specific contract terms or rider, or if the responding Engineering Firm takes exception to any of the contract terms set forth in this RFP, the proposed contract rider or exceptions must be set forth on or attached to this Schedule C.

Proposed Exceptions

20. Indemnification & Hold Harmless -- Covenant in Favor of the College and the County of Morris

The Engineering Firm shall indemnify and hold harmless the County College of Morris, County of Morris, the Board of Chosen Freeholders, their employees, agents & servants from and against losses, penalties, damages, settlements, costs, charges, professional fees (including reasonable attorney's fees) or other expenses or liabilities including the investigation and defense (to the extent that a defense is provided pursuant to Consultant's applicable, required insurance) of any claims, to the extent caused by the performance of the Engineering Firm's work caused by any negligent act or omission of the Engineering Firm, or anyone directly or indirectly employed by them or anyone for whose acts they may be liable (including a claim by an employee of the Engineering Firm) regardless of whether it is caused in part by a party indemnified hereunder.

If any and all claims against County College of Morris, County of Morris, the Board of Chosen Freeholders, their employees, agents and servants by any employees of the Engineering Firm, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under the contract shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the Engineering Firm under workers compensation acts, disability benefit acts or other employee benefit acts.

Section 10

Required Documents

ATTACHMENT 1

RESPONSE TO REQUEST FOR PROPOSAL: MEP, STRUCTURAL, OR CIVIL ENGINEER FOR COUNTY COLLEGE OF MORRIS #RFP2425-56DD

DATE: May 27, 2025

Director of Purchasing
County College of Morris
214 Center Grove Road
Randolph, NJ 07869

Sir/Madam:

Submitted herewith is the proposal of the undersigned to provide MEP, STRUCTURAL, OR CIVIL ENGINEERING SERVICES to the County College of Morris as described in the Request for Proposal dated May 12, 2025, and the General Proposal Requirements and Specifications pages 1 through 10. Transmitted herewith are the following enclosures:

1. Original three copies and a CD or Flash drive (USB Drive) of Proposal including Schedules A, B, and C.
2. N.J. Business Registration Certificate
3. Notarized Non-Collusion Affidavit
4. Notarized Statement of Ownership (Ownership Disclosure)
5. Notarized Employee/Relative Disclosure Form
5. EEO Response Sheet
6. Disclosure of Investment Activities in Iran
7. Certification of Non-Involvement in Prohibited Activities in Russia or Belarus Pursuant to P.L.2022, C.3
8. Engineering Firm Qualification References.
9. Suspension and Debarment Certification.

The Engineering Firm certifies that all of the figures, computations, and additions set forth in this proposal herein have been carefully checked and are accurate in all respects and no claim shall be made as a basis for withdrawal or cancellation of its proposal. This proposal shall remain in effect and will not be withdrawn for any reason for a period of sixty (60) days after receipt and official opening date.

By signing this proposal, the Engineering Firm acknowledges that it has read and agreed to be bound by Exhibit A, (Equal Employment Opportunities) with reference to N.J.S.A. 10:5-31 et seq., N.J.A.C. 17:27.

Dated this 27th day of May, 2025

Colliers Engineering & Design, Inc.
(DBA Maser Consulting)

Name of Firm

Anthony LaRosa, Principal

Please Print Name and Title

101 Crawfords Corner Road, Suite 3400

Street Address of Firm

Signature of Authorized Officer

Holmdel, NJ 07733

State, Zip Code

(732 383 1950)

Telephone Number

(732 383 1984)

Fax Number

(anthony.larosa@collierseng.com)

Email Address

This form must be completed, signed, and returned with your proposal.

ATTACHMENT 2

Title: MEP, Structural, or Civil Engineer for County College of Morris
Request for Proposal #RFP2425-56DD

Insert original and three (3) copies of your proposal and a CD or Flash drive (USB Drive) which must include the following schedules:

Schedule A – Fee Proposal for Basic Services

Schedule B – Hourly Rates by Position for Additional Services

Schedule C – Vendor Contract Requirements and Exceptions

ATTACHMENT 3

**Title: Engineer for County College of Morris
Request for Proposal #RFP2425-56DD**

Insert N.J. Business Registration Certificate



STATE OF NEW JERSEY BUSINESS REGISTRATION CERTIFICATE

Taxpayer Name:	COLLIERS ENGINEERING & DESIGN, INC.
Trade Name:	MASER CONSULTING
Address:	101 CRAWFORDS CORNER ROAD, STE 3400 HOLMDEL, NJ 07733
Certificate Number:	0099895
Effective Date:	October 15, 1985
Date of Issuance:	August 11, 2023

For Office Use Only:
20230811123927691

ATTACHMENT 4

NON-COLLUSION AFFIDAVIT

STATE OF NEW JERSEY

COUNTY OF Morris ss:

I, Anthony LaRosa of the City of Mount Laurel township,
(Name of Authorized Officer)

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

I am Principal of Colliers Engineering & Design, Inc. (DBA Maser Consulting)
(Title or Position) (Name of Firm)

the Engineering Firm making the proposal for **Request for Proposal #RFP2425-56DD** and that I executed the said proposal with full authority so to do; that said Engineering Firm 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 proposal; and that all statements contained in said proposal and in this affidavit are true and correct, and made with full knowledge that the Board of Trustees of County College of Morris relies upon the truth of the statements contained in said proposal 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 the award of this contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee.

Colliers Engineering & Design, Inc.
(DBA Maser Consulting)

Name of Firm


Signature of Authorized Officer
Anthony LaRosa, Principal

Subscribed and sworn to before me
this 27th day of May, 2025

Affix Notary Seal:


(Notary Public's Signature)

My commission expires: 10/12/27

NANCY HEFFERNAN
NOTARY PUBLIC
STATE OF NEW JERSEY
ID # 50069915
MY COMMISSION EXPIRES OCT. 12, 2027



This form must be completed, signed, and returned with your proposal.

ATTACHMENT 5
STATEMENT OF OWNERSHIP
DISCLOSURE

PURSUANT TO N.J.S.A. 52:25-24.2, ALL PARTIES ENTERING INTO A CONTRACT WITH COUNTY COLLEGE OF MORRIS ARE REQUIRED TO PROVIDE A STATEMENT OF OWNERSHIP.

Colliers Engineering & Design, Inc. (DBA Maser Consulting)

VENDOR NAME

- | | YES | NO |
|---|--------------------------|-------------------------------------|
| 1. Vendor is a Non-Profit Entity ; and therefore, no disclosure is necessary. | ☐ | ☒ |
| 2. Vendor is a Sole Proprietor ; and therefore, no other disclosure is necessary. A Sole Proprietor is a person who owns an unincorporated business by an individual. A single member LLC is <u>not</u> Sole Proprietor. | ☐ | ☒ |
| 3. Vendor is a corporation, partnership, or LLC with individuals, partners, members, stockholders, corporations, partnerships, or LLCs owning a 10% or greater interest; and therefore, disclosure is necessary. | ☐ | ☐ |

See attachment.

*If you answered **YES** to Question 3, you must disclose the information requested in the space below:

- (a) the names and addresses of all stockholders in the corporation who own 10% or more of its stock, of any class;
 - (b) all individual partners in the partnership who own a 10% or greater interest therein; or,
 - (c) all members in the limited liability company who own a 10% or greater interest therein. The disclosure(s) shall be continued until the names and addresses of every non-corporate stockholder, individual partner, and/or member who own a 10% or greater interest has been identified.
- Attach additional sheets as necessary.**

Entity Name (if applicable)	Individual Name and Title (if applicable)	Home / Business Address

PUBLICLY TRADED ENTITIES

In lieu of completing this form, a Vendor with any direct or indirect parent entity which is publicly traded, may submit the name and address of each publicly traded entity and the name and address of each person that holds a 10% or greater beneficial interest in the publicly traded entity as of the last annual filing with the federal Securities and Exchange Commission or the foreign equivalent, and, if there is any person that holds a 10% or greater beneficial interest, also shall submit links to the websites containing the last annual filing with the federal Securities and Exchange Commission or the foreign equivalent and the relevant page numbers of the filings that contain the information on each person that holds a 10% or greater beneficial interest. **Attach additional sheets as necessary.**

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 acknowledge that the Board of Trustees of County College of Morris 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 College to notify the College in writing of any changes to the answers and 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 County College of Morris and that the College at its option may declare any contract(s) resulting from this certification void and unenforceable.

Anthony LaRosa

AUTHORIZED AGENT – PRINT NAME

SIGNATURE

Principal

TITLE

May 27, 2025

DATE

Colliers Engineering & Design, Inc. (DBA Maser Consulting)

VENDOR NAME

101 Crawford's Corner Road, Suite 3400, Holmdel, NJ 07733

VENDOR ADDRESS

4/3/23 (DPP REV 9.21.22)

**Colliers Engineering & Design
Ownership Disclosure Form
Attachment**

Colliers Engineering & Design, Inc. is a corporation with a corporate parent owning 10% or greater interest and therefore disclosure is necessary. However, the only parent entity that owns a 10% or greater interest is a publicly traded company.

The name and address of the publicly traded entity is:

The Colliers Group, Inc.
666 Fifth Ave
New York, NY 10103

The link to the website containing the last annual filing is:

<https://www.sedarplus.ca/csa-party/records/document.html?id=556c4b91b377614d2d892afa54b6a5c48f7587af3cb6b51b4b488363e028dc7d>

The relevant page number of the filing containing the information on each person holding a 10% or greater beneficial interest is page 46 of the document.

ATTACHMENT 6

EMPLOYEE/RELATIVE DISCLOSURE FORM

This form is to be completed by all bidders seeking the award of any Contract. No bidder shall be awarded any Contract, nor shall any agreement be entered into for the performance of any work or the furnishing of any materials or supplies, the cost of which is to be paid with or out of any public funds by the County College of Morris, unless with delivery of the bid, the bidder has completed and submitted the statements below.

The undersigned affiant, being duly sworn, states under oath that the answers completed below are truthful.

1. State if bidder or any officer or employee of bidder is employed by the County College of Morris? Yes _____ No X
If so, please indicate name and position held at the County College of Morris:

2. State if any shareholder who owns ten percent or more of your stock (if a corporation) or partner who holds ten percent or more of an interest (if a partnership) is employed by the County College of Morris. Yes _____ No X
If so, please indicate name and position held at the County College of Morris:

3. State, if you, or any shareholder, who owns ten percent or more of your stock (if a corporation) or any partner who owns ten percent or more of an interest (if a partnership) has any immediate relative employed by the County College of Morris.
Yes _____ No X
If so, please indicate their names and the nature of the relationship (e.g., spouse, sibling, parent, grandparent child, grandchild, in-law)

BY: Colliers Engineering & Design, Inc. (DBA Maser Consulting)

Name of Contractor

101 Crawfords Corner Road, Suite 3400 Holmdel, NJ 07733

Address

City

State

Zip

BIDDER/AFFIANT:

Signature

Anthony LaRosa, Principal

Print name and title below signature

2000 Midlantic Drive, Suite 100

Address Mount Laurel, NJ 08054

Sworn and subscribed to me on
this 27th day
of May, 2025

[Signature]
Notary Public of New Jersey



NANCY HEFFERNAN
NOTARY PUBLIC
STATE OF NEW JERSEY
ID # 50069915
MY COMMISSION EXPIRES OCT. 12, 2027

ATTACHMENT 7
EEO RESPONSE SHEET

If awarded a contract, the successful Vendor will be required to comply with the requirements of P.L. 1975, C.127, (N.J.A.C. 17:27). Within seven (7) days after receipt of the notification of intent to award the contract or receipt of the contract, whichever is sooner, Vendor shall present one of the following to the Purchasing Agent:

1. A photocopy of a valid letter from the U.S. Department of Labor that the contractor has an existing federally-approved or sanctioned Affirmative Action Plan (good for one year from the date of the letter).
2. A photocopy of a Certificate of Employee Information Report approval, issued in accordance with N.J.A.C. 17:27-4; or
3. If Vendor has neither of the above, CCM will provide the successful Vendor with an A.A.302 Employee Information Report Form which is to be completed in accordance with N.J.A.C. 17:27.

NO FIRM MAY BE ISSUED A CONTRACT UNLESS IT COMPLIES WITH THE
AFFIRMATIVE ACTION REGULATIONS OF P.L. 1975, C.127.

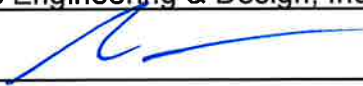
The following questions must be answered by all Vendors:

1. Do you have a federally-approved or sanctioned Affirmative Action Program?
Yes _____ No X If yes, please submit a copy of such approval.
2. Do you have a Certificate of Employee Information Report Approval?
Yes X No _____ If yes, please submit a copy of such certificate.

The undersigned contractor certifies that he is aware of the commitment to comply with the requirements of P.L. 1975, C.127 (N.J.S.A. 17:27) and agrees to furnish the required documentation pursuant to the law.

I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT AND AUTHORIZED BY THE FOLLOWING SIGNATURE FOR COMPLIANCE AS SPECIFIED IF AWARDED THIS CONTRACT.

FIRM NAME: Colliers Engineering & Design, Inc. (DBA Maser Consulting)

SIGNATURE: 

TITLE: Principal

DATE: May 27, 2025

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-JUL-2022** to **15-JUL-2025**

COLLIERS ENGINEERING & DESIGN INC.
101 CRAWFORDS CORNER RD STE 3400
HOLMDEL NJ 07733



Elizabeth Maher Muoio

ELIZABETH MAHER MUOIO
State Treasurer

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 SERVICE 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 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 AA302 (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).

The contractor and its subcontractors shall furnish such reports or other documents to the Division of Purchase and 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 and Property, CCAU, EEO Monitoring Program for conducting a compliance investigation pursuant to N.J.A.C. 17:27-1 et seq.

Vendor Signature: *K Zhang*

Date: **12/05/2023**

If awarded a contract, Vendor shall be required to comply with the requirements of N.J.S.A. 10:5-31 et seq. and N.J.A.C. 17:27 as set forth below.

(Revised April 2010)

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

GOODS, PROFESSIONAL SERVICE AND GENERAL SERVICE 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 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 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 to 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

Employee Information Report Form AA302 (electronically provided by the Division and distributed to the public agency through the Division's website at www.state.nj.us/treasury/contract_compliance)

The contractor and its subcontractor shall furnish such reports or other documents to the Division of Public Contracts Equal Employment Opportunity Compliance 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 Public Contract Equal Employment Opportunity Compliance for conducting a compliance investigation pursuant to Subchapter 10 of the Administrative Code at N.J.A.C.17:27.

ATTACHMENT 8
COUNTY COLLEGE OF MORRIS
DISCLOSURE OF INVESTMENT ACTIVITIES IN IRAN FORM

RFP SOLICITATION # AND TITLE: RFP#2425-56DD MEP, Structural, or Civil Engineers for County College of Morris

VENDOR NAME: Colliers Engineering & Design, Inc. (DBA Maser Consulting)

Pursuant to N.J.S.A. 52:32-57, et seq. (P.L. 2012, c.25 and P.L. 2021, c.4) any person or entity that submits a bid or proposal or otherwise proposes to enter into or renew a contract must certify that neither the person nor entity, nor any of its parents, subsidiaries, or affiliates, is identified on the New Jersey Department of the Treasury's Chapter 25 List as a person or entity engaged in investment activities in Iran. The Chapter 25 list is found on the Division's website at <https://www.state.nj.us/treasury/purchase/pdf/Chapter25List.pdf>. Vendors/Bidders must review this list prior to completing the below certification. If the Department of Treasury finds a person or entity to be in violation of the 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 party.

CHECK THE APPROPRIATE BOX



I certify, pursuant to N.J.S.A. 52:32-57, et seq. (P.L. 2012, c.25 and P.L. 2021, c.4), that neither the Vendor/Bidder listed above nor any of its parents, subsidiaries, or affiliates is listed on the New Jersey Department of the Treasury's Chapter 25 List of entities determined to be engaged in prohibited activities in Iran.

OR



I am unable to certify as above because the Vendor/Bidder and/or one or more of its parents, subsidiaries, or affiliates is listed on the New Jersey Department of the Treasury's Chapter 25 List. I will provide a detailed, accurate and precise description of the activities of the Vendor/Bidder, or one of its parents, subsidiaries or affiliates, has engaged in regarding investment activities in Iran by completing the information requested below.

Entity Engaged in Investment Activities
Relationship to Vendor/ Bidder
Description of Activities

Duration of Engagement
Anticipated Cessation Date

**Attach Additional Sheets If Necessary*

CERTIFICATION

I, the undersigned, certify that I am authorized to execute this certification on behalf of the Vendor, that the foregoing information and any attachments hereto, to the best of my knowledge are true and complete. I acknowledge that the State of New Jersey is relying on the information contained herein, and that the Vendor is under a continuing obligation from the date of this certification through the completion of any contract(s) with the State to notify the State 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. If I do so, I may be subject to criminal prosecution under the law, and it will constitute a material breach of my contract(s) with the State, permitting the State to declare any contract(s) resulting from this certification void and unenforceable.



Signature

May 27, 2025

Date

Anthony LaRosa, Principal
Print Name and Title

ATTACHMENT 9
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 Anthony LaRosa, Principal _____ Print Name and Title of Vendor's Authorized Representative Colliers Engineering & Design, Inc. (DBA Maser Consulting) _____ Vendor's Name 101 Crawfords Corner Road, Suite 3400 _____ Vendor's Address (Street Address) Holmdel, NJ 07733 _____ Vendor's Address (City/State/Zip Code)	 _____ May 27, 2025 _____ Date 22-2651610 _____ Vendor's FEIN 732 383 1950 _____ Vendor's Phone Number 732 383 1984 _____ Vendor's Fax Number anthony.larosa@collierseng.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).

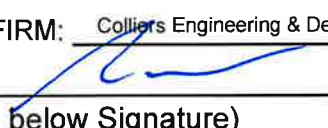
ATTACHMENT 10

**COUNTY COLLEGE OF MORRIS, RANDOLPH, NJ
BID B1920-57DD**

**RFP TITLE: Engineer for County College of Morris
LIST OF REFERENCES**

For purposes of verifying the experience and qualifications of the firm to perform the contract work, the firm certifies the accuracy of this list of **at least three** contracts completed by the firm **within the last two (2) years** which included the delivery/installation of units similar to the work proposed to be performed for the County College of Morris.

NAME OF ENGINEERING FIRM: Colliers Engineering & Design, Inc. (DBA Maser Consulting)

By: 
(Print Name and Title below Signature)

Anthony LaRosa, Principal

1. Name and Address : James Calamia, Asst. VP Facilities
Ocean County College
1 College Drive, Toms River, NJ 08754

Telephone No.: Office Phone: 732 255 0400 ext. 2066
Cell Phone: 848 224 3312

2. Name and Address of Owner: Bradley Kaye, Project Manager
Princeton University
PO Box 430, Princeton, NJ 08544

Telephone No.: Cell Phone: 267 361 4427

3. Name and Address of Owner: Mike Naparolo, Director of Facilities
Brookdale Community College
765 Newman Springs Road, Gorman Hall, Lincroft, NJ 00738

Telephone No.: Office Phone: 732 224 2395

ATTACHMENT 11

COUNTY COLLEGE OF MORRIS

SUSPENSION AND DEBARMENT CERTIFICATION

Vendor/Bidder/Contractor certifies that neither it nor its principals are debarred, suspended, proposed for debarment or declared ineligible by any Federal, or state agency.

Company Name Colliers Engineering & Design, Inc. (DBA Maser Consulting)

Address 101 Crawfords Corner Road, Suite 3400

City Holmdel State New Jersey 07733

Telephone 732 383 1950 Fax 732 383 1984

Email Address anthony.larosa@collierseng.com

Authorized Signature 

Printed Name Anthony LaRosa, Principal

Date May 27, 2025

This form must be returned with your bid/proposal



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

2/18/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Marsh & McLennan Agency LLC 250 Pehle Avenue, Suite 400 Saddle Brook NJ 07663	CONTACT NAME: PHONE (A/C, No. Ext): FAX (A/C, No): E-MAIL ADDRESS: jennifer.juarez@marshmma.com
INSURED Colliers Engineering & Design Inc 101 Crawfords Corner Rd, Suite 3400 Holmdel NJ 07733	INSURER(S) AFFORDING COVERAGE INSURER A: National Union Fire Ins Co PittsburghPA INSURER B: Travelers Property Casualty Co of Amer INSURER C: New Hampshire Insurance Company INSURER D: Navigators Insurance Company INSURER E: INSURER F:

COVERAGES**CERTIFICATE NUMBER:** 1302756798**REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR ☒ Contractual Liab ☒ XCU GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☒ PRO-JECT ☐ LOC OTHER:			9925559	3/1/2025	3/1/2026	EACH OCCURRENCE \$ 5,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 25,000 PERSONAL & ADV INJURY \$ 5,000,000 GENERAL AGGREGATE \$ 10,000,000 PRODUCTS - COMP/OP AGG \$ 10,000,000 \$
A	☒ AUTOMOBILE LIABILITY ☒ ANY AUTO ☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☒ HIRED AUTOS ONLY ☒ NON-OWNED AUTOS ONLY			4773685	3/1/2025	3/1/2026	COMBINED SINGLE LIMIT (Ea accident) \$ 5,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
B	☒ UMBRELLA LIAB ☒ OCCUR ☐ EXCESS LIAB ☐ CLAIMS-MADE DED ☒ RETENTION \$ 0			CUP1T66744425NF	3/1/2025	3/1/2026	EACH OCCURRENCE \$ 10,000,000 AGGREGATE \$ 10,000,000 \$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N ☒ N	N/A	66656736	3/1/2025	3/1/2026	☒ PER STATUTE ☐ OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	Excess Liability			NY25MXEZ07LHXIV	3/1/2025	3/1/2026	\$15,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Evidence of Insurance

CERTIFICATE HOLDER**CANCELLATION**

Colliers Engineering & Design Inc
101 Crawfords Corner Rd
Suite 3400
Holmdel NJ 07733

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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*NAMED INSUREDS INCLUDE:

Colliers Engineering & Design, Architecture, Landscape Architecture, Surveying CT P.C.

Colliers Engineering & Design/Maser Consulting Inc.

Colliers Land Services, LLC

Colliers Engineering & Design CT, P.C.

CED Architecture Inc.

Phase Zero Design Corp.



Colliers Engineering & Design is a trusted provider of multi-discipline engineering, design and consulting services providing customized solutions for public and private clients through a network of offices nationwide.

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1 877 627 3772



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