



Statement of Qualifications for:

# Township of Union Board of Education Civil Engineering Services

Submitted by:  
 Maser Consulting P.A.  
 331 Newman Springs Road, Suite 203  
 Red Bank, NJ 07701  
 Phone: 732.383.1950

June 5, 2015 | Proposal # 15001062p





Engineers  
Planners  
Surveyors  
Landscape Architects  
Environmental Scientists

**Corporate Headquarters**  
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June 2, 2015

Mr. James J. Damato  
General Council  
Township of Union Board of Education  
2369 Morris Avenue  
Union, NJ 07083

RE: Response to Request for Proposal  
Civil Engineering Services  
MC Proposal No. 15001062P

Dear Mr. Damato:

Enclosed please find one (1) original copy of Maser Consulting P.A.'s qualifications for Engineering Services. The firm has been providing multi-disciplined services to both the public and private sectors since 1984.

Our experience includes providing professional engineering and related services to higher education facilities, local school districts, boards of education, architectural firms and state agencies for educational projects. We are able to provide full site/civil engineering services including lighting, landscaping, traffic, stormwater, wastewater and other ancillary public engineering services.

Maser Consulting proposes to serve the Board with a designated Project Manager, **Joseph R. Venezia, P.E., P.P., C.M.E., C.P.W.M.** who has extensive experience in municipal engineering, board of education capital improvements, civil engineering, construction administration and inspection services. Mr. Venezia will be assisted by **Paul T. Calabrese, PE, PP, CME, CPWM.**

Maser Consulting P.A. appreciates the opportunity to submit our qualifications and looks forward to working with the Township of Union Board of Education. If you have any questions or require additional information, please call me and visit us at [www.maserconsulting.com](http://www.maserconsulting.com).

Very truly yours,

MASER CONSULTING P.A.

A handwritten signature in black ink, appearing to read 'Joseph R. Venezia', written over a horizontal line.

Joseph R. Venezia, P.E., P.P., C.M.E.  
Senior Associate

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**Tab 1**

## CORE DISCIPLINES

Bridge Engineering  
 Civil/Site Engineering  
 Construction Inspection & Administration  
 Construction Quality Control Services  
 Cultural Resource Services  
 Dam Engineering  
 Ecological Services  
 Energy Services  
 Environmental Services  
 Geotechnical Engineering  
 GIS/Asset Management Services  
 Grants & Funding Services  
 Hydrogeologic Services  
 Landscape Architecture Services  
 Municipal Services  
 Planning Services  
 Recreational/Sports Services  
 Stormwater Management Services  
 Structural Engineering  
 Survey/Geospatial Services  
 Telecommunication Services  
 Transportation/Traffic Engineering  
 Waterfront Engineering  
 Water/Wastewater Engineering

## OFFICE LOCATIONS

### New Jersey

#### Headquarters: Red Bank

Clinton | Hamilton | Mt. Laurel | Marmora  
Mt. Arlington

### New York

Chestnut Ridge | Newburgh | Albany  
Hawthorne

### Pennsylvania

Bethlehem | Exton | Philadelphia

### Virginia

Sterling | Norfolk

### Maryland

Columbia

### Florida

Tampa

### New Mexico

Albuquerque



Maser Consulting is a privately owned, multi-disciplined, engineering firm with a unique balance of public and private sector experience. Headquartered in Red Bank, NJ, Richard M. Maser, PE, PP, CME, President and Chief Executive Officer, established Maser Consulting in 1984. Over its history, the firm has consistently been recognized nationally by Engineering News Record as one of its *Top 500 Firms* and by NJBIZ Magazine as one of *New Jersey's Finest*.

Maser Consulting has 18 offices and employs over 500 professionals nationwide that include licensed engineers, planners, surveyors, landscape architects, and environmental scientists.. These proactive and responsive professionals provide our clients with, clear communication and coordination, cost-effective and efficient leadership, advanced technologies, and a comprehensive approach throughout the entire course of a project.

We understand the need to provide a successful educational environment for the communities we serve. The firm works in conjunction with the administration, architects and the state funding agencies to support the needs of the educational community involving all aspects of new construction, rehabilitation and expansion of existing facilities from conception to completion.

### Services Include

- Site Feasibility Investigation
- Surveying Services
- Environmental Assessments & Site Investigation
- Geotechnical Engineering & Soils Analysis
- Wetlands Investigation
- Utilities Investigation & Analysis
- Regulatory Permitting
- Hydrogeologic Services
- Hazard Materials Investigation
- Stormwater Management Plans & Design
- Construction Administration & Inspection
- Traffic Engineering Services
- GIS Services

Whatever the extent of your project, include Maser Consulting on your team for exceptional value and outstanding results.



### MASER CONSULTING CONTACT:

Joseph R. Venezia, P.E., P.P., C.M.E., CPWM  
Senior Project Manager/Associate  
331 Newman Springs Road, Suite 203  
Red Bank, NJ 07701

Email: [jvenezia@maserconsulting.com](mailto:jvenezia@maserconsulting.com)  
Office: 732.383.1950 Ext. 3454  
Cell: 732.598.6235  
Fax: 732.383.1984



Maser Consulting has a strong track record of collaborating with numerous educational facilities across the state of New Jersey, providing engineering services that include site/civil, environmental, geotechnical, surveying, stormwater management, regulatory compliance, and construction administration and inspection. In addition to our three decades of experience, it is our personal service that sets us apart. Getting to know the school district and its vision helps Maser Consulting establish a strong foundation for upcoming projects and future development.

### Why Maser Consulting?

- Collaboration with school administration, architects, and state-funding agencies to support the needs of the educational community
- Design of facilities and systems that are functional, aesthetically pleasing, and cost-efficient to maintain
- Cost-saving measures and economic conditions always play a vital role in our design process
- Our professionals live and work in your communities and understand the needs of your municipality
- Knowledge of local requirements for design and permitting agencies in order to move your projects forward
- An average of 500 experienced and licensed professionals under one organization for a single source solution to every site development need, from planning to construction
- Project Managers who are available to accommodate meetings and responsive to your concerns, with years of experience in providing engineering, technical and administrative expertise

Tab 2

# Maser Consulting P.A.



## Civil & Site Engineering

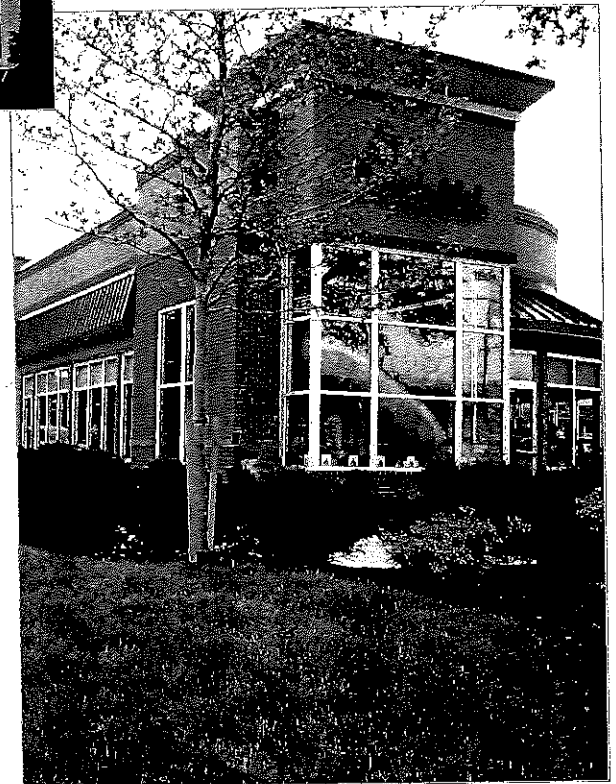
Maser Consulting engages with our clients as a strategic partner providing complete civil and site engineering services to both public and private clients for uses including residential, affordable housing, commercial office, retail, financial, educational, recreational, restaurant, healthcare, landfill, energy, industrial, warehouse and governmental. This partnership begins with comprehensive site feasibility evaluations as part of the due diligence process to identify potential pitfalls and implement strategies to overcome them. We have extensive experience in traditional development as well as mixed use, neo-traditional, redevelopment, urban and brownfield projects.

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



## Services

- 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





**JOSEPH R. VENEZIA, PE, PP, CME, CPWM**  
Senior Associate/Project Manager/Municipal

EXPERIENCE

EDUCATION

- B.S. Civil Engineering,  
Rutgers University, 1998

PROFESSIONAL REGISTRATIONS

- Professional Engineer (PE)  
New Jersey, Pennsylvania
- Professional Planner (PP)  
New Jersey
- Certified Municipal Engineer  
(CME) New Jersey
- Certified Public Works  
Manager (CPWM)

PROFESSIONAL AFFILIATIONS

- American Society of Civil  
Engineers

CURRENT APPOINTMENTS

- Township of Weehawken,  
Township Engineer
- Township of Hillside, Planning  
Board Engineer
- Township of Union, Township  
Engineer, Planning Board  
Engineer, Zoning Board  
Engineer

Mr. Venezia has extensive experience in municipal engineering, civil engineering, and construction administration and inspection. He has reviewed subdivision and site plans for various planning and zoning boards. Additionally, he has been involved in all aspects of municipal engineering for clients including inspection of private development; attending various agency meetings; inspection of contract administration of various public contracts; investigating and answering citizen and municipal officials' inquiries; as well as design of plans and specifications for capital improvement projects including roadways, water mains, sanitary sewer, and drainage.

Mr. Venezia has served as the appointed Town Engineer for West New York and Board Engineer for Matawan Borough, Borough of Highlands, and the Township of Berkeley Heights. He has also been involved in all aspects of municipal engineering for a number of clients including the Borough of Roselle, Borough of Highlands, Township of Berkeley Heights, and the Borough of Middlesex and has directed public works departments.

PROJECTS

**West Brook Flood Control Project- Phase IV**  
**Borough of Roselle, Union County, NJ**

Provided a portion of the design, project management, construction administration, and permitting and bidding assistance for this \$10 million project to widen and stabilize the stream banks to control flooding affecting three towns. This project was funded through a \$5 million NJDEP grant and matching funds from Union County.

**Four Lakes Rehabilitation Project**  
**Various Locations, Union County, NJ**

Provided project management oversight for the rehabilitation of four under-utilized county lakes spanning five towns. This \$12 million project included developing multiple alternatives and cost scenarios to restore the health and long-term sustainable solutions for each unique lake. Services included survey; wetland delineations; substantial landscaping and bank stabilization measures; preparation of construction documents to construct improvements including sediment dredging; hydro-raking; outflow repairs; circulation improvement; bank stabilization; installation of aerators and sediment traps; restocking fish; and the provision of recreational access points.

**Front Street Park Synthetic Field**  
**City of Elizabeth, Union County, NJ**

Design of two multi-use synthetic turf fields including grading, drainage, and associated site amenities. Involved coordination of NJDEP requirements due to prior environmental remediation work associated with the site.



**Improvements to Three Culverts**

**Union Township and Springfield Township, Union County, NJ**

Provided project management and construction administration services for the replacement of three 8-foot wide culverts crossing underneath three of the county's busiest main access roadways. Culvert replacement costs ranged from \$300,000 to \$600,000 at each location. Partially funded through NJDOT grants, this project required substantial coordination with utility companies, local and county police, school districts, and emergency personnel to accommodate detours and changes to traffic patterns during expedited construction periods.

**Golf Course Redevelopment**

**Borough of Roselle, Union County, NJ**

Provided project management determining off-site infrastructure impacts and Open Space provisions including traffic impact studies and sanitary sewer for the proposed redeveloper's plan to convert a 60-acre golf course into a housing development.

**2011 Road Program**

**Town of West New York, Hudson County, NJ**

Provided design, permitting, grant coordination, and construction inspection services for this \$1.2 million project, funded by NJDOT, HUD, and Hudson County. Improvements to 1.5 miles along twelve roadways throughout the town included milling, repaving, new curbing, speed humps, and ADA ramps. Significant traffic control and public safety measures were taken, including coordination with businesses in keeping storefronts access open.

**66th Street Stairway Improvements**

**Town of West New York, Hudson County, NJ**

Provided the site design and construction inspection to a unique, multi-tiered pedestrian stairway connecting neighborhoods within the municipal R.O.W. utilizing grant funding. Replaced steps with granite, new railing, lighting upgrades, and a decorative archway was installed over the steps. The dead-end roadway was repaved utilizing colored imprinted asphalt and new Belgian block curbs to support the unique character of the area.

**Roadway Evaluation Programs**

**Township of Union and Borough of Roselle, Union County, NJ**

Provided evaluation of entire municipal roadway systems in cooperation with local Public Works Departments to develop a systematic ranking of roads by condition and prepared order of magnitude cost estimates to provide an infrastructure planning tool for the governing body.

**Flood Control Project**

**Township of Union, Union County, NJ**

Assisted in coordinating funding and various agency approvals for \$2.3 million low flood wall and earthen dike project and provided inspection and contract administration services.

**Rogers and Snyder Avenue Improvements**

**Township of Berkeley Heights, Union County, NJ**

Design and inspection coordination for \$560,000 NJDOT funded projects.

**Fairleigh Dickenson University Synthetic Turf Field**

**Teaneck Township, Bergen County, NJ**

Prepared engineering design plans and specifications for new collegiate-sized baseball field. Provided grading and drainage design.

**Harrison Field Improvements**

**Borough of Roseland, Essex County, NJ**

Prepared engineering design plans and specifications for re-grading of existing baseball/soccer field to address drainage issues. Provided irrigation system for the field.



**Johnston Drive Phase IV Improvements  
Borough of Watchung, Somerset County, NJ**

Reconstruction and roadway widening NJDOT funded project which includes the installation of curbs and drainage facilities.

**Jerome and Howard Avenue Rehabilitation  
Borough of South Bound Brook, Somerset County, NJ**

Design of roadway rehabilitation project including upgrade of accessible ramps in accordance with ADA requirements.



**PAUL T. CALABRESE, PE, PP, CME,  
CPWM**

Senior Associate/Department Manager Civil/Site

**EDUCATION**

- M.B.A. Business Administration, Rutgers Business School, 2002
- B.S. Civil Engineering, Rutgers College of Engineering, 1998

**PROFESSIONAL REGISTRATIONS**

- Professional Engineer (PE) New Jersey
- Professional Planner (PP) New Jersey
- Certified Municipal Engineer (CME) New Jersey
- Certified Public Works Manager (CPWM)

**EXPERIENCE**

Mr. Calabrese serves as a Department Manager specializing in cost estimating and special large-scale projects, with waterfront engineering experience. His responsibilities include site design and calculations, preparation of plans/specifications, project funding applications, construction supervision, and inspection for a wide variety of public projects.

Mr. Calabrese has extensive experience in the public sector of site development. His public design experience encompasses all aspects of public improvement/public works consulting, including the provision of full engineering responsibilities for water, sewer, roads, drainage, athletic and recreational complexes, dredging, planning/site studies, site improvement projects, permitting compliance, and design/construction management projects. He also has extensive construction and estimating experience and has coordinated and supervised projects providing various professional services.

**PROJECTS**

**Peninsula at Bayonne Harbor (Berth S-1)  
City of Bayonne, Hudson County, NJ**

Site Design Engineer for the project, including 1,200 SF of steel bulkhead, concrete platform improvements, pavement improvements, and fencing.

**Municipal Bulkhead Expansion QA/QC  
Keyport Borough, Monmouth County, NJ**

Project Engineer for new concrete paver promenade, new composite bulkhead, drainage improvements, site lighting, and paved roadway. Reviewed plans, wrote project specifications, and coordinated project with NJDEP.

**Proposed Commercial Boat Slips at Belmar Marina  
Belmar Borough, Monmouth County, NJ**

Project Manager for the design of new timber mooring boat slips, composite lumber boardwalk, and boat utilities.

**Keyport Waterfront  
Keyport Borough, Monmouth County, NJ**

Project Manager for design and construction administration for new bulkhead, fishing pier, waterfront structures, and waterfront walkway site improvements to meet 100-year flood requirements. Coordinated the project with NJDEP Coastal Engineering.



**John J. Franklin Public Works Complex  
City of Bayonne, Hudson County, NJ**

Civil Engineer for a new state-of-the-art public works complex in Bayonne. The complex included an administration building, vehicle repair garage, truck wash, vehicle storage garages, recycling center, police impound yard and other DPW facilities.

**Monmouth County Reclamation Complex Vehicle Wash Facility  
Tinton Falls Borough, Monmouth County, NJ**

Project Manager for a new automatic and manual bay truck wash facility for Monmouth County. Facility included an automatic bay operated with a keycard system, office, and a manual bay for washing large equipment.

**Cape Liberty Cruise Port  
City of Bayonne, Hudson County, NJ**

Project Engineer for development of New York Harbor's largest passenger ship terminal.

**Somerset Air Service Fuel Storage Replacement  
Bedminster Township, Somerset County, NJ**

Project Engineer for preparation of a concept plan and cost estimate for the replacement of the fuel storage and dispensing systems that currently serve the Somerset Air Service airport, which is situated on a 200 acre tract of land in Bedminster Township and contains a runway, taxiway, hangars, a fuel storage and dispensing system, an office building for administrative functions, driveways, and parking areas. Somerset Air Service desired to replace its fuel storage and dispensing systems and wanted to seek a State airport safety improvement grant to fund this improvement. The following improvements were proposed: the removal and disposal of the existing fuel storage and disposal system including the underground storage tanks, supply lines, and dispensers; the construction of new 12,000 gallon above ground storage tanks and dispensers for the airport's Jet A and Aviation gas; and the construction of canopies over each of the above ground storage tanks and dispensers. The prepared concept plan and cost estimate for the airport improvements were the basis for the grant application filed with the NJDOT.

**Lakewood Airport New Generator  
Lakewood Township, Ocean County, NJ**

Project Manager for the design and construction management for a new diesel generator to service the Lakewood Airports emergency needs. The new 80 kW diesel generator provided backup power for the airport beacon as well as additional outlets for power to be utilized in an emergency event.

**Belmar Marina River Walk  
Belmar Borough, Monmouth County, NJ**

Project Engineer for the design of a concrete paved river walk along the bulkhead at the marina. Design included drainage, concrete bulkhead cap, curbing, pavers, and walkway lighting.

**New Jersey Municipality Design Projects  
Various locations, NJ**

Project Manager for numerous engineering design projects for the various municipalities, including local road improvements/reconstruction and drainage improvements, as well as the New Jersey Department of Transportation Trust Fund Projects.

**Athletic Complex Construction Design & Oversight Projects  
Various locations, NJ**

Managed design and oversight of the construction of athletic complexes, including site layout and grading, irrigation systems and wells, building facilities, and athletic fields.

**Sanitary Sewer & Water System Construction Design & Oversight Projects  
Various locations, NJ**

Managed design and oversight of the construction of sanitary sewer and water systems, including all required permitting, design of systems, and design of pumping stations.



**Marine Construction Design & Oversight Projects**

**Various locations, NJ**

Managed design and oversight of the construction of marine facilities, including floating and fixed docks, fueling systems, water systems, bulkheads, and dredging.

**Sawmill Tract Bicycle Trail & Bridges**

**Brick Township, Ocean County, NJ**

Responsible for a 1.9-mile quarry dust bicycle trail, gravel parking lot, wood bridges over environmentally sensitive areas, and trailside amenities such as picnic tables, benches, bicycle racks, and garbage receptacles. Wooden bridges and drainage pipes were incorporated into the design to cross through wetland corridors. The bridges and approach ramps were designed to be barrier-free. Received a Design Excellence Award from NJRPA in 2003 for this project.

**Airport Tract Bicycle Trail & Bridges, Phase I**

**Brick Township, Ocean County, NJ**

Responsible for a 1.4-mile quarry dust bicycle trail with gravel parking lots and trailside amenities that included picnic tables, benches, covered tables, bicycle racks, and garbage receptacles. Wooden bridges and drainage pipes were incorporated into the design to cross through wetland corridors. The bridges and approach ramps were designed to be barrier-free.

**Phase II Partial Closure, Monmouth County Landfill**

**Tinton Falls Borough, Monmouth County, NJ**

Project Engineer for the General Contractor for the permanent closure of 70 acres of landfill and the temporary closure of 26 acres of landfill. The permanent closure consisted of non-woven geotextile gas venting layer, 50 mil LLDPE line, double composite drainage net, a sand drainage layer, and a topsoil layer. Other work included installing a gas collection system, leachate line rehabilitation, and storm drainage work.

**Closure of Haverstraw Sanitary Landfill**

**Town of Haverstraw, Rockland County, NY**

Project Manager for the General Contractor on the closure of a 50-acre landfill. Work included relocation of solid waste, dewatering, construction of a clay cap barrier layer, HDPE geomembrane cut-off wall, two leachate pumping stations, an HDPE leachate pipe collection system, and an HDPE liner system.



Tab 3

# Rutgers University – Camden Student Residence

Camden City, Camden County, NJ



## Project Highlights

**Client:**  
Michaels Organization  
3 East Stow Road  
Marlton, NJ 08053

**Contact:**  
Mr. Mike Kruse

**Phone:**  
856.355.1528

**Construction Cost:**  
\$30,000,000

**Completion:**  
2012

## Project Description

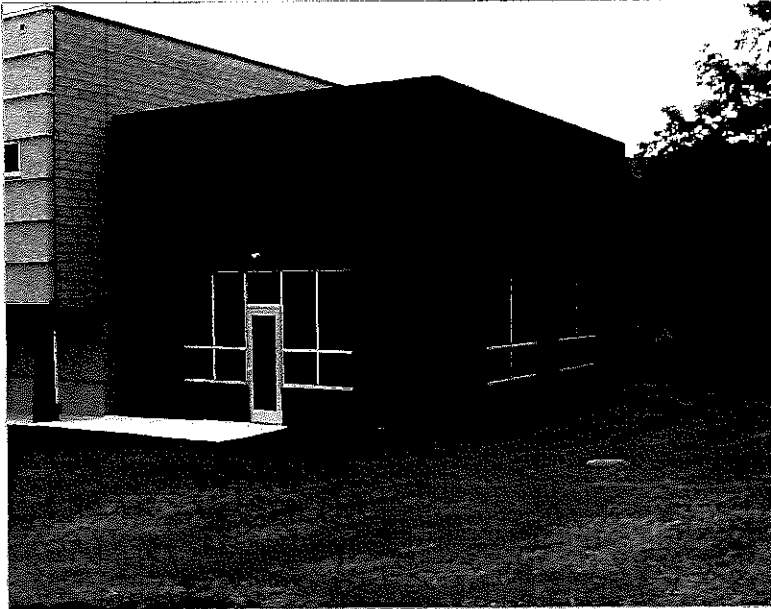
The project consisted of a 12-story high-rise structure and a 3-story mixed-use low-rise building. The high rise footprint is approximately 9,000 SF and will be used as student housing, residential support, and amenities. The low-rise footprint is approximately 8,000 SF and will be used as retail space. This project is situated in an urban area and was challenged by several previous cycles of redevelopment. These conditions required complete integration of all our services and close coordination between the site, geotechnical, and environmental departments.

## Services Provided

- Civil/Site Engineering
- Land Survey
- Geotechnical Engineering
- Environmental (Phase I, II, & III)
- Landscape Architecture
- Construction Quality Control & Material Testing



## Warren County Community College – Cafeteria Addition Washington, Warren County, NJ



### Project Highlights

**Client:**  
Warren County Community College  
475 Route 57 West  
Washington, NJ 07882

**Contact:**  
Dennis Florentine

**Phone:**  
908.835.2626

**Construction Cost:**  
\$650,000

**Completion:**  
2008

### Project Description

The cafeteria addition of Warren County Community College involved the addition of a new building as an extension of the College cafeteria called the Eagle Nest Café. The structure is a single story, steel frame building with an elaborate bracing system that was designed to accommodate large window openings and rooftop HVAC equipment hidden behind a tall parapet. The design was performed using 3-D computer modeling and analyses with STAAD software for code-required load combinations, including wind and seismic.

### Services Provided

- Civil/Site Engineering
- Geotechnical Engineering
- Structural Engineering

# The College of New Jersey – Campus Town

Ewing, Mercer County, NJ



## Project Highlights

**Client:**  
PRC Group  
40 Monmouth Park Hwy  
West Long Branch, NJ 07765

**Contact:**  
Robert Kaye

**Phone:**  
732.222.2000

**Construction Cost:**  
TBD

**Completion:**  
Ongoing

## Project Description

Maser Consulting is providing professional services for a proposed Campus Town development at the College of New Jersey. Campus Town project will include the development of 14 acres of property adjacent to campus along Pennington Road. Campus Town is envisioned to be a sustainable, walk-able, and environmentally responsible complex near the campus that will be an alternative to traveling by car to shopping and services along nearby Route 1. 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 site improvements.

## Services Provided

- Site/Civil Engineering
- Land Survey
- Ecological
- Geotechnical Engineering
- Traffic & Transportation

## PROJECT PROFILE

# Rider University – New Academic Building & Theater Addition

Lawrenceville, Mercer County, NJ



### Project Highlights

**Client:**

Rider University  
2083 Lawrenceville Road  
Lawrenceville, NJ 08648

**Contact:**

Michael Reca, Assistant Vice President

**Phone:**

609.896.7700

**Construction Cost:**

\$10,200,000

**Completion:**

2011

## Project Description

Maser Consulting performed 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 is a 21,845 SF structure which provides additional classroom and faculty office space for the University. The project included the reconfiguration and reconstruction of the faculty parking lot, as well as a new underground stormwater management basin. The 5,200 SF theater addition at the student center includes provisions for loading theater equipment and set supplies, and modifications to the surrounding access driveways. Other services provided to Rider University included improvements to Centennial Lake and parking lot improvements to the various lots throughout the campus.

## Services Provided

- Civil/Site Engineering
- Land Survey
- Geotechnical Engineering
- Ecological
- Traffic & Transportation Engineering
- Stormwater Management

## Mount Saint Mary College – College Courts Building #35 Newburgh, Orange County, NY



### Project Highlights

**Client:**

Mount Saint Mary College  
330 Powell Avenue  
Newburgh, NY 12550

**Contact:**

Maryann Pilon, Director of Facilities

**Phone:**

845.569.3332

**Construction Cost:**

\$2,900,000

**Completion:**

2010

### Project Description

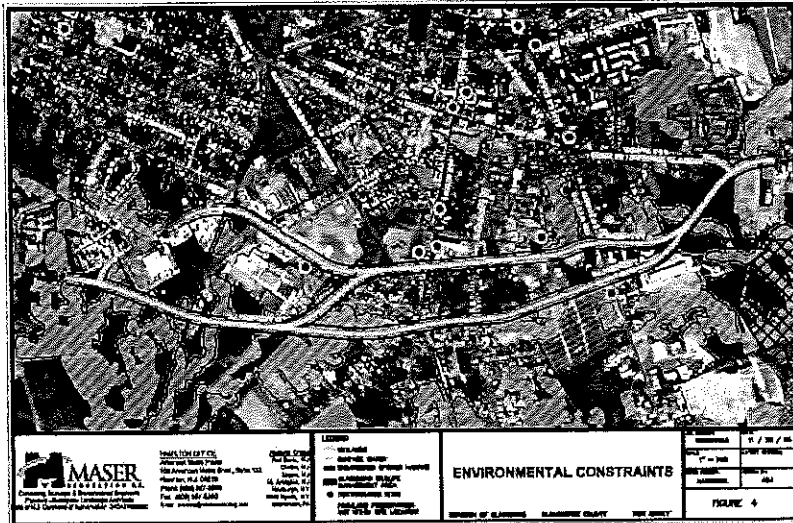
Professional Services were provided for the renovations to College Courts Building #35, an existing dormitory. Services included topographic surveying and the preparation of conceptual plans through construction documents. Plans included: existing conditions and demolition plans; layout (dimension) plans; grading, drainage and utility plans; soil erosion and sediment control plans; landscape and lighting plans; and construction detail sheets for the proposed site work. 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.

### Services Provided

- Land Survey
- Site/Civil Engineering
- Stormwater Management
- Landscape Architecture
- Construction Administration

# Rowan University Route 322 Feasibility Study

## Glassboro, Gloucester County, NJ



### Project Highlights

**Client:**  
Rowan University  
201 Mullica Hill Road  
Glassboro, NJ 08028

**Contact:**  
Joe Orlins, Vice President

**Phone:**  
856.256.5328

**Completion:**  
2009

## Project Description

Maser Consulting 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. Due to the complementary relationship between the Borough of Glassboro and Rowan University, it was necessary to include the Township within the process and consider impacts to their ongoing efforts to redevelop its Downtown.

Conceptual alignments varied widely from utilizing existing roadways, constructing new roadways, or a combination of both. For each alignment, potential environmental and community impacts were considered. Additionally, alternative solutions were considered to reduce roadway volumes through the University by creating one-way roadways, establishing truck routes, and other innovative solutions.

## Services Provided

- Conceptual Roadway Design
- Traffic Engineering
- Traffic Simulation and Modeling
- Traffic Demand Projections
- Environmental Screening
- Origin-Destination Studies
- Agency Coordination
- Public Outreach

## Rutgers University – Busch Campus Student Housing Project

New Brunswick, Middlesex County, NJ



### Project Highlights

**Client:**

G. Niles Bolton Associates, Inc.  
3060 Peachtree Road, NW Suite 600  
Atlanta, GA 30305

**Contact:**

Jeff Livingston, University Architect

**Phone:**

732-932-7017

**Completion:**

2011

### Project Description

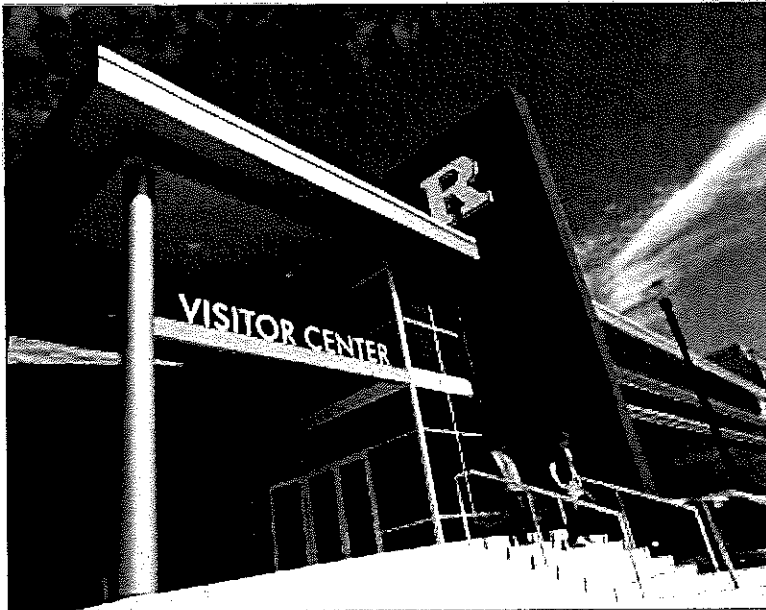
The Busch New Housing Project consisted of the redevelopment of five acres on the Busch Campus. The project included three, 3-story dormitory buildings providing 500 beds, a classroom, and meeting spaces. The project also included a separate central utility building, service roadway, parking lot reconfigurations, 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.

### Services Provided

- Civil/Site Engineering
- Land Survey
- Ecological
- Geotechnical Engineering
- Structural Engineering
- Transportation/Traffic Engineering

## Rutgers University – University Visitor Center

New Brunswick, Middlesex County, NJ



### Project Highlights

**Client:**  
Michael Riesz & Company  
588 New Brunswick Avenue  
Fords, NJ 08863

**Contact:**  
Eric Jensen

**Phone:**  
732.738.8100

**Completion:**  
2009

### Project Description

Maser Consulting teamed with The Biber Partnership AIA and Michael Riesz & Co. to form a design-build partnership for this project. This 2-story building contains 12,025 SF of flexible multipurpose space to accommodate prospective students and family members. The facility contains an outdoor terrace, service access drives, entry ramps, and handicap parking.

### Services Provided

- Civil/Site Engineering
- Landscape Architecture
- Construction Administration

# Fairleigh Dickinson University Baseball Complex

Teaneck, Bergen County, NJ



## Project Highlights

**Client:**

Fairleigh Dickinson University  
10 Woodridge Avenue  
Hackensack, New Jersey 07601

**Contact:**

Richard C. Frick

**Phone:**

201.692.2788

**Estimated Construction Cost:**

\$1,400,000

**Completion:**

2011

## Project Description

This project included the planning, site design, and engineering services associated with the improvements to the baseball field complex totaling 115,000 SF of synthetic turf. The project involved development of plans, including grading, stormwater management, drainage, soil erosion, and sediment control. Permits were required for soil erosion and sediment control and an individual permit for flood hazard area disturbance. The complex was designed for a home and visitor bullpen area, batting cages, dugouts, and an emergency access driveway.

## Services Provided

- Project Management
- Design & Planning
- Stormwater Management
- Permit Acquisitions
- Construction Management
- Coordination with Local Municipalities



## Drew University Athletic Complex

Madison, Morris County, NJ



### Project Highlights

**Client:**  
Drew University  
36 Madison Avenue  
Madison, NJ 07940

**Contact:**  
Jason Fein

**Phone:**  
973.408.3648

**Construction Cost:**  
\$600,000

**Completion:**  
2011

### Project Description

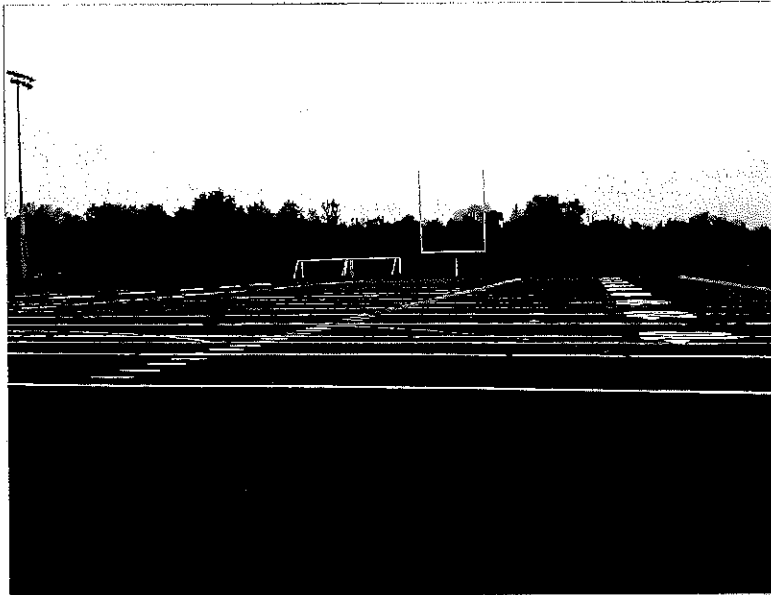
Maser Consulting provided planning, site design, and engineering services associated with the multi-use synthetic turf field improvements totaling 95,000 SF of turf. This multi-use field is permanently lined for NCAA soccer, men's lacrosse, women's lacrosse, and field hockey. The plans included designing the means to remove the pre-existing synthetic turf, modify the grading, drainage, and stormwater management renovations.

### Services Provided

- Project Management
- Design & Planning
- Stormwater Management
- Permit Acquisitions
- Construction Management
- Coordination with Local Municipalities

# Bridgewater-Raritan High School Athletic Field

*Bridgewater, Somerset County, NJ*



## Project Highlights

**Client:**

Township of Bridgewater  
100 Commons Way  
Bridgewater, NJ 08807

**Contact:**

Colleen Clarke, P.E.

**Phone:**

908.725.6300

**Estimated Construction Cost:**

\$1,250,000

**Completion:**

2012

## Project Description

Utilizing a shared-services agreement between the Township and the School District, the Township of Bridgewater was able to install a fourth synthetic turf field within the Township limits. The multi-purpose field is utilized by the High School during the day and the Township at night. The project included the design and construction of an 82,000 SF multi-purpose synthetic turf that is permanently lined for football, soccer, men's lacrosse, women's lacrosse, and field hockey. The subsurface red clay soils limited the amount of percolation beneath the field. Thus, a new headwall with a scour hole was designed to assist the stormwater management of the complex. In addition to the field, sports field lighting and ADA walking paths were designed and built to accommodate the needs of students, athletes, and spectators.

## Services Provided

- Project Management
- Design & Planning
- Stormwater Management
- Permit Acquisitions
- Construction Management
- Coordination with Local Municipalities

# Sylvester Land Athletic Field

Roselle, Union County, NJ



## Project Highlights

**Client:**  
Borough of Roselle  
210 Chestnut Street  
Roselle, NJ 07203

**Contact:**  
Jamel C. Holley

**Phone:**  
908.245.5600

**Construction Cost:**  
\$1,500,000

**Completion:**  
2010

## Project Description

This project included the 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/biking track that surrounds the site. The project involved development of plans, including grading, stormwater management, drainage, soil erosion, and sediment control. Permits were required for soil erosion and sediment control. The multi-use field is permanently lined for football, soccer, and little league baseball/softball. The site also included the construction of a basketball court, grandstand bleachers, sports field lighting, and wireless multi-use scoreboard.

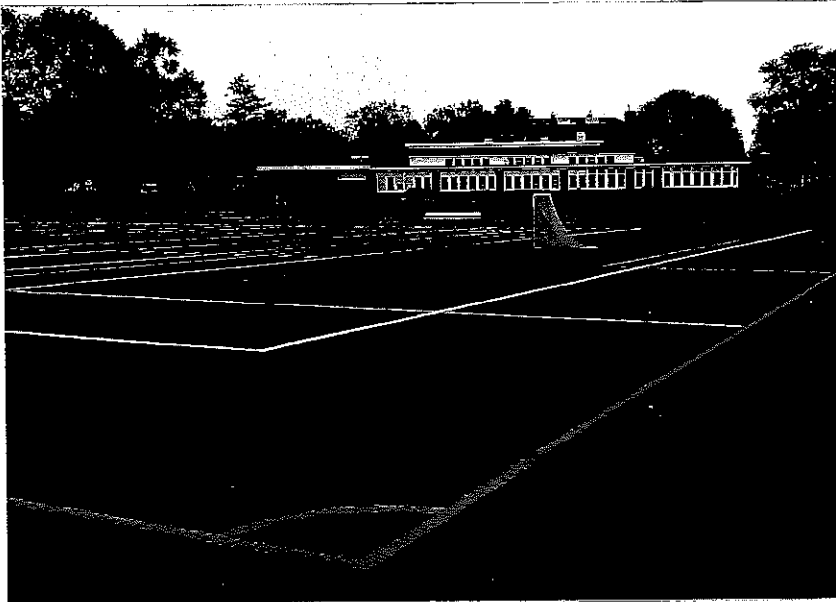
## Services Provided

- Project Management
- Design & Planning
- Land Survey
- Geotechnical
- Stormwater Management
- Landscape Architecture
- Construction Administration



## Upper Tatlock Athletic Field

Summit, Union County, NJ



### Project Highlights

**Client:**  
City of Summit  
512 Springfield  
Summit, NJ 07901

**Contact:**  
Paul Cascais

**Phone:**  
908.273.6404

**Construction Cost:**  
\$1,500,000

**Completion:**  
2008

### Project Description

Maser Consulting was retained to provide planning, site design, and engineering services for the construction of this 90,000 SF, multi-use synthetic turf field. Services for the project included the development of stormwater management plan; grading and drainage; soil erosion; and sediment control as well as daily construction inspection services. Permits were required for soil erosion and sediment control. The field is permanently lined for soccer and men's lacrosse, and control markers have been set for women's lacrosse.

### Services Provided

- Project Management
- Design & Planning
- Stormwater Management
- Permit Acquisition
- Construction Management

# Mickey Walker Recreational Facility

Elizabeth, Union County, NJ

## Project Highlights

**Client:**

City of Elizabeth  
59 Winfield Scott Plaza  
Elizabeth, NJ 07201

**Contact:**

Paul Addressa

**Phone:**

908.820.4226

**Construction Cost:**

\$1,000,000

**Completion:**

2011



## Project Description

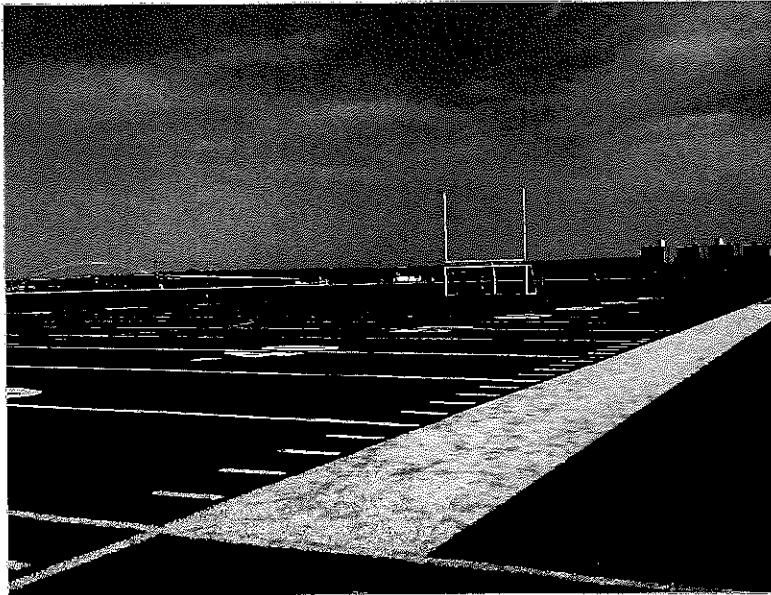
Maser Consulting was retained by the City of Elizabeth's recreational director to revitalize the 32-year old Mickey Walker Recreational Facility. The aged, existing pool facility in this urban recreational park was demolished and replaced with a new water spray ground that was designed with a state-of-the-art Green/sustainable plan that was put into place to control water usage, lower maintenance costs, and re-use materials. The water operating system was designed and constructed to be mechanically operated by a computer system that controls water release valves that orchestrates the opening and closing of the valves to facilitate various water feature events throughout the park. This programming reduced water consumption to help save natural resources and lower operational costs to the City. As many components as possible from the preexisting facility, including piping and rebar, filter tanks, motors, valves, PVC, and drainage structures were recycled in part or in whole, or re-used at other facilities throughout the City. The concrete debris from the pool demolition was recycled as crushed concrete and reused as fill material for the old pool location within the park which saved trucking and landfill costs. The renovations to the Mickey Walker Recreation Facility resulted in a 100% ADA accessible splash park contained within an acre area which also provided shade structures, picnic tables, benches, and an increase in the quality of life for local residents.

## Services Provided

- Landscape Architecture
- Geotechnical Engineering
- Topographic Surveys
- Regulatory permitting

# Waterfront Atlantic Synthetic Athletic Complex

Elizabeth, Union County, NJ



## Project Highlights

**Client:**  
City of Elizabeth  
59 Windfield Scott Plaza  
Elizabeth, New Jersey 07201

**Contact:**  
Paul Addessa

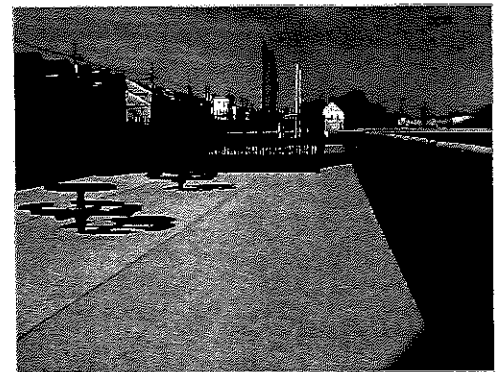
**Phone:**  
908.820.4226

**Estimated Construction Cost:**  
\$2,500,000

**Completion:**  
2012

## Project Description

The two fields at the Waterfront Atlantic Complex were designed and constructed to replace existing grass fields located atop an existing closed landfill. Due to the site's poor subsurface soil conditions, an intricate drainage system was designed to enable the stormwater runoff to drain the site. A full-sized football/soccer field and a smaller soccer field were built, totaling 205,000 SF of synthetic turf. New complex entrances, spectator, player, and picnic seating were also designed. Environmental permitting was required due to the amount of site disturbance within the landfill cap. In addition, the existing restrooms were renovated for ADA accessibility.

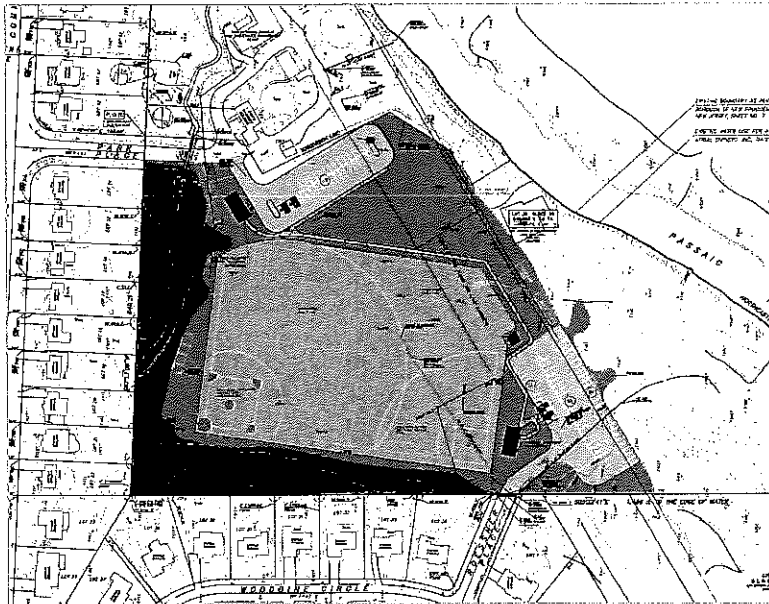


## Services Provided

- Project Management
- Design & Planning
- Stormwater Management
- Permit Acquisitions
- Construction Management
- Coordination with Local Municipalities

# Oakwood Park Athletic Field Improvements

New Providence, Union County, NJ



## Project Highlights

**Client:**  
Borough of New Providence  
360 Elkwood Avenue  
New Providence, NJ 07974

**Contact:**  
Douglas R. Marvin

**Phone:**  
908.665.1400

**Construction Cost:**  
\$3,000,000

**Completion:**  
To Be Determined

## Project Description

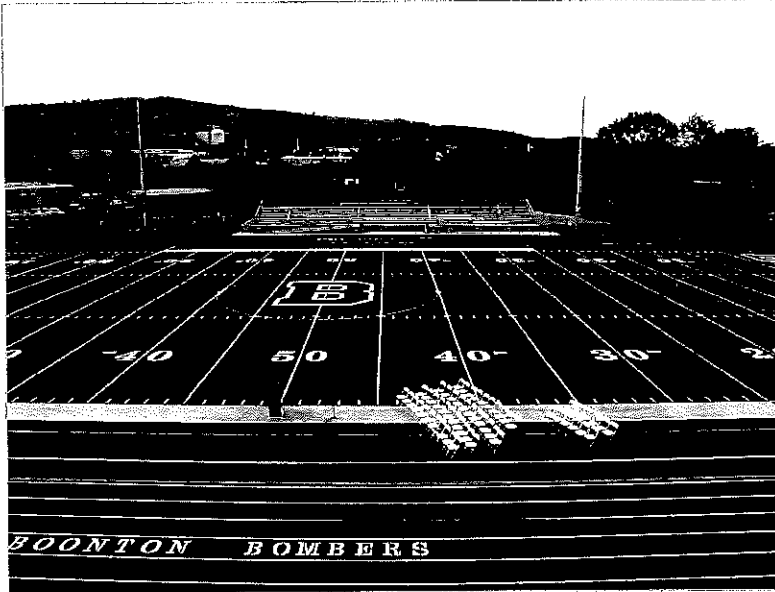
Planning, site design, and engineering services provided for the anticipated construction of approximately 200,000 SF of synthetic turf which includes one Babe Ruth-sized baseball field, one little league/softball field, and two soccer fields. The project is designed to include the expansion of two existing parking lots; a pathway network connecting both parking lots to the athletic facilities; and the design of two 1,500 SF storage/restroom building and the associated utilities. A subdivision was required in order to separate the parkland from the adjacent Public Works Complex. Upon award of the project, daily construction inspection services shall be required. Permits are required for soil erosion and sediment control as well as coordination with NJDEP Green Acres regarding project funding.

## Services Provided

- Project Management
- Design & Planning
- Stormwater Management
- Permit Acquisition
- Landscape Architecture
- Subdivision of Land

## Boonton High School Athletic Field

Boonton, Morris County, NJ



### Project Highlights

**Client:**  
Boonton Board of Education  
434 Lathrop Avenue  
Boonton, NJ 0700

**Contact:**  
Juanita A. Petty

**Phone:**  
973.335.3994

**Construction Cost:**  
\$2,500,000

**Completion:**  
2008

### Project Description

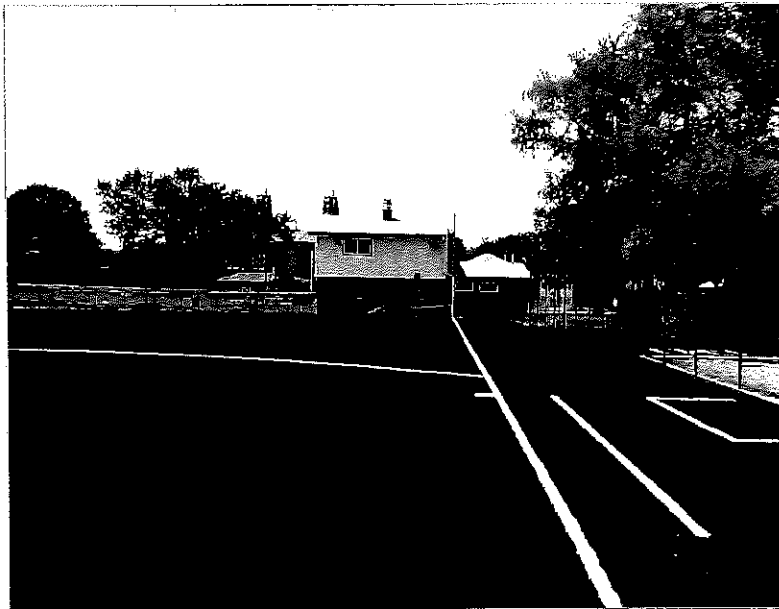
Boonton High School Athletic Field required a comprehensive design that would accommodate a multi-use synthetic turf field, an eight-lane synthetic track surface, the construction of new bleachers, a press box, and re-aiming the existing field lighting. In total, approximately 80,000 SF of synthetic turf and 60,000 SF of synthetic track surface were designed. Civil engineering services for the project involved project management; planning; development of conceptual design and utility relocations; as well as development of site plans including grading; stormwater drainage; soil erosion; and sediment control. Permits were required for soil erosion and sediment control. This field is permanently lined for football, soccer and field hockey. In 2012 Boonton High School Athletic Field was voted best turf field in Morris County in a Daily Record online poll.

### Services Provided

- Civil/Site Engineering
- Planning
- Stormwater Management
- Environmental
- Construction Management
- Project Management



## Bloomfield Multi-Parks (Vassar Field & Clarks Pond South) Bloomfield, Essex County, NJ



### Project Highlights

**Client:**

Township of Bloomfield  
1 Municipal Plaza  
Bloomfield, NJ 07003

**Contact:**

Anthony J. Nesto

**Phone:**

973.743.9074

**Construction Cost:**

\$900,000

**Completion:**

2010

### Project Description

This project included the planning, site design, and engineering services associated with two little league/softball fields. The Clark's Pond South field was designed to have a clay-skinned infield and synthetic turf outfield. Vassar Field was designed to convert the existing grass field to a full synthetic turf little league field with a clay pitching mound and batter's box area. A total of 65,000 SF of synthetic turf was installed for this project. Site amenities, such as pre-fabricated restrooms, scoreboards, dugouts, walking paths, and associated drainage were addressed. Permits were required for soil erosion and sediment control.

### Services Provided

- Project Management
- Design & Planning
- Land Survey
- Stormwater Management
- Landscape Architecture
- Construction Administration

## Belleville Municipal Football Field

Belleville, Essex County, NJ



### Project Highlights

**Client:**

Township of Belleville  
152 Washington Avenue  
Belleville, NJ 07109

**Contact:**

Victor Canning

**Phone:**

973.450.3323

**Estimated Construction Cost:**

\$2,400,000

**Completion:**

2010

### Project Description

The Belleville Municipal Stadium project has evolved over a ten year period. Due to the site's poor subsurface soil conditions, a light-weight aggregate was used instead of traditional clean stone in order to minimize the site settlement that would have occurred due to the installation of the 135,000 SF multi-purpose synthetic turf field. New stadium access was added to the existing stadium seating. The concrete stadium bleachers were renovated and refinished so that full replacement was not required. Also, an extensive underdrain system was designed to enable stormwater to enter the system, store beneath the field, and slowly release from the site. Funding was provided by an Open Space Grant, a Community Development Block Grant, and Township capital funds.

### Services Provided

- Project Management
- Design & Planning
- Stormwater Management
- Landscape Architecture
- Construction Administration
- Land Survey

## Metro Home Athletic Field

Summit, Union County, NJ



### Project Highlights

**Client:**  
City of Summit  
512 Springfield  
Summit, NJ 07901

**Contact:**  
Paul Cascais

**Phone:**  
908.273.6404

**Construction Cost:**  
\$900,000

**Completion:**  
2006

### Project Description

Maser Consulting was retained to oversee the field planning and design, project coordination, and construction inspection services for an 80,000 SF multi-use synthetic turf field. Services for the project involved the development of plans including grading, stormwater management, drainage and soil erosion, and sediment control. Construction management services were provided for the duration of the project. Permits were required for soil erosion and sediment control. The field is permanently lined for football, soccer, and men's lacrosse.

### Services Provided

- Project Management
- Design & Planning
- Stormwater Management
- Permit Acquisitions
- Construction Management
- Address Local Residential Concerns
- Environmental Impacts

## EDUCATIONAL FACILITIES

### **Site Feasibility Investigation**

#### **Elizabeth, Union County, NJ (NJSCC)**

Professional engineering services to conduct a site feasibility investigation of a project site in the City of Elizabeth for a new elementary school. Services included boundary and topographic surveys; utility survey plan, environmental screening report (ESR) to assess key site issues affecting development, Phase 1 preliminary assessment to identify areas of concern (AOC) on the site, geotechnical investigation and report including four test borings to a depth of 25', utility investigation analysis report to identify locations of utilities existing on the site, and evaluate the capacity of the existing utility infrastructures to support the proposed school facilities project.

### **Elementary School Addition**

#### **Springfield Township, Union County, NJ**

Site design and civil engineering for a 50,000 SF addition to an existing elementary school including stormwater management, grading, erosion control, parking lot expansion and sidewalk improvements. Other services included schematic design, existing conditions and demolition plan; dimension and circulation plan; grading and utility plan; soil erosion and sediment control plan; storm and sanitary sewer profiles; landscaping and lighting plan; wetland investigation/LOI, Executive Order 215 report, regulatory permitting (stream encroachment, freshwater wetlands transition waiver-averaging, NJDEP sewer extension, NJ American Water Company water extension, soil conservation, Rahway Valley Sewerage Authority and county/local planning boards), bidding and construction contract administration.

### **Springfield Township Board of Education Three School Site Expansions**

#### **Springfield, Union County, NJ**

Surveying services for Walton School, Sandmeier School and Caldwell School that included boundary and topographic surveys; as well as Geotechnical engineering services for parking lot expansions at the three school facilities, subsurface exploration program to take test borings for subsurface soils samples at existing foundations at sites for new additions and parking lots at the Walton and Sandmeier Schools.

### **UVSO Pre-School Building**

#### **Newark, Essex County, NJ**

Site design and civil engineering services for a proposed 30,000 SF two-story pre-school building with an outdoor play area and new on-site parking area. Services included concept plan refinement, preliminary and final major site plan, existing conditions plan, dimension plan, grading and utility designs, landscaping and lighting plan, soil erosion and sediment control plan, stormwater management and design of one (1) detention pond, minor sub-division plat, regulatory permitting (NJDEP and PVSC sewer extension, City of Newark water extension, soil conservation, and county / local planning boards), and bond estimate.

### **East Orange Demonstration Project**

#### **East Orange, Essex County, NJ**

Site design and civil engineering services for a site feasibility analysis for the East Orange Demonstration School in association with NJK-12 Architects, L.L.C. Services included site improvement services, site feasibility report (site characteristics, development constraints, environmental issues, geotechnical design requirements, and permit issues/requirements), permit analysis (all required permits necessary for pre-construction activities, including but not limited to environmental site remediation, demolition, historic preservation, utility abandonment and roadway openings), schematic design and site plan (building location and square footage, parking layout, vehicular site circulation, pedestrian walkways, utility layout, landscaping features, and site lighting) detail design development showing preliminary sizing of utilities such as storm sewers, sanitary sewers, watermains, and gas lines; construction documents showing the following plans: existing conditions, dimensions and circulation, grading and utility plan, soil erosion and sediment control, storm and sanitary sewer profiles, landscaping and lighting plan, drainage report, construction details, site plan rendering, construction specifications, cost estimate, value engineering study, site logistics plans, and construction phasing plans; and construction inspection and administration.



## EDUCATIONAL FACILITIES

### **New Elementary School**

#### **East Orange, Essex County, NJ (NJSCC Funded Project)**

Civil and site design, environmental engineering services for a new 81,000 SF Pre-K through 5th grade elementary school for approximately 516 students. Services included preliminary boundary survey, topographic and utility surveys, Phase I Preliminary environmental assessment, site feasibility report, geotechnical evaluation and report, utility investigation and report, wetlands investigation and conceptual site plan, property environmental assessment report, report, traffic impact analysis and air quality; and EIS for Executive Order 215.

### **New Charter School Facility**

#### **Jersey City, Hudson County, NJ**

Site and civil engineering for a new charter school facility to be developed on an abandoned factory site. Other services included landscaping and lighting plan, boundary and topographic surveys, geotechnical evaluation, drainage study, soil erosion plan, storm water management plan, environmental assessment, and preliminary and final site plans.

### **New Fuel Tanks**

#### **Piscataway Township Schools, Middlesex County, NJ**

Professional engineering and surveying services associated with the installation of two (2) above ground fuel oil storage tanks at the bus parking lot located at the Ethel Road Maintenance Facility including concrete foundation pads, attendant booth, fueling pad, asphalt concrete paving and site lighting. Services included topographic survey, preliminary and final major site plans, existing conditions plan, dimension and circulation plan, grading and utility plan, soil erosion and sediment control plan, storm and sewer profiles, lighting plan, drainage report, construction details, regulatory permitting, construction documents, and civil engineering construction services.

### **Middlesex County Educational Services Commission Special Education Facility**

#### **Sayreville, Middlesex County, NJ**

Professional engineering services for a 65,000 SF special education facility with a pool, a future building, associated parking lot, and a playground. Services include a boundary survey, an aerial survey, a topographic survey, a route survey, a phase I environmental assessment, a phase II environmental assessment, delineation of wetlands and preparation of letter of interpretation - line verification, engineering feasibility study / permit review, and preliminary geotechnical subsurface soils evaluation.

### **Special Education Facility**

#### **Sayreville, Middlesex County, NJ**

Professional engineering services for a 71,000 SF special education school on an industrial facility site. Services include a concept plan, preliminary stormwater volume and recharge analysis and two (2) at-grade stormwater basin designs, design of 600' of municipal roadway, preliminary and final major site plans, a dimension plan, grading and utility designs, a soil erosion and sediment control plan, a stormwater management design and one (1) at-grade detention basin, pump station & offsite utility design, traffic impact report, lighting and landscaping plans, supplemental geotechnical services, one (1) cost estimate, and regulatory permitting ( Sayreville Planning Board, Middlesex County Planning Board, Sayreville for Soil Erosion and Sediment Control / NJPDES Stormwater Discharge, Sayreville Water & Sewer Department, Middlesex County Utilities Authority, NJDEP sewer and water main extensions).

### **New Counseling Center**

#### **New Brunswick, Middlesex County, NJ**

Site design and civil engineering services associated with the proposed development of a new counseling center facility consisting of a 6,400 SF, two-story building, parking area with 16 parking stalls on-site and 8 parking stalls off-site. Other services included research and data collection to obtain an use variance, concept plan refinement, site inspection for wetlands presence or absence, preliminary geotechnical subsurface investigation, soil sampling and testing; preliminary and final site plans, dimension plan, grading and utility plans, soil erosion and sediment control plan, landscape and lighting plan, stormwater management plan, and regulatory permitting (NJDEP LURP Freshwater Presence/Absence, soil conservation and county/local planning boards).



## EDUCATIONAL FACILITIES

### **Piscataway High School Expansion Piscataway, Middlesex County, NJ**

Environmental services associated with the proposed expansion of an existing high school. This requires a delineation of the limits of the State Open Waters located within the project limits, and preparation of a Letter of Interpretation - Line Verification to the NJDEP. Other services included delineation of wetlands (three-parameter approach vegetation, soils, hydrology) and preparation of wetland delineation report, prepare application request for a LOI and surveying services to locate and plot wetland flags and preparation of wetland location survey.

### **New Storage Building/Middle School Edison, Middlesex County, NJ**

Site design and civil engineering services for a 6,000 SF new storage building to the existing middle school facility. Other services included perimeter and topographic surveys, design documents, regulatory permitting (water and sewer extension permits, soil conservation and county planning board) and preparation of final construction documents.

### **Modifications and Additions / 12 Schools Edison, Middlesex County, NJ**

Site design, civil and geotechnical engineering and land surveying services associated with the additions and improvements to 12 school sites in Edison Township. Services included boundary and topographic surveys, soils/geotechnical subsurface exploration, laboratory soils testing/analysis and general soil recommendations regarding topsoil, stripping and structural fills and allowable bearing capacity of on-site soils or other foundation support system for the proposed construction on these 12 facilities, realignment of an existing access road (Stevens High School), stormwater management and detention basin design (James Madison Primary School), grading and utility plans, drainage studies and bid documents.

### **Lord Stirling Replacement School New Brunswick, Middlesex County, NJ**

This project includes civil engineering and site design work for this two-story, 98,000 SF school facility, which is expected to accommodate a maximum of 475 students. Project features include tot lot play areas, half court basketball play areas, and an internal gym.

### **New Health Sciences High School New Brunswick, Middlesex County, NJ**

Provided civil engineering, site design, permitting, geotechnical engineering and foundation design for this school, which is a three-story modular building located on a site donated by the Robert Wood Johnson University Hospital.

### **South River Montgomery School Expansion South River, Middlesex County, NJ**

Provided civil engineering, site planning, and transportation engineering for the South River study of existing traffic circulation and parking facilities for potential school expansion.

### **Warren Township Schools South Wing Expansion and Parking Lot Improvements Warren, Somerset County, NJ**

Site design, civil and geotechnical engineering services associated with the construction of a 2,000 SF building addition and associated parking lot revisions including a 60-80 vehicle remote parking lot. Services included preliminary subsurface soils investigation, schematic plan, design plans for site drainage and sanitary sewer connection, lighting plan, grading plan, soil erosion and sediment control plan, tree removal plan, stormwater management and drainage report, dimension plan, utility plan, and sidewalk, curbing, paving improvements; sanitary pump station and force main, regulatory permitting (Warren Township MUA sanitary sewer connection, NJDEP sewer extension and county/local planning boards), and construction administration.



## EDUCATIONAL FACILITIES

### **New Autistic Educational School Warren Township, Somerset County, NJ**

Site design and civil engineering services for a new 120,000 SF, two-level facility for 300 autistic children and staff with several different modules to accommodate site grading on terraces and to allow separation of the educational program into three age groups. The site is 18.71-acres, generally wooded, moderately steep slope with existing buildings and pond. Other services include topographic survey, grading, drainage and utility plans; soils erosion and sediment control plans, landscaping and lighting plans, stormwater management and sanitary sewerage system reports, regulatory permitting (NJDEP sewer line and water main extensions, freshwater wetlands, statewide general, transition area waivers and buffer averaging; county and local planning boards and municipal utility authority), additional landscaping and pond design, traffic impact analysis, roadway design, EIS and geotechnical soils analysis.

### **School Expansion & Track & Field Improvements Boonton, Morris County, NJ**

Site design and civil engineering services for the construction of a 17,000 SF two-story building to the John Hill Elementary School Boonton and improvements to the high school athletic field improvements consisting of removal of all existing facilities within the project location, construction of a new multi-purpose synthetic turf field, construction of a new 8-lane 400 meter synthetic surface track, construction of underground storm drainage, installation of utility upgrades, installation of home side press box, installation of home and visitor bleachers, and walkway installation. Services include aerial, topographic, and boundary surveys; environmental review, delineation of wetlands, regulatory permitting (NJDEP freshwater statewide, NJPDES stormwater discharge, soil conservation, and county/local planning boards), cultural resources review, concept design plan, grading and utility designs, soil erosion and sediment control, stormwater management design, landscaping and lighting plan, preliminary subsurface soils exploration, and construction administration and inspection.

### **Washington Township BOE, School Additions and Site Improvements Washington Township, Morris County, NJ**

Site design, civil and geotechnical engineering and land surveying services associated with the improvements to the parking lots, access drives, a bus drop-off, water quality detention basin design to the Flocktown/Kossmann School site, and a 2,500 SF addition to the Flocktown Elementary School; and a 760 SF addition to the Old Farmers Road School and small parking lot additions. Services included preliminary subsurface exploration, boundary and topographic surveys, concept plans, layout and dimension plans, grading plan including retaining walls up to 48" high, utility plan, landscape and lighting plans, and soil erosion and sediment control plan.

### **Washington Township New Elementary School Long Valley, Morris County, NJ**

Site design and civil engineering services associated with a new 98,000 SF elementary school, play fields, courtyard, parking and access driveway, bus drop-off and stormwater detention basin. Other services included preliminary geotechnical exploration, boundary, topographic and utility surveys; grading plan, utility plan, soil erosion and sediment control plan, landscape and lighting plans, wetlands assessment and environmental report, delineation of wetlands, EIS, regulatory permitting (NJDEP Treatment Works Approval and NJDEP Water Work Approval), and a design report, plans and specifications for a sanitary sewer pump station and approximately 4,050 LF of force main to service the new elementary school. Hydrogeologic services to conduct confirmation of previous soil sampling that indicated concentrations of beryllium onsite that exceed NJDEP Soil Cleanup Criteria, as well as possible pesticide contamination in the form of 4,4-DDT. Services included conducting priority pollutant metals and historic pesticide sampling activities sampling frequency of one sample for every 2-acres for the first 10 acres and one sample per each five remaining acres.

### **High School Expansion Montville Township, Morris County, NJ**

Site design and civil engineering services for the expansion of the Montville Township High School. The expansion consists of several buildings alterations, four building additions, reconfiguration of an existing parking area and alternates for a new parking lot and detention basin. Other services included conceptual plan review, wetlands investigation/LOI, grading and utility plans, soil erosion and sediment control plan, landscape and lighting plans, storm water detention basin design and alternate parking lot design for 40 to 50 spaces.



## EDUCATIONAL FACILITIES

### Florham Park Public Schools Expansions Florham Park, Morris County, NJ

- Ridgedale/Briarwood/Brooklake School Expansions - Environmental and surveying services for proposed school expansions. Other services included preliminary wetland assessment, wetlands/waters delineation and LOI and boundary, topographic and utility surveys.
- Briarwood/Brooklake Schools - Site design and civil engineering services for a 16,000 SF addition to existing facility and a 10,000 SF addition to the Kindergarten Wing. Other services included additions to parking area (10-12 spaces), site drainage and stormwater system design, pump station design, improvement to traffic and circulation patterns for bus and student drop-offs, grading and utility plans, landscaping plan, geotechnical subsurface investigation, soil erosion and sediment control plan, regulatory permitting (freshwater wetlands, sewer/water extensions, soil conservation and county planning board) and final construction documents.
- Ridgedale Avenue Middle School - Site design and civil engineering services for a 21,000 SF addition with a separate BOE office to existing facility. Other services included site drainage and stormwater design, grading and drainage plans, relocation of maintenance facility, relocation of softball field closer to new addition and overlap this field with an all-purpose soccer field and the addition of new baseball field down slope of the softball field, landscaping plan, soil erosion and sediment control, regulatory permitting (freshwater wetlands, stream encroachment, sewer/water extensions, soil conservation and county planning board) and final construction documents.

### Site Feasibility Investigation

#### Paterson, Passaic County, NJ (NJSCC)

Environmental engineering services to conduct a site feasibility investigation for the Marshall Street School in Paterson, NJ. Services included boundary survey, limited groundwater investigation, soil borings, sampling and testing for BTEX, parameters, lead, MTBE, and TBA parameters, and geophysical survey of property using Ground Penetrating Radar (GPR) and magnetometer to evaluate the potential presence of ferrous objects such as tanks, former tank pits, piping or other buried equipment that may remain below ground.

### Environmental Services Early Childhood Center Passaic, Passaic County, NJ (NJSCC)

Professional services to conduct a limited and modified Environmental Screening Report (ESR), Concept Plan and Architectural/Building Evaluation for a proposed Early Childhood Center. The existing building is a private Catholic School to be vacated in 2007. The building is a three-story building with a basement, which is located only two (2) feet below grade along the side yard and adjacent to the parking lot. There is also a utility sub-basement located under a portion of the school. Services included environmental screening report (review of previously completed reports documenting asbestos and lead paint mitigation and oil tank removal activities and documents identifying any past or current environmental remedial activities), concept plan, and architectural/building site evaluation.

### Environmental Services Marshall Elementary Paterson, Passaic County, NJ (NJSCC)

Professional engineering services to conduct a site feasibility investigation for the Marshall Street School involving the construction of pedestrian bridge over the New Jersey Transit property. Services included preliminary assessment / site investigation (PASI) activities for the proposed pedestrian bridge at the site, soils investigation for soil contamination within the proposed permanent easement and evaluation of soil quality as it relates to worker health and safety during ground intrusive activities, preliminary assessment (PA) to identify areas of concern (AOC) on the site, the site investigation (SI) focuses on the proposed footprints of the pedestrian bridge on each side of the NJ Transit property, soil borings, sampling and testing for each of the two bridge landing footprints, and preparation of final report.

Additional services included boundary survey, daily technical oversight during construction of the pedestrian bridge to ensure that all excavated soils are properly handled and disposed, evaluation of all imported soil materials for potential contamination, and soil gas sampling and installation of ten (10) temporary soil gas probes.





## EDUCATIONAL FACILITIES

### **Rehabilitation & Development, Hinchcliffe Stadium Paterson, Passaic County, NJ (NJSCC)**

Professional engineering services to conduct a site feasibility investigation for the proposed development and rehabilitation of the existing Hinchcliffe Stadium site for a Sports Business Academy. Preliminary plans call for renovating the field, as well as building a track and football field, two gymnasiums, an ice rink, an Olympic - size swimming pool, and a 20,000 SF facility for 150 students who want to explore careers in sports management. The existing stadium is 72 years old and on the NJ State Register of Historic Places. Services included boundary survey and aerial photograph, environmental screening report to immediately assess key site issues affecting the site development, Phase 1 preliminary assessment (PA) to identify areas of concern (AOC) on the property, geotechnical subsurface investigation and soils analysis, traffic and air quality feasibility analysis, conceptual site plan, preparation of Executive Order 215 Report, architectural pre-design and programming services, architectural, structural and building systems report; and historical and cultural resource investigation.

### **Site Feasibility Investigation Paterson, Passaic County, NJ (NJSCC)**

Professional engineering to conduct a site feasibility investigation of the existing Alexander Hamilton Academy facility and site which is to be acquired by the Paterson Public School District. Services included boundary, topographic and utility surveys; environmental screening report (assess key site issues affecting the property acquisition/site development), Phase I Preliminary Environmental Assessment, utility investigation and analysis report, asbestos, lead paint, lead in drinking water, mold, radon and PCB investigations; property acquisition environmental cost estimate report, traffic and air quality feasibility analysis, site feasibility report and conceptual site plan, preparation of EO-215, architectural/building site evaluation, and completion of NJDOE land acquisition checklist.

### **New Marshal Hazel Elementary School Paterson, Passaic County, NJ (NJEDA Funded Project)**

Civil and site design, engineering services for an 86,850 SF, two-story elementary school accommodating 700 children and a pedestrian bridge over the NJ Transit rail line. Services included topographic survey for roadway cross-sections to improve 3 streets and pedestrian bridge, utility service availability, regulatory permitting (NJDEP stream encroachment, NJDEP treatment works and water works, soil conservation and county/local planning boards), geotechnical subsurface evaluation, soil borings, site/grading plans, traffic study, design of reinforced concrete retaining wall and stormwater management design.

### **New Elementary Schools Bogota, Bergen County, NJ**

Site design and civil engineering services for two new elementary schools (Bixby Elementary and Steen Elementary). Other services included design of play areas, parking areas, site drainage and stormwater management, location of underground utilities, soil erosion and sediment control plan, grading, utility and landscaping plans, preparation of construction documents and regulatory permitting (soil conservation and NJDEP Treatment Works Approval).

### **Hamburg Township Board of Education Hamburg, Sussex County, NJ**

Providing civil engineering, stormwater management, and landscape architecture and lighting services for a 10,000 SF addition to the Township Elementary School.

### **New Middle School Hardyston Township, Sussex County, NJ**

Site design and civil engineering services associated with a new two-story 80,000 SF building. Other services include preliminary geotechnical subsurface exploration, regulatory permitting (NJPDES DGW and TWA and soil erosion), grading plan, utility plan, soil erosion sediment control plan, landscape and lighting plan, storm water management plan and detention basin design, septic system design (disposal field approximately 20,000 square feet) and construction inspection and administrative service.



## EDUCATIONAL FACILITIES

### **Ewing Township Board of Education District Wide Improvements, Mercer County, NJ**

Professional surveying and civil engineering services provided for improvements to Ewing Township High School, Fisher Middle School and Lore Elementary School. Work includes parking lot and driveway improvements, as well as the repaving of the existing kindergarten play area at Lore Elementary School. Other services include site planning, permitting applications (Township of Ewing Planning Board and Mercer County Soil Conservation District), topographic survey, grading and utility plans, Soil Erosion and Sediment Control Plans, construction plans and specifications, and construction administration services.

### **Modular Buildings/Sharon & Pond Road Schools Washington Township, Mercer County, NJ**

Professional engineering and surveying services for the installation of modular buildings at the Sharon Elementary and Pond Road Middle Schools to serve as temporary classrooms. Services included topographic survey, preliminary and final minor site plans, existing conditions plan, dimension and circulation plan, grading and utility plan, soil erosion and sediment control plan, storm and sanitary sewer profiles, landscaping and lighting plan, drainage report, regulatory permitting, and construction inspection.

### **Bridge Academy School Hamilton Township, Mercer County, NJ**

Civil engineering and site design for a new 17,250 SF facility with access to the site from Industrial Drive. Services include boundary and topographic surveys, lot consolidation plan, concept plan, preliminary and final major site plan, existing condition and demolition plan, dimension and circulation plans, grading and utility plans, soil erosion and sediment control plans, storm and sanitary sewer profiles, landscaping and lighting plans, drainage report, delineation of wetlands, letter of interpretation (LOI), wetlands location survey, traffic engineering study, preliminary subsurface soils investigation, regulatory permitting (NJDEP freshwater wetlands, stream encroachment, and sanitary sewer extension; Hamilton MUA, and local / county planning boards) and construction administration.

### **Stuart Country Day School of the Sacred Heart Building & Campus Improvements Princeton, Mercer County, NJ**

Site design and civil engineering for improvements to the athletic fields, parking and academic facilities. Other services included preliminary and final site plans, wetlands delineation, Phase I environmental assessment, storm water management and detention basin design, regulatory permitting (freshwater wetlands), geotechnical engineering, landscape architecture and construction stake-out services for site improvements (storm sewer, sanitary sewer, 8 new buildings and curbing and parking lots.)

### **Program Centers Evesham and Greenwich Townships, (Burlington / Mercer Counties), NJ**

Site design and civil engineering for the development of two program centers approximately 11,000 SF to 15,000 SF for the Girl Scouts of the South Jersey Pines at these existing facilities-Camp Kettle Run (290 - acres in Medford & Evesham Townships) and Camp Sheppard's Mill (410-acres in Hopewell and Greenwich Townships). Services included boundary, topographic and wetlands location surveys; freshwater wetlands delineations, NJ Pinelands Commission and NJDEP applications for confirmation of wetland boundaries on the property, environmental impact statement (EIS), cultural resource studies, regulatory permitting (NJ Pinelands, NJDEP-CAFRA, NJDEP freshwater wetlands and buffer averaging plan, soil conservation, county/local planning boards, NJDEP major stream encroachment (Sheppard's Mill), and NJDEP treatment works approval, NJPDES, NJPDES-DGW, and NJDEP water allocation), preliminary assessment for NJDEP Green Acres Program acquisition of the sites, concept plans, stormwater management plan with drainage analysis on existing on-site usage and existing on-site soils, preliminary and final major site plans, dimension plans, grading, drainage and utility plans; soil erosion and sediment control plans, retaining walls design, construction cost estimates, radon sampling and mitigation plan, septic system soils suitability and system design, geotechnical subsurface exploration in area of building structures, hydrogeological investigation for water demand, supply and quality, test wells and water supply wells drillings, aquifer test plan, wastewater disposal investigation, landscape plan, traffic impact assessment, and construction administration and inspection.



## EDUCATIONAL FACILITIES

### **Addition to Elberon Elementary School Long Branch, Monmouth County, NJ (NJSCC Funded)**

Site design and civil engineering services associated with the addition of a 46,000 SF building and potential upgrades of existing buildings at the Elberon Elementary School. Other services included boundary, topographic and utility surveys; Phase 1 Preliminary Assessment to identify Areas of Concern (AOC), Phase 2 site investigation to determine if contaminants are present at the site from the Phase 1 Preliminary Assessment, subsurface geotechnical soils investigation and sampling, utility investigation analysis, preparation of construction documents for site improvements, demolition and technical specifications, site feasibility report, conceptual site plan, Prepared EO 215, and regulatory permitting (local planning board).

### **Search Day School New Facility Ocean Township, Monmouth County, NJ**

Site design and civil engineering services for a new school. This project was taken over as a result of a conflict with initial engineer. Our services included preliminary and final site plans, tree location and preservation plan, landscape plan, soil erosion and sediment control plan, engineer report for sanitary sewer and water distribution facilities, stormwater management report and design of detention/water quality basin, and regulatory permitting (NJDEP sanitary sewer extension, soil conservation and county/local planning boards.)

### **New Gregory Elementary School Long Branch, Monmouth County, NJ (NJSCC Funded)**

Site design, civil and environmental engineering services for a proposed three-story, 45,000 SF elementary school to accommodate children from pre-kindergarten through 5th grade located on a 6-acre tract of land. Services included concept plan, condemnation surveys, topographic survey, JCPL utility line relocation, environmental services (wetlands evaluation, preliminary assessment (PA), site investigation (SI), and environmental impact statement (EIS)/EO 215), environmental regulatory permitting (NJDEP statewide general, and NJDEP treatment and water works), subsurface soils exploration, site plans, demolition, dimension, grading and utility plans; soil erosion and sediment control plans and landscape and lighting plans.

The preliminary assessment (PA) report indicated four areas of Concern (AOC). Three UST's, waste piles (plastic bottles, plastic bags, aluminum cans, etc.), one pole mounted electrical transformer and capacitor, and a former railroad easement adjacent to property with inactive rail lines with possible polynuclear aromatic hydrocarbons (PAHs). A site investigation (SI) will be performed to evaluate the presence or absence of soil and groundwater impact associated with UST's and the former railroad easement. A report will be prepared containing all lab results and recommendations for further investigation and/or remedial action as well as projected cost estimates for remedial investigation and cleanup.

Additional environmental engineering services for site investigation for the Gregory Elementary School replacement. The school will be a three-story 45,000 SF facility on .7-acres. The additional site investigation services include required well search as a result of groundwater contamination, concentrations of tetrachloroethene were identified in the vicinity of the existing UST adjacent to the Fidelity Lodge delineation of the groundwater contaminant plume is required; railroad ties coated with creosote is an acting source of contamination for the underlying soils in the ROW areas and the number of ties must be identified and removed; soil and groundwater assessment and sampling within the building footprint, and a comprehensive cost estimate for remediation of known contaminated areas of the site.

### **West Long Branch Public Schools Improvements West Long Branch, Monmouth County, NJ**

Site design, civil and geotechnical engineering services for the improvements to existing school property where the Frank Antonides School and Betty McElmon Elementary School are located. Site improvements include sidewalk, curb, driveway, parking lot and ADA improvements to Antonides School, removal and replacement of tennis and basketball courts, handicapped access to the Antonides School, new playground at the McElmon Elementary School along with associated grading, drainage and accessibility improvements, reconfiguration and rehabilitation of the softball/soccer fields along with associated athletic field improvements including grading, drainage, irrigation, soil and turf improvements and exterior lighting improvements to Antonides School. Services included concept plans, schematic design, geotechnical subsurface soils investigations, soil borings and soil samples for the athletic fields, boundary and topographic surveys, existing conditions and removal plan, dimension plan, grading, drainage and utility



## EDUCATIONAL FACILITIES

plans; landscape and lighting plans, irrigation plan, play area plan, soil erosion and sediment control plans and regulatory permitting (NJDEP stream encroachment, delineation of wetlands, LOI/Coastal Wetlands, EO 215, statewide general # 11 (stormwater outfall structure), and transition waiver; soil erosion and sediment control and county/local planning boards); construction documents, bidding and contract award and construction administration.

### Ocean Township Board of Education Ocean Township, Monmouth County, NJ

- Intermediate School - civil engineering services for a 65,000 S.F. two-story classroom addition, relocation of existing softball field, 22,000 S.F. parking lot and construction of a fire lane around the addition and existing building. Other services include topographic survey, regulatory permitting (Freehold Soil Conservation District, NJDEP Wetlands LOI, NJDEP Treatment Works approval, and county/ local planning boards), dimension plan, grading, drainage and utility plans, landscape and lighting plan, soil erosion and sediment control plan, site plan drawings and limited site construction administration and inspection.
- Additional services (surveying and revised site plan) to prepare up to a total of three preliminary concept sketches which will explore the various options concerning the required school bus parking, the expanded parking lot and vehicular access to the rear of the school property for future development.
- Wanamassa Elementary School - civil engineering services for 17,000 SF one-story library and classroom addition. Other services include topographic survey, regulatory permitting (Freehold Soil Conservation, NJDEP Treatment Works and county/local planning boards), site plan drawings and limited site construction administration and inspection.
- Elementary School - civil engineering services for a 4,000 SF one-story library addition, a new multi-purpose paved area, a new bus loop drive and improvements to the existing parking area and new perimeter fencing. Other services included topographic survey, regulatory permitting (Freehold Soil Conservation and county/local planning boards), site plan drawings and limited site construction and inspection.
- High School Athletic Fields - civil engineering services for the improvement of several athletic fields including a new woman's softball field, a woman's field hockey/lacrosse field and the clearing, grading, and seeding of seven (7) practice fields and the installation of perimeter fencing. Other services include topographic survey, regulatory permitting (NJDEP LOI, Freehold Soil Conservation and county/local planning boards), site drawings and limited site construction administration and inspection.

### New Elementary School Long Branch, Monmouth County, NJ (NJEDA Funded Project)

Site design and civil engineering services for a new three-story, 94,000 SF elementary school including baseball field. Other services include concept plan review, boundary and topographic surveys, slope easement maps, wetlands assessment and LOI, regulatory permitting (wetlands averaging, CAFRA, waterfront development, Army Corps) and geotechnical soils analysis. The design of the baseball field will include a backstop, infield mix; an outfield grass mixture and associated grading of the field. In addition, a storm water management report and water quality treatment measures reports will be developed for storm water runoff.

### Temporary Classroom Units Neptune City, Monmouth County, NJ (NJEDA Funded Project)

Site design and civil engineering services for temporary classroom units. Other services included boundary and topographic surveys, concept plan and feasibility study (utilities, sanitary sewer, storm sewer and water service), drainage, grading and utility plans, lighting plan, soil erosion and sediment control plan and environmental permitting (soil erosion).

### New Elementary School Neptune Township, Monmouth County, NJ

Geotechnical engineering services for a subsurface exploration program to access potential foundation system and basin design criteria for the construction of a new three-story high elementary school. Program included location of test pits, test borings, full-time technical observation of excavation and drilling contractor, collect representative soil samples, perform laboratory testing, evaluation of test pit and boring logs indicating types of soil, rock and elevation of



## EDUCATIONAL FACILITIES

groundwater, provide general soil recommendations regarding topsoil, stripping and structural fills and allowable bearing capacity of on-site soils or other foundation support system for the proposed construction.

### **Neptune Township Board of Education Neptune, Monmouth County, NJ**

- Provided professional services for all recreational and facility improvements involving Neptune School facilities.
- Realignment of Heck Road and intersection improvements to Neptune Boulevard for vehicular traffic from the high school.
- Provided traffic and transportation engineering and environmental services for the study of the impact of traffic on Neptune Boulevard from these facilities (Neptune High School and Middle School).

### **Freehold Borough Public Schools Learning Center Freehold, Monmouth County, NJ**

Completed construction documents for an addition to the Freehold Learning Center, which is part of the Freehold Borough Public Schools System, Monmouth County, NJ. The addition is being constructed to house the newly added Pre-Kindergarten program to supplement the Kindergarten through 6<sup>th</sup> grade Elementary School services operating on the school grounds. The project includes site amenity upgrades to the on-site traffic circulation patterns in an effort to alleviate traffic congestion on nearby roadways during student arrivals and departures.

### **Middle School Expansion Marlboro, Monmouth County, NJ**

Civil engineering, geotechnical engineering, landscape design, land surveying, site planning, traffic and transportation engineering and environmental services were provided for the expansion of the middle school and improvements to the existing facility.

### **Monmouth County Vocational Schools Building & Campus Improvements Sandy Hook, Monmouth County, NJ**

The project consisted of civil engineering and site planning for the Sandy Hook grading, drainage and infrastructure improvements for the rehabilitation and use of existing buildings.

### **Union Beach Board of Education School Addition Union Beach, Monmouth County, NJ**

Provided civil engineering, soils engineering, surveying, and site planning and environmental services for the 3,000 SF addition of classroom space.

### **Colts Neck Board of Education Cedar Drive School Expansion Colts Neck, Monmouth County, NJ**

This project included civil engineering, soils engineering, site planning and environmental engineering. The school underwent a 20,000 SF addition to the existing 55,600 SF facility.

### **Rumson Country Day School Facility Additions/Improvements Rumson, Monmouth County, NJ**

Site design and civil engineering services for additional parking area, multipurpose playground and alterations to the pick-up/drop-off area at the school facility. Other services included conceptual, preliminary and final site plans; grading, drainage and utility plan; landscape and lighting plan, storm water management, regulatory permitting (soil erosion and county planning board) and soil erosion and sediment control plans, partial topographic survey, as-built survey and base map preparation for three project areas totaling 120,000 SF. (16,000 SF for 11 space parking lot, 20,000 SF for driveway loop, and 80,000 SF for addition and 78 space parking lot.)

### **Site Assessment Proposed School Site Bordentown, Burlington County, NJ**

Environmental services for a Phase I Environmental Assessment for a seventy-five acre parcel of land previously historically farmed for a proposed new school facility. Services included historical review, industrial and commercial historical review, review of existing local, state and federal records, review of adjacent lands, preparation site location map, preliminary soil screening, delineation of wetlands and LOI and regulatory permitting (stream encroachment,



## EDUCATIONAL FACILITIES

land use regulations freshwater wetlands and soil erosion and sediment control), Colonial Pipeline Crossing/Encroachment and Environmental Impact Statement (EIS).

### **Bordentown Regional School District New High School Bordentown, Burlington County, NJ**

Geotechnical engineering services for a subsurface exploration program to access potential foundation system and basin design criteria for the construction of a new two-story tall high school, a single story glass corridor link and associated infrastructure improvements. Program included location of test pits, test borings, full-time technical observation of excavation and drilling contractor, collect representative soil samples, perform laboratory testing, evaluation of test pit and boring logs indicating types of soil, rock and elevation of groundwater, provide general soil recommendations regarding topsoil, stripping and structural fills and allowable bearing capacity of on-site soils or other foundation support system for the proposed construction.

### **NJEDA & City of Camden School District Site Feasibility Investigation Camden, Camden County, NJ**

Site feasibility investigation, environmental and geotechnical engineering, land surveying, and architecture design services for a proposed new 95,368 SF elementary school to serve approximately 609 students. The proposed site is a former industrial facility and is currently being used as a commercial business. Other services included boundary, topographic and utility surveys, preliminary environmental assessment (PA), environmental site investigation (SI), UST preliminary assessment investigation, soil and groundwater investigation and analysis, geotechnical subsurface soils investigation, wetlands investigation, stream encroachment determination, utility investigation, asbestos/lead paint/PCB investigation, asbestos abatement services and demolition plans and architectural pre-design services.

### **Improvements to Intermediate and High School Voorhees, Camden County, NJ**

Civil engineering services associated with improvements to be undertaken at the Eastern Camden County Regional Intermediate and High School. Improvements include a 19,500 SF parking lot expansion, 500 LF of service road installation adjacent to the proposed parking lot including ingress/egress onto Laurel Oak Road, and re-grading of the area immediately south and east of the exiting soccer field to control stormwater runoff. Other services included supplemental topographic survey, stormwater infiltration evaluation (evaluate soil conditions and water infiltration rates for stormwater management design), schematic design, contract documents, site plans: dimension and circulation plan, grading and utility plan and profiles, soil erosion and sediment control, drainage report, lighting plan, and construction specifications and cost estimate; and construction administration services.



Tab 4

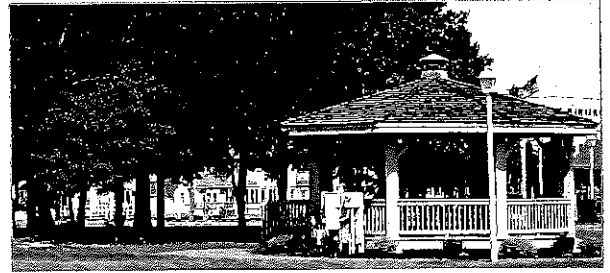
# Maser Consulting P.A.



## Landscape Architecture Services

Maser Consulting provides professional landscape architecture services to both the public and private sectors for residential, commercial, educational, recreational, governmental, institutional, and transportation projects. Our staff of Licensed and Registered Landscape Architects and LEED Accredited Professionals are experienced in all facets of planning, design, and construction administration and inspection.

Our designs enhance outdoor spaces by balancing community needs with environmental resources, utilizing plant materials as well as architectural hardscape amenities. Our planning services combine the ecological, social, aesthetic, and economic aspects of sustainability with the desired land development, putting the final touch on streetscapes, parks, playgrounds, recreational sites, walkways, and paths that include ADA amenities that enable everyone to participate in these spaces.



### Services

- Concept & Site Planning
- LEED & Sustainable Design
- Streetscape & Urban Design
- Park & Recreation Design
- Athletic Field & Court Design
- Site & Athletic Field Lighting
- Planting Plans
- Playground Design
- Playground Inspections
- Vegetation Inventories, Analysis & Maintenance Plans
- Certified Tree Experts
- Barrier Free Compliance Review & Design
- Expert Witness Testimony
- Irrigation Design
- Construction Administration





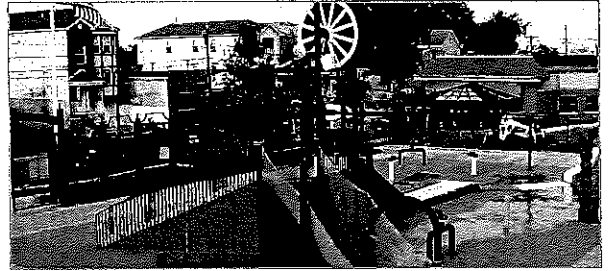
# Maser Consulting P.A.



## Recreational & Sports Services

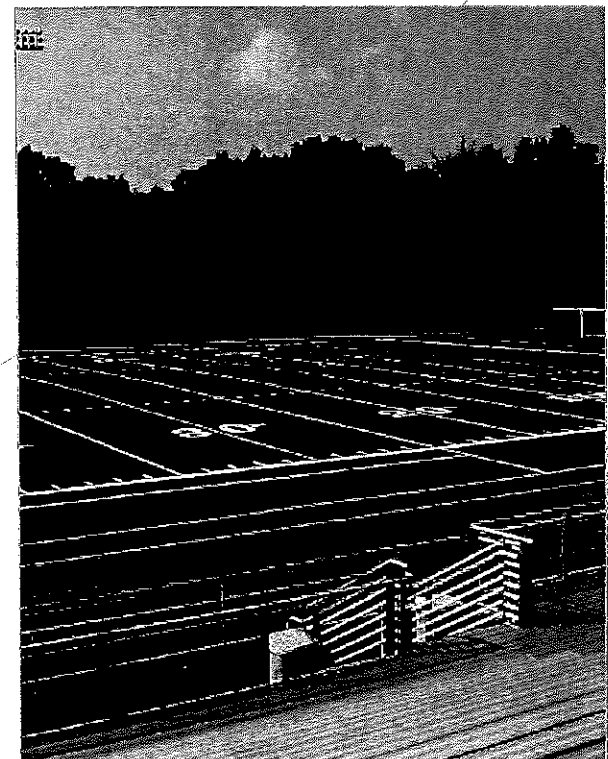
Maser Consulting is uniquely outfitted to improve any recreational space, municipal or private, through creative, conceptual design, and management plans that are sensitive to the environment; respectful of preserving natural resources; and effectively optimize the use of available land. Our services include the design and/or re-design of open space including sport complexes, natural turf fields, synthetic turf fields, associated sports lighting, water splash parks, nature trails, playgrounds, and grant application services to help offset costs so you can achieve your goals.

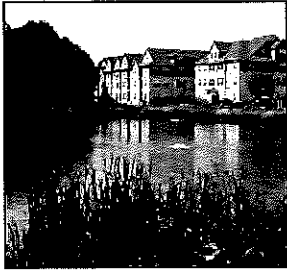
Comprised of engineers, planners, landscape architects, and environmental scientists, our professional design team believes that every project deserves an individualistic approach. Their goal is to keep project costs in-line and maintain the balance between man and nature, while providing the kind of optimal accessibility and usage to recreational open space that delivers a social value that enhances the quality of life.



### Services

- Recreation Master Plans
- Conceptual Park Planning
- Municipal & Urban Park Design
- Athletic Field & Court Design
- Playground Design
- Playground Safety Inspections
- Aquatic Facilities
- Golf Amenities
- Landscape & Lighting Design
- Athletic Field Sports Lighting
- Grant & Funding Assistance





## Stormwater Management Services

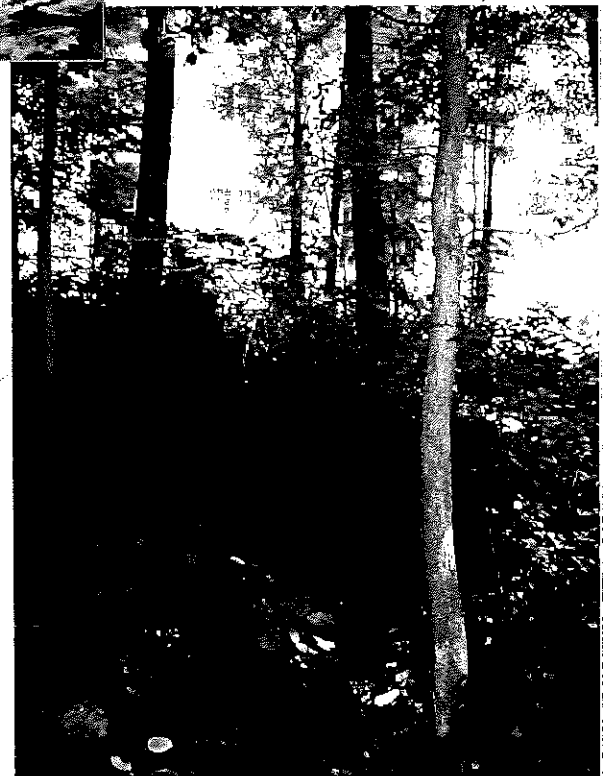
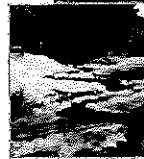
The professionals at Maser Consulting have extensive experience in providing all aspects of stormwater management to the public and private sectors. Our specialists work closely with all related disciplines including hydrologic, hydraulic, dam engineering, ecological, and environmental services to ensure 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.

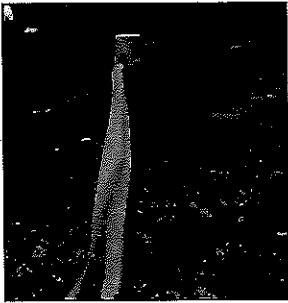


### Services

- 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



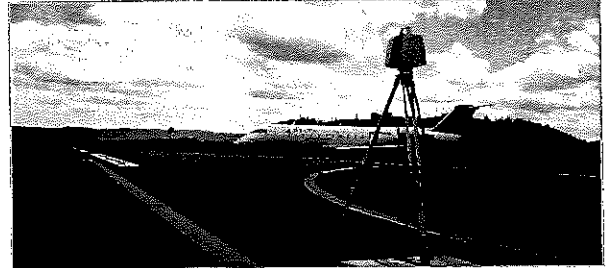
# Maser Consulting P.A.



## Land Survey Measurement Services

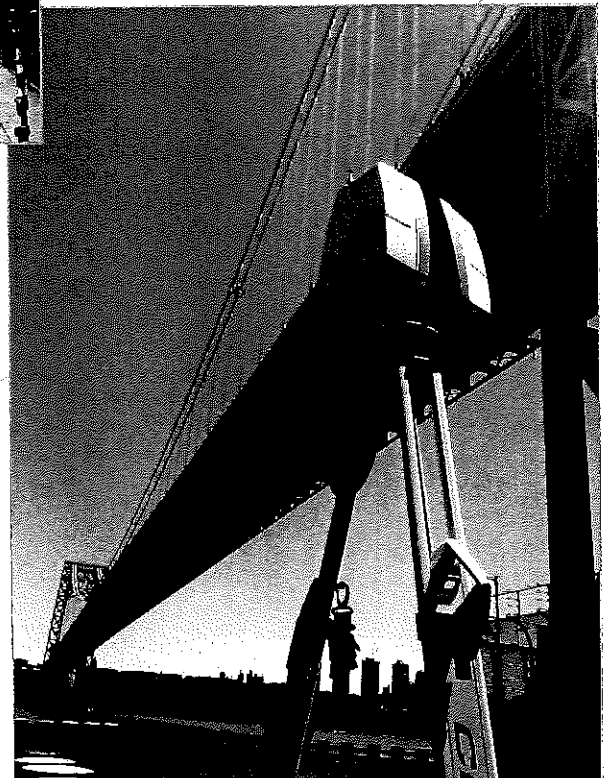
Maser Consulting's professionally licensed land surveyors, highly-trained office technicians and field crews are prepared to work seamlessly together to provide our clients with the most responsive and consistent professional Survey services available.

We utilize the most technologically advanced equipment available ensuring that our clients are receiving the most accurate surveying and measurement services. Our team is as equally adept in providing traditional land surveying as they are providing rail and track surveying, and both static and mobile 3D hi-definition laser scanning.



### Services

- 3D High Definition Laser Scanning
- Mobile LiDAR Mapping
- Amberg Rail & Tunnel Surveying
- GPS Surveying
- ALTA/ACSM Land Title Surveys
- Topographic & Boundary Surveys
- Pipeline & Utility ROW Surveying
- GIS Mapping
- Environmental Site Remediation Surveys
- Highway Route Surveys
- Tax Map Updates
- Construction Stake-Outs
- As-Built Surveys
- Hydrographic & Wetlands Surveys
- Aerial Photo Control For Mapping

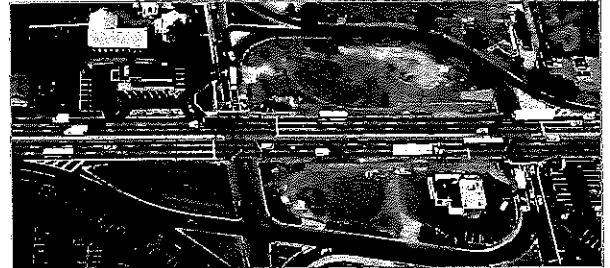


# Maser Consulting P.A.



## Transportation/Traffic Engineering

Maser Consulting provides a full spectrum of traffic and transportation engineering services to both the public and private sectors. Our team of experienced professionals offer all aspects of transportation analysis, design, and planning with the added benefit of a diverse set of comprehensive, associated in-house services that seamlessly support our traffic and transportation projects.

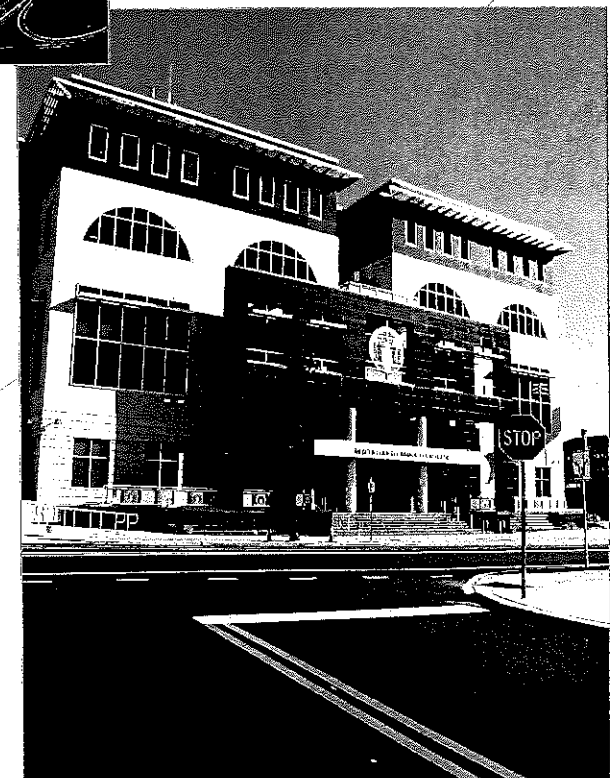
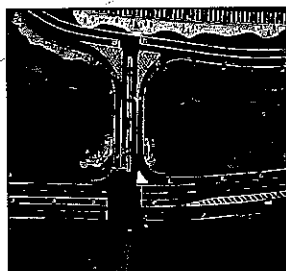


Our in-depth knowledge of the regulatory process and our established working relationships with various local, county, state, and federal agencies facilitate successful project completion. Our expertise in performing feasibility studies, concept development, planning and design, construction administration, inspection, traffic improvements and management, helps connect communities with the surrounding environment through effective roadway and transportation design.



### Services

- Roadway Design
- Corridor Analysis
- Transportation Planning
- Traffic Impact Studies
- Traffic Signals
- Parking and Traffic Studies
- Wayfinding Sign Systems
- Smart Growth Studies
- Transit Oriented Developments
- Rail Crossing Safety
- Quiet Zones
- Roadway Safety Audits
- Transportation Improvement Districts
- Highway Access Applications
- Expert Testimony
- Noise Studies

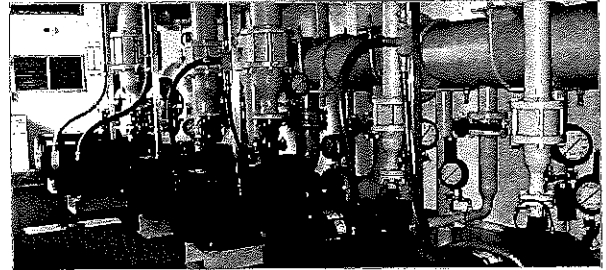


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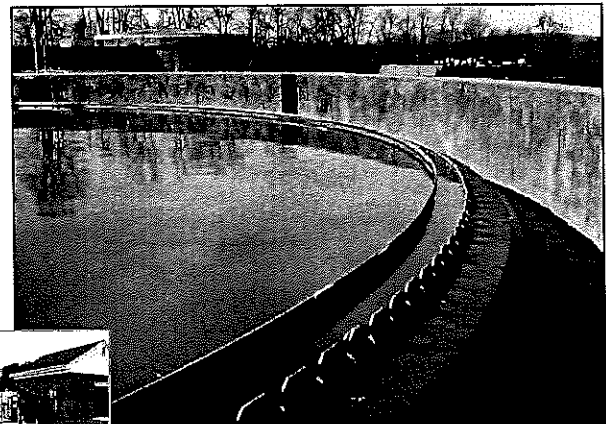


## Water/Wastewater Engineering

Water and wastewater management presents unique challenges from environmental, health, and economic issues, to regulatory concerns. The specialists at Maser Consulting comprehend these complexities and apply the value of water as a precious natural resource in all areas of our designs, studies, and master-planning. We are qualified to develop creative and effective solutions for any water management project and are dedicated to ensuring that communities are provided with safe, consistent, water and wastewater distribution, collection, and treatment.

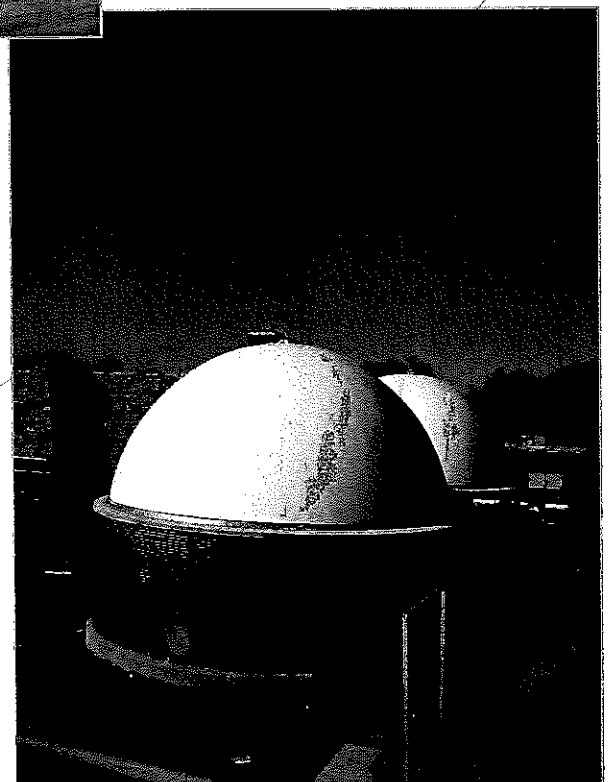


Our professionals employ the latest technological advances and regulatory updates that are essential for proper ongoing water management and paramount to the successful daily management, future growth, and overall wellbeing of our surrounding communities.



### Services

- Master Planning
- Capital Improvements & System Maintenance Planning
- Design of Treatment Plants
- Design of Pumping & Meter Facilities
- Design of Sewer Collection & Water Distribution Systems
- Inflow/Infiltration Studies
- Rehabilitation
- Distribution System Modeling
- Regulatory Permitting & Compliance
- Construction Administration Inspection
- Sludge Management & Disposal
- Hydrogeologic Investigations
- Grants & Funding Assessments
- User Rate Studies
- Environmental Assessments
- Subsurface Soil Investigations
- Structural Design



# Maser Consulting P.A.

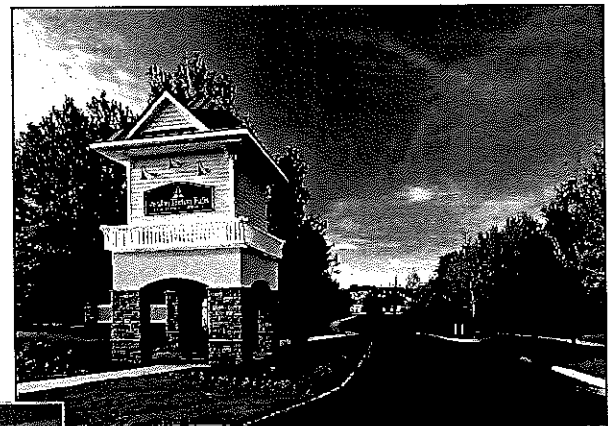


## Civil & Site Engineering

Maser Consulting engages with our clients as a strategic partner providing complete civil and site engineering services to both public and private clients for uses including residential, affordable housing, commercial office, retail, financial, educational, recreational, restaurant, healthcare, landfill, energy, industrial, warehouse and governmental. This partnership begins with comprehensive site feasibility evaluations as part of the due diligence process to identify potential pitfalls and implement strategies to overcome them. We have extensive experience in traditional development as well as mixed use, neo-traditional, redevelopment, urban and brownfield projects.

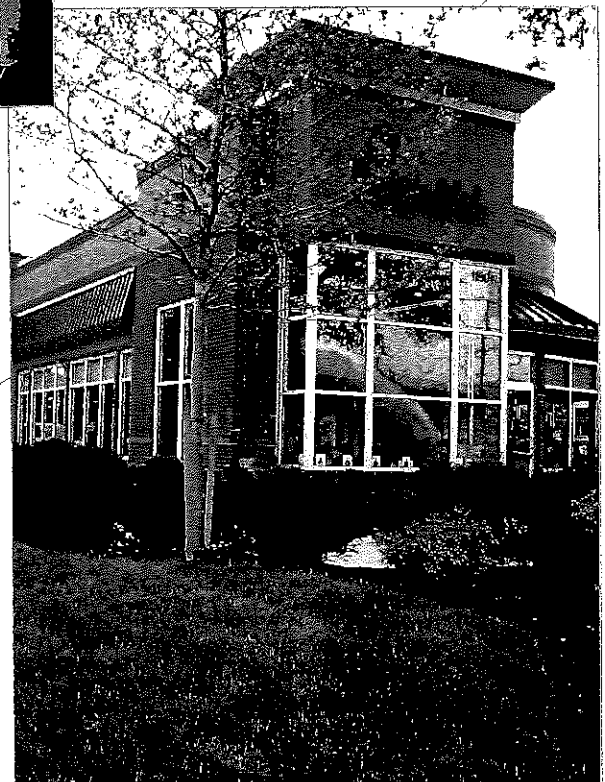
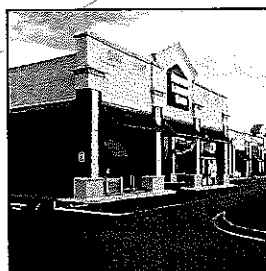


We are able to capitalize on our robust in-house capabilities and experience during the land planning and entitlement process thereby minimizing the need for future plan changes and delays. We have an outstanding track record of highlighting the benefits and attributes of each project with dynamic and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

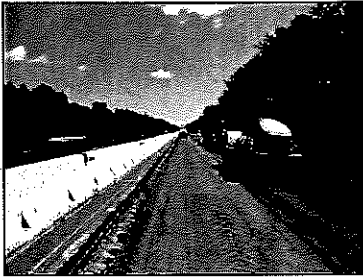


## Services

- 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



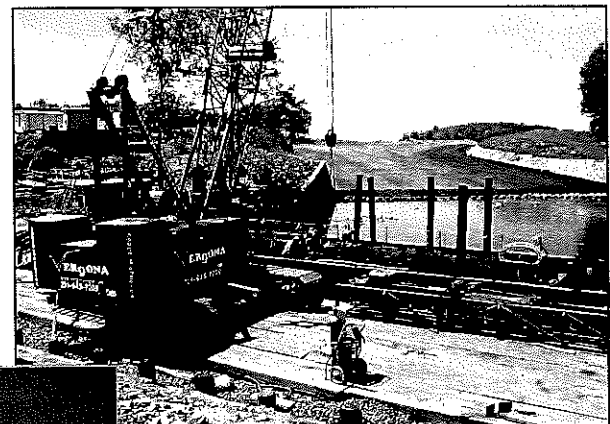
# Maser Consulting P.A.



## Construction Inspection and Administration

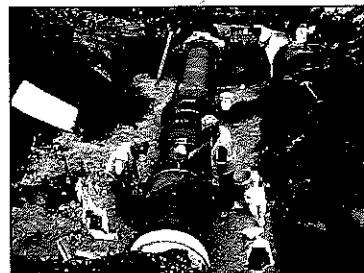
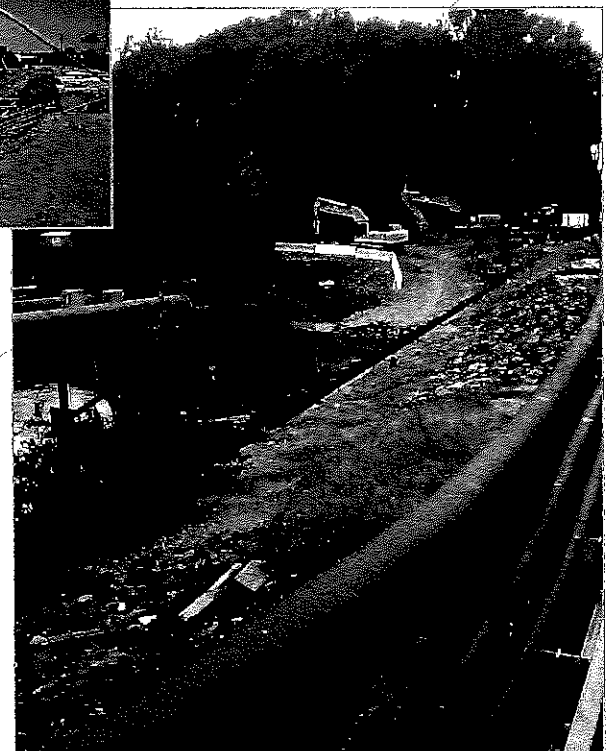
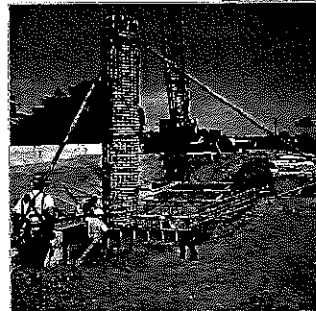
Maser Consulting's professional engineers and technicians successfully oversee project construction from pre-construction through finalization with an outstanding track record for cost and schedule containment. Our ACI, SAT, and NICET Certified construction professionals have extensive on-the-job experience in supervision, observation, 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. We work with our clients to achieve the optimum value, schedule, and project quality for heavy highway, single and multi-span bridges, intersection and traffic signal improvements, marine improvements, water/ wastewater transmission, power and gas transmission, park and recreation construction, and condition assessment and asset inventory.

Our construction professionals understand the impact construction projects have on the surrounding communities and foster public relations and communications with the local business owners, residents, and elected officials in the surrounding communities.



### Services

- Scoping & Feasibility Studies
- Construction Supervision
- Project Documentation
- Submittal & Design Review
- Critical Path Method (CPM)
- Construction Plan Analysis
- Field Inspection
- Project Scheduling
- Change Order & Field Conflict Resolution
- Quality Control
- Field Material Testing
- Resident Engineering
- Owner's Representation
- Expert Witness Testimony



# Maser Consulting P.A.

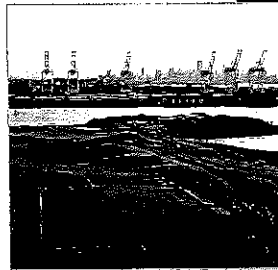


## Environmental Services

Maser Consulting's Professional Team of environmental experts and Licensed Site Remediation Professionals (LSRPs) provide environmental investigation and site remediation services for both the public and private sectors. They work closely with all related engineering disciplines and strive to seek a responsible balance between the preservation of natural resources and the needs of the client.

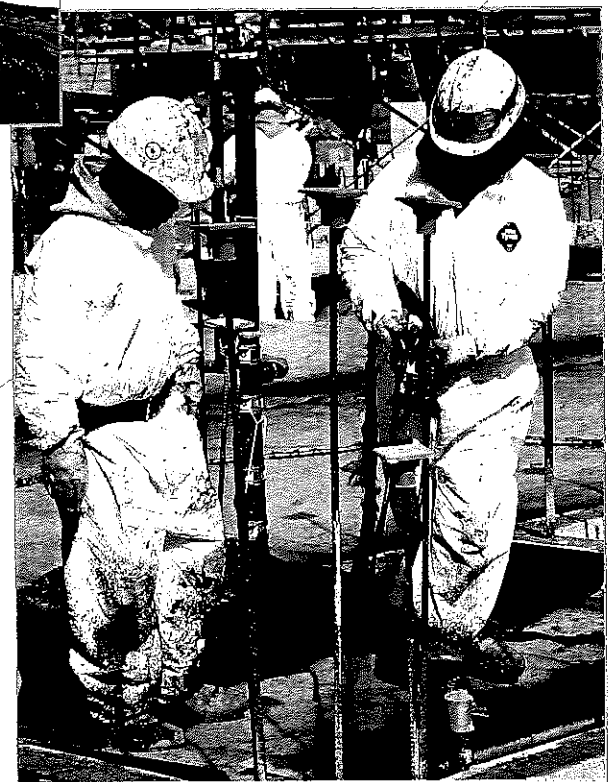
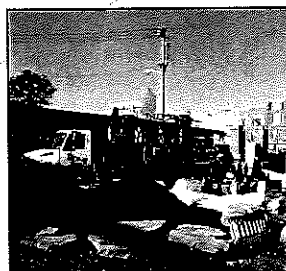


Our Environmental Professionals are proficient in site remediation and employ a diverse range of services that focus on any environmental situation including regulatory compliance and permitting; site assessment and remediation; water and resource management; air quality studies; grant and funding opportunities; and litigation support.



## Services

- Regulatory Compliance/Permitting
- Brownfield Redevelopment
- Groundwater Resource Development
- Hydrogeologic Studies
- Water Allocation Permitting
- ISRA Case Management
- Impact Statements & Assessments
- Phase I & II Environmental Audits
- Surface Water Body Studies
- Air Quality Studies
- Noise Studies
- NJPDES Permits
- Grants & Loans
- UST Compliancy
- Litigation Support





# Maser Consulting P.A.

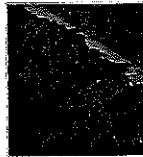
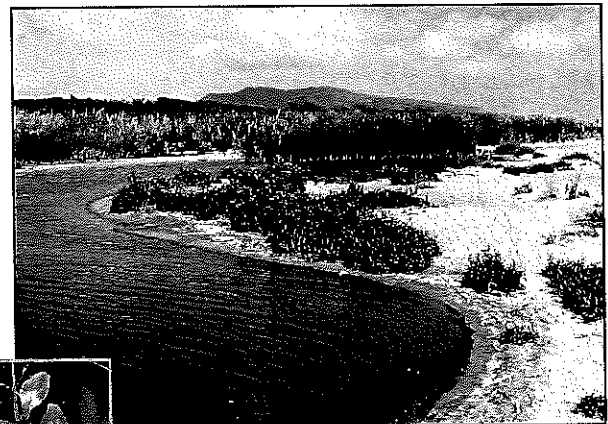


## Ecological Services

Maser Consulting provides ecological services regarding all facets of land development and conservation to a broad cross-section of public and private sector clients. Our planning, field design, natural resource assessment, and oversight services balance the needs of the development community, as well as municipalities in an effort to restore and protect our natural resources for future generations. Maser Consulting's staff of ecological professionals have the technical expertise, knowledge, regulatory background, and relationships to work effectively with the appropriate local, county, state, and federal regulatory agencies concerning important ecological issues.



Our ecological experts are fully alert to the complexities of ever-changing regulations affecting land use and provide a full-spectrum of scientific management and conservation plan services; ecological restoration; environmental impact statements; threatened and endangered species studies; regulatory compliance; state and federal permitting; wetland delineation; and expert testimony.



## Services

- Federal & State Regulatory Compliance & Permitting
- Wetland Identification & Characterization
- Habitat Assessments
- Environmental Impact Studies (NEPA, SEQRA, Local)
- Biological Investigations & Evaluations
- Ecological Restoration/Mitigation
- Threatened, Endangered & Rare Plant & Animal Assessments





## Geotechnical Engineering

Our Geotechnical Professionals provide innovative and cost-effective design and consultation services related to subsurface site characterization; foundation evaluation; slope stability analysis; earthwork criteria; earth retaining structures for site development and infrastructure projects; dam inspection, repair, and restoration designs; and construction dewatering designs. Strong interdepartmental communications streamline these services to blend with other in-house disciplines during the planning, design, and construction phases which ensure practical and efficient design.



Our state-of-the-art, on-site, soil testing laboratory is fully-owned and equipped to provide responsive and accurate analysis. Our highly trained geotechnical staff provides our clients with the assurance of the highest testing standards, analysis, and service.



### Services

- Subsurface Explorations
- Site Characterizations
- Soil & Rock Mechanics
- Pavement Designs
- Dam Designs/Inspections
- Groundwater Observations
- Shallow & Deep Foundations
- Field & Laboratory Testing
- Underdrain Designs
- Slope Stability Analysis
- Ground Modification
- Geophysical Surveys
- Retaining Structure
- Braced Excavations
- Marine Structures
- Forensic Engineering
- Expert Testimony



Tab 5



**TOWNSHIP OF UNION BOARD OF EDUCATION, UNION COUNTY, NJ**  
**RATES ARE EFFECTIVE THROUGH JUNE 5, 2015 THRU JUNE 4, 2016**

Our professionals provide consulting services in the following disciplines at the hourly rates listed below:

**Engineering Services**

- Civil
- Construction Administration
- Municipal Services
- Structural
- Traffic and Transportation
- Wastewater Management
- Water Services

**Other Technical Services**

- Environmental
- Regulatory Compliance
- Grants
- GIS
- Recreation and Landscape Design
- Planning
- Surveying

**TECHNICAL STAFF RATES**

BILLING TITLES	HOURLY RATES
Senior Project Professional	165.00
Project Professional	160.00
Project Manager	155.00
Senior Technical Professional	140.00
Project Specialist	135.00
Senior Technical Specialist	130.00
Senior Specialist	120.00
Technical Specialist	110.00
Specialist	100.00
Senior Data Technician	95.00
Senior Technical Assistant	85.00
Technical Assistant	75.00
Data Technician	65.00
Survey Crew -- 2 Man	200.00
Survey Crew -- 1 Man	170.00
Expert	225.00
Sr. LSRP	210.00
LSRP	180.00

**REIMBURSABLE EXPENSES**

General Expenses	Cost + 15%
Mileage Reimbursement*	0.56 / Per Mile
Travel (Hotel, Airfare, Meals)	Cost
Printing	2.85/Each
Computer Mylar's / Color Plots	40.00/Each
Color Copies	1.50/Each
Document Binding	3.00/Each
Compact Disk CD/DVD	45.00/Each
Bulk Printing	Cost
Sub-Consultants/Sub-Contractors	Cost + 15%

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

Tab 6

STATE OF NEW JERSEY  
BUSINESS REGISTRATION CERTIFICATE  
FOR STATE AGENCY AND CASINO SERVICE CONTRACTORS

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

TAXPAYER NAME:

MASER CONSULTING P.A.

TAXPAYER IDENTIFICATION#:

222-651-610/000

ADDRESS:

331 NEWMAN SPRINGS RD  
RED BANK NJ 07701-5699

EFFECTIVE DATE:

10/15/85

FORM-BRC(08-01)

TRADE NAME:

MASER ASSOCIATES

SEQUENCE NUMBER:

0099895

ISSUANCE DATE:

06/08/04

*J.P. S. Tully*  
Acting Director

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

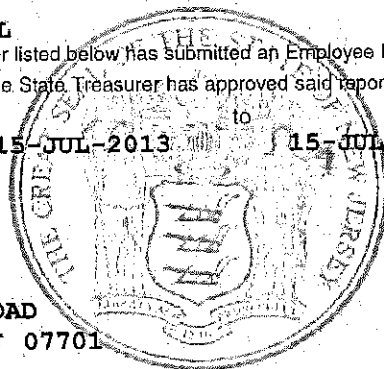
# CERTIFICATE OF EMPLOYEE INFORMATION REPORT <sup>5579</sup>


## 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-2013 to 15-JUL-2016

**MASER CONSULTING P.A.  
331 NEWMAN SPRINGS ROAD  
RED BANK NJ 07701**



  
 Andrew P. Sidamon-Eristoff  
 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  
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, 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

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](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 & Property, CCAU, EEO Monitoring Program as may be requested by the office from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Division of Purchase & Property, CCAU, EEO Monitoring Program for conducting a compliance investigation pursuant to Subchapter 10 of the Administrative Code at N.J.A.C. 17:27.

  
 Richard M. Maser, CEO







## **CORPORATE HEADQUARTERS**

331 Newman Springs Road, Suite 203  
Red Bank, NJ 07701

## **REGIONAL OFFICES**

### **New Jersey**

Clinton ■ Hamilton ■ Marmora  
Mt. Arlington ■ Mt. Laurel

### **New York**

Albany ■ Chestnut Ridge  
Newburgh ■ Westchester

### **Pennsylvania**

Bethlehem ■ Exton ■ Philadelphia

### **Virginia**

Sterling ■ Norfolk

### **Maryland**

Columbia

### **Florida**

Tampa

### **New Mexico**

Albuquerque



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