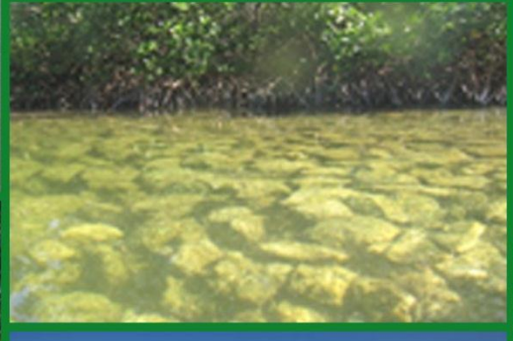
City of Key West

GENERAL ENGINEERING SERVICES

RFQ #12-005



CORZO CASTELLA CARBALLO THOMPSON SALMAN
Architects
Engineers
Planners

July 31, 2012

City of Key West
Office of the City Clerk
3126 Flagler Avenue
Key West, Florida 33040

Attention: Cheri Smith
City Clerk

Reference: Request for Qualifications for General Engineering Services
RFQ No. 12-005

Dear Ms. Smith:

The firm of Corzo Castella Carballo Thompson Salman, P.A. (C3TS) is pleased to submit this Letter of Interest and Statement of Qualifications for the above referenced project for your review and consideration. Please note that our company is submitting for the following categories:

EB0005022
AAC002142

- ✓ Civil Engineering Services
- ✓ Utility Engineering Services
- ✓ Coastal Engineering Services
- ✓ Environmental Engineering Services

C3TS is widely recognized as a multi-discipline, engineering and architectural firm with extensive background in the design and planning of new roadway and public facilities, roadway enhancement projects, water and sewer utility projects and rehabilitation of existing properties and facilities similar to those currently operated by the City of Key West. In fact, municipal and other public sector engineering comprises the bulk of our historical and current workload. C3TS's in-house design team includes municipal, civil, environmental, architectural, and engineering disciplines with extensive experience in the planning, design and rehabilitation of all types of public facilities. We are fortunate to have been awarded over 45 of these continuing services contracts for various public sector agencies throughout South Florida, including many through successive elected official regimes. The success of these contracts has provided C3TS with a clear understanding of these services that we must remain on call and provide immediate response for the needs at hand.

C3TS has worked with numerous local municipalities under General or Continuing Service contracts throughout the area, including the Village of Islamorada and FDEP (State Park system). Additionally, we have worked on a number of Capital projects in the area including a runway pavement investigation for Boca Chica NAS, the FDOT CEI services for SR A1A in Key West, the FHP Police Station in Marathon, the Marathon City Park Expansion, the Environmental Assessment of Houseboat Row Seagrass Restoration in Key West, and the Jacobs Aquatic Complex on Key Largo to name a few. Our strength lies in our resources and strategic office locations throughout the state. Our office locations are in Coral Gables (headquarters), Fort Lauderdale, Boca Raton, West Palm Beach, and Orlando. These offices are managed and manned by Principals of the firm that respond immediately to our clients needs. Our Coral Gables office, with its 102 employees, will be managing this project for the City of Key West. In addition, a representative of the firm currently lives and works in Key West.

C3TS has the advantage of being a full service firm, with a broad array of in-house services. In addition to the full range of Civil Engineering services, we have divisions for Transportation, Traffic, and MEP Engineering, Architecture, Environmental Sciences, Public Information, and Construction Management / Construction Engineering Inspections. The inclusion of a variety of in-house services allows us to provide a unified and comprehensive approach to projects that avoids the tunnel vision syndrome of firms with a narrow focus.

Our extensive work with counties and municipalities has given us experience in a wide variety of projects. Our utility experience includes extensive water, sewer and force main expansion as well as pump station design, treatment plant expansion and rehabilitation. Our drainage experience varies from numerous local drainage improvement projects to vast regional drainage studies and master plans. Additional engineering experience includes numerous roadway improvements including widenings, reconstruction, drainage upgrades, and signalized intersections, as well as major highway and interchange work. We also have extensive experience in governmental and recreational facilities such as fire stations, maintenance facilities, community centers, active and passive parks, marinas, aquatic facilities, sensitive wetlands boardwalk parks, and gymnasiums. Our vast experience has also allowed us to perform more advanced consulting services beyond fundamental design and include rate studies, I/I investigations & studies, infrastructure modeling, CIP Programming, NPDES programs, drainage master planning, code evaluations, grant acquisition, public information, etc., which have all been provided for various governmental agencies.

C3TS also offers a full-scale architectural department which has provided services to clients on numerous public facilities such as community centers, gymnasiums, park buildings, City Hall additions, roofing rehabilitations, maintenance facilities and space planning. Furthermore, our architectural department works in conjunction with our Civil Engineers on projects where aesthetics are especially important. With this approach, we have performed numerous neighborhood improvement projects including traffic calming, street beautification, road closures, abandonments and neighborhood entry features and guardhouses. This experience provides our engineers with a more holistic view of each project and allows for a much greater ability to “think outside of the box”.

Our full-scale structural engineering division has experience in buildings, bridges, retaining walls, tanks and miscellaneous site structures. We have much experience in new structures and renovations as well as expertise in forensic investigations and advanced structural rehabilitations and repair, including repairs using new and innovative repair techniques such as carbon fiber techniques. Our building structural engineers have experience with a multitude of building construction techniques such as tilt-up construction, precast and post tensioned design, tunnel form construction, CBS and timber design. They are extremely knowledgeable of the new FBC 2010 edition and the ramifications of the new code revisions. Our marine structures staff is also experienced with the impacts of the new code as well as designing for hurricane strength loading parameters, in particular the affects of wind and wave set up.

In addition to our own in-house capabilities, C3TS is highly skilled in the coordination of design team consultants and can add geotechnical (PSI, Inc.), surveying (Reese & White Land Surveying, Inc.) and local environmental permitting (TerraMar Environmental Services, Inc.) as needed for any project. These are the same team members that have worked under our other local contracts.

Our experience derives from having worked throughout Florida, knowing the local construction markets, and the regulatory agencies that permit the projects. One of the main goals of our firm is to establish good working relationships within the

communities that we service. In providing professional services to local communities, we offer our knowledge of the construction and regulatory environment, our commitment to providing excellent service to each project, and our experience with the local conditions.

Mr. Ramon Castella, P.E., will be serving as Principal in Charge, with Mr. Jorge Corzo, P.E., CFM, serving as Quality Assurance / Quality Control Manager and Mr. Dan Grandal, P.E., CFM, LEED AP, will be serving as Project Manager and Contract Manager. Additionally, we have assigned personnel from all of our departments to be available as needed for the City. Mr. Grandal will act as a single point of contact to ensure that the right personnel are assigned to the project and have the resources necessary to be successful. Our submittal shows a wide variety of professionals available to be assigned to respond to the City's needs. We encourage you to review the submittal to see the wide variety of challenges that C3TS can meet on behalf of the City and we ensure that all the information submitted is complete and accurate. The City may also contact any of our previous clients, as we have a great relationship with them.

C3TS also has an aggressive quality control program, which is similar in nature to the plan currently implemented by the Florida Department of Transportation. However, we have modified and improved the plan to the point where we are pleased to hold one of the highest design ratings of any firm in the State of Florida. The performance rating is based on grades given for design with emphasis on percent complete versus schedule, errors and omissions, changes, overruns, accuracy of cost estimates, and actual field changes during construction. Without a proper quality control plan, this degree of thoroughness could not be attained.

With such relevant experience and expertise, we are confident that we are the best team for this contract. We appreciate this opportunity to express our sincere interest in being of service to the City of Key West and we look forward to continuing our rewarding relationship. Please find enclosed our qualifications, which includes our firm profile, organizational chart of all key project personnel, relevant experience, and management approach. We thank you for the opportunity to outline our team's qualification and would look forward to working with the City of Key West.

We will be glad to answer any and all questions to your satisfaction. Feel free to call on us at (800) 448-0227 or via email at rcastella@c3ts.com.

Sincerely,

Corzo Castella Carballo Thompson Salman, P.A. (C3TS)

Ramon Castella, P.E.
Vice President

City of Key West

GENERAL ENGINEERING SERVICES

RFQ #12-005

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GENERAL ENGINEERING SERVICES

RFQ #12-005

FIRM PROFILE

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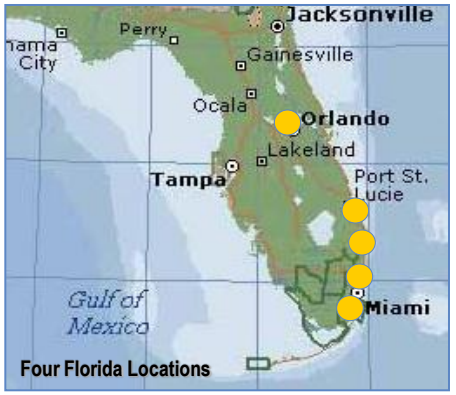


C3TS is a locally-based Subchapter S Corporation founded in March 1988 in Miami, Florida. It is a full-service, multi-disciplined Architectural, Engineering, Environmental Sciences, Public Relations, and Urban Planning firm with offices in Coral Gables (Main Office), Fort Lauderdale, Boca Raton, and Orlando, Florida. We have been providing our services to public and private sector clients for over 24 successful years. The firm has grown from a group of 3 friends to a staff of over 140 employees in 5 offices statewide.

C3TS firm was created out of the desire to better serve our clients and derive the professional satisfaction from being able to more effectively control all aspects of a project. Whether the project is a building, road or bridge, all of the divisions work together to make the final project the best it can be. With in-house teams including civil, environmental sciences, architecture, roadway, structural, traffic & transportation design, planning, MEP, grants, and public involvement, in addition to construction engineering inspections, C3TS caters to large institutional and governmental clients who need the integrated, innovative solutions C3TS provides. With over 120 combined years of experience among the principals, our clients have come to value our unique combination of integrated disciplines and commitment to excellence. The firm's staff has extensive experience in the planning, design and implementation of large-scale projects throughout Florida and the Southeastern United States.

C3TS' experience includes projects and services as diverse as coastal and marine facilities, award-winning highway and bridge design, park and recreation facilities, streetscapes, office buildings, emergency/fire station buildings, educational campus design and school facilities drainage, citywide planning, acquisition of grant funds, historic preservation, and other types of public buildings and facilities. Although working primarily in the Southeastern United States, the firm's experience is not limited to the US market.

C3TS' success is based on both the hands-on approach taken by the principals and associates together with the integration of its disciplines in the delivery of successful solutions. In addition, all projects are subjected to a rigorous in-house Quality Assurance / Quality Control Program which spans the life of the project. It is this constant attention to client and project needs which has resulted in C3TS' proven track record of consistent on-time and within-budget project delivery.

Our corporate philosophy is to maintain professional and attentive relationships with our clients, focusing equally on their needs as on their project's solutions. C3TS is committed to excellence in providing professional design services resulting in complete solutions for our clients. This results in over 90% of our workload coming from existing and past clients. The firm's computer capabilities include a wide array of CADD systems (MicroStation and AutoCAD), design software, and modeling packages (Geopak and Road Calc). These systems, in the hands of our experienced architects and engineers, assist us in producing high quality designs and construction documents quickly and efficiently.

C3TS is committed to excellence in providing professional design services resulting in complete solutions for our clients no matter what the project.

FIRM PROFILE

Terramar Environmental Services, Inc.

Terramar Environmental Services, Inc. is an environmental consulting firm located in the Lower Florida Keys and has been operating full time since 2004. The firm specializes in marine and terrestrial environmental assessments and environmental resource permitting in the Florida Keys. The firm is owned by Philip A. Frank. Ph.D. and Rowena P. Garcia. Dr. Frank has over 26 years of experience conducting environmental regulatory work throughout Florida and the Florida Keys, working as a private consulting biologist and also as a regulatory biologist with the U.S. Fish and Wildlife Service and Florida Fish and Wildlife Conservation Commission. Ms. Garcia has over 18 years of regulatory experience in the Florida Keys, working for the Department of Environmental Protection, Department of Community Affairs, the FWC, and the Nature Conservancy. Terramar Environmental Services, Inc. has recently completed several projects in within the City of Key West including a biological inventory use in permitting repairs to Mallory Square Pier, permitting the replacement of the4 Marlin Pier in Garrison Bight, permitting coral relocation for the White Street Pier, and completing a benthic resource assessment for repairs to the Outer Mole Pier.

Reece & White Land Surveying, Inc.

Reece & White Land Surveying, Inc., formerly R.E. Reece, P.A., is a professional surveying and mapping firm providing a wide range of surveying services including construction stake-out, boundary and section work, topographic and hydrographic surveying and GPS. Our varied client base includes contractors, engineers, architects, attorneys, realtors and private individuals. Our firm located in Big Pine Key, Florida has been surveying in the Florida Keys for more than 15 years. We are members in good standing of the Florida Surveying and Mapping Society.

Professional Service Industries, Inc.

Professional Service Industries, Inc. is a nationally recognized consulting engineering and testing firm providing integrated services in several disciplines, including geotechnical engineering, construction services, materials engineering & testing, roof & pavement consulting, asbestos management, and facilities consulting and engineering. With approximately 2,500 professional engineers, materials testing inspectors, field and laboratory technicians and support personnel in 125 offices across the country, we are a leader among the nation's independent testing organizations and rank among the country's largest consulting engineering firms. PSI was incorporated in Delaware in June 26, 1972, with corporate headquarters located in Oakbrook Terrace, Illinois. Established in Florida in 1975 and licensed to provide Engineering Services, we have a team of more than 300 professionals located within 13 offices throughout the state. Our service area encompasses nearly every city and county in Florida, as well as 38 additional states in the U.S.

PSI's capability and capacity to timely complete the work is evidenced by our response time methodology, our experience and resources, as well as the successful completion of numerous similar projects. The nature of PSI's consulting business is the performance of many tasks of relatively short duration for multiple clients. Even our long-term contracts are of the indefinite quantity type, and thus, actual workload is dependent upon the release of individual task authorizations. As a result, no individual staff member is totally dedicated to a single project for long periods of time and we will always have ample field and laboratory capabilities to rapidly and effectively respond to our clients. This operating environment promotes the discipline required to be flexible and sensitive to changing client needs.

LICENSES AND CERTIFICATES

State of Florida
Department of State

I certify from the records of this office that CORZO CASTELLA CARBALLO THOMPSON SALMAN, P.A. is a corporation organized under the laws of the State of Florida, filed on March 30, 1988, effective March 28, 1988.

The document number of this corporation is K19612.

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 Fifth day of January, 2011

Secretary of State

Authentication ID: 300189299083-010511-K19612

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

State of Florida
Department of State

I certify from the records of this office that C3TS is a Fictitious Name registered with the Department of State on May 12, 2011.

The Registration Number of this Fictitious Name is G11000045800.

I further certify that said Fictitious Name Registration is active.

I further certify that this office began filing Fictitious Name Registrations on January 1, 1991, pursuant to Section 865.09, Florida Statutes.

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

Secretary of State

Authentication ID: 300207595583-051311-G11000045800

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

State of Florida
Board of Professional Engineers

Corzo Castella Carballo Thompson Salman, 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: 228201303105
CA. LIC. NO: 5022

State of Florida
Board of Professional Engineers

C3TS

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: 228201302463
CA. LIC. NO: 7274

AC# 5400281

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF ARCHITECTURE & INTERIOR DESIGN
SEQ# L11010401072

DATE	BATCH NUMBER	LICENSE NBR
01/04/2011	100285745	AAC002142

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

CORZO CASTELLA CARBALLO THOMPSON SALMAN PA
901 PONCE DE LEON BLVD
SUITE 900
CORAL GABLES FL 33134

RICK SCOTT
GOVERNOR

CHARLIE LIEM
SECRETARY

DISPLAY AS REQUIRED BY LAW

LICENSES AND CERTIFICATES

GBCI

GREEN BUILDING CERTIFICATION INSTITUTE

HEREBY CERTIFIES THAT

Ramon Castella

HAS ACHIEVED THE DESIGNATION OF

LEED® ACCREDITED PROFESSIONAL

BY DEMONSTRATING THE KNOWLEDGE OF GREEN BUILDING PRACTICE REQUIRED FOR SUCCESSFUL IMPLEMENTATION OF THE LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED®) GREEN BUILDING RATING SYSTEM™.

Chairman

May 15, 2009
Date Issued

Peter Templeton, President

Printed on 50% bamboo fibers / 50% post-consumer fibers with vegetable based inks.

GBCI

GREEN BUILDING CERTIFICATION INSTITUTE

HEREBY CERTIFIES THAT

Heather Anesta

HAS ACHIEVED THE DESIGNATION OF

LEED® ACCREDITED PROFESSIONAL

BY DEMONSTRATING THE KNOWLEDGE OF GREEN BUILDING PRACTICE REQUIRED FOR SUCCESSFUL IMPLEMENTATION OF THE LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED®) GREEN BUILDING RATING SYSTEM™.

Chairman

June 12, 2009
Date Issued

Peter Templeton, President

Printed on 50% bamboo fibers / 50% post-consumer fibers with vegetable based inks.

GBCI

GREEN BUILDING CERTIFICATION INSTITUTE

HEREBY CERTIFIES THAT

Daniel J. Grandal

HAS ACHIEVED THE DESIGNATION OF

LEED® ACCREDITED PROFESSIONAL

BY DEMONSTRATING THE KNOWLEDGE OF GREEN BUILDING PRACTICE REQUIRED FOR SUCCESSFUL IMPLEMENTATION OF THE LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED®) GREEN BUILDING RATING SYSTEM™.

Chairman

May 15, 2009
Date Issued

Peter Templeton, President

Printed on 50% bamboo fibers / 50% post-consumer fibers with vegetable based inks.

GBCI

GREEN BUILDING CERTIFICATION INSTITUTE

HEREBY CERTIFIES THAT

Sean Compel

HAS ACHIEVED THE DESIGNATION OF

LEED® ACCREDITED PROFESSIONAL

BY DEMONSTRATING THE KNOWLEDGE OF GREEN BUILDING PRACTICE REQUIRED FOR SUCCESSFUL IMPLEMENTATION OF THE LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED®) GREEN BUILDING RATING SYSTEM™.

Chairman

May 15, 2009
Date Issued

Peter Templeton, President

Printed on 50% bamboo fibers / 50% post-consumer fibers with vegetable based inks.

GBCI

GREEN BUILDING CERTIFICATION INSTITUTE

HEREBY CERTIFIES THAT

Carlos Herdocia

HAS ACHIEVED THE DESIGNATION OF

LEED® ACCREDITED PROFESSIONAL

BY DEMONSTRATING THE KNOWLEDGE OF GREEN BUILDING PRACTICE REQUIRED FOR SUCCESSFUL IMPLEMENTATION OF THE LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED®) GREEN BUILDING RATING SYSTEM™.

Chairman

May 15, 2009
Date Issued

Peter Templeton, President

Printed on 50% bamboo fibers / 50% post-consumer fibers with vegetable based inks.

LICENSES AND CERTIFICATES

Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

ANANTH PRASAD, P.E.
SECRETARY

June 21, 2012

Robert T. Carballo, P.E., President
Corzo Castella Carballo Thompson Salman, P.A.
901 Ponce de Leon Boulevard, Suite 900
Coral Gables, Florida 33134

Dear Mr. Carballo:

The Florida Department of Transportation has reviewed your application for qualification package and determined that the data submitted is adequate to qualify your firm for the following types of work:

Group 2	- Project Development and Environmental (PD&E) Studies
Group 3	- Highway Design - Roadway
3.1	- Minor Highway Design
3.2	- Major Highway Design
3.3	- Controlled Access Highway Design
Group 4	- Highway Design - Bridges
4.1.1	- Miscellaneous Structures
4.1.2	- Minor Bridge Design
4.2.1	- Major Bridge Design - Concrete
4.2.2	- Major Bridge Design - Steel
Group 5	- Bridge Inspection
5.1	- Conventional Bridge Inspection
5.4	- Bridge Load Rating
Group 6	- Traffic Engineering and Operations Studies
6.1	- Traffic Engineering Studies
Group 7	- Traffic Operations Design
7.1	- Signing, Pavement Marking and Channelization
7.2	- Lighting
7.3	- Signalization
Group 9	- Soil Exploration, Material Testing and Foundations

www.dot.state.fl.us

LICENSES AND CERTIFICATES

9.1 - Soil Exploration
9.4.1 - Standard Foundation Studies

Group 10 - Construction Engineering Inspection

10.1 - Roadway Construction Engineering Inspection
10.3 - Construction Materials Inspection

Group 11 - Engineering Contract Administration and Management

Group 13 - Planning

13.5 - Subarea/Corridor Planning
13.6 - Land Planning/Engineering

Group 14 - Architect

Your Unlimited Notice of Qualification shall be valid until June 30, 2013 at such time as your December 31, 2012 overhead audit will be due to comply with the Department's requirement on overhead audits. We will automatically notify your firm 45 to 60 days prior to your update deadline.

On the basis of data submitted the Department has approved your accounting system and considers the rates listed below as acceptable provisional rates for qualification purposes.

	Home/Branch Office	Field Office	Facilities Capital Cost of Money	Overtime Premium	Direct Expense
Overhead Rate	176.42%	132.40%	0.473%	Reimbursed	1.82%Home) 28.50%(Field)*

*Rent and utilities excluded from field office rate. These costs will be directly reimbursed on contracts that require the consultant to provide field office.

Should you have any questions, please feel free to contact me at 850/414-4485.

Sincerely,

Lorraine E. Odom

Lorraine E. Odom
Professional Services
Qualification Administrator

LEO/cmr

City of Key West

GENERAL ENGINEERING SERVICES

RFQ #12-005

TEAM ORGANIZATION CHART & RESUMES

TEAM ORGANIZATIONAL CHART

City of Key West

Ramon Castella, P.E., LEED AP (C3TS)
Principal in Charge

Jorge Corzo, P.E. CFM (C3TS)
QA/QC Manager

Daniel Grandal, P.E., CFM, LEED AP (C3TS)
Project Manager

Thomas A. Charette (C3TS)
Local Representative

COASTAL / MARINE ENGINEERING

Terrance N. Glunt, P.E. (C3TS)
Senior Marina Engineer

Heather Anesta, P.E., LEED AP (C3TS)
Marine Structural Engineer

Manuel Solaun, P.E. (C3TS)
Senior Bridge Engineer

ENVIRONMENTAL SERVICES

Jeffry Marcus, Ph.D. (C3TS)
Senior Environmental Scientist

Philip Frank, Ph.D. (TME)
Senior Environmental Scientist

CONSTRUCTION ADMINISTRATION & INSPECTION

Thomas A. Charette (C3TS)
Construction Manager

Sean Compel, P.E., LEED AP (C3TS)
Construction Engineer

Danilo Caicedo, E.I. (C3TS)
Construction Inspector

CIVIL ENGINEERING

Carlos Herdocia, P.E., LEED AP (C3TS)
Senior Roadway Engineer

Diana Sudasassi-Bilbao, P.E. (C3TS)
Traffic Calming / Streetscaping

William Francis, P.E. (C3TS)
Senior Civil Geotechnical Specialist

UTILITY ENGINEERING

Rodrigo Rodriguez, P.E. (C3TS)
Senior Utility Engineer

Edward Dvorak, P.E., CCS (C3TS)
Senior Utility Engineer

Dave Clarke, P.E. (C3TS)
Utility Engineer

SURVEYING SERVICES

Joe Robert White, PSM (RWS)
Surveyor and Mapper

GEOTECHNICAL SERVICES

Paul Passe, P.E., CPM (PSI)
Chief Geotechnical Engineer

Dhuruva (Drew) Badri, P.E. (PSI)
Project Geotechnical Engineer

PROJECT TEAM		LOCATION
C3TS:	Corzo Castella Carballo Thompson Salman, P.A.	Key West & Coral Gables, FL
TME:	TerraMar Environmental Services, Inc.	Sugarloaf Key, FL
RWS:	Reece & White Land Surveying, Inc.	Big Pine Key, FL
PSI:	Professional Service Industries, Inc.	Miami, FL

EXPERIENCE

Mr. Castella has over 27 years of expertise in Civil Engineering Projects throughout Florida and in the Caribbean. He has extensive experience with Municipal engineering projects, including the programming, planning, and preparation of construction documents as well as construction administration. Projects range from marine projects to the development of park facilities and expansion of Municipal buildings. His public works projects include drainage, flood control, coastal construction, water and sewer expansions, road and bridge construction, municipal land planning and grant acquisition. His projects include:

- **Crandon Park Marina Reconstruction - Phase I, Miami-Dade County, Florida** - Project Manager in charge of design services and construction inspections for this Miami-Dade County Park & Recreation's Flagship Marina. Four of the existing piers shall be replaced with floating docks, new utility services are being provided for these piers and four future replacement piers, bulkhead rehabilitation, maintenance dredging, and replacement of eight boat ramp finger piers.

- **Matheson Hammock Park Marina Reconstruction, Miami-Dade County, Florida -** Project Manager in charge of design services and construction inspections for this Dade County Park & Recreation's Flagship Marina under a Design Build. Six of the existing piers shall be replaced with floating docks, new utility services are being provided for these piers, bulkhead rehabilitation, maintenance dredging, and replacement of eight boat ramp finger piers.

- **Fort Pierce Inlet Marina Boat Ramp Facilities –** Principal in Charge for this recreational boat ramp facility featuring 4 boat ramps, floating dock finger piers, 2 staging areas, concrete seawall and cap, rip-rap revetments, parking for 75 vehicles with trailers, passenger car parking, drainage and wetlands areas, water, sewer and electrical service, lighting, information kiosks and turn lane access from State Highway with entrance feature.

- **Marine Max Facility at Ocean Reef Club, Key Largo, Florida –** Principal in Charge for the engineering design, permitting and construction administration for the replacement of 350 linear feet of failing concrete T-pile and panel seawall with a cantilevered steel sheet pile wall. The project included the rehabilitation of floating dock units with 24 slips – including new concrete piles, pile guides and PT timber whalers. The project also included the reconstruction of a reinforced boat-forklift platform, and new electrical and water system with Marina Power seawall-mounted pedestals.

- **Village of Pinecrest Watermain Master Plan and System Design, Pinecrest, Florida –** Senior Project Engineer for this design project that included the design of over 12 miles of watermain to complete the potable water system of the entire Village. The Master Plan was prepared that included a computerized model of the entire system and public workshops and meetings were held to inform and educate the residents of the extensive work and cost involved in the project. C3TS also prepared special taxing districts to better explain the finances of the project. The two phases of construction provided potable water to over 550 properties previously connected to individual private wells. This successful project also included the implementation of a system during construction to allow each homeowner to select the best location for their new water meter.

- **Town of Golden Beach Capital Improvements Program, Golden Beach, Florida –** Principal in Charge for this comprehensive Capital Improvements Program Master Plan that focuses on several major improvement areas: town-wide drainage improvements; utilities underground relocation (electrical, telephone, cable); town-wide streetscape & traffic calming; and renovation to the Town's existing Town Hall building. The Master Plan carefully considered the each of these with respect to feasibility, cost/benefit, and design, as well as an analysis of funding options and scenarios, and schedule for phasing and implementation.

- **Crandon Boulevard Master Plan, Key Biscayne, Florida –** Principal in Charge of design for this project that takes an existing suburban style highway and transforms it into a center of community activities. By promoting the safe and secure transit of all types of vehicles and pedestrians, this CPTED-friendly design also serves to create a source of identity for the community connecting retail, residential, public parks and government facilities into a cohesive design. The project consisted of a master plan that encompassed the design for a 4-lane divided road, improved public safety, easing of traffic congestion, traffic calming, pedestrianization, improved mass transit, streetscape improvements, sidewalks, lighting, and a roundabout.

- **Palmetto Bay Villagewide Neighborhood Drainage Improvements, Palmetto Bay, Florida** – Senior Project Engineer of the field surveying, design, permitting, bidding, and construction administration of drainage improvements at 10 locations throughout the Village. These 10 areas were identified by the Village as having flooding problems. The improvements included new drainage structures, exfiltration trenches, outfalls, and asphalt overlays. The project was completed on schedule and under budget.

EDUCATION

Bachelor of Science in Civil Engineering, Florida International University, 1985

PROFESSIONAL REGISTRATION

Florida Professional Engineer License No. 40073

Puerto Rico Professional Engineer License No. 11731 (inactive)

LEED Accredited Professional

EXPERIENCE

Mr. Grandal has over 19 years of experience in design and construction of civil engineering and site development projects. He has served as a project manager and project engineer for various drainage, water and sewer projects. He was a plan reviewer for Miami-Dade DERM. He has a broad understanding of permitting requirements of Miami-Dade County Department of Public Works (DPW), Permitting Environment and Regulatory Affairs, DERM, SFWMD, and FDEP. His drainage experience has included Environmental Resource Permitting (ERP), multi-basin floodplan analysis, cut and fill analysis and wetland mitigation. He is proficient at various software packages including ICPR, MBR (SFWMD Multi-Basin Routing Software), Flowmaster, AutoCAD, AutoTurn and EaglePoint. Some of his experience includes:

- **Shrimper's Row Dock Facility, Miami, Florida –** Project Manager for this schematic design and feasibility study for Miami-Dade County Parks for rehabilitation of an existing facility located South of Matheson Hammock Marina. Improvements included docks for 21 slips with wood bulkheads and rubble rip rap revetment. Other improvements included paved access road, water and lighting.
- **Belle Meade Drainage Improvements, Miami, Florida** – Project Manager of this $8 million project which consisted of the design and permitting of a drainage and streetscape improvement project encompassing several miles of road in a developed coastal flood-prone neighborhood providing quality treatment through the use of exfiltration trenches and storm water treatment units and discharging through a large stormwater pump station to the Little River Canal. Permitting included pre/post computer modeling and stage calculation for Miami-Dade's Class II Surface Water Management Permit.
- **Miami Gardens Canal Bank Stabilization Project, Miami Gardens, Florida –** Project Manager for this design-build canal bank stabilization project that included over 3000 linear feet of canal bank, 2 large culvert headwall, reconstruction of 12 stormwater outfalls, and outfalls structures. Permitting included a Class III permit throughout PERA Water, Miami-Dade Public Works. Additionally the project also included construction management inspections and grant management. A stacking system was used for the canal bank to reestablish the banks by preventing future erosion.
- **Miami Beach Design Criteria for Sunset Island 3, Sunset Island 4, Palm Island, and Hibiscus Island, Miami Beach, Florida –** Project Engineer for the preparation of design-build criteria packages including design development plans. This project was a full reconstruction project of Sunset Island 3, Sunset Island 4, Palm Island, and Hibiscus Island. The scope of work includes drainage, roadway, water, sewer, landscaping, lighting, and undergrounding of utilities (FPL, ATT and Comcast). Project also includes cost estimating, maintenance of traffic, scheduling, storm water pollution prevention, permitting, and construction management.
- **Pinecrest C100-A Culverts Repairs and Drainage Improvement, Pinecrest, Florida –** Project Engineer in charge of study (report), design and permitting for the reconstruction of existing culvert and armored embankment that had been eroded by surface water runoff to the point of failure. Several alternatives were analyzed using a cost/benefit analysis to determine the best solution. The culvert riprap was reconstructed and extended to stabilize the eroded embankments and drainage was added to eliminate the future washing out of the riprap over time by the street runoff
- **Grove Park Drainage and Roadway Improvements, Miami, Florida –** Project Manager for drainage and roadway improvement project for the Grove Park area in the City of Miami. The Grove Park area is an existing residential neighborhood encompassing ½ square mile which was identified as flood-prone area. General Development Report was prepared to evaluate the existing road and drainage conditions, develop alternative improvements and cost estimates, and to recommend a preferred alternative on comprehensive roadway analysis, drainage analysis, public involvement, and research of existing right-of-way, and flood complaints.
- **Miami Beach Botanical Gardens, Miami Beach, Florida –** Project Engineer for civil design and permitting of complete reconstruction of this 1.8 acre garden development including water and sewer services, grading and drainage. The project also included water features and improvements to the existing building.
- **Midway Stormwater Pump Station, Miami, Florida -** Project Manager for the design and permitting of a stormwater pump station and forcemain under the SR 826 discharging to the North Line Canal through an energy dissipating structure and outfall. The pump station will transmit the runoff collected from the redesigned collection system to the North Line Canal through directionally bored twin 24-inch diameter carrier pipes in two 36-inch HDPE casing pipes that cross under FDOT's SR-826 Expressway. The system was modeled resulting in collection system improvements to provide adequate flood protection to the area.

EDUCATION

Bachelor of Science In Civil Engineering, Tulane University, 1993

Minor in Environmental Engineering

PROFESSIONAL REGISTRATION

Florida Professional Engineering License No. 53850

Certified Floodplain Manager

LEED Accredited Professional

EXPERIENCE

Mr. Charette has over 25 years of experience providing civil engineering concepts and practices related to planning, layout, design, and construction of facilities. He was employed by the Department of Defense as the Civil Engineer for the Public Works Department of Naval Air Station in Key West, Florida. His primary duties as a lead engineer were related to all phases of the development, design and construction of large civil and structural projects. For these projects his tasks included generating scopes and cost estimates based on inspection of buildings, infrastructure, grounds and/or facilities, evaluating A&E firms, awarding design contracts to A&E firms, working on site with A&E firm's staff, evaluating all phases of design documents, assisting with the award of the construction contract and providing engineering support during construction. Mr. Charette tasks for smaller projects were to create complete construction documents ready for award, assist with the award of the construction contract and provide engineering support during construction. Duties also included providing engineering support for projects being developed by other lead engineers or architects and to assist the maintenance department of Naval Air Station Key West when engineering was required. Mr. Charette also has extensive experience with the design and quality assurance of major roadway projects. Some of his relevant work experience includes:

Naval Air Station Experience

Major projects - Work with Architect-Engineering firms to develop construction documents, requests for proposals and studies.

Duties during this design phase or study include:

- Performing field investigations to gather information required to develop project scopes;
- Researching guidance, technical literature and regulation that affect projects;
- Preparing project scopes and Government cost estimates;
- Assuring that the A/E's have all available criteria and directives;
- Providing technical and administrative guidance to the A/E during their preparation of drawings, specifications and material selection;
- Acting as a focal point for coordination of design criteria and information with the A/E, the customer and other interested Government representatives;
- Reviewing plans and specifications prepared by the A/E;
- Monitoring the progress of the design; and
- Assuring that all work required by the design contract has been completed.

During construction duties include:

- Performing field investigations involving problems that require direction for corrective action and may require changes in the design due to latent conditions;
- Analyzing and interpreting contract drawings and specifications to determine the extent of the contractor's responsibilities under the provisions of the contract;
- Recommending solutions to controversial situations including those which are due to the misinterpretation of contract documents;
- Reviewing and evaluating proposed change to the contract then recommend approval or disapproval;
- Preparing Government cost estimates for approved changes;
- Providing technical review and recommendations for the resolution of contractor claims.

Smaller projects – Provide construction documents or Request for Proposal complete and ready for award. This work requires:

- Participating in conferences where problems or needs are identified;
- Planning to determine the functional requirements of the project;
- Identifying areas of special concern such as permitting requirements, clearances, environmental impacts, and site utility adequacy/protection;
- Obtaining necessary approval actions;
- Coordinating technical and administrative requirements with local, state and other authorities.

Additional Experience

- Projects related to numerous Airfield Pavement Issues (arresting gear protective plate out of alignment, broken concrete repair, etc.)
- Airfield Vegetation Alterations (changed mangrove area into rabbit habitat)
- Alterations to Waste Water treatment Plant (construct injection Wells)
- Coordinate Pull Test at High Power Check Pad (non engineering assignment)

EDUCATION

Florida International University, Miami, FL; B.S. in Civil Engineering, 1986

Florida International University, Miami, FL; M.A. Childhood Education, 1977

Huntington College, Montgomery, AL; B.S. Math and Art Majors, 1968

EXPERIENCE

Mr. Corzo with over 32 years of experience in civil engineering has held a variety of positions from Senior Project Manager to Chief Engineer and Principal in Charge. His expertise in a majority of civil engineering specialties such as highway design, utilities, drainage design and construction management brings an in-depth experience base which allows him to look at the overall project to insure that a quality and cost effective product is being delivered. This background provides the necessary experience for running an extensive quality assurance plan. Some of the projects he has been involved in include:

- **Turnpike Crossings, Lauderhill, Florida –** QA/QC for the design drawings and specifications for four horizontal directional drillings (HDD) beneath the Florida Turnpike. HDPE (high density polyethylene) was used for a casing pipe and carrier pipe for both water mains and force mains. These large diameter pipe lines are extremely important to the City of Lauderhill. Florida Turnpike Enterprise was rebuilding the Turnpike and the City's old transmission mains needed to be abandoned and replaced. C3TS decided to design new force mains and water mains under the Turnpike with the new HDPE pipe installed via HDD (horizontal directional drill). Work was done using FDOT approved methods and materials. Facilities were installed in rapid succession and tied into DI pipe at its ends. Restrained joints were designed throughout both the water and the wastewater transmission mains.

- **Canal C-103 Crossing at SW 147th Avenue, Casing Installation via Horizontal Directional Drilling, Homestead, Florida –** Principal in Charge for this underground electrical system, consisting of four 6" PVC conduits inside a 26-inch diameter SDR9 HDPE casing. Included permitting of crossing by the South Florida Water Management District. Dual design allowing for alternative bids of 26-inch casing with 4-conduits, or bundled installation of the 4 6-inch conduits. The City selected the casing option, based on the small cost differential and the added benefits obtained.

- **Sub-Aqueous Electrical Crossing at SFWMD Canal C-103 & SW 147th Avenue, Homestead, Florida –** Principal in Charge of this project which consists of the furnishings of two 10' x 10' reinforced concrete manholes, which will be connected by approximately 555 linear feet of conduit installed by horizontal directional drilling and connecting the manhole to existing cables installed by others. The drilling path will cross under the SFWMD Canal C-103. The conduit to be placed shall be 26" diameter DR9 High Density Polyethylene installed inside. The 4-6" diameter conduits shall be installed with pull strings for future electrical wiring installation. As an alternate bid, the installed conduit shall be 4-8" diameter DR9 High Density Polyethylene pipe bundled together with no larger diameter pipe installed.

- **Capital Improvement Program (CIP) & Yearly Updates, Opa-locka, Florida –** Project Manager for the development of a Capital Improvement Program (and yearly amendments) for the rehabilitation and expansion of the City's infrastructure totaling over $18 million. The preparation of the CIP involved various engineering studies for roadway improvements, resurfacing projects, drainage projects, landscaping, street lighting, environmental contamination abatement, sanitary sewer collection and transmission, water distribution systems, parks and recreation improvements, and demolition of unsafe structures. Included in this program was the identification of funding sources, revenue projects, requirements for applicable grants, as well as other required planning information.

- **Replacement of ACP Water Mains along NW 135th Street and Opa-locka Blvd., Opa-locka, Florida –** This project replaced approximately 2 miles of old asbestos cement (ACP) force mains and water mains in the City of Opa-locka, in connection with the widening and rehabilitation of the NW 135th Street/ Opa-locka Boulevard corridor. Sizes of mains replaced varied from 8" to 16" diameter, and the project also included a bridge attachment for a 12" water main aerial crossing over the Opa-locka Canal.

- **Medley Booster Pump Station, Medley, FL** – Principal in Charge for this major Wastewater Booster Pump Station project in response to the operational changes by Miami-Dade WASD, in rerouting flows to the North Regional Wastewater Treatment Plant. The project's comprehensive scope of services included development of a funding program, master planning, design, bid and construction management services. This project was primarily funded by the State Revolving Loan program and was awarded an Engineering Excellence Honorable Mention award from the Florida Institute of Consulting Engineers (FICE).

- **Highland Village Neighborhood Improvements, North Miami Beach, Florida –** QA/QC for a $6 million dollar neighborhood improvement project in a low lying area of the City of North Miami Beach with extensive flooding and water quality problems resulting from failed onsite septic systems. The project included design of a pumped deep well disposal system, design of a wastewater collection and transmission system, including a new pump station and force main, design of roadway and site improvements, preparation of construction plans, permitting and preparation of grant applications seeking financial assistance to complete the project.

EDUCATION

Bachelor of Science in Civil Engineering, Florida International University, 1986

PROFESSIONAL REGISTRATION

Florida Professional Engineer License No. 39435

Puerto Rico Professional Engineer License 11732

EXPERIENCE

Mr. Glunt has over 36 years of experience in the management and administration of engineering divisions responsible for all aspects of design and construction of government and agency related facilities including marina and boating access facilities, recreation complexes, urban and Interstate roadways and bridges, utility corridors, municipal public works and administration facilities, nuclear power plants, landfills and aviation facilities throughout Florida and the United States. His specific experience includes engineering design and coordination of multiple projects, construction engineering and inspection, quality control / constructability review, rigid and flexible pavement design and analysis, hydrologic evaluations, geotechnical and environmental studies, DRI and PD&E involvement, environmental and drainage permitting, preparation of grant applications and coordination of numerous miscellaneous civil and structural contracts with State, County and Municipal entities. Mr. Glunt has been responsible for the start-up of numerous offices for his current firm, as well as for his previous employers; involving research and development, establishment of budgets and procurement of all facilities, equipment, vehicles and staff. Some specific experience in the marine, coastal and structural fields includes the following:

- **Waterway Park, Palm Beach County Parks & Recreation, Jupiter, Florida –** Project manager for development of new boat ramp facility in northern Palm Beach County. Duties included site plan development, design, permitting and construction administration for this 30 acre natural park along Indiantown Road and the ICWW. Permitting issues included development of a gopher tortoise reserve, mangrove and seagrass mitigation, compliance with county manatee protection program, stormwater runoff and an FDOT permit for the entrance off of Indiantown Road.. The project included 4 boat ramps, concrete floating dock finger piers and staging docks, concrete seawall protection, education kiosks, picnic pavilions, restroom facilities, parking for 50 boat trailers and on site roadway and parking systems.

- **Ft. Pierce Inlet Boat Ramp Facilities (Phases I & II) Fort Pierce, Florida -** Project Manager for this recreational marina facility featuring 4 boat ramps, concrete floating dock finger piers, 2 staging areas, concrete seawall and cap, rip-rap revetments, parking for 75 vehicles with trailers, passenger car parking, drainage and wetlands areas, water, sewer and electrical service, lighting, information kiosks and turn lane access from State Highway with entrance feature. Permitting issues included, gopher tortoise relocation, manatee protection plan modification, coast guard navigable waterway acceptance, mangrove areas, seagrasses and dredge and fill permitting through FDEP/ACOE/SFWMD. Subsequent to Hurricanes Frances and Jeanne, it remained the only active boat ramp in the County not damaged by the storms.

- **Crandon Park Marina Pier Replacements, Key Biscayne, Florida –** Project manager for project that included replacement of four of the existing concrete fixed piers with concrete floating docks. New utility services, including water, sanitary, cable and telephone, electrical and fire protection were provided for these piers and for future replacement of four other piers. The existing bulkheads were rehabilitated or replaced as needed due to corrosion. Maintenance dredging was performed through a dredge and fill permit for the main channel as well as the individual boating channels for each pier. Eight boat ramp finger piers were replaced with new precast concrete piers and piling.

- **Matheson Hammock Marina Pier Replacements, Miami Dade County, Florida** – Project manager for project which included replacement of all six of the existing concrete fixed piers with concrete floating docks. New utility services, including water, sanitary, cable and telephone, electrical and fire protection were provided for these piers and for future replacement of four other piers. The existing bulkheads were rehabilitated or replaced as needed due to corrosion. Maintenance dredging was performed through a dredge and fill permit for the main channel as well as the individual boating channels for each pier. Six boat ramp finger piers were replaced with new precast concrete piers and piling.

- **Jacobs Aquatic Center, Key Largo, Florida –** Principal in Charge on the site development for a new multi feature aquatic facility. The aquatic center consisted of a competition 25-meter by 25-yard stainless steel pool with a contiguous dive well, interactive water play area and a learn to swim pool. The project also incorporated a two story building that served as the restroom and maintenance facility for the pool as well as a community center and meeting room. The project involved permitting, paving, grading, drainage, utilities and geometry for site.

- **Key West Naval Air Station for U.S. Department of the Navy -** Forensic Pavement Engineer responsible for pavement evaluation of Runway 7-25. Study included destructive testing program along with historical research and comparison to proposed resurfacing plan. Study resulted in potential cost savings of over $500,000.

EDUCATION

Bachelor of Science in Civil Engineering, Florida International University, 1985

Bachelor of Science in Environmental Sciences, Juniata College, Huntington, Pennsylvania, 1976

PROFESSIONAL REGISTRATION

Florida Professional Engineer License No.: 40130

Threshold Inspector License No.: 0950

Dispute Review Board Member

ACI Level l Field Technician

OSHA 40-hour Hazardous Materials Technician (HAZMAT)

Troxler Nuclear Density Gauge

EXPERIENCE

Ms. Anesta has more than five years experience in the design and inspection of structural engineering projects. She has a strong understanding of engineering specifications and construction methods including advanced structural analysis, strength and mechanics of materials, concrete design, steel design, timber design, wind load analysis, and the shoring and re-shoring of concrete structures. Her projects include:

- **Green Turtle Hammock Park, Monroe County, Florida –** Structural Designer for this project to design the salvage and replacement of three wooden boat docks in the Village of Islamorada. Current materials were inspected and, where not deemed suitable for reuse, redesigned with a more economical design. The docks were designed using marine grade lumber with a box framing system on 4x4 posts, as requested by the Village. The design utilized value engineering in order to save the Village money on construction and material costs. A floating dock is to be added with a possible ADA compliant gangway. The project was designed to comply with the Florida Building Code 2007 w/ 2009 supplements, and the National Design Specification for Wood Construction 2005.
- **Crandon Park Marina Fixed Pier Reconstruction, Dade County Parks & Recreation –** Structural Designer for the reconstruction of nine fixed piers to include the removal of the existing superstructure and pier caps, utilizing the existing piling and replacing the piers with precast prestressed concrete deck elements.
- **Fisher Island Ferry Terminal Renovation, Fisher Island/Miami Beach, Florida –** Structural Designer for renovations to the existing five-lane Ferry Terminal which serves as the main entry point for residents. The terminal extends over a salt-water canal and is composed of precast slabs spanning between reinforced concrete bents supported by prestressed piles. Multiple slabs were suffering from extreme corrosion and needed to be replaced, while the bents and piles had significant cracking and spalling from corrosion which need to be patched. A full redesign of new precast slabs, and extensive plans depicting construction phasing and repair methods and sequencing were provided to the client, all repairs were able to take place without closing the terminal.
- **Ocean Reef Club Seawall Replacement, Ocean Reef, Florida –** Structural Designer for a new seawall system to replace a cracked and crumbling seawall. Permitting plans were provided that followed environmental and building code requirements, and construction inspections were performed. The seawall was designed without tie-backs, and a boat ramp was designed to provide access to the waterway. The project was completed in June of 2010, and C3TS has recently been commissioned to design another area of seawall in a similar manner.
- **Palm Beach County Structural Annual Services Palm Beach, Florida –** Structural Designer for this contract for which C3TS performed numerous plan reviews on structures proposed for construction in the County. These reviews included plans developed for the County Engineering and Roadway Departments and plans submitted by developers for work within the County R/W. These have included plan reviews for the 60th Street over the M Canal, Roebuck Road Bridge and Retaining Walls, Seminole Pratt Whitney Bridge, L2 Canal Storm Water Pump Station and the Ellison Wilson Road Box Culverts at Frenchman's Harbor. Also under this contract, C3TS is currently designing an at-grade bridge on 10th Avenue North for Palm Beach County Roadway production to allow 5 lanes of traffic and place pedestrians on their own non-traffic loaded bridges over the Keller Canal.
- **Belvedere Road and Pike Road Intersection Improvements Palm Beach County, Florida –** Project Engineer for these improvements that involved the design and permitting of a designated right turn lane and paved shoulder widening on Pike Road at the approach to Belvedere Road. Included in the design was the extension of a large diameter culvert in the LWDD L-3 canal beneath Pike Road, guardrail, curb and gutter, milling and resurfacing of the mainline on Pike Road, driveway connections to adjacent properties, right of way designation for easement acquisition, utility adjustments, pavement markings and accommodations for signalization. Permitting included drainage permits through LWDD and SFWMD. Legal description for all easements and right of way acquisition was obtained and provided for legal purposes.
- **Flamingo Upland Improvements, Miami Beach, Florida -** Structural Engineer for upland improvements to this Condo, located along Biscayne Bay, as well as Structural Design Review of a new seawall system. Operated as Project Manager by coordinating departments within C3TS, as well as other companies involved in the project, and compiling all plans for permitting while confirming that the plans reflect the Owner's wishes. Upland improvements included raising the elevation of the pool decks roughly 4'-0" by providing retaining walls, design of multiple wooden pavilions, wood decks, raised beds, and concrete planters and privacy walls. A thorough analysis of the site's soil report was provided and suggestions for construction methods and materials were provided as a service to the Client.

EDUCATION

Masters of Science in Structural Engineering, Florida Atlantic University, 2010

Bachelor of Science in Civil Engineering, Florida State University, 2007

PROFESSIONAL REGISTRATION

Florida Professional Engineer No.: 74733

LEED Accredited Professional

EXPERIENCE

Mr. Solaun, has over 37 years of diversified experience in the design and management of complex structural systems. Mr. Solaun is responsible for the design of bridge projects undertaken by the firm. Over his tenure he has lead the design effort on numerous bridge projects involving bridge structures over waterways, on limited access facilities as well as urban and rural arterials. This experience has included complex steel and concrete structural systems for new construction, widening and rehabilitation bridge projects. His project experience includes:

- **City Parking Garage Rehabilitation, Fort Lauderdale, Florida** – Project Manager responsible for the project management, structural design, threshold inspections and post design services of the parking garage rehabilitation. Project included Contract Plans and Specifications for several structural, electrical and mechanical repairs, such as: repair of cracks and spalls of post-tensioned slabs, post-tensioned beams, columns, shear walls and stairs; expansion joint repairs; drainage, installation of crash walls and steel railing bumper system in front of the existing parapets, replacement of four hydraulic elevators with four traction elevators, etc.

- **City Hall Parking Garage Rehabilitation, Fort Lauderdale, Florida** – Project Manager responsible for the project management and structural design of the parking garage rehabilitation. Project included Contract Plans and Specifications for several structural, electrical and mechanical repairs, such as: repair of cracks and spalls of concrete slabs, beams, columns, shear walls and stairs; expansion joint repairs; drainage inlets, etc.

- **Ft. Lauderdale Replacement of 10 Bridges, Ft. Lauderdale, Florida –** Structural Engineer for this project that include full engineering services for the replacement of ten (10) existing bridges. The City of Fort Lauderdale has received funding for the execution of these projects from FDOT District 4 through a Local Agency Program (LAP) agreement. There are numerous challenges in these project such as proximity of existing residences and boats, MPT phasing construction within a limited row, utility coordination and relocations, biological survey, permitting, completion of U.S.C.G (United States Coast Guard) Project Questionnaire Programmatic, Categorical Exclusion checklist, bridge hydraulics and scour determinations, etc.

- **SR 826 / SR 836 Interchange Reconstruction Design-Build-Finance (DBF), Miami-Dade County, FDOT District 6 and Miami-Dade Expressway Authority (MDX) –** Lead Structural Engineer / QC Reviewer for the structural design of several bridges along the SR 836, retaining walls and ITS structures . The total estimated cost for the interchange reconstruction is $560 million, and consists of a four-level interchange in the heart of Miami-Dade County. The project includes the reconstruction of approximately 2 miles of SR 826 from SW 8th Street to NW 25th Street and approximately 3 miles of SR 836 from NW 87th Avenue to NW 57th Avenue to provide 5 lanes in each direction along the mainline plus the introduction of EBCD and WBCD roads along SR 836. The job includes the construction of 47 new bridges that include 7 steel bridges, 36 Florida I-beam bridges and 4 post-tensioned-segmental bridges. Other improvements include retaining walls, lighting, sound walls, canal relocation, utilities JPA plans, signalization, new signing and pavement markings, new ITS, and special aesthetic features. Extensive stakeholder coordination is required with FDOT, MDX, MDC Water & Sewer, utility owners, the Miami International Airport, CSX Transportation, DERM, and SFWMD, etc.

- **95 Express Lanes (from South of SR 112 to North of SR 826), Miami-Dade County, Florida, FDOT District 6 –** Senior Structural Engineer for this project which includes re-striping I-95 and modifying shoulders to provide two 11-foot Express Lanes and four 11-foot regular travel lanes in each direction; installing electronic Open Road Tolling (ORT) equipment similar to that already in use along SR 836 and the Florida Turnpike; implementing Intelligent Transportation System (ITS)-related equipment including electronic message signs and ramp signals; widening several bridges along I-95 in the vicinity of SR 112 and modifying existing on and off ramps between I 95 and SR 112 to accommodate the new Express Lanes; modifying storm water drainage; and converting the NW 10th Avenue on ramp to northbound I-95 to a dedicated Express Lane.

- **SR 5 (US-1) Design-Build-Finance from South of the C-111 Canal to SW 344th Street (Florida City) Miami-Dade County, FDOT District 6 –** Senior Structural Engineer for this project which entails approximately 10.5 miles of US-1 that is part of the 18-Mile Stretch of US-1 between Florida City and Key Largo. This project is being constructed under a Public Private Partnership utilizing the Design Build Finance (DBF) method of project delivery by the DBF Team of C3TS-Community Asphalt-OHL and was the first Unsolicited Proposal accepted by USDOT in the State of Florida. The project includes a new 14-ft wide median with concrete barrier wall designed to eliminate head-on crashes. In addition, there are several 1-mile sections where passing lanes are being provided.

EDUCATION

Bachelor of Science in Civil Engineering, University of Havana, 1973

PROFESSIONAL REGISTRATION

Florida Professional Engineer License No. 43418

Kentucky Professional Engineer License No. 19829

Michigan Professional Engineer License No. 44638

Special Inspector / Threshold Building License No. 0967

EXPERIENCE

Dr. Marcus has over 31 years of experience in environmental assessment and regulatory compliance. He has an extensive background in transportation related impact analysis as required by NEPA and FHWA regulations. His areas of expertise include freshwater and marine ecology, wetlands restoration and enhancement programs, and the preparation of environmental assessments and impact statements; particularly in subtropical and tropical habitats. Dr. Marcus has conducted numerous biological surveys, air and noise investigations, endangered species impact assessments, wetlands delineations, ecological risk assessments, and has prepared a wide variety of permit applications at the Federal, state and local levels. He has conducted over 200 Phase I and Phase II environmental audits and has supervised groundwater and sediment contamination assessments throughout the United States. His compliance experience includes RCRA, CERCLA, CWA, TSCA, FIFRA, OSHA, NEPA, and DOT. He is published on the impacts of oil and dispersants on mangroves, corals, and seagrasses.

- **Card Sound Road Intersection Environmental Assessment, FDOT District 6, Monroe County, Florida** – Dr. Marcus was responsible for issues relating to wetlands, essential fish habitat, and threatened/endangered species. Even though the project was closed, the WER, ESBA, and EFH reports were completed. This was a unique project that required complex coordination with the Crocodile Lake National Wildlife Refuge, South Florida Water Management District (wetlands), and the U.S. Fish & Wildlife Service (Key Largo cotton mouse and woodrat). Dr. Marcus represented the Department at many public and agency presentations. He prepared a White Paper that was widely distributed.
- **Seagrass Restoration in Lake Surprise by Removal of the Causeway –** Dr. Marcus permitted and developed the mitigation for the construction of the new Jewfish Creek Bridge over Lake Surprise just north of Key Largo that included the removal of the causeway which provided improved water quality and 5.8 acres of seagrass restoration. The project included design, permitting, construction, monitoring and maintenance.
- **Seagrass Restoration in Boca Chica Lagoon, Naval Air Station, Monroe County –** Dr. Marcus designed and permitted the Boca Chica seagrass restoration site located within the Boca Chica Naval Air Station (NAS) near Key West in Monroe County, Florida. The mitigation project consists of restoration of tidal flow in the Boca Chica lagoon through two remedial actions: the construction of a flushing channel through an existing berm to the Atlantic Ocean, and maintenance of an existing cross lagoon flushing channel. Compensatory mitigation was needed for approximately 7.3 acres of seagrass impacted by the US-1 South Two-Lane Safety project. This site has the potential to create approximately 100 acres of seagrass credits that not only fulfill US-1 South/18-Mile Stretch seagrass mitigation requirements, but also provide additional seagrass credits for future FDOT projects. Dr. Jeffry Marcus successfully permitted the use of the Boca Chica site to mitigate for seagrass impacts resulting from other FDOT projects.
- **US-1 Two-Lane Safety Project, FDOT District 6, Miami-Dade and Monroe Counties, Florida** – Dr. Marcus developed the Boca Chica Seagrass Mitigation Plan, provided expert witness testimony in the State & Federal trials, oversaw monitoring and maintenance of the US-1 upfront mitigation sites including C-109, the Harrison Tract, C-111, and the roadside spoil restoration. He directed the video *Return to Nature*, oversaw many aspects of construction compliance including removal of the Lake Surprise Causeway and sediment re-use at Keystone Pit and Pat Bougainville. Dr. Marcus was responsible for numerous professional presentations, and served as a major representative for all aspects of permitting.
- **Houseboat Row Seagrass Restoration Project, FDOT District 6, Monroe County** – C3TS is responsible for selecting a contractor to restore 2.61 acres of seagrass habitat at the historic Houseboat Row site located just east of South Roosevelt Boulevard (SR-A1A). C3TS's multi-disciplinary team of technical professionals is assisting with the design, MOT development, and environmental and construction oversight. The Houseboat Row site is a historic seagrass flat that was dredged for the mooring of houseboats. C3TS will restore the dredged are by backfilling the area to re-establish the historic elevation for successful seagrass colonization. The proposed project has been authorized and permitted by the U.S. Army Corps of Engineers (USACE) and the South Florida Water Management District (SFWMD) as mitigation for impacts associated with the reconstruction and roadway improvements of North Roosevelt Boulevard (SR 5/US 1).
- **Districtwide Mitigation & Maintenance Services Contract, FDOT Districts 6 and 4 -** Principal Environmental Specialist and Contract Manager operating as an extension of FDOT's Staff for the design and oversight of the construction of numerous mitigation projects including the Boca Chica Channel (seagrass), Summerland Key Restoration (mangroves), Islamorada Restoration (mangroves), and the removal of the Lake Surprise Causeway (seagrass) and sediment re-use at Port Bougainville upland hammock restoration.

EDUCATION

Bachelor Sciences in Biological Sciences, University of Colorado, 1975

Ph.D., Aquatic Biology, University of Lancaster, England, 1978

PROFESSIONAL REGISTRATION & CERTIFICATIONS

Efficient Transportation Decision Making (ETDM) Process

SCUBA Certification – NAUI

President, South Florida Association of Environmental Professionals (SFAEP)

Board of Directors, Florida Association of Environmental Professionals (FAEP)

Adjunct Professor, University of Miami, School of Engineering

Lifetime Achievement Award Excellence in Ecology, United Cultural Convention, 2011

Contemporary Who's Who American Biographical Institute

America's Registry of Outstanding Professionals

EXPERIENCE

Mr. Compel has over 10 years of experience in the design and construction of civil engineering and site development projects. He has served as project construction administrator and project engineer for various drainage, water, sewer, underground electrical, and industrial projects. His experience in construction service has allowed him to effectively deliver projects satisfying all owner requirements. Responsibilities during construction include permitting, review of scheduling, and overall cost analysis. He is proficient at various software packages including Microsoft Project, MBR (SFWMD Multi-Basin Routing Software), Flowmaster, AutoCAD, AutoTurn and EaglePoint. Some of his project experience includes:

- **Village of Key Biscayne Zones 1 & 4 Water Main and Sanitary Sewer Replacement, Key Biscayne, Florida** – Construction Manager responsible for the construction administration for this project that includes the construction of sanitary sewers, manholes, existing pump station upgrades and modifications, lateral connections, fire hydrants, water main replacement including valves and appurtenances, and roadway/right-of-way restoration.
- **Village of Key Biscayne Zones 2 & 3 Reclaimed Water & Line Replacement Sanitary Sewer, Key Biscayne, Florida** – Director of Construction Services responsible for the construction administration for this project that includes the construction of sanitary sewers, manholes, existing pump station upgrades and modifications, lateral connections, fire hydrants, water main replacement including valves and appurtenances, and roadway/right-of-way restoration. In addition to observing the on-going work, digital pictures were taken at almost every visit to record the project progress.
- **Village of Key Biscayne Redevelopment of Gravity Drainage Wells, Key Biscayne, Florida** – This project involved the cleaning, rehabilitation, and redevelopment of 30 existing gravity drainage wells located throughout the Village. Responsibilities included inspections, management, and conducting testing at each well to ensure expected discharge capacity was achieved. The work was funded by a grant from the South Florida Water Management District.
- **Pinecrest Watermain Master Plan and System Design, Pinecrest, Florida –** Project Manager and Construction Administrator for the installation of over 12 miles of watermain infrastructure throughout the Village. This two-phase project provided potable water to over 550 properties previously connected to individual private wells. This project also included the implementation of a system to allow each homeowner to select the best location for their new water meter.
- **Golden Beach Capital Improvements Program, Golden Beach, Florida –** Construction Administrator for this comprehensive Capital Improvements Program Master Plan that focuses on several major improvement areas: town-wide drainage improvements; utilities underground relocation (electrical, telephone, cable); and town-wide streetscape & traffic calming. The Master Plan carefully considered each of these with respect to feasibility, cost/benefit, and design, as well as an analysis of funding options and scenarios, and schedule for phasing and implementation.
- **NW 82nd Avenue Improvements, Doral, Florida –** Project Manager and Construction Administrator for this project which included the study, design, and construction administration of various improvements on NW 82 Avenue from NW 12 Street to NW 25 Street. It consisted of milling and resurfacing, sidewalk and curb and gutter replacement and reconstruction, handicap ramp replacement, and drainage work including the installation of exfiltration trenches, concrete manholes and solid pipes. The project also involved the repair of damaged asphalt around existing manholes, valves, and above existing drainage trenches and crossings. The final design also included pavement markings and signage.
- **South Miami Downtown Improvements, South Miami, Florida –** Construction Administrator and Project Designer for these improvements within the South Miami Downtown area. The improvements consisted of the design, permitting, and construction of streetscape improvements including watermain extensions, new drainage systems, new wide pedestrian friendly sidewalks, irrigation, lighting, and landscaping. These updated systems were vital to allow the downtown area to develop and expand. Responsibilities during construction included coordination with local merchants to minimize impact of construction on their business.

EDUCATION

Bachelor of Science in Civil Engineering, University of Miami, 2002

PROFESSIONAL REGISTRATION

Florida Professional Engineering License No. 66618

LEED Accredited Professional

EXPERIENCE

Mr. Caicedo has over 30 years of experience in all phases of construction and inspections. During this time he has built multi-million dollar projects from initial to final phase, commercial developments to custom single family housing, has carried out daily on-site inspections and supervision, maintaining excellent communication skills and safety standards. He has acquired building permits and supervised project construction as well as review of plans and specifications. Some of his projects include:

- **Sunset Drive Improvements (West of US 1), South Miami, Florida –** Senior Inspector for this master planning project involving the development of conceptual streetscape and infrastructure improvements along Sunset Drive from the western city limits to US 1. These include delineating intersections with concrete pavers and crosswalks, redefining roadways sections, and providing new lighting and landscape design to increase public safety and appeal. In addition, a new architectural site plan for City Hall was designed incorporating surrounding public spaces and facilities to create an enhanced civic and community space. The master plan was developed substantially in accordance with the City's Hometown Plan Area 2, and evaluated proposed improvements with respect to their feasibility, cost/benefit, design, and construction.
- **Palmetto Bay Villagewide Drainage Improvements, Palmetto Bay, Florida –** Senior Inspector for this project that involved field surveying, design, permitting, bidding, and construction administration of drainage improvements at 10 locations throughout the Village. These 10 areas were identified by the Village as having flooding problems. The improvements included new drainage structures, exfiltration trenches, outfalls, and asphalt overlays. The project was completed on schedule and under budget.
- **Belle Meade Drainage Improvements, Miami, Florida –** Senior Inspector of the civil portion of this $8 million project which consisted of the design and permitting of a drainage and streetscape improvement project encompassing several miles of road in a developed flood-prone neighborhood providing quality treatment through the use of exfiltration trenches and storm water treatment units and discharging through a large stormwater pump station to the Little River Canal. Permitting included pre/post computer modeling and stage calculation for Miami-Dade's Class II Surface Water Management Permit.
- **Highland Village Neighborhood Improvements, North Miami, Florida –** Senior Inspector responsible for the construction inspection services consist of on-site personnel to provide the construction engineering administration services including but not limited to overseeing, coordinating and inspecting the work of surveyors and construction contractors. Responsibilities include monitoring, record keeping, approving and recommending requisitions for compensation, review of change orders, estimations, claims, scheduling, shop drawings and remedial designs. C3TS also provides responses to Requests for Information (RFI) and assuring compliance with all local, state and federal regulations, on behalf of the City of North Miami Beach.
- **Homestead Air Reserve Park – Phase I, City of Homestead, Florida –** Senior Inspector responsible for the construction inspection services consist of on-site personnel to provide the construction engineering administration services including but not limited to overseeing, coordinating and inspecting the work of surveyors and construction contractors. Responsibilities include monitoring, record keeping, approving and recommending requisitions for compensation, review of change orders, estimations, claims, scheduling, shop drawings and remedial designs.
- **Pinecrest Watermain Master Plan and System Design, Pinecrest, Florida –** Senior Inspector for the design of over 27 miles of watermain to complete the potable water system of the entire Village. The Master Plan was prepared that included a computerized model of the entire system and public workshops and meetings were held to inform and educate the residents of the work and cost involved in the project. C3TS also prepared special taxing districts and an EQCB Variance to detail the finances of this $23 million project.
- **NW 82nd Avenue Improvements, Doral, Florida -** Senior Inspector for this project which included the study, design, and construction administration of various improvements on NW 82nd Avenue from NW 12th Street to NW 25th Street. It consisted of milling and resurfacing, sidewalk and curb and gutter replacement and reconstruction, handicap ramp replacement, and drainage work including the installation of exfiltration trenches, concrete manholes and solid pipes. The project also involved the repair of damaged asphalt around existing manholes, valves, and above existing drainage trenches and crossings. The final design also included pavement markings and signage.
- **Capital Improvements Program Master Plan, Golden Beach, Florida -** Senior Inspector for this comprehensive Capital Improvements Program Master Plan that focuses on several major improvement areas: town-wide drainage improvements; utilities underground relocation (electrical, telephone, cable); and town-wide streetscape & traffic calming. The Master Plan carefully considered each of these with respect to feasibility, cost/benefit, and design, as well as an analysis of funding options and scenarios, and schedule for phasing and implementation.

EDUCATION

Master of Civil Engineering Norwich University, Vermont, 2009

Bachelor of Science in Engineering Florida International University, 1990

REGISTRATIONS

Engineer Intern 1100009198

EXPERIENCE

Mr. Herdocia has over 23 years of experience and has been Project Manager and Senior Design Engineer on various roadway and drainage projects for municipalities in Miami-Dade County. He has extensive experience in developing residential, commercial and highway roadway and drainage plans. This experience includes traffic calming, resurfacing and reconstruction plans, drainage design studies and reports, maintenance of traffic, signalization, lighting and signing and marking plans. Some of his projects include:

- **Design & Construction Services for John F. Kennedy Causeway Redevelopment North Bay Village, Florida –** Senior Engineer for this project that involves the design and construction services for the redevelopment of the John F. Kennedy Causeway. The project will be implemented in several phases. Phase I will be the landscape design and construction of street beautification improvements to the western end of the Causeway. While this phase is being implemented, a conceptual master plan shall be prepared to address the complete beautification and redevelopment program for Kennedy Causeway which includes the roadway, adjacent business district, and the waterfront
- **Traffic Calming Devices and Right of Way Improvements (Phases I and II), Doral, Florida –** Project Manager for the design and construction of traffic calming devices and right of way improvements within the City limits. C3TS is the prime design firm for this design/build project that includes the design and permitting of one traffic circle at the intersection of NW 109th Avenue and NW 86th Street and two splitter islands on SW 78th Street. The project also includes new curb and gutters, pavement milling and resurfacing, pavered crosswalks (at traffic circle only), and landscaped medians.
- **Town of Golden Beach Capital Improvements Program, Golden Beach, Florida –** Senior Civil Engineer for this comprehensive CIP Master Plan that focuses on several major improvement areas: town-wide drainage improvements; utilities underground relocation (electrical, telephone, cable); town-wide streetscape & traffic calming; and renovation to the Town's existing Town Hall building. The Master Plan carefully considered the each of these with respect to feasibility, cost/benefit, and design, as well as an analysis of funding options and scenarios, and schedule for phasing and implementation.
- **West Kendall District Park (SW 157th Avenue and SW 120th Street), Miami-Dade County, Florida** – Project Manager and Senior Project Engineer (Engineer of Record) involved with proposed new roadway design and street improvements for Miami-Dade County. Design elements included over 4,600 feet of exfiltration trench, 1,000 feet of solid pipe, 31 drainage structures, over 5,000 feet of 16" water main with sub-aqueous crossing, roadway resurfacing, roadway lighting and report, new signalization with mast arm configuration of existing intersection, over 1 mile of new roadway with sub base, base and asphalt, sidewalk, guardrail, landscaped median, retaining wall, curb and gutter, pavement markings and signs and coordination with structural department for design of proposed Bridge over a canal. Services include the production of Grading and Drainage, Typical Sections, detail plans, preliminary field investigations, utility coordination, computation book, drainage report and detailed cost estimates. Other tasks included permitting through DERM, Miami-Dade Water and Sewer, Miami-Dade Fire Rescue, Florida Department of Health and acquisition of Right of Way permit through SFWMD.
- **NE 19th Avenue Roadway Improvements (NE 171st Street to NE 183rd Street), North Miami Beach, Florida –** Project Manager and Senior Roadway Engineer (Engineer of Record) for the reconstruction of all non-signalized intersections to provide roadway widening and resurfacing project including pavement widening, overlay, curb and gutter, curbed islands, landscaping, drainage, on-street parking, lighting, pavement marking and signage, drainage fumes at the corner radii, and median nosing. The project also inluded a new roundabout at each of the non-signalize median openings.
- **Broward County Intersection NW 31 Avenue & NW 19 Street, Broward County, Florida –** Project Manager and Senior Roadway Engineer (Engineer of Record) on realignment to include a dedicated westbound right-turn lane and an eastbound right-turn lane along N.W. 19th Street. Plans consisted of geometry, drainage, sidewalk, curbs and gutter and pavement marking plans.
- **South Miami Downtown Improvements Phase IV, South Miami, Florida -** Senior Civil Engineer involved with street and drainage improvements. Design elements included over 200 feet of exfiltration trench, 200 feet of solid pipe, ten drainage structures, milling and resurfacing of roadway, side walk, curb and gutter stripping & signing landscaping and irrigation and maintenance of traffic (MOT) plans. Also responsible for the production of demolition, geometry paving grading and drainage, typical sections and detail, landscaping and irrigation plans. Duties also included drainage report and detailed cost estimates.
- **NE 172nd Street Improvements, North Miami Beach, Florida –** Project Manager and Senior Roadway Engineer (Engineer of Record) on 0.8 mile roadway widening and resurfacing project including pavement widening, overlay, curb and gutter, curbed islands, landscaping, drainage, on-street parking, lighting, pavement marking and signage.

EDUCATION

Bachelor of Science in Civil Engineering, Florida International University, 1988

PROFESSIONAL REGISTRATION

Florida Professional Engineer License No.: 47660

LEED Accredited Professional

CORZO CASTELLA CARBALLO THOMPSON SALMAN

DIANA SUDASASSI-BILBAO, P.E.
Senior Streetscape / Traffic Calming Engineer

EXPERIENCE

Ms. Sudasassi-Bilbao, with over 17 years of experience, has been Project Engineer, Project Manager, and Engineer of Record on many traffic calming and roadway projects, and is responsible for the design and production of several municipal roadway improvement projects undertaken by the firm. She is experienced in developing residential, commercial and highway lighting and roadway plans. This experience includes implementation of traffic calming devices such as roundabouts and diverter islands, resurfacing and reconstruction plans, drainage design studies and reports, maintenance of traffic, signalization, lighting and signing and marking plans. She has experience with many of the local regulatory agencies. Her projects include:

- **John F. Kennedy Causeway Redevelopment, North Bay Village, Florida –** Senior Engineer for this project that involves the design and construction for the redevelopment of John F. Kennedy Causeway. The project will be implemented in several phases. Phase I covers landscape design and construction of street beautification improvements to the western end of the Causeway. While this phase is being implemented, a conceptual master plan shall be prepared to address the complete beautification and redevelopment program for the Causeway which includes roadway, adjacent business district, and waterfront.
- **Miracle Mile Redevelopment Streetscape, Coral Gables, Florida** – Senior Civil Engineer for the proposed redevelopment of Miracle Mile which will help transform the Coral Gables Downtown area into a vibrant epicenter of the local community. Some of the enhancements include wider sidewalks with more open public space to attract foot traffic, improved urban lighting, tree grates, benches, kiosks, signage, throughways to garages, and upgraded drainage facilities.
- **Town of Golden Beach Capital Improvements, Golden Beach, Florida –** Senior Engineer for this comprehensive Capital Improvements Program Master Plan which focuses on several major improvement areas: town-wide drainage improvements; utilities underground relocation (electrical, telephone, cable); town-wide streetscape & traffic calming; and renovation to the Town's existing Town Hall building. The Master Plan carefully considered the each of these with respect to feasibility, cost/benefit, and design, as well as an analysis of funding options and scenarios, and schedule for phasing and implementation.
- **Sunset Drive Improvements, South Miami, Florida -** Project Engineer for the development of roadway plans including drainage, utility coordination, pavement markings and lighting. Coordination of permitting requirements on behalf of the client. Responsible for transmittals, shop drawing reviews, preliminary cost estimates and construction plan clarifications.
- **South Miami Downtown Improvement Project, Phase I, South Miami, Florida –** Senior Civil Engineer for the design, permitting, and construction of drainage and watermain improvements within the downtown South Miami area on SW 73rd Street, SW 58th Avenue, and SW 58th Court. Improvements included a 12" watermain extension and new drainage systems. Responsibilities during construction included coordination with local merchants to minimize impact of construction on their business.
- **Yumuri Street, Monza Avenue & Venera Avenue Improvements, Coral Gables, Florida -** Project Engineer for the development of roadway plans including drainage, utility coordination, pavement markings, and permitting coordination.
- **Old Cutler Improvements (SW 97-87Ave), Cutler Bay, Florida –** Senior Project Engineer for the design improvements for the portion of Old Cutler Road between SW 97th Avenue and SW 87th Avenue. The project consists of roadway improvements, traffic circles, pavement resurfacing, sidewalks, drainage facilities, medians, landscaping, and lighting. Old Cutler Road is designated a historic roadway which required all improvements to respect the existing roadway footprint, thus limiting the modification and/or additional widening of the road. This Miami-Dade County roadway is considered an arterial collector roadway. The proposed configuration for Old Cutler Road will include roundabouts at each end of the corridor for traffic calming and beautification. The 1.24 mile corridor between these two roundabouts will be a two lane roadway with turn lanes, landscape medians and scramble lanes. Permitting including Miami-Dade County Public Works DERM and Town of Cutler Bay.
- **San Amaro Drive Traffic Calming Improvements, Coral Gables, Florida –** Project Manager for the construction of San Amaro Drive and Campo Sano Avenue along the west and north boundaries of the University of Miami was a collaborative effort between the City of Coral Gables and the University. The project's primary goal was to slow down traffic along this 0.7 mile peripheral collector roadway, and provide pedestrian safety improvements. A series of traffic calming measures were employed, including lane narrowing, diverters, medians, landscaping, and a roundabout. A continuous sidewalk along the entire project length was constructed tying into the surrounding sidewalks in the neighborhood by way of decorative concrete crosswalks and corner sidewalk extensions.

EDUCATION

Bachelor of Science in Civil Engineering, Florida International University, 1994

PROFESSIONAL REGISTRATION

Florida Professional Engineer License No. 56926

CORZO CASTELLA CARBALLO THOMPSON SALMAN

WILLIAM K. FRANCIS, P.E.
Senior Civil Geotechnical Specialist

EXPERIENCE

Mr. Francis has over 24 years experience in the construction, inspection, material testing, and design of large-scale roadway and bridge projects. He has served as Project Manager, Senior Project Engineer, and Engineer of Record on numerous projects throughout Florida. He has a strong understanding of FDOT specifications, construction practices and methodologies as well as geotechnical and environmental engineering principles, having provided design and construction inspection services in both the public and private sectors, as well as expert witness forensic studies and testimony. His experience includes: all varieties of bridge foundation design and construction, concrete and asphalt pavements, drainage assessment and NPDES inspection, retaining and MSE wall construction, shoreline reclamation and stabilization, wetlands mitigation, landfill construction, and rip-rap installation. Some of Mr. Francis' specific experience includes:

- **Wiles Road Extension for Broward County, Florida –** Senior Project Engineer responsible for overseeing start-up and construction of new four-lane roadway connecting Lyons Road to Florida's Turnpike. Project involved new asphalt roadway construction, curb and gutter, roadway lighting, signalization, signage, landscaping and irrigation, drainage and environmental mitigation areas. Responsible for all inspection coordination and documentation, monthly estimates, contract administration, schedule review and claims analysis.

- **CEI Construction Services for I-75 / Pines Boulevard Interchange Improvement Project (LAP Project), Pembroke Pines and FDOT District 4 –** Senior Project Engineer responsible for the overall supervision of all phases of a major interstate interchange re-construction project that involves ramp re-configuration, bridge widening, roadway widening, resurfacing, drainage, signalization, landscaping, irrigation, and utility relocation.

- **CEI Construction Services for SR-845 / Powerline Road from Broward County Line to SR 808 / Glades Road in Boca Raton, FDOT District 4 –** Senior Project Engineer responsible for the overall supervision of all phases of a major roadway widening / 3R project that involves bridge widening, shoulder widening, milling and resurfacing, signalization, roadway lighting, landscaping, and utility relocation for approximately 3.3 miles of major urban roadway.

- **CEI Construction Services SR-845 (Powerline Road – Broward County) for FDOT District 4** – Senior Project Engineer responsible for the supervision of all construction activities on a major roadway reconstruction project that involved widening from 4 to 6 lanes, composite concrete pavement, resurfacing, signalization, roadway lighting, landscaping, and utility relocation for approximately 2.2 miles of major urban roadway.

- **CEI Construction Services for Glade Grouping / SR-808/ Glades Rd. from W. of I-95 to NW 7th Ave., SR-5 US-1 from North of Glades Rd to S. of Yamato Rd./Boca Raton, Florida, SR 804 / Boynton Beach Boulevard from E. of Hagen Ranch to W. of Jog Rd., FDOT District 4 –** Senior Project Engineer responsible for the overall supervision of the above mentioned concurrent projects. The scope of work included: milling & resurfacing, bridge widening to allow the addition of sidewalks, widening to provide bike lanes, pedestrian feature upgrades necessary for ADA compliance, traffic railing upgrades, signage, signing and pavement markings, signalized intersection improvements including video detection and pedestrian signal improvements, new mast arm installation with video detection and landscaping enhancements.

- **CEI Construction Services SR-808 (Glades Road – Boca Raton), FDOT District 4 –** Senior Project Engineer responsible for the supervision of all phases of a major roadway widening / 3R project that involves bridge widening, shoulder widening, resurfacing, signalization, landscaping, irrigation, and utility relocation for approximately 0.7 miles of major urban roadway.

- **CEI Construction Services for SR-700 / US-98 / Conners from Old 700 Alignment to Old Conners Highway; SR-729 / St. Market Road from SR15, FDOT District 4 –** Senior Project Engineer responsible for the overall supervision of all phases of an approximately 15 mile milling and resurfacing project including: shoulder widening, drainage improvements, curb and gutter, slope reconstruction and revetment, ADA improvements , sidewalks, guardrail, and mill and resurfacing, In addition to the general roadway improvements, the project incorporated a paving process called "Hot in Place" placement. This will be the first time this technology has been used in South Florida and is the first attempt to go "GREEN" building roads.

EDUCATION

Bachelor of Science in Civil Engineering, Arizona State University, 1988

PROFESSIONAL REGISTRATION

Florida Professional Engineer License No. 47562

CERTIFICATION / TRAINING

TIN: F65293165

Florida Engineering Leadership Institute

FDOT Project Engineer's School

FDOT CEI Project Management Course

FDOT Final Estimate Training

FDOT Site Manager Training

FDOT LIMS Training

FDOT Critical Structures Construction Issues

CTQP QC Manager

Advanced Work Zone Traffic Control Certification

Certified Structural Masonry Inspector

OSHA 40-hour Hazardous Materials Certification

Certified Radiation Safety Officer

Certified NPDES Stormwater Erosion and Sedimentation Control Inspector

EXPERIENCE

Mr. Rodriguez has over 39 years of professional responsibility in infrastructure planning, design, construction, and operation for an array of capital projects in civil, sanitary, and environmental engineering fields; for municipal and other public agencies and for private industry. Mr. Rodriguez has served as consultant and City Engineer to a number of municipalities as well as having experience as Director of the Public Utilities Department serving a population of 160,000 with wastewater and potable water utilities, including a 16 MGD water treatment plant. He was the project manager and engineer of record for the closure of the NW 58th Street landfill in Miami-Dade County, a 360-acre Superfund site, which included final cap and stormwater management and creation of freshwater wetlands. Mr. Rodriguez's expertise also covers the area of coastal and saltwater wetlands. He was project manager on the restoration of the mangrove wetlands in the Oleta River Basin, which covered 7 acres requiring regrading and replanting, which included tidal levels monitoring for establishing the MHW and MLW marks in an unchartered wetland. He has designed other salt water and fresh water wetlands, including sub-aquatic grasses and littoral zones to form part of mitigation areas, and was EOR for a fishing pier and artificial reef in Biscayne Bay. Some of his project experience includes:

- **Village of Pinecrest Watermain Master Plan and System Design, Pinecrest, FL –** Senior Project Engineer for this project which included the design of over 27 miles of water mains to complete the potable water system of the entire Village. The Master Plan prepared included a computerized hydraulic model of the entire system, participated in public workshops and meetings held to inform and educate the residents of the extensive work and cost involved in the project. C3TS also prepared special taxing districts to better explain the finances of the project. Alternate funding from several sources funded the initial 2 phases of construction, including the larger diameter "backbone" system to be constructed.

- **Highlands Village Neighborhood Improvements, North Miami Beach, FL –** Senior Civil Engineer for a $6 million dollar neighborhood improvement project in a low lying area of the City of North Miami Beach with extensive flooding and water quality problems resulting from failed onsite septic systems. The project included design of a pumped deep well disposal system, design of a wastewater collection and transmission system, including a new pump station and force main, design of roadway and site improvements, preparation of construction plans, permitting and preparation of grant applications seeking financial assistance to complete the project.

- **Homestead Energy Services, 26-inch diameter Sub-Aqueous Crossing, Homestead, FL –** Project Manager and Engineer of Record for 650 feet long HDPE DR9 pipe for use to pull four-6-inch electrical conduits (also HDPE) under Canal C-103 at SW 147th Avenue in Homestead, as part of the City's expansion of the electrification of the east part of the city, and providing annular space for smaller communications and telephone conduits to be installed separately by others.

- **Medley Sewer System Rehabilitation, Phase 3, Medley, FL** – Project Manager and Engineer of Record for the rehabilitation and repairs of over 8 miles of gravity sanitary sewer lines in Medley using internal cured-in-place lining.

- **Midway Stormwater Pump Station, Miami-Dade County, FL –** Project Engineer for the design and permitting of a stormwater pump station and force main under the SR 826 (Palmetto Expressway) discharging to the North Line Canal through an energy dissipating structure and outfall. The pump station will transmit the runoff collected from the existing collection system to the North Line Canal through directionally bored twin 24-inch diameter carrier pipes in two 36-inch HDPE casing pipes that cross under FDOT's SR-826 Expressway. The system was modeled resulting in collection system improvements to provide adequate flood protection to the area.

- **MCC Pump Station and Force Main, Medley, FL –** Project Manager for this project which consisted of renovations and upgrades to a wastewater lift station that was "piggy-backing" into another pump station, which in turn exhibited more than 10 hour/day in operation. The project consisted of constructing a ½ mile long force main and upgrading the pump station to permit manifolding into existing transmission main, thereby allowing both stations to operate well within the 10 hour day maximum. The design included a casing crossing of a railroad spur and sequencing of the work to allow full-time by-passing of the flows and providing uninterrupted flows. The design coincided with that of a booster pump station, which was designed to accommodate the increase in flows.

EDUCATION

Bachelor of Science in Civil Engineering, University of Florida, 1973

PROFESSIONAL REGISTRATION

Florida Professional Engineer License No. 20021

PROFESSIONAL & CIVIC AFFILIATIONS

National Society of Professional Engineers (NSPE)

Florida Engineering Society (FES)

AWARDS

Recipient of the Mentor of the Year Award, FES Miami Chapter 2009

Recipient of the Outstanding Service to the Engineering Profession Award, FES, Miami Chapter, 2002

Recipient of the 2nd Place Award for Chapter Excellence as President of the Miami Chapter of FES, 2001

EXPERIENCE

Mr. Dvorak has over 41 years of civil, mechanical and environmental engineering, including the design, permitting and construction of water supply wells and water treatment plants. He has designed numerous raw water, disposal, irrigation, and stormwater wells. He has prepared, completed and submitted numerous of Consumptive Use Permits (CUP) for municipalities. He has provided consulting engineering and project management services on many well rehabilitation and restoration projects. He has extensive knowledge of the SFWMD permitting requirements, and in-depth knowledge of the mechanical and hydraulic design of well pumps, liquid level control systems, engine control systems, fuel delivery systems, and communication SCADA systems. Some experience includes:

- **Redevelopment of Gravity Drainage Wells, Key Biscayne, Florida –** Senior Engineer for this project that involved the cleaning, rehabilitation, and redevelopment of 30 existing gravity drainage wells located throughout the Village. Responsibilities included inspections, management, and conducting testing at each well to ensure expected discharge capacity was achieved. The work was funded by a grant from the South Florida Water Management District.
- **Belle Meade Drainage Improvements, Miami, Florida-** Project Engineer responsible for preparing the engineering reports, preliminary design, final design, hydraulic design, and construction specifications. Project required three 150 hp electronic submersible axial-flow pumps and one 60 hp (jockey) submersible axial-flow. Total station design is 52,000 gpm or 116cfs. Discharge is to the Intra-Coastal Waterway via Little River.
- **Midway Stormwater Pump Station, Miami, Florida -** Project Engineer for the design and permitting of a stormwater pump station and forcemain under the SR-826 discharging to the North Line Canal through an energy dissipating structure and outfall. The pump station will transmit the runoff collected from the existing collection system to the North Line Canal through directionally bored twin 24-inch diameter carrier pipes in two 36-inch HDPE casing pipes that cross under FDOT's SR-826 Expressway.
- **Basin D-8 Drainage Basin Improvements, Town of Palm Beach, Florida** - C3TS was selected to evaluate and design improvements to the existing D-8 drainage basin in the Town of Palm Beach comprising 250+ acres of residential neighborhood and roadways. Specific tasks included evaluation of existing basin utilizing CPR modeling techniques, and full design plans for basin-wide drainage improvements. Additional duties included surveying, underground soft-dig utility locates, utility relocation, geotechnical investigation, and permitting through the South Florida Water Management District (SFWMD).
- **NW 16th Street Water Main and Sewer Force Main, Lauderhill, Florida –** Responsible for 3,100 L.F. of 16" DIP; 400 L.F. of 16" HDPE Pipe (HDD under US-441); and 800 L.F. of 12" DIP for this project. The main purpose of this wastewater transmission main project is to provide wastewater service to new development in the east portion of the City; in particular to the new Central Broward Regional Park, new developments such as Georgetown, and to provide pump station flow relief. A large 16" diameter HD polyethylene pipe crossing under US-441 was required. Work was performed by a contractor specializing in HDD (horizontal directional drilling).
- **Turnpike Crossings, Lauderhill, Florida -** Responsible for the design drawings and specifications for four Horizontal Directional Drillings (HDD) beneath the Florida Turnpike. HDPE (high density polyethylene) was used for a casing pipe and carrier pipe for both water mains and force mains. Florida Turnpike Enterprise was rebuilding the Turnpike and the City's old transmission mains needed to be abandoned and replaced. C3TS decided to design new force mains and water mains under the Turnpike with the new HDPE pipe installed via HDD (horizontal directional drill). Work was done using FDOT approved methods and materials. Facilities were installed in rapid succession and tied into DI pipe at its ends. Restrained joints were designed throughout both the water and the wastewater transmission mains.
- **Sanford Avenue Drainage & Utility Improvements, Palm Beach, Florida –** Senior Engineer for this project which included the full re-design of a two-block section of Sanford Avenue in the Town of Palm Beach. The design included replacement of the roadway, curbing, drainage system, water, sewer and street lighting components of the project. Town of Palm Beach required special low profile curb elements and new design had to conform to existing driveway profiles while still improving drainage characteristics. Design of the sanitary and water systems had to tie in to existing facilities at each end of the project, while upgrading piping and MAS structures. Project also included conduit for cable television, BellSouth and FP&L to eliminate overhead service lines. Project required phasing to accommodate access to resident driveways.

EDUCATION

B.S. Civil Engineering, The Citadel – The Military College of South Carolina 1971

Certified Construction Specifier (CCS)

PROFESSIONAL REGISTRATION

Florida Professional Engineer License No.: 40961

EXPERIENCE

Mr. Clarke has over ten years of experience on numerous roadway projects for the Florida Department of Transportation and municipalities in Miami-Dade, Broward & Palm Beach Counties. His experience also includes the inspection, construction, and coordination of utilities for major projects, including urban arterials, limited access facilities, and design/build projects for FDOT. He has extensive permitting experience with many of the regulatory agencies including the Department of Environmental Resources Management (DERM), South Florida Water Management District (SFWMD), Department of Environmental Protection, Miami-Dade County Water and Sewer Department, Department of Health, and Miami-Dade County Public Works Department. Mr. Clarke also has experience as a field inspector on pavement rehabilitation, water mains, force mains, pump stations, storm drainage, sanitary sewers, signals, Sanitary Sewer Evaluation Studies (SSES) and Sanitary Sewer Repair and Rehabilitation (SSRR) projects. He is proficient with various engineering software tools such as MicroPaver, Graphical Information System (GIS), AutoCAD, AutoTURN, MathCAD, MircoStation, , and HEC-RAS. Some of his experience includes:

- **Joint Participation Agreement (JPA) Relocation Plans 16-inch Force Main Broward County, Florida** - Engineer of Record for this DBFOM project with concessionaire Dragados USA. Under this I-595 corridor roadway improvement contract, C3TS has been performing different design and permit utility relocations which fall within the City of Sunrise. One of them is this City of Sunrise Joint Participation Agreement (JPA) Relocation Plans 16-inch Force Main. The City of Sunrise Utilities Department owns and maintains an existing transmission 16-inch Ductile Iron Pipe (DIP) Force Main (FM) facility which currently serves residents and businesses throughout the I-595 corridor. It is necessary to relocate a portion of this FM since the proposed sound barrier wall number one (1), construction and drainage structures, and piping are in direct conflict with the existing FM. C3TS is in charge of the design to relocate approximately 1,026 LF of the existing FM, the technical special provisions, and permitting through FDOT (utility office) and Broward County Environmental.

- **Joint Participation Agreement (JPA) Abandonment Plans 24-inch & 12-inch Water Main and a new 12-inch Water Main Broward County, Florida-** Engineer of Record. The City of Sunrise Utilities Department owns and maintains an existing distribution 24-inch Ductile Iron Pipe (DIP) Water Main (WM) facility which currently serves residents and businesses along SR 84 EB between Hiatus and Bright Road. It is necessary to remove and abandon a portion of the existing 24-inch WM running east to west along the south side of State Road 84 WB, crossing north to south on I-595 (EB & WB), and SR 84 EB. A portion of an existing 12-inch WM that crosses the right-of-way north to south and ties into the existing 24-inch WM, will also be removed and abandoned at Bright Road. A new interconnection between an existing 24-inch and 12-inch WM at Bright Road is required as part of this abandonment. C3TS is in charge of the design to abandon and remove approximately 2,800 LF of the existing 24-inch WM, 12-inch WM (approximately 300 LF), and a new 12-inch WM interconnection, the technical special provisions and permitting through FDOT (utility office) and Broward County Health Department.

- **Old Plantation Water Control District Joint Participation Agreement (JPA) Relocation Plans 2-inch Medium Density Polyethylene (MDPE) Gas Line, Broward County, Florida.** Engineer of Record **.**Old Plantation Water Control District owns and maintains an existing 2-inch fiber glass liquefied petroleum (LP) Gas line on the North side of North New River Canal. Project limits are within Greenway West of the contractor's master plan between Nob Hill Road and Pine Island Road. The existing LP gas line is connected to an existing 18,000 gallon above ground gas tank near Pine Island Road and an existing pump station at Nob Hill Road. It is necessary to relocate and replace this fiber glass LP gas line with a new 2-inch MDPE line to facilitate the construction of Greenway West. C3TS is the engineer of record for the design to relocate and replace approximately 5,265 LF of the existing LP gas line, the Technical Special Provisions and permitting through South Florida Water Management District.

- **Town of Davie Joint Participation Agreement (JPA) Relocation Plans 4-inch Force Main, Broward County, Florida.** Engineer of Record. The Town of Davie Utilities Department owns and maintains an existing 4-inch Polyvinyl chloride (PVC) Force main (FM) facility which currently serves Bradford Marine. The existing 4-inch FM ties into an existing lift station at Bradford Marine then continues to the west North of SR 84 WB, Ramp U-15 and South of Canal Drive, and diverts to the North into New River Cove Apartments, where it terminates into an existing manhole. It is necessary to relocate a portion of this FM to facilitate the proposed Greenway East construction. C3TS is the engineer of record for the design to relocate approximately 942 LF of the existing FM, the Technical Special Provisions and permitting through FDOT (utility office) and Broward County Environmental.

EDUCATION

Masters in Civil Engineering, Florida International University, 2008

Bachelor of Science in Civil Engineering, Florida International University, 2002

PROFESSIONAL REGISTRATION

Florida Professional Engineer No. 66553

FDOT Advanced Maintenance of Traffic Certification

FUCC Utility Coordination Certifications: COORDINATION, COST ESTIMATE & BILLING, and CONSTRUCTION

FDOT Specifications Package Preparation Training for Consultants

Philip A. Frank

Senior Environmental Scientist

Areas of Participation / Responsibility

Threatened and Endangered Species Surveys and Impact Assessment, Endangered Species Biological Assessments (ESBA), USFWS/NMFS Biological Opinions, Section 7 Consultations, Wetland Impact Assessment and UMAM Analysis, Marine/Benthic Resource Assessments, Coral Relocation Plans, Terrestrial, Wetland and Marine Restoration Planning, Mitigation Plans, Mitigation Monitoring and Assessment, Invasive Exotic Species Control, Resource management Plans, Governmental Affairs and Agency Coordination.

Years of Experience

25 Years of Experience
With Terramar Environmental Services: 6 Years

Office Location

1241 Crane Boulevard, Sugarloaf Key, FL 33042

Education

Ph.D. University of Florida, Wildlife Ecology and Conservation
M.S. University of South Florida, Zoology
B.S. Indiana University, Biology

Percent Availability

50% Keys-wide

Overview

Dr. Frank has over 25 years of experience in environmental conservation with agencies at both the State and Federal Level. He spent over 13 years with the USFWS and FWC in the Florida Keys. Dr. Frank was a Project Manager with the FWS and FWC for numerous threatened and endangered species conservation and recovery projects in the Florida Keys. He has a unique and respected ability to relocate corals off of bridges (i.e. Bahia Honda Bridge) and has established an excellent relationship with the Florida Keys National Marine Sanctuary. He has overseen the design and construction of numerous mitigation projects in the Keys for FDOT. His experience with listed species in the Florida Keys includes the Key Largo wood rat, Key Largo cotton mouse, Key deer, Lower Keys marsh rabbit and silver rice rat.

Professional Experience

Vice-president, Terramar Environmental Services, inc. 2004 – 2010. Serves as Vice President for Terramar Environmental Services, inc., a private consulting firm specializing in wildlife and endangered species conflict resolution, terrestrial and marine habitat restoration, public/private conservation policy and land use planning.

Senior Environmental Manager, Consulting, Engineering and Science, Inc. 2005-2010. Serve as Senior Environmental Manager for Consulting, Engineering and Science, Inc. (CES). Responsible for project management for CES's Florida Keys environmental consulting operations throughout the Keys. Conduct environmental assessments, endangered species biological assessments, design and implement habitat mitigation and restoration projects, and coordinate projects with appropriate regulatory agencies.

Project Leader, U.S. Fish and Wildlife Service, 2002-2005. Served as Project Leader for the Florida Keys National Wildlife Refuges. Responsible for the administration of four National Wildlife Refuges in the Florida Keys that encompass a total of 400,000 acres of lands and waters. Supervised a staff of 18 managerial, technical, law enforcement, maintenance, and administrative personnel with an annual budget of approximately $1.3 million dollars. Provided leadership for the Florida Keys National Wildlife Refuges on a wide variety of issues including wildlife management, endangered species recovery, habitat management including prescribed fire, and land acquisition.

Fish and Wildlife Biologist, U.S. Fish and Wildlife Service, 2000-2002. Responsible for the administration of the Endangered Species Act in the Florida Keys. Responsible for coordinating recovery actions for threatened and endangered species. Design pertinent research and management projects that address endangered species concerns, secure project funding, and coordinate with government agencies, private organizations, and academic institutions to implement recovery actions. Responsible for biological review of development projects that impact threatened and endangered species in the Florida Keys including the coordination of the Habitat Conservation Plan for Big Pine and No Name Keys.

Wildlife Biologist, U.S. Fish and Wildlife Service, National Key Deer Refuge, 1999-2000. Responsible for all aspects of terrestrial wildlife conservation on the National Key Deer Refuge with an emphasis on threatened and endangered species including the endangered Key deer, Lower Keys marsh rabbit, silver rice rat and Key Largo woodrat. Routinely conducted population surveys, habitat assessments, and habitat restoration actions. Collected and analyzed data, wrote summaries and reports, and communicated results to the scientific, regulatory and general public.

Wildlife Ecologist, Florida Fish and Wildlife Conservation Commission, *1992 to 1998.* Responsible for all aspects of wildlife conservation efforts, listed species permitting, and development review for the FWC in the Florida Keys. Responsibilities include review and comment of development proposals to local, State and Federal regulatory on the effects of development on wildlife habitat and populations. Provided technical assistance to a wide range of organizations regarding wildlife ecology and conservation in the Florida Keys.

REECE & WHITE LAND SURVEYING, INC.

P.O. BOX 432123. BIG PINE KEY, FLORIDA 33043
PHONE (305) 872-1348
FACSIMILE (305) 872-5622
EMAIL reecepa@aol.com

RESUME: Joe Robert White, PSM

TITLE: Professional Surveyor and Mapper

PROFESSIONAL EXPERIENCE:

Over twenty-seven years of experience in all aspects of surveying including construction stake-out, boundary, sectional breakdown, topographic and hydrographic surveys.

EDUCATION:

Troy State University, Bachelor Degree in Criminal Justice/Geography
Continuing Education Courses:
- Mean High Water Surveying Field Practices
- 6 Credit Hours – Legal Descriptions
- 6 Credit Hours – Florida Minimum Technical Standards

PROFESSIONAL REGISTRATIONS & LICENCES:

Professional Surveyor and Mapper – Florida #LS6688
U.S. Merchant Marine Officer – USCG Charter Boat Captain

PROFESSIONAL MEMBERSHIPS:

Florida Surveying and Mapping Society - Member

Joe Robert White, PSM
President, Reece & White Land Surveying, Inc.

Date: May 13, 2011

Paul Passe, PE, CPM
Chief Geotechnical Engineer
Professional Service Industries, Inc.

Year started with PSI: **2001**
Years experience with other firms: **23**

Education
Bachelor of Science, Civil Engineering, University of Wisconsin - Platteville, 1978

PROFESSIONAL ORGANIZATIONS AND REGISTRATION
- Registered Professional Engineer, #34750, Florida, 1984
- Registered Professional Engineer, #15265, Alabama, 1984
- Registered Professional Engineer, #16667, Minnesota, 1982
- Registered Professional Engineer, #21569, Wisconsin, 1982
- Certified Public Manager

Affiliations/Memberships
- American Society of Civil Engineers (ASCE)

Professional Experience
Mr. Passe has over 30 years experience in the field of geotechnical engineering and materials testing, 13 of which were spent working directly with the Florida Department of Transportation. He spent four of those years as District Geotechnical Engineer, responsible for assignment of project managers for design and construction, and the other eight as the State Geotechnical Engineer, acting as Senior Review and troubleshooter for projects state wide as well as provided guidance and leadership for geotechnical policy and procedures for the FDOT. He has participated in over 100 various geotechnical and construction projects regarding, roads, bridges, buildings and sinkholes all over the State of Florida. He has also done numerous presentations for the FDOT at conferences and seminars, and helped develop geotechnical-related specifications and training courses. He serves on the Geotechnical Institute, Transportation Research Board and National Cooperative Highway Research Program task forces, committees and panels.

Representative Experience

- **Port of Miami Tunnel, Design Criteria Package, Miami Dade County, FL.** Chief Geotechnical Engineer. One of the largest single undertakings of the Florida Department of Transportation, the Port of Miami Tunnel will connect the Port of Miami to the MacArthur Causeway. This innovative project has been bid for Design/Build/Finance and is awaiting approval. PSI's role in the preliminary design has been that of subconsultant to Parsons Brinkerhoff. PSI has provided geophysical investigations and geotechnical exploration for the tunnel from Watson Island to the Port using innovative drilling and sampling procedures, including over water borings in the Channel to depths greater than 150 feet below the mudline. PSI fees for these services are nearing $1,000,000.00 and the total projected cost of the entire project is on the order of 2 billion dollars. PSI Fees: $1,000,000.00

- **SR 826/836 Interchange, Miami-Dade County, FL** *Financial Project ID: 24958115201* (Ongoing)
Chief Geotechnical Engineer. On November 30, 2009, the Florida Department of Transportation (FDOT) District Six in partnership with the Miami-Dade Expressway Authority (MDX) began a reconstruction project of the S.R. 826/Palmetto Expressway and S.R. 836/Dolphin Expressway Interchange. The construction limits are approximately just north of SW 8th Street to NW 25th Street on S.R. 826; just east of NW 87th Avenue to NW 57th Avenue on S.R. 836. Capacity improvements include the reconstruction and widening along both S.R. 826 and S.R. 836, the construction of a four-level interchange and the reconstruction/modifications of the Flagler Street/ S.R. 826 and the Milam Dairy Road/NW 72nd Avenue/S.R. 836 interchanges. The $558,880,178 project was awarded to Community-Condotte DeMoya Joint Venture. PSI is providing subsurface exploration and geotechnical engineering as well as foundation certification services as a sub-consultant to HR Engineering Services, Inc. PSI Fees: $600,000.00 (approx)

- **W18th Avenue (from W 60th Street to N. of W 64th Street), Hialeah, Florida.** Chief Geotechnical Engineer. PSI conducted a roadway soil survey to provide geotechnical roadway recommendation for the pavement reconstruction and drainage improvements of W. 18th Avenue from W. 60th Street to north of W. 64th Street in Hialeah, Florida. Our services included performing field reconnaissance, utility clearance, subsurface exploration, percolation tests, laboratory testing, measuring groundwater depths, providing engineering evaluations and recommendations.

Drew Badri, PE
Project Geotechnical Engineer/Project Manager
Professional Service Industries, Inc.

Year started with PSI: **2003**
Years Experience with Other Firms: **N/A**

Education

- MS in Geotechnical Engineering, University of Florida, 2003
- BE in Civil Engineering, National Institute of Technology Karnataka, India, 2001

Certifications/Registrations/Technical Training

- Registered Professional Engineer, #68718, Florida, 2008
- Registered Professional Engineer, #72686, Ohio, 2008

Affiliations/Memberships

- American Society of Civil Engineers (ASCE) – Board Member Miami-Dade ASCE

Professional Experience

Mr. Badri has over eight years of geotechnical experience on various public and private sector projects. A vast variety of Mr. Badri public sector projects have included a large array of projects involving roadway, bridges, canals, schools, healthcare facilities. Mr. Badri's public sector clients have included Florida Department of Transportation (FDOT), Port(s) (Miami and Port Everglades), South Florida Water Management District (SFWMD), School District(s) and engineering services for various Cities and Municipalities. In addition, Mr. Badri was involved in the geotechnical design of several healthcare projects and major developments such as the Shops at Mid-Town and the Village of Merrick Park. Mr. Badri was extensively involved in the field and laboratory testing phase for both the Port of Miami Tunnel (Geotechnical Data Report) as well as the Florida Power & Light (FPL) transmission line across Biscayne Bay. Both these projects involved undertaking over-water field activities in highly environmentally sensitive regions and required substantial coordination with various permitting agencies. Mr. Badri is currently providing post-design services on the Port of Miami Tunnel project. He has also been involved in several projects involving problematic soil conditions, wherein ground improvement techniques were evaluated and resulted in substantial project savings. As part of his MS degree curriculum at the University of Florida, Mr. Badri performed extensive research on the axial capacity of large diameter cylindrical piles.

Representative Project Experience

- Baptist Health South Florida, Homestead, Florida
- West Kendall Baptist Hospital, Miami, Florida
- Leon Medical Center, Miami, Florida
- SR 826/836 Interchange, Miami-Dade County, Florida.
- Port of Miami Tunnel, Geotechnical Data Report, Miami-Dade County, Florida.
- HEFT Bird Road and Homestead Toll Plazas, Miami-Dade County, Florida
- SR 869 Deerfield Toll Plaza Modifications Design-Build, Broward County, Florida
- I-95 Managed Lanes Design-Build, Miami-Dade County, Florida
- I-95 Roadway Widening, S.R. 60 to C.R. 52 (10 miles), Indian River County, Florida
- S.R. 838 Bridge over Sunrise River, Broward County, Florida
- Saxony Hotel, Miami Beach, Miami-Dade County, Florida
- 5th & Alton, Miami Beach, Miami-Dade County, Florida
- Miami Intermodal Center (MIC), Miami-Dade County, Florida
- Shops at Mid-Town, Miami-Dade County, Florida
- Village of Merrick Park, Miami-Dade County, Florida
- I-95 Noise Walls in Palm Beach County, Florida

City of Key West

GENERAL ENGINEERING SERVICES

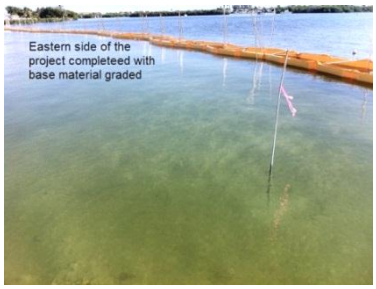
RFQ #12-005

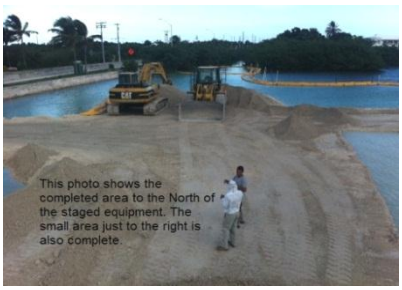
RELEVANT EXPERIENCE

RELEVANT EXPERIENCE

Houseboat Row Seagrass Restoration Project
Key West, Florida

Client name and phone number:	FDOT, District 6 Mr. John Palenchar 305-470-5223	**Contractor name and phone number:**	Charley Toppino & Sons, Inc., P.O. Box 787 Key West, Florida 33041 (305) 296-5189
Description of the scope of the work	The Houseboat Row site is a historic seagrass flat that was dredged for the mooring of houseboats. C3TS was responsible for environmental services and monitoring a contractor to restore 2.61 acres of seagrass habitat at the historic Houseboat Row site located just east of South Roosevelt Boulevard in Key West. C3TS restored the dredged area by backfilling the area to re-establish the historic elevation for successful seagrass colonization. The proposed project was authorized and permitted by the U.S. Army Corps of Engineers (USACE) and the South Florida Water Management District (SFWMD) as mitigation for impacts associated with the reconstruction and roadway improvements of North Roosevelt Boulevard (SR 5/US 1).		





Project Start:	April 2011	**Project Completion:**	April 2012
Total Design Fees:	$45,899.00		
Total Construction Cost:	$1.1 Million		

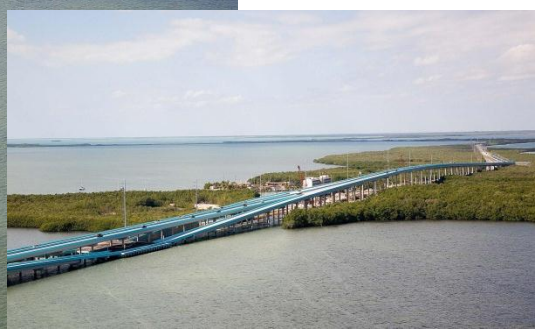
RELEVANT EXPERIENCE

Jewfish Creek Design-Build Bridge
Key Largo, Florida

Client name and phone number:	FDOT District 6 Mr. Jose Barrera, P.E. (305)470-5260	**Contractor name and phone number:**	Granite Construction Company 6215 East Sligh Avenue Tampa, Florida (813) 623-5877

Description of the scope of the work:

The firm of C3TS was part of the original design team that developed final construction plans for a new high-level bridge to replace the existing bascule bridge over Jewfish Creek along SR 5 / US 1 in the Upper Florida Keys. The original concept included a 4-lane facility with two access interchanges on either side of Jewfish Creek to access the Gilbert's Marina and the Anchorage Resort. The interchange structure for the Anchorage Resort consisted of a series of bridge ramps connecting to the mainline bridge; while the access interchange to the marina consisted of the use of geogrid stabilized embankment over approximately eleven feet of muck. As part of the original design, C3TS was also responsible for the development of the maintenance of traffic and stormwater pollution prevention plans for the 2-mile corridor. When this original project was stopped by environmental and public concerns the Florida Department of Transportation modified the original project to a 2-lane facility and advertised the project to utilize the Design-Build project delivery system. C3TS, as part of the Design-Build Team, competed and won the Design-Build contract worth approximately $140 million. As an innovative concept the Design-Build Team developed a new bridge ramp configuration for the access to the Anchorage Resort consisting of the use of four diamond type slip ramps and a roundabout for the five leg intersection below the mainline. The photos depicted here represent the bridge ramps and bulkhead wall design concepts designed by C3TS as part of the Design-Build Team.



Project Start:	January 2005	**Project Completion:**	December 2008
Total Design Fees:	$800,000		
Total Construction Cost:	$140 Million		

RELEVANT EXPERIENCE

Capital Improvements – Master Planning, Design & Construction Phase Services
Golden Beach, Florida

Client name and phone number:	Town of Golden Beach Mr. Alexander Diaz, Town Manager (305) 932-0744	**Contractor name and phone number:**	Southeastern Engineering Contractors 12054 N.W. 98th Avenue Hialeah Gardens, Florida 33018 (305) 557-4226

Description of the scope of the work:

This comprehensive Capital Improvements Program focused on three major improvement areas:

Town-wide Drainage Improvements. These improvements included design review, costs analysis, and recommendations based on the Town's existing stormwater master plan which includes construction inlets and culverts to collect and direct stormwater runoff to pumping stations discharging into the intracoastal waterway.

Utilities Underground Relocation (electrical, telephone, cable). These improvements included a thorough analysis of the Town's existing power system configuration, and close coordination with FPL and other utility companies in developing a plan for burying all utility transmission and distribution lines throughout the entire Town.

Town-wide Streetscape & Traffic Calming. The Town's major thoroughfares and side streets were redefined and enhanced to increase public safety, and improve the quality of life and aesthetic appeal. Improvements included highlighting intersections with concrete pavers and crosswalks, delineating of roadways with valley edge gutters, construction of traffic splitter islands and center median with new landscaping, and new lighting.







Project Start:	December 2007	**Project Completion:**	March 2013
Design Service Fees:	$ 1.35 Million		
Total Construction Cost:	$17 Million		

RELEVANT EXPERIENCE

Watermain-Master Plan & System Design
Pinecrest, Florida

Client name and phone number:	Village of Pinecrest Ms. Yocelyn Galiano-Gomez Village Manager (305) 234-2121	**Contractor name and phone number:**	Conquest Engineering (No Longer in Business) 8491 NW 17th Street, Suite L-111 Miami, Florida 33126 (305) 599-2370

Description of the scope of the work:

This project included the design of over 12 miles of watermain to complete the potable water system of the entire east half of the Village. The Master Plan was prepared that included a computerized model of the entire system and public workshops and meetings were held to inform and educate the residents of the extensive work and cost involved in the project. C3TS designed and prepared construction plans for the full 12 miles of planned watermains. Two phases were funded by Miami-Dade County General Obligation Bond. The two phases of construction provided potable water to over 550 properties previously connected to individual private wells. C3TS provided full Construction Inspection and Administration.

Project Start:	April 2008	**Project Completion:**	March 2010
Total Design Fees:	$1.03 Million (includes final design of entire $20 Million in master-planned 12 miles of watermain)		
Total Construction Cost:	$4.4 Million		

RELEVANT EXPERIENCE

Zones 1, 2, 3 & 4 Water & Sewer – Construction Phase Services
Key Biscayne, Florida

Client name and phone number:	Village of Key Biscayne Public Works Department Mr. John Gilbert, Village Manager (305) 365-5514	**Contractor name and phone number:**	Trans Florida Development 13960 S.W. 144 Avenue Road Miami, Florida 33186 (305) 378-2323

Description of the scope of the work:

Zones 1 & 4 Water Main and Sanitary Sewer Replacement:
C3TS provided engineering design services and construction administration for this project that includes the construction of sanitary sewers, manholes, existing pump station upgrades and modifications, lateral connections, fire hydrants, water main replacement including valves and appurtenances, and roadway/right-of-way restoration, and other related work as shown on the plans.

Zones 2 & 3 Reclaimed Water & Line Replacement Sanitary Sewer:
C3TS is providing engineering design services and construction administration for Zones 2 & 3 which are West of Crandon Boulevard. The boundaries for Zones 2 & 3 are approximately: Harbor Drive to the West, West Mashta Drive to the South, West Heather Drive to the North, and Fernwood Road to the East. The work includes the construction of sanitary sewers, manholes, pump station, lateral connections, fire hydrants, water main replacement and reclaimed water main including valves and appurtenances, and roadway right-of-way restoration, and other related work.

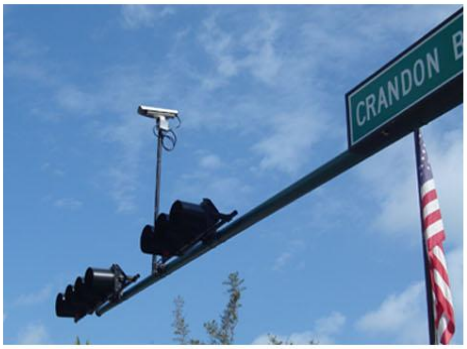
Project Start:	Zones 1 & 4: July 2007 Zones: 2 & 3: June 2008	**Project Completion:**	Zones 1 & 4: February 2009 Zones: 2 & 3: June 2010
Total Design Fees:	Zones 1 & 4: $790,000 / Zones 2 & 3: $895,000		
Total Construction Cost:	Zones 1 & 4: $6.5 Million Zones 2 & 3: $9.3 Million		

RELEVANT EXPERIENCE

Crandon Boulevard Master Plan & Traffic Improvements
Key Biscayne, Florida

Client name and phone number:	Village of Key Biscayne Mr. Jud Kurlancheek, AICP Director of Building Zoning and Planning (305) 365-8908	**Contractor name and phone number:**	M. Vila & Associates (No Longer in Business) 12097 NW 98th Avenue Hialeah Gardens, Florida 33018 (305) 821-1226
Description of the scope of the work:	This Master Planning and Traffic Calming Improvements project involved improvements to the "Main Street" of the Village of Key Biscayne. This four-lane divided county road cuts through the heart of the community and is heavily traveled by residents, visitors to Bill Baggs State Park, and county transit buses. The road is also the most heavily traveled bicycle corridor in Miami-Dade County and has a high level of pedestrian use. The project goals were improved public safety; easing of traffic congestion; traffic calming; pedestrianization; improved mass transit; and streetscape beautification. Master plan improvements included the addition of bicycle lanes; widening of sidewalks; narrowing of travel lanes; curbing the outside edges of road; tightening of curb radii; full reconstruction of intersections to create paver plazas; construction of bus shelters and bus bays; improvements to signalization systems; improvements to lighting; landscaping, and street furniture. The improvements were completed in three phases and funded through a variety of state and county sources.		




Project Start:	February 2004	**Project Completion:**	October 2007
Total Design Fees:	$960,000 (Design: $530,480 / Construction: $249,520)		
Total Construction Cost:	$10 Million		

RELEVANT EXPERIENCE

84th Avenue Improvements
Plantation, Florida

Client name and phone number:	City of Plantation Mr. Brett Butler, P.E. City Engineer (954) 797-2282	**Contractor name and phone number:**	Weekley Asphalt Paving, Inc. 20701 Stirling Road Pembroke Pines, Florida 33332 (954) 680-8005

Description of the scope of the work:

C3TS was selected by the City of Plantation to revitalize its central business district and create a mixed use area conducive and attractive to pedestrian, bicycles, and mass transit. C3TS' design was done with the intent to eliminate vehicular traffic within the city's three primary corridors in the central business district, while promoting the use of mass transit vehicles and shuttles, thereby connecting the major work center to commercial, retail and residential areas.

C3TS' streetscape design included the construction of mixed use walkways, textured crosswalks, parallel parking, landscaped medians, and a roundabout at a key intersection of the City. As part of the City's master plan, a greenway transit route for the entire midtown area was included. C3TS not only worked with the City in designing the route for bus transit but also assisted the City in researching the different types of transit vehicles available to them. Working hand-in-hand with the City on this issue, C3TS ensured that the design delivered met the needs and expectations for the entire scope of the greenway project. In addition to the roadway design components, the project also included bus shelters to be used by Broward County Transit buses as well as City of Plantation Circulator Shuttles.

Project Start:	May 2011	**Project Completion:**	Under COnstruction
Total Design Fees:	$275, 000		
Total Construction Estimated Cost:	$4.2 Million		

RELEVANT EXPERIENCE

Old Cutler Road (SW 87th Avenue to SW 97th Avenue)
Cutler Bay, Florida

Client name and phone number:	Town of Cutler Bay Ralph Casals, Public Works Director (305) 234-4262	**Contractor name and phone number:**	Acosta Tractors 11986 NW 97th Ave Hialeah Gardens, Florida 33018 (305) 556-0473

Description of the scope of the work:

C3TS was contracted by the Town of Cutler Bay as prime consultant to design improvements for the portion of Old Cutler Road between SW 97th Avenue and SW 87th Avenue. The project consists of roadway improvements, traffic circles, pavement resurfacing, sidewalks, drainage facilities, medians, landscaping and lighting.

Old Cutler Road is designated a historic roadway which required all improvements to respect the existing roadway footprint, thus limiting the modification and/or additional widening of the road. This Miami-Dade County roadway is considered an arterial collector roadway. The proposed configuration for Old Cutler Road will include roundabouts at each end of the corridor for traffic calming and beautification. The 1.24 mile corridor between these two roundabouts will be a two lane roadway with turn lanes, landscape medians and scramble lanes. Permitting including Miami-Dade County Public Works DERM and Town of Cutler Bay.

Project Start:	January 2010	**Project Completion:**	November 2012
Total Design Fees:	$475,000		
Total Construction Estimated Cost:	$7.1 Million		

RELEVANT EXPERIENCE

Belle Meade Drainage Improvements
Miami, Florida

Client name and phone number:	City of Miami Capital Improvements Program Mr. Jose Lago, P.E., CFM Project Manager (305) 460-5004	**Contractor name and phone number:**	APAC (No Longer in Business) Faustin Denis, P.E. (786) 298-6856

Description of the scope of the work:

Belle Meade is a 45-acre, single family, residential neighborhood located in the northeastern portion of the City of Miami adjacent to Biscayne Bay. Over the years, problems with the inadequate drainage infrastructure, tidally influenced groundwater, site elevation, and deteriorating streets created a condition of moderate to severe flooding in the area. The City commissioned C3TS to perform a drainage study and best alternative drainage solutions for the problems at Belle Meade. The final design would consider the most effective drainage design, inconvenience during construction, permitting and environmental concerns, effectiveness and reliability, cost, maintenance, and operation. The City's design criteria was that a five-year storm have no ponding and that a ten-year storm have no more that six inches of ponding at the inlets. As an important step in the design process, an AICPR@ (Interconnected Pond Routing Model) model was developed. The model was run and calibrated based on existing conditions. Design iterations were then input into the system and evaluated against the City's design criteria. The final design recommendation was a 120 cfs pump station with approximately 4,000 feet of collection system.

Project Start:	September 2006	**Project Completion:**	June 2010
Total Design Fees:	$295,000		
Total Construction Estimated Cost:	$1.8 Million		

RELEVANT EXPERIENCE

Sanford Avenue Drainage and Utility Improvements
Palm Beach, Florida

Client name and phone number:	Town of Palm Beach Department of Public Works Mr. Paul Brazil, P.E. Director Public Services (561) 838-5440	**Contractor name and phone number:**	D.S. Eakins Construction Corp. P.O. Box 530185 Lake Park, Florida 33403 (561) 842-0001
Description of the scope of the work:	The project included the full re-design of a two block section of Sanford Avenue in the Town of Palm Beach. The design included replacement of the roadway, curbing, drainage system, water, sewer and street lighting components of the project. Town of Palm Beach required special low profile curb elements and new design had to conform to existing driveway profiles while still improving drainage characteristics. Design of the sanitary and water systems had to tie in to existing facilities at each end of the project, while upgrading piping and MAS structures. Project also included conduit for cable television, BellSouth and FP&L to eliminate overhead service lines. Project required phasing to accommodate access to resident driveways.		

Project Start:	January 2008	**Project Completion:**	January 2009
Total Design Fees:	$42,000		
Total Construction Estimated Cost:	$450,000		

RELEVANT EXPERIENCE

Waterway Park
Palm Beach County, Florida

Client name and phone number:	Palm Beach County Parks & Recreation Dept. Ms. Karen Arndt, Project Manager (561) 233-0208	**Contractor name and phone number:**	West Construction, Inc. 318 South Dixie Highway Lake Worth, Florida 33460 (561) 588-2027

Description of the scope of the work:

C3TS was selected to provide planning, design and permitting services for this 15 acre park in NE Palm Beach County on the Intracoastal Waterway. The park facility included a boat ramp and parking for 60 vehicles with boat trailers, boardwalk and fishing docks, floating dock staging piers, seawall and erosion measures, a restroom building, environmental educational kiosks, roadway and utility infrastructure, and mitigation areas for mangrove, seagrasses and gopher tortoise habitat. The project had access issues with adjacent properties and required the design and permitting for a dedicated entrance via FDOT turn lane off of Indiantown Road. Legal requirements necessitated a re-plat of the properties as well as some land transactions between the client and the adjacent property owners. Environmental permitting included a full ERP permit through South Florida Water Management District, Florida Department of Environmental Protection and the Army Corps of Engineers, along with Coast Guard and FIND approvals. Other permits included site plan approval through Palm Beach County and the Town of Jupiter, ERM tree removal and relocation permits, utility permits for water and sewer and FDOT permit for the turn lane. Critical to the project was the coordination with the adjacent property owners HOA who had to approve the project prior to design because of joint access issues.

Project Start:	February 2010	**Project Completion:**	Under Construction
Total Design Fees:	$465,000		
Total Construction Cost:	$5.2 Million		

RELEVANT EXPERIENCE

Marine Max Facility at Ocean Reef Club
Key Largo, Florida

Client name and phone number:	Ocean Reef Club Mr. George Richards (305) 367-5919	**Contractor name and phone number:**	Bunnell Foundation Inc. 3033 N.W. North River Drive Miami, Florida 33142 (305) 633-3369

Description of the scope of the work:

C3TS was selected for the engineering design, permitting and construction administration for the replacement of 350 linear feet of failing concrete T-pile and panel seawall with a cantilevered steel sheet pile wall. The project included the rehabilitation of floating dock units with 24 slips – including new concrete piles, pile guides and PT timber whalers. The project also included the reconstruction of a reinforced boat-forklift platform, and new electrical and water system with Marina Power seawall-mounted pedestals.

Project Start:	July 2010	**Project Completion:**	September 2011
Total Design Fees:	$80,000		
Total Construction Cost:	$1.4 Million		

RELEVANT EXPERIENCE

Fort Pierce Inlet Marina Boat Ramp Facilities
Fort Pierce, Florida

Client name and phone number:	St. Lucie County Mr. Don McLam (772) 462-1514	**Contractor name and phone number:**	Community Asphalt Corp. 5100 29th Court Vero Beach, Florida 32967 (772) 770-3771
Description of the scope of the work:	C3TS was selected for this recreational boat ramp facility featuring 4 boat ramps, floating dock finger piers, 2 staging areas, concrete seawall and cap, rip-rap revetments, parking for 75 vehicles with trailers, passenger car parking, drainage and wetlands areas, water, sewer and electrical service, lighting, information kiosks and turn lane access from State Highway with entrance feature.		

Project Start:	Phase II June 2007 – April 2008	**Project Completion:**	August 2010
Total Design Fees:	$175,00.00		
Total Construction Cost:	$836,000.00		

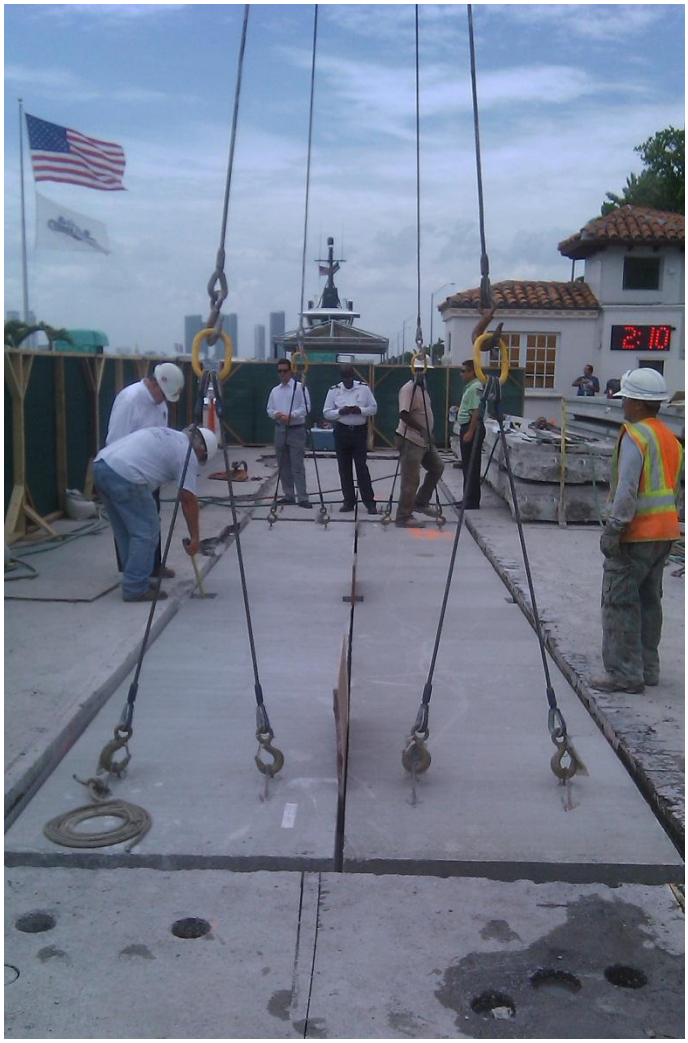
RELEVANT EXPERIENCE

Fisher Island Ferry Terminal
Fisher Island, Florida

Client name and phone number:	Fisher Island Community Association Mr. Jim Politis (305) 535-6043	**Contractor name and phone number:**	Bunnell Foundation Inc. 3033 N.W. North River Drive Miami, Florida 33142 Phone: (305) 633-3369

Description of the scope of the work:

C3TS was selected for this repair and rehabilitation project of a 30-year old over water platform in Government Cut, Miami Beach. 19 of the existing structure's 65 floor slab units were replaced and extensive repairs of the substructure piling, beams, and bulkheads were made. The project construction was accomplished in four separate phases so that the ferry terminal platform could remain fully operational and in service during the 60 day construction period. Permitting included FDEP, Miami-Dade County DERM, ACOE, and the Miami Beach Building Department.



Project Start:	August 2010	**Project Completion:**	December 2010
Total Design Fees:	$69,000		
Total Construction Cost:	$750,000		

City of Key West

GENERAL ENGINEERING SERVICES

RFQ #12-005

MANAGEMENT APPROACH

MANAGEMENT APPROACH

Municipalities and publicly-owned utilities have been our backbone clients since shortly after our firm's formation. We know that Municipal needs stem from the natural mission of a municipality, which is to serve its citizens with necessary services at a high value - meaning a high ratio of quality to cost. Our mission, therefore, has been to provide high value services to our clients, by understanding those needs and working hard to satisfy them, and exceed them. In so doing we become an extension of our client by making their mission ours as well. And it is for this very reason that C3TS has succeeded in maintaining a long list of repeat municipal clients, with whom long relationships have been formed.

Our understanding of the contract is that the City of Key West is seeking one or more qualified firms to provide planning services, design services, permitting assistance, bid and proposal development services, and services during construction of a variety of engineering projects. The C3TS Team can provide all of these services on a regular basis, and understands the needs of how each are handled.

The C3TS Team approach to any general service contract is to simplify the process and streamline the effort by assigning the best, most qualified individuals to the assignments, and keeping them in those positions so that the experience they gain through working there allows them to function more efficiently for the Owner. Our work on task order based contracts has provided us with a methodology that can be implemented on all similar type contracts.

The main priority is to develop an organizational structure that meets the needs of the Owner by placing experienced staff at their disposal. To this end, an organizational chart is included that indicates the personnel that we are committing to this contract. Please note that even though individuals have been indicated by their main area of expertise, almost all individuals possess experience and talent that allows them to perform many other civil engineering related tasks beyond that which is shown, to collaborate on projects, and to serve as formal or informal quality reviewers and in support to those individuals in the primary assignment.

The second priority is to establish clear lines of communication and responsibility, as well as the methods by which all tasks are assigned and handled. For this contract, the Principal in Charge and Project Manager will be vital as the points of contact and all task assignments will go through them. From the moment that a specific task is requested, a specifically designed method of approach is implemented and is outlined in flow chart form as shown herein. This "tracking" method has proven to be very valuable to our clients and has worked well over the years.

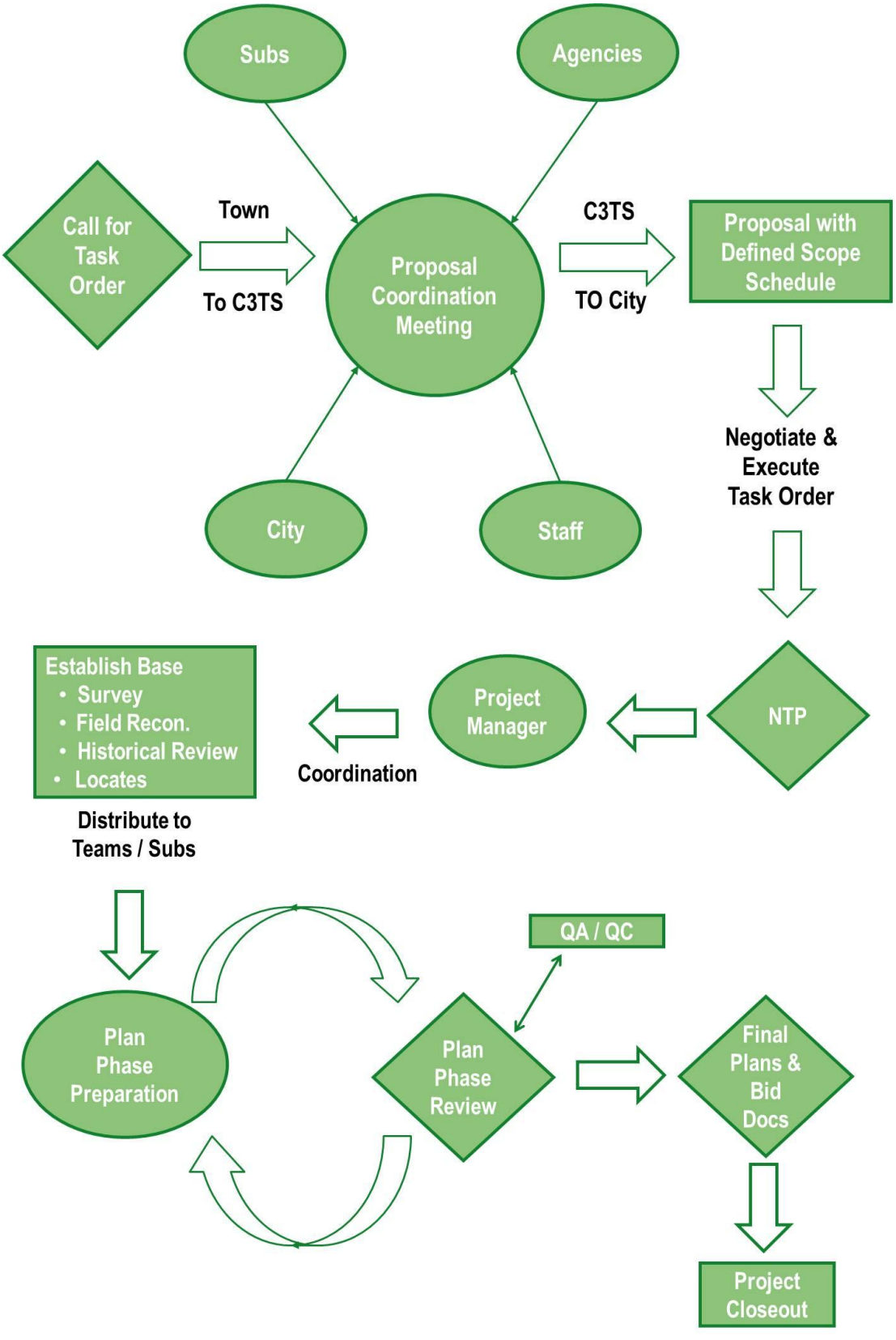
For the services requested, we propose to separate the specific tasks as requested by the Owner and steer it in the direction of our in-house specialists. As the request for a specific task originates with the City, the Principal in Charge and Project Manager shall respond to each and every request as the point of contact and then disseminate the work accordingly. In this manner, consistency and continuity are maintained throughout the duration of the contract, and the potential for lost tasks or requests is greatly reduced and eliminated. Interaction with City staff and other consultants will also be addressed up front by the Project Manager so as not to get involved in too many layers of personnel which can confuse and delay objectives. The idea is for our team to stand in the shoes of the Owner as if we were the City and not look at this as an assignment to pick up and complete separately. Since C3TS has an in-house public information department, we are increasingly aware of the importance to act on behalf of the owner as if we were one of the major stakeholders in every action that is taken.

Specifically for this contract, **we have assigned Mr. Daniel Grandal, P.E., CFM, LEED AP as Project Manager**. Mr. Grandal is a Principal Associate of our firm and will commit his time to the management of this contract, and has the knowledge, experience, and ability to utilize all available resources and manpower to complete the task successfully. Should the level of attention require that more time is needed, adjustments in internal work load will be made to allow the contract to function as needed. In fact, all general service contracts have peaks and valleys of time requirements that come and go with the needs. C3TS is aware of this and the success of our firm exemplifies the fact that we have learned how to accommodate Owner's time demands.

MANAGEMENT APPROACH

TASK-ORDER MANAGEMENT FLOW CHART

The below task order management flow charts describe the general steps for a general continuing contract:



MANAGEMENT APPROACH

DRAINAGE AND ROADWAY PROJECTS

The C3TS Team has a great deal of experience in drainage and roadway projects in South Florida area. We are local experts for drainage facilities of all types, including their benefits and cost. We have experience with exfiltration trench systems, slab-covered trench systems, dry & wet detention, pump stations, gravity well, pumped wells, and direct outfall to the drainage canal and other water bodies. Our approach to a roadway and drainage design starts by evaluating all possible solutions for effectiveness, cost and permitability. We model all our drainage designs using advanced software programs like ICPR, HEC and GIS to establish the effectiveness of the proposed solutions for varying storm events. Our Team will provide several solutions with their associated cost estimates and our recommendations for the City's evaluation. When the proposed solution is selected, we will prepare plans and specifications in accordance to local, state and federal regulations. Our familiarity with these projects will allow us to quickly get the project designed, permitted and constructed.

C3TS has extensive experience in roadway improvements, beautifying areas with streetscape and landscaping while providing necessary infrastructure including drainage, water and sewer. Additional engineering experience includes numerous roadway improvements including widenings, reconstruction, drainage upgrades, signalized intersections, and traffic calming, as well as major highway and interchange work. C3TS provides an integrated approach with innovative solutions to satisfy the City and its residents.

A few examples of our recent experience are shown in the related project experience and range from small localized ponding projects to large regional drainage projects. Of special note is Belle Meade Drainage and Roadway Improvements which was recently completed for the City of Miami. This project consisted of drainage and roadway improvements for over 60 acres of residential neighborhood on the coast. The area is tidally influenced and many of the roadways were built below the seasonal high tides. As a result, the street floods up to two feet of water several times during the year. The existing drainage system did not meet the minimum standards established by the City and was extremely flood prone. C3TS analyzed several solutions including pump assisted wells, exfiltration trenches and a large pump station. The City decided to go with a large pump station for the lower areas and exfiltration trenches for the areas with higher elevation. In order to minimize cost, a resurfacing plan with a combination of milling and resurfacing and partial reconstruction was developed. Additional elements of the project included sidewalk repairs, new curb and gutter, lighting improvements, and landscaping. The project was completed successfully and for the first time since its inception, the residents do not have to deal with tidal flooding and are protected up to a 25-year storm event.

STORMWATER MASTER PLANNING AND ASSET MANAGEMENT

The C3TS Team is experienced in the preparation and execution of Stormwater Master Plans and Floodplain Managements Plans. C3TS is proud to have assisted the City of North Miami in the preparation of the North Miami Floodplain Management Plan that successfully improved the City's CRS Class 4 which it has maintained. We also recently assisted Miami Lakes in obtaining a CRS Class 4 from a Class 6.

Our team has the expertise in local drainage solutions and hydraulic modeling to prepare a superior master plan that will focus on feasible solutions. We have not only planned but also constructed the drainage facilities including pump stations, exfiltration trench systems, direct outfalls to canals or other water bodies, gravity and drainage wells. Our extensive experience in local drainage systems and conditions will help strengthen the master plan by providing viable solutions with accurate cost and schedules. Drainage solutions would be provided for varying levels of protection including schematic design and cost estimates. This allows the City to submit for grant funding for projects that provide higher level protection with funding that was previously beyond the City's reach. These projects providing protection for 25-year and 100-year storms would be eligible for credit under FEMA's Community Rating system to potentially improve the City's Class.

MANAGEMENT APPROACH

ENVIRONMENTAL SERVICES

The C3TS Division of Environmental Services provides a wide array of expertise in the areas of natural, physical, and socio-economic impact analysis, documentation and mitigatory solutions. Our staff have well established reputations and are respected within the environmental regulatory community for the highest quality of work and responsiveness. Our capabilities are based on solid education, experience, and understanding of the need to balance development and the preservation of the environment.

Our Environmental Services of interest to the City include Field Investigations, Environmental Reports and Regulatory Permits. Field Investigations cover Wetland Evaluations, Seagrass, Mangroves and Freshwater Emergents. Other environmental investigations and reports are Coral Relocations, Water Quality Studies, Hardwood hammocks, Pineland Communities, Threatened / Endangered Species Testing & Analysis, Contamination assessment, Air Quality Evaluation, Noise Study Assessments, Socio-Economic Demographic Analysis. We have also performed Environmental Impact Statements, Environmental assessments, Categorical Exclusions, Reevaluations, Contamination assessment Reports – Liability, Phase I and II Audits, Endangered Species Biological Assessments, Wetland Evaluation Reports, Essential Fish Habitat, Air Quality Reports, and Noise Study Reports. Our wide ranging capabilities can help the City meet any environmental challenge that it may be faced with.

Environmental Permitting can be a confusing and complicated resulting in project delays or cancellation of necessary projects. C3TS experienced staff can help the City navigate through the process and offer solutions and accurate permitting timelines to successfully complete projects. Our permitting experience includes Wetland Jurisdictional Determination, Miami-Dade County DERM, Florida Department of Environmental Protection (FDEP), South Florida Water Management District (SFWMD), U.S. Army Corps of Engineers (USACE), Wetland Impact Assessment + Functional Analysis, UMAM, WRAP / WATER, Mitigation Assessments and Permit Compliance Monitoring.

UTILITY PROJECTS

We have worked with public water & sewer utilities throughout South Florida, in the areas of pump stations, water distribution, gravity collection systems, reclaimed water systems, telemetry and SCADA systems, and are familiar with the local, county, and regional regulatory requirements, permitting processes, and the typical conditions placed upon construction and operational permits.

Over the years, these relationships have allowed us the opportunity to work closely with clients on projects for planning and implementation of facilities. We have recently completed campuswide SSES and pump station improvements at Florida Iinternational University (FIU), and construction management of sewer pump station and collection system as well as a reclaimed water lines for the Village of Key Biscayne.

On water & sewer projects, we have represented cities and institutions such as FIU, Pinecrest, North Miami Beach, South Miami, Medley, Lauderhill, Plantation and most recently Key Biscayne as their general consultants under a continuing service contract. These long term relationships illustrate our ability to solve diverse and complex programs and to create practical and concise solutions that can be implemented.

PUBLIC PRESENTATIONS AND PUBLIC HEARINGS

It would not be uncommon for the General Engineering Environmental Consultant to be asked to make public presentation before the City Commission, before other regulatory bodies, or to the public. C3TS is very experienced and knowledgeable in making such

MANAGEMENT APPROACH

presentations, preparing exhibits, handouts, and responding to questions in non-technical language that is understandable to residents and stakeholders. We have made presentations to elected bodies as well as to the public at public hearings and at informal neighborhood gatherings, and we have conducted charrettes and brainstorming sessions, some with the public present and others with stakeholders. When conducting charrettes and brainstorm sessions, we have guidelines for the facilitator and the group to follow.

COST ESTIMATING AND SCHEDULING CONTROL

C3TS is experienced in permit and plan production scheduling for certain types of projects. Permitting can affect the cost estimate from the basis that last minute changes required by agencies can sometimes blow estimates out of the water and cancel projects altogether. We shall determine all possible impacts early on so that the preliminary cost estimates stay relatively the same as the plans are finalized. A schedule shall be submitted at the NTP so the City can track production as well as permitting all the way through bid and security of contractor. Construction material costs have varied greatly over the last few years causing a lot of problems with accurate cost estimates. C3TS has general contractors on staff as well as experienced construction administrators to ensure that cost estimates are current and realistic.

Cost Control

Cost estimating remains a critical part of our design process and cost control methodology. C3TS will develop all costs within the defined goals using constructability analysis, value engineering, budget constraints, and scheduling to achieve those goals. Cost control will be achieved by adopting a predictive cost planning approach. Generally, we produce these cost estimates during the course of the design. **During all phases of the project, C3TS will review the construction cost estimates and refine the design to maintain the project on-budget and on-time.**

C3TS has extensive experience in helping municipalities achieve positive bottom line results by improving existing processes, identifying new ones, and pinpointing areas for cost savings. We have the management perspective and specialized knowledge needed in order to deliver major cost reductions with improved efficiencies to our clients. Our effective management team reviews the anticipated costs, researches alternative savings methods on a continual basis and monitors progress and quality to reduce your costs.

Schedule Control

We understand how critical schedules are. Maintaining a project on schedule begins with understanding the key issues that drive it, and developing contingency plans to control it. The primary purpose of the project schedule is to provide a full accounting of all relevant activities and phases as well as the proper sequencing of project related events such that the project is delivered on schedule. We feel confident we can meet the City's project schedules because of our varied background of this kind. Following are some of the ways we propose to control the project schedule:

- Coordination with Subconsultants (long-standing relationships enable us to understand their process)
- Accelerate non-critical path activities to compensate for unforeseen delays later on
- Meet with City's staff, public officials, and key community members ahead of time for consensus on key project issues
- Pro-active Project Management Plan (PMP)
- Clear understanding of Scope of Services ensures schedule is created correctly from the beginning
- Allow for proper QA/QC time

MANAGEMENT APPROACH

Quality Control

At C3TS, we use the most current technology, which allows for optimum and accurate design. We use an in-house peer review Quality Control / Quality Assurance (QA/QC) program to complete our assignments within schedule, at budgeted cost, and with high quality and reliability. All work is executed in conformance with applicable codes and standards. The work of any sub-consultants we use is subjected to the same review as our C3TS generated work.

We at C3TS are proud to be able to say that our firm-wide errors and omissions resulting in claims is less than ½ of 1% of construction budgets. This is due to the following:

- Principal Involvement during all Stages of Design and Construction
- Established QA-QC Program
- Independent Peer Review Prior to Major Deliverables

PLAN METODOLOGY

The C3TS quality control team utilizes a two-part independent checking process for its projects. First and foremost is the development of the QC program to verify that the project analysis methods and work products meet or exceed the requirements of the project scope for all work items, are free of errors and omissions, and are based on sound practices and principles. Second is the development of the QA program to assure that the QC program is being complied with and is effecting compliance with the project scope of services. Basic tenets of the QC program include:

- ✓ The project manager has complete authority and responsibility to execute the work.
- ✓ A "kick-off" meeting will be held with key members of the project team to define the scope of work and the quality requirements.
- ✓ All project decisions will be documented.
- ✓ All supporting calculations, text or data used to develop the project documents will be signed and dated by the preparer when the work is performed. All telephone conversations and meetings, which include or affect a project decision, will be documented. Minutes of meetings will be prepared and distributed to attendees for confirmation of decisions made and then filed after appropriate action.
- ✓ All project documents will be reviewed and/or checked by qualified individuals who are not directly performing the initial work activity. The individual doing the checking will sign and date the documents and will prepare a record of review after checking the findings. The findings will be resolved by the originator of the document and rechecked until satisfactorily resolved.
- ✓ The Project Manager or designated alternate(s) will monitor and evaluate the review and/or checking activity for the project. The review will specifically cover such items as clarity, accuracy, completeness, scope compliance, etc. Any follow-up activity required will be noted and initiated as appropriate.
- ✓ Individuals independent of project staffing will periodically and at specific targets review all project development documents for adequacy, conformance with the scope of work, completeness, accuracy, and proper documentation.

MANAGEMENT APPROACH

CONSTRUCTION SERVICES

The C3TS Team includes a Construction Administration division fully staffed with knowledgeable inspectors experienced all types of municipal projects. Our construction managers are seasoned engineers with experience in competitive bid contracts, the standard contract languages used by municipalities, including the EJCDC and AIA issued documents, the conditions issued by FDEP on SRF Loan contracts, and are experienced with the documents that protect the Owner. The C3TS Team has an organized process for bid evaluations, award recommendations, and NTP procedures, as well as submittal review, stamping, and record keeping. Additionally, the inspector's logs and records, including site photographs are all maintained electronically and delivered to the Owner with the contractor's payment requests, or as requested by the Owner. We are very familiar with the regulatory requirements that must be fulfilled and the close-out documents that are necessary to be satisfactorily presented before we certify a project as complete.

Having worked on projects whose funding can be from multiple sources, we usually develop checklists that are sometimes project specific, but more often than not have similar if not identical requirements, and these are used to substantiate payments.

All of our inspectors, and many of our engineers have special certifications for different trades or systems, and we assign these individuals to a project when needed. These include structural, electrical, mechanical, LEED, pavement, and maintenance of traffic. We understand our job, our responsibilities, as well as our limitations of authority, and we make sure contractors understand them as well, which makes for a smoother construction inspection and review process. Some of our staff have special OSHA training, including confined spaces, chlorine facilities, haz-mat, and others. If an individual requires training, it is done prior to the start of the project, and usually indicates that the contractor must also have similarly trained individuals and the certificates provided for our records and the City's.

CONCLUSION

We believe that the **C3TS TEAM** has the experience and knowledge in planning and designing public and private projects that no other firm can match. We are confident that we can successfully fulfill and execute the requirements of this contract and **provide the City of Key West with an outstanding project**.

City of Key West

GENERAL ENGINEERING SERVICES

RFQ #12-005

REQUIRED FORMS

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 employee of the City of Key West as a commission, kickback, reward or gift, directly or indirectly by me or any member of my firm or by any officer of the corporation.

BY: Ramon Castella, P.E.

Sworn and prescribed before me this

31st day of July, 2012

NOTARY PUBLIC, State of Florida at Large

My commission expires: 11/27/2015

GRACE MORALES
Notary Public - State of Florida
My Comm. Expires Nov 27, 2015
Commission # EE 148461
Bonded Through National Notary Assn.

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. RFQ #12-005 for

   City of Key West – General Engineering Services

2. This sworn statement is submitted by Corzo Castella Carballo Thompson Salman, P.A. (C3TS)
   (Name of entity submitting sworn statement)

   whose business address is 901 Ponce de Leon Boulevard, Suite 900, Coral Gables, Florida 33134

   _____ and (if applicable) its Federal Employer Identification Number (FEIN) is 65-0039493 (If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement.)

3. My name is Ramon Castella, P.E. 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(1)(g), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of 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 the 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 its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the 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 State 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 convinced 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)

July 31, 2012
(DATE)

STATE OF FLORIDA

COUNTY OF MONROE

PERSONALLY APPEARED BEFORE ME, the undersigned authority,

Ramon Castella, P.E. who, after first being sworn by me, affixed his/her signature in the
(Name of individual signing)

space provided above on this 31st day of July, 2012.

My commission expires: 11/27/2015

GRACE MORALES
Notary Public - State of Florida
My Comm. Expires Nov 27, 2015
Commission # EE 148461
Bonded Through National Notary Assn.

EQUAL BENEFITS FOR DOMESTIC PARTNERS AFFIDAVIT

STATE OF FLORIDA)

: SS

COUNTY OF MONROE)

I, the undersigned hereby duly sworn, depose and say that the firm of Corzo Castella Carballo Thompson Salman, P.A. (C3TS) _____ provides benefits to domestic partners of its employees on the same basis as it provides benefits to employees' spouses per City of Key West Ordinance Sec. 2-799.

BY: Ramon Castella, P.E.

Sworn and prescribed before me this

31st day of July, 2012

NOTARY PUBLIC, State of Florida at Large

GRACE MORALES
Notary Public - State of Florida
My Comm. Expires Nov 27, 2015
Commission # EE 148461
Bonded Through National Notary Assn.

My commission expires: 11/27/2015

THE CITY OF KEY WEST

3140 Flagler Ave
Key West, FL 33040

ADDENDUM NO. 1
RFQ NO. 12-005: GENERAL ENGINEERING SERVICES
July 19, 2012

This addendum is issued as supplemental information to the RFQ package for clarification of certain matters of both a general and a technical nature. The referenced RFQ package is hereby addended in accordance with the following items:

1. Page 4 lists that a firm may submit for 1 or more of 5 the categories. Please confirm that we can submit for all 5 categories in one submittal package (2 copies + cds, etc), and we do not need to submit one package for each category (ie 5 sets of packages).

   Only one proposal package is to be submitted which identifies any one of, or all of the various disciplines listed in the RFQ that the Proposer is proposing services for.

2. Is submittal of an SF330 sufficient?

   Use of SF330 form is not required. Proposer shall submit a complete qualifications package in a format that contains all required elements.

3. Does the city have an MBE goal?

   No.

4. Are we to include subcontractors in our RFQ or can we add them based on the particular task order?

   Proposers shall identify each subconsultant that they are proposing using as part of this contract. City approval would be required if Proposer wishes to make changes or adds to the list of subconsultants once contract is issued. The qualifications of all members of a Proposer's team will be considered in the selection process.

5. On page 6 of the RFQ, License Requirements, it states that the winning respondent will also be required to obtain and maintain a City of Key West Business Tax Receipt. Could you please clarify if this means that the winning firm must have an office location in Key West?

Firms selected as part of this contract are not required to maintain an office in Key West.

6. Public Entity Crimes Certification was identified as being three (3) pages in length.

   Public Entity Crimes Certification is two (2) pages in length

7. Under the Submission Details section on page 5 reference is made to "Architect firms should submit a complete qualifications package that includes:"

   This should read "Engineering firms should submit a complete qualifications package that includes:"

8. Is a page limit for the submission information listed on page 5?

   No. However firms should limit their proposals to a reasonable number of pages.

9. Who are the current contract holders?

   The City does not track this information. Proposer can contact DemandStar by Onvia at www.demandstar.com/supplier or call toll-free 1-800-711-1712.

10. How much was spent under the current contract, and on what kind of projects?

    This information is unavailable. Proposers are reminded that no minimum amount of service or compensation will be assured to the retained firm(s).

11. The existing language under Qualifications Criteria:

    "Other certifications including LEED and LAP (Federal DOT) certified staff professionals"

    Shall be modified to read:

    "Other certifications including LEED and FDOT certified staff professionals"

12. Please clarify the submittal requirements for "Past five (5) years of specific relevant experience" under the Submission Detail section.

    The existing language

    Past five (5) years of specific relevant experience. The examples should include the name of client, client's representative, client's address and telephone number, key personnel involved in design phase services, design services fee, estimate of construction cost, name of contractor awarded project contract award amount, contractor's representative, contractor's address and telephone number.

Shall be modified to read:

Past five (5) years of specific relevant experience. The examples should include the project description, name of client, client's contact and telephone number, design services fee, identify if project was constructed or not and project cost, name of contractor awarded project, and contractor's representative and telephone number.

All Proposers shall acknowledge receipt and acceptance of this Addendum No. 1 by submitting the addendum with their proposal. Proposals submitted without acknowledgement or without this Addendum may be considered non-responsive.

Ramon Castella, P.E. — Signature

Corzo Castella Carballo Thompson Salman, P.A. — Name of Business

C3TS SERVICES

ARCHITECTURAL DESIGN

CIVIL ENGINEERING

COASTAL ENGINEERING

CONSTRUCTION ADMINISTRATION

ELECTRICAL ENGINEERING

ENVIRONMENTAL SCIENCES

GRANTS ADMINISTRATION

HIGHWAY ENGINEERING

INTERIOR DESIGN

MECHANICAL ENGINEERING

PUBLIC INVOLVEMENT

SITE DEVELOPMENT

STRUCTURAL ENGINEERING

URBAN PLANNING

C3TS

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