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MASER CONSULTING P.A.

Response to Request for Proposals

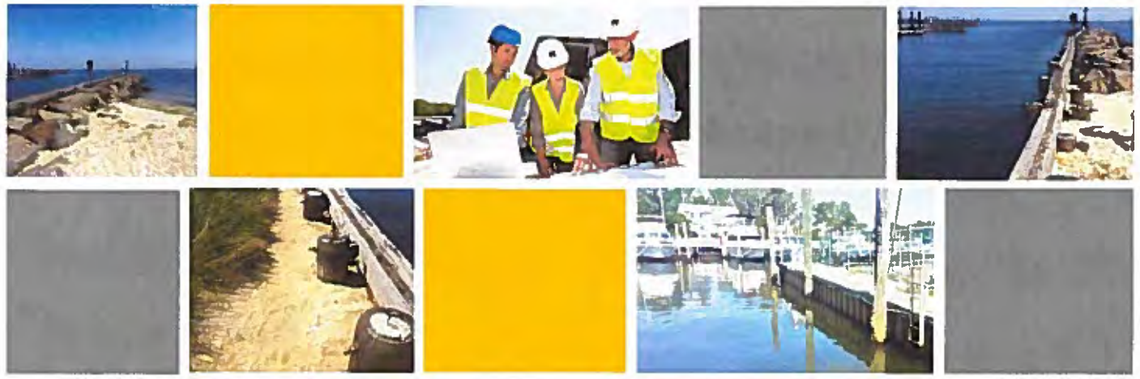
Submitted to:

Department of the Treasury

DPMC Project No.:P1135-00

Bulkhead Replacement - Leonardo State Marina

Leonardo, Monmouth County, NJ



Submitted by:

Maser Consulting P.A.

331 Newman Springs Road, Suite 203

Red Bank, NJ 07701

Phone: 877.627.3772

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TREASURY DPMC
PROCUREMENT

July 7, 2016

Bill Mahan, DPMC Contract Procurement Group
Department of Treasury
Division of Property Management & Construction
Contracts & Procurement Unit
33 West State Street, 9th Floor, Plan Room
Trenton, NJ 08608

RE: Technical Proposal for
DPMC Project No.: P1135-00, Bulkhead Replacement – Leonardo State Marina
Leonardo, Monmouth County, NJ
MC Proposal No. 16001667P

Dear Mr. Mahan:

Maser Consulting P.A. appreciates the opportunity to submit our proposal for DPMC Project No. P1135-00, Bulkhead Replacement – Leonardo State Marina, Leonardo, Monmouth County, NJ. As requested in the Request for Proposals, we have included one (1) original and five (5) copies of our Technical Proposal and one (1) original and five (5) copies of our Fee Proposal, in separately sealed envelopes.

Maser Consulting is an award-winning, multi-disciplined firm with a team of experienced professionals who have been providing an extensive array of waterfront services to clients throughout New York and New Jersey since 1984. As you review this proposal, you will see that Maser Consulting and the project team have experience and expertise with bulkhead replacement, rehabilitation of jetties and similar shoreline structures. Furthermore, Maser Consulting - and more specifically the **Project Manager for this project, Richard C. Maloney, PE – has extensive experience working on Department of Property Management & Construction (DPMC) and Bureau of Coastal Engineering (BCE) projects,** making us very familiar with the procedures and requirements of the agency. We have worked as prime consultant and sub-consultant on many DPMC projects over the years, including several on-going projects, including the Liberty State Park Ferry Slip Reconstruction.

Maser Consulting employs over 600 experienced and knowledgeable professionals in a wide variety of areas and expertise, and our staff consists of structural engineers, marine engineers, civil engineers, environmental permitting specialists, surveyors, construction administrators/inspectors and many other disciplines that have the experience to provide the complete design team necessary

for the successful completion of this project. Maser Consulting is pre-qualified with the NJ DPMC in all required disciplines: **P012 Marine Engineering, P017 Hydrographic Surveying and P025 Estimating/ Cost Analysis. For this project, all of the services will be performed by in-house staff. Having all services in-house will provide us with full control and a better ability to maintain the critical schedule for this project.**

Outlined below are five projects of similar scope and complexity that the Maser Consulting professionals have successfully performed over the last several years.

Leonardo State Marina Jetty Replacement, Middletown Township, NJ
This project involved the replacement of the jetty on the western side of the entrance channel of the marina from strong wave action that frequently deposits sand along the Bayshore. The existing jetty was severely damaged and posed a hazard by allowing sand to migrate in to the channel. Marine, Structural and Permitting engineering services were performed for the design and replacement of the 270 linear foot jetty, as well as the design of additional site improvements. Wave modelling was utilized to determine design forces for the jetty design. **This project was administered by the NJ DPMC. The design was reviewed and construction administered by the BCE. Mr. Maloney was the Project Manager for this project.** Construction Cost: $700,000.

Forked River State Marina Bulkhead and Dock Replacement, Forked River, NJ
This project involved the replacement of bulkhead along the southern half of the marina, and replacements to dock structures, dock amenities, boat ramp and maintenance dredging. The existing bulkhead contained extensive deterioration and holes. A portion of the marina had fallen into dis-repair and the mudline had shoaled up. Marine, Structural and Permitting engineering services were performed for this project. **This project was administered by the NJ DPMC. The design was reviewed and construction administered by the BCE. Mr. Maloney was the Project Manager for this project.** Construction Cost: $2,000,000.

Keyport Waterfront District Rehabilitation, City of Keyport, NJ
This project involved the Revitalization of the historic waterfront district which had experienced extensive wear from frequent northeastern storms over the years. This project included over 1,400 linear feet of waterfront that was exposed to a large northeastern fetch that had resulted in severe wave action. Maser Consulting professionals performed not only wave analysis for the project, but were involved with extensive coordination with the Army Corps of Engineers regarding the wave studies for the design of the new bulkhead including splash pad requirements to counter act erosion. **Further, this project was funded, reviewed and administered by the BCE. Mr. Maloney was**

the Project Manager for this project and has developed a good working knowledge of the BCE procedures from not only this project but several others since this project. Construction Cost: 3,800,000.

Amherst Inlet Jetty Extension and Shore Stabilization, Township of Berkeley, NJ
The mouth of the Amherst Inlet opening into Barnegat Bay is subject to severe erosion from the tidal currents that deposit sand in the inlet, causing bank failure during high flood flows. **Funding from the BCE enabled construction of a new breakwater and an extension of the stone jetty** to help protect the shoreline, and to remove sand to widen the Amherst Channel to enable safe passage of boats. This project also provided protection from wave action resulting from tidal changes, rainfall, and extreme weather by inhibiting the longshore transport of sediment that shoals the mouth of the inlet. Maser professionals provided the marine engineering and construction administration to bring this project to completion. **Project team member Mr. Andrew Previti, PE, was the Project Manager for this project.** Construction Cost: $85,000.

Liberty State Park South Shoreline Rehabilitation, City of Jersey City, NJ
This project involved a new rock slope stabilization and walkway improvements to replace a failing bulkhead and relieving platform along the south shoreline of Liberty State Park. Through a thorough design investigation the revetment rock slope stabilization was determined to be the most cost effective and maintenance-friendly design. Wave modelling was utilized to provide a superior wave energy dissipation that also had as minimal impact on the local marine environment. **This project was administered by the NJ DPMC. We consulted with BCE during our investigative phase. Mr. Maloney was the Project Manager for this project.** Construction Cost: $3,000,000.

In addition to these five projects, Mr. Maloney has managed miles of bulkhead replacement projects throughout New Jersey and New York.

On behalf of Maser Consulting, I would like to thank you for the opportunity to submit this proposal. We look forward to continuing our relationship with the DPMC and the BCE. Should you have any questions or require any additional information, please do not hesitate to contact me by phone at

Very truly yours,
MASER CONSULTING P.A.

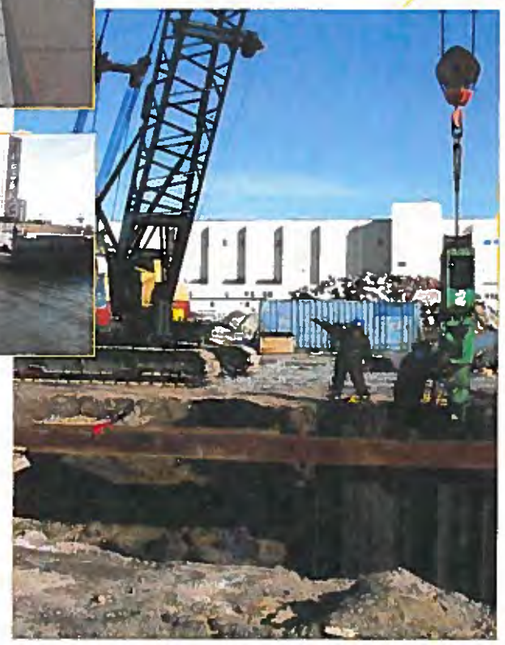
Richard C. Maloney, P.E.
Discipline Leader – Bridges and Structures

Maser Consulting P.A.

Waterfront Engineering

Maser Consulting's professionals provide Waterfront Engineering services to a wide variety of clients that include waterfront industries; marina and harbor port owners; coastal developers; local, state, and federal governmental agencies; and utility companies. Our firm is a regional leader in the design, permitting, and construction administration of waterfront development and has substantial experience managing large marine construction activities. We have particular expertise in navigating the complex permitting process associated with the sensitive waterfront environments and the specifics of coastal regulatory issues.

One of our biggest advantages is the collective expertise of our multi-disciplined marine team that enables us to provide complete project engineering in-house, under one umbrella, through our waterfront civil and structural engineers, permitting specialists, surveyors, and scientists. Together, we make every effort to ensure that each project and goal will be met in the most efficient and cost-effective way possible.



Services

- Structural Rehabilitation Design
- Shoreline Stabilization
- Beach Replenishment
- Marina & Boat Ramp Design
- Waterfront Infrastructure Design
- Seawall & Bulkhead Design, Inspection & Permitting
- Waterfront Infrastructure Design
- Docks, Piers, Platforms & Breakwater Design
- Shoreline Stabilization Inspection & Damage Assessments
- Hydrographic Surveying
- FEMA Surveys & Flood Elevation Certification
- Riparian, Lease & License Investigation
- Waterfront Development & CAFRA Applications
- Corps of Engineers, Section 404 & 10 Applications
- Contract Administration & Inspection
- Wetlands Delineation, Mapping & Mitigation
- Contaminated Sediment Analysis
- Ecosystem Restoration Design
- Conceptual Planning

Leonardo State Marina Jetty Replacement

Middletown Township, Monmouth County, NJ

Project Highlights

Client:
New Jersey Department of Treasury
Division of Property Management and Construction
20 West State Street, 3rd Floor
Trenton, NJ 08625

Contact:
NJDEP Office of Resource Development

Phone:

Construction Cost:
$700,000

Completion:
2010

Project Description

The jetty at Leonardo State Marina protects the entrance channel of the marina from strong wave action that frequently deposits sand along the bay shore. The existing jetty was severely deteriorated and posed a hazard by allowing sand to migrate into the entrance channel of the marina. The accumulation of this sand was prohibiting larger boats from entering or leaving the marina at low tide.

Our professionals provided waterfront and structural engineering services for the design and replacement of over 270 LF of steel jetty, as well as for the design of additional site improvements to tie the proposed jetty replacement into the existing landside features. Work was coordinated with the New Jersey Department of Environmental Protection and Army Corps of Engineers to obtain the applicable permits.

Services Provided

- Structural Engineering
- Waterfront Engineering
- Civil/Site Engineering
- Construction Cost Estimating

Services provided for this project were performed by professionals at Maser Consulting while previously employed by another engineering firm.

Keyport Waterfront District Revitalization

Borough of Keyport, Monmouth County, NJ

Project Highlights

Client:
Borough of Keyport
70 West Front Street
Keyport, NJ 07735

Contact:
[redacted] Borough Administrator

Phone:
[redacted]

Construction Cost:
$3,800,000

Completion:
2008

Project Description

Retained by the Borough of Keyport to revitalize its historic waterfront district, which had experienced seasonal wear on its bulkhead by frequent northeast storms, as well as overall neglect to the aesthetic value of the waterfront property. In order to rejuvenate the area and breathe life into local businesses surrounding the waterfront, our professionals provided waterfront and structural engineering services for the design and replacement of over 1,400 LF of bulkhead. The physical appearance of the site was also improved through the design of custom railings, lighting, paving, benches, and other site amenities along the waterfront promenade.

These improvements were completed in conjunction with the reconstruction of the William A. Ralph fishing pier, for which our professionals designed an overhead roof structure, floating dock, hand railings, pier lighting, and water service. Together, the improved promenade and fishing pier attract seasonal tourists, provide better waterfront access, and revitalize the waterfront district. The projects were administered and partially funded by the NJDEP—Green Acres division.

Services Provided

- Waterfront Engineering
- Structural Engineering
- Civil/Site Engineering
- Utility Engineering
- Construction Cost Estimating
- Regulatory Coordination

Services provided for this project were performed by professionals at Maser Consulting while previously employed by another engineering firm.

Forked River State Marina Rehabilitation

Lacey Township, Ocean County, NJ

Project Highlights

Client:
New Jersey Department of Treasury
Division of Property Management and Construction
20 West State Street, 3rd Floor
Trenton, NJ 08625

Contact:
NJDEP Office of Resource Development

Phone:

Construction Cost:
$2,000,000

Completion:
2012

Project Description

Provided complete design and construction administration services for the rehabilitation of approximately 1,000 LF of bulkhead and associated marina facilities at Forked River State Marina. The project, which was managed by the NJDEP Bureau of Coastal Engineering, involved structural engineering services for the marina, evaluating the dock/mooring layout, upland access configuration, complete steel sheeting bulkhead design, and complete site and support facility improvements.

The marina design included new dock utility stations, a new concrete boat ramp, and upgrades to the marina's utility systems, as well as additional site improvements to tie the proposed bulkhead and marina improvements into the existing landside features. Construction inspection and administration were also provided in accordance with NJDEP and NJDPMC guidelines.

Services Provided

- Structural Engineering
- Waterfront Engineering
- Civil/Site Engineering
- Construction Cost Estimating

Services provided for this project were performed by professionals at Maser Consulting while previously employed by another engineering firm.

Liberty State Park Bulkhead Repair

City of Jersey City, Hudson County, NJ

Project Highlights

Client:
NJ Department of Treasury
Division of Property Management & Construction
20 West State Street, 3rd Floor
Trenton, NJ 08625

Contact:
[redacted] Project Manager

Phone:
[redacted]

Construction Cost:
$3,000,000

Completion:
2010

Project Description

Designed revetment rock slope stabilization and walkway improvements in keeping with the "Hudson River Waterfront Walkway" standards, to replace the failed walkway section. The complete project scope consisted of removing deteriorated bulkhead and 18,000 tons of historic fill and replacement of revetment rock slope; steel bulkhead; concrete cap; railing; paver walkway; lighting; amenities; earthwork; landscaping; and various site improvements.

In addition, structural and civil engineering services were provided for the design of approximately 1,150 LF of waterfront stabilization and walkway. Through wave modeling, revetment rock slope stabilization was designed to provide superior wave energy dissipation that also has minimal impact on the marine environment. The project team obtained the appropriate marine permits through the New Jersey Department of Environmental Protection (NJDEP) and Army Corps of Engineers (ACOE), as required.

Services Provided

- Structural Engineering
- Civil/Site Engineering
- Waterfront Engineering
- Construction Cost Estimating

Services provided for this project were performed by professionals at Maser Consulting while previously employed by another engineering firm.

Bayonne Military Ocean Terminal BRAC Transfer and Redevelopment

City of Bayonne, Hudson County, NJ

Project Highlights

Client:
Bayonne Local Redevelopment Authority
51 Port Terminal Boulevard, Suite 21
Bayonne, NJ 07002

Contact:

Phone:

Construction Cost:
$200,000,000

Completion:
2013

Project Description

Provided comprehensive engineering and construction administration services for various waterfront projects as part of the redevelopment and Defense Base Realignment and Closure (BRAC) transfer of the Bayonne Military Ocean Terminal, a 420-acre military facility. Our professionals provided structural engineering, civil engineering, and construction services for various projects, including:

- Inspection of bulkheads, platforms, pilings, and dry dock
- New bulkhead designs
- New steel pile-supported platforms
- Rehabilitation and repairs to existing platforms
- Pile/caisson repair and jacketing
- New waterfront walkways and parks
- New pile-supported pier
- Maritime infrastructure
- Shoreline stabilization

Services Provided

- Waterfront Engineering
- Structural Engineering
- Civil/Site Engineering
- Construction Administration

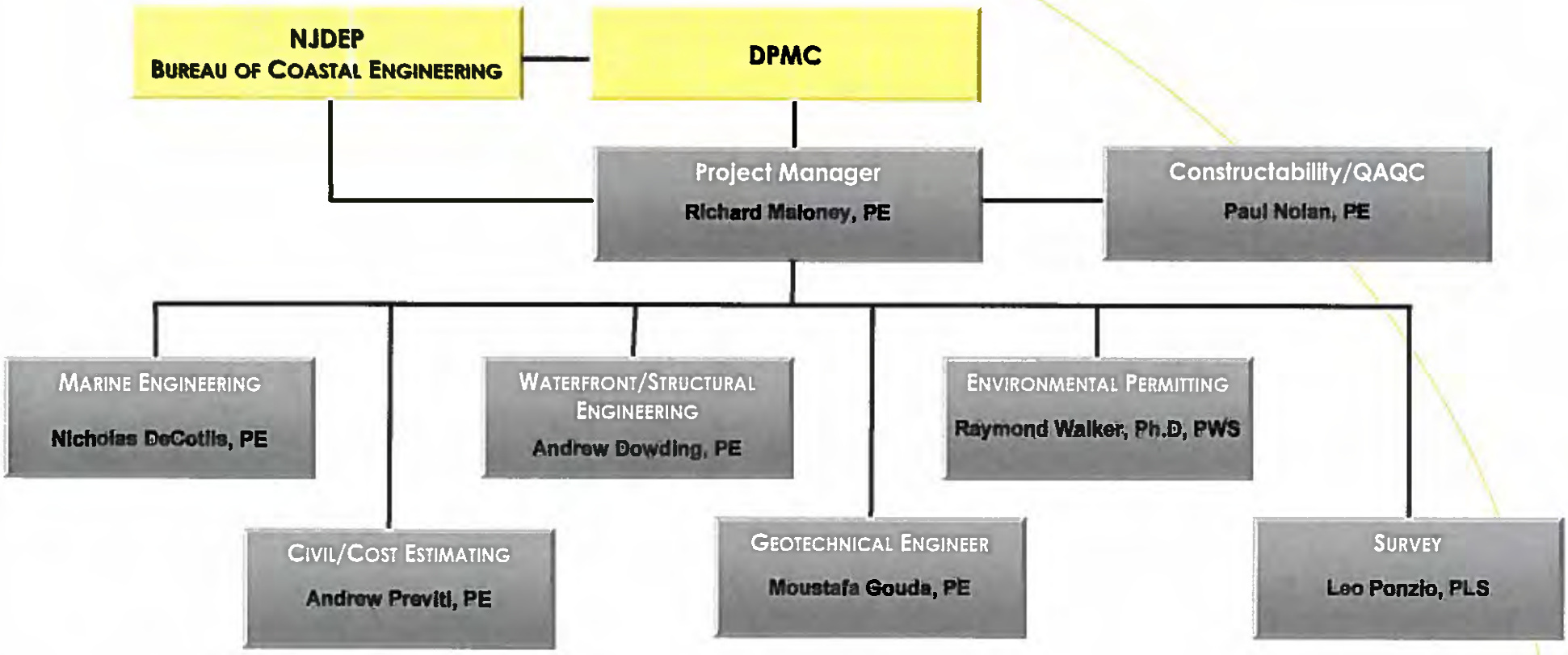
Services provided for this project were performed by professionals at Maser Consulting while previously employed by another engineering firm.

New Jersey Department of the Treasury
Division of Property Management and Construction

Project No. P1135-00

Bulkhead Replacement - Leonardo State Marina - Leonardo, Monmouth County, NJ

Team Organization



MASER CONSULTING P.A.

RICHARD C. MALONEY, PE

Discipline Leader – Structures

EDUCATION

- M.S. Civil/Structural Engineering, University of Notre Dame, 1990
- B.S. Civil Engineering, Villanova University, 1988

PROFESSIONAL REGISTRATIONS

- Professional Engineer (PE) New Jersey, New York, Georgia, Pennsylvania, Texas, Maryland, Ohio, Indiana, North Carolina, South Carolina, Missouri
- Building Inspector for Code Compliance No. 7618HHS, New Jersey

PROFESSIONAL CERTIFICATIONS

- Safety Assessment Professional (SAP),
- National Association of Professional Engineers (NSPE)

PROFESSIONAL AFFILIATIONS

- National Council of Examiners for Engineering & Surveying
- American Society of Civil Engineers
- National Society of Professional Engineers
- International Code Council
- Association of State Dam Safety Officials, New Jersey

EXPERIENCE

Mr. Maloney provides project management and structural engineering services to a wide variety of public and private clients, including government agencies and owners/operators of various facility types. His responsibilities include client relations, project management, and supervision of the preparation of designs and specifications for specialized projects such as waterfront structures, bridges, docks, dams, tunnels, wastewater authorities, drainage facilities, and utilities/infrastructure. Additionally, he is responsible for inter-discipline coordination of architectural and mechanical/electrical/plumbing (MEP) aspects of projects. Mr. Maloney also performs field inspections, code compliance reviews, and is the structural inspector and expert witness for various public and private clients throughout New Jersey.

With over 24 years of experience on numerous projects extending across many states, Mr. Maloney has designed and managed various projects incorporating conventional and unique steel, reinforced concrete, masonry, timber structures, and foundations. He has served as the structural inspector and expert witness for various public and private clients throughout New Jersey, including New Jersey Department of Human Services (NJDHS), City of Hoboken, City of Long Branch, City of Asbury Park, Township of Brick, Township of Lakewood, The Applied Companies, and FM Global.

PROJECTS

Liberty State Park
City of Jersey City, Hudson County, NJ
Project Manager for design and construction administration for shoreline stabilization project along the south side of Liberty State Park. Scope included investigation of failing relieving platform, historic fill testing, and waterfront permitting challenges due to platform and replacement option of utilizing a stone revetment shoreline, as well as wave analysis for shoreline design. Improvements also included new waterfront walkway, rails, lights, and landscaping in conformance with Hudson Waterfront Walkway Standards. Project was coordinated with NJDEP Coastal Engineering and NJDPMC.

Rockaway Shoreline Stabilization
Borough of Queens, Queens County, NY
Structural Principal-in-Charge of inspection, alternatives analysis, and design of 1,400 LF of rock revetment and bulkhead shoreline to replace an existing, failed bulkhead along Jamaica Bay in Rockaway, New York City. Work was coordinated with Hudson Meridian Construction Group, a Construction Manager for the New York City Economic Development Corporation.

Belmar Beachfront Pavilions
Borough of Belmar, Monmouth County, NJ
Principal-in-Charge of the design of the two beachfront multi-story pavilions. Responsibilities include management and coordination with all disciplines involved with the project design, including civil, architectural, and mechanical/electrical/plumbing. Also managed and provided structural design for the buildings, one of which is a two-story, steel-framed assembly-use building, and the other a timber-framed lifeguard/Police building that includes a three-story tower. Both buildings are supported on steel pipe piles and are designed to meet FEMA and ASCE flood loads.

Boardwalk Reconstruction
Borough of Belmar, Monmouth County, NJ
Structural Project Manager for the reconstruction of 1.5 miles of boardwalk and multiple pavilions along the Borough's waterfront that was destroyed by Superstorm Sandy.

Leonardo State Marina Improvements
Middletown Township, Monmouth County, NJ
Project Manager for design and construction administration for new bulkhead, dock, and site and drainage improvements for state marina. Design and contract documents to meet NJDPMC standards.

Post-Sandy Inspections
Township of Brick, Ocean County, NJ
Group Leader for five teams of structural engineers who performed structural inspections for property and dwellings along most of Brick Township's 53 miles of waterfront land, from the many lagoon communities and the bay front, to the barrier island and oceanfront.

Port Liberte Marina and Ferry Terminal
City of Jersey City, Hudson County, NJ
Primary Engineer-in-Charge of all waterfront work, including steel bulkhead designs, ferry terminal and pier, floating docks, waterfront walkways, upland support facilities, and site improvements.

Vopak Terminal Waterfront Improvements
City of Perth Amboy, Middlesex County, NJ
Principal Structural Engineer for the design of waterfront structures at the Vopak storage and transport facility. The project included site design and coordination, mooring analysis, mooring/berthing cell design, pile-supported platform, trestle and catwalk design, fender system design and bulkhead design.

South Brooklyn Marine Terminal Pier 39
Borough of Brooklyn, Kings County, NY
Structural Principal-in-Charge of inspection, alternatives analysis, design, permitting, and construction administration of 1,000 LF of king pile bulkhead along the southern edge of Pier 39. Design included use of soil anchors to avoid disturbance to structures immediately upland. Project also included mooring bollards and fendering system.

Peninsula at Bayonne Harbor (MOTBY Pier)
City of Bayonne, Hudson County, NJ
Structural Engineer-of-Record for the design of over 4,000 LF of various bulkheads, platforms, ferry pier, waterfront walk, and shoreline stabilization along the Army Marine Ocean Terminal Pier. Coordinated project activity with the U.S. Army Corps of Engineers.

Pier Village Waterfront Revitalization
City of Long Branch, Monmouth County, NJ
Structural Engineer for waterfront site work for the City's waterfront revitalization project. Work included rehabilitated and new bulkhead installations, new beachfront boardwalk and gazebos, and other upland site improvements.

Forked River State Marina
Lacey Township, Ocean County, NJ
Project Manager for design and construction administration for new bulkhead, docks, utilities, boat ramp, dredging, and site and drainage improvements for state marina. Design and contract documents met NJDPMC standards.

Keyport Waterfront Improvements
Borough of Keyport, 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. Project coordination with NJDEP Coastal Engineering.

Lobster Shanty
Borough of Point Pleasant, Ocean County, NJ
Project Manager for inspection of an existing pile-supported structure, which contained extensive deterioration and was in need of replacement. New pilings were infeasible due to the structure above. Performed design and inspection for a pile-jacking system of the deteriorated timber pilings in place, restoring original strength and allowing installation of new bracing.

Marine Terminal Bayonne Platform S-1
City of Bayonne, Hudson County, NJ
Structural Engineer-of-Record for complete rehabilitation of 1000-ft long berthing platform. Rehabilitation included steel-reinforced concrete caisson repair and jacketing, platform concrete spalling and crack repairs, new access bridge design, and platform safety improvements.

Hudson Transmission Project
Various Locations, NY & NJ
Structural Engineer-of-Record for all structural aspects of 660 MW electric transmission link project for Prysmian Power Cable & Systems from the PSE&G Ridgefield Park substation to the submarine cable transition in Edgewater, NJ (+/- 18,150 LF) and from the 49th Street substation in New York City to the submarine cable transition point at the Hudson River (+/- 1,915 LF). The distance beneath the Hudson River is estimated to be 16,200 LF. The project included structural design of duct banks, transition pits, precast vaults, utility support crossings, cable support systems, and structural wall penetrations and reconfigurations.

Bayonne Local Redevelopment Authority, Peninsula at Bayonne Harbor
City of Bayonne, Hudson County, NJ
Project Manager for the structural and civil design of various waterfront improvement structures and shoreline stabilization around the perimeter of an old Army base that was transferred to the city of Bayonne for redevelopment.

Assunpink Wildlife Area New Boat Launch Ramp Facility
Upper Freehold Township, Monmouth County, NJ
Project Manager for design and construction administration for new boat launch ramp facility, including new dock and upland support facilities. Design and contract documents to meet NJDPMC standards.

Belmar Marina Renovations
Borough of Belmar, Monmouth County, NJ
Structural Engineer for complete marina overhaul, including bulkhead replacement, new fixed and floating docks, waterfront walkway, and site and drainage improvements.

Sewaren Riverwalk
Woodbridge Township, Middlesex County, NJ
Project Engineer for the development of a riverside walk/park area that included the design of a timber bulkhead, reinforced concrete shoreline walkway, and the reconstruction of roadway.
One Madison Group

East Rutherford Borough, Bergen County, NJ
Structural Engineer for the design of steel bulkhead replacement along Passaic River utilizing the reuse of the existing deadman system. Work included site investigation of existing facilities and upland improvements.

NRG Facility
Astoria, Queens Borough, NY
Structural Engineer responsible for the preliminary investigation of an existing timber crib bulkhead. Preparation of structural inspection report, repair/replacement recommendations, and preliminary costs estimate.

National Liberty
City of Jersey City, Hudson County, NJ
Structural Engineer for design of waterfront timber pier which supports a 1.5-story terminal building and services a new ferry service to New York City.

Deer Head Lake Dam Restoration
Lacey Township, Ocean County, NJ
Structural Engineer responsible for reconstructing the primary dam spillway, which was recommended for replacement by the most recent Dam Inspection Report. As part of the reconstruction of the primary spillway, spillway adequacy studies were made to determine if the secondary spillway was hydraulically required. The original bridge that was located immediately in front of the primary spillway was removed. Scope of work included surveying of the dam as required to facilitate the required work, performing hydrologic and hydraulic analyses on the dam and each of its spillways, preparing a preliminary design report for the proposed dam modifications in accordance with NJDEP Dam Safety Standards (N.J.A.C. 7:20), preparing the applications and documents necessary to file for proposed repairs, and developing an Emergency Action Plan and Operation and Maintenance (O&M) Manual for the new Deer Head Lake Dam, in accordance with current NJDEP Dam Safety Section guidelines.

Beach Boulevard Bridge
Lacey Township, Ocean County, NJ
Principal-in-Charge for the complete replacement of a 230-ft bridge. Design included new foundations, concrete piers, reinforced concrete wing walls, bulkheads, parapets/barriers, and temporary utility support structures. Mr. Maloney was responsible for all aspects of this project, including design, survey, hydraulic analyses, right-of-way investigations, and necessary NJDEP permitting.

Linden Landfill Improvements - Timber Walkway System
City of Linden, Union County, NJ
Designed complete timber walkway system for public access to park area at former landfill. Design included timber piles and framing for extensive public walkway, pedestrian bridges, three viewing platforms, and boat access structure. Coordinated with site planners and landscape architect.

Grasselli Point Industries
City of Linden, Union County, NJ
Designed steel access bridges with concrete approach structures for use by heavy-duty excavators at existing barge unloading facility.

Hoboken Shipyard Shoreline Stabilization
City of Hoboken, Hudson County, NJ
Designed new steel sheet bulkhead to replace failed existing bulkhead, and new pile-supported concrete relieving platform sections adjacent to collapse at Sinatra Drive.

NICHOLAS R. DECOTIIS, PE

Marine Engineer/ Project Manager

EDUCATION

- M.E. Coastal Engineering, Stevens Institute of Technology, 2010
- B.E. Civil Engineering, Stevens Institute of Technology, 2005

PROFESSIONAL REGISTRATIONS

- Professional Engineer (PE) New Jersey

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers

CURRENT APPOINTMENTS

- Belmar Borough, Borough Engineer, Planning Board Engineer

EXPERIENCE

Mr. DeCotiis has 10 years of experience providing services such as project management, design, inspection, preparation of plans and specifications, permit applications, and project funding applications for a wide variety of marine projects. His broad design experience in the marine sector includes all facets of waterfront consulting. His design experience includes the inspection and design of dams and waterfront structures, design of public projects, drainage systems in accordance with current NJDEP stormwater regulations. He also has experience with the structural design of marinas, bulkheads, retaining walls, piers, docks, and other marine projects; wave analysis, hydrologic and hydraulic calculations; and dam rehabilitations.

Mr. DeCotiis has a **Masters of Engineering in Coastal Engineering**.

PROJECTS

Belmar Marina, Various Projects
Borough of Belmar, Monmouth County, NJ
Project Manager/ Design Engineer for the construction of multiple projects including new bulkheads, pier rehabilitations, marina designs, floating docks, fueling station, dredging, comfort facility, municipal boat ramp, and paver riverwalk. The improvements to the marina were part of a multi-phase project using a variety of state and federal grant sources.

Vopak Terminal Perth Amboy
City of Perth Amboy, Middlesex County, NJ
Marine/ Design Engineer for the rehabilitation of the former Hess oil receiving terminal. Responsibilities included the design of waterfront elements including terminal platform and catwalk pilings, berthing fender systems, and other structural elements. Work included berthing load and wave loading analysis.

Rockaway Park Bulkhead Rehabilitation
Rockaway Park, Queens County, NY
Marine Design Engineer as part of team for the construction of a steel bulkhead, concrete retaining wall and stone revetment along Jamaica Bay. The project included the design of a concrete wall, stone revetment, and steel bulkhead with a concrete cap. Performed wave modelling for designs.

American Legion Drive Bulkhead Replacement – Phase II
Borough of Keyport, Monmouth County, NJ
Design Engineer for the construction of a composite bulkhead along the Raritan Bay. The project included the design of a composite bulkhead with a concrete cap, curb, sidewalk, and drainage improvements.

DPMC Liberty State Park Ferry Terminal Reconstruction
City of Jersey City, Hudson County, NJ
Marine Engineer providing engineering design services for the reconstruction of the Liberty State Park ferry terminal and the dredging of the area to provide boat access into and adjacent to the slips and docks. Liberty State Park is one of the highest-visited state parks in New Jersey and is home to the Central Railroad New Jersey (CRRNJ) Terminal and Ferry Terminal, both of which are listed on the State and National Registers of Historic Places. The ferry terminal, consisting of ferry house platforms, fender rack piers, and timber access bridges, was utilized for transferring millions of immigrants that came through Ellis Island. The ferry terminal sustained significant damage from Superstorm Sandy in 2012 and reconstruction was a high priority. The scope of work also included 3D Laser Scanning and an existing conditions inspection survey, including underwater diving, of the dilapidated piers. Using remote sensing, the dolphins and pier data was collected from the safety of the shore without the need for additional marine equipment. Services also included geotechnical soils analysis, full waterfront and structural engineering services, and construction administration.

Trader's Cove Marina
Brick Township, Ocean County, NJ
Provided design services, public bid assistance, and construction administration for repairs to Trader's Cove Marina after it suffered damage in October 2012 from Superstorm Sandy. Immediately following the storm, designs were quickly completed to rebuild a more robust and functional marina. The remnants of the existing destroyed fixed timber docks were removed and replaced with concrete floating docks, which are more resilient to flooding. The project included modifying the layout of the marina in order to increase the number of slips and to facilitate larger vessels. The reconstruction of the marina also included the design of a boat ramp for smaller trailered boats. The design of the docks included full service amenities, such as water and electric service to each slip, and composite decking to match the boardwalk on site. The custom floating breakwater dock, which extends along the perimeter of the marina, dampens waves and protects the interior slips of the marina. The steel pipe guide piles are designed for floods in excess of those experienced during Superstorm Sandy.

Belmar Marina Floating Fuel Dock Modifications
Borough of Belmar, Monmouth County, NJ
Design Engineer responsible for the design of a new fuel dock adjacent to the Ninth Avenue pier in Belmar. The floating fuel dock was constructed to service the boaters in the Shark River. The project included the upgrade of existing underground fuel tanks, as well as the installation of fuel sumps, monitoring equipment, and new pumps. The project also required the installation of a credit card system for purchases, the installation of emergency stop buttons, and an emergency telephone.

Restoration of Darlington Lake Dam
Mahwah Township, Bergen County, NJ
Design Engineer responsible for the rehabilitation of the Darlington Lake Dam, including the installation of a new concrete spillway, outlet works improvements, removal of abandoned spillways, and slope stabilization for overtopping events. Also assisted in securing a Dam Safety Permit for the project with all supporting documents, including a Final Design Report and an Operations and Maintenance Manual.

Ralph Pier Replacement
Borough of Keyport, Monmouth County, NJ
Design Engineer for the construction of a timber fishing pier along the newly renovated waterfront along American Legion Drive. The project included the design of a timber pier complete with decorative railings, shade structure, and lighting.

Restoration of McMillan Reservoir Dam
Mahwah Township, Bergen County, NJ
Design Engineer for the rehabilitation of the McMillan Reservoir Dam, including the installation of a new concrete spillway, outlet works improvements, aluminum gangway, and concrete pressure grouting of the stone spillway face. Also assisted with securing a Dam Safety Permit for the project with all supporting documents, including a Final Design Report and an Operations and Maintenance Manual.

Assistant Township Engineer
Township of Brick, Ocean County, NJ
Responsibilities included overseeing in-house construction, development of capital improvements, and support to the Building Department and the Public Works Department.

Liberty State Park
City of Jersey City, Hudson County, NJ
Marine Design Engineer as part of tram for shoreline stabilization project along the south side of Liberty State Park. Scope included investigation of failing relieving platform, waterfront permitting challenges due to platform and replacement option of utilizing a stone revetment shoreline, as well as wave analysis for shoreline design.

Borough of Belmar, Various Projects
Borough of Belmar, Monmouth County, NJ
Project Manager and Design Engineer for the construction of multiple capital improvement projects throughout the Borough including streetscapes, infrastructure upgrades, landscaping, drainage, flood prevention, and other miscellaneous projects.

Harbor View Park
City of Bayonne, Hudson County, NJ
Design Engineer for a site design project featuring the construction of a waterfront park at the former Military Ocean Terminal in Bayonne (MOTBY). The project included the construction of the park, access roads, parking lot, and site lighting. The park was designed to accommodate the "To the Struggle Against World Terrorism" monument, which was donated by the people of Russia and dedicated to the memory of the victims of September 11th.

Southern Waterfront Improvements
City of Peekskill, Westchester County, NY
Project manager and design Engineer for the construction of waterfront improvements along the riverfront. The project included the construction of a timber boardwalk, timber observation platform, retaining walls, and gazeebo and trellis structures.

Quiet Cove Waterfront Rehabilitation
Town of Poughkeepsie, Dutchess County, NY
Project manager and design Engineer for the construction of waterfront improvements at Quiet Cove. The project included the construction of a steel bulkhead, timber observation platform, stone revetment, and floating kayak launch

ANDREW DOWDING, PE

Assistant Project Manager/Waterfront Structures

EDUCATION

- B.S. Civil Engineering, Villanova University, 2010

PROFESSIONAL REGISTRATIONS

- Professional Engineer (PE) New York

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers

EXPERIENCE

Mr. Dowding has over six years of experience working on structural and waterfront engineering projects, including inspection and evaluation, design of repairs, and new structure design. As Assistant Project Manager, Mr. Dowding performs structural investigations, prepares designs and cost estimates, develops project schedules, and tracks budgets.

PROJECTS

Perdue AgriBusiness Waterfront Structures
Various Locations Nationwide
Engineer responsible for structural investigations and report preparation at various waterfront facilities on the eastern seaboard. Projects included repair designs and cost estimates. Also worked closely with the client contact to streamline the inspection process and attend all necessary client meetings.

Port Newark Container Terminal, PNCT
City of Newark, Essex County, NJ
Engineer responsible for demolition design drawings, as well as design of various structural foundations throughout the site. Also aided project management with schedule development and budget tracking.

Governor's Island Ventilation Building, NYCT
New York City, NY
Engineer responsible for structural modelling and analysis of various hardening alternatives, included coordination with coastal and geotechnical loading scenarios.

Fulton Ferry Landing Routine Inspection, NYCEDC
Brooklyn, New York City, NY
Inspection Team Leader responsible for the topside and underwater investigation of a sheet pile bulkhead, concrete pier, concrete seawall and ferry landing barge. Supervised the divers carrying out Level I, II and III inspection of all elements, including ultrasonic thickness measurements of the steel sheet pile bulkhead. Inspection and subsequent report were completed in compliance with the EDC Waterfront Facilities Maintenance Management System guidelines.

Rehabilitation of Cap Haitien Port
Cap Haitien, Haiti
Inspection Team Leader responsible for the topside and underwater inspection of four waterfront structures. Supervised the divers carrying out Level I, II and III inspection of steel sheet pile bulkhead and pipe piles. Exposed steel was measured via calipers. All readings were used in the STAAD modeling and remaining structural design life calculations.

Coastal New Jersey Beach Erosion Control
Various Locations, Atlantic Coast, NJ
Engineer responsible for design of timber cribbing for outfall extensions into the Atlantic Ocean. Used STAAD modeling to analyze the structure based on pre-determined wave loading and to evaluate design efficiency. Also aided in the production of contract documents, including drawings, specifications, and the engineer's cost estimate.

Brooklyn Bridge, NYCDOT
New York City, NY
On-site Construction Inspector responsible for reviewing various construction practices related to bridge deck replacement. Duties included photo documentation, inspection report summaries, and follow up punch-list inspections.

Pier 11 Gangway Installations, NYCEDC
New York City, NY
On-site Inspector responsible for reviewing installation of ferry terminal gangways. Duties included photo documentation, inspection report summaries, and follow up punch-list inspections.

USCG Station Crisfield Hurricane Sandy Rehabilitation, US Coast Guard
City of Crisfield, Somerset County, MD
Engineer responsible for coordinating and executing multi-discipline site inspection, including complete marine structural data collection. Also responsible for subsequent inspection summaries, evaluation reports, and site-wide rehabilitation design.

Kuwait National Petroleum Company
Kuwait
Inspection Team Leader responsible for the underwater inspection of piles supporting a 0.75km pierhead and 2.0 km approach trestle over water. Supervised the divers carrying out Level I, II and III inspection of steel h-piles and pipe piles. Ultrasonic thickness measurements of the remaining steel thicknesses were carried out. These readings were used in the STAAD modeling and remaining structural design life calculations.

East 107th Street Pier Inspection
New York City, NY
Inspection Team Leader responsible for underwater inspection and above water inspection of timber pile supported pier in the East River for the NYC Department of Parks and Recreation. The inspection included level I inspection of 100% of the timber piles with concrete encasements as well as concrete deck elements.

Staten Island Ferry Fendering System Design, NYCDOT
New York City, NY
Engineer responsible for performing graphical berthing analyses of each vessel type to help determine effective berthing impact energy. Drafted design vessels used in fendering system analysis. Managed the electronic storage site for the sharing of technical data between the various consultants working on this project.

Petrochemical Industries Company
Kuwait
Inspection Team Leader responsible for the underwater inspection of piles supporting a 1.5 Km conveyor system over water. Supervised divers carrying out Level I, II and II inspection of concrete filled steel pipe piles. Ultrasonic thickness measurements of the remaining steel thickness were carried out and an evaluation of the cathodic protection system with electric potential readings were made.

Marine Transfer Station, Department of Sanitation
New York City, NY
Engineer involved with construction support services for remedying construction issues. In this instance, support piles were driven out of position and not plumb, and solutions were designed accordingly. Responsible for site layout after various construction difficulties. Aided in final design of pile layout used in remediation.

Bush Terminal Rehabilitation, NYCEDC
Brooklyn, New York City, NY
Engineer responsible for calculating stone quantities used in riprap placement on site. Verified total volume of various stone types necessary to complete construction. Calculations gauged the accuracy of on-site stone usage and confirmed riprap placement procedures.

HOVENSA Boat Ramp Design
St. Croix, USVI
Engineer responsible for the preliminary design of a new boat ramp for launching small vessels. Design included pile layout and slab design. Prepared permitting sketches and developed cost estimates with quantity take offs.

Port of Galveston Cruise Terminal Expansion
City of Galveston, TX
Engineer involved with the design of a pier and terminal expansion at the Port of Galveston. Responsible for the layout and sizing of concrete planks to accommodate the expansion and aided in the drafting of the project documents. Verified independent berthing analyses to ensure adequate boat clearance and docking safety.

RSA Runway Expansion, Logan Airport
City of Boston, MA
Engineer responsible for the layout of the trench drainage system. Using CAD, determined invert elevations and pitching for successful draining of the expanded runway pier.

Bridge Inspection
Various Locations, RI
Intern and Assistant Field Inspector responsible for detailed inspection of various state owned bridges. Load ratings were subsequently calculated to evaluate and inventory the capacities of each bridge. Responsible for the maintenance and updating of bridge capacity records.

RAYMOND WALKER, PHD, PWS

Senior Principal/Division Director/Ecological

EDUCATION

- Ph.D. Ecology (Wetland Ecology), Rutgers University, 1981
- B.S. Environmental Biology, Manhattan College, 1974

PROFESSIONAL REGISTRATIONS

- Professional Wetland Scientist
- Provisionally Certified Wetland Delineator – U.S. Army Corps of Engineers

PROFESSIONAL AFFILIATIONS

- Society of Wetland Scientists

HONORS SOCIETY/AWARDS

- Sigma Xi
- Department of the Army Official Commendation, Customer Care Award, 1986
- Department of the Army Official Commendation, Special Act Award, 1987
- Department of the Army Official Commendation, Special Act Award, 1987

PUBLIC SERVICE

- Member of the U.S. National Park Service Task Force – Plan for the Pineland National Preserve 1978-1979
- Member of Freehold Township Open Space Committee –
- 1997-2000
- Member of Freehold Township Board of Adjustment– 1998-2007
- College of Mt. St. Vincent Science Advisory Committee 2009-Present

EXPERIENCE

Dr. Walker has been a proven leader and effective project manager in the field of ecological services since 1980. Dr. Walker brings a creative approach to securing regulatory approvals for a broad range of private, municipal, and public development projects that involve complex and challenging ecological issues. Having worked in academia, for regulatory agencies, and as a private consultant, Dr. Walker has developed a unique understanding and perspective on what it takes to secure regulatory approvals.

Dr. Walker's scientific background coupled with his regulatory experience, open mindedness, and temperate manner has made him very effective at mediating resolutions to wetland enforcement actions. Dr. Walker has been certified as an expert in the field of ecological sciences and regulatory issues in a variety of legal venues including Federal District Court, Local Courts, Office of Administrative Law, and numerous Planning and Zoning Boards.

The staff that Dr. Walker supervises is composed of degreed experts in a variety of fields associated with ecological services. These include expertise in due diligence investigations, wetland delineations, threatened and endangered species studies, preparation of Environmental Impact Statements, preparation of NEPA and SEQRA compliance documents, development and implementation of wetland mitigation projects, submerged aquatic vegetation studies, flora and fauna inventories, rare plant studies, lake restoration and management, essential fish habitat studies, nitrate dilution modeling, carbon foot printing, greenhouse gas analyses, environmental resource inventories, resource management, and regulatory issues.

PROJECTS

Bulkhead Construction
Borough of Sea Bright, County of Monmouth, NJ
Provided environmental regulatory permitting services (NJDEP waterfront development and Army Corps Nationwide General) associated with the civil and structural engineering services for the construction of bulkhead between the south side of Southway and the north sideline of Via Ripa.

Twin Lights Marina
Highlands Borough, County of Monmouth, NJ
Provided environmental regulatory permitting services (NJDEP waterfront development, CAFRA, tidelands conveyance, and US Army Corps -Section 10) associated with the site design and civil engineering services for a proposed 24-boat slip marina with a public fueling dock and a bait shack.

Meridia Water's Edge at Rahway
City of Rahway, Union County, NJ
Provided wetland delineation and permitting for Meridia Water's Edge at Rahway, a 109-unit apartment building located on a one acre lot within the waterfront area of the City of Rahway and within New Jersey's coastal zone. Scope of work included delineating wetlands for the project site; preparing applications for Freshwater Wetlands, Waterfront Development, and Flood Hazard Area Control Act permits for the project (which were successfully secured) from the NJDEP; and conducting site investigations to demonstrate compliance with State and Federal Historic Preservation Regulations.

Riverview at Wallington
Borough of Wallington, Bergen County, NJ
This project consisted of an age-restricted residential development with 39 one-bedroom units and five townhouse buildings with 35 two-bedroom units in the Borough of Wallington. The site is located within 500 ft of the mean high water line of the Passaic River and within New Jersey's Coastal Zone. Scope of work involved successfully preparing and securing Freshwater Wetland, Waterfront Development, and Flood Hazard Area Control Act approvals from the NJDEP, as well as a Tidelands Conveyance from the State Bureau of Tidelands and a Section 404/10 permit from the U.S. Army Corps of Engineers.

Browns Point Marina
Borough of Keyport, Monmouth County, NJ
Browns Point Marina is an existing marina in need of rehabilitation. The marina is located within New Jersey's Coastal Zone and is subject to the regulatory authority of the Coastal Area Facility Review Act Rules (CAFRA), Waterfront Development Rules, Tidelands Rules, and Section 404 of the Clean Water Act and Section 10 of the Rivers and Harbors Act of 1899. Scope of work included designing a rehabilitation plan for the marina and securing the necessary Federal and State approvals for these improvements. Survey and development plans were prepared for the reconstruction and replacement of 488 LF of the existing timber bulkhead with vinyl bulkhead, the construction of a new floating dock, the installation of nine new slips, reconstruction of a boat ramp, and the dredging of 2,156 cubic yards of sediment from Matawan Creek. Also delineated wetlands on the property and secured a Waterfront Development Permit from the NJDEP, a Tidelands Conveyance from the State Bureau of Tidelands, and a Section 404/10 permit from the U.S. Army Corps of Engineers for these improvements.

Vinyl Bulkhead Installation
Middletown Township, Monmouth County, NJ
A residential home located along the Navesink River shoreline in Middletown was constructed over a geologic formation known as a slump block. The very steep shoreline was "sliding" as a result of the slump block formation threatening the residential home. The property was also located within the State's coastal zone. Scope of work included designing a vinyl bulkhead for installation along the shoreline to stabilize the slump block. As the professional in charge of environmental permitting, Dr. Walker oversaw efforts associated with securing a Waterfront Development and CAFRA permit from the NJDEP, a Tidelands conveyance from the State Bureau of Tidelands, and a Section 404/Section 10 permit from the U.S. Army Corps of Engineers for the installation of the bulkhead.

Seabright Avenue Shoreline Stabilization
Berkeley Township, Ocean County, NJ
The shoreline near Seabright Avenue in Berkeley Township, Ocean County, is subjected to high energy wave action during north eastern storms which severely erode the shoreline. Scope of work involved designing a shoreline stabilization plan consisting of cabled concrete matting with plantings and a groin to stabilize the shoreline at this location. Prepared applications and secured approvals from the New Jersey Department of Environmental Protection (NJDEP) and the U.S. Army Corps of Engineers (USACE) for the installation of shoreline stabilization measures at this location.

ANDREW A. PREVITI, PE

Senior Principal/Waterfront Specialist

EDUCATION

- B.S. Biology, St. Joseph's University
- B.S. Civil Engineering, Drexel University

PROFESSIONAL REGISTRATIONS

- Professional Engineer (PE) New Jersey

PROFESSIONAL AFFILIATIONS

- New Jersey Association of Environmental Consultants
- American Society of Civil Engineers
- New Jersey Society of Municipal Engineers
- Technical Advisory Committee of the South Jersey Transportation Planning Organization

CURRENT APPOINTMENTS

- Sea Isle City, Engineer, Planning Board Engineer, Zoning Board Engineer, Board of Assessment Engineer
- City of Absecon, Planning Board Engineer
- Dennis Township, Consolidated Land Use Board Engineer

EXPERIENCE

Mr. Previti has been providing municipal and civil engineering services for over 40 years in 13 municipalities. His longevity in many of the municipalities that he represents is a testament to his dedication to understanding the client's needs. His municipal engineering experience includes utility construction and reconstruction; roadway construction; drainage design; beach replenishment; erosion control protective structures; oceanfront bulkheads; revetments; jetties; low-profile timber; stone groins; floating dock systems; and fixed piers. Mr. Previti is also skilled in streetscape/park improvements; and project permitting. He is accountable for the management of municipal projects from concept design through construction administration and the review of project development plans and applications for the Planning and Zoning Boards that he represents. His extensive experience with the application, coordination, and submission of permits expedites the projects through various agency approvals.

PROJECTS

Sea Isle City, Cape May County, NJ

Mr. Previti has been serving the City of Sea Isle City since 1973. His projects there include the following:

- **Hurricane Sandy Reconstruction**
  Citywide reconstruction included asphalt beachfront promenade reconstruction; beach replenishment projects; sand dune, fence, and dune grass installation; retaining wall reconstruction; streetscape repairs; ADA access ramp reconstruction; bulkhead repair; and hydraulic lagoon and inlet dredging. Worked with City toward the successful attainment of FEMA CRS rating designation.
- **Beach Replenishment & Erosion Protective Structures**
  Services included planning, design, securing of all permits from the NJDEP and ACOE; and construction administration for $20 million of beach replenishment and $5 million of erosion control protective structure projects constructed in Sea Isle City under a partnership with the NJDEP. Structures designed included oceanfront bulkheads and revetments, jetties, and low profile timber and stone groins. Beach replenishment projects involved the placement of sand pumped from coastal inlet areas onto the City beaches primarily by hydraulic placement methods.
- **JFK Veterans Blvd. Streetscape Improvements**
  Provided the design for all streetscape amenities for this County roadway reconstruction project, including decorative lighting to match decorative traffic signals; benches; landscaping; paver sidewalks; and ADA compliant crosswalks and ramps.

- **Street-End Bulkheads**
  Provided design, permitting, and construction administration services for the reconstruction of over 2,400 LF of street-end bulkheads.
- **Bulkhead and Boardwalk**
  Preparation of engineering conceptual planning, design development, and construction documents for the construction of 1,000 LF of new boardwalk along the Sea Isle City bay front and for the construction and reconstruction of over 600 LF of waterfront bulkheads. This project also includes a floating dock system, fixed piers, and gangways from the fixed piers to the floating docks. All materials specified are non-polluting and conform to all environmental regulations. Permits for this project were secured from the NJDEP and ACOE.
- **Sea Isle City Marina**
  Preparation of engineering conceptual planning, design development, and construction documents for the establishment and expansion of a public-private venture amusement park; streetscape/park improvements; roadway realignment and reconstruction; creation of new parking areas for multiple users; reconstruction of a boat trailer parking area; street and boardwalk decorative lighting; landscape improvements; and the construction of a Marina Service Building which includes office, repair and storage areas, and public restrooms facilities including shower rooms.
- **Hydraulic Dredging of the City's Lagoon System**
  Provided planning, design, construction administration, and securing of all necessary permits from NJDEP and ACOE for the oversight of multiple projects. This lagoon system requires dredging once every 10 years on average and the permit process is complex and requires special expertise.
- **Annual Roadway Reconstruction Program – Ongoing**
  Preparation of engineering conceptual planning, design, and development of plans and specifications; contract administration; and inspection of roadway reconstruction program involving 110 streets throughout the City.
- **Townsends Inlet Waterfront Park**
  Preparation of engineering conceptual planning; Green Acres Application; design development of plans and specifications; and contract administration and inspection of a waterfront park facility that converted a deteriorated site into a major park facility within the community that includes an observation deck and covered pavilion; established sand dune system including primary and secondary dunes with native vegetation; educational walkways and signage through the dune system, vehicular and bicycle parking areas, comfort station with storage area; and access roadway with control signage.
- **Water Supply Facility Replacement Projects**
- Preparation of engineering conceptual planning; design development of plans and specifications; permitting; and contract administration and inspection of projects involving the complete replacement and new pumping, treatment, and control facilities of the old 40th Street Water Supply Facility with new Well No. 7; the old 55th Street Water Supply Facility, with new Well No. 8; and the old 50th Street Water Supply Facility, with new Well No. 9. Well No. 9 included preliminary funding application to USDA.
- **Landis Avenue Utility Reconstruction**
  Preparation of engineering conceptual planning, design, development of plans and specifications, and contract administration and inspection for the reconstruction and expansion of sanitary sewer and water distribution system facilities along a 32-block section of Landis Avenue in anticipation of a roadway reconstruction project by Cape May County.
- **Utility Capital Improvement Projects**
  Preparation of design engineering plans; development of plans and specifications; permitting; and contract administration and inspection of projects for the improvement utilities on 100 streets throughout the City. Also included a sewerage pump station to service the entire northern section of the City and associated trunk sewer construction from 36th Street to 49th Street, 3,840 LF on a pile supported foundation.

Ocean City, Cape May County, NJ
Mr. Previti has been serving Ocean City since 2008 and is currently appointed as the Planning Board Engineer. His projects there include the following:

- **Master Drainage Plan**
  Prepared and developed recommendations for a long-range drainage improvements. Long-range program which includes preparation of plans and specifications, and construction administration for recommended projects as funds become available. Responsibilities include investigation for sources of funding and grant programs.
- **Site Improvements for New Ocean City High School**
  Preparation of engineering planning, design, plans and specifications for a new site improvements at the new Ocean City High School. Worked along with project architect to develop the overall plan.
- **Construction of Boardwalk**
  Analysis of existing timber pile supported boardwalk and the preparation of plans and specifications to replace the timber pile supported boardwalk.

OTHER EXPERIENCE

Township of Dennis, Cape May County, NJ

- **Chestnut Street Park**
  Principal Engineer for two-phase project that included vehicular and pedestrian access improvements to control access at this active recreation facility, including the provision of ADA access and facility improvements.
- **Municipal Recreation Park**
  Principal Engineer for the design and preparation of plans and specifications for multiple improvements for the Township's main recreation complex including a jogging/walking path, new tennis court, new in-line hockey rink, maintenance service building and parking improvements.
- **Roadway Reconstruction Program**
  Principal Engineer for multiple roadway reconstruction projects which involve conceptual planning, design, development of plans and specifications, contract administration and inspection of roadway reconstruction program involving 50 roadways throughout the Township.

City of Atlantic City, Atlantic County, NJ

- **Construction of Bulkhead at Absecon Inlet & New Hampshire Avenue**
  Preparation of engineering conceptual planning, permitting, design, plans and specifications, contract documents involving the construction of a steel sheet bulkhead system at Absecon Inlet drainage.

PAUL NOLAN, PE, CPWM

Principal /Department Manager/Construction

EDUCATION

- M.S. (Coursework) Engineering & Project Management, New Jersey Institute of Technology
- B.S. Civil Engineering, New Jersey Institute of Technology, 1990
- A.S. Drafting & Design, Brookdale Community College, 1986

PROFESSIONAL REGISTRATIONS

- Professional Engineer (PE) New Jersey
- Certified Public Works Manager (CPWM)

PROFESSIONAL CERTIFICATIONS

- New Jersey Traffic Control Coordinator
- New Jersey Society of Asphalt Technologist

EXPERIENCE

Mr. Nolan serves as Department Manager of Construction Administration & Inspection. His in-depth knowledge includes a wide range of technical pursuits, from planning and design through construction completion and occupancy. Some projects include heavy highway design and construction, bridgework, parks and recreation, waterfront/marine, building/structure rehabilitation, hydraulic water/wastewater systems, design/construction management, and consultation with private as well as public organizations. He also has supervised the evaluation, planning, design, and construction management for numerous public works projects. Mr. Nolan's duties as Department Manager include supervising inspection staff and construction managers, and contracting administration staff for the satellite offices of the firm. Mr. Nolan also provides Constructability and QAQC services on many of the firm's more complex projects.

PROJECTS

Stabilization of the West Branch of Shabakunk Creek, Township of Ewing, Mercer County, NJ

Project Manager for the Township of Ewing to provide construction management services for the preliminary/final design/construction specifications and the construction inspection for the distilling and stabilization of the West Branch of the Shabakunk Creek. This work included the preparation of a hydraulic model which enabled prioritizing of the areas experiencing the most severe erosion. Once identified, the most appropriate method of stabilization was for approximately 12,000 LF of stream banks. This work included interlocking concrete block as the most prominent stabilization measure, but vegetative measures such as "biologs" were utilized where velocities and flow conditions were appropriate. Three water quality control basins were also constructed to provide storage and reduce the velocities experienced during 1, 2 and 10 year storm events which have had significant impact for property owners along the West Branch.

Liberty State Park
City of Jersey City, Hudson County, NJ

Construction Manager for shoreline stabilization project along the south side of Liberty State Park. Scope included investigation of failing relieving platform, historic fill testing, and waterfront permitting challenges due to platform and replacement option of utilizing a stone revetment shoreline, as well as wave analysis for shoreline design. Improvements also included new waterfront walkway, rails, lights, and landscaping in conformance with Hudson Waterfront Walkway Standards. Project was coordinated with NJDEP Coastal Engineering and NJDPMC.

Bulkhead Replacement
Leonardo State Marina
Leonardo, Monmouth County, New Jersey

ID	Task Name	Duration	Start	Finish
1	**Phase I - Contract Awarded**	3 days	Mon 8/15/16	Wed 8/17/16
2	DPMC Awards Contract	0 days	Mon 8/15/16	Mon 8/15/16
3	Pre-Design Meeting (Kickoff Meeting)	1 day	Tue 8/16/16	Tue 8/16/16
4				
5	**Phase II - Preliminary Design Phase**	35 days	Thu 8/18/16	Wed 10/5/16
6	Preliminary Investigations	20 days	Thu 8/18/16	Wed 9/14/16
7	Site Visit/Field Inspection	5 days	Thu 8/18/16	Wed 8/24/16
8	Survey (Land/Hydrographic)	20 days	Thu 8/18/16	Wed 9/14/16
9	Geotechnical Investigations	15 days	Thu 8/25/16	Wed 9/14/16
10	Preliminary Construction Documents	15 days	Thu 9/15/16	Wed 10/5/16
11	Preliminary Construction Plans	3 wks	Thu 9/15/16	Wed 10/5/16
12	Preliminary Technical Specifications	3 wks	Thu 9/15/16	Wed 10/5/16
13	Preliminary Construction Cost Estimate	2 wks	Thu 9/22/16	Wed 10/5/16
14				
15	**Phase II - Document Review**	5 days	Wed 10/5/16	Wed 10/12/16
16	Submit Package to DPMC/BCE	0 days	Wed 10/5/16	Wed 10/5/16
17	DPMC/BCE Document Review	1 wk	Thu 10/6/16	Wed 10/12/16
18				
19	**Phase III - Design Development Phase (90%)**	10 days	Thu 10/13/16	Wed 10/26/16
20	Design Development Construction Documents	10 days	Thu 10/13/16	Wed 10/26/16
21	Design Development Plan (Address DPMC/BCE Comments)	2 wks	Thu 10/13/16	Wed 10/26/16
22	Prepare Design Development Specifications	1 wk	Thu 10/13/16	Wed 10/19/16
23	Prepare Design Development Cost Estimate	1 wk	Thu 10/13/16	Wed 10/19/16
24				
25	**Phase III - Document Review**	5 days	Wed 10/26/16	Wed 11/2/16
26	Submit Package to DPMC/BCE	0 days	Wed 10/26/16	Wed 10/26/16
27	DPMC/BCE Document Review	5 days	Thu 10/27/16	Wed 11/2/16
28	BCE Submit NJDEP/ACOE Permit	64 days	Thu 11/3/16	Tue 1/31/17
29				
30	**Phase IV - Final Design Phase**	10 days	Thu 11/3/16	Wed 11/16/16
31	Final Design Plan (Address DPMC/BCE Comments)	2 wks	Thu 11/3/16	Wed 11/16/16
32	Prepare Final Specifications	2 wks	Thu 11/3/16	Wed 11/16/16
33	Prepare Final Cost Estimate	1 wk	Thu 11/10/16	Wed 11/16/16
34	Submit Final Design Package	0 days	Wed 11/16/16	Wed 11/16/16
35				
36	**Phase V - Bid Phase**	25 days	Wed 2/1/17	Tue 3/7/17
37	Bid Documents	7 days	Wed 2/1/17	Thu 2/9/17
38	Prepare Bid Documents	6 days	Wed 2/1/17	Wed 2/8/17
39	Deliver Bid Documents to DPMC	1 day	Thu 2/9/17	Thu 2/9/17
40	Public Bid	18 days	Fri 2/10/17	Tue 3/7/17
41	Bidding Period	3 wks	Fri 2/10/17	Thu 3/2/17
42	Pre-Bid Conference/Site Walk	1 day	Fri 3/3/17	Fri 3/3/17
43	Bid Opening	1 day	Mon 3/6/17	Mon 3/6/17
44	Bid Review/Recommendation	1 day	Tue 3/7/17	Tue 3/7/17
45				
46	**Phase VI - Award Phase**	20 days	Wed 3/8/17	Tue 4/4/17
47	Bid Award Contract Period	15 days	Wed 3/8/17	Fri 3/31/17
48	Preconstruction Meeting	1 day	Mon 4/3/17	Mon 4/3/17
49	Submission Checklist	1 day	Tue 4/4/17	Tue 4/4/17
50				
51	**Phase VII - Construction Phase**	106 days	Wed 4/5/17	Wed 8/30/17
52	Review Submittal	10 days	Wed 4/5/17	Tue 4/18/17
53	Construction Period	90 days	Wed 4/5/17	Tue 8/8/17
54	Project Close Out	15 days	Wed 8/9/17	Tue 8/29/17
55	Develop Punch List	2 days	Wed 8/9/17	Thu 8/10/17
56	Final Inspection	3 days	Fri 8/11/17	Tue 8/15/17
57	Project Close-Out	10 days	Wed 8/16/17	Tue 8/29/17
58	Project Complete	1 day	Wed 8/30/17	Wed 8/30/17

Project: Leonardo State Marina Bulkhead Replacement
Project #1135-00

Task | Split | Milestone | Summary | Project Summary | External Tasks | External Milestone | Inactive Task | Inactive Task | Inactive Milestone | Inactive Summary | Manual Task | Duration-only | Manual Summary Rollup | Manual Summary | Start-only | Finish-only | Progress | Deadline

Notes: Days = Working Days Only (Weekends & Holidays Excluded)

Final/Accepted
For Proposal

RECEIVED

PROFESSIONAL SERVICES FEE PROPOSAL
DIVISION OF PROPERTY MANAGEMENT & CONSTRUCTION

THIS FEE PROPOSAL TO BE RETURNED IN A SEPARATELY SEALED ENVELOPE TO:

2016 JUL 22 A 9:00

DATE: July 7, 2016 Rev 7/22/16
PROJECT NO.: P1135-00

Division of Property Management & Construction
33 WEST STATE ST 9TH FLOOR, PLAN ROOM
P.O. Box 034
Trenton, NJ 08625-0034
Attention: BILL MAHAN

PROCUREMENT

THIS PROPOSAL DUE DATE, NO LATER THAN 2:00 PM, THURSDAY, JULY 7, 2016

FIRM NAME **MASER CONSULTING, PA**

THE UNDERSIGNED PROPOSES TO PROVIDE ALL PROFESSIONAL SERVICES AS STATED IN THE REQUEST FOR PROPOSAL AND SCOPE OF WORK

PRE-DESIGN MEETING	$ $5,060.00
PRELIMINARY DESIGN PHASE SUBMISSION	$ $48,580.00
90% DESIGN DEVELOPMENT PHASE SUBMISSION	$ $25,460.00
FINAL DESIGN PHASE SUBMISSION	$ $10,800.00
TOTAL LUMP SUM FEE FOR PROFESSIONAL SERVICES	$ $89,900.00
PERMIT FEE ALLOWANCE *	$ $2,100.00
MISCELLANEOUS CONSTRUCTION SERVICES ALLOWANCE	$ $10,000.00
ALLOWANCE FOR WORK SPECIFIED BY CONSULTANT	$ $0.00
TOTAL CONTRACT AMOUNT	$ $102,000.00

PROPOSAL TO HOLD GOOD FOR 60 DAYS AFTER THE DUE DATE.

Signature and Title of Principle or Individual of the firm authorized to sign contractual documents:
Signature of the consultant below attests that the Consultant has read, understands and agrees to all terms, conditions and specifications set forth in the Request for Proposal (RFP) and Consultant Proposal Package.

Signature: _____ **Print Name:** _____ **Richard Maloney, P.E.**

Title: **Principal Associate** **Date:** _____ **July 7, 2016, Revised July 22, 2016**

Witness Signature: _____ **Print Name:** Janis Lee Doran

ATTACH PROOF OF REQUIRED INSURANCE COVERAGE
See attached requirements per "General Conditions to Consultant Agreement" Section 27, pp. 18-19
PROFESSIONAL LIABILITY INSURANCE
($100,000 MIN LIMIT/$25,000 MAX DEDUCTIBLE)

* INCLUDES A FEE FOR A SOIL EROSION AND SEDIMENT CONTROL PERMIT AND ACOE PERMIT. NJDEP AND NJUCC PERMITS FEES ARE WAIVED.

CONSULTANT TASK/LABOR/FEE SHEET

A/E:

Project #: P1135-00 REVISION #1

Project Name: Bulkhead Replacement

Project Location: Leonardo State Marina - Leonardo, Monmouth County, NJ

PROJECT PHASE OR TASK	CONSULTANTS LEVEL OF EFFORT IN HOURS/FEE								REPROD. COST PER PHASE INCLUD. SUB CONSULTANT DOCUMENTS	TOTALS PER TASK HOURS / $ AMOUNT
	LEVEL	7	6	5	4	3	2	1		
	*HOURLY RATE	$190.00	$170.00	$155.00	$130.00	$120.00	$100.00	$85.00		
PRE-DESIGN MEETING	HOURS	8	0	20	0	0	0	4		32
	AMOUNT	$1,520.00	$0.00	$3,100.00	$0.00	$0.00	$0.00	$340.00	$ 100.00	$ 5,060.00
PRELIMINARY DESIGN PHASE SUBMISSION	HOURS	52	16	80	40	72	72	24		356
	AMOUNT	$9,880.00	$2,720.00	$12,400.00	$5,200.00	$8,640.00	$7,200.00	$2,040.00	$ 500.00	$ 48,580.00
90% DESIGN DEVELOPMENT PHASE SUBMISSION	HOURS	32	16	56	36	12	0	16		168
	AMOUNT	$6,080.00	$2,720.00	$8,680.00	$4,680.00	$1,440.00	$0.00	$1,360.00	$ 600.00	$ 25,560.00
FINAL DESIGN PHASE SUBMISSION	HOURS	16	8	16	12	0	0	16		68
	AMOUNT	$3,040.00	$1,360.00	$2,480.00	$1,560.00	$0.00	$0.00	$1,360.00	$ 1,000.00	$ 10,800.00
TOTAL	HOURS	108	40	172	88	84	72	60		624
	AMOUNT	$20,520.00	$6,800.00	$26,660.00	$11,440.00	$10,080.00	$7,200.00	$5,100.00	$2,100.00	$89,900.00
								PROFESSIONAL SERVICES GRAND TOTALS	HOURS	624
									AMOUNT	$89,900.00

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2010 JUL 22 A 9:00
BUREAU OF SURVY DPMC
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Fee Proposal

SUB-CONSULTANT TASK/LABOR/FEE SHEET

A/E:

Project #: P1135-00 REVISION #1

Project Name: Bulkhead Replacement

Project Location: Leonardo State Marina - Leonardo, Monmouth County, NJ

PROJECT PHASE OR TASK	SUB CONSULTANTS LEVEL OF EFFORT IN HOURS/FEE					TOTALS PER TASK
	FIRM NAME ⇨	NONE				
PRE-DESIGN MEETING	HOURS					
	AMOUNT	$	$	$	$	$
PRELIMINARY DESIGN PHASE SUBMISSION	HOURS					
	AMOUNT	$	$	$	$	$
90% DESIGN DEVELOPMENT PHASE SUBMISSION	HOURS					
	AMOUNT	$	$	$	$	$
FINAL DESIGN PHASE SUBMISSION	HOURS					
	AMOUNT	$	$	$	$	$
TOTALS	HOURS					
	AMOUNT	$	$	$	$	$
					TOTAL	$0.00

* PROVIDE FIRM NAME(S) AT TOP OF COLUMN(S). MAKE COPY OF THIS SHEET IF MORE SPACE IS NEEDED.

PLEASE ATTACH PROOF OF SUBCONSULTANT PREQUALIFICATION (48A) WITH DPMC

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2016 JUL 22 A 9:00
TREASURY DPMC
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Fee Proposal

Certification 5579

CERTIFICATE OF EMPLOYEE INFORMATION REPORT

RENEWAL

This is to certify that the contractor listed below has submitted an Employee Information Report pursuant to N.J.A.C. 17:27-1.1 et. seq. and the State Treasurer has approved said report. This approval will remain in effect for the period of 15-JUL-2016 to 15-JUL-2019

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

FORD M. SCUDDER
Acting 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 take affirmative action to ensure that such applicants are recruited and employed, 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 action 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, where applicable, will send to each labor union or representative or workers with which it has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the agency contracting officer advising the labor union or workers' representative of the contractor's commitments under this act 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 employ minority and women workers consistent with the applicable county employment goals established in accordance with N.J.A.C. 17:27-5.2, or a binding determination of the applicable county employment goals determined by the Division, pursuant to 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, labor unions, that it does not discriminate on the basis of age, 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 applicable 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, 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

The contractor and its subcontractors shall furnish such reports or other documents to the Div. of Contract Compliance & EEO 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 Div. of Contract Compliance & EEO for conducting a compliance investigation pursuant to **Subchapter 10 of the Administrative Code at N.J.A.C. 17:27**.

Richard M Maser, PE, PP, Chairman/CEO

Source Disclosure Certification
Formerly: Executive Order 129

SOURCE DISCLOSURE CERTIFICATION FORM

Bidder: Maser Consulting P.A.

I hereby certify and say:

I have personal knowledge of the facts set forth herein and am authorized to make this Certification on behalf of the Bidder.

The Bidder submits this Certification as part of a bid proposal in response to the referenced solicitation issued by the State of New Jersey, Department of Treasury, Division of Property Management and Construction (DPMC), in accordance with the requirements of Source Disclosure Certification, (N.J.S.A. 52:34-13.2 et seq., superseding Executive Order 129 (2004)).

The following is a list of every location where services will be performed by the bidder and all subcontractors.

Bidder or Subcontractor	Description of Services	Performance Location(s) by Country
Maser Consulting P.A.	Marine Engineering, Hydrographic Surveying, and Estimating/Cost Analysis	Red Bank, NJ

Any changes to the information set forth in this Certification during the term of any contract awarded under the referenced Project Number will be immediately reported by the Bidder to the Contract Compliance Unit in the DPMC, Department of Treasury, State of New Jersey, PO Box 034, Trenton, NJ 08625.

I understand that, after award of a contract to the Bidder, it is determined that the Bidder has shifted services declared above to be provided within the United States to sources outside the United States, prior to a written determination by the Director, Division of Property Management and Construction, that extraordinary circumstances require the shift of services or that the failure to shift the services would result in economic hardship to the State of New Jersey, the Bidder shall be deemed in breach of contract, which contract will be subject to termination for cause under its contract with DPMC.

I further understand that this Certification is submitted on behalf of the Bidder in order to induce DPMC to accept a bid proposal, with knowledge that the State of New Jersey and DPMC are relying upon the truth of the statements contained herein.

I certify that, to the best of my knowledge and belief, the foregoing statements by me are true. I am aware that if any of the statements are willfully false, I am subject to punishment.

Bidder: Maser Consulting P.A.
[Name of Organization or Entity]

By: _____ Title: Chairman & CEO

Print Name: Richard M. Maser, PE, PP Date: July 5, 2016

Revised July 2015