KEITH and SCHNARS, P.A.
FLORIDA'S Big LOCAL FIRM

CITY OF KEY WEST

RFQ #11-004 - Professional Landscape Architectural/Engineering /Architectural/Land Surveyor Services for Truman Waterfront Upland Design and Construction Administration - June 29, 2011

In Association With:

ATM APPLIED TECHNOLOGY & MANAGEMENT

GEA ENVIRONMENTAL · GEOTECHNICAL · MATERIALS TESTING · INSPECTION INTERNATIONAL

ZYSCOVICH ARCHITECTS

Weiler Engineering Corporation

STARR WHITEHOUSE Landscape Architects and Planners PLLC

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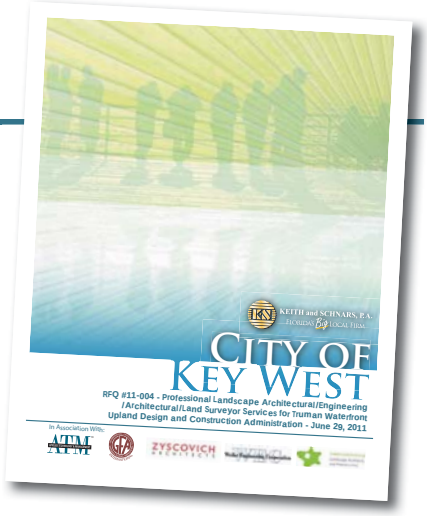

June 28, 2011

City Clerk
City of Key West
525 Angela Street
Key West, FL 33040

RE: City of Key West Naval Properties Local Redevelopment Authority
Request for Qualifications No. 11-004
Professional Landscape Architectural/ Engineering/Architectural/ Land Surveyor Services for Truman Waterfront Upland Design and Construction Administration

Greetings:

Keith and Schnars, P.A. (K&S) is pleased to respond to the City of Key West (City) request for qualifications (RFQ) for the Truman Waterfront Upland Design and Construction Administration (TWUDCA). The effective and efficient use of public spaces such as the Truman Waterfront can play a vital role in the vitality of a community. At K&S we understand fully the nexus between clean, safe and fun urban open spaces and the economic and environmental health of a city such as Key West.

Documents show the City of Key West Naval Properties Local Redevelopment Agency (LRA) initiated steps to develop this important waterfront parcel in 1995. Our team understands how valuable this project is to the community, as demonstrated by LRA and City efforts in planning, acquisitions, studies and proposals. A park of this size can satisfy divergent needs and interests and assume multiple roles as a community resource, an economic stimulus, as a means to reinforce historic character, to enhance connectivity, and to increase waterfront access by the public. Our experts are ready to provide design solutions to accommodate each of these roles.

K&S has been involved in over 40 park projects, including active and passive recreation and cultural activity improvement projects. Our services range from park programming and master planning through construction observations and final certifications. K&S in-house divisions that routinely participate in park planning and design include:

- Landscape Architecture;
- Planning;
- Public Involvement;
- Civil Engineering;
- Structural Engineering;
- Surveying;
- Graphic Designers;
- Environmental Sciences and Permitting; and
- Construction Inspection.

K&S is one of the largest consulting firms in Florida and is known as Florida's BIG Local Firm. K&S was first incorporated in 1972, and has offices throughout Florida, with our corporate office located in Fort Lauderdale. K&S is a full service firm whose roots stretch back to 1929, with a history of providing services to over 58 cities, 22 towns, 17 counties and 12 State agencies, in addition to private, commercial, and community developers. K&S Team members have extensive experience in Monroe County and the City.

The K&S Team includes a who's who of firms with expertise in waterfront parks and environments. Specifically, we have teamed with:

- Zyscovich Architects;
- Starr Whitehouse Landscape Architects;
- GFA International, Inc.;
- Weiler Engineering; and
- Applied Technology and Management.

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Each Team member brings the specific expertise necessary to develop the best waterfront plan for the City and its residents. As shown in the enclosed project profile pages, our Team has significant relevant experience, which includes waterfront parks, sport fields, community centers, events pavilions, public plazas and walks, and military property redevelopment. Of particular importance is the Team's experience in developing strategies to expand waterfront parks; creating networks that tie into the tourist economy; creating standards for a system of plazas and open spaces; creating a mixed-use district and a transit line and stations within a park/plaza area.

The City will find that the K&S Team's expertise and depth of experience in South Florida with the design and permitting of coastal property will prove efficient and effective in TWUDCA implementation. We offer our clients comprehensive solutions to their regulatory problems, solutions that combine insight and innovation gained over the course of 40 successful years in business, as well as the experience of our staff, many of whom have served at high levels in both State and federal agencies.

At K&S, we also take great pride in our emphasis on effective project management and environmental sustainability. Effective project management is the key to meeting schedules and controlling costs, and we understand that our clients trust us to provide high quality services with integrity, including respect for time and cost controls. They also increasingly trust us to incorporate environmental sustainability - development that meets the needs of the present generation without compromising the ability of future generations to meet their needs – into our designs. Like us, they recognize the exciting opportunities it brings to a project. Thus, the City can be confident that we will successfully incorporate sustainable "green" elements and methodologies into the TWUDCA and work closely with the City to implement this important element in the project's design.

We look forward to meeting with City officials and staff to further demonstrate our qualifications toward stewarding and enhancing the Truman Waterfront site. Please do not hesitate to contact me at (954) 776-1616 or mdavis@keithandschnars.com should you have any questions.

Respectfully submitted,

Michael L. Davis
Vice President
Environmental/Government Affairs/Planning

Landscape Architecture Services

The Keith and Schnars Landscape Architecture Division is made up of a dynamic group of professionals who can provide a full range of high quality services from initial planning through to construction observation and final inspection. They have been providing consulting services to public sector clients for over 25 years. Thus, they are accustomed to managing multiple concurrent projects for public sector clients. Their recent portfolio includes City Halls, Public Works Facilities, municipal complexes, fire stations, parks (active and passive), streetscapes, community enhancements, traffic calming, beautification, roadway improvements, parking facilities analysis and design, ADA reviews and improvements, greenways, municipal buildings and facilities, ordinance review and writing, and signage.

In the past five years alone, we have provided over eight municipalities/agencies with services ranging from preliminary studies, to site planning, irrigation design, site amenities design, planting plans, tree preservation plans, development review approvals, and permitting. Additionally, we have also provided landscape architectural services for over 30 parks and recreation projects and over 100 streetscape, traffic calming, and roadway landscape projects, with services ranging from master planning, to design development, construction documents, permitting, bidding, public outreach, and inspections. Our designs for those projects have included hardscape, irrigation, site amenities, planting, and street and pedestrian lighting.

Civil Engineering Services

Keith and Schnars currently provides civil engineering services to a number of Counties, Municipalities, and Drainage Districts throughout the State of Florida. Our services include water analysis and master-planning of water distribution and sewer collection systems as well as design of over half a million linear feet of utilities improvements, large transmission mains, lift stations (design/re-habilitation) and related construction observation. We also offers hydrologic/hydraulic analyses for site specific flood (drainage) studies and more complex large watershed stormwater management programs. We use a variety of software, including HEC-HMS (HEC-1), HEC-RAS (HEC-s), AdiCPR, SWMM, HSPE, UNET and others in our analyses; which ultimately lead to design, permitting, and production of construction

documents. Additionally, we provide a variety of services to private sector clients including preparation of DRI's, master planning, site plans, water, sewer, and drainage design, due diligence studies, permitting, and construction observation for projects ranging from 2-acres to 5000-acres.

STRUCTURAL ENGINEERING SERVICES

Keith and Schnars provides a full range of services for structural projects including piers, docks, utility crossings and supports, boardwalks, marinas, and pedestrian bridges. In addition, Keith and Schnars has provided structural engineering services to the Florida Department of Transportation, County governments, municipal road departments, and numerous private developers. We routinely provide these governmental agencies with services on all types of bridge projects, from small access road bridges, to major bridges providing vital transportation links. We also provide plan phase reviews and constructability plan reviews; Project Development and Environmental (PD&E) Studies; bridge development reports; bridge and associated retaining wall design; bridge inspection and bridge rehabilitation; bridge construction engineering and inspection; and structural design of overhead signs, signal mastarms, lighting, and box culverts.

LAND DEVELOPMENT REVIEW AND PLANNING SERVICES

The Planning Division at Keith and Schnars has played a key role in assisting local governments in areas of land development review and planning services. We pride ourselves on being an extension of local government staff, providing our knowledge and expertise to the various needs of the local government. The Keith and Schnars Team has processed development approvals and permitted hundreds of site plans, plats, variances, easement and roadway abandonment, rezoning and land use plan amendments and have a thorough knowledge of the various development processes. Our team members have served as "Plan Reviewers" for local governments such as the City of Aventura and City of Miramar. Key planning personnel are adept at making presentations at public hearings and before commissions, boards, community groups, and elected officials.

In addition, Keith and Schnars has played a key role in the planning and design of new towns, cities, redevelopment areas, downtowns, and award-winning private developments. We offer a broad range of land development services in all of the following areas:

- Review and Analysis of Development Plans;
- Review and Processing of Plats;
- Geographic Information Systems (GIS);
- Grant Assistance;
- Processing of Plans and Permit Approvals;
- Comprehensive Plans;
- Evaluation and Appraisal Reports;
- Regional Plans;
- Capital Improvement Plans;
- Land Development Regulations (LDRs);
- Neighborhood Plans;

- Areawide Master Plans;
- Community Redevelopment Area (CRA) Plans;
- Strategic Plans for Economic Development and Housing;
- Developments of Regional Impact (DRI);
- Land Use and Site Planning;
- Land Use Plan Amendments and Rezonings;
- Land Development Feasibility Studies; and
- Public Presentations.

GIS Services

Keith and Schnars utilizes geospatial software to develop a variety of GIS applications for analysis purposes. Our GIS technicians operate computers and peripherals (digitizers, scanners, plotters) for map digitizing and editing, for conducting GIS analysis, for creating and maintaining GIS data and for producing map and other geo-reference products. In addition, our professionals operate mobile hardware (GPS, PDAs) and related geospatial software for data collection, data validation and data creation, and we create, manipulate and maintain geospatial data (shapefiles, rasters) as necessary including functional knowledge of the geospatial data (metadata).

We maintain multiple current GIS licenses. In the past year, as part of our 2030 update to the Monroe County Comprehensive Plan, we have prepared in GIS the existing and future land use map series, and have inventoried and analyzed in GIS all natural resources in the County, including but not limited to wetlands, uplands, protected species, and seagrasses. Prior to that, as part of our South Miami-Dade Watershed Study and Plan, we performed a GIS-based analysis on all natural resources from Tamiami Trail to the Keys.

As Florida's innovative technological leader, we are always on the cutting edge in implementing technology. In the 1980s we were the first state-wide firm to embrace total station/data collection systems, and in 1986 we became Florida's largest provider of Geodetic Surveying Services through Global Positioning Systems (GPS) technology. This commitment to excellence continues today, as we implement the latest Trimble GPS equipment and Leica data capture technologies. Our focus is the seamless integration of accurate information across all corporate disciplines and we are skilled and equipped in every relevant technology from Autocadd to Microstation to Geographic Information Systems (GIS).

Grant Funding Services

Keith and Schnars has experience preparing grant applications. For example, Keith and Schnars recently prepared a FFWCC Florida Boating Improvement Program Grant Application for Boating Access Facilities for a proposed public dock at the Keegan Clair Park in the City of Indian Rocks Beach. Located on the Intracoastal Waterway, the site contained a shoreline of mangroves, sea grapes, and oysters. Using a 400-ft long dock that paralleled the shoreline but extended into the Intracoastal Waterway, Keith and Schnars met the desired boat capacity, water depths, Intracoastal Waterway setback requirements, and avoided the mangroves, thus minimizing environmental impacts and streamlining the permitting process. As part of the grant application, Keith and Schnars provided a project description and justification, conceptual design, cost estimate for permitting and construction, and environmental assessment.

SURVEYING AND MAPPING SERVICES

Surveyors founded Keith and Schnars and for the last 39 years we have been the State's leading provider of Professional Surveying and Mapping services. Our professional resources include 5field crews, 5 licensed Surveyors and Mappers, survey technicians, and state-of-the-art hardware and software. We pride ourselves on the fact that we've been considered Florida's innovative, technological leader now for over 3 decades. In the 80's, we were the first statewide firm to embrace total station/data collection systems, and in 1986 we became Florida's largest provider of Geodetic Surveying Services (through Global Positioning Systems technology). This commitment to excellence continues today, as we implement the latest Trimble GPS equipment and Leica data capture technologies. Our focus is the seamless integration of accurate information across all corporate disciplines and we are skilled and equipped in every relevant technology, from Autocad, to Microstation, to ArcGIS.

The survey Division at Keith and Schnars offers a full range of surveying and mapping services, including: Boundary Surveys, Legal Descriptions, Topographic Surveys, Horizontal and Vertical Control, Profiles and Cross Sectioning, Right of Way Mapping, Monumentation of Right of Way Corridors, Bridge Data Surveys, Digital Terrain Models (D.T.M.), Hydrographic/Bathymetric Surveys, Specific Purpose Surveys, American Land Title Association Surveys, Wetland/ Mitigation Surveys, Environmental Surveys, Platting, Expert Witness Testimony, Construction Surveys, Record and As-built, Route, Electronic Field Book/GIS Mapping, all mainstream versions of CAD/GIS Differential Leveling, Global Positioning Systems (G.P.S.), Engineering Design Surveys, and other surveying and mapping-related services.

Our 5 full-time field crews have received the M.O.T. training currently required by the Florida Department of Transportation. They also have extensive experience in performing all types of surveys and are equipped with state of the art equipment, including EFB compatible Total Stations, G.P.S., digital levels and reflector-less instruments. As Florida's leading GPS surveying firm, our GPS equipment includes five (5) modern Trimble Dual-Frequency Receivers.

Environmental Services

Keith and Schnars has more than two decades of experience providing environmental services to its clients. These services focus on environmental and ecological assessments, threatened and endangered species studies, environmental impact analyses, contaminant remediation, wetland mitigation, and permitting. The Environmental Sciences Division employs a diverse group of scientists with specialties in biology, ecology, geology, hydrogeology, water resource planning, botany, zoology and environmental engineering. Division staff are playing a leading role in a number of high-profile Everglades restoration projects and this year they helped complete one of the largest, most complex, watershed plans ever undertaken in the United States: the South Miami-Dade Watershed Study and Plan (SMDWSP), a blueprint for making land use decisions within South Miami-Dade County for the next 50 years. The Florida Chapter of the American Planning Association honored this innovative project with a 2007 Award of Excellence.

Traffic Planning and Engineering Services

The Keith and Schnars transportation planning/traffic engineering team is one of the most experienced and stable traffic engineering teams in South Florida. The team boasts four licensed professional engineers, and several team members have working relationships that extend over 20 years. Additionally, they have a long history of providing traffic engineering consulting services to a number of Florida's most prominent public sector clients, many of whom have utilized our services for a number of years, including the City of Boca Raton (ongoing since 1995), the City of Fort Lauderdale (ongoing since 2002), and FDOT District 4 (ongoing since 2008).

We have applied our expertise to some of the state's most challenging technical assignments such as three dimensional microscopic simulations of complex interchanges in Florida. Our expertise and experience are rooted in the fundamentals of traffic engineering, and we provide a full range of services, including study reviews for municipalities, concurrency and growth management studies, site-specific traffic impact and parking studies, development of traffic calming concepts, land use plan amendments, signal warrant studies, amendments to thoroughfare preservation plans, interchange justification and modification reports, traffic safety studies, and transportation planning and traffic forecasting for airports, new towns, and large-scale Developments of Regional Impact (as large 22 square miles).

As roadway widening is no longer seen as the only solution to resolving congestion on Florida's roads, our traffic engineering team has also developed expertise in corridor studies, arterial investment studies, access management, travel demand management, system improvements, and mobility enhancements. Additionally, it includes seasoned PD&E professionals whose traffic engineering experience adds a valuable dimension to the team. The combination of skills and balancing of engineering and community goals have enabled the team to succeed with developing context sensitive designs for neighborhoods and university campus circulation systems.

All in-house modeling and forecasting assignments utilize the latest industry software and computer applications, including FSUTMS (Tranplan and Cube Voyager platforms), CORSIM and VISSIM for network simulations; and Synchro, CORSIM, and HCS for intersection and corridor system analysis, as well as the FDOT-developed LOS Plan software suite.

SUBCONSULTANT SERVICES

ZYSCOVICH ARCHITECTS (ZYSCOVICH)

ZYSCOVICH
ARCHITECTS

Zyscovich is a 90+ person firm with offices in Miami, West Palm Beach, Orlando, and New York. The firm has garnered a national reputation for its creative solutions to significant urban design and planning work in both the public and private sector. Over the past 33 years, the firm has produced varied scales of urban designs and master plans that successfully integrate design concepts with the needs of the immediate environment and the desires of the community, including the development of vision plans for transit-oriented development areas, blighted industrial sites, reevaluation of existing plans to accommodate market changes, citywide master plans, zoning regulations and projects that integrate public/private partnerships. The firm, with 21 LEED Accredited Professionals, has taken a leadership role in the incorporation of LEED® principles and environmentally responsive approaches into the master plans and facilities it designs.

They approach urban planning and design projects by identifying opportunities to create a sense of place. We have termed this design philosophy Real Urbanism^{SM}. Real Urbanism^{SM} is a concept that supports sustainable development by understanding how a city came to be and considers past and present development patterns, local needs for better communities, and economic obstacles and opportunities. Based on this philosophy our team creates authentic environments specific to each community, by providing design solutions for livable places with diverse population, cultural amenities, and economic vitality. This design philosophy is featured in two books: Getting Real About Urbanism: Contextual Design for Cities, written by Bernard Zyscovich and published by the Urban Land Institute and l'ARCAEDIZIONI's monograph, Zyscovich Architecture and Real Urbanism, with a preface by Frank O. Gehry.

Throughout their history, Zyscovich has created redevelopment plans that capitalize on the unique historic, economic, cultural, and natural attributes which give

places their unique characteristics. Their urban design and planning group has created twenty-one redevelopment plans in eleven different municipalities. Their focus is on merging the economic development opportunities, based on our economist's market assessment, with appropriate design solutions. Solutions should reflect the community stakeholders' needs and desires, and match the cultural aesthetic that is inherent in the community, with special attention to scale, character, and preservation. Reflected in their record of plan implementation, their plans are specific to each area and our solutions are based on thorough economic analysis, an evaluation of the defining characteristics, a deep understanding of transportation and infrastructure, and sensitivity to each community's needs.

The firm has extensive experience working with city officials, agencies and key stakeholders to develop a clear vision and implementable master plans. By collaborating with our clients, forming a true partnership, they are able to identify the most important issues and develop realistic and feasible solutions. As part of their master planning and visioning efforts they favor building consensus by presenting ideas which motivate the community to embrace a comprehensive vision. They have successfully conducted thousands of stakeholder meetings, community workshops and presentations.

APPLIED TECHNOLOGY & MANAGEMENT (ATM)

ATM is a Florida Corporation providing coastal, civil, environmental, marine, and water resources engineering services to an array of public and private clients. Founded in 1984, ATM has a staff of 65 in eight offices on the east coast. ATM has been providing multidisciplinary engineering, surveying, and permitting support to coastal projects for over 26 years and is particularly knowledgeable of the needs and issues of coastal communities within the State. Their staff is frequently called upon for expert witness testimony and senior staff regularly serve in peer review roles for projects and studies.

ATM has worked on several marine projects in North Palm Beach, including renovations to the North Palm Beach and Old Port Cove Marinas providing insight into local conditions and past work experience directly with Village staff. ATM has also provided quality engineering and consulting services under continuing service contract agreements with the State of Florida, as well as various Florida Counties and Municipalities.

Coastal and Marine Engineering

ATM is a recognized industry leader in the field of coastal and marine engineering and has considerable experience with both Federal and non-Federal projects.

Their group provides services relating to the development, enhancement, and maintenance of coastal projects, including privately and government-funded programs such as shoreline stabilization, erosion control structure analysis and design, inlet management planning, dredging, beach nourishment and restoration planning, sand source identification, detailed engineering design, construction document development, contractor bid support, construction management, performance monitoring, impact assessment, and mitigation planning and execution. ATM has applied traditional and innovative solutions to long-term erosion areas, as well as constructed beaches for various Florida counties, municipalities, homeowner associations, and other domestic and international public/private developments.

ATM's coastal and marine engineers provide complete in-house services, with capabilities including planning and structural design of bulkheads, seawalls, boat ramps, fixed pier design, floating dock performance specification/shop drawing review, dredging/disposal, shoreline stabilization, mooring field design and permitting, and utility design (among other services). Services offered by the firm include, but are not limited to those outlined below.

Coastal and Marine Structures – ATM has inspected, designed, permitted, and constructed numerous coastal structures including jetties, bulkheads, boat ramps, seawalls, breakwaters, docks, artificial reefs, and groins. Inspection services include both above and below water inspections, evaluations of structural integrity, life expectancies, alternatives for structural rehabilitation, and cost estimates for repair and/or replacement. ATM has significant experience in condition assessments of existing marine structures and proposed marine development sites and is exceptionally adept at evaluating shoreline stabilization structures such as bulkheads and revetments, and existing waterfront facilities (boat ramps, piers, docks, marinas). These analyses consider not only structural and design elements, but also environmental factors that may affect marine structures such as tropical storm probability, storm surge, current induced scour and other associated forces.

Waterfront Planning and Navigation Studies – ATM offers comprehensive waterfront planning services including navigation and boating access studies which can be used for public and private marine planning. ATM has worked on hundreds of marine facilities in the United States and internationally where access and planning of various marine structures such as dry storage facilities, public/private marina berths, boat ramps, and pedestrian boardwalks were appropriately melded with master planning efforts for existing

and proposed upland areas. ATM maintains a database of boating registrations and other user trends as part of a suite of tools used for future marine project planning.

Environmental Permitting and Negotiations – ATM staff members are able to quickly and efficiently negotiate Federal, State, and local permitting issues. They understand the technical, environmental, legal, and public awareness issues involved and have a strong, cooperative, and ongoing relationship with the local, State, and Federal permitting agencies with which we work on a daily basis.

Dredge Design – ATM has permitted, designed and provided construction management services for millions of cubic yards of dredging and disposal projects throughout Florida and the Southeast, as well as in the Bahamas and the Caribbean. Their staff engineers are highly experienced in open-water disposal design and planning, engineered confined disposal facilities for upland disposal, and development of beneficial uses for dredged material. Additionally, ATM is well-versed in the various permitting requirements for monitoring of dredging projects.

Funding Assistance - ATM is well versed in the proactive consultation and pursuit of grant opportunities for projects within the coastal zone and can identify and prepare grant applications for relevant programs. ATM staff are regularly involved in grant efforts and are very active in FEMA storm restoration projects, FIND grant funding opportunities, and other Federally reimbursable projects.

Coastal Modeling – ATM maintains significant modeling capabilities for a range of issues including beach erosion, inlet hydrodynamics, and estuarine water quality. Their staff has developed specific modeling techniques to assess the potential impacts of projects on adjacent areas and have successfully applied these to projects in various Florida coastal regions.

Shoreline Management Plans – ATM has helped a number of municipalities and counties develop and implement comprehensive shoreline management plans. These plans included an assessment of current conditions, technical, environmental, and financial constraints, project alternatives, need prioritization, and project opportunities.

Post-Storm and Emergency Services – The ATM team is able to respond quickly to provide post-storm assessments. ATM has previously provided clients with the services necessary for FEMA assistance and responded quickly to environmental disasters such as ship groundings and cable drags across coral reefs.

Inlet Experience – ATM has developed a number of inlet management plans and is actively involved in several inlet design, construction, and maintenance projects. This includes assessments of inlet impacts to the coastal system, inlet design for navigation, maintenance optimization, dredging, and jetty construction. ATM recently completed a comprehensive assessment of the South Lake Worth Inlet, maintenance dredging of Sebastian Inlet, and has conducted a review of the proposed Port Everglades bypassing plan for a private client. ATM is also involved in a number of inlet dredging and construction projects internationally, including a new inlet in Grand Bahama, maintenance dredging of Bimini Inlet in the Bahamas, and jetty construction and maintenance dredging for a project in Providenciales, Turks and Caicos.

Federal Beach Nourishment Projects – ATM has provided support to federal projects for over 25 years. This includes development of Federal Design and Authorization documents for Federal Beach Nourishment projects including the completion of General Re-evaluation Reports (GRR), Limited Re-evaluation Reports (LRR), and Design Memoranda (DM). ATM staff members have conducted storm damage assessments using the USACE SDM model, and have been involved in the review and approval process for federal projects.

Environmental Resources – The ATM team is experienced in the identification of coastal resources including corals and seagrass and the development of programs that minimize impacts to these resources. ATM has successfully designed, permitted, and constructed projects in the vicinity of significant seagrass and hardbottom resources. Capabilities offered by our firm include aquatic and terrestrial species surveys, vegetation mapping, identification of wildlife habitat, protected species surveys, monitoring, and management, and development of mitigation and habitat management plans. ATM teams work with habitat restoration, jurisdictional wetlands delineation, compliance monitoring, and specialize in effectively negotiating solutions to permitting "road blocks." As part of ATM's working history with Palm Beach County's Department of Environmental Resource Management, staff have performed seagrass surveys of the Lake Worth Lagoon system over multiple years.

Endangered Species – ATM's coastal staff and ecologists regularly address issues with endangered species and NEPA requirements. This includes significant experience with sea turtles, shorebirds, beach mice, manatees, and Right Whales. In addition, staff members are familiar with and are currently working on issues associated with the recent federal listing of Acropora coral species.

Coastal Park Facilities and Infrastructure – ATM maintains full civil engineering capabilities and staff regularly support

projects with infrastructure and facility needs. This includes working with a range of master planning and architectural interests for new development and redevelopment.

TMDL Experience – ATM provides comprehensive solutions to a wide range of water-related issues including complex hydrodynamic, hydraulic, and water quality modeling; monitoring program development and implementation; impact assessment; and detailed hydraulic design support. ATM has considerable expertise in the area of water quality assessment with specific direct experience dealing with the Total Maximum Daily Load (TMDL) program in Florida as well as recent issues related to changes to Stormwater regulations and potential changes to the State water quality standards through potential numeric nutrient criteria implementation. Specific TMDL support contracts include FDOT Central Office, Leon County, FL, Hillsborough County, FL, and Pasco County, FL.

GIS/CADD Services – ATM maintains state-of-the-art CADD and GIS capabilities with updated software and experienced and trained technical staff. Their GIS and CADD technicians are familiar with current requirements and standards for surveying and engineering applications.

Public Involvement – ATM staff routinely participate in public meetings, planning workshops, county commission meetings, and interagency meetings as needed during the life of a project. Their technical representatives pride themselves on their ability to effectively communicate with the public and to develop specific outreach plans to manage the information distributed. They typically provide bidding and construction administration services for our projects. These services include bidding assistance, coordination meetings, shop drawing reviews, change order administration, construction observation, certification of completion, and record drawing review.

WEILER ENGINEERING CORPORATION (WEILER)

Weiler Engineering Corporation

Weiler has been engineering waterfront, utility, and land development projects, and working with private and municipal client's throughout the Florida Keys, since 1993. They understand the requirements and processes necessary to complete projects in the unique environment of the Florida Keys.

They recognize the sensitive nature of the Florida Keys and the stringent regulatory requirements set forth to protect the environment and surrounding natural beauty. Weiler acknowledges the necessity to work as a team with the Department of Environmental Protection, the South Florida Water Management District, US Army Corp of Engineers, Reef Relief, FEMA, Florida Fish and Wildlife, Monroe County, and the Department of Community Affairs, and we have garnered a relationship with each agency. We have staff that have worked for the FDEP and USACOE for this specific region and they have unsurpassed knowledge regarding the regulatory requirements for projects of this nature.

Weiler also understands that everything costs money and it is absolutely the responsibility of the Design Consultant to be involved in the budgeting, value engineering, and to assist the client in evaluating any alternatives. The nature of the work and the difficulty of procuring qualified contractors and reasonable bids in the Florida Keys is a tremendous responsibility at which WEC has proved to be very successful by preparing complete, accurate, and detailed plans and specifications.

Over the past 18 years, the company has steadily grown to a staff size of 31 highly skilled professionals who staff their Port Charlotte headquarters and Florida Keys office locations. Through the years, Weiler has sought individuals of the highest skill levels from within Florida and around the United States and has built the talented team the company offers today.

GFA INTERNATIONAL, INC. (GFA)

Keith and Schnars and GFA International have worked together nearly every day for the past several years – our firms are a true team. Within the past year, we have worked together on our EIS for Port St. Lucie, the Herbert Hoover Dike rehabilitation, the Pompano Park groundwater plume, a land development project in Tamarac, and many other projects.

GFA's geotechnical engineers and field staff have provided a full range of geotechnical services for our clients for over 2 decades. These services, which begin at conceptual and preliminary design stage, continue through the development of final plans and specifications, and conclude with consultation and coordination during construction, include the following:

- Geotechnical Analysis & Recommendations: Foundations, Soil Improvement, Stabilization
- Pavement Evaluations
- Geophysical Studies
- Subsurface Exploration and Drilling Services

- Monitoring Well & Pile Installation and Load Testing
- Pile Driving Analysis
- Vibracore Sampling
- Site Monitoring and Earthwork Observation
- Ground Penetrating Radar (GPR)

GFA owns and operations its own drilling equipment and support vehicles and we can respond quickly to requests for subsurface soil sampling and installation of monitoring wells. Our drilling crews know auger and wash boring techniques. GFA geotechnical crews are experienced in split barrel sampling and rock coring and utilize standard penetration tests to collect data. In turn, our professional engineers and geologists analyze this data to determine the nature of subsurface soils and general geomorphic conditions and make design and site preparation recommendations.

GFA also provides a full scope of construction materials testing services which includes all laboratory testing and standard field tests required on asphalt, concrete, soils, masonry, aggregate materials as well as non-destructive testing methods. Each GFA laboratory is certified and validated by the Construction Materials Engineering Council (CMEC), Florida Department of Transportation (FDOT) and the US Army Corps of Engineers (USACE). Our field technicians are certified by the American Concrete Institute (ACI) and the Florida Department of Transportation Construction Training Qualification Program (CTQP).

STARR WHITEHOUSE LANDSCAPE ARCHITECTS AND PLANNERS (STAR WHITEHOUSE)

STARR WHITEHOUSE
Landscape Architects
and Planners PLLC

Starr Whitehouse was formed by Laura Starr and Stephen Whitehouse to focus their professional commitment on making places more livable, green, and vibrant. Their approach brings energy and creativity to the challenge of finding what is genuine and sustainable, a challenge that starts with recognizing the strata of natural systems, physical organization, social systems, regulations, history, and culture that come together in a location. With this base, recommendations and designs emerge through consensus-building and inspiration.

Starr Whitehouse values collaboration with clients, the public, allied disciplines, and specialists. As leaders and members of teams, Starr Whitehouse believes that communication and collaboration yield the richest results and the most effective partnerships.

With comprehensive experience in parks, green spaces, urban design, and environmental planning in New York City and beyond, Starr Whitehouse spans a continuum of planning, strategy, and design through to implementation and management to create value and meet the specific needs of their clients. Their professional staff, planners, urban designer, and landscape architects, allows our firm to develop work that bridges planning problem through to design solutions.

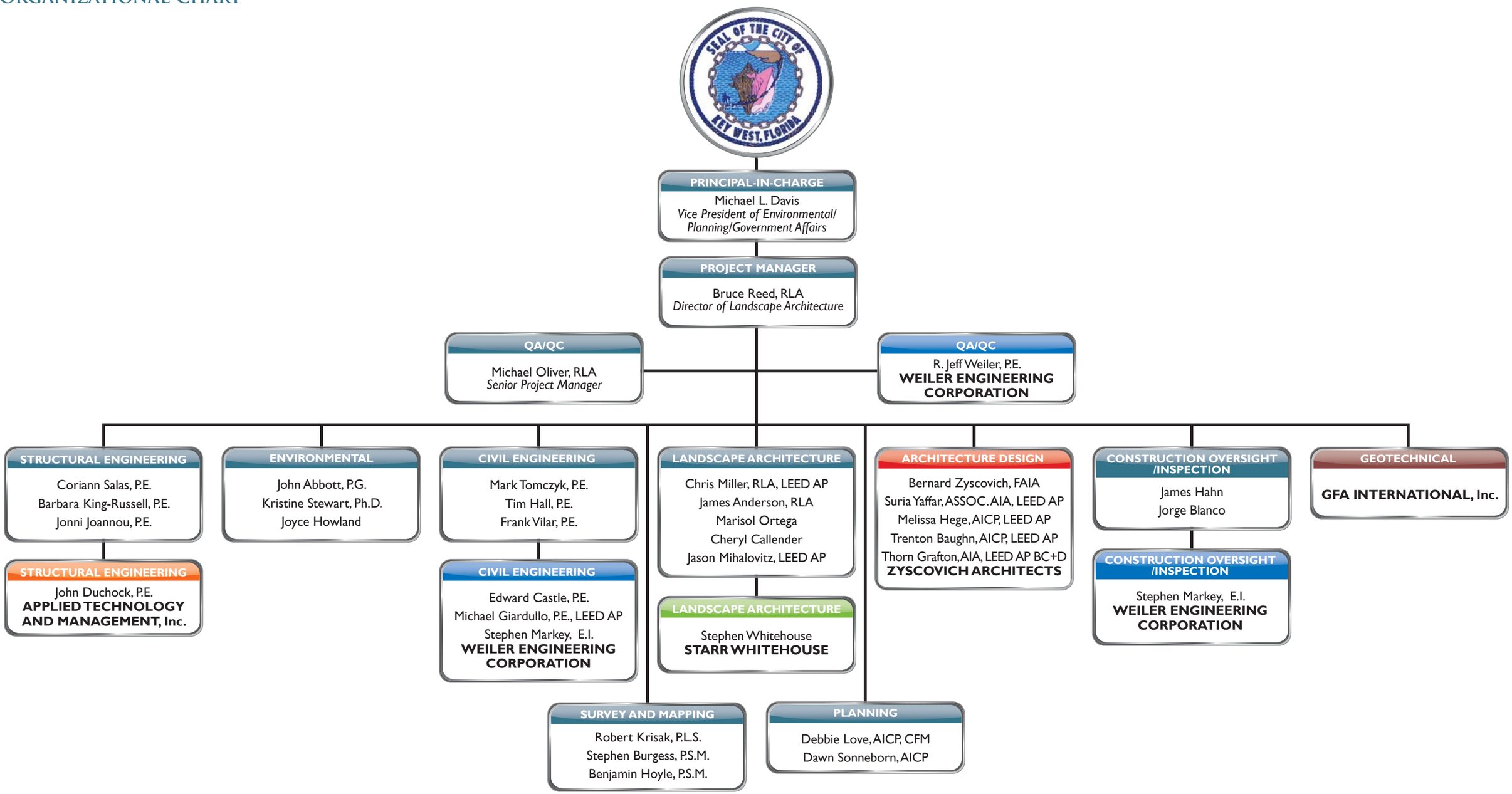
Planning

Solving planning problems starts with formulating the essential questions. For each problem, they craft a pointed analysis, speaking to a host of relevant issues, such as development pressures, environmental considerations, built heritage, and land capacity. Starr Whitehouse's projects range in scale and scope from streetscape improvements, to larger downtown plans, to zoning and policy. Each incorporates the common threads of responsible development and community identity.

Landscape Architecture

Starr Whitehouse also relishes the art of making spaces. They believe that each place has its own place in the natural and cultural world. Their extensive experience in landscape design allows them to express the uniqueness of each place, through an understanding of a site's specific conditions.

ORGANIZATIONAL CHART



Weiler Engineering Corporation
STARR WHITEHOUSE Landscape Architects and Planners PLLC
ATM APPLIED TECHNOLOGY & MANAGEMENT
ZYSCOVICH ARCHITECTS
GFA INTERNATIONAL
KEITH and SCHNARS, P.A. FLORIDA'S Big LOCAL FIRM

Michael L. Davis

Academic Background

M.S., Biology, Austin Peay State University, 1981

B.S., Biology and Environmental Science, Austin Peay State University, 1977

Professional Civic Involvement

Treasure Coast Regional Planning Council Board Member (Gubernatorial Appointee)

Member FICE Water Resources Committee

Chairman, USACE Subcommittee

Member, Board of Directors& Chairman, Stewardship Committee, Pine Jog Environmental Education Center

Member, Board of Directors& Chairman, Real Estate Committee, Florida Atlantic University Foundation

Chair, LLS Light the Night Executive Committee

Mr. Davis is a Vice President and Principal of Keith and Schnars. In this role, he is directly responsible for the management of projects in five areas – Transportation Planning, Urban Planning, Landscape Architecture, Public Information & Outreach, and Environmental Sciences. Mr. Davis has a notable background in water resources, environmental policy, legislation and governmental relations, including NEPA. He has served in a senior capacity in the Army Corps of Engineers, the White House Council on Environmental Quality, the Environmental Protection Agency and the United States Department of the Interior. Mr. Davis served for five years as the Deputy Assistant Secretary of the Army. In this role, he was responsible for policy and legislation for the Army Corps of Engineers' civil works program. This included the development and authorization of the Comprehensive Everglades Restoration Plan and three Water Resources Development Acts. In addition, Mr. Davis served as the Chair of the White House Wetlands Working Group and was instrumental in the development of national wetlands policy and regulations. He also served as DOI's Director of Everglades Restoration where he was responsible for the development and coordination of policy; and legislative and budget proposals related to the restoration of the South Florida Ecosystem.

With his extensive knowledge of state and national water and environmental policy, wetlands regulations and legislation, Mr. Davis leads Keith and Schnars in its environmental, planning and government markets. His reputation and recognition by environmental agency leaders and staff in the state of Florida and in Washington, D.C. offers our clients a profound resource for resolving environmental issues as well as policy and legislative consulting services.

Relevant Experience

Senior Project Manager for the **Crosstown Parkway Extension Environmental Impact Statement (EIS).**

Senior Project Manager for the **South Miami-Dade Watershed Study and Plan**, the largest water resources planning effort ever undertaken in Florida.

Senior Project Manager for the Monroe County Comprehensive Plan Update.

Provided senior oversight and policy direction for the development of the C**omprehensive Everglades Restoration Plan (CERP).**

Led the Federal government's efforts in the development and authorization by Congress of **CERP legislation**. Also led the development of three national **Water Resources Development Acts** *(1996, 1999, 2000)*.

Served as Senior Manager for two **CERP projects**, including the **Acme Basin B** project. Also led or co-led the development of **National Wetlands Policy**, including mitigation and mitigation banking policy and the Corps' Nationwide permit program.

Led the development and authorization of innovative legislation on development in flood plains and served as the **Department of the Army representative** on the following Task Forces: Floodplain Management, Brownfields, American Heritage Rivers, Clean Water Action Plan, Wetlands Working Group and Coastal America.

Bruce Reed, RLA

Academic Background
B.S., Landscape Architecture, University of Florida, 1987

Professional Registration
Registered Landscape Architect, FL #06125

Professional Certifications
Crime Prevention Through Environmental Design (CPTED) December 1998

Professional Affiliations
American Society of Landscape Architects

Mr. Reed has extensive experience in a wide variety of projects where he has provided a full range of landscape architectural services. These services consist of the following land development activities: master planning, programming, plan review, site design and development, landscape and irrigation design, cost analysis, environmental mitigation design/permitting, site approval processing/permitting and public/client presentation. As an experienced project manager, Mr. Reed has competently prepared and administered construction and bid documents, QA/QC, contract negotiation, written reports and correspondence, review of project invoices and construction observation. As a divisional staff supervisor, he directs and schedules the design teams in completion of landscape architectural design development. Mr. Reed has developed a perceptive understanding of park and recreational facility design and has consistently established positive rapport with municipal and agency personnel. He has demonstrated responsible capabilities in team coordination and client/staff/public project comprehension and status awareness. He also has significant experience in the areas of roadway and streetscape beautification design and commercial/industrial/residential land development analysis and design. In addition, he possesses a wide range of state-of-the-art computer technology capabilities resulting in the presentation and submission of the latest computer-aided calculations, reports and design production by his design team.

Relevant Experience

Sunset Lakes Municipal Complex, Miramar, FL: Programming, Master Planning, Site Planning, Planting Plan, Irrigation Design, Permitting, Construction Drawings, Specifications for a 26-acre park/ municipal complex design build project.

Town of Lantana Municipal Beach Complex, Lantana, FL: Park master planning; programming, survey, design, citizens and park user's survey, public meetings; opinion of implementation cost, concepts, preliminary and final master plan.

Florence Hardy Park, Fort Lauderdale, FL: Master plan and grant assistance for park renovations including a greenway trail, pedestrian gateway feature, 1/2 –mile pedestrian trail, skate amenities, volleyball court, basketball courts, tennis court practice walls/handball courts, pavilions, a gazebo, a tot lot, a playground, renovations to lawn bowling/croquet field area, a native garden, trellis seating areas, a recreation center, decorative pavement, and parking lot additions. (2004)

Miramar Town Center, Miramar, FL: Served as the Project Manager, providing landscape architecture services for this urban mixed-use development. The Miramar Town Center was designed as an idyllic traditional downtown with pedestrian oriented streets, beautiful Mediterranean style architecture, "main street" store fronts and waterfront views characteristic of historic towns of Florida. Site amenities included a plaza, fountain, site furniture, decorative pavers, planters, tree grates, and landscape lighting.

Marathon City Hall and Events Field, Marathon, FL: Keith and Schnars is providing professional services associated with assisting in the development of a design-build package for Marathon City Hall and Events Field. These services include: design criteria performance specifications, geotechnical testing and assistance with the design/build selection process.

North Beach Pavilion, Deerfield Beach, FL: Design, permitting, construction drawings and specifications, permitting, bidding and contract administration for Beach pavilion & restroom facility. This project incorporated a new pavilion, restrooms, a paver plaza deck, drinking fountain and showers. Pedestrian beach access is provided through the hardscape plaza. Permitting included the Florida Department of Environmental Protection Coastal Construction Control Line as well as the City of Deerfield Beach Building Department.

Michael Oliver, RLA, FASLA

Mr. Oliver has over 40 years experience as a professional Landscape Architect. His involvement has been in all scales of landscape architecture and planning. Projects include residential, commercial, governmental and institutional. As the chief planner for a major Florida land development company, he has had extensive experience with a wide range of project scales from the analysis phases through approvals, presentations, bidding, construction and post construction. Mr. Oliver joined Keith and Schnars leaving a successful practice of 25 years where his expertise in commercial and municipal design was valued statewide. In addition to his administration, proposal, correspondence, report and staff coordination duties at Keith and Schnars, he was responsible for specifications, scheduling, inter-professional coordination, bid documents, and construction observation. He has also had varied experience in municipal beautification and public works projects. Additionally, Mr. Oliver has particular knowledge and expertise as an analytical and expert witness in landscape liability issues. As a former graduate professor, he is able to draw on contemporary design techniques to generate quality projects timely delivered.

Academic Background

B.A., Business AdministrM.L.A., Landscape Architecture, Florida International University, 1991

B.L.A., cum laude, Landscape Architecture, University of Florida 1970

Undergraduate studies in Civil Engineering, University of Michigan

Graduate studies in Urban and Regional Planning, Florida Atlantic University

Professional Registration

Registered Landscape Architect, FL #0000354

Professional Certifications

Council of Landscape Architectural Registration Board Certificate # 685

Memberships

Fellow: American Society of Landscape Architects

Relevant Experience

Monroe County Comprehensive Plan, Monroe County, FL: Keith and Schnars is updating the Comprehensive Plan for the Florida Keys. Mr. Oliver is responsible for analyses of parks, recreation, and parks level of services standards. Client/Contact: Monroe County BOCC/Christine Hurley, Growth Management Division Director. (12/09 to Present)

City of Tamarac Streetscape and Public Works Projects, Broward County, FL: Design and execution of various projects such as streetscape redevelopment plans for 3 main streets and public works projects such as park renovations, municipal building renovations and ordinance review. Client: City of Tamarac

Town of Lantana Municipal Beach Complex, Lantana, FL: Park master planning; programming, survey, design, citizens and park user's survey, public meetings; opinion of implementation cost, concepts, preliminary and final master plan.

Miramar Town Center, Miramar, FL: Keith and Schnars provided landscape architecture services for this urban mixed-use development. The Miramar Town Center was designed as an idyllic traditional downtown with pedestrian oriented streets, beautiful Mediterranean style architecture, "main street" store fronts and waterfront views characteristic of historic towns of Florida. Site amenities included a plaza, fountain, site furniture, decorative pavers, planters, tree grates, and landscape lighting.

Ingraham Avenue Streetscape, Haines City, FL: Master Planning, hardscape design and details, site amenities, planting and irrigation design. Client: City of Haines City

Plantation Central Park, Plantation, FL: Site planning, planting plan, irrigation design, specifications, bidding and construction observation for a 100-acre municipal regional park. Client/Contact: City of Plantation/Paul DeBernardo, Phone: (954) 797-2221. (2000)

Lyons Road, Coconut Creek, FL: Hardscape, planting, and irrigation design for a multi-phase main roadway corridor compliant with City's master planning. All plans ware prepared in compliance with FDOT LAP specifications and for public bid. Client/Contact: City of Coconut Creek/Pamela Stanton, Phone: (954) 956-1463. (2004 to Present)

Coriann Salas, P.E.

Ms. Salas has experience working with State and Local government entities as well as private clients. She worked in the area of structural engineering and management for 9 years. Her experience encompasses complete project plans and specifications preparation, RFP development, repair and rehabilitation recommendations, design-build projects and plans reviews. Primary types of structural design projects she has completed include AASHTO girder bridges, steel truss bridges, bridge widenings, noisewalls, retaining walls, box culverts, foundations and various pedestrian facilities such as pedestrian bridges, elevated platforms, boardwalks and other miscellaneous concrete and steel strucutres.

Academic Background

B.S., Civil Engineering, University of Central Florida, 2001

Professional Registration

Professional Engineer, FL #64779

Professional Affiliations

American Society of Civil Engineers

American Institute of Steel Construction

Relevant Experience

Districtwide General Engineering Consultant, Miami-Dade and Monroe Counties, FL: Prime consultant to District 6 for this task work order driven contract. Ms. Salas has performed numerous tasks under this contract and the past year, has served as the Structural Project Manager for the contract. *Client: FDOT District 6. (2002 to Present)*

Rickenbacker East Fishing Pier Repairs, Miami-Dade County, FL: Post Design engineer for the analysis of the existing pier cap for the construction loads during repair work. Additionally, perform analysis of pier structures based on construction conditions during repairs that deivated for the plans. *Client: Miami-Dade Public Works Department. (2009 to Present)*

I-95 to Turnpike Connector Ramp Widening at Golden Glades, Miami-Dade County, FL: Design Engineer responsible preparing 30% bridge plans and design calculations for the widening of I-95 connector ramp for inclusion into the RFP Package and performing as the owner's representative during the design build process. *Client: FDOT District 6. (2009 to Present)*

NW 122nd Street Bridge Widening, Miami-Dade County, FL: Engineer of Record for a single span cast in place flat slab bridge widening supported on two retained abutments crossing a canal. The design method used was LRFD. *Client: FDOT District 6. (2006 to 2010)*

I-95 Managed Lanes, Miami-Dade County, FL: Engineer of Record for the structural toll gantry plans, design engineer responsible preparing 30% bridge plans and design calculations for the widening of I-95 over the SR-112 to I-95 Northbound Ramp, including MSE wall control drawings. Performed as post design project manager for structural submittal reviews on behalf of the FDOT for FDOT compliance of AASHTO Girder bridge plans. *Client: FDOT District 6. (2007 to 2010)*

Sonovoid Bridge Repairs, Miami-Dade County, FL: Designer for the repair and reconstruction of six prestressed sonovoid slab bridges located within Miami-Dade County. *Client: Miami-Dade Public Works Department. (2006)*

Crosstown Parkway over I-95, St Lucie County, FL: Engineer of Record for sign structures. Design Engineer responsible for the new two-span skewed 264-ft long AASHTO beam bridge on Crosstown Parkway spanning over I-95. *Client: FDOT District 4. (2005 to 2006)*

I-95 Pedestrian Overpass, Miami-Dade County, FL.: Design Engineer for the replacement of an existing pedestrian truss. The final design resulted in the replacement of the 214-foot long truss over a congested 12-lane interstate highway. The new truss is a 230-foot long signature hollow structural steel (HSS) truss near the northern entrance to Miami-Dade County. *Client: FDOT District 6. (2003 to 2004)*

Barbara King-Russell, P.E.

Ms. King-Russell has over 20 years of civil and structural engineering experience, including planning, design, construction engineering and inspection, and writing of procedures and specifications, for pedestrian and vehicular facility projects including bridges, retaining walls, sound barrier walls, box culverts, and miscellaneous concrete and steel structures. She has extensive experience designing and coordinating FDOT projects as well as projects for cities, counties and other clients. Through her direct experience designing and coordinating structural projects, Ms. Russell specializes in the proactive identification of potential construction and fabrication issues during the design phase, as well as coordination with the Contractor and fabricator to streamline the approval and construction processes through responsiveness and practicality of design.

Academic Background

B.S., Civil Engineering, Rensselaer Polytechnic Institute, Troy, NY, 1981

Professional Registration

Professional Engineer, FL #41956

Relevant Experience

Andrews Avenue Bridge over CSX RR and MLK Boulevard, Broward County, FL: Project included a new 604-ft long, 3-span continuous, steel plate girder bridge, located over an at-grade railroad crossing, with a reverse curvature alignment and highly skewed straddle piers. Ms. Russell prepared control plans for MSE walls, in addition to design calculations and control plans for temporary sheet pile retaining walls required for construction of pier footings and nearby box culvert replacement. *Client: FDOT District 4. (2004 to 2005)*

I-95 over Canal C-24, St. Lucie County, FL: Engineer of Record for widening and slab replacement of skewed 416-ft, 6-span AASHTO prestressed beam bridge (AASHTO LRFD design). Ms. Russell was responsible for overall structural and geometric design of the bridge, including design of the superstructure and substructure. *Client/Contact: FDOT District 4/John Danielsen, P.E., Phone: (954) 777-4644. (10/06-9/09)*

Keys Emergency Bridge Piers, Monroe County, FL: Design Engineer for reevaluation of plans for temporary piers to support an Acrow bridge superstructure for the Florida Keys bridges on SR-5/US-1 in the event of an emergency situation requiring a detour on a bridge. Ms. Russell prepared design plans and finite element analysis for steel truss pier. *Client: FDOT District 6. (2003)*

LeJeune Road Flyover, Miami-Dade County, FL: The structure consists of a 500-ft. radius curved twin steel box bridge. The structure is a 3-span continuous bridge with spans of 210', 262' and 210', and carries traffic from Lejeune Road on to Okeechobee Road. Ms. Russell performed post design services, reviewing shop drawings and investigating Contractor's Requests for Information. Client: FDOT District 6. (2002 to 2003)

Evans Crary Sr. Bridge, Martin County, FL: This structure is a high-profile, 17-span post-tensioned segmental bridge with spans of 180-ft, overall length of 3904.2-ft and vertical clearance of 65-ft, on pile-supported piers over St. Lucie River. Ms. Russell prepared substructure design loads, including ship impact loading. Ms. Russell checked substructure design using Florida Pier computer program. Prepared control plans for permanent MSE walls. Prepared design calculations and control plans for temporary sheet pile retaining walls required for multi-phased staged construction. *Client/Contact: FDOT District 4/John Danielsen, P.E., Phone: (954) 777-4644. (1/92 to 10/96)*

Palm City Bridge, Palm City, FL: The structure is a 16-span AASHTO beam bridge with a cast-in-place concrete deck continuous over six spans. Fifteen 112-foot long approach spans lead up to the 129-foot long main channel span supported on pile-supported piers over St. Lucie River. Ms. Russell designed prestressed beams, prepared finite element model of pier, and prepared COM624 analysis of various pile types for substructure design which included ship impact loading. *Client: FDOT District 4. (1989 to 1990)*

I-95 Sound Barrier Walls, Broward County, FL: Design Engineer for Value Engineering of Original FDOT Sound Barrier Walls in Broward County. Ms. Russell prepared design and details, which were later adopted as a State Standard. *Client: FDOT District 4. (1989 to 1990)*

Joannis "Jonni" Joannou, P.E.

Mr. Joannou has over 49 years of experience in the field of bridge engineering. He is thoroughly familiar with all facets of FDOT bridge design, rehabilitation, and reconstruction projects. His consulting experience includes administration, project management, and structural design positions, and he served as a Structural Design Engineer for FDOT District 4 for over 10 years, earning several design awards and working to develop the Florida Pier design program. He has extensive experience in the design of simple and complex concrete and steel bridges including curved steel box girders as well as pile and drilled shaft foundations, seawalls, noise walls, and culverts. Mr. Joannou's bridge design experience includes decorative piers, integral pier caps, and ship impact considerations.

Academic Background

B.S., Mechanical Engineering, University of Witwatersand, Johannesburg, South Africa, 1958

B.S., Civil Engineering, University of Witwatersand, Johannesburg, South Africa, 1961

Professional Registrations

Registered Professional Engineer, FL #42176, South Africa, and CT

Awards

Recipient of FDOT's Bill Dean Award for Bridge Design, 2001 and 2005

Relevant Experience

FDOT District 6 Plans Review, Work Groups 4.2.1 & 4.2.2, Miami-Dade County, FL: As part of the District 6 General Consultant Contract reviewed bridge plans and calculations for the reinforced concrete piers for a 5-span multiple steel box bridge, with a maximum span of 237', and for the post-tensioned piers for a 3-span steel plate girder bridge, with a maximum span of 254', on the Section 2 SR-826 Improvement Project. (2007 to Present)

I-95 Managed Lanes, Work Groups 4.2.1 & 4.2.2, Miami-Dade County, FL: Performed post design service reviews for FDOT compliance for steel girder and AASHTO Girder bridge plans as well as sign structures. *Client: FDOT District 6. (2008 to 2010)*

Evans Crary Bridge, Work Group 4.2.1, Martin County, FL: This structure is a high-profile, 17-span post-tensioned segmental bridge with spans of 180-feet and vertical clearances of 65-feet. The bridge utilized decorative piers, tapered at the top to match the slope of the concrete segments for the purposes of aesthetics. The piers were founded on prestressed concrete piles designed to resist a ship impact load. The design was performed in accordance with AASHTO LFD. Mr. Joannou was the Engineer of Record during the preliminary design phase and prepared the Bridge Development Report. At the time of the project, Mr. Joannou was one of the first users of the FDOT's Florida Pier program and played a key role in helping the FDOT trouble-shoot the software's early releases with respect to ship impact design. Mr. Joannou was the Engineer of Record and did part of the substructure design before leaving Keith and Schnars to join FDOT. The bridge was awarded one of the 2001 Top Ten Bridges by Road and Bridge magazine. *(1995)*

I-595 Slip Ramp, Work Group 4.2.1, Broward County, FL: This structure is a 9-span continuous cast-in-place reinforced concrete slab bridge traversing a deep drainage lake adjacent to I-595. The spans are 42 foot long and are supported on pile bents. The piles have unsupported lengths of up to 40 feet. The structure was designed in accordance with AASHTO LRFD. Mr. Joannou was the Designer of Record and performed the design, supervised a junior Engineer, and personally drafted about 50% of the drawings. *Client: FDOT District 6. (2007)*

Bridge on Glades Road over El Rio Canal, Work Group 4.1.2, Boca Raton, FL: Mr. Joannou was the Engineer of record for the widening of this reinforced concrete slab bridge. *(2002)*

Sheet Pile Wall and Pipe Culvert Bridges, Work Group 4.1.2, Plantation, FL: Mr. Joannou was the Engineer of Record for this project, which included 5000 feet of sheet pile wall adjacent to a canal and two aluminum pipe culvert bridges. The bridges were finished in Chicago brick and a decorative steel handrail was used on top of the wall. *(2003)*

John Abbott, P.G.

Mr. Abbott is the Director of the Environmental Sciences and Water Resources Planning Division at Keith and Schnars. In this capacity, he oversees all environmental projects in the firm, including environmental permitting, wetland mitigation and design, Everglades projects, and threatened and endangered species management projects. He has served as project manager or technical lead on over 30 multi-million dollar environmental restoration projects.

Academic Background

M.S., Geology, New Mexico Tech, 1995

B.S., Geology, Virginia Tech, 1992

Professional Registration

Registered Professional Geologist, FL PG#2401

Professional Affiliations

Florida Association of Environmental Professionals

American Water Resources Association, Florida

Relevant Experience

South Miami-Dade Watershed Study and Plan (SMDWSP), Miami-Dade County, FL: The South Miami-Dade Watershed Study and Plan was a $3 million scientifically-based planning effort that provides the framework for making land use decisions for 371 square miles over the next 50 years. Mr. Abbott served as Deputy Project Manager and was responsible for assessing the effect of projected increases in population growth on natural communities, including wetlands and remnant natural forests and assessing the impacts on Biscayne Bay. The project won the 2007 Award of Excellence from the Florida Chapter of the American Planning Association. *Client/Contact: South Florida Regional Planning Council/Bob Daniels Phone: (954) 985-4416. (6/04 to 4/07)*

Monroe County Comprehensive Plan, Monroe County, FL: Keith and Schnars is updating the Comprehensive Plan for the Florida Keys. Mr. Abbott is responsible for analyses of soils, water quality, floodplains, seagrasses, coral reefs, wetlands, beaches, upland vegetation, protected species, air quality, water uses, hazardous wastes, areas of particular concern, and effects of future land use on natural resources.

Indian Trails Grove Development of Regional Impact (DRI), Palm Beach County, FL: Keith and Schnars is providing full-service consulting services for the planning, engineering design, and environmental studies of a 5,000-acre DRI in Palm Beach County. Given the size of the Site and its proximity to natural areas such as the J.W. Corbett Wildlife Management Area, environmental issues are a key consideration in the DRI. Mr. Abbott served as the environmental team lead, managing $100,000 of environmental services. Mr. Abbott collected and analyzed surface water samples, evaluated groundwater quality, and provided oversight of wetland and wildlife surveys. Mr. Abbott identified potential impacts to natural resources such as wetlands, uplands, wildlife, surface water, and groundwater, and identified approaches to avoid, minimize, and mitigate for those potential impacts. *Client: GL Homes. (6/06 to 9/07)*

PD&E and EIS for Crosstown Parkway Extension, New Bridge Crossing over the North Fork of the St. Lucie River, St. Lucie County, FL: Keith and Schnars is leading a Project Development and Environment Study (PD&E) and Environmental Impact Statement (EIS) to evaluate a new river crossing over the North Fork of the St. Lucie River that will link U.S. Highway 1 and Crosstown Parkway, a major east-west transportation corridor within Port St Lucie. Mr. Abbott prepared the Contamination Screening Evaluation Report and provided oversight of the field assessment of the river and upland communities (approximately 850-acres), including habitat mapping of the project area, surveys for threatened and endangered species, wetland delineations at an aerial photograph level, and an Essential Fish Habitat Assessment. *Client: City of Port St. Lucie. (2008 to 2009)*

EIS for Crosstown Parkway Extension, St. Lucie County, FL: Keith and Schnars is leading a PD&E and Environmental Impact Statement (EIS) to evaluate a new river crossing over the North Fork of the St. Lucie River. Mr. Abbott prepared the Contamination Screening Evaluation Report and provided oversight of the field assessment of the river and upland communities (approximately 850-acres), including habitat mapping of the project area, surveys for threatened and endangered species, and wetland impact assessments. *Client: City of Port St. Lucie LAP agreement with FDOT District 4. (2008 to 2010)*

Kristine Stewart, Ph.D.

Dr. Stewart is a Senior Biologist with over 20 years of experience in the environmental consulting industry. Her expertise is in botany, plant ecology, and wetland assessment. She has been a project manager for a wide variety of government, municipal, and private clients involving wetland and terrestrial investigations, environmental assessments, and regulatory compliance. Past and current projects range from large transportation projects to private land development.

Academic Background

Ph.D., Biology, Florida International University, Plant Ecology/Ethnobotany, 2001

M.S., Biology, Florida Atlantic University, Aquatic Sciences, 1979

B.S. Biology, University of Wisconsin-Oshkosh, cum laude, 1973

Professional Affiliations

Society of Conservation Biology

Florida Native Plant Society Plant Biologists of South Florida

Society for Economic Botany

Explorers Club, Fellow National Fulbright Scholar, 2006-2007

Relevant Experience

Monroe County Comprehensive Plan, Monroe County, FL: Keith and Schnars is updating the Comprehensive Plan for the Florida Keys. Dr. Stewart is responsible for analyses of soils, water quality, floodplains, seagrasses, coral reefs, wetlands, beaches, upland vegetation, protected species, air quality, water uses, hazardous wastes, areas of particular concern, and effects of future land use on natural resources. *Client/Contact: Monroe County BOCC/Christine Hurley, Phone: (305) 289-2517. (12/09 to Present)*

Emerson Point Trail, Manatee County, FL: Task manager for wetlands delineation of wetlands along a proposed trail expansion to access the Emerson Point Park in Manatee County. Prepared an Environmental Assessment Report that evaluated the site for potential listed species involvement. We are coordinating with the regulatory agencies to assist the client with permitting issues and mitigation requirements.

Stewart Mining, Inc. Everglades Agricultural Area, FL: Project manager for a multi-disciplinary team to determine if a 5,000-acre area in the Everglades Agricultural Area was a jurisdictional wetland subject to regulations under the Clean Water Act. The study conducted on-site soils, vegetation, and hydrology investigations to make the determination. A detailed report was prepared to summarize the analysis and to provide recommendations for further action. *Client: Stewart Mining, Inc. (6/08 to 5/09)*

Itchepackesassa Creek Regional Stormwater Project, Lakeland, FL: Task leader for an Environmental Assessment (EA) and wetland evaluation for a 263±-acre parcel proposed for a regional wetland treatment system. The EA evaluated existing vegetative communities, identified unique or sensitive ecological communities, evaluated the site for listed plant and animal species, and evaluated the existing wetland conditions using the Uniform Mitigation Analysis Method (UMAM). The site is currently being designed. *Client/Contact: Polk County Natural Resources/ Robert Kollinger, P.E., Phone: (863) 534-7377. (6/09 to Present)*

Fort Lauderdale-Hollywood International Airport, Broward County, FL: Project manager for a summary (white paper) of the wetland impact analyses completed and wetland mitigation needs for an expanded runway. Provided an analysis of wetland impacts based on the currently proposed runway configuration and an evaluation of off-site mitigation options. Based on updated information, four years later, provided a current review of wetland impacts, wetland evaluations, and mitigation required for future airport-related projects. Currently provide permitting advisory services, including the preparation of a tree feasibility study for the proposed development of three parcels. *Client: Broward County Aviation Department. (1/04 to Present)*

Joyce Howland

Ms. Howland has over 35 years of professional experience with primary emphasis on environmental permitting and compliance. During Ms. Howland's 30 year tenure with the FDOT, she was responsible for the District 4 environmental permitting program coordinating projects with the state, federal, county and local permitting agencies including the SFWMD, USACE, USCG, FDEP, and DERM. Following her assignment as Permit Coordinator, Ms. Howland served a decade in the District Construction Office overseeing environmental compliance, NPDES tasks, and actively participated in the resolution of non-compliance issues.

Since joining Keith and Schnars, Ms. Howland has coordinated the environmental permitting for many civil and highway projects including the Coral Creek Bridge Replacement project, the 44-mile Tri-Rail Double Tracking project, the Acme Basin B Discharge Project in the Village of Wellington, and the Becker Road and Crosstown Parkway I-95 interchanges. Several of these projects involved complex permit coordination with clients, agencies and other consultants.

Relevant Experience

SR-A1A Construction Projects, FDOT District 4, Palm Beach County, FL: Oversight of the environmental and permitting tasks on the SR-A1A widening and resurfacing construction projects. Tasks included review of permit documents, plans and contractor submittals, permit modifications and submittals, coordination with environmental agencies, contractor and FDOT and compliance field reviews. *Contact: Debra Ihsan, PE, FDOT, WPB, Phone: (561) 434-3900. (5/07 to 8/07)*

El Rio Canal Shared Use Pathway, Boca Raton, FL: Served as the environmental lead in compiling the Categorical Exclusion documents needed to obtain federal funds. One of the three segments involved a County Natural Area requiring a Determination of Section 4(f) Applicability to be coordinated with the FHWA. The construction of the El Rio Shared Use Pathway segments required permits from the SFWMD, USACE, FWC, and the Lake Worth Drainage District. *Client/Contact: City of Boca Raton/Joy Puerta, Phone: (561) 416-3410. (3/10 to present)*

I-95 Interchanges at Crosstown and Becker, Port St. Lucie, FL: Environmental permitting lead for the acquisition of construction permits associated with the new interchanges at Crosstown Parkway and Becker Road. Permits were received from FDOT, FWC, USACE and SFWMD for bridge construction, dewatering, stormwater management, and wetland and species impacts. *Client/Contact: City of Port St. Lucie/Patricia Roebling, PE, Phone: (772) 871-5174. (3/05 to 12/07)*

Coral Creek Bridge Replacement, Charlotte County, FL: Coordinated with NMFS and SHPO and processed permits with SWFWMD, USACE, and USCG for the realignment of the Coral Creek Bridge. The environmentally sensitive project area included mangroves, seagrasses, a public park, historical structures and an Indian mound. *Client: Charlotte County.*

Tri-Rail Double Tracking, Miami-Dade, Broward, and Palm Beach Counties, FL: Program Manager for the design team with emphasis on the environmental and permitting tasks including the coordination of field activities, bridge and stormwater permit processing and final construction certifications with Lake Worth Drainage District, SFWMD, FDEP, USACE, USCG, FFWCC and Palm Beach, Broward and Miami-Dade Counties.

Fort Lauderdale–Hollywood International Airport, Broward County, FL: Served as permitting lead to acquire permits for the Westside development and mitigation projects; performed compliance monitoring for construction activities at the Birch State Park mitigation project; and assisted staff on permitting issues related to the Runway Extension Project. . *Client/Contact: BCAD/Michael Pacitto, P.G., Phone: (954) 359-6103. (6/04 to 3/10)*

Professional Certifications

Qualified Stormwater Management Inspector & Instructor – NPDES

Palm Beach County Stormwater Management Inspector – NPDES

Professional Trainings

Project Engineer's School – 1999
FHWA Contract Administration
Water Quality Impact Evaluation
Certified Public Manager Courses
Strategic Planning Training

Awards

1984 District Engineer's Managerial Award

1988 FPL Outstanding Quality Performance Award

Awards for resolving permit related issues, Hurricane Andrew aftermath

Mark Tomczyk, P.E.

Academic Background

M.S., Environmental Engineering, Pennsylvania State University, 2001

B.S., Civil Engineering, Pennsylvania State University, 1990

Professional Registration

Registered Professional Engineer, FL #63171, PA #048718E, AL #29062-E, MS #18259, GA #033059

Professional Affiliations

American Society of Civil Engineers

National Society of Professional Engineers

Florida Society of Professional Engineers

Florida Engineering Society

Society of American Military Engineers

Mr. Tomczyk has more than 20 years of general civil engineering experience, with a specialty in Land Development, stormwater management, floodplain modeling, permitting and private development engineering and construction administration. He has extensive experience with the design/implementation of grant funded public and quasi-public entities in the generation of technical specification and grant management. Additionally, Mr. Tomczyk has been utilized as an expert witness for courtroom testimony for land use and stormwater management/floodplain management issues. Mr. Tomczyk has also provided engineering and support services for federal, public and private clients for residential, industrial, and institutional development. Key services include structural, land development site plan/engineering preparation, development feasibility study, subdivision design, roadway design, stormwater management , floodplain and riparian engineering, grading (earthworks), drainage and erosion control, road design, traffic improvements , environmental design and restoration, construction specification, commissioning, and procurement of all local, county, state and other governmental approvals.

Mr. Tomczyk also has extensive Military related project experience. Mr. Tomczyk has provided Civil/Utility Engineering design for Design-Build, Design-Bid-Build and Enhance Use Lease project with the US Army Corps of Engineers, and the Naval Construction Battalion Center. Projects for NAVFAC include:

- Design/Build P-790 Bachelor Enlisted Quarters, Naval Construction Battalion Center, Naval Facilities Engineering Command, Gulf Port, MS
- Consolidated Aircraft Maintenance Facility, NAVFAC Southeast, Keesler AFB
- Design/Build P-737 Fitness Center, Naval Construction Battalion Center, Naval Facilities Engineering Command, Gulf Port, MS
- Design/Build P-790 Bachelor Enlisted Quarters, Naval Construction Battalion Center, Naval Facilities Engineering Command, Gulf Port, MS
- Pensacola NAS – Saufley Field – Enhance Use Lease, Pensacola, FL

Relevant Experience

Monroe County EAR, Comprehensive Plan Update and Land Development Code Re-Write, Monroe County, FL: Monroe County has contracted with Keith and Schnars to update their Comprehensive Plan Policy and Technical Documents to the 2010-2030 planning timeframe; the last update occurred in 1995. Keith and Schnars is also providing services to prepare the EAR for the County. Monroe County's current regulations were drafted in 1985 and have been appended numerous times over the years. The goal of this project is to realign the LDR sections to make it more user friendly, incorporate modern planning strategies, and implement the Goals, Objectives and Policies of the Comprehensive Plan.

MC 130 Simulator Facility, U.S. Army Corps of Engineers - Mobile District, Hurlburt Field, FL: Civil Engineer for the new MC-130 Simulator Facility. The site is bounded on the north by Building A, on the east and south by existing parking, and on the west by an existing service drive. Grassed areas of the site are developed with concrete walkways that will be removed to allow the facility to be constructed. Adjacent asphalt paved parking areas will also be removed to establish required AT/FP setback distances from existing parking installations to remain. Main drivers in siting the new facility were proximity and functional relationships to existing Building A, AT/FP setbacks for roadways and parking, existing service drive and parking lot locations, and Transitional Surface clearances from adjacent runway to the new facility. All of these factors contributed to the net buildable area available on the site. The site design included civil and structural services, surveying and environmental permitting. Construction Cost $7M

SOF Squadron Operations Annex Facility, US Air Force (contract through US Army Corps of Engineers, Mobile District), Hurlburt Field, FL: Civil Engineer for this new building that will be an annex to the existing 4th SOS Squadron Operations Facility (Building 90472) located on Bennett Avenue. The building will be located west of the existing facility in the area of the existing west parking lot. The primary pedestrian entrance will continue to be on the south side of the existing facility. The site design included civil and structural services, surveying and environmental permitting. Construction Cost $1.8M

Tim Hall, P.E.

With over 24 years of experience, Mr. Hall has been involved in numerous diverse Land Development and Civil Engineering projects. His experience providing construction management for a Builder/Developer, permit review and program management for a large municipality, and Design/Consulting services for both Private and Public sector clients, provides broad insight into the variety of issues related to project development.

Having participated in the design and implementation of everything from small in-fill development to large neighborhood improvement projects, Mr. Hall has been exposed to a wide range of private land development and public infrastructure projects. His experience spans from modeling and master planning to preparation of construction documents, permitting, and construction administration, for numerous water distribution, sewer collection, storm water management, and land development projects.

Academic Background

B.S., Civil Engineering, University of Maryland, 1987

Professional Registration

Registered Professional Engineer, FL #50588

Professional Affiliations

Florida Engineering Society

Relevant Experience

Private Sector: Mr. Hall has provided design services for dozens of private development projects throughout Florida; including residential, commercial, and institutional. The diversity in project locations has provided exposure to the unique multi-jurisdictional requirements throughout South Florida. His project management skills and ability to prioritize client needs and concerns while complying with jurisdictional requirements have been enhanced through his years of experience and the variety of projects completed.

Public Sector: Projects include modeling and design of water, wastewater, and storm water collection systems at both a master planning and project specific level. Mr. Hall's has a firm awareness of State and Jurisdictional requirements and methodology/means for compliance. His past civic experience and role as client manager for several general services contracts, provides an understanding of what's needed to work as an extension of Municipal Staff.

City of Fort Lauderdale, General Engineering Services Contract: Project Coordinator and point of contact for engineering, landscape, survey, and architectural services provided to the City through open- ended contract. In addition to management of multiple projects, responsible for overseeing design, commitment to schedule and meeting budgets for multi-facetted improvement projects. Projects include programs to provide water and wastewater improvements to existing neighborhoods served by septic systems and without adequate fire protection. Areas served include a mixture of single family, multi-family, commercial, office and industrial uses. In addition to utilities, improvements included streetscape, landscape, drainage, roadway re-alignment and traffic calming.

Septic Area 18, Fort Lauderdale, FL: Analyze capacity and impacts to existing infrastructure and lift stations resulting from full build-out of a 130-acre partially developed parcel. Services included modeling, analysis, and recommendations for proposed improvements. Using atlas and as-built information, developed a baseline model reflecting existing conditions. Once calibrating, the model was modified to reflect expanded service areas. Upon evaluation, a complete report of findings was prepared outlining design criteria, assumptions, baseline data, exhibits, and calculations with recommended alternatives. *(2006)*

Edgewood Drainage Analysis, Fort Lauderdale, FL: Project lead on drainage analysis of existing 600-acre neighborhood with the purpose of quantify and identifying cause for frequent and substantial flooding. Orchestrated project modeling, proposed alternatives, and provided cost estimates with defined level of service. Presentation findings to homeowners and City officials.

City of Fort Lauderdale – WW2011 Program, Fort Lauderdale, FL: Project Lead for design services related to City's Capital Improvements Program which included approximately $636 million in utilities infrastructure repair, replacement, and upgrades. The program includes analysis, modeling and design for improvements to water and wastewater facilities in meeting a comprehensive plan in response to expanded demand and service areas. *(2003 to 2010)*

Frank Vilar, P.E.

Mr. Vilar has over 14 years of extensive professional experience in the design of water/wastewater systems, design of drainage and storm water management systems, site design and development, preparation of contract documents and specifications for bid and permitting services experience through numerous South Florida agencies. His experience includes design of water and wastewater improvements for the City of Fort Lauderdale, rehabilitation of lift stations in City of Coconut Creek and North Lauderdale, and neighborhood improvements for the Westgate CRA. Professional experience also includes work on various land development projects for Seminole Tribe of Florida, Coscan Homes and also administering the NPDES Program for the City of Miami.

Academic Background

M.S., Environmental Engineering, Florida International University, Miami, FL, 1995

B.S., Civil Engineering, Florida International University, Miami, FL, 1992

A.A., Miami-Dade College, 1988

Professional Registrations

Registered Professional Engineer, FL #55459

Relevant Experience

Water and Wastewater Improvement Project for Lauderdale West, Sunset North, River Run, Flamingo Park, Oak River, Shady Banks and Edgewood Communities, Broward County, FL: Project Manager for the design of water and wastewater improvements for the City of Fort Lauderdale Water Works 2011 Program. The service areas for these projects are comprised of a mixture of single family, multi-family, commercial, office and industrial uses. The design phase includes over 188,000 linear feet of gravity sewer, 20,300 linear feet of force mains, 16 new wastewater pump stations, and 43,000 linear feet of water mains. The total construction value was estimated to be 30 million dollars.

Westgate CRA North Infrastructure Improvements Phases IV, V, and VI, West Palm Beach, FL: The proposed improvements included design and permitting services for the construction of the last three phases of a six phase 140-acre site for the Westgate Community Redevelopment Agency and located in West Palm Beach. The improvements involved paving, grading and drainage, water main and sanitary sewer improvements within this existing subdivision comprised of mainly residential and commercial properties. Responsibilities included the design of water, sewer, drainage, roadway, and pavement marking and signage. Permitting, bidding and negotiating and cost estimating services were also provided.

Arden Park, Hollywood, FL: Redevelopment of a former 33-acre mobile home park into a 153 unit residential development in Hollywood. The design and permitting was done in three phases: 1. demolition phase involved removal of the mobile homes and existing utilities within the site, and capping the existing utilities at the right of way. 2. Lake Improvements Phase involved the partial filling of two existing lakes and sizing/designing the two proposed lakes that would ultimately serve as the sites storm water management system. 3. Residential Development phase was the master design of the potable water, sanitary sewer, paving, grading and drainage, pavement marking & signage and roadway design for the proposed 153 unit development.

First Seminole Indian Baptist Church Additional Parking: The project scope for the 25 acre site development included parking lot improvements/expansions, and water mains for fire protection. In addition, the storm water management system was expanded and consisted of swales and exfiltration trench to provide pre-treatment, water quality and flood control for the improved site prior to discharging through a control structure into the existing FDOT Turnpike Canal adjacent to the site. Drainage Calculations were performed to meet SFWMD, CBWD criteria and also FDOT. An FDOT Critical Storm Duration Analysis was performed on 32 storm events in order to obtain the Drainage Connection Permit from FDOT. Responsibilities included design of the site plan, water mains for fire protection, paving, grading, and drainage, pavement marking & signage and permitting.

City of Deerfield Beach Public Works Facility, Broward County, FL: Master design of potable water, sanitary sewer, paving, grading, drainage, traffic and roadway design. Work also included permitting and bidding and negotiating services for the development of this 20-acre former landfill site in Deerfield Beach, FL. Responsibilities also included managing the sub-consultant designing the liner system and the methane gas collection system for the facility and coordinating with the architect.

Chris Miller, RLA, LEED AP

Mr. Miller is a highly qualified landscape and irrigation designer with a keen interest in the Green Industry. His 16 years of experience includes site analysis, concept generation, project planning, computer-aided drafting, and final implementation for commercial developments, parks, municipal centers, streetscapes and FDOT roadway beautification projects. He is known for his innovative design solutions and immaculate attention to design details, construction specifications, plan reviews and construction inspection. Mr. Miller has mastered the complex requirements of project integration and offers a thorough understanding of the South Florida landscape and its critical water conservation principles, strengths complimented by his skill in photography and presentations. Mr. Miller currently holds 11 Green Industry Certifications in addition to his Landscape Architecture license.

Academic Background

B.L.A. studies, Landscape Architecture, University of Florida, 1993 to 1997

Vicenza, Italy Institute of Architecture (EuropeanStudy program), University of Florida, 1997

Professional Registration

Registered Landscape Architect, FL #6666970

Professional Certifications

ISA Certified Arborist
LEED Accredited Professional
GREEN Advantage Environmental Certification
FNGLA Certified Horticultural Professional
FNGLA Certified Landscape Contractor
FIS Certified Irrigation Site Manager
IA Certified Irrigation Contractor
IA Certified Irrigation Designer
IA Certified Golf Irrigation Auditor
IA Certified Landscape Irrigation Auditor
LIAF Certified Landscape Inspector
ICPI Certified

Professional Affiliations

American Horticultural Society
American Society of Landscape Architects
Florida Irrigation Society
Florida Native Plant Society
Florida Nursery Growers and Landscape Association
Florida Urban Forestry Council
International Society of Arboriculture
International Palm Society
Landscape Inspectors Association of Florida
The Irrigation Association

Relevant Experience

Sunset Lakes Municipal Complex, Miramar, FL: Programming, Master Planning, Site Planning, Planting Plan, Irrigation Design, Permitting, Construction Drawings, Specifications for a 26-acre park/ municipal complex design build project.

Town of Lantana Municipal Beach Complex, Lantana, FL: Park master planning; programming, survey, design, citizens and park user's survey, public meetings; opinion of implementation cost, concepts, preliminary and final master plan.

Miramar Town Center, Miramar, FL: Keith and Schnars provided landscape architecture services for this urban mixed-use development. The Miramar Town Center was designed as an idyllic traditional downtown with pedestrian oriented streets, beautiful Mediterranean style architecture, "main street" store fronts and waterfront views characteristic of historic towns of Florida. Site amenities included a plaza, fountain, site furniture, decorative pavers, planters, tree grates, and landscape lighting.

Marathon City Hall and Events Field, Marathon, FL: Keith and Schnars is providing professional services associated with assisting in the development of a design-build package for Marathon City Hall and Events Field. These services include: design criteria performance specifications, geotechnical testing and assistance with the design/build selection process.

Rolling Oaks and Bunche Parks Improvement Program, Miami Gardens, FL: Master planning and grant assistance for City of Miami Gardens parks, including a nature trail, recreation center, maintenance buildings, pavilions, press boxes, a concession/restroom facility, soccer/football fields, tennis courts, a par course, volleyball courts, an aquatic play structure, lighting, signage, parking, and playgrounds.

Mitchell Moore Park Improvements, Broward County, FL: Site design through construction for a 2-phase renovation including a par course, play structure, two ball fields with dugouts, scorer's platforms, site furniture, a football field, bleachers, court resurfacing, an irrigation system, and drainage improvements for this City of Pompano Beach park.

James Anderson, RLA

Mr. Anderson has a wealth of experience in a variety of design disciplines and diverse project types. With experience within the fields of landscape architecture, architecture, interior design, graphic design and exhibit and display design; he has worked on projects for corporate headquarters, convention centers, hospitals, office buildings, hotels, universities, prison facilities, a cable television broadcast facility and a zoo. His contributions to these projects have included conceptual design and design development, code research, site planning, landscape planting design, materials and color selection, computer assisted drafting and presentation graphics. In addition, Mr. Anderson is proficient in the use of a variety of computer-assisted drafting and graphics software programs.

Academic Background

B.L.A., Iowa State University, 1987

Professional Registration

Registered Landscape Architect, FL #6666916

Professional Affiliations

American Society of Landscape Architects

Relevant Experience

Town of Lantana Municipal Beach Complex, Lantana, FL: Park master planning; programming, survey, design, citizens and park user's survey, public meetings; opinion of implementation cost, concepts, preliminary and final master plan.

Miramar Town Center, Miramar, FL: Mixed-use pedestrian oriented design of public spaces including Town Hall, Performing Arts center, Civil Plaza and streetscapes.

NE 33rd Avenue Neighborhood Improvement, Fort Lauderdale, FL: Neighborhood district streetscape and traffic calming project - decorative paver intersections, landscape at key intersections, a new pedestrian walkway, decorative street signage, entrance signage and irrigation design.

Lyons Road Master Plan Streetscape Improvements, Coconut Creek, FL: Master planning a 7-mile Streetscape improvement including hardscape treatments, site amenities and planting and irrigation design.

Heron Bay Commercial, Coral Springs, FL: Landscape Plan and Site Amenities for a 42-acre mixed-use development encompassing a 19-acre residential zone and a 23-acre office and retail zone.

NE 15th and 18th Avenue Neighborhood Improvement, Fort Lauderdale, FL: Landscape and traffic calming projects to bring back the neighborhood feel to a busy corridor. Task included reconfiguring roadways to implement traffic calming, increasing green space, public involvement. Improvements included adding medians, a roundabout, lane reductions, bike lanes, a pedestrian crossing, landscaping and irrigation.

Rolling Oaks and Bunche Parks Improvement Program, Miami-Dade County, FL: Master planning and grant assistance for City of Miami Gardens parks, including a nature trail, recreation center, maintenance buildings, pavilions, press boxes, a concession/restroom facility, soccer/football fields, tennis courts, a par course, volleyball courts, an aquatic play structure, lighting, signage, parking, and playgrounds.

Brighton Fitness Trail, Brighton, FL: Site Master Plan including outdoor exercise equipment, lighting, signage, park furniture, pavilions, and wetland plantings for the City of Brighton.

CRA Improvements, Lemon Avenue, Sebring, FL: Hardscape, planting and irrigation design for a community downtown streetscape and roadway improvements on five CRA-designated areas as part of the City's master planning and beautification program for the Washington Heights Community.

Washington Heights CRA Master Plan, Sebring, FL: The master plan was developed through community surveys, a public facilitation program, a 2-day public design charrette, historical research, and graphic renderings to accompany the final document. Issues of land use, parking, road closures, noise and visual screening, recreational needs, transportation needs, public gathering spaces, preservation of historic buildings, and community identification were addressed the master planning and is now these results are in the implementation stages.

El Rio Multi-use Trail, Boca Raton, FL: Design of a green area in the middle of the urban fabric that integrates the user with natural features. Landscaping, irrigation and amenity design for 1.5 miles of a multi-use trail.

Marisol Ortega

Academic Background
Business Management, Florida International University, 1989 to 1994

Professional Certifications
Arborist Certification, Class A

AutoCAD - Level 1 Certification, Sheridan Technical College

Florida Association of Code Enforcement - Level 1 Certification, Florida Atlantic University, 2004

Landscape Inspectors Association of Florida Certification, University of Florida IFAS, 2005

National Incident Management Systems IS-100, IS-200, IS-700 Certifications, Emergency Management Institute, 2006

Professional Affiliations
American Society of Landscape Architecture

International Society of Arborists

Landscape Inspectors Association of Florida - 2006 Board of Directors Chair

Florida Association of Code Enforcement

Federal Emergency Management Agency

Department of Environmental Resource Management

Ms. Ortega lends more than 15 years of experience as a designer, project manager and specialized inspector to the Landscape Archtitecture Division. Her background spans all aspects of the Green Industry, from pre-construction site survey and analysis, overall project design, construction management, to post development inspection and reporting for residential, commercial and municipal projects. She has worked with numerous community and city officials as well as developers to provide project landscape design and contract mangement as well as oversee the installation and maintenance of city monuments, parks, roadways, commercial centers and housing developments. She has also provided post storm hazard assesment, environmental mitigation inspection and reporting, and community tree workshops. Today, she thoroughly evaluates project sites, provides landscape and irrigation design, and effectively coordinates with clients, firms, officials and providers throughout the production process to project consrtuction.

Relevant Experience

Miramar Town Center, Miramar, FL: Keith and Schnars provided landscape architecture services for this urban mixed-use development. The Miramar Town Center was designed as an idyllic traditional downtown with pedestrian oriented streets, beautiful Mediterranean style architecture, "main street" store fronts and waterfront views characteristic of historic towns of Florida. Site amenities included a plaza, fountain, site furniture, decorative pavers, planters, tree grates, and landscape lighting.

Rolling Oaks Park, Miami Gardens, FL: Overall project site and landscape design, implementation, and management for City of Miami Gardens. The park includes a nature trail, pavilions, concession/restroom facility, soccer/football fields, lighting, entry signage, playgrounds and parking all designed to preserve 1000 plus existing specimen size Live Oaks and Slash Pines at this 35-acre park.

Bunche Park, Miami Gardens, FL: Project design and implementation for the renovation of this 50 year old aquatic facility to include restoration of existing pool and new children's splash play area, picnic areas and new entry plaza planting and hardscape design.

Osceola Park Traffic Improvements, Delray Beach, FL: Traffic circulation improvements with a focus on traffic-calming. Street tree, entry landscape and irrigation design.

CRA Improvements Project, Sebring, FL: Contributions to the hardscape, planting, and irrigation design for streetscape and roadway improvements made to five CRA-designated areas in Sebring.

I-195, Miami Beach, FL: Design of entry features into the city. Performed the initial field survey, and developed the landscape design. Followed the project, coordinating with the municipality and contractors to completion.

Sombrero Beach, Marathon, FL: Redevelopment of beach to include new park area and facilities. Provided project site and landscape design construction management. Project including sensitive sea turtle nest site restoration and planting.

Cheryl Callender

Ms. Callender is a trilingual designer with over 13 years of professional experience. A licensed architect in Panama, her distinguished career includes designing and managing high profile projects on behalf of numerous private sector clients. Ms. Callender brings her experience and expertise to Keith and Schnars in various aspects of the design process as well as plan implementation. Since joining Keith and Schnars, her considerable talents have been used on high-profile transportation projects.

Her design software capabilities include: Autocad, Microstation, MS Project, Sketchup, Adobe Photoshop, Adobe Illustrator, and Adobe In-Design.

Academic Background

M.L.A., Landscape Architecture, Florida A&M, 2006

Thesis: "Residential Development Adjacent to Natural Protected Areas in Panama"

B.S., Architecture, University of Panama, 1997

Thesis: "Plan and Design for the Ecotourism Development of the Interoceanic Park of the Americas"

Relevant Experience

Districtwide Landscape Design Services, Miami-Dade and Monroe Counties, FL: General Landscape architectural services, including: Landscape and Irrigation plan sets, plan reviews, inspections, project coordination. Presentation graphic materials including: photo simulation renderings, plant boards, plan and cross section renderings. Client: FDOT District 6.

SR-826/Palmetto Expressway from SW 16th Street to SW 2nd Street, Miami-Dade County, FL: Development of Landscape plans to improve the aesthetic character of 0.78 miles of the SR-826 corridor while highlighting the intersection with SW 8th Street.

LeJeune Road, Miami-Dade County, FL: Development of landscape, irrigation and landscape lighting plans, as well as construction observation for two miles of major roadway adjacent to Miami International Airport main entrance. Client: FDOT District 6.

Miami Intermodal Center (MIC) Rental Car Center (RCC), Miami-Dade County, FL: Lead designer in development of the landscape, irrigation and landscape lighting plans, as well as construction observation of the RCC building and grounds, which will serve as a dynamic gateway for South Florida's visitors through the Miami International Airport. Client: FDOT District 6.

I-95 Sections 4 & 9, Miami-Dade County, FL: Highway beautification projects for the I-95 corridor through Miami-Dade County, including landscape design to improve the aesthetic character of the corridor, reduce maintenance and mitigate concrete structures. Client: FDOT District 6.

Florida Turnpike Authority Toll Ramps, FL: Landscape improvements for 8 toll ramps in South Florida.

Jason Mihalovits, LEED AP

Mr. Mihalovits brings his experience with multiple aspects of the design process to our projects at Keith and Schnars. These aspects include concept generation, site inventory, site and master planning, landscape and irrigation design, code compliance issues, project specifications, construction observation and computer-aided drafting and design. Mr. Mihalovits has held a leadership role in a range of project types including planning and design for transporation, commercial, residential and municipal projects. Mr. Mihalovits pioneered the electronic delivery of landscape plans for the firm and continues to maintain a proactive approach to evolving technology and software in the design field.

Academic Background

B.L.A., Landscape Architecture, University of Florida, 2004

A.A, University of Florida, 2001

Professional Certifications

LEED Green Associate

Professional Affiliations

American Society of Landscape Architects

US Green Building Council

Relevant Experience

Lyons Road, Coconut Creek, FL: 1.7 miles, Roadway beautification, landscape and irrigation design.

Andrews Avenue, Pompano Beach, FL: A one-mile roadway project including permitting, hardscape layout, maintenance agreements, planting and irrigation design.

Seabreeze Boulevard, Fort Lauderdale, FL: The design consisted of a new pedestrian-friendly roadway/ sidewalk design along Seabreeze Blvd. Tasks included hardscape, planting and irrigation plans.

Heron Bay Commercial, Coral Springs, FL: Landscape Plan and Site Amenities for a 42 acre mixed-use development encompassing a 19 acre residential zone and a 23 acre office and retail zone.

Districtwide Landscape Design Services, Miami-Dade and Monroe Counties, FL: Designer responsible for consulting services including construction plans, specifications and details for landscape, hardscape, and irrigation plans; site analysis, tree relocations, plan reviews, cost estimates, construction inspection , project coordination and management. *Client/Contact: FDOT District 6/Paul Moss, RLA, Phone: (305) 470-5560. (2001 to Present)*

Miramar Town Center, Miramar, FL: Mixed-use pedestrian oriented design of public spaces, including town hall, performing arts center, civic plaza and streetscapes for the City of Miramar.

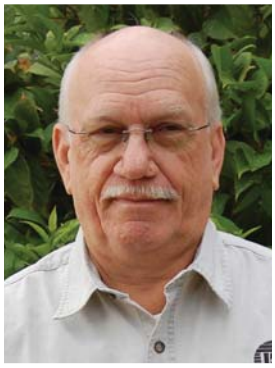
El Rio Multi-use Trail, Boca Raton, FL: Design of a green area in the middle of the urban fabric that integrates the user with natural features. Landscaping, irrigation and amenity design for 1.5 miles of a multi-use trail.

NE 33rd Avenue Neighborhood Improvement, Fort Lauderdale, FL: Neighborhood streetscape and traffic calming project - decorative paver intersections, landscaping at key intersections, a new pedestrian walkway, decorative street signage, entrance signage and irrigation.

One Stop Shop, Fort Lauderdale, FL: Tree preservation, landscaping and irrigation.

Heron Bay Commercial, Coral Springs, FL: Landscape Plan and Site Amenities for a 42 acre mixed-use development encompassing a 19 acre residential zone and a 23 acre office and retail zone.

Rolling Oaks and Bunche Parks Improvement Program, Miami Gardens, FL: Master planning and grant assistance for City of Miami Gardens parks, including a nature trail, recreation center, maintenance buildings, pavilions, press boxes, a concession/restroom facility, soccer/football fields, tennis courts, a par course, volleyball courts, an aquatic play structure, lighting, signage, parking, and playgrounds.



James Hahn

Mr. Hahn is an engineering professional specializing in civil engineering and permitting. His experience in the Construction of Municipal and Governmental Structures offers a broad-based combination of Land Development and Civil Engineering. Mr. Hahn has more than 15-years experience in the design and Construction Administration/Management of water, sanitary sewer, paving, grading and drainage systems for Consultant Engineering firms. Prior to his accomplishments in Engineering, Mr. Hahn was employed as a Land Development professional with an additional 18-years experience employed by Home Builders and Developers specializing in the construction of residential, multi-family, commercial and municipal developments. He traveled throughout the State of Florida to evaluate the most efficient and cost effective sites for development. Prepared site evaluation, cost analysis and budgeting reports. Successfully managed site preparation and development, planning and engineering services with consultant engineering and architectural firms.

Professional Qualifications

Qualified: Stormwater Management Inspector, Florida Department of Environmental Protection (FDEP) and Broward County Department of Planning and Environmental Protection (BCDPEP)

Certified as a CSX Tri-Rail On-Track Safety Inspector.

Relevant Experience

City of Fort Lauderdale Engineering Department, Broward County, FL: Supervised daily inspection of Site Development Improvements for several City Municipal projects while employed by Keith and Schnars. Projects include; One Stop Shop, Sunset Memorial Gardens and Central Parking Garage, Phases 1 and 2 repairs.

Waterworks 2011 Program, Fort Lauderdale, FL: Mr. Hahn has worked with the Program Management Team since its initial phase construction of Miami Road a neighborhood Redevelopment project in Southeast Fort Lauderdale. *Client/Contact: City of Fort Lauderdale/Paul Bohlander, P.E., Phone: (954) 828-5000 (2003)*

Miami Road Redevelopment, Fort Lauderdale, FL: The initial phase of the Waterworks 2011 Neighborhood Improvement Project for the City of Fort Lauderdale Public Works Department. Project consisted of the conversion of 300-residential units from septic tanks to gravity sewers, water main construction, testing and certification and the general restoration of the neighborhood. Reported to the Program Management Team while supervising the projects Resident Project Representative (RPR). Responsibilities include Office Management Administration. Project had a 400-day construction timeframe and was constructed in 180-days. *(2002)*

Westgate CRA, Phases 1 and 2, West Palm Beach, FL: Funded by the State of Florida and the Westgate Community Redevelopment Agency (CRA), this 6-Phase project consists of Surface Water Management, Water Distribution and Fire Protection, Sanitary Sewer and Roads. Responsibilities include working very closely with the CRA and Palm Beach County Construction Coordination to administer the construction of sanitary sewer and water distribution systems, supervising the inspection aspects as well as assurance that the contractor complies with the construction documents. *Client/Contact: Westgate Belvedere Hones CRA/Elizee Michel, Phone: (561) 233-3626. (Ongoing)*

Tri-Rail Redevelopment, Broward and Palm Beach Counties, FL: Renovation of Tri-Rail Stations in Broward and Palm Beach Counties. Responsible for the coordination and office management of the Civil Engineering infrastructure improvements located within the Tri-Rail impact corridor. Successfully completed the "On-Site, Tri-Rail Safety Program". Duties included implementation of the construction documents, inspection of sanitary sewer, potable water and surface storm water management systems.

Loggers' Run PUD, Palm Beach County, FL: 1840-acre development west of Boca Raton. Assisted in the zoning, site planning and coordinated civil engineering of a multi-use residential community.

Villages of Oriole PUD, Palm Beach County FL: 850-acre residential and golf course community west of Delray Beach, Florida. Coordinated civil engineering, expedited permitting, subcontractor bids and budgeting. Instrumental in completion of projects, final inspection and bond releases.

Jorge Blanco

Mr. Blanco is a qualified Project Administrator with over 31 years of experieince. He has performed duties as a Project Administrator since 1987 FDOT Districts 6, 2, 5 and currently in District 4. He has over 29 years of Construction, Engineering and Inspection experience in roadway and bridge building. As a Project Administrator, Mr. Blanco and his field inspection team received The Pat Bolton "Excellence in Paving" Award in 1996 and The FTBA/FDOT "Alternative Contracting" Award in 1999 and "Best Bridge" Award in 2007. The following is a summary of completed projects during his term.

Key Projects

- Jensen Beach Causeway, Martin County, FL (Major Bridge)
- I-95 Resurfacing, Brevard County, FL
- Golden Glades Interchange, Miami-Dade County, FL

Relevant Experience

Project Administrator, Keith and Schnars (3/93 to Present)

Work Groups: 10.1, 10.3 & 10.4 (14 years)
Work Groups: 10.5.1 (2 years)
Work Groups: 10.6 (2 ½ years)

Wiles Road Extension and Bridge, Broward County, FL: Project Administrator - Construction of bridge number 864112 over Florida's Turnpike to complete the corridor between SR-845/Powerline Road and Lyons Road. This project includes full depth roadway approaches, substructure with bulb-tee beam and stay-in place metal deck superstructure, MSE retaining walls, lighting and signalization improvements, drainage and utility improvements for the City of Deerfield Beach and Broward County. (2/08 to 2010)

Various projects including Seminole Tribe of Florida, Port St. Lucie and Fort Lauderdale, FL: Project Administrator - Documentation of bi-annual roadway assessments for the Seminole Tribe. City of Port St Lucie utility coordination and construction inspections. Private development quality assurance inspections for Broward and Martin Counties. (7/05 to 2/08)

Jensen Beach Causeway, SR-732 over Indian River, (Work Groups 10.1, 10.3, 10.4 & 10.5.1), Martin County, FL: Project Administrator - This project consisted of bridge replacement and bridge widening of approximately 151,000 square feet, new lighting, French drain system, MSE Wall construction, also included the construction of new full depth road bed construction. Responsible for ensuring complete inspection per contract documents, material compliance, assignment of inspection staff and interpretation of contract plans. This project received the FTBA "Best Bridge" Award in 2007. FDOT Client/ Contact: FDOT District 4/ Mayur Patel, FDOT Project Manger, Phone: (772) 489-7138. (6/03 to 7/05)

Bascule Bridge Rehabilitation of Christa McCaulaugh Bridge (State 3 over the Barge Canal), (Work Groups 10.1, 10.3, 10.4 & 10.6), Brevard County, FL: Project Administrator - This project included the replacement of all hydraulic system to state-of-the-arts electrical and electronic systems. Also included the replacement of decking, railing and counter weights. Responsible for ensuring complete inspection staff and contract document interpretation. Client/Contact: FDOT District 5/Jim Boughanem, FDOT Project Manager, Phone: (321) 634-6560. (9/00 to 6/03)

Academic Background

A.A., Degree, Civil Engineering, Florida Community College, 1982

Professional Certifications

Work Zone Traffic Control (Advanced)

CPM Scheduling for Project Engineers

Concrete, Bridge and Foundation Inspection

Contract Administration/ Claims Analysis

Earthwork, Density Record System

Traffic Signals & Highway Lighting Consultant Series

Signing and Pavement Marking Consultant Series

CTQP Asphalt Paving - Level I and II

Asphalt Inspection Consultant Series

CTQP Earthwork - Level I & II

American Concrete Institute - Level I

Earthwork Inspection Consultant Series

Advanced Multi-Line Earthwork

Utilities Inspection Consultant Series

Engineering Menu

Robert K. Krisak, P.L.S.

Academic Background
A.A.S., Forestry, Paul Smith's College, 1977

Professional Registration
Registered Professional Surveyor and Mapper, FL #4641

Professional Affiliations
Florida Society of Professional Surveyors and Mappers

Broward County Chapter of F.S.M.S.

International Who's Who of Professionals

American Congress on Surveying and Mapping

Mr. Krisak has more than 31 years of experience in all phases of land and engineering surveying including topographic, boundary, hydrographic, As-Built, construction layout and location surveys for highways, residential developments commercial projects and expert witness testimony. This experience has been gained through a variety of surveying-related positions, including instrument person, drafter, party chief, and field crew coordination. He is familiar with a wide range of state-of-the-art surveying equipment. He is also experienced in project management, field survey supervision, office survey procedures, and staffpower scheduling. He serves the critical role of Quality Assurance Program Manager for the Survey Department to ensure the high quality of our survey staff and deliverables.

Relevant Experience

Districtwide Surveying and Mapping Services: Mr. Krisak served as Quality Assurance Program Manager to ensure the high quality of our survey staff and deliverables for this continuing services miscellaneous contract in which we provide the district design surveys, parcel and right of way stake outs, digital terrain models (DTM), geodetic control, control surveys, right-of-way mapping, right of way (monumentation) surveys, maintenance mapping and parcel sketches. This was a 5-year contract, effective from October 2000 to 2005.

Fort Lauderdale Miscellaneous Survey Contract, Fort Lauderdale, FL: Mr. Krisak serves as Project Manager, supervising Engineering Design Surveys, Boundary Surveys for Key Projects such as Sistrunk Boulevard, NW 19th Street, Miami Road, Sunset Memorial Gardens, Septic Area #2, #3, #4, #5, #8 and #16, Facility Security Sites, Fort Lauderdale Country Club, Shady Banks, Starlight Landing, Fire Station #13, Sunrise Key and Sunrise Intracoastal Subdivision, NE 56th Street, South Andrews Avenue of the City's Water Works 2011 Program.

Tri-Rail/CSX Double Tracking Project, Palm Beach, Broward, and Miami-Dade Counties, FL: Mr. Krisak served as Project Manager for this project which involved supplying over 40 miles of control, design and as-built surveys along the CSX corridor. The surveys were completed to current FDOT standards.

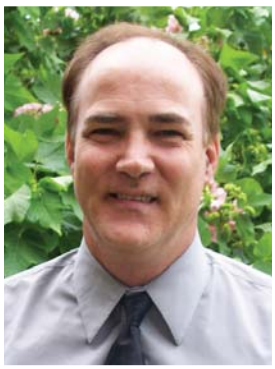
CSX Railroad, Miami-Dade, Broward, and Palm Beach Counties, FL: Geodetic survey and right-of-way mapping for the CSX Railroad from Miami-Dade County to Palm Beach County.

Miami Mover, Miami-Dade County, FL: Mr. Krisak serves as Project Manager supervising verification of horizontal and vertical control for this project. Also, as-builts of newly constructed columns, pier caps, joints and plinths from intermodal center to terminal of Miami International Airport.

Miami-Dade Miscellaneous Master Survey Contract: Mr. Krisak served as Project Manager on various projects for Miami-Dade County, including Homestead Air Reserve Base Park Platting, Miami International Airport MIA Projects, Hialeah MetroRail, Intersection Design Survey, Kendall Library Improvements and Firestation 64.

North New River Canal, Broward County, FL: Geodetic survey and right-of-way mapping for the North New River Canal.

Florida's Turnpike, Broward County, FL: Boundary and location surveys for the widening of this major roadway.



Stephen Burgess, P.S.M.

Since 1984, Mr. Burgess has participated in a wide variety of surveying and mapping projects, experience that includes 10 years as a project manager and 4 years as a Director of Surveying. His project experience includes establishing Right-of-Way boundary lines; establishing property lines; laying out building control lines, pilings, and steel columns; establishing benchmark networks; coordinating with aerial photogrammetry; and as-builting construction. His construction layout experience includes site earthwork, utilities, onsite improvements, and infrastructure layout.

Academic Background

B.A., Philosophy, King's College, 1984

B.A., Communications, King's College, 1984

Professional Training

AutoCADD Civil 3D course

Boundary Law and Principles

Condominium Conversions

Soverignty Land Surveys

Adverse Possession

Minimium Technical Standards

Platting Land Boundaries

GIS in Applications

Integrating Surveying Data

USGS Control Surveying

College Level Math Tutor

Professional Registrations

Registered Professional Surveyor and Mapper, FL #LS6408

Professional Affiliations
Lee-Collier Chapter of F.S.M.S.

Port Charlotte Chapter of F.S.M.S.

Broward Chapter of F.S.M.S.

Relevant Experience

Collier County Gordon River Water Quality Park, Collier County, FL: Served as Survey Project Manager in charge of project construction of a multi-million dollar park with lakes, walkways into the preserve, shelters, maintenance facility, and park complex. Working with multiple contractors to construct and as-built the lakes, utilities and facilities.

Coconut Road Right-of-Way Improvements, Lee County, FL: Worked as Survey Project Manager coordinating the project from start to finish. Responsibilities included, locating the improvements for the Project Engineer. Prepared the Right-of-Way Turnover documents for the Lee County Attorneys office. Orchestrated the layout of the roadway improvements, and conducted the as-builts of the road and utilities for the final acceptance.

Vanderbilt Beach Road Improvements: Worked in the field coordinating the location of the roadway improvements for the highway engineer. Established the Benchmark network, which was used throughout the project. Used Electronic Field Book Handheld computers to collect the data for the Department of Transportation.

Goodlette Road Overpass at Pelican Marsh: Worked in the field coordinating the layout of the bridge and abutments for the contractor. Conducted the as-built of the bridge and utilities along the roadway for the contractor.

Bonita Springs Utilities Water Main (West Terry Street to Strike Lane): Served as the Survey Project Manager for the piecing together of the Right-of-Way and the plats for a 10 mile waterline project. Located the improvements for the Design Engineer, then laid out the waterline for construction, afterwards providing the as-built Information to the Engineer.

City of Bonita Springs Affordable Housing Subdivision: Worked with City Officials as the Survey Project Manager, preparing a platted subdivision for the Cities affordable housing project. Project went from initial boundary survey to final home construction.

Bonita Springs City Hall: Worked as the Survey Project Manager for the boundary and improvements for the City Hall Building.

GIS Mapping Project, Bonita Springs, FL: Provided support as Project Manager to outline a strategic plan to map the utility facilities within the cities jurisdiction. Oversee the field location of the utility facilities, and prepare a report of the data to incorporate into the cities GIS network. Client: City of Bonita Springs

Collier County Sidewalk Improvements, Collier County, FL: Served as the Survey Project Manager for the piecing together of the Right-of-Way and plat information to locate improvements for 10 sites throughout Collier County for the Design Engineer.

Ben Hoyle, P.S.M.

Mr. Hoyle is a Survey Crew Supervisor with over 10 years experience throughout the state of Florida and has been with Keith and Schnars for 3 years. He is a graduate from the University of Central Florida Engineering Technology Program. His experience includes ACSM/ALTA surveys, boundary, construction layout, topographic surveys and As-built surveys. Mr. Hoyle has experience in today's newest software including AutoCAD, TDS collection, Topcon and Trimble GPS.

Academic Background

B.S., Land Surveying and Mapping, University of Florida, 1997

Professional Registration

B.S., Engineering Technology, University of Central Florida, 2008

Professional Certifications

CSX Safety Facilitator

OSHA 30

First Aid

Monitoring of Traffic Safety

Fall Protection Training

Relevant Experience

Miami Mover, Miami-Dade County, FL: Supervised field crews in collecting data for as-built of piers, plinths and control for rail system at Miami International Airport. Client/Contact: Miami-Dade County/Tony Hernandez, P.E., Phone: (305) 869-1563. (2010)

Homestead Air Reserve Park, Homestead, FL: Supervised field crews in collecting data for 216-acre park for Miami-Dade County. (2009 to 2010)

Turkey Point Power Plant, Homestead, FL: Supervised field crews for the layout and as-built of monitoring wells throughout the power plant for Florida Power and Lighting. Contact: Stacy Foster, Project Manager, Phone: (561) 691-7065. (2010)

SR-A1A, FPID #419858-1-32-01, Miami-Dade County, FL: Supervised field crews for design survey on Collins Avenue from North 75th Street to Harding Avenue in Surfside, Florida. Including cross sections, topography and DTM. Client/Contact: FDOT District 6/Adriana Manzanares, P.E., Project Manager, Phone: (305) 470-5283. (3/08 to 6/09)

SR-25/US-27, FPID #425211-1-52-01, Miami-Dade County, FL: Supervised field crews for a 5-mile DTM of SR-25 and side streets from Homestead Extension of Florida Turnpike to Broward County Line. Client/Contact: FDOT District 6/Scott Perking, P.S.M., Project Manager, Phone: (305) 470-5194. (2010)

Southwest 10th Street, FPID #424665-1-32-01, Deerfield Beach, FL: RRR design survey including a DTM and tree survey. Client/Contact: FDOT District 4/William Arata, P.S.M., Project Manager, Phone: (954) 777-4586. (2009)

Griffin Road and I-75, FPID #415154-1-32-01, Broward County, FL: Keith and Schnars was a sub-consultant for a design. Supervised field crews for a DTM and topographic survey of roadway and drainage. Client/Contact: FDOT District 6/Julio Delgado, P.E., Project Manager. (2009)

Linton Boulevard and I-95, FPID #420919-1-32-01, Delray Beach, FL: Supervised field data collection for DTM, topography and soundings for proposed sound wall Client/Contact: FDOT District 4/William Arata, P.S.M., Project Manager, Phone: (954) 777-4586. (2009 to 2010)

Pines Boulevard/SR-820, FPID #250686-1-32-16, Broward County, FL: Supervised field data collection for RRR Survey. Client/FDOT District 6. (2009)

American Tower, Verizon, AT&T, Nextel, Sprint, O.P.M., Data Link, FL: Provided boundary and Topographic surveys on existing and proposed tower sites on over 150 government sites.

Celebration, Orlando, FL: Served as Crew Chief, duties included calculating and layout of residential construction. Tasks included lot and house layout, foundations and final As-built.

Avalon Park, Orlando, FL: Served as Crew Chief, duties included calculating and layout of residential construction. Tasks included lot and house layout, foundations and final As-built.

Debbie Love, AICP, CFM

Academic Background

B.A., Business Administration, Daytona Beach University

Business Administration: Applied Management Specialty, Kaplan School of Business

Professional Certifications

Certified Member of the American Institute of Certified Planners, AICP #022684

National Charrette Institute

Certified Watershed Manager, 2003

Florida Green Home Standard Certifying Agent, Florida Green Building Coalition, Inc., 2006

Professional Affiliations

American Planning Association, FL

Treasure Coast Chapter of APA

FEMA Task Force, 2000 –Current

State of Florida Hazard Mitigation Advisory Team 2003-Current

Florida Floodplain Managers Association, Founding Member and Region IV Director, 2000 to 2006

Ms. Love has over 19 years experience in urban, comprehensive and land planning, including the preparation of neighborhood and redevelopment plans; land development regulations and comprehensive plans and amendments; community visioning and workshop facilitation; capital improvement programming; affordable housing; environmental impacts; floodplain management and mitigation; and grant writing.

Relevant Experience

Comprehensive Plan Update, Evaluation and Appraisal Report (EAR), and LDR Re-Write for Monroe County, FL: Monroe County has contracted with Keith and Schnars to update their Comprehensive Plan Policy and Technical Documents to the 2011-2031 planning timeframe; the last update occurred in 1995. Additionally Keith and Schnars will prepare the EAR for the County. The final phase of this project is to realign the LDR sections to make it more user friendly, incorporate modern planning strategies, and implement the Goals, Objectives and Policies of the Comprehensive Plan. Ms. Love serves as Project Manager. *Client/Contact: Monroe County BOCC/Christine Hurley, Phone: (305) 289-2517. (12/09 to Present)*

Washington Heights Neighborhood and Urban Design Plan, Sebring CRA, Sebring, FL: Washington Heights is one of the first communities established in the City and one of the first African-American communities in Highlands County. Ms. Love served as Project Manager and Principal Planner for the development of a neighborhood development/redevelopment plan intended to preserve and celebrate the rich, cultural heritage of the community and encourage economic growth. Additionally, she managed the charrette and visioning exercise that identified the future desired type and style of development and redevelopment in the neighborhood; and served as the Plan's primary author. *Client/Contact: City of Sebring CRA/Pete Pollard, Phone: (861) 471-5104). (5/08 to 4/09).*

EAR-based Comprehensive Plan and LDR Amendments, Indian Rocks Beach, FL: Keith and Schnars crafted comprehensive plan amendments based upon the City's recently adopted Evaluation and Appraisal Report. The amendments included those to revitalize their commercial district and corridor; encourage mixed use and attainable housing development; preserve coastal and natural resources; reduce green house gas emissions; update the level of service requirements; and assure the City becomes more walkable and pedestrian friendly. The LDR amendments were drafted to implement the goals, objective and policies of the comprehensive plan, and include provisions to allow golf cart travel along both State, County and municipally owned streets; preserve and expand the tree canopy; and, address wetland buffering, dock and seawall requirements. Ms. Love served as Project Manager and primary author. *Client/Contact: City of Indian Rocks Beach/Danny Taylor, Phone: (727) 595-2517. (10/07 to Present)*

Master Plan and LDR Re-Write, Marathon, FL: This newly incorporated city of 10,000 in the Florida Keys, sought to discover the redevelopment level and approach desired by the residents and stakeholders. The also desired to create a new set of regulations that were specifically designed to implement the Comprehensive Plan and the concepts illustrated in the Master Plan. The new LDRs also included mixed use design guidelines, a revised permit allocation system, marina siting regulations and conservation management plan provisions. Ms. Love served as Project Manager and authored major portions of the Master Plan and was the Primary Author of the LDRs. *Client: City of Marathon. (1/03 to 2/07)*

Dawn Sonneborn, AICP

Ms. Sonneborn has 20 years of planning experience with a variety of public and private sector projects. Areas of expertise include regulatory planning, long-range planning, visioning and redevelopment, comprehensive planning, downtown master planning, Developments of Regional Impacts (DRIs), Transit Oriented Design (TOD), rezonings, due diligence studies, land use and zoning analysis for eminent domain projects, and public involvement/coordination. Ms. Sonneborn's duties include business development and management, project management, preparation and presentation of projects throughout the regulatory processes, and project coordination with public and private clients.

Academic Background

Academic Background Broward College, 1978 to 1979

Fort. Lauderdale Leadership Class IX Graduate, June 2003

Professional Certifications

Certified Member of the American Institute of Certified Planners, AICP #014139

Crime Prevention Through Environmental Design (CPTED)

Professional Associations

American Planning Association (APA National)

Florida American Planning Association (APA Florida)

First Coast APA (Local Section), Board of Directors

Speaking Engagements

2007 and 2008 Lorman Education Services - Zoning and Land Development Law, Jacksonville, FL

May 2008 - Baldwin County Leadership Program, Alabama Comprehensive Planning

September 2008 - Florida American Planning Association Annual Conference - Implementing Private Sector Funded Transit Mitigation, Miami, FL

Relevant Experience

Comprehensive Planning – Public Sector

Comprehensive Plan Update, Evaluation and Appraisal Report (EAR), and LDC Re-Write for Monroe County, FL: Monroe County has contracted with Keith and Schnars to update their Comprehensive Plan Policy and Technical Documents to the 2011-2031 planning timeframe; the last update occurred in 1995. Additionally K&S will prepare the EAR for the County. The final phase of this project is to realign the LDC sections to make it more user friendly, incorporate modern planning strategies, and implement the Goals, Objectives and Policies of the Comprehensive Plan. As Director of Planning, Ms. Sonneborn oversees the project. *Client/Contact: Monroe County BOCC/Christine Hurley, Phone: (305) 289-2517. (12/09 to Present)*

Comprehensive Plan Creation, Baldwin County, AL: This was the creation of a Comprehensive Plan for the largest geographical County in Alabama, with a wide range of characteristics from the southern Gulf Coast area to the northern more rural areas. Their Director of Planning had previously worked in Florida and knew the importance of a Florida-based Comprehensive Plan. The County sought the services of a Florida firm to bring their experience in comprehensive planning to Baldwin County. Ms. Sonneborn served as the Project Manager. Services included preparation of all elements of the "Horizon 2025" Comprehensive Plan (Vol. I), along with the Data, Inventory and Analysis (Vol. II), facilitation of public workshops to define the key community issues, and creation of a new Future Land Use Map.

Comprehensive Plan Update, Bainbridge, GA: Project management services included facilitation at public meetings to define key community issues; update of Comprehensive Plan Goals and Policies; preparation of the transmittal package to the Southwest Georgia Regional Development Center and the Georgia Department of Community Affairs, and coordination with agencies for final adoption.

Comprehensive Plan Update, Jackson County, FL: Project planner for the Evaluation, Appraisal and Report (EAR) process for Jackson County, Florida.

Districtwide Miscellaneous Planning Contract, FDOT District 5: Provide review and analysis reports for comprehensive plan amendments, Evaluation, Appraisal & Report's (EAR's), and EAR based amendments for the FDOT District 5 area local governments.

State of Florida

Board of Professional Engineers

Keith & Schnars, P A

Is authorized under the provisions of Section 471.023, Florida Statutes, to offer engineering services to the public through a Professional Engineer duly licensed under Chapter 471, Florida Statutes.

Certificate of Authorization

EXPIRATION: 2/28/2013
AUDIT NO: 228201303048

CA. LIC. NO: 1337

AC# 4556806

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF LANDSCAPE ARCHITECTURE

SEQ# L09090102304

DATE	BATCH NUMBER	LICENSE NBR
09/01/2009	090114407	LCC000137

The LANDSCAPE ARCHITECT BUSINESS
Named below HAS REGISTERED
Under the provisions of Chapter 481 FS.
Expiration date: NOV 30, 2011

KEITH AND SCHNARS, PA
6500 N ANDREWS AVE
FT LAUDERDALE FL 33309-2132

CHARLIE CRIST
GOVERNOR

DISPLAY AS REQUIRED BY LAW

CHARLES W. DRAGO
SECRETARY

Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkway Tallahassee, Florida 32399-6500

License No.: LB1337
Expiration Date: February 28, 2013

Professional Surveyor and Mapper Business License
Under the provisions of Chapter 472, Florida Statutes

KEITH & SCHNARS P A
6500 N ANDREWS AVE
FT LAUDERDALE, FL 33309-2132

ADAM H. PUTNAM
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.

AC# 5323835

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL GEOLOGISTS

SEQ# L10110200930

DATE	BATCH NUMBER	LICENSE NBR
11/02/2010	000000000	GB99

The GEOLOGY BUSINESS
Named below IS CERTIFIED
Under the provisions of Chapter 492 FS.
Expiration date: JUL 31, 2012

KEITH & SCHNARS P.A.
6500 N ANDREWS AVE
FT LAUDERDALE FL 33309

CHARLIE CRIST
GOVERNOR

DISPLAY AS REQUIRED BY LAW

CHARLIE LIEM
SECRETARY

BERNARD ZYSCOVICH, FAIA

PRINCIPAL-IN-CHARGE

RELEVANT EXPERIENCE

New Orleans Neighborhood Recovery Plan, *LA*

Little Haiti Cultural Center, *Miami, FL*

Miami Beach Convention Center District Redevelopment Plan, *FL*

Updated City Center/ Convention Center District Plan, *Miami Beach, FL*

Downtown West Palm Beach Master Plan, *West Palm Beach, FL*

South Cape Vision Plan, *Cape Coral, FL*

Erie Basin Waterfront Urban Design Vision, *Buffalo, NY*

Midtown Miami Master Plan & Architectural Design Standards, *FL*

Downtown Miami Master Plan, *Miami, FL*

Downtown Cocoa Beach Vision Plan & Design Standards, *FL*

Town of Atlantic Beach Vision and Master Plan, *SC*

Jose Marti Park, *Miami, FL*

Charles Hadley Park, *Miami, FL*

Gibson Park Miami, *Miami, FL*

Moore Park Miami, *Miami, FL*

EDUCATION

Bachelor of Architecture/Pratt Institute/1971
Special Study in Urban Design/Universita' Di Architettura/Venice, Italy/1969

REGISTRATION

Florida/#7410 | NCARB Certification #26130

EXPERIENCE

Bernard Zyscovich is the founder of Zyscovich Architects and serves as its Managing Principal. With over 34 years experience, he has led creative teams on a wide range of projects from urban planning of major U.S. cities to the architectural design of hi-rise residential, mixed-use, retail, and commercial buildings. As the visionary on many high-profile projects, Mr. Zyscovich draws upon his extensive work with multiple stakeholders and broad-based public input. Based on his engaging leadership, he created five distinct recovery plans through significant community interaction for New Orleans neighborhoods which has served as the basis for Federal Funding for post-Katrina redevelopment efforts.

In two of his most successful redevelopment projects, Mr. Zyscovich created a vision and master plan to transform two surface parking lots into a world class park and symphony expansion in Miami Beach, as well as a master plan to develop surplus property owned by the FEC Railroad into Midtown Miami--a thriving mixed-use development. Other projects include the City of Miami Little Haiti Cultural Center, the Little Haiti Soccer Park, and the Jose Marti Park and Gymnasium, Gibson Park and Moore Park.

Mr. Zyscovich served on the Miami Beach Design Review Board, and is past chair of the Miami Design Preservation League, the organization responsible for preserving the largest Art Deco District in the world. His book, **Getting *Real* About Urbanism**, was commissioned by the Urban Land Institute and published in October of 2008.

SPEAKING ENGAGEMENTS

- ULI YLG Author Series: A Conversation with Bernard Zyscovich about Real Urbanism, New York, NY
- Meeting of the Minds, A Sustainable Cities Leadership Summit: Planning and Keeping Personality in Place, New York, NY
- Universita Frederico Segundo, Theories of Design and Urbanism, Naples, Italy
- Urban Land Institute, Urban Parking Facility Design, Dallas, TX

Miami Beach Convention Center District Redevelopment Plan, Miami Beach, FL

Erie Basin Urban Design, Buffalo, NY

SURIA YAFFAR, ASSOC. AIA, LEED® AP
DIRECTOR OF DESIGN

RELEVANT EXPERIENCE

New Orleans Neighborhood Recovery Plan, *LA*

Little Haiti Cultural Center, *Miami, FL*

Downtown Cocoa Beach Vision Plan & Design Standards, *FL*

Midtown Miami Master Plan & Architectural Design Standards, *FL*

Updated City Center/ Convention Center District CRA Plan, *Miami Beach, FL*

Hollywood Commercial Corridors Zoning and Urban Design Plan, *FL*

Downtown West Palm Beach Master Plan , *FL*

Downtown West Palm Beach Urban Regulations, *FL*

Jose Marti Park, *Miami, FL*

Charles Hadley Park, *Miami, FL*

Gibson Park Miami, *Miami, FL*

Moore Park Miami, *Miami, FL*

EDUCATION

Master of Architecture/Princeton University/1990
Bachelor of Architecture/University of Miami/1987

EXPERIENCE

Suria Yaffar is a firm principal and the Director of Design at Zyscovich Architects. Ms. Yaffar has worked on a variety of planning, urban design and architectural projects for public and private clients throughout the United States in her fifteen years with the firm. She is experienced in all phases of the planning process including community outreach, consensus building, strategic vision planning and urban design for downtowns, transit-oriented design and all phases of land development. She has a comprehensive understanding of the physical implications of the options and choices made during the vision and conceptual phases of the planning process. This has become an integral element of the team's approach, generating plans that can be implemented by the private development community.

Her portfolio includes the City of Jacksonville Vision Plan and Future Land Use Plan, Jacksonville, FL, and the City of New Orleans Neighborhood Concept Plan, New Orleans, LA, as well as Coconut Creek's Sustainable MainStreet Vision and Master Plan. The New Orleans plans were based on a focused public dialogue and consensus process that enhanced neighborhood pride while transcending perceived differences to achieve shared opportunities. These plans are the basis of Federal Funding and elements are being implemented. Ms. Yaffar is also leading the concept and site planning team for the Airport City at Miami International Airport, a complex public-private investment partnership rooted in multi-modal transportation to better link the airport with the surrouding city.

Ms. Yaffar has served on regional ULI Advisory boards and conducted university lectures on master planning and architecture. Many of her recent speaking engagements are about "Capacity Driven Codes vs. Form Based Codes", a detailed breakdown of the advantages of Capacity-Driven Codes and the approach of Real Urbansim®. Her work has been published in the ACSA Journal. The South Florida Chapter of the American Institute of Architects named her "Urban Designer of the Year" for 2008.

New Orleans Neighborhood Recovery Plan, New Orleans, LA

Updated City Center/Convention Center District CRA Plan, Miami Beach, FL

MELISSA HEGE, AICP, LEED® AP
SENIOR PLANNER

RELEVANT EXPERIENCE

Downtown Cocoa Beach Vision Plan & Design Standards, *FL*

City of Jacksonville Vision Plan and Future Land Use Plan, *FL*

Town of Atlantic Beach Vision and Master Plan, *SC*

Downtown West Palm Beach Master Plan , *FL*

Downtown West Palm Beach Urban Regulations, *FL*

Downtown Hollywood CRA Master Plan, *FL*

Hollywood Beach CRA Vision, Master Plan & Zoning, *FL*

Hollywood Commercial Corridors Zoning and Urban Design Plan, *FL*

Midtown Miami Master Plan & Architectural Design Standards, *FL*

Broward County Downtown Campus Master Plan, *Fort Lauderdale, FL*

EDUCATION

Master of City Planning/University of Pennsylvania/1998

Bachelor of Arts/European Cultural Studies/Brandeis University/1995

REGISTRATION

American Institute of Certified Planners/#016841 | LEED® Accredited Professional

EXPERIENCE

Melissa Hege is a Senior Planner responsible for a number of Zyscovich's planning, redevelopment, and urban design projects. As a certified planner, Ms. Hege leads complex planning projects for municipal clients and specializes in building strong client relationships, writing clear and compelling planning reports and land development regulations. She has valuable experience translating a vision into urban design guidelines that are in turn carried through to zoning text. This full translation is critical to implementation, carrying the vision beyond just representation to become regulation so that concepts and important articulation are not lost in the process.

Ms. Hege is currently managing a Vision Plan and Design Based Code for Downtown Cocoa Beach. Recently, Ms. Hege managed the Master Plan Update for downtown West Palm Beach, FL including new zoning regulations and development standards in coordination with the City's Comprehensive Plan Amendment which earned the FL American Planning Association's Award of Excellence. In another series of projects in Hollywood, FL, she developed visions for the Beach and Downtown and created redevelopment plans for commercial corridors.

As immediate past Chair of the Gold Coast Section of the Florida American Planning Association she has a particular interest in regional planning issues and sustainable development patterns and initiated a half day symposium on future growth patterns entitled "How Shall We Grow?" She also served on the Transportation Aesthetics Review Committee (TARC), a sub-committee of the Miami-Dade County Metropolitan Planning Organization (MPO) from 2003 to 2006.

Downtown West Palm Beach Master Plan & Urban Regulations, West Palm Beach, FL

Downtown Cocoa Beach Vision Plan and Design Standards, Cocoa Beach, FL

TRENTON BAUGHN, AICP, LEED® AP
SENIOR URBAN DESIGNER

RELEVANT EXPERIENCE

South Cape Vision Plan, *Cape Coral, FL*

City of Jacksonville Vision Plan and Future Land Use Plan, *FL*

Grace in the City Master Plan, *Raleigh, NC*

Coconut Creek MainStreet Vision, Master Plan, Zoning & LEED® Based Design Standards, *FL*

Downtown Hollywood CRA Master Plan, *FL*

Downtown West Palm Beach Urban Regulations, *FL*

Town of Atlantic Beach Vision Plan, *SC*

Midtown Miami Master Plan & Architectural Design Standards, *Miami, FL*

Downtown Miami Master Plan, *FL*

Omni CRA Master Plan, *Miami, FL*

EDUCATION

Master of Architecture/University of Florida/1996
Bachelor of Science in Architectural Engineering Technology/University of Southern Mississippi/1992

REGISTRATION

American Institute of Certified Planners/#019084 | LEED Accredited Professional

EXPERIENCE

As a Senior Urban Designer, Mr. Baughn has worked on a variety of urban design, planning and design for the public sector. He specializes in Sustainable Design, Urban Design for Complex Communities, Redevelopment Planning, Downtown Visioning and Transportation Planning.

Many of his projects include zoning analysis, code development and writing and design guidelines, often involving close coordination with economists. He is presently managing a Vision Plan for the City of Cape Coral and most recently served as Project Manager for the Vision and Land Use Plan for the City of Jacksonville. Mr. Baughn also authored the first sustainable design code in Florida for the City of Coocnut Creek which earned the Florida Chapter of the American Planning Association's Award of Excellence.

Mr. Baughn recently received the Urban Designer of the Year Award from the Miami Chapter of the American Institute of Architects in 2010. He is a member of the Transportation Aesthetics Review Committee (TARC), a sub-committee of the Miami-Dade County Metropolitan Planning Organization (MPO).

South Cape Vision Plan, Cape Coral, FL

City of Jacksonville Vision Plan and Future Land Use Plan, FL

THORN GRAFTON, AIA, LEED® AP BC+D
DIRECTOR OF SUSTAINABLE INITIATIVES

RELEVANT EXPERIENCE

Consulting on LEED & Environmental Design, Various Projects

US Marine Corps Camp Lejeune Fitness Center - LEED Platinum

Florida Atlantic University A.D. Henderson University School Addition

Heritage Elementary LEED for Existing Buildings Study

Plumosa School of the Arts Middle School Conversion Analysis

Pine Jog Elementary and FAU Environmental Education Center

Manatee Elementary Classroom Addition

Toussaint L'Ouverture Elementary School

Stranahan High School Phased Replacement

Pine Crest Lower School & Administration Building

North Glade Park and Leisure Lakes Park Studies, Miami Dade County, FL

EDUCATION

Bachelor of Architecture/Tulane University/1976
Master of Architecture/Tulane University/2004

REGISTRATION

Florida Architect/ #8200 | LEED® Accredited Professional

EXPERIENCE

Mr. Grafton is a registered architect and LEED® AP. He is a founding member of the US Green Building Council South Florida Chapter. Mr. Grafton has over 31 years of experience as a design professional and in-depth, specialized training in sustainable and LEED design principles including: the Harvard Graduate School of Design, Sustainable Design, a Biomimicry Conference at the Rock Mountain Institute, Green Trends Sustainable Design at Southface Institute, and several USGBC Green Build Conferences. As the Director of Sustainable Initiative for Zyscovich, Mr. Grafton coordinated sustainable design for the first LEED Gold Certified public school in the State of Florida (Pine Jog Elementary School in West Palm Beach) as well as several other projects which have received LEED Certification. He is currently guiding the sustainable design aspects of several firm projects including the LEED Platinum Fitness Center at Camp Lejeune, NC for NAVFAC.

Mr. Grafton leads a Zyscovich team that performs Daylighting, Shading, and Building Enverlope Analysis using Ecotect / Radiance software, which helps incorporate energy conservation strategies into the design process through accurate modeling.

FAU Environmental Education Center, West Palm Beach, FL

FAU Environmental Education Center, West Palm Beach, FL

State of Florida
Department of State

I certify from the records of this office that ZYSCOVICH, INC. is a corporation organized under the laws of the State of Florida, filed on October 30, 1986.

The document number of this corporation is M40936.

I further certify that said corporation has paid all fees due this office through December 31, 2011, that its most recent annual report was filed on January 4, 2011, and its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

Given under my hand and the Great Seal of Florida, at Tallahassee, the Capital, this the First day of April, 2011

Secretary of State

Authentication ID: **400200184184-040111-M40936**

To authenticate this certificate,visit the following site, enter this ID, and then follow the instructions displayed.
https://efile.sunbiz.org/certauthver.html

The U. S. Green Building Council

hereby presents to

Zyscovich, Inc.

Miami, FL

Certificate of Membership

As a balanced, consensus coalition representing the entire building industry, we promote the design, construction, and operation of buildings that are environmentally responsible, profitable, and healthy places to live and work.

Member since 2004

James Hartfield, Chairman — Christine Ervin, President & CEO

AC# 5421643

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF ARCHITECTURE & INTERIOR DESIGN
SEQ# L11012001512

DATE	BATCH NUMBER	LICENSE NBR
01/20/2011	100307531	AAC001431

The ARCHITECT CORPORATION
Named below IS CERTIFIED
Under the provisions of Chapter 481 FS.
Expiration date: FEB 28, 2013

ZYSCOVICH, INC
100 BISCAYNE BLVD FL 27
MIAMI FL 331322306

RICK SCOTT
GOVERNOR

CHARLIE LIEM
SECRETARY

DISPLAY AS REQUIRED BY LAW

AC# 5421604

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF ARCHITECTURE & INTERIOR DESIGN
SEQ# L11012001473

DATE	BATCH NUMBER	LICENSE NBR
01/20/2011	100307533	AR0007410

The ARCHITECT
Named below IS LICENSED
Under the provisions of Chapter 481 FS.
Expiration date: FEB 28, 2013

ZYSCOVICH, BERNARD
ZYSCOVICH, INC.
100 N BISCAYNE BLVD 27TH FLOOR
MIAMI FL 33132

RICK SCOTT
GOVERNOR

CHARLIE LIEM
SECRETARY

DISPLAY AS REQUIRED BY LAW

The American Institute of Certified Planners

The Professional Institute of the American Planning Association

hereby qualifies

Melissa Hege

as a member
with all the benefits
of a Certified Planner and
responsibility to the
AICP Code of Ethics
and Professional Conduct.

Certified Planner Number: 016841

July 1, 2001

PRESIDENT — EXECUTIVE DIRECTOR

AC# 5491119

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF ARCHITECTURE & INTERIOR DESIGN
SEQ# L11030400843

DATE	BATCH NUMBER	LICENSE NBR
03/04/2011	108202179	AR0008200

The ARCHITECT
Named below IS LICENSED
Under the provisions of Chapter 481 FS.
Expiration date: FEB 28, 2013

GRAFTON, R THORN
2814 CHUCUNANTAH RD.
MIAMI FL 33133

RICK SCOTT
GOVERNOR

CHARLIE LIEM
SECRETARY

DISPLAY AS REQUIRED BY LAW

APA

AMERICAN PLANNING ASSOCIATION

Tenton Chase Baughn
MEMBER

December 31, 2002
DATE

EXECUTIVE DIRECTOR

ANGELA BRYAN, P.E., LEED AP
Water and Wastewater Engineering

M.B.A., University of North Florida, 2003
B.S., Environmental Engineering, University of Florida, 1995
Professional Engineer, Florida, No. 56730

Ms. Bryan has substantial experience with marina utility work including the determination of water demand and sewer loadings for marinas which can vary significantly depending on the number and size of vessels served and the nature of traffic whether transient, commercial or residential; conceptual layout of potable water and fire distribution systems and vacuum sewer systems and pump-outs; preparation of construction drawings and specifications; assistance with permitting; and construction administration. She has worked in conjunction with the ATM Marina division and provided water, fire, and sewer system design for multiple marina projects both in the United States and the Bahamas.

RELEVANT EXPERIENCE

St. Kitts Christophe Harbour Marina Utilities, St. Kitts – Project Engineer overseeing and assisting with design of the potable water distribution system and the in-slip and remote permanent sewage pump out systems for service of the proposed 300-slip marina. Design of the systems includes estimates of the projected water demands and sewer generation and usage rates, preparation of a hydraulic model in EPANet for the water system, and evaluation of the upland water and sewer system needs at the connection points and coordination with the upland civil engineer. The first phase of the project will result in conceptual design and Engineer's Opinion of Probable Construction Cost. After approval of conceptual design, project will proceed with construction level specifications and drawings.

Scrub Island Marina Utilities, British Virgin Islands – Project Manager overseeing the design and construction document development of a water distribution and sewer pump-out system for a marina. Project included the preparation of construction drawings and specifications, coordination with upland civil engineers regarding the connection point and needs for the water distribution system and sewage pump-out, development of water and sewer demands based on slip size and yacht usage, development of a hydraulic model for the water distribution system in WaterGEMs, and coordination with manufacturers of various pump-out units.

Rodney Bay Marina Utilities, St. Lucia, West Indies – Project Engineer overseeing and assisting with design of the potable water distribution system and the remote permanent and portable sewage pump out systems for service of the 230-slip marina. Design of the systems included estimates of the projected water demands and sewer generation and usage rates, preparation of a hydraulic model in WaterGEMs for the water system, and evaluation of the upland water and sewer system needs at the connection points, and evaluation of the upland water system capabilities to provide the flow and pressure required for the marina. The project resulted in preparation of water and sewer system construction drawings and specifications.

Rose Island Marina Utilities, Rose Island, Bahamas – Project Engineer overseeing and assisting with design of the potable water distribution system and the in-slip and remote sewage pump out and remote bilge pump out systems to serve the 300-slip marina. Design of the systems included estimates of the projected water demands and sewer generation and usage rates, preparation of a hydraulic model in EPANet for the water system, and coordination with the upland civil engineers for the water and sewer system connection. Project resulted in preparation of water and sewer system construction drawings and specifications.

Rodney Bay Marina Utilities, St. Lucia, West Indies – Project Engineer overseeing and assisting with design of the potable water distribution system and the remote permanent and portable sewage pump out systems for service of the 230-slip marina. Design of the systems included estimates of the projected water demands and sewer generation and usage rates, preparation of a hydraulic model in WaterGEMs for the water system, and evaluation of the upland water and sewer system needs at the connection points, and evaluation of the upland water system capabilities to provide the flow and pressure required for the marina. The project resulted in preparation of water and sewer system construction drawings and specifications.

Pangkor Laut Utility Design, The World Development, Dubai, UAE – Project Manager for utility systems design including water, fire, reuse, and sewer systems and marina utilities for the Pangkor Laut development which is comprised of five islands. Project includes master plan validation, concept approval package for Nakheel, Trakhees CED submittal and final construction design documents.

Madagascar Master Plan Validation for Infrastructure Systems, Madagascar, The World Development, Dubai, UAE – Project engineer overseeing conceptual design and layout of infrastructure systems in support of Concept Approval permit from Nakheel for Finland Island. Coordinated with architect, land planner, and ATM marina and coastal engineers to ensure feasibility of infrastructure systems with all aspects of island design. City of LaBelle Reverse

Osmosis Water Treatment Facility – Project Engineer assisting with the design of a new 1.5 million gallon per day Reverse Osmosis Water Treatment water treatment facility. The project consists of dual membrane treatment systems, degassifier, chemical feed systems, transfer pumps, high service pumps, finished water storage, concentrate storage and concentrate injection pumps. This project is currently under design.

Rose Island Marina Utilities, Rose Island, Bahamas – Project Engineer overseeing and assisting with design of the potable water distribution system and the in-slip and remote sewage pump out and remote bilge pump out systems to serve the 300-slip marina. Design of the systems included estimates of the projected water demands and sewer generation and usage rates, preparation of a hydraulic model in EPANet for the water system, and coordination with the upland civil engineers for the water and sewer system connection. Project resulted in preparation of water and sewer system construction drawings and specifications.

Major Pump Station Rehabilitation, JEA, Jacksonville, FL – Design engineer for preparation and layout of construction drawings, specifications, bid forms, and necessary calculations for eight major pump stations in Jacksonville. Majority of pump stations are in excess of 25 MGD. Rehabilitation included removal and replacement of mechanical bar screens, pump valves and fittings, and pump motors, installation of new flushing and seal water systems; installation of new potable water systems and new ventilation systems; and construction of new air conditioned electrical rooms. Construction administration and necessary environmental permitting was provided for all stations.

Huron Street Pump Station, JEA, Jacksonville, FL – Design engineer responsible for preparation of design calculations, construction drawings and specifications for the demolition of an existing wastewater pump station and the construction of a new 11 MGD quadruple submersible wastewater pump station. Also prepared permit applications and performed shop drawing review.

South Jacksonville Beach Stormwater Improvements, Jacksonville Beach, FL – Design engineer for preparation of preliminary design report including evaluation of four alternative stormwater system layouts and pump station locations for a residential neighborhood.

JOHN C. DUCHOCK, P.E.
Coastal Engineer

B.S., Ocean Engineering, Florida Institute of Technology, 1995
Professional Engineer, Florida No. 60457, Virginia No. 0402 036 494, Maryland No. 0402036449

Mr. Duchock has 15 years of experience and serves as design engineer, project manager, and point of contact for clients ranging from various Florida counties and municipalities to the federal government. He has participated in pre-construction bidding and construction management for various coastal and marina projects and maintains close coordination with in-house personnel, clients and subcontracted firms. Mr. Duchock has lead field data gathering efforts related to marina layout, navigation channel design, dredging, and permitting of various marine projects in the State of Florida and elsewhere. Related work includes evaluation of placement alternatives and assessment and design of both overboard and upland sites for dredged material placement. Other responsibilities have included design and production of plans and specifications for coastal structures such as piers, docks, bulkheads, revetments, jetties, weirs, etc. His work has incorporated the use of innovative materials such as geocomposite fabrics and vinyls as alternatives to materials commonly used in marine construction.

RELEVANT EXPERIENCE

Long Key State Park, Long Key, FL – Project engineer responsible for evaluating engineering design concepts and environmental impact assessments for State Park in the Florida Keys. Worked directly with State Park staff to develop concepts and provide solutions that would avoid seagrass impacts while enhancing the existing shoreline and providing protection against erosion from storm events.

Red Reef Park, City of Boca Raton, FL – Project Manager responsible for evaluating the life expectancies and rehabilitation/replacement options for a series of timber dune boardwalk structures. Coordinated field permit for rehabilitation work with Florida DEP representative. Completed engineering design and construction documents for design, incorporating the use of composite wood materials for decking and structural handrail system. Represented Owner during pre-bid meeting.

South Beach Park, City of Boca Raton, FL - Project Manager for ongoing dune crossover rehabilitation project at South Beach Park. Working directly with City staff to rehabilitate three crossover structures incorporating changes such as the use of on-grade brick paver and shell hash paths in order to minimize maintenance and extend the life of the existing crossovers. Work included direct coordination with DEP field representatives to secure a field permit for construction. Developed detailed design and Construction Documents for bidding. Scheduled to provide bidding support services in early 2011.

Royal Island, Bahamas – Project engineer responsible for design of marina embarkation facility, including site rehabilitation and improvements, wave attenuation structures, docks/piers, electrical requirements, and a public boat ramp.

Spanish River Park, City of Boca Raton, FL - Project Manager for development of a dune vegetation management plan for the beach dune and access points at Spanish River Park. Work completed to date focuses on securing a permit for a project seaward of the Coastal Construction Control Line (CCCL Permit) through DEP and includes an ecological baseline survey, development of a dune vegetation management plan, submission of a CCCL Permit application package, and coordination with City and DEP/FWC staff. Detailed planting plans,a maintenance, and monitoring plan have also been developed.

Shoreline Protection and Enhancement, Twin Rivers Park, Martin County Parks & Recreation Depart. Martin County, FL – Project Manager for the protection and enhancement of more than 1,000 ft of shoreline at the junction of the St. Lucie River and the Intracoastal Waterway. Shoreline protection design alternatives, included combinations of bulkheads, stone sills, revetments, boardwalks, and native wetland plantings.

Holbox Marina and Coastal Studies, Mexico – Project Manager for large-scale master planned multi-resort development encompassing over 4,000 hectares of property on an island just off the northern tip of the Yucatan Peninsula. Services rendered included site assessment and feasibility studies for marina and coastal engineering (shoreline and flooding) issues, as well as marina market evaluations, master planning efforts for a 500 slip +/- marina facility, layout and support studies for new port facilities designed to provide construction and operations support for the entire development, and waterborne transportation analyses.

SaltAire Development, Mobile, AL – Project engineer and manager for feasibility studies of new marina development associated with a master-planned community on Mobile Bay. Feasibility works included site assessment, marina engineering feasibility studies, marina market evaluation, and marina master planning efforts. Additionally, order-of-magnitude construction cost estimates were performed based on alternative drawing concepts and regulatory challenges were identified.

Chub Cay Waterfront Development, Bahamas – Provided engineering design and construction management services for resort shoreline stabilization. Structures included reinforced concrete seawall, cantilevered steel bulkhead and riprap revetment. Performed construction review and approval of contractor's proposed changes.

La Guaira, Venezuela – Performed due diligence engineering feasibility studies for a potential marina acquisition. Work included a site assessment, evaluations of local marina facilities/market as well as research and review of local property records and oceanographic/ coastal sedimentation conditions. Conceptual development scenarios were proposed by ATM along with associated costs to help the potential investor understand the level of capital expenditure (initial) and maintenance requirements of the property conversion from undeveloped land into a new marina.

Royal Island, Bahamas – Project engineer responsible for design of marina embarkation facility, including site rehabilitation and improvements, wave attenuation structures, docks/piers, electrical requirements, and a public boat ramp.

Bimini Inlet Navigation Channel, Bahamas – Project Engineer for re-establishing safe navigation access into Bimini through analyses of channel excavation (dredging) and structural alternatives.

Whale Cay Feasibility Study, Bahamas – Project Manager and field engineer for engineering and environmental feasibility studies for a 150-slip marina in the Berry Islands. Led team of five environmental scientists and engineers in week long field effort targeted at characterizing local coastal conditions, as well as mapping of terrestrial and marine ecologies. Field work led to the development of an EIA for the marina and included a hydrodynamic flushing analysis to model potential water quality issues related to an enclosed basin. Obtained environmental approvals and performed marina market and design work, including excavation of an estimated 800,000 cy of material for creation of an interior marina basin.

WILLIAM R. FAY
Inspection and Construction Services

Florida Atlantic University, College of Architecture, Urban and Public Affairs
Florida Institute for Safety and Construction
Construction Management Certificate 2007

Mr. Fay has over 25 years of experience in marine construction projects including onsite inspection and administration. He has worked on technical marine projects and environmental restoration and is familiar with the environmental protection aspects of performing construction projects in sensitive areas. His work includes estimating, planning and scheduling of projects, responsibility for daily operations, equipment, personnel and material coordination, observations of work in progress, and execution of marine and land based operations.

Mr. Fay has extensive experience in the development and implementation of Environmental Protection plans, construction of artificial reefs for mitigation and recreation, construction and monitoring of concrete artificial reef modules, and coral reef restoration. He helped develop and implement coral transplanting techniques, short and long term environmental monitoring, seagrass surveys, seagrass restoration, and performed many projects in environmentally sensitive areas while managing construction techniques for minimal impact.

CERTIFICATIONS

- Army Corps of Engineers, Quality Control Management, since 1995
- State of Florida Certified Stormwater,
- Erosion & Sedimentation Control Inspector, 2007
- PADI, Open Water Diver, 1979
- NAUI, Advanced Diver Certification, 1990
- PADI, Nitrox Diver Certification, 2001

RELEVANT EXPERIENCE

Seawall Inspections and Permitting, Longboat Key, FL - Provided permitting assistance and engineering services to support establishment of coastal construction line and owner renovations of beachfront property in Longboat Key.

Boynton Marina Master Planning, Boynton Beach, FL - Provided site assessment and recommendations for maintenance, repair, and future planning at the Boynton city marina.

Twin Rivers Parks Shoreline Protection Program, Rocky Point, FL - Served as engineer's Quality Assurance representative. Performed onsite construction inspections, and coordinated with the contractor and owners representative to achieve project goals.

El Morro Breakwater Damage Assessment, San Juan, Puerto Rico - Performed initial survey of breakwater damage, followed by design of repair.

Bimini South Ferry Landing, South Bimini, Bahamas – Designed jetty and navigational markers to stabilize and mark the channel at the ferry landing. The jetty was necessary to prevent shoaling of the landing which provides daily commuter ferry access between north and south Bimini.

Ocean Outfall Modifications, Boca Raton, FL - Performed initial survey to identify areas of pipeline exposed by storm erosion. Responsible for inspection and approval of work for city engineer.

Coast Guard Station Fort Pierce Floating Dock, Ft. Pierce, FL – Project Superintendent for coordination with Coast Guard security and administrative personnel, suppliers and subcontractors. Assembled and installed floating dock and associated hardware.

Old Port Cove Marina Redevelopment, North Palm Beach, FL - Provided ongoing support for existing client including development of wind/wave criteria for storm conditions, engineering review and construction support for the north and south basin renovations. Provided construction management and site observations, problem resolution, and planning services for upland facilities.

City of Madeira Beach Municipal Marina Redevelopment, FL - Assisted with Bid specifications and bids, attended pre-bid meeting, reviewed plans and specifications, bond research, provided coordination with dock suppliers.

Town of Palm Beach Public Safety Docks – Worked on design and planning for construction of dockage for police and fire/rescue. Developed layouts and detailed structural and infrastructure plans for construction.

Peanut Island Restoration, Palm Beach County, FL - Served as Project Manager/Superintendent from bidding through completion. This project involved construction of jetties and breakwaters, two small bridges, a large concrete pier, a floating dock, and assorted other tasks. Coordinated with the USACE, Palm Beach County, and the prime contractor on scheduling and environmental protection measures.

St. Paul's School Shoreline Restoration, Largo, FL - Served as Project Manager and superintendent for the restoration of a badly eroded shoreline in an environmentally sensitive area. Coordinated with state and local environmental agencies to develop a work plan and environmental protection plan.

Manatee Pocket Dredging, Martin County FL – Currently Owner's on-site representative for the maintenance dredging of the manatee pocket waterway which includes dredging of several miles of navigation channels, canals and marina basins. Dredge spoil consists of both sand and silt material and a major confined disposal and maintenance facility has been constructed to support this effort.

Third Turtle Club, Provo, Turks and Caicos - Supported design of marina basin, bulkheads, revetments, inlet jetties, beaches and groins. Assisted owner in bidding and contractor selection. Provided recommendations for material sources and visited quarries to assess quality and quantities of materials available. Provided site inspection and construction contract administration.

Ritz Carlton, Rose Island Resort, Bahamas – Provided conceptual and final design for beaches, groins, marina, and inlet jetties. Assisted owner in bidding and contractor selection. Provided on-site construction administration, observations, and acted as owner's representative as coordinating engineer during marine construction.

South Ocean, New Providence, Bahamas -Performed engineering feasibility analysis and report including: wind/wave analysis, hurricane/ storm surge study, alternate marina basin and entrance channel layouts and excavation quantities, cost estimates and recommendations.

Ocean Club Environmental Monitoring, Paradise Island, Bahamas – Developed and implemented environmental monitoring plan to maintain water quality standards during construction project.

PETER C. PETERSON, M.S., P.E.
Senior Coastal/Marine Engineer

M.S., Ocean Engineering, Florida Institute of Technology
B.S., Mechanical Engineering, West Virginia University
Professional Engineer - FL No. 49294, VA No. 0402 037891, TX No. 98-182

Mr. Peterson has experience with coastal structures, tidal and current studies, and marine construction. He has worked on and served as the Engineer of Record for several coastal, marina, waterfront redevelopment and boat ramp projects throughout the U.S. and Caribbean, and has been responsible for the permitting, planning, design, and construction of all facets of coastal and marine engineering projects. Mr. Peterson has over 20 years experience in coastal and ocean engineering. Mr. Peterson completed an award winning marine facility siting study for St. Johns County, Florida, and developed a Master Plan for all of the City of Jacksonville's public boat ramps. International projects have included marina, coastal, and port projects, in Central America, China, and throughout the Caribbean.

RELEVANT EXPERIENCE

Key West Naval Air Station, Key West – Sr. Engineer overseeing shoreline stabilization. During construction, turbidity issues arose due to nature of work. ATM helped the Contractor improve construction techniques and provided monitoring to prevent damage to surrounding areas.

Stock Island Marina, Florida Keys – Project Engineer for design of marina planning and renovation at Stock Island. ATM assisted the Owner in obtaining the ERP permit. Work included dock layouts and initial planning, utility demands and public consensus. Project was put on hold until Owner could receive financial backing.

City of Cocoa Waterfront Municipal Redevelopment Project, FL – Project Engineer / Lead Waterfront Designer for the waterfront portion of the master plan redevelopment. Prepared recommendations and conceptual layouts for new and updated marina and waterfront elements that included mooring field layout and planning, dock layouts, design and evaluation, and boardwalk structural elements. Evaluated potential future needs of the City's waterfront district and associated amenities.

Marineland Marine Park, Flagler County, FL – Project Engineer for securing new permits for expansion and re-development of the historic Marineland Marina. A detailed flushing analysis was performed to ensure that local shellfish beds were not affected by the addition of new slips. Developed plans and performance specifications, bid support and construction oversight for a fixed and floating dock system and dock utilities in support of Phase 1 construction.

Mayport Boat Ramp Dock Improvements, City of Jacksonville, FL – Engineer responsible for the planning, permitting, development of construction and bid documents, preparation of opinion of costs, and bidding assistance/shop drawing review for additional floating docks and replacement of existing floating docks and hardware. Also performed wind/wave analysis study for dock design.

Bretts Café, Fernandina Beach, FL – Provided review of previous inspection reports and conducted a limited inspection of the piling, pile caps and beams at Brett's Waterway Café in Fernandina Beach.

Crandall Bulkhead, Terrapointe, Jacksonville, FL - Engineer overseeing permitting, design and eventual construction of a timber bulkhead along a highly eroding riverine shoreline in Nassau County.

Hunter Springs Park, Crystal River, FL - Project Engineer evaluating alternatives for shoreline stabilization at the Hunter Springs Park. Shoreline is eroding and causing increased maintenance dredging of the adjacent channel. The selected stabilization method must allow for public pedestrian access and reduction in shoreline loss.

Grande Haven, South Park, Flagler County, FL – Project Engineer responsible for layout and design of small boat launching facility and fishing pier for use as County Park on Intracoastal Waterway. Project required design of upland cut basin, and analysis of flushing characteristics to meet State requirements.

Laishley Park Municipal Marina, City of Punta Gorda, FL – Design engineer and reviewer for final project design on the City Marina. Developed design plans and specifications for the fixed and floating docks and utility replacement, oversaw contractor closeout.

Vilano Pier, St. Johns County, FL – Project Manager/Engineer for design and permitting of a floating dock for connection to the existing Vilano pier. The project is funded through a FIND grant and is intended to provide water connectivity between downtown St. Augustine, the Vilano Town Center, and St. Augustine Lighthouse.

City of Madeira Beach, FL – Project Manager and Engineer for the complete renovation of the City Municipal Marina. Completed replacement of the existing boat ramp and constructed a new ship store/office and replaced the underground storage tanks. Future plans call for complete renovation of the existing wet slips, and creating a new dry stack facility.

Old Port Cove Marina, North Palm Beach, FL – Senior Engineer for review of shop drawings and calculations to ensure adherence to plans for major marina renovation. Facilitated upland re-programming of overall facility.

Fernandina Harbor Marina Redevelopment, Fernandina Beach, FL – Design Engineer for marina modifications and permitting for renovations. Developed floating dock loads and provided recommendations for final dock selection and structural review.

Mooring Field, City of Titusville, FL – Project Manager/Engineer for the City's mooring field expansion. The mooring field was designed to accommodate up to 260 mooring field balls with associated upland amenities to handle the new slips.

Mooring Field & Breakwater/Dredging Permitting, City of St. Augustine, FL – Project Engineer for permitting and design of a new breakwater to protect the existing marina. Plans also call for dredging of the basin. Engineer of Record for installation of 178 mooring units for the City's municipal mooring field.

Island Global Yachting, Various Facilities – Performed detailed due-diligence investigations for several large marinas throughout the U.S. and Caribbean. Responsible for all marina evaluations and determination of life cycle costs and replacement.

Christophe Harbour, St. Kitts – Design Engineer for the shoreline stabilization for a new marina project in St. Kitts, as well as wind/wave analysis for fixed pier design.

State of Florida

Board of Professional Engineers

Applied Technology & Mgnt Inc

Is authorized under the provisions of Section 471.023, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.

Certificate of Authorization

EXPIRATION: 2/28/2013
AUDIT NO: 228201301938

CA. LIC. NO:
4669

State of Florida

Board of Professional Engineers

Applied Technology & Mgnt Inc

Is authorized under the provisions of Section 471.023, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.

Certificate of Authorization

EXPIRATION: 2/28/2013
AUDIT NO: 228201301938

CA. LIC. NO:
4669

State of Florida

Department of State

I certify from the records of this office that APPLIED TECHNOLOGY AND MANAGEMENT, INC. is a corporation organized under the laws of the State of Florida, filed on March 27, 1984.

The document number of this corporation is G93359.

I further certify that said corporation has paid all fees due this office through December 31, 2011, that its most recent annual report was filed on February 23, 2011, and its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

Given under my hand and the Great Seal of Florida, at Tallahassee, the Capital, this the Twenty Fourth day of February, 2011

Secretary of State

Authentication ID: **500195706185-022411-G93359**

To authenticate this certificate,visit the following site, enter this ID, and then follow the instructions displayed.
https://efile.sunbiz.org/certauthver.html

RESUMES

R. JEFF WEILER, P.E.
PRESIDENT

ROLE
PRINCIPLE IN CHARGE

EDUCATION
BACHELOR OF SCIENCE
CIVIL ENGINEERING
COLORADO STATE UNIVERSITY

LICENSURE
FLORIDA LICENSED
PROFESSIONAL ENGINEER
#46027

CONTACT INFORMATION
20020 VETERANS BOULEVARD
PORT CHARLOTTE, FL 33954
(941) 764-6447
JWEILER@WEILERENGINEERING.ORG

ADVANTAGE TO PROJECT:

- President and Founder of Weiler Engineering
- 21+ years experience in Utility Engineering
- 15 years continuous business in the Florida Keys
- Extensive Wastewater, Water, and Stormwater modeling experience

RELEVANT EXPERIENCE:

Mr. Weiler started Weiler Engineering with two employees offering specialized knowledge and a proven ability. Under his leadership and mentoring, the company has grown over the past 19 years to become a leader in the utility field in the Florida Keys and Southwest Florida.

Mr. Weiler specializes in residential, commercial and municipal engineering projects throughout South Florida and the Florida Keys and has more than twenty years experience working in South Florida.
As Principle-in-Charge, Jeff will be responsible to ensure that the proper resources are assigned to help the City of Key Largo achieve the desired project. He has served in this capacity on all the projects listed below.

REPRESENTATIVE PROJECTS:

Marathon Wastewater and Stormwater Project
Mr. Weiler, (Weiler Engineering Corp.), is the Prime Consultant to the City of Marathon, providing complete design and permitting services for its $100,000,000 wastewater and stormwater expansion project. Mr. Weiler' directed the engineering design of the systems, the permitting, and services during construction, which led to the installation of more than 56 miles of sewage collection lines, along with six wastewater treatment facilities including dewatering and sludge handling facilities. WEC also design numerous low pressure collection and distribution systems including an 800 unit collection system in grassy key.

Truman Waterfront
WEC worked under RKG Associates Inc to undertake research and analysis in order to produce an Economic Development Conveyance (EDC) Application for the Truman Waterfront and Trumbo Road Properties. Mr. Weiler, as head of Weiler Engineering and Principal in Charge, was responsible for providing planning and engineering-related services in the completion of this project including: 1) analyzing the physical condition of existing structures and providing cost estimation and analysis for the renovation or demolition of these structures; 2) evaluating the condition existing infrastructure systems including potable water, sanitary sewer, electric and telecommunications and analyzing their potential reuse; 3) providing technical expertise on traffic issues including ingress/egress from

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R. JEFF WEILER, P.E.
PRESIDENT

(Continued from page 1)

the site; and 4) providing estimates for capital improvement costs, infrastructure needs and traffic issues relative the development of the Trumbo Road Waterfront site based on proposed uses as a City street and waterfront marina.

KW Resort Utilities

Many engineering services for the KW Resort Utility were accomplished under the guidance of Mr. Weiler. These services include submitting permit renewal applications, writing a reclaimed water reuse protocol, review of plans submitted by developers, and construction inspection on behalf of the Utility for developments in the service area. Included in these projects were the connection of the Key West Botanical Gardens and the Florida Keys SPCA wastewater systems to the KW Resort Utility wastewater facility. Other recent projects include replacement of 4,000 feet of reclaimed water force main and the abandonment of three (3) effluent disposal wells. Each project was completed within budget and on schedule. Under Mr. Weiler's responsible charge WEC has provided a range of construction services including full construction inspection and engineering for a low pressure collection system at the Sunset Trailer Park.

Hawk's Cay Resort

WEC provided planning, design, construction engineering and inspection for nearly every phase of this project including a linear park with a Multi-Use Recreational Trail, site work, stormwater drainage and treatment, water distribution, wastewater collection and treatment facilities, reclaimed water pumping, transmission and irrigation, docks, seawalls, environmental permitting and structural design for all of the homes and common facilities, including the linear park. Jeff worked closely with the owners to insure their requirements were met throughout this project.

A multi-use trail highlights the main boulevard entering the upscale resort on Duck Key and continues throughout the resort encompassing all of the ingress and egress to the property, parking and stormwater facilities and multiple resort recreational amenities. The multi-use recreational trail ultimately links the park and trail to the Overseas Heritage Multi-use Recreation Trail extending the entire length of the Florida Keys. The project was a joint effort between the resort and the County in cooperation with multiple public funding sources including the Rails to Trails program.

Indigo Reef

The complete site and structural design, permitting and construction contract administration, for this 67 unit waterfront resort and 67 slip marina on Florida Bay was achieved by Mr. Weiler. Engineering design services and services during construction were provided for nearly every phase of this project including site, stormwater drainage and treatment,

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RESUMES

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PRESIDENT

(Continued from page 2)

filling in a portion of two canals, water distribution, wastewater collection and treatment facilities, docks, seawalls, environmental permitting and structural design for all of the homes and common facilities.

Parrot Key Resort

Mr. Weiler was the Lead Manager and Project Engineer for this waterfront resort in Key West designed and permitted by Weiler Engineering . WEC was responsible for nearly all of the design and provided construction administration including inspection. The project included over 80 units, private beaches, two dock facilities, private beaches, 4 pools, subsurface stormwater management system and restaurant. WEC coordinate through the City of Key West and the Florida Keys aqueduct authority for utility connections. WEC also was required to obtain permits from the SFWMD, FDEP and ACOE for various portions of the project. The project was completed on time and within budget.

Tranquility Bay Resort

The Weiler Engineering Corporation, under the direction of Jeff Weiler as Principal in Charge, was responsible for the design of the 12 acre waterfront resort Tranquility Bay Beach House Resort located in Marathon, Florida. The resort consists of 87 condominium beach homes, including a 2.5 acre private beach, great lawn, swimming pool, salt water lagoon, Tiki bar, and a world class restaurant. . Engineering design services and services during construction were provided for nearly every phase of this project including site, stormwater drainage and treatment, water distribution, wastewater collection and treatment facilities, docks, seawalls, environmental permitting and structural design for all of the homes, beach, seawalls, docks, boardwalks and common facilities. The project is unique and complex as it was necessary to replace an existing deteriorating resort with upscale homes and to restore an existing beach and expand it by more than two acres. In addition, it was necessary to stabilize 2000 feet of shoreline with a natural rip-rap seawall. Other design requirements unique to this project include upgrade of an existing wastewater treatment plant to 2010 BAT standards and construction of a complex underground stormwater retention area to provide necessary treatment prior to discharge to the aquatic preserve. Also, WEC worked with the local fire department to provide fire protection to all areas of the resort utilizing a dry line standpipe system as the density and the unique shape of the property precluded adequate access for fire protection vehicles to those areas.

Palmetto Plantation

Mr. Weiler is the Lead Manager and Project Engineer for this 25.62-acre development in Charlotte County. The project involves the construction of a mixture of single family and multifamily homes, and the creation of a 3.81 -acre lake that is directly connected to Shell Creek. A seawall surrounds the lake, with docking facilities within the lake. Along Shell Creek there is a wetland preservation and mitigation. The presence of this natural features made coordination with permitting agencies a top priority.

RESUMES

EDWARD R. CASTLE, P.E.
VICE PRESIDENT

ROLE
WASTEWATER DEPARTMENT MANAGER

EDUCATION
BACHELOR OF SCIENCE
CHEMICAL ENGINEERING
UNIVERSITY OF KENTUCKY

LICENSURE
FLORIDA LICENSED
PROFESSIONAL ENGINEER
#58574
FLORIDA CLASS A
WASTEWATER PLANT OPERATOR
#0008359

CONTACT INFORMATION
6805 OVERSEAS HIGHWAY
MARATHON, FL 33050
(305) 289-4161
ECASTLE@WEILERENGINEERING.ORG

ADVANTAGE TO PROJECT:

- Principle with Weiler Engineering
- 24+ years wastewater planning, design and operation
- 20+ year Monroe County resident
- Extensive wastewater modeling experience
- Experience with gravity, pressure, and vacuum sewers
- Class A Wastewater Treatment Plant Operator

RELEVANT EXPERIENCE:

Mr. Castle specializes in residential, commercial and municipal wastewater engineering projects throughout South Florida and the Florida Keys and has more than twenty years experience working in South Florida. As Project Engineer, Mr. Castle will be responsible to insure the quality and accuracy of the projects for the County. He has served in this capacity on all the projects listed below. Mr. Castle was formerly the Region Director for Synagro, Inc. in charge of the Biosolids Management Division.

REPRESENTATIVE PROJECTS:

Boat House at Coral Lagoon Resort

WEC was chosen for the design of this 5.4-acre waterfront resort community in Marathon, Florida. Weiler provided complete site and structural design, permitting and construction contract administration for this 35-unit waterfront marina resort, 89-slip marina, 47,000 square foot dry storage facility, and marina store on Florida Bay under the direction of Ed Castle as Principal in Charge. Engineering design services and services during construction were provided for nearly every phase of this project including site, docks, seawalls, environmental permitting and structural design of all homes, seawalls, docks and common facilities. For this project, it was necessary to completely restore all of the existing seawalls, boat-well and docks, as well as, construct new structures in some areas and expand the docking facilities to enhance flushing and water quality through the marina. The project also included the design and permitting of enhancing the channel access from Bone Fish Harbor.

Included in this project was a newly designed Fire Protection System for the residential area, boat house and docks. An innovative approach to the stormwater management system design included the use of an otherwise unused area under the dry rack storage in the boat house for stormwater retention. This concept was not only cost effective but required no above ground retention elsewhere on the site.

Marathon Master Wastewater and Stormwater Project

Mr. Castle worked closely with the City in preparing the Facilities Plans,

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VICE PRESIDENT

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including a phased $120 M Capital Projects and an annual O&M Budget. Mr. Castle and his staff prepared a very detailed analysis of different collection technologies and phasing plans for the Islands of Marathon. As a result of their extensive efforts, the Weiler team reduced the cost of the overall wastewater collection and treatment system less than one half of the previously bid wastewater project. The WEC Plan was approved by FDEP and the State Clearing House for participation in the State Revolving Fund loan program. Mr. Castle has assisted the City in receiving over $19.2 M in grants and $24.5 M in loans. Grants have been received from SFWMD, FDEP, FDOT and NEPA, as well as ARRA grants. The collection systems involved a variety of collection and transmission technologies including vacuum, low pressure, and gravity systems. A variety of wastewater treatment technologies were used at the WWTPs sites and service included the design and implementation of Supervisory Control and Data Acquisition (SCADA) systems with Human Machine Interface (HMI) and plant dewatering and sludge handling facilities. Integrating an innovative stormwater management system into the design and construction of the wastewater system, has saved the City an additional $40 M and won the EPA PISCES Award. Mr. Castle worked very closely with the City of Marathon Staff and has functioned as an extension of City staff as a City engineer. Under his direction, Mr. Castle's staff provided construction administration where they conducted construction progress meetings, provided public outreach services and performed construction inspection and engineering. He has also assisted in the training of City staff on Operation and Maintenance, GIS and asset management, helping to train staff to use the GIS equipment and asset management system software.

Key Largo Wastewater Treatment District

The many tasks in this project include overseeing engineering consultants, planning, design, construction administration, compliance reviews and general consulting services. Mr. Castle prepared the Facilities Plan for the wastewater system to serve 13,000 EDUs in multiple service areas. The Plan was passed through the State Clearing House and is used to obtain funding through SRF and other loans, as well as grant funding from FDEP, Monroe County and ARRA. Based on the plan, design firms were hired to implement the plan, and WEC reviewed the design and provided construction administration for the $130M project. WEC was also tasked with a large portion of the collection system design. WEC has also designed several vacuum stations in residential and commercial areas. Mr. Castle is also the Engineer of Record for the District's wastewater treatment plant expansion.

Key West Resort Utilities

Mr. Castle was project manager for much of the collection system design and construction administration. One example of a recent project was to connect the Monroe County Detention Center, the Key West Botanical Gardens and the Florida Keys SPCA wastewater systems to the KW Resort Utility

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RESUMES

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VICE PRESIDENT

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wastewater facility. Other recent projects include replacement of 4,000 feet of reclaimed water force main, the abandonment of three effluent disposal wells and numerous upgrades and expansions to the wastewater treatment plant including the conversion to Advanced Wastewater Treatment Standards and design of its reclaimed water pumping and distribution system. Mr. Castle is the engineer of record for numerous developments, designing and providing construction engineering for onsite vacuum and gravity systems, which were later owned by KWRU. Each project was completed within budget and on schedule. In his long experience serving as the consulting engineer for KWRU through a number of projects, including design and construction administration, Mr. Castle has demonstrated a positive consultant-client relationship which has been appreciated by all KWRU staff. Mr. Castle also provides general consulting services for KWRU related to Public Services Commission rate hearings, treatment process control and capital planning. Mr. Castle was responsible for aerobic digestion unit, and sludge drying beds as part of the dewatering and sludge handling process.

Hawks Cay

WEC provided planning, design and services during construction for nearly every phase of this project including site, stormwater drainage and treatment, water distribution, wastewater collection and treatment facilities, docks, seawalls, environmental permitting and structural design for all of the homes and common facilities. Mr. Castle served as the engineer in charge and was responsible for assuring completion of this project.

RESUMES

MICHAEL J. GIARDULLO, P.E.
DIRECTOR OF CIVIL ENGINEERING

ROLE
PROJECT MANGER / DESIGN ENGINEER

EDUCATION
BACHELOR OF SCIENCE
CIVIL ENGINEERING
LOYOLA MARYMOUNT UNIVERSITY

MASTER OF SCIENCE
CIVIL ENGINEERING
COLORADO STATE UNIVERSITY

LICENSURE / QUALIFICATIONS
FLORIDA LICENSED
PROFESSIONAL ENGINEER
#70676

ADVANCED MAINTENANCE OF TRAFFIC
QUALIFICATION

FDEP QUALFIED STORMWATER
MANAGEMENT INSPECTOR #14470

LEED ACCREDITED PROFESSIONAL

CONTACT INFORMATION
20020 VETERANS BLVD SUITE 7-9
PORT CHARLOTTE, FL 33954
(941) 764-6447
MGIARDULLO@WEILERENGINEERING.ORG

ADVANTAGE TO PROJECT:

- MS degree with an emphasis in Wastewater
- Proven ability in modeling
- Local Keys knowledge

RELEVANT EXPERIENCE:

Mr. Giardullo has been with Weiler Engineer for over 5 years and currently serves as the Director of Civil Engineering. Under his responsible charge, Weiler Engineering has designed and permitted countless roadway projects in South Florida. Mr. Giardullo has performed design, permitting and project management service for many municipalities and has worked very closely with FDOT , FDEP, and the SFWMD.

REPRESENTATIVE PROJECTS:

City of Punta Gorda Harborwalk Project
WEC has been tasked by the City of Punta Gorda to design various components of the "City's Ring Around the City." In addition to a mile long multi-use recreational trail, as well as a streetscape and intersection improvement project, Mr. Giardullo has designed the high profile sections known as the Harborwalk. Mr. Giardullo was the Engineer of Record and lead designer for both the Harborwalk East (under construction) and Harborwalk West Projects (design and permitting completed, awaiting construction). The design included coordination with the City's utility department in the relocation of existing sewer lines and the connection on multiple buildings to the City's central sewer system. He was responsible for the complete design and permitting through State and Federal entities and made sure that every 30%/60%/90% and final construction plan submittals were completed within the specified time frame. Mr. Giardullo worked closely with City staff to make sure the City's vision was achieved in the final design. In addition to providing formal update presentations to City Council throughout the design process, Mr. Giardullo also arranged and hosted public forum meetings and met with interested community groups and private individuals. He also assists the City in obtaining grant funding for portions of this project by writing grant applications and presenting the project to funding entities.

Sombrero Beach Road Extension
WEC was tasked by the City of Marathon to complete a road improvement design which included the parking area for the City's Sombrero Beach Park and numerous other improvements including wastewater, speed tables for pedestrian safety, stormwater treatment system, roundabout and landscaping. Mr. Giardullo was the lead engineering designer during the conceptual planning stage and later led the final design and permitting. Together with City Staff, Mr. Giardullo worked to submit the project for LAP funding through the FDOT. He prepared a presentation, which he gave at a FDOT scoping

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MICHAEL J. GIARDULLO, P.E.
DIRECTOR OF CIVIL ENGINEERING

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committee meeting, and with City staff he attended work shops with the FDOT. The project was accepted in the FDOT five year plan and because of the level of completion and quality of the plans and funding application, the project received LAP funding in approximately one year's time and has since been constructed. Mr. Giardullo also led several open public meeting to gain input from residents throughout the design.

Shreeve Street Multi-Use Recreational Trail, Punta Gorda, FL
Weiler Engineering was hired by the City of Punta Gorda to design and permit a multi-use trail. As Director of Civil Engineering and lead engineer on this project, Mike was responsible for coordinating the project through the SWFWMD, and the design and construction sequencing plan was developed in conformance with the USFWS National Bald Eagle Management Guidelines and the USFWS Bald Eagle Monitoring Guidelines due to the presence of a Bald Eagle's nest located immediately adjacent to the project site. Extensive coordination was needed to ensure the project design would not adversely effect this endangered species.

Marathon Wastewater and Stormwater Project –
WEC is the Prime Consultant to the City of Marathon, providing complete design and permitting services for its $100,000,000 wastewater and stormwater expansion project. The project includes engineering design, permitting, and services during construction, to install more than 56 miles of sewage collection lines, along with six wastewater treatment facilities. Mike served as the project manager for all of the stormwater design which included over 1,000 inlet structures and 100 wells and for portions of the wastewater collection systems and the wastewater treatment plans. He worked closely with the City of Marathon staff in the design of the system to ensure the City was satisfied with the proposed layout. Mike also designer numerous roadway improvements including the complete reconstruction of 122nd Street and the construction of Avenue K. Mike also conducted a series of public meetings to inform residents of work being performed in their neighborhood. Mike was instrumental in obtaining the Florida Stormwater Association's 2011 Excellence Award for the Project. Lastly, Mike served as the construction administrator in charge of the construction engineering and inspection for many service areas.

City of Marathon Marina Wastewater Upgrade Project
WEC performed a number of wastewater tasks at the City of Marathon Marina, including the design and construction administrative of a large public bath and laundry facility, upgrades to the City's boat pump-out and sewage transmission line, pump station design, force main design, buffer tank design and conversion of existing sewer components throughout the large municipal park, to connect into the City's central collection system. Mr. Giardullo was involved

RESUMES

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MICHAEL J. GIARDULLO, P.E.
DIRECTOR OF CIVIL ENGINEERING

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with all of aspects of these projects and performed project management services. Mr. Giardullo also assisted the City by coordinating a $240,000 Infrastructure Improvement Grant from the EPA. Mr. Giardullo also assisted the City by dividing the project into different phases and coordinating the effort of a number of different contractors who were all working on different portions of the project to ensure that the final system functioned as intended in the design.

Kiwanis Park Improvements

WEC, under Mike's direction as Engineer in charge recently completed the design of detailed construction drawings for the reconstruction of 2 boardwalk replacements, a bridge replacement, a new bridge and improvements to an existing steel bridge for Kiwanis Park. Services also included shell trails and ADA compliant access to restrooms and parking lot reconfiguration. WEC was responsible for the final designing of the construction documents and demolition plan for bidding and construction, along with administration services throughout this process. Boardwalk and bridge replacements required some substantial impacts to a large wetland area onsite including the construction of a 400 linear foot meandering boardwalk with a pavilion proposed in a wetland. In order to receive the necessary State and Federal Permits, WEC took the responsibility for mitigating these impacts by supplying a planting plan which provided replacement of existing species and new species to create a more diversified and higher quality wetland. The planting plan, removal of invasive and nuisance species, preservation of the wetlands and uplands, and the enhancement of the wetlands within the temporary impact area, will mitigate for impacts within the wetlands and the enhancement and preservation will increase the vegetative community structure. The plan was permitted through the SWFWMD and the ACOE. WEC's construction cost estimate for all improvements involved are $237,000.

Hawks Cay

WEC provided planning, design and services during construction for nearly every phase of this project including site, stormwater drainage and treatment, water distribution, wastewater collection and treatment facilities, docks, seawalls, environmental permitting and structural design for all of the homes and common facilities. Mike served as the project manager during the resort rehabilitation and provided construction engineering and inspection services. The project was challenging because the resort stayed open during construction. Mike worked closely with the owner and contractor to minimize the effect to resort guests.

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RESUMES

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STEPHEN L. MARKEY, E.I.
DESIGN ENGINEER
CONSTRUCTION MANAGER

ROLE
DESIGN ENGINEER
CONSTRUCTION ADMINSTRATOR

EDUCATION
BACHELOR OF SCIENCE
GEORGIA INSTITUTE OF TECHNOLOGY

LICENSURE
LICENSED
ENGINEERING INTERN

CONTACT INFORMATION
6805 OVERSEAS HIGHWAY
MARATHON, FLORIDA 33050
(305) 289-4161
SMARKEY@WEILERENGINEERING.ORG

ADVANTAGE TO PROJECT:

- Intermediate MOT Certified
- Qualified Stormwater Management Inspector
- 15 year + Keys Resident

RELEVANT EXPERIENCE:

Mr. Markey's solid background in construction engineering and inspection has allowed him to hold the titles of Construction Projects Administrator and Design Engineer. Mr. Markey currently coordinates directly with contractors on behalf of clients, with responsibilities such as reviewing applications for payment from contractors and recommending payment, reviewing change order requests, and assisting the inspection team with various field construction issues. His design responsibilities include conducting stormwater modeling analyses, evaluating and implementing sewer and stormwater design revisions, and reviewing and revising construction specifications. Mr. Markey also works closely with several government agencies such as the FDEP, the EPA, and the South Florida Water Management District, and is responsible for the collection of documents for a number of job reporting requirements for LAP and ARRA funding.

REPRESENTATIVE PROJECTS:

City of Marathon Sewer, Stormwater and Paving Project
WEC worked closely with the City of Marathon to provide planning documents for the Florida State Revolving Fund Loan Program, including life cycle costing and construction cost estimates. WEC provided design, permitting and bidding assistance for a sewer collection, transmission and treatment system which included various technologies, including gravity, vacuum and low pressure for maximum efficiency and cost effectiveness. WEC provides construction administration services, GIS/GPS data collection, and development of the City's asset management system. Mr. Markey provided design services for many of the stormwater collection and treatment systems, and site layout and stormwater design for wastewater treatment plants and vacuum stations. He has worked closely with the FDEP and SFWMD staff to ensure permitting went smoothly and timely and has also played an important role in working closely with the City of Marathon's LAP and ARRA funding for the project and provided management throughout the design and construction to ensure compliance with the grant documentation requirements. Mr. Markey has also assisted public meetings to educate the public on the project and answer general and site specific inquiries, in addition to assisting the City by meeting one-on-one with members of the general public and community groups.

PLANTATION TROPICAL PRESERVE KAYAK AND CANOE RAMP, Islamorada, FL
Weiler Engineering was selected by the Village of Islamorada to design and permit improvements to a City Park Facility known as the Tropical Plantation Preserve. Among the improvements were a gravel access drive to the ramp

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STEPHEN L. MARKEY
DESIGN ENGINEER
CONSTRUCTION ADMINISTRATOR

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and a concrete ramp with floating kayak and canoe launch. Weiler was responsible for the full design and permitting of these improvements through the FDEP and the ACOE. Steve Markey coordinated efforts as construction Manager throughout this project. Weiler was also responsible for developing a planting mitigation plan for mitigating the removal of a mangrove fringe in the location of the proposed ramp and other native plant species. Extensive coordination with the regulatory agencies and the Village was required in order to construct this facility in the environmentally sensitive preserve area.

Little Venice Phase II - Stormwater and Paving Project
WEC provided the design for utilities and road improvements for all streets in a portion of the City of Marathon known as Little Venice Phase II**,** and provided construction engineering and inspection services. The project involved improvements to the City's central sewer system, road repairs, overlay and reconstruction and a complete stormwater system. The project was especially challenging due to narrow right-of-ways and many existing active and abandoned utilities. A large portion of this project was partially funded through LAP money. Mr. Markey was responsible for the full construction engineering and inspection services. As unknown issues were discovered during excavations, Steve was responsible for providing field engineering solutions. Multi issues with the existing sewer system were uncovered during construction, and Mr. Markey was responsible for quickly generating solutions to these time sensitive problems. He was also responsible for ensuring that all documentation was in place during construction and for the final audit in compliance with the LAP reporting requirements.

Little Venice Phase I – Stormwater and Paving Project
WEC was tasked by the City of Marathon to provide stormwater and paving design for an area of the City with narrow right-of-ways. Mr. Markey has provided construction administration services, including supervision of inspectors, response to contractor RAI, submittal review and pay application review. He also attends progress meetings and performs site inspections to develop solution to issues discovered in the field.

State of Florida

Board of Professional Engineers

The Weiler Engineering Corporation

Is authorized under the provisions of Section 471.023, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.

Certificate of Authorization

EXPIRATION: 2/28/2013

AUDIT NO: 228201302432

CA. LIC. NO: 6656

Brian McCord
Lead Driller

Mr. McCord has over 25 years experience in the geotechnical and environmental well drilling services and geotechnical exploration and mineral research. His experience includes drilling water well, rural, and community wells with depths up to 1200 ft.; monitoring wells for oils and gases which exceed depths of 10,000 feet and wireline rock coring to depths of 350ft.

He is experienced with hollow stem augers up to 10 1/4 inch in diameter; continuous split spoon sampling; and hammer type spoons of every size. He has drilled on several different types of rigs, CME Big-75 Tandem diesel auto-hammer, CME-75 gas w/ cathead rope hammer, Top-drive Hydraulic Rotary Buggy rigs; CME-45 Track-Drilling rig; Diedrich; Garder-Denver 1200 and 1500; Simco; and off shore Vibracore equipment.

Mr. McCord is also experienced with Shelby Tube Sampling; THD testing; field logging; NX; NQ; and HQ coring in Limestone, Cleachy, Clays, Granite, Coal, Eagle Ford and other Shale, Cemented Sands, Calcareous, Sandstone, Iron-ore, and Chert. He operates all types of heavy equipment, such as back-hoe, track-hoe and dozer and is experienced with solid flight augers, drill-stem pipe rock coring, diamond bits, all sizes of core barrels and inner barrels, [split and solid] wire-line coring systems, and mud-rotary. He also services, maintains, and repairs any rig truck or equipment. He is responsible for the maintenance, coordination of GFA's fleet of drill rigs and as well as the associated field crews who perform a variety of geotechnical testing services. In addition, Mr. McCord assists with geotechnical project coordination, oversees the day-to-day lab/office services, and is responsible for record keeping as well as the production of geotechnical reports.

Professional Affiliations

- American Concrete Institute
- ASFE

Selected Municipal Geotechnical and Testing Continuing Contract Experience

- Alachua County, Florida
- St. John's County, Florida
- Polk County, Florida
- Village of Wellington, Florida
- City of Fort Lauderdale, Florida
- City of Margate, Florida
- City of Miramar, Florida
- South Florida Water Management District
- City of Naples, Florida
- City of Punta Gorda, Florida
- Brevard County, Florida
- Village of Islamorada, Florida
- Lee County, Florida

Selected Geotechnical Soils Experience

- Herbert Hoover Dike, Task Order 3 (Belle Glade, Florida)
- Jew Fish Creek Bridge – Wire Line Coring 100'

- Freeport Landfill, Texas – Slurry wall coring
- Comanche Peak Nuclear Power Plant, Texas Slurry Wall wire Line Coring
- Lake Mitchell Dike Slurry wall Wire Line coring
- Mercury Flux Study – 230' Wire Line Cores for SFWMD
- Stokes Cattle Ranch – Aggregate Mine Study – Twenty 200 foot NX cores
- Oil and Gas exploration wells roughneck
- Riverside Hotel – Ten 100 foot SPT's (Broward County, Florida)
- Numerous Shallow SPT's for residential and commercial projects
- State Road 80
- OOCEA SR 408 253B Widening (Orlando, Florida)
- Milling/Resurfacing of 91st Street, SW 8th – SR 26 (Gainesville, Florida)
- Gladiolus Drive Widening, Pine Ridge Road – Winkler (Fort Myers, Florida)
- SR 826, FDOT Project E-6E69, Sunset – Bird Road (Miami, Florida)
- SR 834 – Sample Road (Pompano Beach, Florida)
- Village Parkway Extension & Crosstown Parkway (Port St. Lucie, Florida)
- SR 78, FDOT Project T1286 (Glades County, Florida)
- Taxiway B Realignment (Naples, Florida)
- A1A Widening (Jupiter, Florida)
- Panther Trace Subdivision (Riverview, Florida)
- FPL Manatee Plant Expansion (Parrish, Florida)
- Loxahatchee River District Water Treatment Plant Expansion
- Oasis Singer Island, Two 20-story condominium towers (Singer Island, Florida)
- Target, 190,000 sf retail center (Miramar, Florida)
- Jupiter Inlet Jetty Extension (Jupiter, Florida)
- Canal Lining for SR 713 – FDOT District 4 (Ft. Pierce, Florida)
- Harbor Island Development Preload (Hallandale, Florida)
- Replacement of Marina Seawall @ PGA Marina (Palm Beach Gardens, Florida)

Selected Material Testing Experience

- Florida Hospital East
- Holiday Inn Sunspree
- Comfort Inn
- Lake County Judicial Center Expansion and Garage
- U.S. Southern Command Headquarters (Doral, Florida)
- Holiday Inn (Orlando, Florida)
- 200 Las Olas (Fort Lauderdale, Florida)
- Boca Raton and Club Conference Center (Boca Raton, Florida)
- Brickell Financial Center (Miami, Florida)
- Espirto Santos (Miami, Florida)

Paul H. Danforth, P.E.
Regional Vice President
Professional Engineer

Paul H. Danforth, P.E., Regional Vice President and a Florida registered Professional Engineer, has been providing construction materials testing services and engineering consulting for over 24 years (20 in the State of Florida). His past experience has included performing the duties of threshold inspector, geotechnical engineer, structural design engineer, civil engineer, project manager, engineering technician and quality control technician. As a licensed Special Inspector under FS 553, Mr. Danforth has provided qualification of numerous threshold buildings.

Mr. Danforth oversees the Fort Myers, Delray Beach, and Stuart operations of GFA. Operations include geotechnical evaluations, construction materials testing, structural design, building inspection, threshold inspection, forensic and plan review services for residential, commercial, public and industrial projects.

Education

- North Carolina University, Raleigh, North Carolina
- B.S. in Civil Engineering (1987)

Licenses and Registrations

- Florida Registered Professional Engineer (1991) License #44653
- Florida Registered Special Inspector (1996) License #1103

Organizations and Affiliations

- American Society of Civil Engineers
- Former Vice-Chairman of the City of Greenacres Code Enforcement Board

Selected Material Testing Experience

- Allegro at Abacoa Assisted Living (Jupiter, Florida)
- Vero Beach Elementary School (Vero Beach, Florida)
- Martin County Aquatics Complex (Stuart, Florida)
- State Road A-1-A Widening and Re-surfacing between Indiantown Road & Marcinski, (approximately 2 miles) (Jupiter, Florida)
- Abacoa Secondary Roadway Construction & Utility Installation (approximately 2.5 miles) (Jupiter, Florida)
- Bear's Club Roadway & Utility Installations (approximately 2.5 miles) (Jupiter, Florida)
- The Ritz Carlton Golf Club and Spa Roadway and Utility Installations (approximately 2.5 miles) (Jupiter, Florida)
- Abacoa Phase II Central Boulevard – Water, Sewer, Reuse and Surface Water Management System Improvements – NPBCID Unit of Development No. 9B (from Frederick Small Road to Indian Creek Parkway (approximately 2 miles) (Jupiter, Florida)
- Tequesta Sewer Main Installation (approximately 2 miles) (Tequesta, Florida)
- Center Street Sewer Main Installation (approximately 1 mile) (Jupiter, Florida)
- Tract PC1 and Solid Waste Authority Access Road Improvements (approximately 1.0 miles) (Jupiter, Florida)

Selected Geotechnical Experience

- Digital Domain (Tradition at Port St. Lucie, Florida)
- Jupiter Medical Center Expansion (Jupiter, Florida)
- FPL Manatee Plant Expansion (Parrish, Florida)
- Loxahatchee River District Water Treatment Plant Expansion
- Over 2,000 Residential Structures (Florida)
- Oasis Singer Island – Two 20-story condominium towers (Singer Island, Florida)
- Target – 190,000 SF Retail Center (Miramar, Florida)
- Jupiter Inlet Jetty Extension (Jupiter, Florida)
- Canal Lining for SR 713 – FDOT District 4 (Fort Pierce, Florida)
- Harbor Island Development Preload (Hallandale, Florida)
- Replacement of Marina Seawall @ PGA Marina (Palm Beach Gardens, Florida)

Additional Project Experience

- Boston Red Sox Spring Training Stadium (Fort Myers, Florida)
- Vero Beach Elementary School (Vero Beach, Florida)
- Wellington Regional Medical Center Women's Center (Wellington, Florida)
- Lake County Judicial Expansion & Parking Garage (Lake County, Florida)
- Elementary L, Osceola County School District (Osceola County, Florida)
- Wellington Green Mall (1.1 million SF Regional Mall) (Wellington, Florida)
- Dolphin Mall (1 million SF Regional Mall) (Miami, Florida)
- Regency Dunes II (12-story Condo) (Hutchinson Island, Florida)
- The Medalist Golf Club Clubhouse (Hobe Sound, Florida)
- Jenson Beach High School (6 Educational Buildings) (Martin County, Florida)
- Martin County Middle School AA (Cafetorium and Gymnasium) (Stuart, Florida)
- Jefferson at Flagler (9-story Condo, 4-story Parking Garage) (West Palm Beach, Florida)
- Jupiter Ocean Grande – Buildings 1, 2, 3 and 4 (8-story Condos) (Jupiter, Florida)
- Abacoa Town Center – Building 4/5/6 (5-story Mixed-use) (Jupiter, Florida)
- Crown Theatre (2-story Theatre) (Jupiter, Florida)
- The Admiral at Jupiter Yacht Club (8-story Condo) (Jupiter, Florida)
- The Point at Jupiter Yacht Club, (8-story Condo) (Jupiter, Florida)
- The Mariner at Jupiter Yacht Club, (8-story Condo) (Jupiter, Florida)
- The Office Building at Jupiter Yacht Club, (5-story Condo) (Jupiter, Florida)
- Via Delfino (20-story Condo) (Singer Island, Florida)
- Oasis Singer Island, (Two 20-story Condo) (Singer Island, Florida)
- Waverly at Las Olas (12-story Condo) (Fort Lauderdale, Florida)
- The Victor Hotel (5-story Hotel) (Miami, Florida)
- 1350 Main (17-story Condo/Retail) (Sarasota, Florida)
- Oleander Power Plant – 5 Simple Cycle Units with Support Facilities (Cocoa, Florida)
- Town of Jupiter Community Center (Jupiter, Florida)
- Jupiter First Church (Jupiter, Florida)
- Lantana Middle School – Cafetorium Building (Lantana, Florida)
- Conniston Middle School – Cafetorium Building, Gymnasium (West Palm Beach, Florida)
- Atlantic High School (All buildings designated as Hurricane Shelters) (Delray Beach, Florida)

State of Florida
Board of Professional Engineers

GFA International

Is authorized under the provisions of Section 471.023, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.

Certificate of Authorization

EXPIRATION: 2/28/2013
AUDIT NO: 228201300086
CA. LIC. NO: 4930

SBA Small Business Types

Note: The information shown below has been validated by the SBA.

If the information you provided represents your firm as a small business, please be aware that, for fraudulent misrepresentation as a small business, 15 U.S. C 645(d) provides for imposition of fines, imprisonment, or both; that your firm be subject to administrative remedies, including suspension and debarment; and that your firm be ineligible for participation in programs conduced under the Small Business Act.

If you do not agree with these results, please review your input for number of employees and annual receipts (please note that the size of your business must include the employees and receipts of all affiliates.) You may also need to review your business type selections. If you consider your entity a small business, it must be one that is organized for profit, with a place of business in the United States, and meets the size standard for its industry. For information about the SBA size standards go to http://www.sba.gov/size/. If you have questions and would like to speak with your firm's closest SBA Area Office Size Specialist go to http://www.sba.gov/size/indexcontacts.html.

DUNS #:	049716504
SBA UserID:	P0555028
SBA Information:	

NAICS	Description	Small Business	Emerging Small Business
237110	Water and Sewer Line and Related Structures Construction	Y	Y
541330	Engineering Services	See Below	N
	General $4.5m small business size standard	N	N
	Special $18.5m size standard for Marine Engineering and Naval Architecture	Y	N
	Special $27m size standard for Military and Aerospace Equipment and Military Weapons	Y	N
	Special $27m size standard for Contracts and Subcontracts for Engineering Services Awarded Under the National Energy Policy Act of 1992	Y	N
541350	Building Inspection Services	Y	N
541380	Testing Laboratories	Y	N
541620	Environmental Consulting Services	Y	N
562910	Remediation Services	Y	N

STEPHEN WHITEHOUSE, RLA, AICP, LEED AP

Partner

Education

Bachelor of Arts in English and American Literature and Language, Harvard University, 1976

Bachelor of Science in Landscape Architecture, City College of New York, 1982

Master of Science in Architecture and Urban Design, Columbia University, 1983

Registration

Landscape Architecture, New York Connecticut, New Jersey

Professional Organizations/Affiliations

American Institute of Certified Planners
American Planning Association
Urban Land Institute

Awards

"Excellence in Design", The Public Design Commission Award for Bushwick Inlet Park, 2009

Urban Design and Project Merit Award, NY AIA for Hudson RISE, 2008

"Excellence on the Waterfront", Waterfront Center Annual Award for East River Esplanade Park, 1995

Publications/Speaking

"Lower Manhattan Streets: Driving Economic Growth"
DDC Talks, December 2010

"Stormwater and Public Space on the Gowanus: Reclaiming a Brownfield site for NYC", Urban Green Expo, September 2010

"Cutting Edge Reposition" Design Intelligence Magazine, November 2010

"The Built Form of Long Island Cities" Regional Plan Association, Long Island Mayor's Institute, June 2006.

Somerset Charette, Regional Plan Association, April 2006.

Professional Experience

Stephen is a landscape architect and urban planner whose diverse pursuits share a concern for the environmental quality and social vitality of places. He formerly served as Chief of Planning for the New York City Department of Parks & Recreation, where he managed the expansion of the USTA National Tennis Center in Flushing Meadows and launched the City's Greenway system. Stephen was a principal at Saratoga Associates for eight years before forming Starr Whitehouse.

Rather than focusing on a single aspect of the work, he's always been most fascinated by the juncture points. "Natural systems, patterns of settlement, infrastructure – seeing all these come together to make a place is interesting to me, not just as abstract concepts," he says, "but in terms of seeing good results at the end." He describes his role in terms of junctures as well. "I'm the translator," he says. "I serve as the mediator between the specialists and the public. I like communicating with people, and seeing things shaped by the creative interactions of people and institutions."

Representative Projects

Water Street: A New Approach, New York, NY
Brooklyn Queens Expressway Enhancement, Brooklyn, NY
Bushwick Inlet Park on the East River Shore of Williamsburg in Brooklyn, NY
Gowanus Green waterfront zoning and design approvals, Brooklyn, NY
Starlight Park Riverhouse, landscape design of new river center, Bronx, NY
Flatiron/23rd Street Partnership Streetscape Master Plan, New York, NY
East 4th Street Cultural District Streetscape Master Plan, New York, NY
NYC Dept. of Environmental Protection, Long Term Control Plan for CSO's, public participation for $35 million engineering study for NY Harbor water quality improvements, coordinating 10 public stakeholder teams
Times Square Alliance, Urban Design event infrastructure coordination
Governors Island Park Planning and Design:
- National Park Service, Governors Island National Monument General Management Plan, consulting landscape architect
- Governors Island Alliance, co-author of park design guidelines
- Battery Park City Authority, park design for NY State island feasibility plan

Bayville, Long Island, Town Center Plan
Remsen Avenue DEP Maintenance Facility, landscape design.
Duarte Square Schematic Design for Trinity Real Estate, New York, NY
As Chief of Planning for NYC Parks, oversaw expansion of the USTA National Tennis Center, NYC Greenway Implementation, and open space mitigation for major development projects in New York such as Riverside South and Queens West

LAURA STARR, ASLA, LEED AP
Partner

Education
BA, Architecture Washington University
MLA, University of Pennsylvania

Registration
Landscape Architecture, New York and New Jersey

Professional Organizations/Affiliations
American Society of Landscape Architects
Institute for Urban Design
New York New Visions
National Association for Olmsted Parks

Awards
ASLA NY Chapter Honor Award
ASLA Merit Award for Design
The Waterfront Center's Excellence on the Water Award
Rudy Bruner Award for Urban Excellence
Parks Council Philip N. Winslow Award
Victorian Society Award
New York City Landmarks Preservation Award

Publications/Speaking:
"Green Building, Urban Nature Conference", Jerusalem, Lead Presenter, 2010
"Waterfront and Open Space needs for Lower Manhattan after the Attacks of 9/11", RDOT, 2001
"Central Park as and Example of Public/Private Partnerships", Friends of Lincoln and Grant Parks, Chicago, 2000
"The Future of Historic Central Park," Plenary speaker, International Sonsbeek Symposium, Arnhem, the Netherlands, 1999
"Turning the Circle: Help Design Frederick Douglass Circle: An Exhibition of the Community Process", Landscape Architecture Magazine, November, 1995
"By Design", Metropolis, November, 1996
"Laura Starr Rebuilding the City", Landscape Architecture Magazine, May 1995
"Meer Beauty", New York Magazine, December 19-26, 1994
"Cavorting", The New Yorker, September 6, 1992

Professional Experience

Landscape Architect Laura Starr, with partner Stephen Whitehouse, formed Starr Whitehouse out of a desire to focus her professional commitment to making places more livable, green, and vibrant. Ms. Starr served as Chief of Design for Central Park during the most active years of the park's reconstruction. Overseeing the renovation of the major destinations such as Harlem Meer, the park's West Side, the Great Lawn, and numerous entrances and playgrounds gave Ms. Starr first-hand experience working with public private partnerships as mechanisms for funding, building, and maintaining high quality public spaces. Her leadership as an expert consultant for park design, planning, and management has been recognized nationally and internationally. Most recently, Ms. Starr has been involved in the organization of, and participation in, international planning workshops for Park Ariel Sharon, a reclaimed landfill, in Tel Aviv.

As a former principal of Saratoga Associates, Ms. Starr directed work in the Battery, including the Upper Promenade, the Bikeway, and Perimeter Landscape in design, and the Bosque, which has received numerous awards. Other notable projects include the Lion's Court on the campus of Columbia University and two residential courtyards in an award-winning project at Front Street in the South Street Seaport.

Representative Projects

The Bosque in the Battery Design and Construction, New York, NY
Gowanus Green Site Design, Brooklyn, NY
Brooklyn Academy of Music (BAM) Roof Terrace, Brooklyn, NY
NYC EDC Randall's Island Hell Gate Pathway, New York, NY
The Battery Perimeter and Bikeway, New York, NY
Connect the Parks, Paulus Hook Waterfront Park, Jersey City, NJ
Park Ariel Sharon Program Masterplan for 2000-acre Park, Tel Aviv, Israel
11 Broadway Residential Tower, Roof Garden and Entry Court, Brooklyn, NY
SUNY Cortland Campus Landscape Design, Courtland, NY
United Nations International School Roof Garden and Entrance, New York, NY
Columbia University Lion's Court Design, New York, NY
San Remo Garden, New York, NY
Rebuilding of the Upper Promenade, The Battery, New York, NY
Times Square Alliance, Urban Design coordination and event infrastructure, NY
Flushing Pedestrian Projects Design and Construction Documents, Flushing, NY
Crotona Park Master Plan with the Cityscape Institute, Bronx, NY
As Chief of Design for the Central Park Conservancy, initiated and directed design for projects such as the restoration of the Great Lawn, North Meadow Ballfields, Merchants' Gate, the Harlem Meer and initiated the Help Frederick Douglass Circle design process.

STARR WHITEHOUSE
Landscape Architects
and Planners PLLC

JEFFREY S. POOR, RLA, ASLA, LEED AP

Studio Director

Education
Bachelor of Arts
Amherst College, 1982

Master of Landscape Architecture
University of Pennsylvania
Graduate School of Fine Arts, 1990

Registration
Landscape Architecture, New York

Professional Organizations/Affiliations
American Society of Landscape Architects

Honors and Awards
ASLA NY, Honor Award, Battery Bosque 2006

Waterfront Center, Award of Excellence, Battery Bosque 2006

Municipal Arts Society Preservation Award

DeKalb Branch, Library Reading Garden

Parks Council Special Commendation, Merchants' Gate Plaza, Central Park

NYASLA Upstate Chapter Awards 2008
Open Space Plan & Technology Quadrangle- Rensselaer Polytechnic Institute won Honor of Excellence Award for Unbuilt Design

NYASLA Chapter Awards 2008
Oyster Bay Railroad Museum Plaza won Merit Award for Unbuilt Projects

Professional Experience

Jeff Poor brings more than 18 years of experience in the design and creation of sustainable and compelling landscapes to Starr Whitehouse. His completed work spans a wide range of project types, from public park to urban plaza design, campus planning to garden design, for both public and private sectors. He has worked on numerous projects with sustainability initiatives, and is familiar with LEED certification protocols. Jeff is also experienced with the requirements of the design process for public, commercial and institutional projects, private residences and playground design. As Senior Associate and Studio Director, Jeff takes the lead role in many of the firm's projects, working with the client and project team to successfully integrate site environmental and architectural considerations throughout all phases and levels of the project resulting in a successful landscape design project.

Representative Projects:

Bushwick Inlet Park on the East River Shore of Williamsburg, Brooklyn, NY
Gowanus Green Waterfront Park, Brooklyn, NY
Starlight Park/ Green Riverhouse, Bronx, NY
Brooklyn Academy of Music (BAM) Roof Terrace, Brooklyn, NY
United Nations International School Site Design, New York, NY
SUNY Cortland Campus Landscape Design, Courtland, NY
NYC EDC Randall's Island Hell Gate Pathway, New York, NY
Paulus Hook Waterfront Park, Jersey City, NJ
The Battery Perimeter, New York, NY
Battery Playspace, New York, NY
Oyster Bay RR Museum Plaza Design, Oyster Bay, NY*
Hutchinson River Parkway Bike Path, NYC Department of Parks & Recreation*
Manhattan Bridge Plaza Design, Brooklyn, NY*
Morningside Gardens Master Plan & Schematic Design, New York, NY*
East 81st Street Pedestrian Bridge Landscape Design, New York, NY*
Remsen Street DEP Maintenance Facility, Brooklyn, NY*
The Bosque in the Battery, New York, NY*
Bronx River Walk, Wildlife Conservation Society, Bronx, NY*
Columbia University President's Garden, New York, NY*
Canterbury School New Dormitory Site Design, New Milford, CT*
RPI EMPAC Plaza and Site Design, Troy, NY*
RPI Open Space Master Plan, Troy, NY*
Hamilton College, South Campus Master Plan, Clinton, NY*
Hamilton College, Kirner Johnson Addition Plaza Design, Clinton, NY*
Vietnam Veterans Plaza, New York, NY*
Madison Square Park Schematic Design, New York, NY*
Merchants Gate Plaza Design, Central Park, New York, NY*
North Meadow Ballfields, Central Park, New York, NY*
West 96th Street Playground, Central Park, New York, NY*

** Work completed prior to joining Starr Whitehouse*

SERENA NELSON
Landscape Designer

Education
Master of Landscape Architecture,
University of Virginia, 2009

Master of Architecture,
University of Virginia, 2009

Bachelor of Arts in Architecture,
University of Virginia, 2003

Activities and Awards
Kenan Fellow, Merit Scholarship and
Teaching Appointment, 2006-Present

Raven Fellow, Raven Honor Society
University of Virginia

Public Service Fellow for the Building
Goodness Foundation, Charlottesville, VA

Thaler Fellow, Merit and Design
Scholarship for travel to Europe

VA ASLA Honor Awards, Design and
Communications Categories, 2009

Contributing Author, Lunch, UVa School of
Architecture Journal

Professional Experience

Serena earned dual masters degrees in architecture and landscape architecture from the University of Virginia. As a Kenan Fellow, Serena has lectured on independant research of the Miller House and Garden as a intersection of architecture and landscape architecture in the collaboration between Dan Kiley and Eero Saarinen.
Prior to graduate school, she worked for three years in the office of Nelson Byrd Woltz Landscape Architects where she worked on a variety of institutional and residential projects focusing on design that elevates site history and celebrates local ecologies. Her graduate work has explored the intersection of design and the public realm, from the scale of the urban street to landscape as human and ecological infrastructure.

Representative Projects:

Brooklyn Queens Expressway Enhancement Study, Brooklyn, NY
Jersey City Municipal Service Center, Jersey City, NJ
Brooklyn Academy of Music (BAM) Fisher Roof Terrace, Brooklyn, NY
San Remo Gardens, New York, NY
Richmond Health Center, Staten Island, NY
Edenwald Branch Library, Bronx, NY
As a summer intern at Peter Walker + Partners,
- Newport Beach Parkt at City Hall
- Glenstone Museum

As a Landscape Designer at Nelson Byrd Woltz LA, PLLC,
- Cahill Residence, Montauk, NY
- The Friends School, New York, NY
- Yoga Terrace, New York, NY
- Smithsonian National Zoo, Washington DC
- Landscape Additions, UVA School of Architecture, Charlottesville, VA

STARR WHITEHOUSE
Landscape Architects
and Planners PLLC

PAUL APPLETON
Landscape Designer

Education

Graduate Diploma in Landscape Architecture (with Distinction), Queensland University of Technology, Austrialia, 2009

Bachelor of Built Environment (Majoring in Landscape Architecture) Queensland University of Technology, Austrialia, 2003

Activities and Awards

Tutor of First Year Design Students at Queensland University of Technology

Included in the University Deans List for academic excellence in final semester, 2009

Final Portfolio published as part of University 'Discover Design' project.

Professional Experience:

Paul has worked in the Landscape Architecture field in Europe, Australia and now, North America. His approach to design responds to peoples need for contact with the outdoors and the natural world. This drives his focus towards sustainable design in the creation of well detailed and ultimately well used spaces for people within the larger ecosystem.

Representative Projects:

Brooklyn Queens Expressway Enhancement Study, Brooklyn, NY
Cary Leeds Tennis Center, Crotona Park, Bronx, NY
Hudson Square Competition Green Roof, Terrace, and Courtyards, Queens, NY
11 Broadway Mixed-Use Building Terrace and Courtyard, Brooklyn, NY

As a Landscape Designer at Gamblem McKinnon Green in Brisbane, Australia
- MIRVAC Brisbane concept for residential tower complex
- Queens Park Master Plan, Mackay, Australia
- Wyandra Street concept landscape package for high-rise residence
- Ann Street design of rooftop terrace for high-rise apartment
- BER Government Schools Projects landscape concepts

As a Landscape Designer at Landpartners Limited
- Hampstead Common, Edible streetscape concept in the public realm
- Villanova College, Brisbane, Australia
- Springfield Parks - an audit and review of 30 built parks
- Wave - Montague Rd - context plan, involvement in landscape and green roofs design approved D.A.
- Palm Jebel Ali - Dubai - collaborative design for rooftop landscape
- Bowen Hills Master Plan, ULDA - Team developed overall master plan

As a Landscaper Designer and Contractor at PEDROLowe, Mallorca, Spain.
- The conversion of a hotel into a luxury home and grounds.

As Landscape Architecture Student position at Noth Tyneside Council, England.
- Cliffords Fort National Historic Monument
- Christcurch Primary School

STARR WHITEHOUSE
Landscape Architects
and Planners PLLC

MELON WEDICK
Planner

Education
Master of Urban Planning University of Michigan, 2008
Concentration in Physical Planning & Urban Design

Bachelor of Arts Oberlin College, 2000
Majors: Theatre, Philosophy.

Activities and Awards
Phi Kappa Phi 2008

Academic Acheivement Award, Taubman College of Architecture and Urban Planning, 2008

University of Michigan Alumni Board Scholarship, 2006

Professional Experience

A native of Connecticut, Melon earned her Masters in Urban and Regional Planning from the University of Michigan, where she graduated first in her class. As a Regional Planner and then Senior Planner/Assistant Director with the Central Connecticut Regional Planning Agency, she received an immersive introduction to transportation planning and policy at the MPO level, and worked on a wide array of special projects, including: route planning for the Farmington Canal Heritage Trail in Plainville (a segment of the East Coast Greenway), preparation of the region's Natural Hazard Mitigation Plan, work on the region's Comprehensive Economic Development Strategy, management of three Citizen Emergency Response Teams, and preparation of the Terryville Safe Routes to School Master Plan, which is included as an example plan on the walkitbikeitct website. Her GIS work for the Safe Routes plan earned the recognition of the Connecticut GIS Council and received an honorable mention as part of the State's GIS day in 2009.

Melon's capstone project at the Univeristy of Michigan, "City as a Model of Sustainability," explored application of a multidimensional concept of sustainability (embracing economic, social, and ecological sustainability) to a disinvested, largely abandoned section of Detroit.

In her previous career as a theater professional, Melon garnered extensive project management experience through work as a production and stage manager on dozens of projects, including several festivals of short works and an international tour.

Representative Projects:

At Starr Whitehouse:
BQE Enhancement Study

At Central Connecticut Regional Planning Agency:
Safe Routes to School Master Plan, Plymouth CT: Project Planner & Author; plan won $430,000 infrastructure funding from the State DOT.
Natural Hazard Mitigation Plan: Project Planner & Author
Farmington Canal Heritage Trail: Project Planner & Author
Community Emergency Response Teams (CERT): Regional Coordinator
Transportation Planning: UPWP, Title VI reports, etc.

Truman Waterfront Upland Improvements Design and Construction Administration
Project Experience Summary

Projects	Waterfront Parks	Parks	Public Plazas and Walks	Museums	Military Property Redevelopment	Multi-Use Recreation Areas	Redevelopment of Former Naval Facilities	Military Property Redevelopment	Waterfront Areas	Historic Waterfront Areas	Waterfront Design upland parks and boating uses	Green projects	Alternative supplemental energy sources	Green building/construction certifications	Multi-use facilities including festival/market spaces	Amphitheatres	Event Plazas	Multimodal transportation centers	1 & 2 story multi-use office, institutional, and retail	Residential or residential/commercial mix	Defensible/safe space design	Public awareness and Input
Sunset Lakes Municipal Complex		x				x																
Pompano Community Park		x	x			x										x	x					
Town of Lantana Municipal Beach Complex	x	x	x						x						x	x	x					x
Miramar Town Center Landscape Architecture			x												x		x	x	x	x	x	
Marathon City Hall & Events Field	x	x	x						x								x					x
Mills Pond Park		x	x			x					x											x
Founders Park		x				x																
North Beach Pavilion	x	x	x						x													
Windmill Park		x				x																
Florence Hardy Park		x	x			x																
Harbors Edge Park	x	x							x													
New Orleans Redevelopment Plan		x	x			x			x	x												x
City Of Miami DDA Downtown Master Plan Update	x	x	x						x			x			x			x			x	x
Downtown West Palm Beach Urban Regulations	x	x	x						x			x					x					x
Midtown Miami Master Plan & Master Architecture		x	x							x								x	x	x		x
Miami Beach Convention Center District Redevelopment Plan	x	x	x	x					x	x								x				x
Gibson Park		x				x											x					x
Little Haiti Cultural Campus			x	x		x						x			x		x					x
Governor's Island	x	x			x	x		x	x													
Harlem River	x	x				x			x	x	x	x					x				x	x
Bushwick	x	x				x			x			x	x	x							x	x
Battery Bosque	x	x				x			x	x	x	x	x		x		x				x	
Paulus Hook	x	x				x			x	x							x					x
Bronx Riverhouse	x	x							x		x	x	x	x			x				x	
Central Park Great Lawn	x	x				x						x			x	x					x	x
Anglers Club																				x		
City of Marathon Master Stormwater System																						
Hawk's Cay Resort									x		x									x		
City of Punta Gorda Harborwalk	x	x							x		x											
The Boat House And Coral Lagoon Resort									x		x											
Tranquility Bay Resort									x													
Tropical Plantation Preserve Park Improvements	x	x							x		x											
Indigo Reef Resort									x											x		
Parrot Key Resort									x											x		
Sombrero Beach Dune Restoration	x	x																				
Old Island Marina & Boatyard									x													
City of Madeira Beach Municipal Marina Redevelopment									x													
Long Key State Park	x	x							x													
Comprehensive Coastal Services City of Boca Raton	x	x							x		x											
Shoreline Protection and Enhancement Twin Rivers Park	x	x							x													
City of Cocoa Waterfront Redevelopment									x													x
Indian River Marina Delaware Seashore State Park	x	x							x		x											
Rodney Bay Marina Island Global Yachting St. Lucia									x													
Truman Waterfront New Stock Island Properties	x	x						x	x		x											

Town of Lantana Municipal Beach Complex

Town of Lantana, FL

Keith and Schnars provided park master planning services for the Town of Lantana for a much - used and loved public beach facility revitalization to meet the growing needs of its people. Services provided included the programming, survey, analysis and evaluation of current site and facilities conditions; citizens and park user's survey, public meetings; coordination with the Florida Department of Environmental Protection, Town of Lantana officials and staff; drainage improvement recommendations, opinion of implementation cost, concepts, preliminary and final master plan. The Final Park Master Plan for the Lantana Municipal Beach Complex evolved and developed through consensus into a natural retreat that will suit a variety of visitors - from those interested in sand and surf activities, to those looking for a peaceful retreat to picnic in a native, wooded setting. Featuring several unique recreational venues including nature walk areas, a children's playground, a sand volleyball area, a tree-lined pedestrian and bicycle promenade, drop off area, site amenities, decorative hardscape, native seashore and dune vegetation, open lawn areas, picnic shelters for large and small groups, as well as the open beach along the beautiful, blue Atlantic Ocean - this environmentally-friendly and sustainable park will certainly be enjoyed by all.

Client: Town of Lantana
Contact: Mike Greenstein, Parks and Recreation Manager
Address: 510 West Pine Street, Lantana, FL 33462
Phone: (561) 540-5766
Completion Date: 2007
Construction Budget: $3,935,000
Consultant Fees: $73,700

Miramar Town Center

Miramar, FL

The Miramar Town Center is designed as an idyllic traditional downtown with pedestrian oriented streets, beautiful Mediterranean style architecture, "main street" store fronts and waterfront views as found in the best historic towns of Florida. The town center allows for a gracious lifestyle where everything is within walking distance. Site amenities include a plaza, fountain, site furniture, decorative pavers, planters, tree grates, and landscape lighting. Keith and Schnars provided firm wide services for this project from master site plans to construction observation. These services included site, water and sewer, paving and grading, site amenities, hardscape, and landscape plans; surveying, site plan processing and permitting related services.

Client: CKC Ltd. /Centex Rooney for the City of Miramar
Contact: Cotter Christian
Address: 1000 South Pine Island Road, Suite 400, Plantation, FL 33324
Phone: (954) 452-9100, (954) 370-6574 fax
Start Date: 2002
Completion Date: 2005
Design Fees: $309,350
Construction Fees: $5,000,000

FOUNDERS PARK

Aventura, FL

Keith and Schnars, along with a team of subconsultants, developed the master plan for Founders Park. The design phase then included civil, architectural, landscape architectural and electrical disciplines. Permitting and construction cost was approximately $1.9 million. The park is split into an active area on the north and a passive area on the south. The active area features clay tennis courts, a jogging path, a multipurpose baseball/softball/soccer field, a playground area, sun shelters, exercise stations, and a rest room/office building. The passive area of the park provides an open lawn area with benches, jogging path and rest room facilities.

Keith and Schnars' services included the design of the paving, grading, drainage, water and sewer elements, coordination with subconsultants, preparation of construction drawings, permitting, administering the bid process and performing construction inspection.

Client: City of Aventura, FL
Contact: Eric M. Soroka, City Manager
Phone Numbers: (305) 466-8900
Completion Date: 2000
Fees: $1.9 million

Florence Hardy Park
Fort Lauderdale, FL

Keith and Schnars prepared the Master Plan for Florence Hardy Park for the City of Fort Lauderdale including the addition of the Historic South Side School Property for the proposed $8.9 million renovation.

The proposed Master Plan included greenway trail, pedestrian gateway features, a half mile pervious pedestrian trail, skate amenities, volleyball court, basketball courts, tennis court practice walls/handball courts, pavilions, a gazebo, a tot lot, a playground, renovations to the distinctive and original lawn bowling and croquet field, a native garden, trellis seating areas, a recreation center, decorative pavement and parking lot additions.

Plans, renderings and cost estimates were also prepared to assist in grant requirements and successful acquisition.

Client: City of Fort Lauderdale
Contact: Kathy Conner, Park Planner
Address: 350 West Broward Boulevard, Fort Lauderdale, FL 33312
Phone: (954) 786-4144
Completion Date: 2004
Fees: $9,720

Windmill Park and George S. Gerber Park

Coconut Creek, FL

These community parks with over a $4 million construction budget were part of a renovation of 3 community parks. Our services included master planning, site design, landscape, irrigation and parking design, construction inspection and administration as well as overall project coordination. Park elements included active/passive recreation areas, bike, jogging and nature trails, picnic areas, playgrounds, ball fields, court games, entrance and park signage, wetland mitigation lakes and multi-purpose buildings.

Client: City of Coconut Creek
Contact: Scott Sundermeier
Address: 4860 West Copans Road, Coconut Creek, FL 33063
Phone: (954) 973-4600
Team Positions: Principal-in-Charge – Michael L. Davis; Landscape – Bruce Reed, RLA, Michael Oliver, RLA, James Anderson, RLA, Chris Miller, LEED AP; Planning – James Kahn, AICP; Environmental – Kristine Stewart, Ph.D.

Pompano Community Park

Pompano Beach, FL

This park was part of a reconstruction of four municipal parks and a naturalized coastal park on the Intracoastal Waterway. Amenities include a 2,500-seat amphitheater, park pavilion, two lakes, bike paths, playgrounds, court games and ball fields, recreation lighting, signage, fitness coursed, landscape and irrigation designed with reclaimed water. Services included site planning, landscape and irrigation design, park element design, permitting, costing, specifications, bidding, construction observation and contract administration.

Client: City of Pompano Beach
Contact: Brett Butler
Address: P.O. Drawer 1300, Pompano Beach, FL 33060
Phone: (954) 973-4600

SUNSET LAKES MUNICIPAL COMPLEX

City of Miramar, FL

The Keith and Schnars team provided Landscape Architecture, Planning, Civil Engineering, Surveying and Construction management services for this 24-acre Municipal complex/recreation center project. Services included master planning through bid documents and inspection services. An original master plan was developed working with the Parks and Recreational staff to include a gymnasium, soccer fields, roller hockey rinks, a fire station, a police station and jogging paths. During the site plan approval process of Phase I the city's needs drastically changed. Along with the program change, the city also turned the project into a design-build. Keith and Schnars was retained by the contractor for all the professional services listed above. The major program change included a community center replacing the gymnasium, enlarging the playground and removing the roller hockey rink and sports field. A close working relationship with the City of Miramar was required to ensure that the project met their needs. Keith and Schnars was responsible for the design of the master plan, site plan, irrigation, planting, potable water system, gravity sanitary sewer system, drainage system, paving and grading.

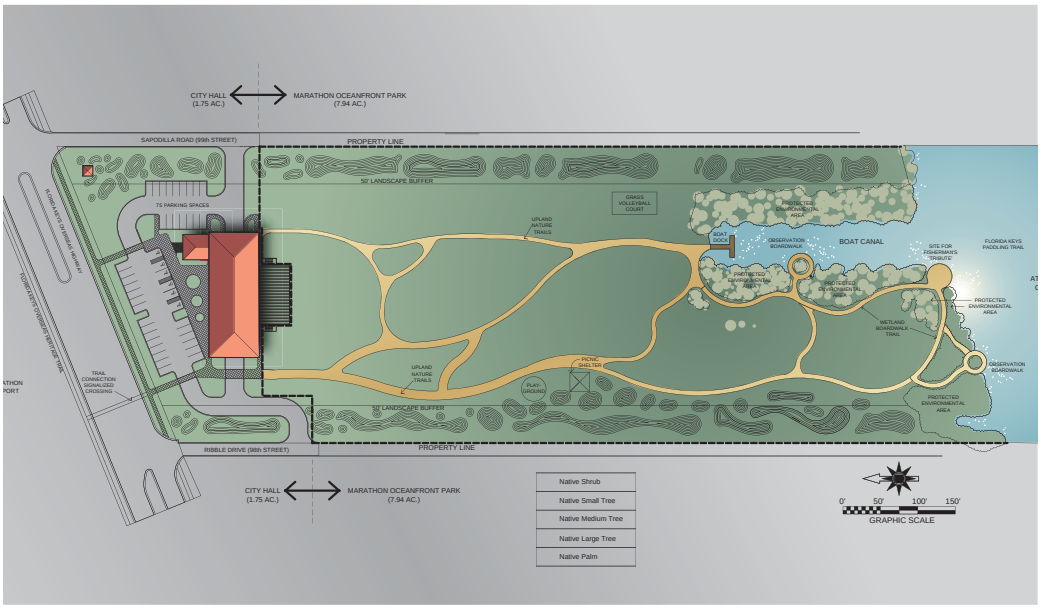
Irrigation design included a 20 horse power pump using well water. The system was designed to incorporate future facilities.

Client: City of Miramar
Contact: Henry Talton, P.E.
Address: 6700 Miramar Parkway, Miramar, FL 33023
Phone: (954) 364-2114
Start Date: November 2001
Completion Date: October 2003
Fees: $110,000

MILLS POND PARK
Fort Lauderdale, FL

A 128-acre active/passive park and recreation facility with four soccer and five softball fields, boating and swimming facilities, amphitheater and ancillary buildings, jogging paths and nature trails with boardwalk and bridge, access roads and other amenities, wetland mitigation and grant research. Services included site planning, landscape and irrigation design, park element design, boardwalk and native trail design.

Client: City of Fort Lauderdale
Completion Date: 1991



Marathon Events Field and City Hall
Marathon, FL

Keith and Schnars, P.A. is provided professional services associated with design and the development of a design-build package for Marathon City Hall and Events Field. These services include: site plan approval, design criteria performance specifications, geotechnical testing and assistance with the design/build selection process.

The final plan for the Event Field and City Hall layout, designed by Keith and Schnars, addresses issues raised by the community during a very productive and successful workshop held early in February 2004 and also incorporates City Council and staff comments on the proposed project. Council adopted the conceptual plan and agreed to a phased approach to the development of the site in order to have the Field ready for the March 2005 Seafood Festival.

Phase I included enhanced landscaping berms, tree relocation/mitigation and development of an open grass field. Phase II proposed the city hall building, the walkways and other site improvements.

Portions of the 98/99th Street site contain both wetlands and native vegetation. The environmental conditions of the site required permitting and coordination with various agencies, including Army Corps of Engineers (ACOE), the Department of Environmental Protection (DEP), South Florida Water Management District (SFWMD), Florida Department of Transportation (FDOT) and the State Fish and Wildlife Service (FWS) prior to any development of the property.

Additionally, Keith and Schnars provided surveying the site to determine property boundaries, flood zones, the mean high water line; and to measure and map the ground elevations and features, including the wetlands areas and native trees over three inches in diameter, indicating their relative positions. Keith and Schnars staff compiled the information obtained during the site investigation and prepared a boundary survey, indicating flood zones and the mean high water line; a topographic survey that includes the wetland and native trees; and a habitat analysis evaluating the site's current environmental conditions.

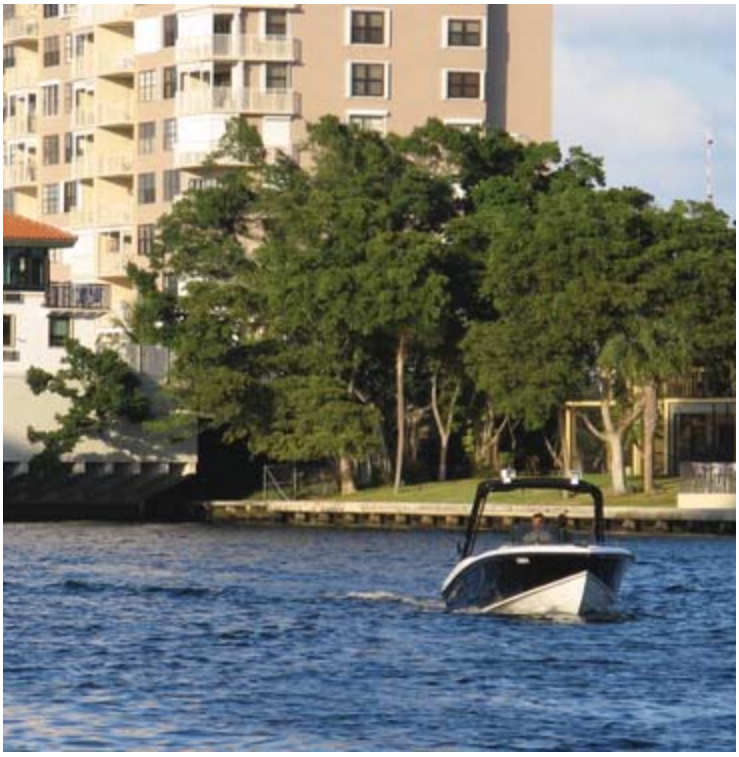
Client: City of Marathon
Contact: Susan Thomas, Community Services Director
Address: 10045-55 Overseas Highway, Marathon, Florida 33050
Phone: (305) 743-0033
Email: thomass@ci.marathon.fl.us
Start Date: January 2004
Completion Date: February 2005

NORTH BEACH PAVILION

Deerfield Beach, FL

Design, permitting, construction drawings and specifications, permitting, bidding and contract administration for Beach pavilion & restroom facility. This project incorporated a new pavilion, restrooms, a paver plaza deck, drinking fountain and showers. Pedestrian beach access is provided through the hardscape plaza. Permitting included the Florida Department of Environmental Protection Coastal Construction Control Line as well as the City of Deerfield Beach Building Department.

Client: City of Deerfield Beach
Contact: Larry Deetjen
Address: 150 NE 2nd Avenue, Deerfield Beach, FL, 33441-3598
Phone: (954) 480-4200
Start Date: August 1996
Completion Date: February 1998
Fees: $38,000



HARBOR'S EDGE PARK

Pompano Beach, FL

Keith and Schnars provided landscape architectural and engineering design for this new passive park on the Intracoastal Waterway. The park was funded by the Florida Inland Navigation District. Amenities emphasized the natural setting with a walking/jogging path, an exercise station, seating areas along the Intracoastal, and native vegetation. Shoreline restoration included riprap and mangrove plantings. Services included site planning and engineering, design of all park elements, permitting, cost estimating, construction specifications, bid processing, construction observation and contract administration.

Client: City of Pompano Beach
Contact: Brett Butler
Address: City of Pompano Beach, P.O. Drawer 1300, Pompano Beach, FL 33060
Phone: (954) 786-4600
Completion Date: 2000

RELEVANT EXPERIENCE

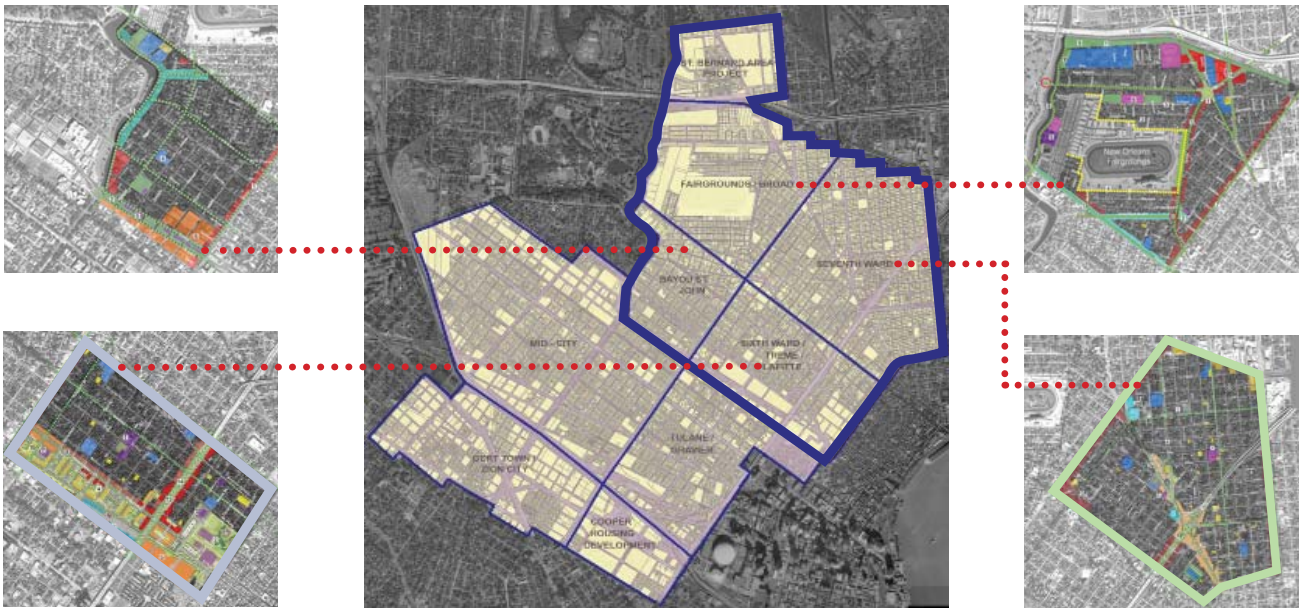
New Orleans Redevelopment Plan, New Orleans, LA

Zyscovich was commissioned by the City Council of the City of New Orleans to prepare a reconstruction plan for 5 neighborhoods adjacent to the French Quarter. The three primary goals of the plan are to establish consensus among historically divided neighborhoods, return a sense of normalcy as quickly as possible, and to create a plan that addresses the overall deterioration which pre-existed Katrina. The final plan will be the basis for the receipt of Federal funding, and was a result of an intensive public involvement effort.

THE FINAL PLAN INCLUDED THE FOLLOWING ELEMENTS:

- A network of green spaces and linear parks.
- Creating a dialogue with the community through public meetings and committees.
- Methodologies for enhancing local neighborhood pride while transcending the differences to achieve shared opportunities.
- Creating networks that tie into the tourist economy.

New Orleans Redevelopment Plan, New Orleans, LA



CLIENT

Lambert Advisory, LLC
Paul Lambert,
Managing Principal
2601 South Bayshore Drive
Suite 300B
Miami, FL 33133
t 305.860.3715

KEY PERSONNEL

Bernard Zyscovich
Suria Yaffar

DESIGN FEE

$105K

CONSTRUCTION COST

N/A

CONTRACTOR

N/A

CONTRACT AMOUNT

N/A

RELEVANT EXPERIENCE

City of Miami DDA Downtown Master Plan Update, Miami, Florida

Zyscovich was hired by the Downtown Development Authority ("DDA") to work in collaboration with the City of Miami and the Miami 21 Initiative to develop an updated master plan for downtown Miami – an area encompassing over 250 city blocks and consisting of numerous distinct neighborhoods.

The update of the Downtown Miami Master Plan is a further opportunity to create a "road map" that merges urbanism and architecture with market, economic, social, and service issues. It will set forth overall and district development strategies, and establish guidelines for future development, as well as requirements for improving and enhancing the public realm including:

- Developing strategies to expand waterfront parks
- Establishing a Public Realm conceptual plan
- Recommending innovative storm water improvements and sustainable urban concepts
- Coordinating with focus groups for retail, hotel, residential, and office uses
- Establishing a framework to coordinate new development with public realm improvements

City of Miami DDA Downtown Master Plan Update, Miami, Florida

- Establishing a market-based rationale for revitalization
- Working with the transportation consultant to address development potentials

Connectivity throughout downtown Miami is impeded by the elevated portion of the I-95 highway system which casts large shadows and creates unpleasant spaces for walking. As part of a master plan for Downtown Miami, Zyscovich assessed the opportunity to convert the areas beneath these spaces into larger waterfront parks to both connect back to the river and to serve as a modern waterworks to intercepts stormwater for reuse in irrigation and to return water to the aquifer through exfiltration.

CLIENT

Miami Dowtown Development Authority
Dana A. Nottingham
(Former Exec. Director)

Nottingham Solutions Address:
1448 E. Pembroke Avenue
Hampton, VA 23363

DDA Address:
200 South Biscayne Blvd. Suite 2929
Wachovia Financial Center
Miami, FL 33131
c 757.722.0453

KEY PERSONNEL

Bernard Zyscovich
Suria Yaffar
Trenton Baughn

DESIGN FEE

$590K

CONSTRUCTION COST

N/A

CONTRACTOR

N/A

CONTRACT AMOUNT

N/A

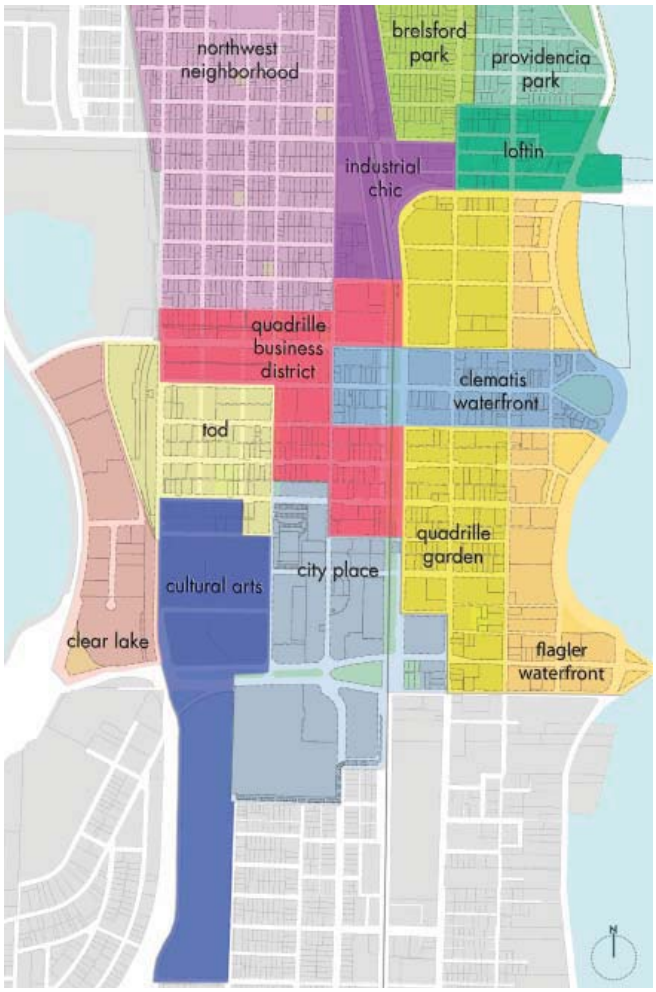
RELEVANT EXPERIENCE

Downtown West Palm Beach Urban Regulations, West Palm Beach, Florida

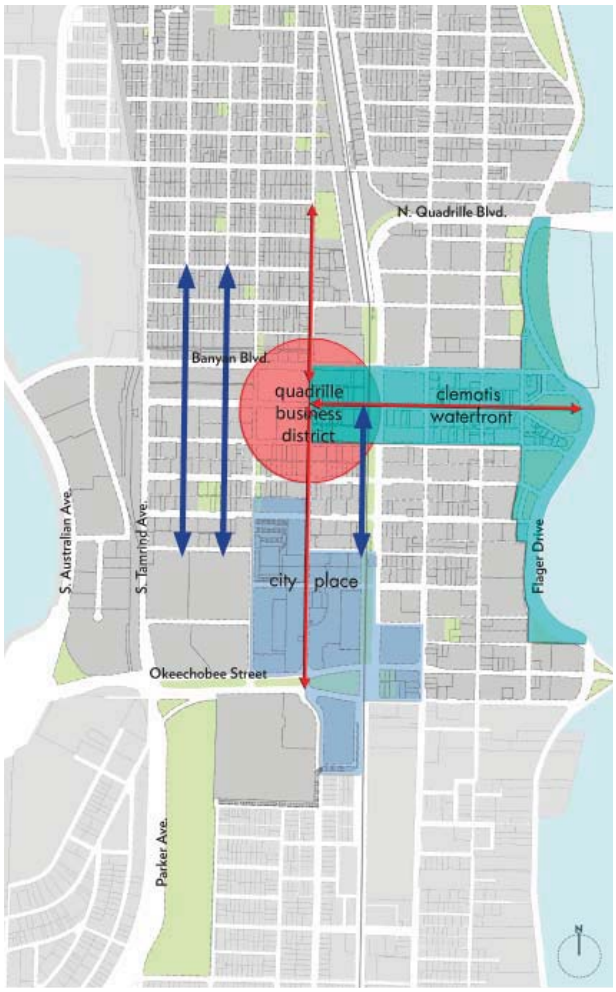
The Downtown West Palm Beach Master Plan Update and Urban Regulations provided a new community driven Vision for updating and expanding the downtown core. Poor connections to surrounding neighborhoods, a code which did not work well, few parks and plazas, a surplus of vacant land, and a weak downtown presence, resulted in a fragmented and under-performing downtown. Zyscovich worked with an economic consultant, a City appointed Advisory Board, community stakeholders and the business community to investigate the major planning and design potentials. The final plan uses new streets, paths, and 13 districts to connect adjacent residential communities to downtown amenities with special attention to building design, use, and massing to create comfortable spaces for people. It includes a downtown-wide parking strategy and design vision for parking structures, a housing strategy for a variety of housing densities and types, and a new financial center to anchor downtown and connect its two retail districts. Many of these initiatives are achieved with development incentives which allow height and floor area to be transferred between properties. The Vision was then transformed into code and incorporated into the City's Comprehensive Plan through text amendments to the Future Land Use Element. The most significant outcomes included:

- Creating standards for a system of plazas and open spaces;
- Determining a new hierarchy of streets and building requirements based on their primary function--to move cars or pedestrians--and their character;
- Developing design standards for new buildings and parking structures;
- Developing a final build-out scenario.

Downtown West Palm Beach Urban Regulations, West Palm Beach, Florida



New land development regulations reorganize the downtown as 13 distinct character districts



A new business district reconnects the two competing retail centers and the surrounding neighborhoods

CLIENT

City of West Palm Beach
Ana Maria Aponte
401 Clematis Street
West Palm Beach, FL 33401
t 561.822.1439
f 561.822.1460
e aaponte@wpb.org

KEY PERSONNEL

Bernard Zyscovich
Suria Yaffar
Melissa Hege
Trenton Baughn

DESIGN FEE

$590K

CONSTRUCTION COST

N/A

CONTRACTOR

N/A

CONTRACT AMOUNT

N/A

RELEVANT EXPERIENCE

Midtown Miami Master Plan & Master Architecture, Miami, Florida

This vacant, 56-acre site, which was used by the Port of Miami as a staging facility for truck containers was identified as an opportunity to reintegrate the city street grid and create a mixed-use district for the surrounding neighborhood. As the site's master planners and master architects, the team partnered with the City of Miami to change the land use from Industrial to Restricted Commercial and create Special District Zoning and Design Guidelines.

Our design team wanted to create a place for people; one that had a clear and distinct identity and was both memorable and recognizable. This image emerged from the characteristics of the surrounding neighborhoods which include small city blocks, artist studios in converted industrial spaces, design related products in small and historic buildings, historic homes and warehouses, and Haitian and African American neighborhoods. The final master plan merged five different design elements to achieve this vision:

Connectivity: The vacant parcel was subdivided into city blocks which align with the adjacent streets and surrounding parcels. In addition, the streets in this walkable mixed-use neighborhood are designed for pedestrians and vehicles to co-exist.

Streetscape and Street Hierarchy: The street sections were designed according to a hierarchy of how streets would be used. The street designation dictates the type and intensity of uses and organizes how the new neighborhood functions.

Open space: A large park in the center of the neighborhood provides balance to the intense development. Other open space requirements ensure that there are plazas and gathering spaces throughout the neighborhood.

Building Design: Buildings have been designed by different architects rather a master architect to add variety. In addition, zoning mandates specific articulation for single buildings with full block footprints be subdivided into

Midtown Miami Master Plan & Master Architecture, Miami, Florida

separate volumes to break down the building massing while parking and loading is concealed from the street.

Transit: The neighborhood was developed with a transit line and station within the central park/plaza. The line will connect the FEC neighborhoods to the downtown.

IMPLEMENTATION RESULTS:

- Master plan increased the value of the site from $9 million to $35 million.
- Over 50 percent of the site is under development or nearing completion.
- Every parcel has taken advantage of the FAR incentives.
- Created a substantial fund to develop quality of life improvements.
- A transportation plaza will incorporate a trolley into Downtown Miami.

CLIENT

Sam Develop
Deborah Samuel
3401 N. Miami Avenue
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Miami, FL 33127
t 305.757.0001 x273
Deborah@samdevelop.com

KEY PERSONNEL

Bernard Zyscovich
Suria Yaffar
Trenton Baughn
Melissa Hege

DESIGN FEE

$275K - Master Plan

CONSTRUCTION COST

Various

CONTRACTOR

Various

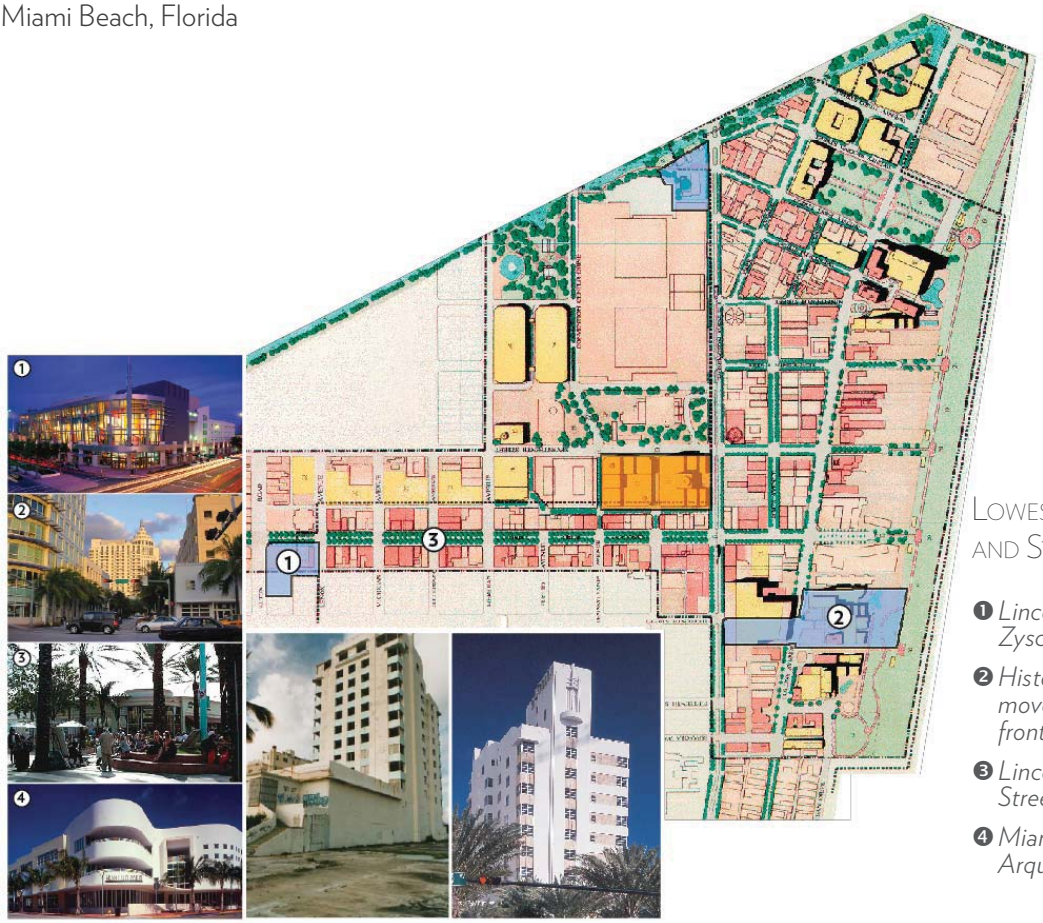
CONTRACT AMOUNT

$213 Million

RELEVANT EXPERIENCE

Miami Beach Convention Center District Redevelopment Plan,

Miami Beach, Florida



Lowes Convention Hotel and St. Moritz Hotel

❶ *Lincoln Road Cinema by Zyscovich*

❷ *Historic structures saved and moved; street open to ocean front Loews Hotel*

❸ *Lincoln Road Pedestrian Retail Street*

❹ *Miami City Ballet by Arquitectonica*

In the early 1990s, South Miami Beach was in desperate need of investment and creativity. What began as negotiations between a grassroots community group seeking to preserve a small group of 1950s hotels and the City's Mayor who wanted to develop a convention hotel on publicly owned land, launched this small district into one of the more popular tourist markets in the world. As part of the team developing the hotel project, Zyscovich prepared the district's master plan and CRA plan. Ten years later, Zyscovich was hired to update the master plan.

The plan envisioned reconnecting the planned beachfront convention hotel with the existing central retail spines and proposed new cultural facilities with a central park organized around the idea of performance and music. These three efforts together played a major role in revitalizing South Beach culminating in a new public park with an outdoor screen video framed by an expanded New World Symphony building. The park and soundscape was completed in the beginning of 2011 and is a unique and popular venue to view live projection of symphony concerts and movies in an outdoor space. Other outcomes included:

- Construction of the Loews Hotel center complex and specifically design of the St. Moritz hotel and Anchor shops with structured parking
- Design of the 16th Street roadway extension to connect with the convention hotel
- Revitalization of the eastern end of Lincoln Road
- Design and construction of the Lincoln Cinema to anchor the western end of Lincoln Road
- A renewed cultural campus including a Regional Library, Ballet Center, and renovated art museum

Miami Beach Convention Center District Redevelopment Plan, Miami Beach, Florida

ACTION PLAN

Primary Issues

1 Proposed urban park at the 17th St. site
2 New World Symphony Soundspace location
3 Drexel Ave. improvements
4 Convention Center expansion location (bus route changes)
5 Lincoln Rd. extension
6 Elimination of intermodal option & identification of shuttle charging station
7 Pennsylvania Ave. Market & 17th St. Garage modification
8 City Hall expansion

Secondary Issues

9 Buffer zone for the Holocaust Memorial
10 Extension of Espanola Way & Plaza
11 16th St. Improvements
12 17th St. rezoning and beautification
13 21st St Community Center improvements
14 Implementation of Dade Blvd Traffic Circles
15 Phase II expansion of Bass Museum

CLIENT

City of Miami Beach CRA
Kent Bonde
Redevelopment Coordinator
1700 Convention Center Dr.
Miami Beach, FL 33139
t 305.673.7010
e kentbonde@ci.miami-beach.fl.us

KEY PERSONNEL

Bernard Zyscovich
Suria Yaffar

DESIGN FEE

$250,000

CONSTRUCTION COST

N/A

CONTRACTOR

N/A

CONTRACT AMOUNT

N/A

Gibson Park, Miami, FL

Zyscovich was commissioned to prepare a design criteria report for the renovations to Gibson Park. The project includes the renovation of the baseball field and football field, as well as the addition of a new gymnasium, community center, events pavilion, and concession stand. To fulfill the program requirement for a new community center, the project includes the adaptive reuse of the existing library building and a new 20,000 SF sports and activities building. The facilities will include a basketball gym, bowling alley, swimming pool, exercise facilities, weight room, and locker rooms. The design process for the guidelines included conducting a public forum to achieve public consensus regarding the programming and to discuss the phasing options for the project, as many of the facilities are currently in use.

CLIENT

City of Miami
Marcel Douge
444 SW 2nd Avenue
Miami, FL 33130
t 305.416.1245
e mdouge@ci.miami.fl.us

KEY PERSONNEL

Bernard Zyscovich
Suria Yaffar

DESIGN FEE

$188,470

CONSTRUCTION COST

N/A

CONTRACTOR

N/A

CONTRACT AMOUNT

N/A

Little Haiti Cultural Campus, Miami, FL

This project involved the design of a new community theater and community center for the arts. The Campus also includes the renovation of the Caribbean Marketplace on the corner of 59th Terrace and NE 2nd Avenue. The theater building features a 25D-seat front-stage theater with dance and drama rehearsal halls, a green room, set-building area, dressing rooms and event-size lobby. An Art Gallery, Arts and Crafts workshops, a kiln, offices and community meeting rooms comprise the community center building. A large open plaza designed to host outdoor festivals and community events joins the two new buildings. In addition to the planning, architecture, and interior design scope, Zyscovich assisted the client with feasibility studies that affected land acquisitions, presentations and programming meetings for the community, and inclusion of a public solicitation for local art, street and sidewalk improvements to NE 59th Terrace.to NE 59th Terrace.

CLIENT

City of Miami
444 SW 2nd Avenue
Miami, FL 33130

KEY PERSONNEL

Bernard Zyscovich
Suria Yaffar

DESIGN FEE

$1.4 M

CONSTRUCTION COST

N/A

CONTRACTOR

Pirtle Construction Company

CONTRACT AMOUNT

$13.9 M

Indian River Marina

Delaware Department of Natural Resources and Environmental Control (DNREC)
Delaware Seashore State Park, Delaware

Services Rendered

- Existing Conditions Analysis
- Development of Design Alternatives
- Environmental Investigations
- Economic Feasibility Analysis
- Upland Master Planning
- Shoreline Stabilization Alternatives Evaluation
- Bulkhead and Boat Ramp Design
- Financing Redevelopment through NPO
- Final Design (CDs and DDs)
- Construction Contract Administration

Project Summary

The State of Delaware Department of Natural Resources and Environmental Control (DNREC) selected ATM to provide professional engineering, contract and construction phase services for the complete reconstruction of an existing 306 slip public marina facility (Delaware Seashore State Park). The redevelopment project was designed to correct the severe infrastructure deterioration at the facility.

ATM services included existing conditions analysis, development and analysis of design alternatives, environmental investigations, economic and feasibility analysis and pro forma development. In 2002, DNREC again turned to ATM to lead a multi-discipline team through project completion. Permitting and design of a 274 wet slip and 174 dry storage marina was completed in the summer of 2003.

In addition to the marina and floating dock design, the effort included an evaluation of different methods for stabilizing the marina basin shoreline, dredging and disposal alternatives, and the design of steel sheet pile bulkheads, travel lift piers, and a heavy-duty concrete slab. Environmentally sound drainage infrastructure was incorporated into the marine services area. Planning/redesign of site access, circulation and parking was also completed.

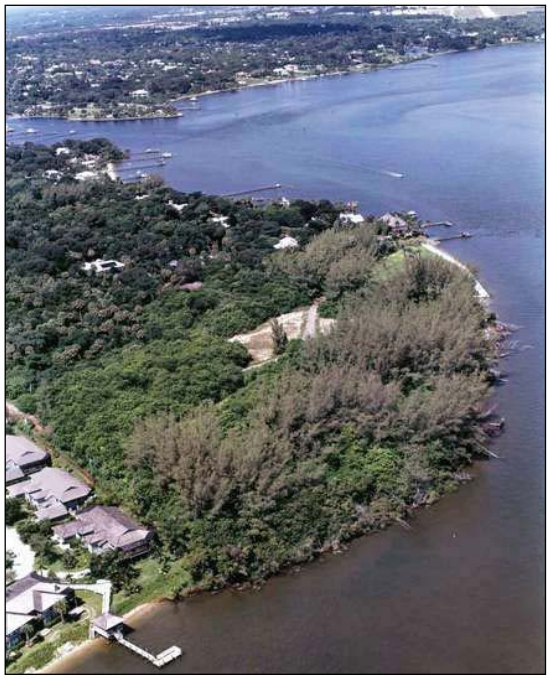
Phase I construction was finished in the winter of 2003-2004. Phase II construction was completed in 2004-2005. The dry storage building was constructed in the winter of 2005-2006.

Shoreline Protection and Enhancement

Twin Rivers Park
Martin County, Florida

Services Rendered

- Topographic, Hydrographic, and Seagrass Surveys of Park Shoreline
- Wind/Wave Studies and Site Investigations to Assess Mechanisms of Erosion and Establish Design Loads for Structures
- Shoreline Protection Design Alternatives Including Combinations of Bulkheads, Stone Sills, Revetments, Boardwalks, and Native Wetland Planting
- Conceptual Planning for Temporary Fixed or Floating Wave Attenuation Systems to Allow for Establishment of Planting
- Budgetary Construction Cost Estimates for Alternatives
- Presentation of Alternatives to the Martin County Board of County Commissioners
- Modifications to SFWMD, USACE, and Martin County Permits
- Final Design and Development of Construction Documents
- Construction Management and Survey Services



Project Summary

ATM coordinated with the Martin County Parks and Recreation Department to develop engineering alternatives for protecting and enhancing more than 1,000 feet of shoreline at the junction of the St. Lucie River and the Intracoastal Waterway. While the primary goal of the project was to prevent further erosion along the county's waterfront park property, the project was also designed to incorporate structures with a natural appearance that would provide picturesque views.

Ancillary benefits to the structural protection included the creation of wildlife habitat through native shoreline planting and educational and recreational opportunities for the public from the enhancements made to the park.

ATM provided final engineering design for the selected alternative, including design of the structures, development of construction documents, plans, and specifications. ATM also assisted the county with bidding and construction administration.

Rodney Bay Marina

Island Global Yachting
St. Lucia

Services Rendered

- Due Diligence and Site Evaluations
- Marina Planning
- Environmental Impact Assessment (EIA)
- Marina Engineering Design
- Bidding/Negotiation
- Construction Contract Administration Services

Project Summary

ATM has assisted Island Global Yachting (IGY) with the complete redevelopment of the Rodney Bay Marina in Gros Islet. The facility provides berthing for 32 megayachts up to 250 feet in length and approximately 230 smaller vessels in the 40 to 60-foot class.

ATM's effort on this project began with a detailed due diligence assessment for IGY, along with participation in the purchase negotiations for the property. Staff created an aggressive redevelopment program that included detailed marina planning, an Environmental Impact Assessment (EIA), and marina engineering design services for the project. Design elements for the project included fixed piers, floating docks, shoreline stabilization (revetment and sheet-pile bulkhead), marina utilities, and dredging.

Upon completion of the engineering design phase, ATM compiled a comprehensive bid package for the construction works, facilitated the bidding process for the Owner, and also participated in contract negotiations between the Owner and the selected contractors. After award of the contract, construction phase services were provided, including shop drawing review, site inspection, and payment application review/certification. Construction of the project was completed on schedule in December 2008, in time to accommodate vessels during the annual Atlantic Rally for Cruisers (ARC) regatta, the world's largest trans-ocean sailing event.

Rodney Bay Marina is now considered one of the premier marina facilities in the Windward Islands and provides safe, reliable dockage for the people of St. Lucia as well as visitors to this island destination.

City of Madeira Beach Municipal Marina Redevelopment

City of Madeira Beach, Florida

Services Rendered

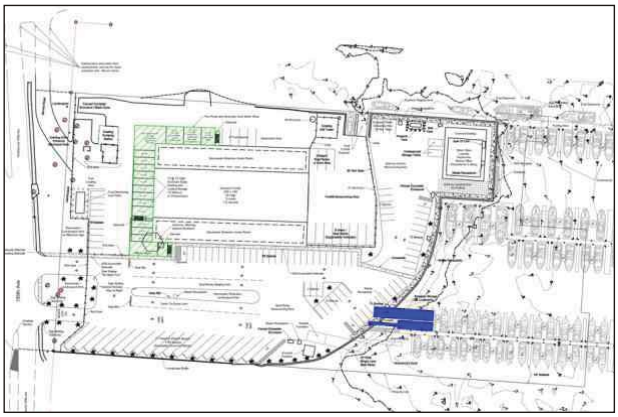
- Site Master Plan
- Design Services for the New Ship's Store and Marina Offices
- Preparation of Design Documents
- Permitting
- Boat Ramp Permitting, Design, and Construction Contract Administration

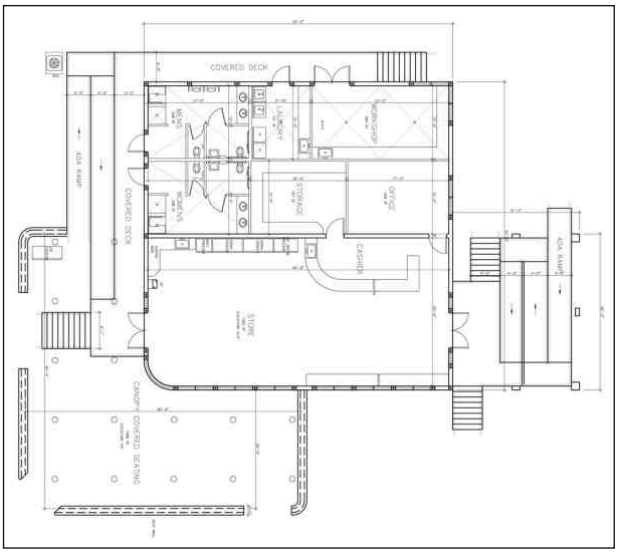
Project Summary

When the City of Madeira Beach acquired an older private marina that had become run down, they contracted with ATM to provide complete planning and design services to create a first class facility as the gateway to their community. ATM prepared the overall site master plan for the redevelopment of the marina, including upland and waterside amenities.

Using money previously obtained from a State Grant, ATM prepared documents for a new boat ramp and fuel tank replacement. ATM also performed all permitting services for the new boat ramp, including FDEP, USACE, and Pinellas County. As part of the complete renovation, a new ship's store and marina office was designed from the ground up. New fuel tanks are being installed and the new site plan will include a new dry stack facility and state of the art floating docks and utilities.

Limited access to the site and its current use as a public works facility makes the project unique.





Comprehensive Coastal Services

City of Boca Raton
Boca Raton, FL

Services Rendered

- Coastal Engineering
- Inlet Management
- Project Performance Monitoring
- Biological Monitoring
- Beach Profile and Hydrographic Surveying
- Project Permitting
- Construction Phase Services
- Various Parks and Recreation Projects

Project Summary

The City of Boca Raton has three primary beach areas (North, Central, and South beaches) and a navigable inlet. All three beaches are actively managed by the City, require project performance monitoring (physical and biological), and are scheduled for beach nourishment projects. The City actively dredges Boca Raton Inlet with City-owned dredge, placing material on the downdrift beaches. They also dredge the ebb tidal shoal to maintain sand bypassing requirements. ATM has been providing the City with comprehensive coastal services to support their project efforts since 2008.

ATM provided professional and survey services to collect data and evaluate the performance of the 2006 Central Boca Raton Beach Renourishment Project. The North and South Beach Renourishment Projects were completed in March 2010. ATM provided the City with permitting and construction-phase services in support of these projects. ATM is currently providing post-construction biological and physical monitoring services.

ATM also provides the City with an annual assessment of the Boca Raton Inlet sand maintenance dredging and sand bypassing efforts. This includes bathymetric surveying, tabulation of and record keeping of the maintenance dredging records, and an annual report used to ensure that the City is meeting their bypassing goal.

Lastly, ATM is performing multiple ancillary coastal projects for the City, including dune crossover rehabilitation, seagrape trimming, and a boat ramp operations assessment.

Long Key State Park

Florida Department of Environmental Protection
Long Key, Florida

Services Rendered

- Site Assessment
- Establish Baseline/Pre-project Conditions
- Hardbottom and Submerged Aquatic Vegetation (SAV) and Seagrass Mapping
- Coastal Processes
- Sand Source Identification
- Development of Project Alternatives
- Project Permitting Services

Project Summary

The Long Key State Park is a highly utilized park in the Florida Keys with public beach access and camp sites. The shoreline is one the few natural Florida Keys sandy beaches, and has experienced significant cumulative storm and hurricane impacts since the 1960s, resulting in drastic long-term losses to the beach and dune system.

ATM is currently contracted by the Florida Department of Environmental Protection (FDEP) Florida Park Service (FPS) to evaluate existing environmental conditions and coastal processes and to develop viable project alternatives. The FPS will select a preferred project alternative and ATM is contracted to file a Joint Coastal Permit (JCP) application.

This project is an area of extensive sea grasses and rich environmental resources, and requires the ATM project team to coordinate with State and Federal agencies and stakeholders (including NOAA NMFS, Florida Keys National Marine Sanctuary, etc.) to develop and permit a successful project.

Old Island Marina & Boatyard

New Stock Island Properties, LLC
Key West, Florida

Services Rendered

- Master Plan Support
- Marina & Drystack Market Assessment
- Marina, Drystack, & Boatyard Conceptual Design
- Surveys (Bathymetric & Benthic)
- Modeling (Flushing Study)
- Environmental Permitting
- Water Quality Analysis

Project Summary

ATM provided a various engineering consulting services in support of the Old Island Marina & Boatyard project. The development is proposed to consist of a hotel, marina, drystack, boatyard, and marina village. The project site is located on Stock Island near Key West, Florida.

ATM conducted a comprehensive marina and drystack market assessment to assess boating market trends and potential demand in the lower Florida Keys region. Based on the market assessment findings and in conjunction with the upland master planning, a conceptual marina, drystack, and boatyard layout was developed.

In support of the environmental permitting efforts, ATM also conducted a bathymetric survey of the basin and entrance channel, a benthic assessment of the impacted portions of the basin, a flushing study of pre- and post-project conditions, and a water quality analysis.

Truman Waterfront

New Stock Island Properties, LLC
Key West, Florida

Services Rendered

- Site Assessment
- Master Plan Analysis
- Marina Layout Concepts

Project Summary

ATM provided site assessment services to New Stock Island Properties (NSIP) to support the development feasibility analyses of the Truman Waterfront site, located adjacent to the popular waterfront areas of Key West. NSIP was giving consideration to responding to a public advertisement for private development of the site, and ATM's site assessment allowed the client to make informed decisions regarding the potential response.

The site assessment included a review of the physical site characteristics, as well as an analysis of site development opportunities and site master plan.

In addition to the site assessment, ATM developed multiple marina layout concepts allowing NSIP to determine conceptual revenue generation potential of the marina portion of the proposed development.

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
City of Cocoa Waterfront Redevelopment, Cocoa, FL	2007-2008	Est. 2009-2010

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT	c. POINT OF CONTACT TELEPHONE NUMBER
City of Cocoa CRA	Susan McGrady	321-639-7591

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

The City of Cocoa is pursuing new waterfront opportunities as part of their overall downtown redevelopment plan. Under consideration are a new mooring field, enhanced pedestrian thoroughfares, expansion of day slips and water taxi docks, and larger vessel docking facilities.

ATM, as a subconsultant to a larger Master Planning firm, is responsible for the waterfront portion of the plan, including mooring field permitting and design, dock layouts and design and evaluation, and boardwalk structural elements.

The Master Plan was presented to the City in November 2008, and is expected to be implemented in various phases. The waterfront elements are expected to create an attractive connection between the water and the downtown area to boost public access and tourism into the heart of Cocoa. Our vast knowledge of the area and the project's permitting constraints has helped the City implement a unique waterfront revitalization plan.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	Applied Technology and Management, Inc.	Melbourne Beach, FL	Lead Waterfront Engineer
b.			
c.			
d.			
e.			
f.			

Weiler Engineering Corporation

ANGLERS CLUB, PLACIDA, FL

This 4.5 acre site located along the intercoastal waterway consists of 32 two-story condominium units, clubhouse, cabanas and a pool facility and was originally developed by Cortex Development, Inc. Weiler completed the building design from the conceptuals provided by the Boston-based architectural firm and adapted them to meet the Florida Environment and Building Code. Weiler implemented a cost effective structural design into the building and assisted the building contractor through the entire project.

Everett Atwell
Chief Operating Office
Cortex Companies
1115 Marbella Plaza Drive
Tampa, FL 33619
(T) 813.663.0401
Everett@cortexcompanies.com

Weiler Engineering Corporation

CITY OF MARATHON MASTER STORMWATER SYSTEM

WEC was selected to provide a City-wide stormwater collection and treatment system to be provided in conjunction with the City's central sewer system. The design included treatment swales, exfiltration trenches, over 1,000 inlet structures and over 100 stormwater injection wells. The unique geology of the Florida Keys coupled with the high groundwater table made this project anything but routine design. WEC worked closely with City and residents to provide a design that best met the needs of the community. WEC engineers conducted public forum meetings to educate the public on non-point source pollution and what to expect during and following construction. The entire system was permitted through the SFWMD in 8 phases, all of which WEC has completed the design, permitting and construction administration. The innovative concepts used in the stormwater design lead to WEC and the City of Marathon earning the EPA's 2008 Performance and Innovation in the State Revolving Fund Creating Environmental Success (PISCES) Award for the State of Florida for their use of Clean Water SRF loan money. WEC has also been recognized by the United States Congress for this achievement. Recently, the project was award the Florida Stormwater Association's 2011 outstanding achievement award.

Weiler Engineering Corporation

CITY OF PUNTA GORDA HARBORWALK - SHREVE STREET MULTI-USE RECREATIONAL TRAIL

WEC was contracted by the City of Punta Gorda to provide planning and design for a 3-mile section of harbor frontage. Weiler was responsible for the design which includes a multi-use path adjacent to Charlotte Harbor, and park improvements such as parking areas, gazebo, pavilions, stormwater management systems, playground areas, bocce courts, fishing piers, restroom facilities, boat ramp, pedestrian bridges, seawall replacement and landscaping improvements. WEC also provided planning for a marina facility which included docks a multi-story community structure and parking. WEC has built a relationship with the City of Punta Gorda Staff and Council and continues to provide design and construction engineering services for various sections of the City's "Ring Around the City" including multi-use recreational trails and streetscape improvements. WEC has also been responsible for the design and permitting of the City's East Mooring Field which involved extensive coordination with the Army Corps of Engineers, the Florida Department of Environmental Protection, the United States Coast Guard and the Florida Fish and Wildlife Conservation Commission.

Dennis Murphy
Director of Growth Management
City of Punta Gorda
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Punta Gorda, FL 33954
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dmurphy@ci.punta-gorda.fl.us

Weiler Engineering Corporation

HAWK'S CAY RESORT

The Weiler Engineering Corporation was retained by Hawk's Cay Resort to provide a variety of site improvements including stormwater drainage and treatment, water distribution, wastewater collection and treatment facilities, docks, seawalls, environmental permitting and structural design for all homes and common facilities. One of the most important improvements was the creation of a linear park which provided aesthetic enhancement to the site entrances and a diverse recreational facilities which not only provides the amenity of a multi-use recreational trail, park facilities and landscaping, but also provided continuity by tying various areas through out the resort into the linear park.

The park is designed with a curvilinear nature. The design allows resort guests to gradually wind around landscaping and other resort amenities safely whether they are using the facility for casual recreation or exercising by jogging, bicycling, rollerblading or skate boarding. In several locations the linear park crosses roadways and driveways. The project was designed to provide a high level of safety for the linear park users and motorists and was designed and constructed in compliance with all ADA requirements. Due to the impact of a construction project on the resort operations, it was of paramount importance that the design and construction be completed on a tight schedule. A task which the Weiler staff made certain would be accomplished.

Since construction has been completed on the linear park and on other resort improvements, resorts guests, staff and owners have been pleased with its high level of use and quality design and construction. Like all Weiler Engineering projects, our staff has a high level of pride in our work. We take great satisfaction through working with our clients to provide them with a design which meets the project requirements and exceeds their expectations. Through our involvement in the construction we are able to ensure that the final product is constructed to high level of quality intended. In this case we established a strong working relationship with our client and with contractors which played a very important role in the success of the Hawk's Cay linear park. It is this approach and level of service which we provide to all our clients.

Michelle Koby
Koby Property Management, Inc.
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Marathon, FL 33050
(T) 305.743.3000
michelle@kobyinc.com

Weiler Engineering Corporation

INDIGO REEF RESORT

WEC provided completed site and structural design, permitting and construction contract administration for this 67 unit waterfront resort and a 67 slip marina on Florida Bay. Engineering design services and services during construction were provided for nearly every phase of this project including site, stormwater drainage and treatment, water distribution, wastewater collection and treatment facilities, docks, seawalls, environmental permitting and structural design for all of the homes and common facilities. The project is unique and complex as it was necessary to fill in part of the existing canals to construct the homes and to develop a solution to revive the remaining DEAD canals. WEC prepared plans and specifications to permit the means and methods necessary to rejuvenate the sea grass and benthic communities throughout the canal system. In addition WEC prepared the Civil and Structural design and specifications necessary to build a number of the high end homes on top of nearly 35 feet of fill used to shorten the canals. A combination of sheet piles, auger piles and grade beams were use to accomplish this task.

Weiler Engineering Corporation

THE BOAT HOUSE AND CORAL LAGOON RESORT – TRANQUILITY BAY BEACH RESORT, INDIGO REEF RESORT, MARATHON, FLORIDA

Coral Lagoon is a 5.4 acre waterfront resort community in Marathon, Florida. The project consists of 25 hotel/condominium units, 89 boat docks, a 47,000 square foot dry storage building with 300 dry slips, associated appurtenances and a marine store. Weiler Engineering provided all permitting, civil engineering and structural engineering of the project. Weiler Engineering was also responsible for the docks and the boat launch and the boat haul-out, as well as all permitting through the FDEP and ACOE and for obtaining the Sovereign Submerged Land Lease.

Pritam Singh
Executive Vice President
The Singh Company
(305) 296-5601
pritam@singhco.com

Weiler Engineering Corporation

PARROT KEY RESORT – KEY WEST

WEC designed and permitted this waterfront resort in Key West. WEC was responsible for nearly all of the design and provided construction administration including inspection. The project included over 80 units, private beaches, two dock facilities, private beaches, 4 pools, subsurface stormwater management system and restaurant. WEC coordinate through the City of Key West and the Florida Keys aqueduct authority for utility connections. WEC also was required to obtain permits from the SFWMD, FDEP and ACOE for various portions of the project. The project was completed on time and within budget.

Weiler Engineering Corporation

TRANQUILITY BAY RESORT, MARATHON, FL

The Weiler Engineering Corporation designed and engineered the site, utilities, storm water, and structural aspects taking the project through permitting and certification. Tranquility Bay Beach House Resort is a 12 acre waterfront resort located in Marathon, Florida. The resort consists of 87 condominium beach homes, including a 2.5 acre private beach, great lawn, swimming pool, and salt water lagoon. The structural design for a Tiki bar with kitchen, and a separate world class resort restaurant with kitchen was engineered by Weiler, including full service components for an ultimate food preparation operation. A major factor in this design is the ability to assure the buildings will sustain high-velocity hurricane force winds.

Weiler Engineering Corporation

TROPICAL PLANTATION PRESERVE PARK IMPROVEMENTS

The Village of Islamorada contracted Weiler Engineering to make substantial improvements to a City park known as the Tropical Plantation Preserve. The preserve is a 3-acre park with landscaping, trails and monuments. The park is located adjacent to the Overseas Heritage Trail at MM 90, bayside, in Islamorada. Weiler was tasked to make improvements to the park including a parking area and trail improvements, kayak and canoe launch ramp for water access, stormwater design, vegetation surveying and mitigation.

The Weiler construction staff provided construction engineering through out the project, ensuring the base for the parking areas and path access were constructed as designed, inspecting the on site BMP measures, inspecting concrete formwork, reinforcement and pouring and inspecting tree relocation and replanting.

This project was in a very sensitive location due to the surface waters and mangrove fringe. Extensive coordination throughout design and construction with the Florida Department of Environmental Protection, Army Corps of Engineers and the Florida Department of Transportation was required so that the project ran smoothly. Due to the time frames of State grant funding which helped fund the project, the construction period was very time sensitive. The WEC CEI staff worked closely with the Village staff to provide all inspections, submittal review and certification within the required timeframe.

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Village of Islamorada
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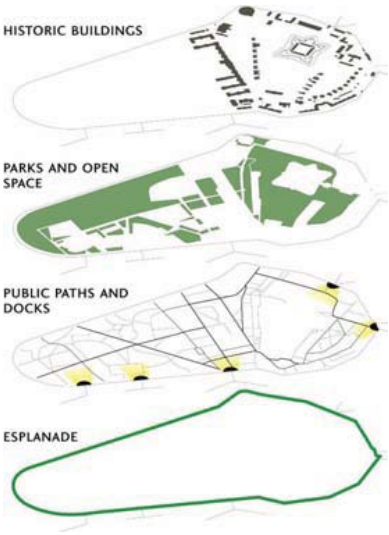
STARR WHITEHOUSE
Landscape Architects
and Planners PLLC

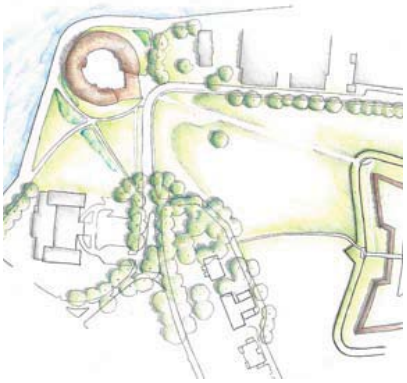
GOVERNORS ISLAND GENERAL MANAGEMENT PLAN

New York Harbor, New York



Governors Island, which guarded New York harbor for more than 200 years, was recently decommissioned and turned over to public use. Stephen Whitehouse assisted the National Park Service in developing a vision for the new Governors Island National Monument, which encompasses the core of the 18th- and 19th-century forts and military landscapes. This first General Management Plan considers issues of preservation and reuse of the historical structures and landscapes, park boundaries, maintenance, and shaping the visitor's experience through the built structures and the landscape to bring the island's history alive. Landscape recommendations include removing parking lots to make a seamless transition between Castle Williams and Fort Jay, demolishing 1970s-era buildings to open up dramatic views to Ellis Island and the Statue of Liberty, restoring the parade ground and highlighting the original shoreline of the island.

Concept Design (top), Views to Manhattan (above), historic fortifications (far right), schematic sketch and existing (right).



STARR WHITEHOUSE
Landscape Architects
and Planners PLLC

THE JERSEY CITY WATERFRONT PARKS CONSERVANCY

Paulus Hook, New Jersey

Paulus Hook's open waterfront looks across New York Harbor to Lower Manhattan and is in a prime, accessible location for Jersey City's downtown businesses, transportation, and growing residential community. The contrast of the natural history of the area — the vast harbor and estuary, wide rivers, islands— and the metropolitan area's powerful density are tangibly felt at the site. Yet, the separate waterfront parcels are unimproved or in poor condition, making an uninviting environment.

Starr Whitehouse, teaming with nARCHITECTS, has designed a new plan for the waterfront, connecting the disparate parcels to create one contiguous park that responds to the community's needs while speaking to the site's natural beauty within a regional waterfront park system. As a result of input from a community workshop, the park design features a large open lawn for flexible use, wetlands, a dog run, an amphitheater, kayak launch, and unique play features for children. A bridge over the canal will connect the park, allowing accessibility and circulation from both the north and west entrances. This compelling design will attract families and visitors, enriching the neighborhood and transforming Jersey City's waterfront into a distinguished urban jewel.

Overview of Jersey City's Paulus Hook Waterfront Park (top), Existing Conditions (above), Rendering of the site (right).

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and Planners PLLC

BUSHWICK INLET PARK

New York City Department of Parks and Recreation
New York, New York

Existing conditions (above); Concept design and section (below).

Bushwick Inlet Park reclaims the abandoned East River shore of Brooklyn for recreation and nature. The first phase of the park, designed by Starr Whitehouse and Kiss + Cathcart Architects, creates a sequence of places arrayed along a generous park promenade to the water. A new field house on Kent Avenue combines park maintenance functions and separate community spaces, while maximizing the public use of the park land: the fully-accessible green roof slopes dramatically to the ground in the west, providing a playground, terraced lawns, and commanding views over the park towards the river and Manhattan. Sustainable systems include in-ground heating loops, photovoltaic electricity, and irrigation with collected site water. A multi-purpose sports field supports year-round community recreation and provides below-ground stormwater storage. At the waterfront a grass knoll echoes the slope of the field house and a terrace of permeable pavement gives a tree-shaded overlook on the shore. The waterfront supports marine and avian life, with an off-shore island, a varied rocky edge, and marsh plantings. A freshwater pool of filtered site storm water and native upland plantings provide shelter, food and drink to migrating birds.

STARR WHITEHOUSE
Landscape Architects
and Planners PLLC

BATTERY BOSQUE

The Battery Conservancy
NYC Department of Parks & Recreation
New York, New York

Previous condition (top); Looking down on the Bosque (below); Afternoon light (bottom).

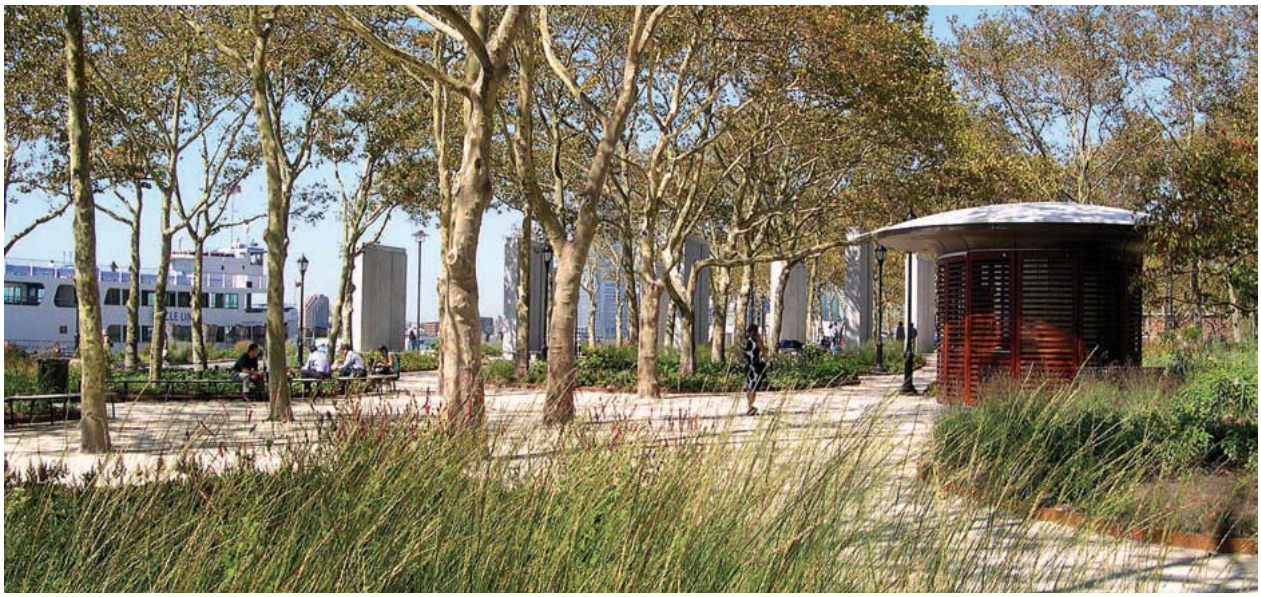
The Battery Park Bosque transforms a non-descript park into a horticultural and recreational destination through design excellence. The Bosque, designed to serve the rapidly transforming community of Lower Manhattan, is a key part of the city's effort to infuse downtown with a creative climate to suit the 24/7 live and work environment. Laura Starr organized the design and building of the Bosque, overseeing a multidisciplinary team of architects, lighting designers, renowned architects Weisz + Yoes, in designing and building the Bosque. The Bosque carves a natural refuge out of the otherwise bustling Battery Park. Composed of 2 acres of garden rooms woven together under the cover of a grid of London Plane Trees, the Bosque features a Spiral Fountain, a popular place for children to play, food kiosks, and an upcoming marine-themed carousel. The Battery Park Bosque offers a series of spaces of diverse character, where people can eat, gather, chat, and sit.

The Battery Bosque is the recipient of these awards: Waterfront Center 2006 Excellence on the Waterfront Top Honor Award; ASLA NY Chapter Honor Award for Landscape Design

Contributors: Weisz + Yoes Architecture, Piet Oudolf Design, Tillett Lighting Design, Buro Happold, Ambrosino Depinto & Schmieder, and R.J. Van Seters Company.

STARR WHITEHOUSE
Landscape Architects
and Planners PLLC

BATTERY BOSQUE
THE BATTERY CONSERVANCY
NYC DEPARTMENT OF PARKS & RECREATION
New York, New York



Afternoon light (top left), Looking down on the Bosque (top right), View towards the water (above), Plantings and outdoor dining (left)

STARR WHITEHOUSE
Landscape Architects
and Planners PLLC

STARLIGHT PARK/ BRONX RIVER GREENWAY RIVER HOUSE

Bronx, New York

Award:
"Excellence in Design" 2008 for the "Bronx River House and adjacent site work" from the Art Commission of the City of New York

LEED:
The project seeks LEED Platinum

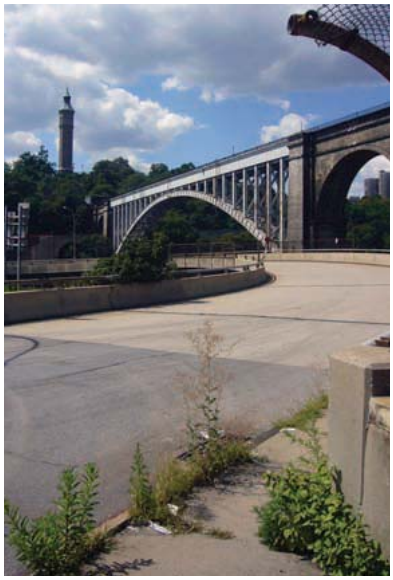
The Bronx River House by Kiss + Cathcart Architects and its surrounding landscape by Starr Whitehouse support the programs and environmental mission of the Bronx River Alliance. The building stores the Alliance's canoes and kayaks, provides office, classroom and meeting spaces, and functions as a living part of the park. A steel mesh screen wall wraps the building, providing security and an armature for deciduous vines which modulate temperature. Roof photovoltaics and geothermal heating minimize energy use. Site stormwater is infiltrated to the ground or captured into a cistern for use for non-potable building systems and for irrigation. The outdoor program of the River House features the vine plantings for the screen wall, landscape swales with native plants, entry plantings and two main public spaces. The boat plaza does double duty as a yard for hauling boats and as an accessory event plaza of tinted concrete with a lively pattern of permeable pavers. The river terrace, a garden plaza with native plants, a custom bench, and light-colored pavers on a permeable base, is framed by the building's screen wall and by a low retaining wall of boulders and gabions that evoke the materials of riverbank stabilization. The Bronx River House received a 2008 design award from the Art Commission of the City of New York.

Overview of the River House (top),
Renderings of the site (bottom).

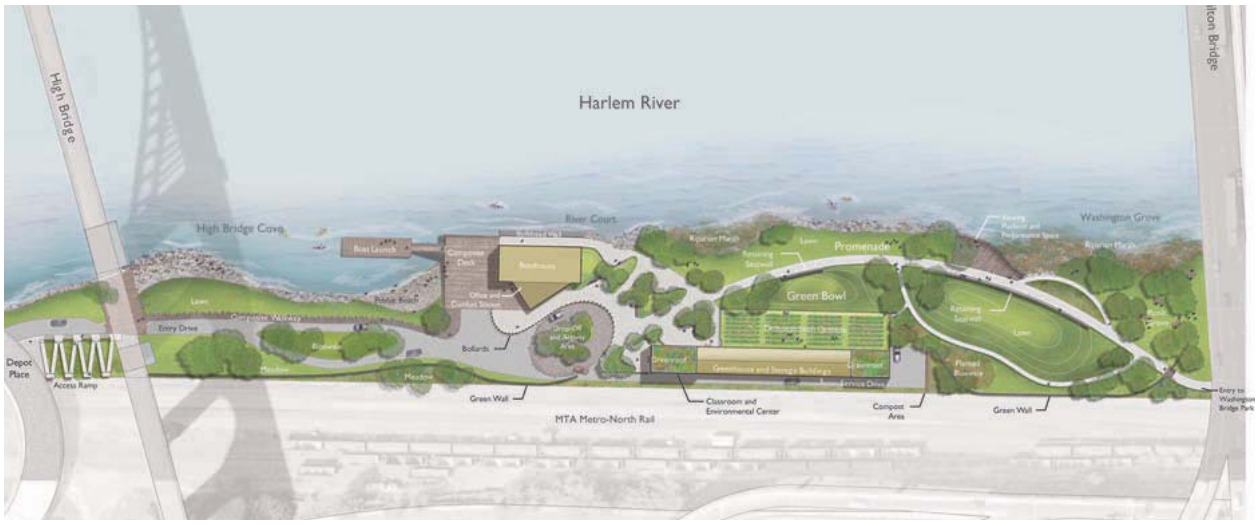
STARR WHITEHOUSE
Landscape Architects
and Planners PLLC

HARLEM RIVER PROMENADE

Bronx Overall Economic Development Corporation
Bronx, New York



The proposed Harlem River Promenade is a waterfront site in the Bronx tucked within the bridges and hillsides of the Harlem River Valley. While challenged by topographical and infrastructural barriers, the site can become a unique destination for non-industrialized purposes and re-capture the dramatic historic and natural beauty of the Harlem River Valley. Starr Whitehouse, teaming with Perkins + Will, developed a conceptual plan to transform the site into public space. Building from ideas and goals established at two community workshops, the proposed Promenade holds several distinguishable programs and recreational park uses that utilize the site's direct waterfront access and provide spaces for families to gather, play, and experience a taste of nature in an urban setting. A riparian marsh along the water's edge will be planted with native grass species to help restore the polluted shoreline. A shared pedestrian and bike path traverses the site and connects into the Bronx greenway system. The plan also creates opportunities for program partners — a boathouse, greenhouse, and educational center — to generate year-round activity.



Overview of Harlem River Promenade Waterfront Park (top), Existing Conditions (above), Rendering of the site (right).

Management Approach

Our team includes a diverse range of professionals-- each with a very specific and distinct area of expertise—to develop the best potential waterfront plan for the City and its residents. **Keith and Schnars (K&S)** is a highly proficient engineering, landscape architecture, planning, and environmental firm with particular strengths in designing infrastructure and utilities, preparing construction documents, and managing complex public projects. As the lead team, K&S will oversee all technical aspects of this project including environmental.

Zyscovich Architects is a highly creative and energetic architectural and planning firm which is extremely adept at generating community interest and support for their planning and design solutions. In addition to leading the architectural components of the waterfront master plan, Zyscovich will oversee all urban planning issues to ensure that the park meets the community's needs while providing economic benefits.

Starr Whitehouse is a New York based landscape design firm who balance design solutions with environmental and user needs and park management. With community-based experience in both small and large waterfront projects, they will lead the waterfront design and develop creative strategies for incorporating community input into the design process.

Weiler Engineering is a long-time Keys civil engineering firm. They will provide local expertise and historical continuity having worked on the 1993 marina plan. They will assist the on-site civil engineering issues and will be responsible for permitting, quality control, inspections, and will serve as the local liaison for this project.

This combination of disciplines will provide the technical expertise needed to develop and manage park planning and construction, the creative talent to develop and refine park concepts and redevelopment scenarios that reflect the community goals and objectives, and a local construction experience to shepherd all phases of permitting and development. A park of this size can satisfy divergent needs and interests and assume multiple roles as a community resource, an economic stimulus, and as a means to reinforce historic character, enhance connectivity, and increase waterfront access by the public. Through this development

process, the plan for the new park must accommodate each of these roles if it is going to be embraced by its multiple stakeholders. We are also aware of the financial, contractual, and regulatory obligations that will need to guide the park program. These areas of expertise are discussed in greater detail in the project experience section of this submittal.

Design Philosophy

Our design philosophy is simple. We support sustainable development by understanding how a city came to be and considering past and present development patterns, local needs for better communities, and economic obstacles and opportunities. Through this approach, our team can create an authentic environment specific to Key West by providing design solutions for a livable community with a diverse population, cultural amenities, and economic vitality.

The design effort starts by asking essential questions about the site, the proposed uses, the natural systems and ecological potentials, the urban context, the capacity for management, and the community. The synthesis of these issues into a design requires a mastery of program components and their elements—gathering spaces, performance requirements, promenades, recreation—and then must reach past the basic requirements of function to create memorable places. Circulation and access create a structure of movement in public open space greater than the simple act of getting from one place to another, with the experience of the pedestrian being the essential component. The sequences of movement in the Truman Waterfront, both in the short dimensions—from the neighborhood streets, through the park, to the water's edge—and the longer routes parallel to the shore, can be a comfortable, varied, and engaging public experiences.

While accommodating public uses, the Truman Waterfront can connect people to nature. In traditional park design, the role of planting and connection to nature is mainly aesthetic, and an essential expectation for public space; the effort to create sustainable communities brings ecological and environmental function forward, in addition to these aesthetic aspirations. Since ecological function is so closely tied to local conditions of climate, soil, and plant communities, the drive for sustainability will result in design solutions appropriate to Key West.

A successful public park also seeks to find the balance of elements to enhance both nature and culture. We view public participation as more than a procedural or political requirement in the design process. Public participation provides the essential forum which brings together the technical and design capabilities of the project team with the aspirations, goals and unique local knowledge of the community.

Project Understanding

The Truman Waterfront Annex has a long history of stalled redevelopment initiatives, which explains the City's commitment to move forward with the current Meisel and Spottswood conceptual plan. This commitment began in 1995 when the US Navy declared portions of their naval base as excess land pursuant to the Federal government's Base realignment and Closure Act of 1990 (BRAC). It was at

this point that the City established the Local Redevelopment Authority (LRA) to redevelop the property and created the City's 1997 Naval Base Reuse Plan, which incorporated various marina, cruise ship, public parks and open space, and other land side uses, as well as program and infrastructure requests from thirty-five local agencies, homeless providers, the general public, and those individuals living in close proximity to the base closure.

Both the Comprehensive Plan and Land Development Regulations were updated to reflect this plan. However, the subsequent process to convey the property to the City's LRA was slow and further complicated when the Naval Base withdrew their offer for the initial property and took a significant portion of land off the table, mainly the Outer Mole Pier. In 2002, the Navy agreed to transfer the property to the LRA through a "no-cost Economic Development Conveyance" to enable the City to continue its revitalization process concurrent with the Navy's retention and improvements to the Mole Pier. The Meisel and Spottswood development proposal was a direct result of this Naval Base Plan, which had recommended a number of financing options for park development, including user financing. The resulting conceptual plan reflects the recommendations from the original 1998 Naval Base Reuse Plan with additional programming and uses to finance the project. It includes safeguards for environmental issues and security procedures related to the Naval Base.

In the sixteen years since this project was first conceived, the Truman Waterfront Annex has represented an important asset and opportunity not only for local entities whose development requests have been incorporated into the 1997 plan, but also for the City, who has a keen interest in realizing the fruits of their investment, the developer, who has spent ample resources to develop the project concept and pro forma, and most importantly the general public and affected residents, who perceive this site as an opportunity to integrate this disengaged piece of land into the City fabric and provide waterfront access and public open space. Their input and support is crucial to the project's success and our team will strike a balance between the City's very significant obligations regarding land transactions, the regulatory and policy framework, invested resources and financial structures, and the community's expectations.

Proposed Scope of Work

Historical Context

The first step towards success is to understand the project history in the context of the proposed conceptual plan. This will include site evaluation, review of previous plans and studies, and preliminary interviews with staff. The purpose of this task will be to understand the story of the Truman Waterfront Annex, how it came to be and how the initial project goals have evolved since the property first became available to the City. This will help us generate a timeline of goals and objectives within the context of the City staff and the community.

Preliminary Site Assessment

While a conceptual plan has already been supported by the City, the site must still be evaluated in terms of existing conditions, the water table, environmental issues, seawall, utility infrastructure, and soils. This will include a site survey and a cursory assessment of the entire Truman Waterfront Annex project area. We will also examine the environment immediately surrounding the study area in terms of neighborhood context to reveal the underpinnings of the study area—its context, cultural diversity, character, landscape, and economic opportunities which reinforce each other.

Project and Current Plan Evaluation: Issues and Opportunities

We will evaluate the Meisel & Spottswood Conceptual Plan for consistency with findings from the Preliminary Site Assessment and the Historical Context. It is not our intent to reinvent the plan, but to understand how it came to be—its strengths and weaknesses—and evaluate opportunities for improvements and enhancements in light of the physical and legal constraints. The zoning and land use changes to the City's Comprehensive Plan provide very specific requirements to redevelop the project area including a marina which maximizes revenues for the City and a public use component. It also recommends passive and active uses and cultural components to be a great community park. Any changes to the conceptual plan must preserve these functions. The result of this analysis will be a summary of preliminary issues and opportunities to update and improve the current conceptual plan.

Refine Project Goals and Objective- Stakeholder Input

Following our project evaluation, the second part of this task is to go back to the stakeholders—the community and the public entities whose development requests were integrated into the approved Naval Base Reuse Plan, as well as the City and the developer—to confirm and refine their goals and objectives. This will include a comprehensive understanding of short-term and long-term goals related to capital improvements, private investment, and public

perception in light of the 1998 Naval Base Reuse Plan, which identified the following objectives:

- enhancing the economic health and long-term viability of the City's tourism-dependent business base;
- developing and protecting a vibrant multi-use port facility;
- creating and retaining high-quality employment opportunities for Key West citizens, and in particular for residents of Bahama Village, the City's historic African-American neighborhood located adjacent to the site;
- preserving and enhancing the economic foundation of Bahama Village;
- providing needed affordable commercial sites for resident entrepreneurs and existing businesses in order to allow them to compete for a share of Key West's increasingly competitive retail/service trade; and
- expanding economic opportunities and training for Key West's homeless and needy residents to help break the cycle of poverty.

We propose a series of one-on-one meetings and at least three group meetings with various stakeholder groups. This process will provide an opportunity for all of the stakeholders and project participants to reflect on the project's evolution over the past sixteen years and re-evaluate their expectations and desires by re-articulating their goals and objectives. Our team will guide this discussion based on our preceding project evaluation of the opportunities and constraints to develop an updated set of goals and objectives. Once approved by the City and the Truman Waterfront Advisory Board, these criteria will guide our design process.

Schematic Design

Our team, lead by landscape architects, will incorporate any desired refinements from the project evaluation processes during the schematic design phase. Alternative designs will be explored and evaluated as a team to arrive the most promising alternative design solutions. Element function, relationships, locations, scale and impacts are part of the evaluation. A preliminary opinion of construction cost and the schematic design will be reviewed with City and Local Redevelopment Agency prior to approval of the final design concept.

Design Documents

Whether or not LEED certification is desired, the proposed facilities designs will be responsive to the environment. Although the areas outside the buildings are not eligible for LEED certification, we will implement sustainable practices into all our designs. Key focuses of the design include improving the environment, aesthetics and reducing maintenance and typically required resources. Our team's design professionals work closely to ensure all improvements are integrated functionally in a sustainable fashion. Sustainability will be reflected in all the design and material selection. Our team will also implement Crime Prevention Through Environmental Design (CPTED) concepts to improve safety and surveillance capabilities in our designs.

Projects have a considerable impact on maintenance demands. Therefore, during the detailed design stage, our team will interview maintenance managers and staff to understand fully their maintenance capabilities, preferred equipment and operational requirements. This process will allow us to design for an appropriate level of services and to specify the City's desired materials. Specifying proven materials with which the City is familiar will minimize training, maintenance and inventory requirements.

The K&S team is extremely familiar with site infrastructure design and the requirements of the City, county, as well as State and Federal agencies. The team will provide regulatory compliant, value engineered and coordinated site infrastructure design, while keeping future maintenance requirements in mind. To that end, we will initiate early coordination with franchise utility owners, public utility providers, and all governing regulatory agencies to insure a well planned, implemental and sustainable product.

As the first impression of a site, landscaped entryways must be welcoming and appealing. With varied selection of native plant species to choose from, there's no need for high maintenance exotics. The beauty of native landscapes goes beyond its appearances. They support green industry Best Management Practices, contribute to the restoration of our ecosystems and promote biodiversity – some of our native shade tree species can support 300 other native plants and animals. Everyone looks for a shade, and seating and shade go hand-in-hand. Thus, placement of benches and site amenities must be designed for how people use them. But just as important, is knowing what these products are made of, where they come from, and how can they be used to promote Key West's vision. With the rapidly increasing public awareness in sustainability, informative signage and interpretive trails can go a long way towards promoting the sustainable innovations incorporated into the site. Concepts that people often overlook can be identified and explained, connecting the visitors with the space.

Permitting

Early coordination and environmental site investigations are vital to a successful project. The team's experts will provide valuable input during the project planning and development phases and we will ensure early coordination with key agencies to avoid time delays. We believe that well-planned pre-application meetings are invaluable tools, which introduce the agencies to the project, identify potential obstacles, and provide opportunities for joint solutions that expedite the process. The K&S team is extremely familiar with the permitting requirements of local South Florida governments, and State and Federal agencies. We also are familiar with the Florida Building Code, LEED standards, and the region's building departments and inspectors. As local consultants, with over 25 years of continuous relevant environmental services, we routinely work with these agencies on many different levels through a variety of design permits and have established excellent relationships with the permitting agencies.

The scope of services calls for developing plans for harbor walks, pedestrian paths, bicycle ways, and recreational paths, utility infrastructure, roadway, parking lot, restroom facilities, recreational areas/fields, lighting, signage, public plazas, and a small amphitheater. Based on the proposed improvements, we anticipate permitting process will include:

- City of Key West
- Florida Department of Environmental Protection
- South Florida Water Management District
- Army Core of Engineers
- Department of Community Affairs

Construction Documents

The construction document phase begins when the approved detailed design and permit comments and requirements are addressed. All necessary calculations, notes, and details, are finalized are incorporated into the plans and technical specifications are prepared to incorporate into the construction document that the City can use when advertising for bids. Special considerations are incorporated into construction documents, such as the need for phasing the construction or details of specialized work procedures to protect environmentally sensitive areas. Detailed specifications are developed to ensure that standards and quantities for construction are clear and concise. We not only understand the importance of these details, but excel at developing specifications that meet the specific needs of our clients.

Bidding

The K&S team can assist in the bidding process, including participation in site meetings, bid analysis, and recommendations for award. If desired, we have capabilities for bid document production and contractor distribution. We take special care to assure that all legal requirements are met to assure a smooth transition from design to implementation. Bid evaluation and recommendation

is a service that many municipalities value, and we have provided these services to the majority of our municipal clients. Our experts interview contractor references, verify bid quantities, review costs, and produce recommendation reports, and our up-to-date knowledge of current value engineering methods and costs permits us to make informed recommendations.

Construction Management

K&S has over 25 years of experience in construction management. We believe the firm's successful history over this extended period of time demonstrates our commitment to excellence in the performance of these services and is complemented with the assistance of Weiler Engineering.

During the construction phase, the Contractor's bar chart or Critical Path Method (CPM) schedule (if applicable) will be reviewed for completeness, sequence and duration logic, feasibility, specification compliance, cost distribution and workforce balance. We will actively work with and assist the Contractor in achieving a workable baseline schedule acceptable to the City. Daily and weekly reports of construction will be tied to the current schedule activities, as will the progress review meetings with the Contractor.

Monthly schedule updates will compare the actual against baseline schedule progress estimates and negative float identified. This will assist in the early identification of potential problem areas and their timely resolution. In the weekly/bi-weekly meetings we will discuss with the Contractor his plan for performing the work, by utilizing a two-week look-ahead schedule. This will ensure that all required equipment and materials are at the site for construction to proceed in a timely fashion.

We will also conduct a schedule analysis with the Contractor of the work, and identify any variances to his approved schedule. Additionally, once a month, a two-month look-ahead schedule review will be discussed with the Contractor to ensure that they understand, through open discussion/clarifications, the scope and phasing of the project for work to be performed two months ahead. During this time, we will review the plans and the Contractor's proposed activities and make sure that the Contractor understands the scope of work, items, and activities to be performed. We look at potential areas of difficulty with a proactive, rather than a reactive approach. Through partnering, the job is built on paper before it is built in the field.

Coordination Meetings

In order to keep the project properly coordinated, the K&S Team proposes regularly scheduled progress meetings (bi-weekly to monthly) with City Staff to keep the City informed of the project status and to ensure conformity with program goals. In all cases, K&S will be responsible for maintaining a complete project file documenting our research and analysis, telephone conversations, and meetings. As Project Manager, Mr. Reed will also hold an internal project kick-off meeting

to ensure that team members understand the scope of the project, their responsibilities, and the requirements of the project's schedule. Additionally, our team will hold regular internal team meetings, as well as regular project progress meetings with City staff, to review project milestones and monitor project status. During these meetings we will discuss:

- Deliverables, both internal and external, including those for the permitting agencies;
- Project schedules to establish staffing needs;
- Short-, mid-, and long-range objectives;
- Our workload, in order to ensure our commitments to the City are met;
- Project findings and relevant information influencing decisions, discussions that will aid in developing problem-solving and cost-saving strategies; and
- Methods to accelerate the schedule.

Cost Control

The cost management policies and procedures that we utilize at K&S are designed to ensure that our projects are always completed within the approved budget. Internal budgetary problems are avoided by clearly establishing the cost and scope of the work at the start of the project and by anticipating and budgeting for unforeseen contingencies. Close communications will also contribute to the prevention of cost overruns.

In order to provide an efficient design for the construction and the life of the project, our team will present design alternatives to The City staff, including the maintenance managers, during progress meetings. These alternatives will be reviewed for long- and short-range cost-savings, maintenance capabilities, life-cycle cost, durability, and reduced impacts to the environment. At each step of the plan's development, we will submit our Opinion of Construction Costs, which will be developed by comparing the current and historic bid prices of our other projects, reviewing available public construction pricing, and consulting with local contractors and manufacturers.

We provide cost estimates for our projects to ensure they are within budget. We are able to review with City staff the cost of options and alternatives during the design phase. Additionally, we will provide preliminary life cycle cost analysis, if requested for design elements. Careful analysis with City staff will result in a refined Opinion of Construction Costs.

Value engineering - knowing where to save money on a project - is an extension of this effort, and an integral part of every project. Unusual requests or items outside the scope of services will be addressed by clear communication between the K&S project manager and the City's project manager. Any work requested outside the agreed-to scope of services will be initiated after approval by both parties. Unforeseen issues that arise during the plan development, ones that would increase the cost of the project, will be immediately brought to the City's attention and followed up by coordinated recommendations and solutions.

Additionally, if warranted, a Best Management Plan for land use can be prepared, to present various alternatives during the design phase. This thorough analysis results in cost savings for our clients and conservation of environmental resources over time. As discussed in the Construction Bids section below, attentive bid document preparation by an experienced project manager precludes expensive problems later on during the construction phase. Bid document technical specifications will also include provisions for training for the proper operation and maintenance of the completed facilities.

The corrective action process for proposed improvements exceeding the forecasted budget during preliminary or final designed will be addressed in the following manner:

- Identify the reason for increased cost
- Evaluate alternative remedies
- Review alternatives with the City's Project Manager
- Implement consensus remedy

Based on the nature of the increase, the following procedures would be implemented:

Reason for Cost Increase	Corrective Action
Existing Site Conditions	Study & present alternative design or construction methods
Material	Consider substitution of material or reduce quantity
Quantity	Prioritize applications to reduce quantities and or substitute material
Design	Develop concepts solutions and implement the City's preferred option

Schedule Control

As described previously, our monthly project management meeting agendas include progress updates of schedules, and budgets. If a team member's task begins to get behind

schedule, the cause will be immediately identified. The course of corrective action will be based on the cause.

Reason for Delay	Corrective Action
Work Load	Other project assignments will be diverted to other staff members and or provide additional staff to the task until assignment is on schedule
Plan / Permitting Review	Coordinate with agency, engage government affairs members and The City's project manager if necessary, provide additional staff to reduce task times where beneficial to maintain schedule
Change in Scope / Work Plan Modifications	Coordinate with the City project manager, strategize acceleration of pertinent task and/or adjust schedule

Corrective Action

By following the procedures discussed above, deviations from the schedule and/or project costs are easily identified and remedied quickly. K&S can draw on the services of its nearly 300 professionals throughout the state if it becomes necessary to accelerate production. As mentioned previously, an Opinion of Construction Costs will be submitted during each phase of the design process and will accompany the final construction documents to monitor any additional value engineering required. If the project is found to exceed the City's budget, and design alternatives do not provide a solution, then a priority phasing plan will be coordinated with the City to meet budgetary requirements.

Construction Schedule Control

Once the construction contract has been awarded to a contractor, our services will continue to keep the project on schedule through construction administration. We are fully cognizant that late delivery of the project inconveniences the public, often involves increased administration and construction costs to the client, and may adversely affect the client's reputation. Consequently, we believe that timely completion and maintenance of schedule is of utmost importance on each project. In the pre-construction phase, a preliminary schedule is the most valuable tool to predict potential conflicts, overestimating/underestimating production, unrealistic milestones, interface conflicts, and more. We will also analyze all schedules for constructability and ensure that each activity and major component has the proper amount of time allotted for its completion.

Quality Control/Quality Assurance

K&S' production process requires an effective Quality Assurance/ Quality Control (QA/QC) program for each project. We incorporate and use a quality control plan using front check, back check, and quality control review for typical projects. We will use this method for the proposed project or tailor the review to correspond with requested tasks. At the tentative completion of construction documents and specifications, budgets and schedules will again be reviewed, allowing for minor adjustments. The construction documents and specifications will then be packaged for bidding, according to the scope of services.

Because we believe that our clients, our profession, and our projects deserve the highest quality products, we have an established quality control plan that is implemented on all our projects. Our Quality Control Plan is based on the philosophy that:

- Quality is achieved by proper planning,
- Quality is controlled through checking, reviewing and monitoring of work activities,
- Quality is verified by a senior manager performing QA/QC functions, and
- Quality is assured through independent reviews by professionals at each project stage.

Compliance with the QC program will be assured by periodic quality audits. These audits will help ensure that the program is being followed and that reviews are performed in a timely manner. All results of the audit are placed in the quality control file. Our QC team will also ensure that our subconsultants have acceptable QC plans.

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PBohlander@fortlauderdale.gov

ANTI-KICKBACK AFFIDAVIT

STATE OF FLORIDA)
: SS
COUNTY OF MONROE)

I, the undersigned hereby duly sworn, depose and say that no portion of the sum herein bid will be paid to any employees of the LRA of Key West as a commission, kickback, reward or gift, directly or indirectly by me or any member of my firm or by an officer of the corporation.

By: _____
Michael L. Davis

Sworn and subscribed before me this

28th day of June, 2011.

_____
NOTARY PUBLIC, State of Florida at Large

MARLENE PINNOCK
MY COMMISSION # DD 735215
EXPIRES: February 13, 2012
Bonded Thru Notary Public Underwriters

My Commission Expires: Feb 13, 2012

SWORN STATEMENT UNDER SECTION 287.133(3)(a)
FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICE AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted with Bid, Bid or Contract No. 11-004 for PROFESSIONAL LANDSCAPE ARCHITECTURAL/ ENGINEERING/ARCHITECTURAL/LAND SURVEYOR SERVICES FOR TRUMAN WATERFRONT UPLAND DESIGN AND CONSTRUCTION ADMINISTRATION

2. This sworn statement is submitted by Keith and Schnars
(Name of entity submitting sworn statement)

whose business address is 6500 North Andrews Avenue, Fort Lauderdale, FL 33309

_____ and (if applicable) its Federal Employer Identification Number (FEIN) is 59-1406307 (If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement.)

3. My name is Michael L. Davis and my relationship to
(Please print name of individual signing)

the entity named above is Vice President.

4. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including but not limited to, any Bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, material misrepresentation.

5. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(l)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication guilt, in any federal or state trial court of record relating to charges brought by indictment information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

6. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means

   1. A predecessor or successor of a person convicted of a public entity crime: or

   2. An entity under the control of any natural person who is active in the management of t entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

7. I understand that a "person" as defined in Paragraph 287.133(1)(8), Florida Statutes, means any natural

person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which Bids or applies to Bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

8. Based on information and belief, the statement, which I have marked below, is true in relation to the entity submitting this sworn statement. (Please indicate which statement applies.)

_X_ Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor any affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989.

___ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989, AND (Please indicate which additional statement applies.)

___ There has been a proceeding concerning the conviction before a hearing of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list. (Please attach a copy of the final order.)

___ The person or affiliate was placed on the convicted vendor list. Them has been a subsequent proceeding before a hearing officer of the Sate of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate from the convicted vendor list. (Please attach a copy of the final order.)

___ The person or affiliate has not been put on the convicted vendor list. (Please describe any action taken by or pending with the Department of General Services.)

_____
(Signature)
June 28, 2011
(Date)

STATE OF Florida

COUNTY OF Broward

PERSONALLY APPEARED BEFORE ME, the undersigned authority,

Michael L. Davis who, after first being sworn by me, affixed his/her signature in the
(Name of individual signing)

space provided above on this 28th day of June, 2011.

My commission expires: FEB 13, 2012
NOTARY PUBLIC

MARLENE PINNOCK
MY COMMISSION # DD 735215
EXPIRES: February 13, 2012
Bonded Thru Notary Public Underwriters

State of Florida

Department of State

I certify from the records of this office that KEITH AND SCHNARS, P.A. is a corporation organized under the laws of the State of Florida, filed on October 6, 1972.

The document number of this corporation is 603751.

I further certify that said corporation has paid all fees due this office through December 31, 2011, that its most recent annual report was filed on February 9, 2011, and its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

Given under my hand and the Great Seal of Florida, at Tallahassee, the Capital, this the Tenth day of February, 2011

Secretary of State

GREAT SEAL OF THE STATE OF FLORIDA
IN GOD WE TRUST

Authentication ID: **000193816560-021011-603751**

To authenticate this certificate, visit the following site, enter this ID, and then follow the instructions displayed.
https://efile.sunbiz.org/certauthver.html

ACORD

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 11/30/2010

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

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

PRODUCER
Seitlin
6700 N. Andrews Ave., Ste 300
Ft. Lauderdale FL 33309

CONTACT NAME:
PHONE (A/C, No, Ext): (954) 938-8788 FAX (A/C, No): (954) 938-8566
E-MAIL ADDRESS:
PRODUCER CUSTOMER ID #:

INSURED
Keith and Schnars, P. A.
6500 North Andrews Avenue
Ft. Lauderdale FL 33309

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A: St. Paul Fire & Marine	24767
INSURER B: Travelers Indemnity Co of CT	25682
INSURER C: Charter Oak Fire Insurance Co	25615
INSURER D: Ins. Co. of the State of PA	19429
INSURER E: Underwriters at Lloyds	
INSURER F:	

COVERAGES CERTIFICATE NUMBER: Cert ID 26882 REVISION NUMBER:

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

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
B	GENERAL LIABILITY							
	X COMMERCIAL GENERAL LIABILITY			P660-193X5294-TCT-10	8/14/2010	8/14/2011	EACH OCCURRENCE	$ 1,000,000
	CLAIMS-MADE X OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 300,000
	X Contractual Liab.						MED EXP (Any one person)	$ 10,000
	X XCU, Broad Form PD						PERSONAL & ADV INJURY	$ 1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$ 2,000,000
	X POLICY PRO-JECT LOC						PRODUCTS - COMP/OP AGG	$ 2,000,000
								$
C	AUTOMOBILE LIABILITY							
	X ANY AUTO			P810-290K8594-COF-10	8/14/2010	8/14/2011	COMBINED SINGLE LIMIT (Ea accident)	$ 1,000,000
	ALL OWNED AUTOS						BODILY INJURY (Per person)	$
	SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	X HIRED AUTOS						PROPERTY DAMAGE (Per accident)	$
	X NON-OWNED AUTOS							$
								$
A	X UMBRELLA LIAB X OCCUR			QK06803864	8/14/2010	8/14/2011	EACH OCCURRENCE	$ 5,000,000
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	$ 5,000,000
	DEDUCTIBLE						PROD/CO-OPS AGG	$ 5,000,000
	RETENTION $							$
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			WC5226685	12/1/2010	12/1/2011	X WC STATU-TORY LIMITS OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N	N / A					E.L. EACH ACCIDENT	$ 1,000,000
	(Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$ 1,000,000
							E.L. DISEASE - POLICY LIMIT	$ 1,000,000
E	Maritime Employers Liability			F12M1M697-3081-10	12/1/2010	12/1/2011	CSL: $1,000,000 Any one accident or illness	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
PROOF OF INSURANCE ONLY.

CERTIFICATE HOLDER

KEITH AND SCHNARS, P.A.
6500 N. ANDREWS AVE
FORT LAUDERDALE FL 33309

CANCELLATION

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

AUTHORIZED REPRESENTATIVE

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ACORD®

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 2/24/2011

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

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PRODUCER
Ames & Gough
8300 Greensboro Drive
Suite 980
McLean, VA 22102

CONTACT NAME:
PHONE (A/C, No, Ext): (703) 827-2277 FAX (A/C, No): (703) 827-2279
E-MAIL ADDRESS:
PRODUCER CUSTOMER ID #: 00002075

INSURED
Keith and Schnars, P.A.
6500 North Andrews Avenue
Ft. Lauderdale FL 33309-2132

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A: Continental Casualty Company	20443
INSURER B:	
INSURER C:	
INSURER D:	
INSURER E:	
INSURER F:	

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

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

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	GENERAL LIABILITY						EACH OCCURRENCE	$
	COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence)	$
	CLAIMS-MADE OCCUR						MED EXP (Any one person)	$
							PERSONAL & ADV INJURY	$
							GENERAL AGGREGATE	$
	GEN'L AGGREGATE LIMIT APPLIES PER: POLICY PRO-JECT LOC						PRODUCTS - COMP/OP AGG	$
								$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$
	ANY AUTO						BODILY INJURY (Per person)	$
	ALL OWNED AUTOS						BODILY INJURY (Per accident)	$
	SCHEDULED AUTOS						PROPERTY DAMAGE (Per accident)	$
	HIRED AUTOS							$
	NON-OWNED AUTOS							$
	UMBRELLA LIAB OCCUR						EACH OCCURRENCE	$
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	$
	DEDUCTIBLE							$
	RETENTION $							$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY						WC STATUTORY LIMITS OTHER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y/N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A					E.L. EACH ACCIDENT	$
							E.L. DISEASE - EA EMPLOYEE	$
							E.L. DISEASE - POLICY LIMIT	$
A	PROFESSIONAL LIABILITY			AEH 00 609 12 27	3/1/2011	3/1/2012	PER CLAIM	2,000,000
							AGGREGATE	4,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER

For Proposal Purposes Only

CANCELLATION

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

AUTHORIZED REPRESENTATIVE

Dan Knise/BHARRI

ACORD 25 (2009/09)
INS025 (200909)

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