

Ten-Year Beach Management Plan

RFP #2024000131 — Charlotte County, Florida

Submitted January 10, 2024



Goodwyn Mills Cawood

Building
Communities



www.gmcnetwork.com

SECTION 0 Required Forms

PART IV - SUBMITTAL FORMS PROPOSAL SUBMITTAL SIGNATURE FORM

1.	Project Team Name and Title	Years experience	City of office individual will work out of for this project	City individual's office is normally located	City of individual's residence
	Scott K. Stannard, PE - Vice President	36	Sarasota, FL	Lutz, FL	Odessa, FL
	Scott Hutchinson, PE - Vice President	31	Lutz, FL	Daphne, AL	Fairhope, AL
	Diego Gaspard, EI - Project Engineer	10	Sarasota, FL	Lutz, FL	Wesley Chapel, FL
	Tim W. Larson, RLS - Landscape Architect	26	Sarasota, FL	Lutz, FL	Lutz, FL
2.	Magnitude of Company Operations				
	A) Total professional services fees received within last 24 months:			\$ 299,670,000.00	
	B) Number of similar projects started within last 24 months:			2	
	C) Largest single project to date:			\$ 1,082,000,000.00	
3.	Magnitude of Charlotte County Projects				
	A) Number of current or scheduled County Projects			0	
	B) Payments received from the County over the past 24 months (based upon executed contracts with the County).			\$0.00	
4.	Sub-Consultant(s) (if applicable)	Location	% of Work to be Provided	Services to be Provided	
	TerraMetrix	St. Petersburg, FL	15%	Survey	
	Quest Ecology	Wimauma, FL	20%	Environmental Permitting, Wetland Delineations, Biological & Species Studies	
	UES, Inc	Tampa, FL	10%	Geotechnical	
	South Coast Engineering, LLC	Fairhope, AL	10%	Engineering Expertise for Beach Restoration, Coastal Resilience, Wave Studies	
5.	Disclosure of interest or involvement: List below all private sector clients with whom you have an active pending contract and who have an interest within the areas affected by this project. Also, include any properties or interests held by your firm, or officers of your firm, within the areas affected by this project.				
	Firm	Address			
	Phone #	Contact Name			
	Start Date	Ending Date			
	Project Name/Description				

NAME OF FIRM Goodwyn Mills Cawood, LLC
(This form must be completed and returned)

SECTION 0 Required Forms

6. Minority Business: The County will consider the firm's status as an MBE or a certified MBE, and also the status of any sub-contractors or sub-consultants proposed to be utilized by the firm, within the evaluation process.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Comments or Additional Information:	
Quest Ecology is a certified DBE, WBE and SBE in the state of Florida.	

The undersigned attests to his/her authority to submit this proposal and to bind the firm herein named to perform as per contract if the firm is awarded the Contract by the County. The undersigned further certifies that he/she has read the Request for Proposal, Terms and Conditions, Insurance Requirements and any other documentation relating to this request and this proposal is submitted with full knowledge and understanding of the requirements and time constraints noted herein.

By signing this form, the proposer hereby declares that this proposal is made without collusion with any other person or entity submitting a proposal pursuant to this RFP.

In accordance with section 287.135, Florida Statutes, the undersigned certifies that the company is not on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List and does not have business operations in Cuba or Syria (if applicable) or the Scrutinized Companies that Boycott Israel List or is not participating in a boycott of Israel.

As Addenda are considered binding as if contained in the original specifications, it is critical that the Consultant acknowledge receipt of same. The submittal may be considered void if receipt of an addendum is not acknowledged.

Addendum No. 1 Dated 11/30/23 Addendum No. Dated Addendum No. Dated
Addendum No. Dated Addendum No. Dated Addendum No. Dated

Type of Organization (please check one): INDIVIDUAL ☐ PARTNERSHIP ☐
 CORPORATION ☒ JOINT VENTURE ☐

Goodwyn Mills Cawood, LLC (813) 885-2032
Firm Name Telephone

Goodwyn Mills Cawood, LLC 85-4128572
Fictitious or d/b/a Name Federal Employer Identification Number (FEIN)

2660 EastChase Lane, Suite 200
Home Office Address

Montgomery, AL 36117 76
City, State, Zip Number of Years in Business

21764 State Road 54 Lutz, FL 33549
Address: Office Servicing Charlotte County, other than above

Vice President, Engineering (813) 885-2032
Name/Title of your Charlotte County Rep. Telephone

Scott K. Stannard, PE
Name/Title of Individual Binding Firm (Please Print)

 1/9/2024
Signature of Individual Binding Firm Date

scott.stannard@gmcnetwork.com
Email Address

(This form must be completed & returned)

SECTION 0 Required Forms

DRUG FREE WORKPLACE FORM

The undersigned vendor in accordance with Florida Statute 287.087 hereby certifies that Goodwyn Mills Cawood, LLC
does: (name of business)

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).
4. In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction on or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.


Proposer's Signature

1/9/2024

Date

END OF PART IV

(This form must be completed & returned)

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video about GMC
and be sure to visit
our website at:
gmcnetwork.com.

SCAN ME! ▼





Goodwyn Mills Cawood

21764 State Road 54
Lutz, FL 33549

T (813) 885-2032
www.gmcnetwork.com

January 9, 2024

Senior Division Manager - Purchasing
Charlotte County Administration Complex
18500 Murdock Circle, Suite 344
Port Charlotte, Florida 33948-1094

RE: RFP 2024000131 - Ten-Year Beach Management Plan

Dear Members of the Selection Committee,

Goodwyn Mills Cawood, LLC (GMC) is pleased to submit our Statement of Qualification to Charlotte County in response to the above referenced RFQ. GMC has over 76 years of experience servicing governmental clients throughout southeast. Our goal is to be your partner through a long-term relationship, utilizing responsive local service and industry-leading expertise. We are uniquely qualified to serve your needs for the following reasons:

- 1) Experience:** We have a large, seasoned team of engineering, transportation, GIS, environmental, planning, and construction administration experts. We value long lasting wonderful relationships with numerous clients throughout Florida.
- 2) Team Work:** Our team has worked together on many projects of similar scope, and we can provide a continuity that is important when delivering a project for Charlotte County. If selected, we commit to working as an "extension of staff" for the County.
- 3) Local Service:** GMC has an office and staff located less than an hour from Charlotte County through which we will leverage our local understanding and experience working with the County. There is no substitute for the quality-of-service delivery that can be afforded by a local firm. As project manager, I will be available to Charlotte County on short notice and in person, to ensure that our projects are running smoothly and are exceeding the County's expectations.
- 4) Dedication:** We strive to build our reputation around the principles of responsiveness, deliverables that surpass client expectation, direct access to the senior management of the company, and dedication to the needs of our clients.

We are committed to developing personal, long-term relationships with our clients, ensuring that our staff clearly understands every client's unique and individual needs. We understand that prompt communication, timely implementation, and superior client service are important to our clients and paramount to successful and cost-effective project execution. We want to be your trusted resource – a "one stop shop" – that makes what you do easier.

We are the right team for your project needs. Not only do we have the qualifications and experience, but you have our personal assurance that Charlotte County will get the full benefit of our expertise and passion of service – we are excited to work with the County and we are ready to start immediately! Thank you for your consideration of our qualifications.

Sincerely,

Scott K. Stannard, PE

Project Manager / Vice President, Engineering
scott.stannard@gmcnetwork.com
(813) 885-2032



Section 1 Team Proposed for this Project

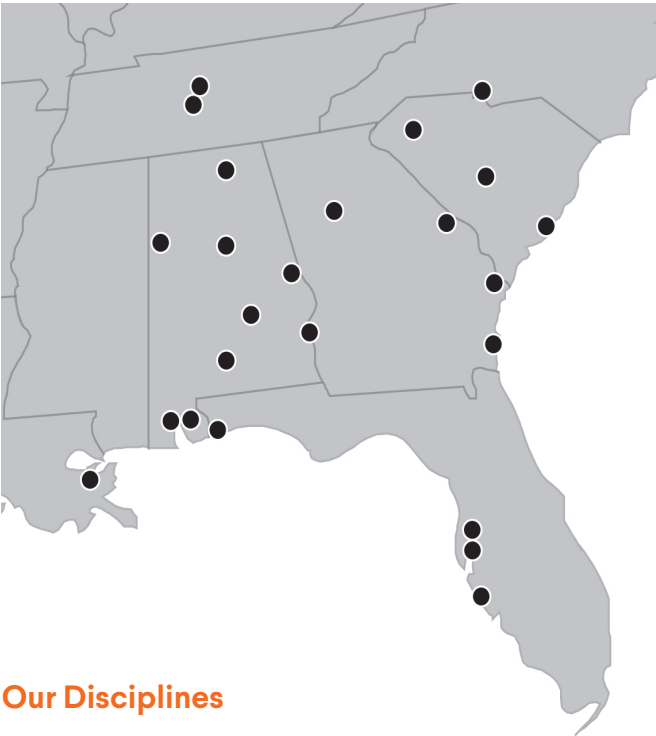


Who We Are

Goodwyn Mills Cawood (GMC), LLC is one of the largest architecture and engineering firms in the region with offices across the Southeast. Whether designing schools, parks, hospitals and other commercial developments, or providing clean water, safe streets and protecting endangered environments, GMC takes great pride in serving our communities through the transformative work we do. Every project is guided by the foundational concept that communities are built by people, not companies, and we strive to serve our communities with quality, integrity, creativity and care. GMC is equipped to provide all of the services associated with architecture, interior design, civil engineering, environmental services, landscape architecture, planning, transportation engineering, geotechnical engineering, electrical engineering,

surveying and disaster recovery. We provide services to a diverse group of public and private sector clients, including county and municipal governments, federal and state agencies, private corporations, industries and developers.

GMC offers creative solutions to complex challenges. Our staff recognizes that if a project is to be successful, it must first meet the needs of the client. Therefore, we work with each client individually to assure satisfaction in all areas of each project including a functional design and a project within budget. Measuring our success by our many accomplishments, we have a proven track record of meeting a client's design needs economically, efficiently, and in the time frame outlined by the client.



Office Locations

Alabama

Andalusia
Auburn
Birmingham
Daphne
Eufaula
Huntsville
Mobile
Montgomery
Vernon

Florida

Lutz
Pensacola
Sarasota
Tampa

Georgia

Atlanta
Augusta
Brunswick
Savannah

Louisiana

New Orleans

North Carolina

Charlotte

South Carolina

Charleston
Columbia
Greenville

Tennessee

Brentwood
Nashville

Our Disciplines



Architecture



Interior Design



Engineering



Environmental



Landscape
Architecture



Disaster
Recovery



GIS



Planning



Geotechnical



Electrical



Transportation



Surveying

SECTION 1 Team Proposed for this Project

Kevin Laird, PE

Executive Vice President, Engineering / Project Principal

(864) 527-0460 kevin.laird@gmcnetwork.com

Kevin is the Executive Vice President of the firm's Engineering Division and a registered engineer in the states of Alabama, Georgia, South Carolina and North Carolina. He focuses on client relationships, business development, engineering design, scheduling, contracts, and personnel management. Kevin joined the firm's Birmingham office in 2005 and moved to Greenville, South Carolina in 2007 to open the first office in the state.



Representative Project Experience

- Project leadership, design-build collaboration with Harper Corporation to design the \$9 million Clemson/SCRA Innovation Center - Pendleton, South Carolina
- Performed a county-wide strategic plan to further economic development efforts - Anderson County, SC
- Project leadership to procure the \$16 million Water Education and Environmental Center on Lake Hartwell. Led and directed a three-day design charrette involving business leaders and local, state and federal officials
- Organized and led a successful campaign to secure grant funds for the master plan of the Clemson University Advanced Materials Center
- Project leadership, Powdersville Sewer Capacity & Treatment Fee Analysis - Powdersville, SC
- Project leadership, 5-Mile Interceptor Capacity Analysis - Anderson, SC
- Project manager, Greenville Water - Water Resource Master Plan - Greenville, SC

Water and Wastewater Experience

- Horse Creek Water Pollution Control Facility - Aiken, SC
- Purrysburg Water Treatment Plant Expansion - Hardeeville, SC
- Anderson County Taste and Odor Improvements - Anderson, SC
- Startex-Jackson-Wellford-Duncan Membrane Water Treatment Plant Expansion - Duncan, SC
- Seneca Water Treatment Plant Upgrade - Seneca, SC
- Permitting and Pilot Study for Laurens County Water & Sewer Water Treatment Plant - Laurens, SC
- GSWSA Bull Creek SWTP Expansion - Conway, SC
- Pendleton-Clemson WWTP Expansion - Pendleton, SC
- Enoree Wastewater Treatment Plant Improvements - Woodruff, SC
- GSWSA International Drive Booster Pump Station - Conway, SC
- Anderson Regional Joint Water System Advanced Oxidation Process Upgrade - Anderson, SC
- Anderson Regional Joint Water System Filter Upgrade - Anderson, SC
- Lake Keowee Water Treatment Facility and Intake on Lake Keowee - Walhalla, SC
- Lake Greenwood Water Treatment Facility & Raw Water Intake - Laurens County, SC
- Big Creek Wastewater Treatment Plant Upgrade - Anderson County, SC
- Welpine and Betsy Tucker Gravity Sewer - Anderson County, SC
- Crestview-Sitton Hill Road Waterline - Easley, SC
- Iva CDBG Sewer Rehabilitation - Iva, SC
- Beaverdam Road Meter Pit - Anderson County, SC
- Williamston CDBG Sewer Replacement - Williamston, SC

Education:

Master of Civil Engineering, Auburn University, 2003
Bachelor of Science, Civil Engineering, Clemson University, 2000
Bachelor of Science, Crop, Soil and Environmental Science, Clemson University, 1998

Licenses and Certifications:

Professional Engineer, SC #25912, NC #037071,
AL #26999, GA #037191

Affiliations:

- South Carolina Economic Developers Association
- South Carolina Rural Water Association
- South Carolina Section - American Water Works Association
- 2010 Best and Brightest Under 35, Greenville Business Magazine
- Leadership Greenville Class 36
- 2013 Graduate of Leadership South Carolina

Scott K. Stannard, PE, CPESC

Vice President, Engineering / Project Team Lead

 (813) 885-2032  scott.stannard@gmcnetwork.com

Scott has over 30 years of experience in Site Development Planning and Civil Engineering for residential, commercial, industrial, governmental and municipal projects. He began his professional career in 1987 in Greenville, SC as a project engineer for a full service architectural and engineering firm. In 1989 moved on to a design-build firm as a project engineer and later department head of the Civil Group providing engineering and construction management for large scale industrial projects as well as higher education facilities. In 1993 Scott joined a small, civil engineering firm serving as the Director of Engineering from 1993 until 2006. In his capacity there he served as lead engineer, project manager, and/or engineer of record for over 300 small to large retail centers throughout the Southeast and Mid-Atlantic, many of which were for Fortune 500 companies guiding these clients through the site assessment, land planning, design and construction stages.

In 2007 co-founded CSS, Inc. with offices in Tampa, FL and Easley, SC. Since its founding CSS has provided site/civil engineering, landscape architecture, and land planning services for residential, commercial, and municipal projects. In 2023, GMC acquired CSS and now Scott serves as VP, Engineering, Florida.

Government/Municipal Experience

- Lead Engineer & Project Manager – 30 Slip Mooring Field Design and Permitting, City of Gulfport, FL
- Lead Engineer & Project Manager – Transient Dock Facility, City of Gulfport, FL
- Lead Engineer & Project Manager – Clam Bayou Nature Park and pier restoration, City of Gulfport, FL
- Lead Engineer & Project Manager – Vekara Bay Private Marina and Townhomes, City of Port Richey, FL
- Lead Engineer – 13 miles of Gravity and Pressurized Sewer including 4 major sewer lift stations, Belton, SC
- Lead Engineer – 5 miles major water distribution line – City of Greenwood, SC
- Lead Engineer and Project Manager – Multiple VA Outpatient Clinics – TN, NC, FL
- Lead Engineer – New Water Pumping Station and Elevated Water Storage Tank and Distribution System – Greenwood, SC
- Project Manager – Industrial Treatment Plant Renovations – Dade City Business Center, FL
- Staff Engineer – multiple TAC sites Ft Jackson, SC

Commercial Experience

- Lead Engineer and Project Manager – 120,000 SF Veterans Administration Outpatient Clinic Site – New Port Richey, FL
- Lead Engineer and Project Manager – 35 plus Murphy Oil Gas Stations throughout Florida
- Lead Engineer and Project Manager – 40 plus Aldi Grocery Stores throughout Florida
- Lead Engineer and Project Manager – 75,000 SF Class A Office Building – Tampa, FL
- Lead Engineer and Project Manager – 30 acre Mixed Use Development – Fort Myers, FL. Includes all infrastructure design for roads and utilities
- Engineer of Record – 150 plus Lowes Home Improvement Stores – the Carolinas and



Education:

Bachelor of Science, Civil Engineering, Clemson University, 1987

Licenses and Certifications:

- Registered Engineer – SC #15302, FL #50565
- Holds professional registration in 12 other states
- CPESC

Civic Activities:

- Board of Directors – Fellowship of Christian Athletes, Tampa, FL
- Board of Directions – Osprey Cove Office Park

SECTION 1 Team Proposed for this Project

Scott Hutchinson, PE Vice President, Engineering

(251) 626-2626  scott.hutchinson@gmcnetwork.com

Scott serves as the Daphne, Alabama Office Leader and a Project Manager for site development, roadway, environmental design, storm water management and numerous municipal solid waste and landfill projects. He is also responsible for Corps of Engineers permitting, National Pollutant Discharge Elimination System (NPDES) storm water permitting, ALDOT permitting and the permitting of landfills. Scott has provided site design for numerous piers, waterfront public access facilities and municipal parks. He has worked on the design and implementation of over 200 NRCS-EWP programs in South Alabama and has provided general engineering consulting for several municipalities. After graduating from Auburn University in 1992, he served as Environmental Engineer with the Alabama Department of Environmental Management (ADEM) where he was responsible for evaluating design plans and operational narratives to determine their compliance with applicable State and Federal environmental regulations.



Education:

Bachelor of Science in Civil Engineering, Auburn University, 1992

Licenses and Certifications:

- Professional Engineer FL #89687, AL #21830
- Design and Analysis of Highway Facilities
- Hydraulic Design of Highway Culverts
- Municipal Solid Waste Landfill Design
- Transfer Station Design and Operation
- Environmental Assessment for Real Property Transfers
- Erosion and Sedimentation Controls
- StormCAD

Environmental and Site Development Experience

- Marriott's Grand Hotel Spa and Beach Restoration – Point Clear, AL
- Pier Street Beach Restoration – Daphne, AL
- Bayfront Park Pier and Pavilion – Daphne, AL
- "Gator Alley" Boardwalk and Sidewalk – Daphne, AL
- Mayday Park and Pier – Daphne, AL
- Village Point Park Preserve – Daphne, AL
- Gulf State Park Back Country Trails – Gulf Shores, AL
- Trione Park – Daphne, AL
- Daphne Sports Complex – Daphne, AL
- Beach Restoration – Dauphin Island, AL

Stormwater Management Experience

- NRCS-EWP Program Design and Implementation (200+ Projects) – Baldwin County, Daphne, Spanish Fort, and Fairhope, AL
- MS4 Program Consulting – Spanish Fort, Daphne, and Fairhope, AL

Solid Waste Experience

- Solid Waste Disposal Authority Engineering Consultant – Mobile County, AL
- Design, Permitting, and Consulting for Numerous Landfills – AL

Roadway Experience

- Roadway Improvements – Gulf Breeze, FL
- County Roads Widening, Resurfacing, & Drainage Improvements – Mobile County, AL
- Thomas Hospital Pervious Parking Lot – Daphne, AL
- First United Methodist Church Pervious Parking Lot – Daphne, AL
- County Road 99 Widening – Baldwin County, AL
- 9th Avenue Design – Foley, AL
- Baldwin Beach Express Phase II – Baldwin County, AL
- Subdivisions: Sehoy (Phases 1-6), Song Grove, Huntington, The Willows, Fairfield (Phase 5), Tuscany Village, The Magnolias, Sageland, Oak Creek, Old Battles, Primland Subdivisions (Phases 1-3), Battles Trace (Phases 1-8) – Baldwin County, AL

Diego A. Gaspard, EI

Project Engineer

☎ (813) 885-2032 ✉ diego.gaspard@gmcnetwork.com

Diego has been with Commercial Site Solutions, Inc. since 2019 serving as a Project Engineer and heading up the technical design for the various CSS clients. He came to CSS from PTAC Consulting Engineers where he previously worked as a Structural Engineer from January 2014 until moving to CSS. In his time at CSS, Diego has taken ownership of the stormwater modeling department, providing all of the stormwater modeling and design necessary to meet the design and permitting requirements for Hillsborough, Pasco, Hernando, Sarasota, and Manatee Counties as well as FDOT and the State Water Management Districts. The modeling includes various modeling types such as ICPR, SWM Basin Models, HEC-RAS, Nutrient Loading and Removal Models, and Hydroflow/Hydrograph Rational Method Designs. This wide range of modeling proficiency all CSS to provide designs for wetland impacts, flood plain and overall basin analysis, County and State Basin model analysis, and potential stream impacts. Diego began his professional career in 2012 providing Quality Assurance for content developer. He is originally from Lima, Peru, immigrating to Florida in 2011. In 2023, GMC acquired CSS and now Diego serves as a Project Engineer in the Lutz office.

Stormwater Modeling Experience

Diego heads up our Stormwater Modeling Group, performing on-site and overall basin analysis using SWMM Modeling for Basins, ICPR Basin Modeling for SWFMWD and various municipalities, site specific on-site modeling to provide treatment and attenuation design, and Nutrient Loading Models to provide Nitrogen and Phosphorus reduction calculations. He has worked on models provided for residential, commercial, FDOT and institutional projects throughout Hernando, Pasco, Hillsborough, Pinellas, Manatee and Sarasota Counties.

- Manatee County & Sarasota Counties – grocery stores and various commercial retail sites throughout.
- Pasco County Basin Studies for various drainage basins to determine flooding issues and potential impacts of proposed developments to the overall basins. Multiple projects.
- Hillsborough County – large SWMM Model Designs for large residential development in multi-creek, split drainage basins. Modification of Hillsborough County SWMM model to show overall basin impacts for proposed development and flood plain analysis.

Various Retail Centers & Restaurants Experience

Diego has provided site design and stormwater modeling for multiple retail developments including Restaurants, C-Stores, Shop Space, Large Tenant Boxes, and Self-Storage Centers throughout Hillsborough, Pasco, Hernando, Sarasota, and Polk Counties. A sampling of tenants is as follows:

- C-Store Gas Stations
 - Riverview, FL – Hillsborough County, FL
 - Leesburg, FL – Lake County, FL
 - Ft. Meade, FL – Polk County, FL
 - Green Cover Springs, FL – St Johns County, FL
- Restaurants
 - Outback Steakhouse – Manatee County, FL
 - Jimmy's Fish Camp – Crystal River, FL
- Self-Storage



Education:

Bachelor of Science, Civil Engineering, University of South Florida, 2010

Master of Civil Engineering, University of South Florida, 2014

Licenses and Certifications:

Engineer in Training (EIT)

* Projects completed with previous firm.

SECTION 1 Team Proposed for this Project

Timothy W. Larson, RLA Landscape Architect

(813) 885-2032 tim.larson@gmcnetwork.com

Tim is Registered Landscape Architect and has recently joined GMC, LLC. He has over 20 years experience in providing landscape architecture and permitting services for a variety of commercial, public and residential projects. Tim began his career in with the Aquatic Development Group in Cohoes, NY where he worked as a designer on a number of indoor and outdoor waterparks. Tim later moved to Augusta, GA where he worked with Johnson, Laschober & Associates, P.C. as a landscape architect gaining experience in commercial, government, institutional and residential projects with involvement from concept master planning to construction. Tim worked at Morgan Wheelock, Inc. in Boston, MA where he worked on a number of high-end residential, equestrian and resort projects. In 2011 he moved to the Tampa, FL area to join CSS, Inc where he worked continued working primarily on commercial and multi-family residential projects.

Relevant Experience

- Aquatic Planting Plans - Six Mile Cypress Multi-Use Development, Lee County, FL
- Wetland Restoration Plans - Mulberry FL, Orland, FL
- Lead LA for Blanchard Woods Recreation and Nature Park, Augusta, GA
- Lead LA for Bioretention and Rain Gardens, Commercial Development, Atlanta, GA
- Multiple Street Scape Designs for small towns across Georgia
- Andrew Landing Apartments - Tampa, FL
- VA Clinic - New Port Richey, FL
- Six Mile Cypress Mixed Planned Development - Ft. Myers, FL
- Citrus Park Class A Office Building - Tampa, FL
- PCSC Independent & Memory Care Center - Easley, SC
- Columbia County Public Library & Performing Arts Center - Evans, GA
- Richmond County Health Department - Augusta, GA
- Walton Rehabilitation Center - Augusta, GA



Education:

- MLA, Cornell University, 1999
- Bachelor of Science in General Studies, Cornell University, 1996 (Junior and Senior year attendance)
- University of Florence, Italy (Freshman and Sophomore year attendance)

Licenses and Certifications:

Registered Landscape Architect, FL #LA6667115, GA #LA001411, NC #1696, VA # 0406001907

* Projects completed with previous firm.

Consultants

Coastal Engineering

South Coast Engineers, LLC, a consulting firm based in Fairhope, Alabama, specializes in civil engineering in the coastal environment – coastal engineering, coastal management and applied coastal science. The firm performs services in the planning and design of bay and beach shoreline erosion solutions, coastal ecosystem restoration, coastal highways and bridges, coastal wave and circulation modeling, marina and port design, seawall and coastal revetment design, and hurricane damage analysis and prevention.

South Coast Engineers mission is to enhance the quality of life along the coast with engineering which appropriately accounts for the area's unique waves, tides, sand, and ecosystems.

We work on projects around the world but focus on the US coastal states and island territories. We have developed much of the federal guidance on coastal engineering and coastal resilience for the planning, design, and operations of coastal roads and bridges. We do internationally-recognized work and would be a great choice for your coastal engineering needs.

Survey

Terra Metrix stands as a distinguished and comprehensive Land Surveying Company, offering a rich spectrum of expertise to meet diverse project needs. Our proficiency extends across various domains, including Land and Hydrographic surveying, Environmental mapping, Right-of-way mapping, Land planning, Expert witness, Subdivisions, Condominiums, Construction Management, and Boundary and Design surveying, making us a one-stop solution for all your surveying requirements.

In every facet of our operations, Terra Metrix upholds the highest standards of professionalism, accuracy, and innovation. We bring together a passionate team, state-of-the-art technology, and a commitment to excellence to deliver surveying services that go beyond expectations.

Environmental

Quest Ecology provides a full range of environmental permitting and ecological consulting services throughout the State of Florida for public and private sector clients, including local governments; state agencies, including the FDEP, FWC, FDOT, and Water Management Districts; utilities, mitigation banks, and mining companies. The Quest Team showcases many credentials/qualifications, including Professional Wetland Scientists (PWS), FWC Authorized Gopher Tortoise Agents (GTA), Prescribed Burn Manager, Certified Wildland Firefighters, Florida Association of Environmental Soils Scientist Affiliate, FDACS Licensed Herbicide Applicators, Master Bird Bander, FDEP Certified Stormwater Inspectors, and trained Wetland Assessment Procedure (WAP) field ecologists.

Geotechnical

Universal Engineering Sciences is a privately held, rapidly growing engineering and consulting firm with nearly six decades of experience in geotechnical engineering, construction materials testing, building code compliance, threshold inspections and environmental consulting. With more than 3,600 professionals across 85 branches in high growth markets in the U.S., UES consults on projects of all sizes for public and private clients in industries ranging from transportation and healthcare to commercial, residential, and education.

Experienced and proven, UES is considered a pioneer of the industry and stands at the forefront of emerging technology and best practices. Our work includes public and private clients, as well as public-private partnerships, and consists of projects ranging from transportation and infrastructure to aviation and aerospace. Our engineers, geologists, certified inspectors, scientists, and drillers offer an unwavering commitment to excellence, approaching each project with the knowledge that precision, professionalism, and creative solutions are what drive success and cultivate enduring client relationships.

The consultants will not be substituted without the express permission of the County.

SECTION 1 Team Proposed for this Project

Scott L. Douglass, PhD, PE, DCE SouthCoast Engineers President

Scott Douglass is the Founder and President of South Coast Engineers, LLC. Dr. Douglass over 40 years of experience in coastal engineering research and design and is a nationally recognized leader in coastal engineering related to storm damage, coastal transportation projects, living shorelines, and beach erosion solutions.

Dr. Douglass is the author of Saving America's Beaches.

EXPERIENCE

- South Coast Engineers, President
- Department of Civil, Coastal and Environmental Engineering, Univ. of South Alabama, Emeritus Professor
- Pare Engineering Corp., RI
- Coastal and Marina Engrg Consultants, NJ
- US Army Corps of Engineers, Coastal Engineering Research Center

COASTAL SCIENCE AND ENGINEERING PROJECTS

- Author of the USDOT Federal Highway Administration's (FHWA) primary guidance manuals for coastal highway planning and design: Highways in the Coastal Environment, Hydraulic Engineering Circular HEC-25, 2nd ed., FHWA-NHI-07-096 and Highways in the Coastal Environment: Volume 2: Assessing Extreme Events, HEC-25, vol. 2, FHWA-NHI-14-006.
- Author of Saving America's Beaches: The Causes of and Solutions to Beach Erosion (World Scientific Press, 2002) and over 100 technical papers on coastal engineering and science
- Expert witness in cases related to coastal science, engineering and policy: including wind vs. water damage in hurricanes and a case of original jurisdiction at the Supreme Court of the United States
- Coastal engineer for the Dauphin Island East Beach Restoration project.
- Coastal engineer for a marsh restoration project which won an ACEC National Recognition Award
- Engineer for the 2016 East End Beach and Barrier Island Restoration Project, Dauphin Island, AL which won a national Best Restored Beach award from ASBPA
- Designed numerous successful bay shoreline stabilization projects, i.e. "living shorelines," including the first one in the northern Gulf of Mexico as an alternative to bulkheads and the beach at Marriott's Grand Hotel Resort – Point Clear, AL
- Developed course and instruct the National Highway Institute Course No. 135082, Highways in the Coastal Environment, Federal Highway Administration
- Modeled storm surge (ADCIRC) and wave fields (STWAVE) during hurricanes under global climate change scenarios for USDOT-funded study – Gulf Coast 2
- Developed engineering assessments for resilience adaptations at coastal highway and bridge locations for the FHWA
- Developed the FHWA method for estimating hurricane wave loads on bridge decks

Engineering Education

BSCE Virginia Tech 1981
MSCE Mississippi State 1985
PhD Drexel 1989

PE Registration

Alabama/New Jersey
Florida/Mississippi

Specialty Certification

Diplomate of Coastal Engineering
Academy of Coastal, Ocean, Port & Nav. Engineers*

**Dr. Douglass is a Board Certified Coastal Engineer (BC.CE), a specialty certification conferred by the Academy of Coastal, Ocean, Port & Navigation Engineers (ACOPNE), a part of the American Society of Civil Engineers (ASCE). Board-certified coastal, ocean, port and navigation engineers demonstrate expertise in specific coastal, ocean, port, and navigation engineering areas and a commitment to staying up to date with new technology. This certification reflects a strong dedication to professionalism, ethics, and continuous professional development.*



William C. Ward, PLS

Professional Land Surveyor

 (813) 817-1115  wcwpls4815@hotmail.com

Mr. Ward has been involved in Land Surveying for 43 years. His fields of expertise cover Land and Hydrographic surveying, Environmental mapping, Right-of-way mapping, Land planning, Expert witness, Subdivisions, Condominiums, Construction Management, Boundary and Design surveying. Mr. Ward has served as President of Terramatrix Ilc, a full-service Land Surveying Company for the last 18 years.

Prior to that, Mr. Ward served as Vice President of Kearney Construction Company located in Tampa Florida for 20 years. Kearney was ranked in the top 5 site contractors in the Southeast United States with annual revenues in excess of 150 million and over 700 employees.

Mr. Ward previously served as a project surveyor for Post, Buckley, Schuh and Jernigan, Inc., where he was responsible for several right-of-way mapping projects for the Florida Department of Transportation and local Expressway Authorities. His responsibilities also included design surveys and subdivision platting for many large developments in the Tampa Bay Area.

HYDROGRAPHIC and MARINAS:

- Port of Tampa, Egmont maintenance dredge
- Egmont Key Beach re-nourishment
- West Shore, Tierra Verde maintenance dredge
- Marroli commercial docks, Clearwater
- Back Bay Preserve, Braden River Manatee County
- Tierra Verde Resort Marina
- Clearwater Marina
- Port Hudson Marina

PORTS:

- Tampa International Airport 2012 Expansion
- Orlando Regional Airport 2003 Expansion
- Madison Avenue Heliport, Tampa
- Alonzo Road Heliport, Tampa
- Port of Tampa Channelside development
- Port of Tampa Berth 6 expansion
- Port of Tampa – BP Oil facility

COMMERCIAL:

- Citrus Park Mall – Tampa, Florida
- International Plaza Mall – Tampa, Florida
- Hilton Garden Inn – Tampa, Florida
- St. Petersburg Yacht and Tennis Club – St. Petersburg, Florida
- Port Hudson Marina – Pinellas County, Florida
- Port Walter Prior Marina – Pinellas County, Florida
- Florida Gas Transmission / CSX Railroad – Various Counties, Florida
- Murphy Oil, USA



Education:

- University of Florida – BCN Building Construction
- Hillsborough Community College- Liberal Arts
- Hillsborough Community College – Construction Engineering Technology

Licenses and Certifications:

- Professional Land Surveyor, State of Florida No. 4815 (since 1990)
- U.S. Coast Guard Captain (MMC)
- WIC credentials for Airport and Port Access
- State of Florida Certified Wind Mitigation Inspector

Professional Associations:

- Tampa Bay Society of Professional Land Surveyors
- Florida Society of Professional Land Surveyors
- Florida Land Surveyors Council
- American Congress on Surveying and Mapping

RECREATIONAL / GOVERNMENT:

- Pasco County Government Complex – Pasco County, Florida
- Land-o-Lakes Recreation Complex – Land-o-Lakes, Florida
- Holiday Recreation Complex – Holiday, Florida
- Talbot Elementary School – Gainesville, Florida

LUXURY RESIDENTIAL HOMES AND CONDOMINIUMS:

- Oceana at Treasure Island – K&P Holdings (30 million)
- Sanctuary at Alexandria Place – Taub Development (60 million)
- EPOCH – Seaward Development (60 million)
- Finale at Sand Key – Taub Development (24 million)
- Casa Michelle – Windstar Homes (6 million)
- Lovullo Residence – Windstar Homes (8 million)
- Casa de Arcos – Tierra Verde (2 million)
- Seascapes – Arrowhead Development (3 million)
- Mast Residence – Anglo Homes (3 million)
- Busby Residence – Tolliver Payne (1.5 million)
- Sunset Point at Collany Key – Stroud Group (150 million)

EXPERT WITNESS:

- State Road 50 Eminent Domain
- Suncoast Expressway Eminent Domain
- Big Bayou Coquina Key commercial docks
- Florida Gas Corporation
- Palmarito Inc.
- City of Clearwater- Beach by Design- Divaco parcel
- City of Clearwater- Pierce 100



Vivienne Handy, PWS Principal Ecologist

Education:

BS-Biology, University of South Florida, 1984

Years of Experience: 32

Certifications and Training:

- Certified Professional Wetland Scientist (PWS, #370), Society of Wetland Scientists
- U.S. Army Corps of Engineers Wetland Delineation Methodology Course
- Uniform Wetland Assessment Methodology (UMAM) Training
- FDOT Project Development and Environment (PD&E) Manual Training
- FDOT Efficient Transportation Decision Making (ETDM) Training

Vivienne Handy is the President and Principal Ecologist for Quest Ecology Inc. She founded Quest in 1996 and has over 30 years of experience in environmental permitting and documentation, impact assessment, and natural resource management. Prior to the formation of Quest Ecology, Ms. Handy served in a variety of positions with regulatory agencies and consulting firms.

A significant portion of Ms. Handy's career experience has consisted of conducting and managing field studies and environmental documentation. This includes planning, permitting and construction oversight for a wide variety of projects and clients, from public conservation land planning to mine reclamation projects. Ms. Handy's recent focus has been on protected species and habitat management issues, including working with local governments, the Florida Fish and Wildlife Conservation Commission (FWC), and the US Fish and Wildlife Service (USFWS) on the development of Ecosystem Management Plans (EMP) and multi-species Habitat Conservation Plans (HCP). Ms. Handy has overseen the development of six HCP's, including county-wide plans involving multiple habitats and species, as well as project-specific Incidental Take Permits (ITP). Additionally, Ms. Handy is heavily involved in the development and permitting of wetland mitigation banks and conservation banks for listed species and was responsible for the permitting of the first Conservation Bank for Florida scrub-jay and sand skink in the State of Florida.

Currently, Ms. Handy manages projects throughout the state that involve impact assessments, Environmental Resource Permitting, HCP and EMP implementation, floral and faunal surveys, habitat restoration and management, and wetland mitigation design and site management. These projects are for local governments, the utilities, mitigation banks and public conservation lands.

Relevant Project Experience:

Magnetic Silencing Facility (MSF) Naval Submarine Base Kings Bay, Camden County, GA - Wetland jurisdictional determinations and agency site reviews, attended agency pre-application meetings, and prepared applications in support of obtaining local, state and federal environmental permits associated with repairs to the existing Magnetic Silencing Facility.

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Charlotte County County-wide HCP for Florida Scrub-jay, Charlotte County Natural Resources Department, FL – Project Director responsible for HCP development, including data collection, field surveys, Steering Committee and Interagency Task Force development, public involvement, and development of draft and final HCP. Ongoing development of restoration plans for acquired parcels and oversight of HCP compliance tasks.

Naval Air Station, Boca Chica Beach, Monroe County- Permitting assistance and project oversight for the Naval Air Station on environmental permitting requirements and listed species issues for Nature-Based Solutions to protect Naval assets which could potentially include living shorelines, artificial reefs and / or barrier islands.

Starship and Pirate Water Taxi, Hillsborough County - Oversight and permitting assistance for federal agency consultation regarding the Florida manatee in support of environmental permitting requirements for the US Army Corps of Engineers (USACE), the Environmental Protection Commission of Hillsborough County (EPCHC) and Port Tampa Bay (PTB) for several water taxi mooring facilities. Obtained all agency permits including Letters of Permission from the USACE, Exemption Verification Letters from the EPCHC, and Minor Work Permits from PTB.

SR 60 Multi-Use Recreational Trail for Courtney Campbell Bridge – Design/Build Environmental Permitting, FDOT, District 7, Project Manager Ecological Services – Oversee and conduct field reviews, protected species surveys, wetland delineations, permitting tasks, agency coordination, permit modifications and construction monitoring activities for Design/Build and design segments. Included USFWS and NMFS coordination on potential impacts to swimming sea turtles, small toothed sawfish, manatees, nesting shorebird habitats, and benthic resources.

SR A1A Resurfacing from Osprey Drive (MP 6.484) to North of Mariners Drive (MP 10.282), FDOT District 5, Flagler County - Project oversight, coordination and development of Permit Determination Memo.

Cross Bar & Al Bar Ecosystem Management Plan (EMP), Pinellas County Utilities, Pasco County – Preparation of EMP for 12,000-acre wellfield site, targeting native uplands, wetlands and protected species habitats. Oversight of restoration of Florida scrub-jay habitats, development of gopher tortoise recipient sites, and preparation of grant applications for longleaf pine and sandhill community restoration.

County-wide HCP for Florida Scrub-jay, St. Lucie County, FL – Project Manager for county-wide data collection, surveys, USFWS coordination, mitigation and habitat restoration plans, and HCP/ITP coordination and document preparation.

Duette & Headwaters Preserve Wetland Restoration Study, Manatee County Division of Natural Resources, FL - Design and implementation of monitoring program to assess restoration success on hydrologically restored wetland systems throughout 24,000 acre preserve.

FDOT Wetland Mitigation Program, SWFWMD, Hillsborough, Polk, Pinellas, Manatee Counties, FL – Develop and implement baseline data collection methods, permit compliance monitoring, and remedial planting and maintenance plans for wetland mitigation sites on public lands throughout the District.

Titusville to Edgewater Trail PD&E Study, FDOT District 5, - Assessment of environmental impacts associated with 30+ miles of proposed recreational trail within the Merritt Island National Wildlife Refuge. Includes potential impact to occupied Florida scrub-jay habitat, freshwater and estuarine wetlands, and a variety of protected species. Scheduled all field work and was responsible for QA/QC of all deliverables. Participated in Public Workshops.



Rebecca Barkdoll Senior Environmental Scientist

Education:

BS, Marine Science, Eckerd College 2008

Years of Experience: 15

Certifications and Training:

- Authorized Gopher Tortoise Agent (GTA-16-00077)
- Tampa Bay Association of Environmental Professionals
- GIS Applications for Natural Resource Management, University of Florida
- FDEP Qualified Stormwater Management Inspector
- SWFWMD Wetland Assessment Procedure
- Florida Association of Environmental Soil Scientists

Rebecca Barkdoll has a degree in marine biology and works in both terrestrial and aquatic environments. Rebecca is an FWC Authorized Gopher Tortoise Agent (GTA) and a qualified Protected Species Observer (PSO). She brings significant experience with permit compliance monitoring and reporting on a wide range of projects. Rebecca's field experience includes benthic resource surveys (seagrasses, oysters, corals), monitoring sensitive estuarine environment during construction activities marine invertebrate inventories in Tampa Bay, estuarine environment profiles, wetland jurisdictional determinations, and listed species surveys and monitoring. She has designed and managed monitoring programs, planting plans, and long-term management for restoration and mitigation projects.

As an FWC authorized GTA, Ms. Barkdoll conducts burrow surveys, permitting, excavations, and relocations of tortoises and commensal species on both small- and large-scale projects. Additional protected species experience includes burrowing owl surveys and translocation tasks, aerial sandhill crane nest surveys, bald eagle nest monitoring, nighttime anuran surveys, nighttime white-tailed deer counts, Sherman live-trapping surveys for Florida mouse, southeastern American kestrel nest surveys, eastern indigo snake surveys, and Florida scrub-jay nest and territory surveys, and acclimation.

Ms. Barkdoll is fluent in ArcMap and provides maps and environmental documents for a wide variety of transportation, mining, utilities, and mitigation projects and proposals. She is proficient at creating geospatial data layers based on field assessments and preparing maps depicting background data and baseline conditions, as well as habitat restoration, wetland mitigation, and management plans.

Relevant Project Experience:

Benthic Survey and Wetland Delineation, Naval Air Station Key West, Monroe County – In-water survey to record locations, species, and density of benthic resources including seagrass, coral, macrophytic algae, and sponges. Additional benthic species and pelagic species were recorded when encountered. Produced map documents and prepared a report documenting survey results. Conducted a wetland delineation along Boca Chica Beach and produced maps depicting the wetland boundary.

Benthic Survey, P-021 Lighterage Wharf and Lift Launch Pier MCSF Blount Island Command, Duval County – In-water survey and shoreline assessment to record presence, condition, and quantity of benthic resources in support of obtaining state and federal environmental permits for construction of berthing, launch, and recovery facilities to support the Marine Corps Support Facility (MCSF) Blount Island Command.

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Benthic Surveys, Manatee, Sarasota, Collier, and Miami-Dade Counties – In-water surveys and shoreline assessments to record presence, condition, and quantity of benthic resources along an underwater cable. Surveys involved wading and snorkeling, use of Braun-Blanquet method to quantify seagrasses present, data collection, and report preparation, including map documents.

Protected Species Observer, In-Water Work, Manatee County – Onsite coordination with crews to explain permit conditions, locations of resources, and environmentally sensitive areas to avoid during removal of an existing subaqueous cable. Observation of in-water work, monitoring for manatees, sea turtles, or other protected species.

Florida Gulf Coast Wetland Mitigation Bank, Levy County – Conducted surveys documenting conditions including vegetation communities and habitat types, vegetation monitoring, and quarterly inspections for this ~1600-acre mitigation bank. Produced maps and report documents.

National Coastal Condition Assessment, Kaua'i County, Hawai'i – Field assessments in support of the National Coastal Condition Assessment (NCCA) program for the island of Kaua'i, Hawai'i. Visual assessments were made of shoreline land use, on-water traffic, general water conditions, and bottom type in estuaries around the coast. Column water quality data collected included temperature, salinity, dissolved oxygen, and light absorption. Sediment samples were also collected.

Seismic Survey Inspection in Big Cypress National Preserve, Collier County – Walking survey in Big Cypress National Preserve to assess and document conditions following reclamation efforts by Burnett Oil Co following ecological impacts created by the Nobles Grade 3-D seismic survey through dwarf cypress and marl prairie communities. Assist in report production.

Duette Preserve and Headwaters Preserve Restoration Analysis, Manatee County – Designed and implemented multi-faceted analysis of isolated wetlands hydrologically restored via ditch block installation using Remote Sensing Spectral Analysis, Wetland Assessment Procedure (WAP), and qualitative monitoring. Collected data annually and compared to baseline data to identify changes in vegetation structure and composition, habitat quality, and wildlife utilization. Ms. Barkdoll coordinated with a data analyst and Manatee County Environmental Program Manager to interpret hyperspectral imagery and create figures depicting the data. She developed and delivered a presentation to the Agency on Bay Management (Tampa Bay Regional Planning Council) summarizing analysis and results.

Headwaters Preserve Drawdown Analysis, Manatee County – Designed and implemented monitoring program documenting potential drawdown in wetlands adjacent to mining activities. Utilized Wetland Assessment Procedure (WAP), qualitative field assessments, Remote Sensing Spectral Analysis, helicopter surveys for sandhill crane nests, nighttime anuran listening surveys, wading bird surveys, and incidental wildlife observations. Compiled an annual report including photo documentation.

Amelia Island HCP, City of Fernandina Beach, Nassau County – Worked on a team developing a draft HCP for the City of Fernandina Beach under a Section 6 Planning Grant from the FWC. Conducted research, produced maps, participated in stakeholder interviews, coordinated with the FWC and the USFWS, and prepared documents. Identified species and activities to be covered by the HCP, researched current regulations within city limits, and reviewed existing HCPs covering similar species and activities. Presented options and recommendations to the City and implemented feedback into maps and documents.

Gopher Tortoise Burrow Excavations, Gilchrist and Columbia Counties – Led a team directing gopher tortoise burrow excavations across two project areas set to developed into a 580-acre solar site and a 630-acre solar power plant. Surveyed for gopher tortoise burrows not documented by the previous survey and recorded location and status of each new burrow identified. Directed backhoe operator and assistant



J. Lee Cook, PWS
Senior Ecologist

Education:

MS, Biology, Tennessee
Technological University, 1992
BS, Biology, Virginia Tech, 1990

Years of Experience: 26

Certifications and Training:

- Society of Wetland
Scientists Certified as a
Professional Wetland
Scientist (PWS 0001107),
1997, renewed 2023
- Florida Association of
Environmental Soil
Scientists, Affiliate Member
- Florida Native Plant Society

Ms. Jacqueline Lee Cook is a Senior Ecologist for Quest Ecology Inc. and has over 26 years of experience in ecosystem analysis, environmental permitting, wetland delineation, and wildlife studies. She specializes in environmental permitting and natural resource management. She works with individuals, private development companies, utilities and municipalities to navigate complex local, state and federal regulations and environmental permitting requirements associated with wetlands and listed species. She has years of field experience performing wetland jurisdictional determinations, hydric soil identifications, ecosystem analyses, wetland mitigation design, mitigation banking and wildlife studies.

Prior to her employment at Quest Ecology, Ms. Cook worked as a Wetlands Biologist in the Regulatory Program of the U.S. Army Corps of Engineers for nine years. Her main duties consisted of conducting jurisdictional determinations over Waters of the U.S. as part of the regulatory review process of Department of the Army (DA) permit applications. Ms. Cook reviewed permit applications for large development projects and mining operations, including mitigation design, and enforcement actions. Ms. Cook was also instrumental in developing the field review portion of the Corps of Engineers Wetlands Jurisdictional Certification Program. She frequently provided wetland delineation training to State and Federal employees and members of the private sector.

Relevant Project Experience:

Naval Air Station, Boca Chica Beach, Monroe County- Performed wetland delineations, benthic resource surveys and provided permitting assistance for Moffatt & Nichol, on behalf of the Naval Air Station to navigate environmental permitting requirements and listed species issues for Nature-Based Solutions to protect Naval assets which could potentially include living shorelines, artificial reefs and / or barrier islands.

Key Vista Nature Park, Pasco County- - Attended on-site agency pre-application meetings and prepared permit application guidance in support of obtaining state and federal permits for a proposed living shoreline and proposed seagrass impacts and mitigation.

Starship and Pirate Water Taxi, Hillsborough County - Conducted agency site reviews and provided information for federal agency consultation regarding the Florida manatee in support of environmental permitting requirements for the US Army Corps of Engineers (USACE), the Environmental Protection Commission of Hillsborough County (EPCHC) and Port Tampa Bay (PTB) for several water taxi mooring facilities. Obtained all agency permits including Letters of Permission from the USACE, Exemption Verification Letters from the EPCHC, and Minor Work Permits from PTB.

City of Miami Beach, Emergency Force Main, Miami-Dade County - Prepared, assembled and submitted FDEP and USACE permit applications on behalf for the City of Miami Beach for an emergency force main installation via directional bore under portions of Biscayne Bay.

Pier 111 Repairs-Naval Station Mayport, Duval County - Attended agency pre-application meetings, and prepared applications in support of obtaining state and federal environmental permits associated with repairs to the existing dolphin fender system and installation of a new catwalk.

Pier 1455 Repairs-Naval Station Mayport, Duval County - Conducted wetland jurisdictional determinations, attended agency pre-application meetings, and prepared applications in support of obtaining state and federal environmental permits associated with repairs to the pier and trestle and mooring and fender system repairs.

P-021 Lighterage Wharf and Lift Launch Pier MCSF Blount Island Command, Duval County - Conducted wetland jurisdictional determinations, attended agency pre-application meetings, and prepared applications in support of obtaining state and federal environmental permits associated with construction of berthing, launch, and recovery facilities to support the Marine Corps Support Facility (MCSF) Blount Island Command.

Magnetic Silencing Facility (MSF) Naval Submarine Base Kings Bay, Camden County, GA - Conducted wetland jurisdictional determinations and agency site reviews, attended agency pre-application meetings, and prepared applications in support of obtaining local, state and federal environmental permits associated with repairs to the existing Magnetic Silencing Facility.

P-617 Transit Protection Program Facility Naval Submarine Base Kings Bay, Camden County, GA - Conducted wetland jurisdictional determinations and agency site reviews, attended agency pre-application meetings, and prepared applications in support of obtaining local, state and federal environmental permits associated with construction of a General Purpose Berthing Pier, Small Craft Berthing Pier, Access Trestle and Breakwater.

Florida Power and Light, Various Florida Counties - Prepared, assembled and submitted FDEP and USACE, general permit applications on behalf for Florida Power and Light Company to upgrade existing electrical conduits by directional bore as part of routine utility maintenance. Performed pre and post construction compliance to ensure compliance with all specific, general, and regional permit conditions. Includes wetland delineations and benthic resource surveys for subaqueous cable installation and removal.

Bartlett Park Lake Improvements, SWFWMD, Pinellas County - Provided regulatory oversight prior to issuance of a Federal permit authorizing wetland impacts for the purpose of restoring a tidal marsh on a tributary to Tampa Bay and construction of two artificial reefs.

Tampa Port Authority Maintenance Dredging Project, Hillsborough County - Provided regulatory oversight, including endangered species consultation, prior to issuance of a Federal permit authorizing the dredging of 500,000 cubic yards of materials over ten years from 85 berths in Port of Tampa, Port Sutton, and Big Bend in Hillsborough Bay.



Christopher Keene Ecologist

Education:

BS, Berry College, 2013,
Environmental Science; Biology
Concentration

Years of Experience: 9

Certifications and Training:

- Mining Safety Hazard Assessment Training (MSHA)
- FWC Authorized Gopher Tortoise Agent: # GTA-19-00096A
- Wildland Firefighter Training
Fire in the Field FIF100
*S-130 Basic Wildland Firefighter
*S-180 Human Factors on the Fire line
*S-190 Introduction to Fire Behavior
*S-110 Orientation to Fire Suppression
- FDACS Commercial Applicator's License: # CM24143
*Aquatic Pest Control
*Natural Areas Weed Management
- FDEP Qualified Stormwater Inspector # 36002
- SWFWMD Wetland Assessment Procedure Training

Christopher Keene, Ecologist, earned his degree in Environmental Science with a concentration in Biology from Berry College in Rome, Georgia. Chris has more than 9 years of professional environmental experience conducting wildlife, vegetation, and general ecological field surveys, site assessments, and management activities in a variety of habitats.

Chris is involved in all aspects of habitat management and restoration to benefit a variety of species and habitats. He is highly experienced in every aspect of vegetation sampling including the development and implementation of monitoring methods, transect design, transect installation, and field data collection. He is skilled with field data collection involving vegetation composition and cover, wildlife utilization, benthic resource and submerged aquatic vegetation evaluation, nuisance and invasive species cover, and the overall assessment of ecological function and success. He is also experienced in wildlife surveys for species including gopher tortoises, burrowing owls, Florida scrub-jays, white-tailed deer, Florida sandhill cranes, southeastern American kestrels, crested caracaras, and more. He routinely conducts GIS analysis, prepares maps, and creates reports with detailed data analysis. He conducts and oversees habitat restoration and maintenance through the application of herbicides, the mechanical removal of undesirable vegetation, and by serving as a burn crew member for prescribed fires. His experience also includes managing permit compliance for mitigation banks, commercial and government construction projects, private entities, and utilities.

Additionally, Chris has experience ensuring that project goals are met by scheduling, directing, overseeing, and managing equipment operators, planting and herbicide crews, and land managers. He frequently directs permit compliance and construction oversight activities for a variety of projects involving federal, state, and local permits, and has assisted with Construction Engineering and Inspection (CEI) tasks for large scale roadway projects. He is proficient in the use of ArcMap and creates maps for proposals, surveys, permit applications, and other projects by utilizing database searches, historical and current aerial imagery, available data layers, and data collected in the field.

Chris is an FWC Authorized Gopher Tortoise Agent, FDACS licensed Commercial Applicator with certifications in aquatic and natural areas, FDEP Certified Stormwater Management Inspector, is certified as a Wildlands Fire Fighter and serves as a prescribed burn crew member, is trained in the use of SWFWMD's Wetland Assessment Procedure and has been MSHA safety certified.

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Relevant Project Experience:

Davis Island Mooring Field and Dinghy Dock Permitting and Seagrass Survey, City of Tampa, Hillsborough County, FL – Conduct site reviews and submerged aquatic vegetation surveys for this project site in Hillsborough Bay to record presence, condition, and quantity of benthic resources; Create benthic resources report identifying areas of seagrass utilizing the Braun-Blanquet method to quantify seagrasses present and to guide project design. Additional work included creating maps depicting transect location, bathymetry, and resources observed. Conduct pre-application meetings with USACE and FDEP, Port Tampa Bay, Hillsborough County EPC, engineers, and City of Tampa.

Sunseeker Resort & Marina Permitting and Seagrass Survey, Moffatt and Nichol, Charlotte County, FL – Conduct initial site reviews and submerged aquatic vegetation surveys for this project site in Charlotte Harbor Aquatic Preserve at the mouth of the Peace River; Create benthic resources report identifying areas of seagrass utilizing the Braun-Blanquet method to quantify seagrasses present and to guide project design. Additional work included creating maps depicting transect location, bathymetry, and resources observed. Conduct field reviews and pre-application meetings with USACE, USFWS, NOAA, NMFS, and FDEP, Southwest Florida Water Management District, and engineers to discuss project impacts to seagrasses, manatees, and smalltooth sawfish.

Blount Island P-021 Lighterage and Small Craft Facility Benthic Resources Survey, MCSF Blount Island Command, Jacksonville, FL – Conduct benthic resources survey within the St. John's River in support of obtaining state and federal environmental permits associated with construction of berthing, launch, and recovery facilities to support the Marine Corps Support Facility (MCSF) Blount Island Command. Create report of findings including detailed GIS maps. Project coordination with base personnel.

Boca Chica Shoreline Restoration Benthic Survey, Naval Air Station Key West, Monroe County, FL – Conduct benthic resources survey to record locations, species, and densities of benthic resources including seagrass, coral, macrophytic algae, and sponges. Aquatic fauna was also recorded when observed. The survey was conducted in support of project design modifications to evaluate impact avoidance potentials. Produced maps, prepared survey documents, and data sheets.

Carlouel Yacht Club Marina Expansion Benthic Resources Survey, TranSystems, Clearwater, FL – Conduct benthic resources survey within the three-acre project area of Clearwater Harbor in support of obtaining applicable environmental permits associated with construction of additional docks at Carlouel Yacht Club. Create a report of findings including detailed GIS maps. Project coordination with yacht club Commodore and TranSystems engineers.

Capri Circle Dock Modifications, TranSystems, Treasure Island, FL – Conduct benthic resources survey within a residential channel connecting Boca Ciega Bay and the waters of the Gulf of Mexico in support of potential environmental permit requirements. Seagrasses including manatee grass (*Syringodium filiforme*), shoal grass (*Halodule wrightii*), and turtle grass (*Thalassia testudinum*) were all documented along with various macrophytic algae and corals within the 0.25-acre project area. Create report of findings including detailed GIS maps.

Boarshead Ranch Mitigation Bank, Pasco County, FL – Lead Field Ecologist for the Boarshead Ranch Mitigation Bank (BHRMB) located adjacent to the Withlacoochee River in Pasco County. Evaluated more than 40 individual Assessment Areas to direct the implementation of habitat enhancement, restoration,

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Education

BS, Civil Engineering, West Virginia University

Years of Experience

34

Licenses

- Professional Engineer - FL # 57233
- Professional Engineer - NC, MI
- State of Florida Neutral Evaluator

Mark K. Hardy, PE

Geotechnical Engineer

Mark Hardy has 33 years of experience in geotechnical engineering and construction materials testing in the Midwest and Southeastern United States. This experience includes low to medium-rise residential, office, commercial, and medical buildings, industrial sites, due-diligence and pavement surveys, utility piping and structures, large land tract development, subdivisions, right-of-way studies, bridges, and numerous other projects in both the public and private sectors. Mark’s specialized work experience includes performing over 1,400 forensic studies with the majority performed in Hillsborough, Pasco, Hernando, Pinellas, and Broward Counties for residential and commercial buildings. These studies included site reconnaissance and inspection of the existing conditions, preparing a subsurface exploration and laboratory testing program, and preparing recommendations based on the findings for organic, plastic clays, loose soils, karst activity etc., and preparing remedial recommendations. In addition, he has specialized in geotechnical laboratory tests, report preparation, field engineering, coordination of drill rig activities, and monitoring well installation.

Mark is proficient in interpretation of soil characteristics and making foundation design recommendations. Mark has served in various capacities in the civil and geotechnical engineering industries such as: staff engineer, department manager, construction/technical manager and branch manager. In these capacities he has analyzed and utilized a variety of innovative ground improvement techniques to offer options to clients; prepared and issued geotechnical, environmental, and materials testing analyses reports and recommendations; managed numerous large projects and budgets; applied civil engineering principles in soil explorations, monitoring well installations, and coordination of drill rigs and sampling activities. In addition, Mark is a Neutral Evaluator for the State of Florida.

PROJECT EXPERIENCE

- | | |
|--|---|
| ▪ FDOT District 7 Districtwide Contract C-9A05
FDOT District 7, Florida | Polk County, Florida |
| ▪ FDOT District 7 Districtwide Contract C-8182
FDOT District 7, Florida | ▪ FDOT US 27
Polk County, Florida |
| ▪ FDOT Turnpike Statewide Materials and Geotechnical Services Contract C9K31
Statewide, Florida | ▪ FDOT I-275 Reconstruction (LINKS Hillsborough County, Florida) |
| ▪ FDOT Turnpike Statewide Materials and Geotechnical Services Contract C8W64
Statewide, Florida | ▪ FDOT US 19 over Cross Florida Barge Canal Bridge Replacement D/B
Citrus County, Florida |
| ▪ FDOT Suncoast Parkway Sinkhole Investigation
Hernando County, Florida | ▪ Lee Roy Selmon Crosstown Reverse Elevated Lanes, Post-Collapse Hillsborough County, Florida |
| ▪ FDOT I-75/SR 80 Interchange
Lee County, Florida | ▪ Lee Roy Selmon Crosstown Expressway Deck Replacement Hillsborough County, Florida |
| ▪ FDOT CR 664 | ▪ FDOT Port of Miami Tunnel D/B
Miami-Dade County, Florida |



Education

PhD, Bridge and Tunnel Structure Engineering, Beijing Jiatong University, Beijing, China

MS, Geotechnical Engineering, University of Toledo, Toledo, Ohio

MS, Geotechnical Engineering, China Academy of Railway Science, Beijing, China

BS, Railway Engineering, Beijing Jiatong University, Beijing, China

Years of Experience

30+

Licenses

- Professional Engineer - FL #57219
- Professional Engineer - OH

Certifications

- Applied Groundwater Flow & Contaminant Transport Modeling
- Pile Driving Analyzer (PAK), PDA-W, and CAPWAP

Guoan Cao, PhD, PE
Geotechnical Engineer

Dr. Guoan Cao has over 30 years of experience as both an engineer and researcher and has worked on numerous projects. He has abundant experience on shallow and deep foundation design, retaining wall system design, slope and embankment stability analysis, tunnel and small bridge design, landslide analysis and consolidation, and soil engineering characteristics. Dr. Cao also has extensive experience in groundwater flow modeling and drainage design, wave equation analysis and structural earthquake analysis. In addition, he has extraordinary expertise in the FB-Pier and MODFLOW software programs. These projects included high-rise building foundations, tower building foundations, fish pier foundations, deck foundations, bridge foundations and an entire pier analysis (Pile-Column-Cap), groundwater modeling, stormwater pond design, and contaminant transport.

His design and analysis capability includes deep foundation design (driven pile, drilled shaft, auger cast pile, and timber pile); shallow foundation design; retaining wall design (soldier pile wall, sheet pile wall, seawall, noise wall, MSE wall, gravity wall and tieback design); slope and embankment stability analysis; overall analysis of bridge pile-pier-caps; tunnel and small bridge design; soil engineering characteristics; roadway soil surveys; groundwater flow modeling and drainage design; landslide analysis and consolidation, and sinkhole evaluation.

PROJECT EXPERIENCE

US 98 Bypass Design Build

Pasco County, FL

High Mast Lighting Improvements

Hillsborough County; Pinellas County, FL

Design of I-75 Widening from Golden Gate Parkway to Colonial Boulevard

Lee County; Collier County, FL

Sawgrass Expressway from Atlantic Boulevard to Coral Ridge Drive

Broward County, FL

Ernest Lyons Bridge Replacement Design Build (SR A1A)

Martin County, FL

CR 581 (Bruce B. Downs Boulevard) Widening - Bearss Avenue to Palm Springs Boulevard

Hillsborough County, FL

CR 581 (Bruce B. Downs Boulevard) Widening from Palm Springs Boulevard to South of Pebble Creek Drive

Hillsborough County, FL

Ringling Bridge Replacement Design Build (SR 789)

Sarasota County, FL

Ernie Caldwell Boulevard

Polk County, FL

SR 682 (Pinellas Bayway) from West Toll Plaza to West of SR 679 - Bayway Bridge Replacement

Pinellas County, FL

Clearwater Memorial Causeway Bridge

Clearwater, FL

I-4 Design Build Section 2 Interstate 4 (SR 400) from East of US 98 to East of CR 557

Polk County, FL

I-4 Section 3 Design Build from East of CR 557 to the Osceola County Line

Polk County, FL

Foundation Design Analyses - US 19 Bridge over Drew Street

Pinellas County, FL



Education

MS, Civil Engineering,
Georgia Institute of
Technology

BS, Civil Engineering,
Georgia Institute of
Technology

Years of Experience

48

Licenses

- Professional Engineer, FL, AL, MS, LA, GA, SC, TX, TN, and Puerto Rico
- Building Code Administrator, FL - BU2121
- Plans Examiner, FL - PX4637
- Standard Inspector, FL - BN8183

Certifications

- Certified Structural Masonry Inspector
- Nuclear Density Gauge Operation & Safety

Publications

- Hydraulic Fracturing of Nondispersive Clay Dam", Co-authored with Dr. Dan Brown, P.E.; for American Society of Civil Engineers National Convention, 1986.
- Groundwater Protection for Sanitary Landfills in the Saturated Zone," Co-authored with Dr. Gordon P. Boutwell, Jr., P.E.; for National Solid Waste Management Association, 1986.

R. Kenneth Derick, MS, CBO, PE

Senior Engineer

Ken holds an advanced degree in civil engineering and has more than 48 years of experience performing and managing complex engineering work for geotechnical, building construction, and environmental projects in the eastern, southeastern, and Gulf South regions of the United States. He has performed structural, general civil, geotechnical, environmental, and building construction inspection and testing services for thousands of projects. As the Engineer of Record (EOR) for the UES, Ken provides engineering peer review, project administration, and environmental engineering services on a daily basis for technically challenging projects. As Senior Vice President and Central Florida Regional Manager, he is responsible for the performance, staffing, and administration of all engineering, environmental, and construction personnel in the six county region.

PROJECT EXPERIENCE

SR 46/SR 42 Road Repair

Volusia/Polk County Line, Florida

A new lane addition for FDOT was settling and creating rutting. Mr. Derick was the Engineer of Record (EOR) for FDOT in solving the root cause of new overlay rutting. The problem was determined to be poor compaction and lift thickness control at the interface of old and new pavement.

**Commercial Shopping Center,
Florida Avenue & Brannen Road**

Lakeland, Polk County, Florida

This project involved a strip shopping center in Lakeland, Florida. The site soils consisted of reclaimed land which possessed highly compressible clay soils to a depth of eight to 15-feet below grade. Mr. Derick provided recommendations for the development including deep foundations, surcharging in combination with post-tensioned slab foundation or "waffle" slab, and soil-mixing with cement.

Alafia Lakes Development, Mulberry

Polk County, Florida

Mr. Derick was the Engineer of Record (EOR) and provided alternatives to develop 235 acres of reclaimed land on SR 37, just north of SR 60 in Mulberry, Florida. The former phosphate mine site was explored with 20-foot deep borings, sufficient in depth to define the mining depth on the site. Areas where the mining left compressible soils were delineated and recommendations were provided to allow the construction of the small residential homes.

**Imperial Lakes Manufactured Home
Project**

Mulberry, Polk County, Florida

Mr. Derick was engaged in the assessment of the settlement potential of this site, which had been developed five years earlier. The soil was settling away from underneath some roadways under the weight of fill placed over the former phosphate mine. Mr. Derick provided estimates of the total settlement to be anticipated and the time it would take for the remaining settlement to occur. Recommendations for the repair of facilities and leveling of the homes were provided.



Education

BS, Civil Engineering,
Florida Gulf Coast
University

Years of Experience

9

Licenses

- Professional Engineer -
FL #85319

Certifications

- ACI Concrete
Construction
Specialty Inspector
- ACI Concrete Field
Testing Technician –
Level 1
- Portable Nuclear Gauge
Ues AND Safety Training
- OSHA 10-Hour

Adam Dornacker, PE

Geotechnical Department Manager/Professional Engineer

Mr. Dornacker is a registered Professional Engineer with nine years of experience. His expertise includes foundation design analysis and recommendations, foundation installation monitoring, and field and laboratory testing of soil and concrete. He is responsible for managing and coordinating all work performed by UES' Fort Myers Geotechnical Department. He prepares and reviews geotechnical and materials engineering inspection reports, coordinates and supervises engineering staff and drilling personnel. He also conducts foundation observations and foundation design reviews, geotechnical instrumentation monitoring, and reviews and signs materials testing reports.

PROJECT EXPERIENCE

Caloosahatchee Connect

Fort Myers/Cape Coral, FL

This project will connect a reclaimed water transmission pipeline from Fort Myers to Cape Coral just south of the Midpoint Bridge. The transmission pipeline will be installed underneath the Caloosahatchee River using large-scale directional drilling operations. The 7,600-foot reclaimed water transmission main will be the largest, longest sub aqueous horizontal directional drill project using fusible polyvinyl chloride pipe (FPVC) in the United States. Mr. Dornacker was the lead Geotechnical Engineer, responsible for coordinating drilling operations, reviewing of soil samples and lab testing (including direct shear and consolidation), and producing the geotechnical report and recommendations. Geotechnical borings were completed in the Caloosahatchee River using a truck-mounted drilling rig atop a push barge with specially designed platforms; borings were performed to depths exceeding 120 feet below the water line.

US41 Utility Replacement Project

Fort Myers, FL

This project will relocate city utilities along US 41 between Winkler and Victoria Avenues (for FDOT's roadway improvement for the US 41 corridor). UES conducted geotechnical explorations with soil survey borings along US 41 to depths of 10 feet below grade at

approximately 300 feet centers, four standard penetration test (SPT) borings to depths of 25 feet below grade for proposed jack and bore locations (and along the proposed directional drill areas) and 25 cores of existing asphalt located at 1,000-foot centers for each outside lane of US 41, where the replacement utilities are located. Mr. Dornacker was Geotechnical Project Manager and assisted in preparing the geotechnical report.

HHD Rehabilitation Structure S-209 (IP-2) & S-291 (IP-3)

Glades County, FL

The Herbert Hoover Dike Rehabilitation Structure Replacements project includes demolition and removal of the existing Culvert IP-2 & IP-3 off of the Indian Prairie Canal in Glades County and the construction of new water control structures downstream of the existing structure locations. Mr. Dornacker performed Pre & Post-Construction Structural Conditioning Surveys of all adjacent structures, provided Vibration Monitoring Services, and performed CCSI pre-placement and placement inspections of all concrete structures.



Education

BS, Civil Engineering,
Florida Gulf Coast
University

Years of Experience

9

**Licenses &
Certifications**

- Professional Engineer, FL #86480
- ACI Aggregate Base Testing Technician
- ACI Aggregate Testing Technician Level 1
- ACI Concrete Strength Testing Technician
- ACI Masonry Lab Testing Technician
- CTQP QC Manager
- CTQP LBR Technician
- CTQP Asphalt Plant Level 1
- CTQP Aggregate Base Testing Technician
- CTQP Aggregate Testing Technician Level 1
- CTQP Concrete Strength Testing Technician
- CTQP Concrete Lab Technician
- CTQP Qualified Sampler

Liaquat “Lee” Khan, PE

Materials Testing Laboratory Manager

Mr. Khan is a professional engineer with USE whose responsibilities include projects in geotechnical engineering, construction materials testing, building and threshold inspections, as well as environmental consulting. During his time with GFA, Lee’s experience includes foundation design analysis and recommendations, deep foundation installation and monitoring, concrete construction special inspections, as well as field and laboratory testing of soil, aggregate, concrete, and asphalt. Mr. Khan’s involvement in U.S. Army Corps of Engineers, FDOT, commercial, and residential projects has helped him gain the knowledge to now oversee and manage the local materials testing specialty laboratory.

Mr. Kahn manages our Ft. Myers & Naples Labs as well as supporting various UES labs in maintaining their U.S. Army Corps Lab validations, FDOT accreditation, and CMEC accreditation.

PROJECT EXPERIENCE

Mississippi Beach & Dune Rehabilitation Project

Hancock & Harrison Counties, MS

As Lab Manager, Mr. Khan’s responsibilities consisted of supervising laboratory testing for this U.S. Army Corps project to conduct geotechnical sediment data processing, interpretation, and final reporting for a near shore borrow area located in the Gulf of Mexico, approximately 1 mile offshore.

Vernia Solar & Ambersweet

Indian River County, FL

Florida Power and Light (FPL) Vernia Solar Project Geotechnical Site Investigation work for the installation of a 74.5 MW solar PV facility and an electrical substation. This investigation includes the requirements for performing a Phase 1 Subsurface Investigation and a Phase 2 Pile Load Testing. Mr. Khan performed Soil Corrosion Series & thermal resistivity lab testing.

Collier County Bridge Replacement Packages A, B, & C

Immokalee, FL

As QC Manager, Mr. Khan’s responsibilities consisted of preparing each project’s QC plan, maintaining open communication, scheduling efforts with the Contractor

and VT, and ensure laboratory testing was performed with accuracy and in a timely manner to exceed expectations for turnaround time. Mr. Khan was responsible for reviewing and signing QC reports and participate in bi-weekly progress meetings.

- Attend bi-weekly progress meetings as QC Manager.
- Maintain open communication with field, lab, and client to meet testing turnaround goals.
- Performed lab testing (i.e. concrete compressive strength, modified & standard proctors, and soil classification tests, etc.) for various construction materials.
- Reviewed and signed lab test reports for submittal.

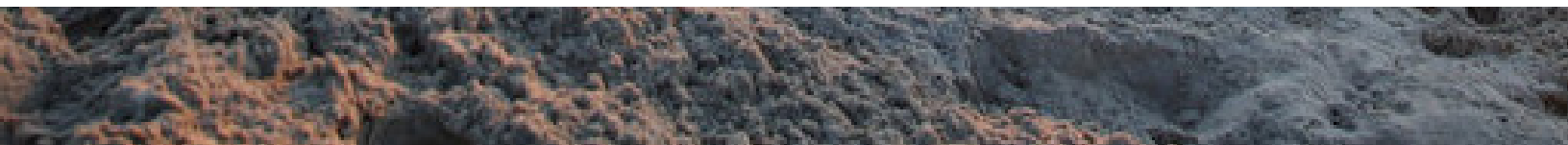
Hurricane Ian Emergency Response Sanibel Causeway Repairs

Lee County, FL

Performed direct shear testing on soil & base rock material intended to be used for mechanically stabilized earth (MSE) wall soil reinforcement. Mr. Khan also reviewed laboratory reports (direct shear & corrosion series) in comparison with FDOT Standard Specifications & sign engineering documentation to approve the material for it’s intended



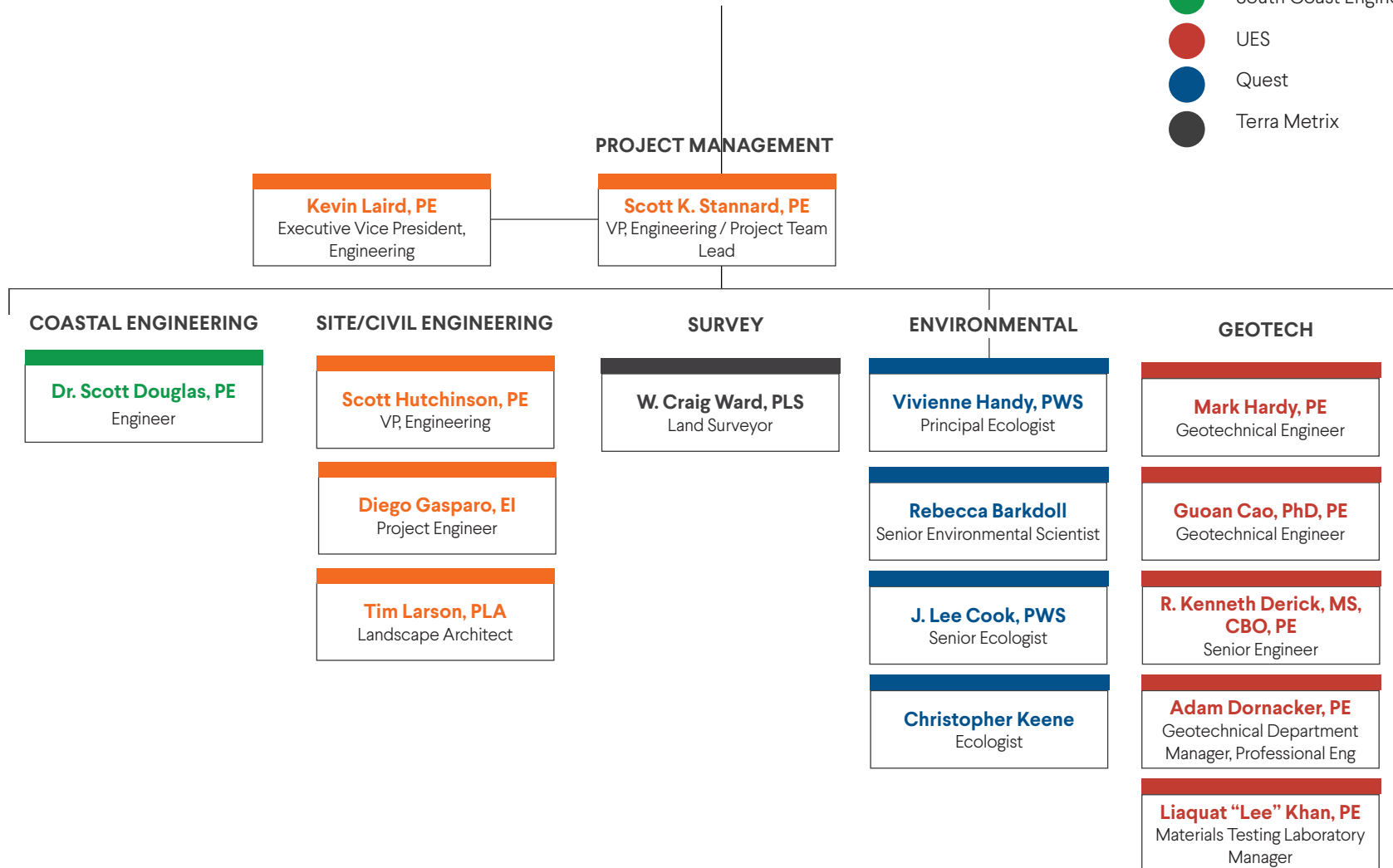
Section 2 Proposed Management Plan



Organizational Chart



- Goodwyn Mills Cawood
- South Coast Engineering
- UES
- Quest
- Terra Metrix



SECTION 2 Proposed Management Plan

Scott K. Stannard, PE, the project manager is in charge of overseeing each phase of the beach renourishment and shoreline stabilization project, he will play a crucial role in ensuring the successful execution of the plan. Below is a breakdown of how the Scott will manage each phase:

1. Design Phase:

Responsibilities:

- Oversee the development of preliminary and final designs.
- Coordinate with Coastal Engineers, Civil Engineers, and other specialists involved in the design.
- Ensure the integration of mitigation plans.
- Supervise the process of finding offshore and/or upland borrow sources.
- Manage environmental monitoring coordination.
- Facilitate the preparation of bid documents.
- Assist in the County's bidding process.

Tasks:

- Regularly communicate with the design team to monitor progress and address any issues.
- Conduct regular project status meetings to keep all stakeholders informed.
- Ensure that design elements align with the project objectives and meet regulatory requirements.

2. Construction Phase:

Responsibilities:

- Oversee the implementation of designed plans.
- Coordinate with construction teams and sub-consultants.
- Ensure adherence to project specifications and timelines.
- Address any unforeseen issues or changes during construction.

Tasks:

- Monitor construction progress and quality.
- Collaborate with the construction team to resolve challenges.
- Maintain open communication channels with relevant parties.
- Conduct site visits to ensure on-site activities align with the approved plans.

3. Monitoring Phase:

Responsibilities:

- Oversee post-construction monitoring activities.
- Work closely with environmental consultants to assess project performance.
- Ensure compliance with monitoring requirements set by permitting agencies.

Tasks:

- Review monitoring reports and data.
- Address any issues or concerns identified during the monitoring phase.
- Provide regular updates to the County and other stakeholders.
- Collaborate with the monitoring team to make any necessary adjustments.

General Management Responsibilities Throughout Phases:

Communication:

- Regularly communicate with the entire project team, including subcontractors and consultants.
- Provide updates to the Senior Division Manager-Purchasing, County Administrator, and/or Board of County Commissioners as required.

Risk Management:

- Identify and assess potential risks in each phase.
- Develop and implement risk mitigation strategies.
- Proactively address any issues that may arise.

Quality Control:

- Implement quality control measures to ensure that deliverables meet project standards.
- Conduct regular reviews of work completed by the team.

Budget and Schedule Management:

- Monitor project expenditures and ensure adherence to the budget.
- Keep the project on schedule, identifying and mitigating any delays.

Stakeholder Engagement:

- Engage with stakeholders, including the public and regulatory agencies.
- Attend public meetings and address concerns raised by stakeholders.

Scott will act as a central point of coordination, ensuring that all project phases progress smoothly, issues are addressed promptly, and the project stays on track to achieve its objectives within the specified constraints. Regular reporting, effective communication, and proactive problem-solving will be essential aspects of the his role.

▼ Dauphin Island, Alabama East End Beach Restoration



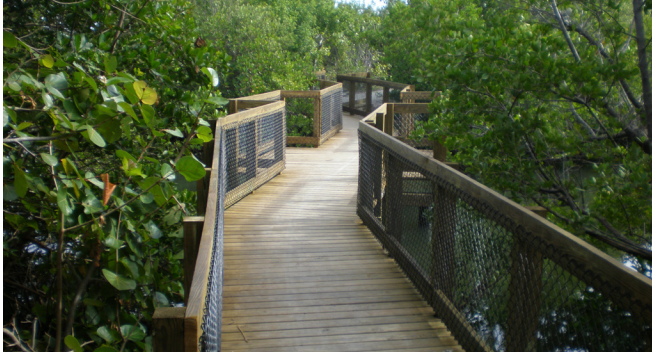


Section 3

Previous Experience of Team Proposed for this Project



SECTION 3 Previous Experience of Team Proposed for this Project



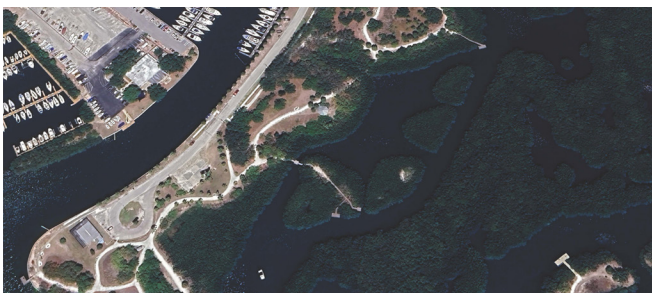
Clam Bayou Nature Park Renovation

LOCATION: City of Gulfport, FL

CLIENT: City of Gulfport, FL
Denis Frain, CMM, Harbormaster
(727) 893-1000
COMPLETED: 2016

Originally constructed in 1993, the City of Gulfport received funds in 2015 to restore the park including the 6 observation piers/deck to their original state. This 13 acre plus park contains approximately 1.5 miles of shell walking trails and 6 waterfront decks with pier systems to allow the public access to Clam Bayou, adjacent to the City of Gulfport Marina. GMC performed physical assessment of all decking, piles, and piers and their appurtenance and prepared a Condition Report of said findings. GMC the prepared Construction Documents to replace and/or repair all six structures. New structures included pile wrapping to save exiting piles from parasitic attack by sea worms and other nuisance species. Renovations included 4 new observation decks out over the water and approximately 250 feet of new, elevated walkways, and 50 plus feet of new dock form non-motorized vehicles. GMC performed water based structure inspections to catalog the condition of existing materials.

GMC also guided the City of Gulfport through the permitting process with the local and state authorities including Pinellas County, FDEP, and SWFWMD as well as taking the project through the bidding and constructions phases to completion. GMC then performed the as-built survey and record drawing preparation and close out process.



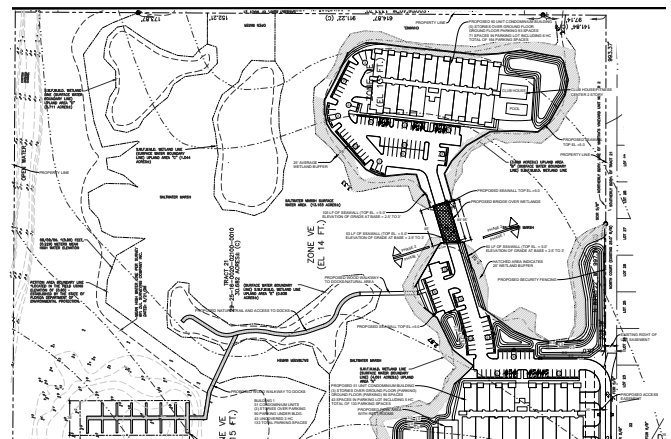
Vekera Bay – Mixed Housing and Private Marina

LOCATION: City of Port Richey, FL

CLIENT: Finland Developer
COMPLETED: 2019

Vekera Bay is a 29 acres mixed housing and marine development located in Port Richey, FL. GMC worked with the private developer and the City of Port Richey to design a mixed use of town homes, condominiums, and single family lots on a water front parcel that contained three main upland areas. The design calls additionally for the installation of a private, 28 slip marina for the exclusive use of the residents, plus recreational amenities like walking trails, tennis courts, and a small park. GMC lead a team of consultants to perform the bathymetric survey and channel mapping for the proposed marina, the establishment of mean high tide and wetland limits, and soil investigation as well as preparing the construction plans for the project. GMC met with all of the reviewing and permitting authorities for the project including USACE, FDEP, SWFWMD and the City of Port Richey.

GMC also coordinated the design of 3 private decorative bridges to connect the varying upland areas and allow for the development to take place.



SECTION 3 Previous Experience of Team Proposed for this Project



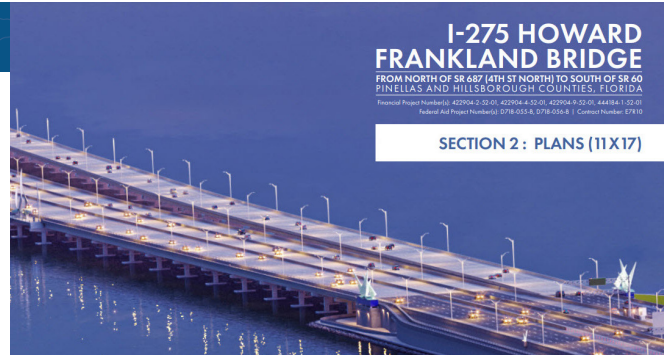
FDOT Project Experience

Howard Frankland Bridge Replacement

LOCATION: Hillsborough and Pinellas County, Florida

CONTACT

Kevin McGlinchey
Business Group Leader
kmcglinchey@walshgroup.com
813-849-7582



The project included the proposed Howard Frankland Bridge over Tampa Bay. The proposed bridge will be approximately 3.3 miles long and will include 113 spans supported on two end bents and 112 intermediate piers. Also included in the project are sheet pile walls, MSE walls, toll structures, three additional pedestrian bridges, roadway and other miscellaneous structures. When completed it will be the largest bridge (based on square footage) constructed in the State of Florida. Scope of Services: Geotechnical Services

Design-Build US 19 Bridge Over Florida Barge Canal (FDOT District 7)

LOCATION: Citrus County, FL

This project features include the design and construction of new twin bridges to expand the safety and capacity of US 19/US 98/SR 55 in Citrus County, including a post-tensioned three span (285 foot main span) spliced girder bridge. Scope of Services: Geotechnical Services

Design-Build I-95 Overland Bridge Reconstruction - FDOT District 2)

LOCATION: Jacksonville/Duval County, FL

This project consisted of replacing a series of overpasses which carry traffic over Hendricks, Kings and Montana Avenues along 2.3 miles of I-95 near downtown Jacksonville in Duval County. The effort also involved widening of the southern portion of the existing I-95 Fuller Warren Bridge over the St. Johns River. The bridge widening was approximately 2,140 feet in length and included 17 new piers. Scope of Services: Geotechnical Services

Design-Build I-395/SR 836/I-95 (FDOT District 6)

LOCATION: Miami, FL

This project's features include I-395 from the SR 836 / I-95 / I-395 (Midtown) Interchange to the MacArthur Causeway, approximately 1.4 miles in length. The project will completely reconstruct the existing interstate and create a signature bridge spanning 1,025 feet over NE 2 Avenue and State Road (SR) 5/Biscayne Boulevard, redefining the Miami skyline with six sweeping arches. The limits on SR 836 are from NW 17 Avenue to the Midtown Interchange. SR 836 upgrades include double-decking of SR 836 beginning just east of the toll gantry at NW 17 Avenue, and rising over the center of SR 836 (allowing drivers to bypass the I-95 Interchange and arrive at I-395 east of I-95). The limits for the improvements on I-95 are from NW 8 Street to NW 29 Street, including the replacement of concrete pavement for northbound and southbound travel lanes. An auxiliary lane will be added along northbound I-95 (north of NW 17 Street to NW 29 Street) to receive the additional traffic from the eastbound SR 836 ramp to northbound I-95 and enhance the flow of traffic through the Midtown Interchange. The project also features a viaduct bridge, which includes a crossing over the Miami River. Scope of Services: Geotechnical Services

Design-Build Gateway Express (FDOT District 7)

LOCATION: Pinellas County, FL

This project's features include the design and construction of two new 4-lane elevated tolled roadways, that will provide direct connection—with no intersections—between US 19 and I-275 (north of 49th Street North) and I-275 to St. Pete-Clearwater International Airport (PIE) and the Bayside Bridge. The project encompasses 12 miles of roadway and 26 bridges including 19 new structures, widening of six bridges and replacement of one bridge barrier wall. Six of the bridges include crossings over the Cross Bayou Canal. Scope of Services: Geotechnical Services

SECTION 3 Previous Experience of Team Proposed for this Project



Key Vista Nature Park Benthic Survey

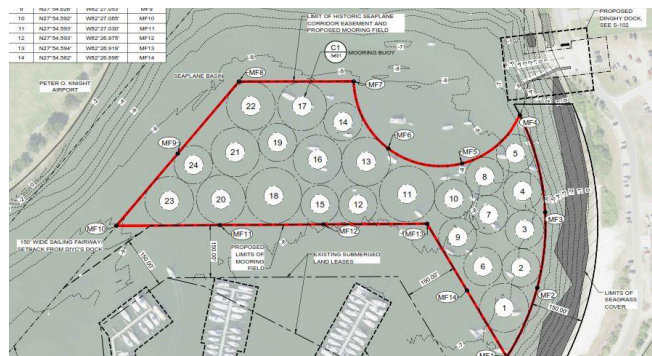
LOCATION: Rocky Creek, Pasco County, FL

CLIENT: Pasco County Natural Resources
Keith Wiley
pnrquestions@mypasco.net
813-929-2760

START/END DATE: March 2020 – May 2023

Quest Ecology Inc. (Quest) performed a benthic resource survey to determine the presence of and, if applicable, the type(s) of benthic resources present within the footprint of a proposed channel dredging project at Key Vista Nature Park, in Pasco County, Florida. A wetland jurisdictional determination was also conducted along the mangrove dominated shoreline, in support of a shoreline restoration project to protect park boardwalks and trails from erosion, and to construct a fishing pier and canoe launch.

The limits of benthic resources were evaluated within Tidal Creek. Seagrasses identified within the survey area included shoal grass (*Halodule wrightii*) and turtle grass (*Thalassia testudinum*). Quest developed a Benthic Resources Map depicting the approximate limits of the seagrass polygons within the survey area. The GPS location and overall density of all seagrass was recorded and summarized in a report. Permitting tasks included applications for Federal and State authorization for dredging and shoreline stabilization measures. Agency coordination and field reviews were conducted with FDEP, USFWS and USACE staff, resulting in design modifications to minimize impacts to shoreline resources.



Davis Island Mooring Field Benthic Survey and Permitting

LOCATION: Seaplane Basin, Hillsborough Bay, Tampa, FL

CLIENT: City of Tampa
Richard Mutterback, Director
(813) 274-8116

START/END DATE: July 2021 – Ongoing

CONTRACT VALUE: \$39,000

Quest Ecology Inc. (Quest) performed a benthic resource survey, habitat evaluations, and shoreline wetland delineation within the footprint of a proposed mooring field and accompanying dinghy dock structure in the Davis Island Seaplane Basin, in Hillsborough Bay, Tampa. Quest prepared and submitted permit applications to USACE, FDEP, Port Tampa Bay, and FWC, requesting authorization to install 24 mooring buoys, a ~1,050 square feet dinghy dock, and to install 14 waterway markers. Quest serves as the main point of contact with agencies throughout the permitting process.

The presence of benthic resources was evaluated within the ~25-acre survey area and approximately 1.5 acres of shoal grass (*Halodule wrightii*) were identified at various densities. Quest developed a benthic resources map and report to depict the limits and densities of seagrass and shoreline areas supporting mangroves and emergent vegetation.

Quest is guiding the client through all permitting processes including application submittal, agency coordination, and field reviews with FDEP, USACE, PTB, and FWC.



SECTION 3 Previous Experience of Team Proposed for this Project



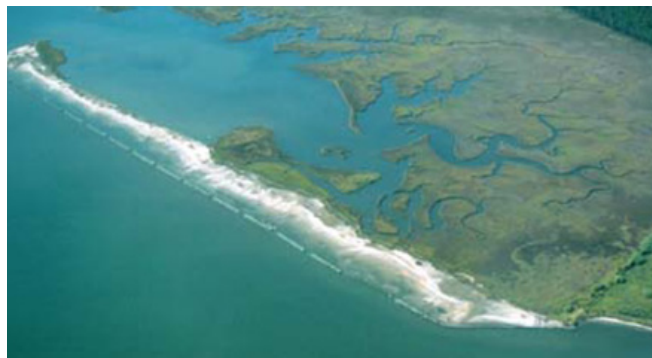
Perdido Bay Pocket Beach

LOCATION: Perdido Bay, Florida/Alabama

CLIENT: Alabama Department of Conservation and Natural Resources
Terry Boyd, Engineering Section Chief
(334) 242-3476

START/END DATE: 2019

South Coast Engineers recently designed a pocket beach system to stabilize over 1,000 feet of Perdido Bay shoreline, including an eroding point, Suarez Point, using beach sand placement and new rock headlands to stabilize the new sand. This project has preserved the intertidal sandy beach habitat while stopping the erosion. This beach, built instead of a bulkhead, survived Hurricane Sally (2020) when most of the bulkheads on the Alabama shore of Perdido Bay failed.



Little Bay Coastal Marsh Creation and Protection Project

LOCATION: Mississippi Sound

CLIENT: Alabama Department of Conservation and Natural Resources
Terry Boyd, Engineering Section Chief
(334) 242-3476

START/END DATE: 2011

The Little Bay project created 30 acres of wetland on Mississippi Sound and protected another 1,000 acres of some of the most productive estuary in the nation. It includes breakwaters, sand and vegetation planting. South Coast Engineers provided the coastal engineering design with a unique, porous, offshore breakwater system to provide just enough wave attenuation for the growth of a *Spartina alterniflora* fringe wetland while also allowing maximum ingress and egress for finfish and shellfish with habitat for oysters. Original laboratory test results were used to optimize the design of the breakwater. The largest living shoreline project in Alabama history was constructed in 2010 and has won numerous awards from engineering and conservation groups for its innovative design including:

- Alabama Engineering Hall of Fame – Inducted in 2015
- 2011 Engineering Excellence Award – National Recognition Award from the American Council of Engineering Companies (note: this national award gala is called the “Academy Awards” of the engineering industry and the overall winner in 2011 was the Hoover Dam Bypass Bridge)
- 2011 First Place Award of Excellence – Carl V. Anderson Conservation Project Award (Association of Conservation Engineers)
- 2011 Engineering Excellence Award – Grand Award (American Council of Engineering Companies of Alabama, ACEC-Alabama)
- 2011 Gulf Guardian Award – 3rd place – Business Category (EPA Gulf of Mexico Program)
- 2011 Project of the Year – Mobile Area Council of Engineers





Section 4 Project Control



Smart STEPs

At GMC, we believe that communication is critical to the success of every project and that many challenges can be avoided with consistent team coordination. We have created a set of tools we call Smart STEPs (Starting Tools for Every Project), which provide both internal and external documents that we begin each project with.

GMC and our Consultants will review the project scope and schedule to identify all necessary project milestones. External project factors, such as weather, availability of materials, long lead items and environmental issues will be calculated into the schedule. Internal factors, such as program issues, access to the site, funding requirements, academic schedules and construction durations will be overlaid with the external issues to develop the project milestones. A master project schedule will be developed incorporating all of these items.

We believe project success ultimately comes down to clear and frequent communication. The most beneficial item, and the one you will see most frequently, is our Design Status Update which will be provided throughout the design process on a weekly or bi-weekly basis.

Within this document we keep the most current schedule milestones, updates and status for the project at your fingertips, as well as action items for all project team members. This keeps us all accountable to each other and gives us a consistent touch point with our team throughout the design process. This document will transform into our field reports throughout the construction process.

Below is a brief example of the Smart STEPs tools .

GMC DESIGN STATUS UPDATE

Goodwyn Mills Cawood
7 East Congress Street
Suite 500
Savannah, GA 31401
T 912 235-1887
www.gmcnetwork.com

PROJECT MILESTONES	SUBMITTAL/START	APPROVAL/COMPLETION
Current Design Phase	Proposed Start Date	Proposed Completion Date
Client/Owner Review Timeline	Proposed Start Date	Proposed Completion Date
Required Agency Submittals	Proposed Start Date	Proposed Completion Date
Local Plan Meeting	Proposed Start Date	Proposed Completion Date
County/City Review	Proposed Start Date	Proposed Completion Date
MPF Pre-Construction	Proposed Start Date	Proposed Completion Date
Construction Schedule	Proposed Start Date	Proposed Completion Date

DESIGN STATUS:
Snapshot description of the current project status.

PREVIOUS WEEK'S ACCOMPLISHMENTS:

- ITEMS COMPLETED THE FOLLOWING WEEK
- NOTES DESCRIBING ITEMS REQUIRING ATTENTION BY TEAM MEMBERS

UPCOMING PROJECT GOALS:

- ITEMS BEING TRACKED FOR THE COMING WEEKS
- NOTES DESCRIBING ITEMS REQUIRING ATTENTION BY TEAM MEMBERS

UPCOMING MEETINGS:

- PROJECT DESIGN MEETING DATE @ TIME

OWNER ACTIONS:

- COORDINATION/TIME WITH OWNER DEPARTMENTS & CONSULTANTS

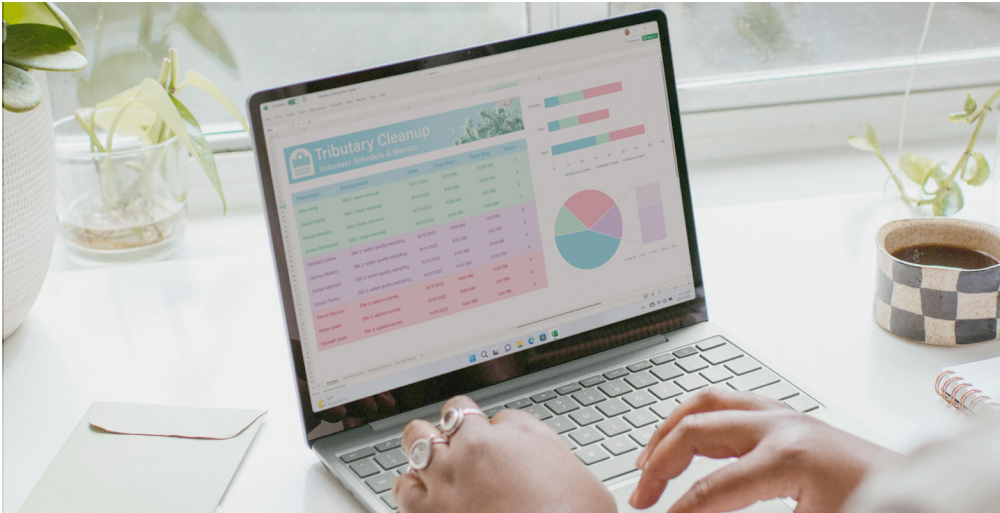
DESIGN TEAM ACTIONS:

- ITEMS THAT NEED TO BE COMPLETED IN THE COMING WEEKS
 - ACTION PERSON RESPONSIBLE
- ITEMS THAT NEED TO BE COMPLETED IN THE COMING WEEKS
 - ACTION PERSON RESPONSIBLE

- ▲ Design Status Update provides consistent communication throughout the design to improve transparency and accountability throughout the team. Includes the following:
1. Design Status Summary
 2. Overall Milestone Schedule
 3. Scheduled & upcoming meeting
 4. Owner-related items critical to the project
 5. Action Items list with responsible parties

Smart Tool samples





“Cost control does not inhibit one’s creativity; economy is a major consideration, not a constraint.”

Budget Management

GMC recognizes the importance of accurate estimating at each stage of project service delivery, as a management and decision tool for the owner. Our team has been uniquely successful in maintaining cost control with both architecture and engineering projects. We begin each project with a comprehensive, preliminary cost estimate and actively update the cost estimate, with the client, through the Design Phases.

Our approach to cost control includes a search for “economy ideas,” which leads to a realistic preview of costs and a balanced budget to meet the extent of available funds. Cost control begins with programming, and is basic to the whole architectural design problem to be solved.

Cost control does not inhibit an architect’s creativity; economy is a major consideration, not a constraint.

Predicting costs at programming is not difficult since

total planning proceeds from the general to the specific — from the broad scope to the detailed scope. During programming, cost estimates are made by successive approximations from a rough tally of gross area (and testing it with different quality levels of construction) while keeping an eye on building cost and other anticipated expenditures.

Realistic budgets are predictive and comprehensive. They avoid major surprises. They tend to include all the anticipated expenditures as line items in a cost estimate analysis. We look to past

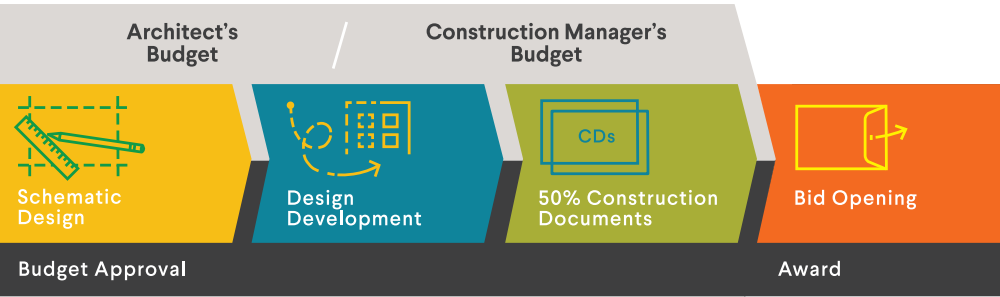
experience and published material to derive predictive parameters.

At the Schematic Design Phase, we will include a contingency of 10% to 12% of the construction value to account for unknowns which crop-up in subsequent phases. At the completion of the Design Development Phase this Design Contingency is usually reduced to 5% to 7%. Just prior to bidding, the Design Contingency in the budget, is usually adjusted to 5% to account for market fluctuations. We find it prudent to carry a Construction Contingency of

3% to 5% to allow for market fluctuations that may occur during construction, which become more pronounced as the building size increases.

The ability to maintain costs directly relates to our experience, as well as our planning and preparation before the project begins. It is perhaps appropriate to note that, over the past four years, projects have been bid for an average of 2% below budget with total change orders, not including owner requested items, averaging less than 3% per project, for a net addition of 1.0% per facility on an average basis.

Budget Management



Firm Workload

Our team has the necessary availability to assist you in the engineering services for Charlotte County.

Ability to manage the effort to minimize impact on existing County staff

Scott Stannard is an experienced project manager with over 35 years of engineering experience. He is familiar with the demands on the time of County staff and how to effectively deliver a job. Our Team will continue to manage and deliver projects on time and within budget.

Ability of team to devote time and resources necessary to successfully complete the project in a timely manner

Our team has the depth of staff and resources necessary to handle any sized project of any complexity. We are staffed with seasoned professionals who have experience in all types of project requirements from programming to construction administration. We are currently completing several major projects and are ideally positioned to take on more work without affecting our other on-going projects. Charlotte County projects will be our local team's priority project. We have committed experienced staff and exceptional consultants for this commission and are available and eager to focus on YOU!

Accessibility of project manager and key personnel

Accessibility of personnel can often be a critical factor in meeting schedules. Our team strives to be accessible to our clients. Charlotte County will have direct access to our executive management team, and we list our cell phone numbers on our business cards and commit to returning phone calls and emails within 24 hours.

Scott Stannard, PE, Vice President / Project Manager

21764 State Rd 54,
Lutz, FL 33549
M (813) 334-9413

Ability to meet accelerated timeline and budget restraints

Our team recognizes the importance of accurate estimating at each stage of project service delivery, as a management and decision tool for the owner. On every project, we utilize a variety of resources to design and construct within the cost estimate and the schedule set forth by the client. We begin each project with a comprehensive, preliminary cost estimate and actively update the cost estimate, with the client, through design completion.

Our team has been highly successful in maintaining costs on a variety of engineering projects. The ability to do so directly relates to our experience, as well as our planning and preparation before the project begins.

On the right, you will find an overview of our recent, ongoing, and anticipated workload. We are well-positioned to accommodate new projects seamlessly without disrupting our current commitments.

Project Name:	Backlog	Current Stage	% Complete	Estimated Design Completion Date	Estimated Construction Completion
Wawa - Ft Meade	\$ 80,262	CD	95%	Sep-23	May-24
Wawa - Leesburg	\$ 21,600	CD	90%	Dec-23	Sep-23
Wawa - Riverview	\$ 2,200	SD	90%	Oct-23	Sep-24
Aldi - Parrish	\$ 855,494	SD	75%	Mar-24	Feb-25
Brooksville Multi Use Commercial	\$ 4,700	CD	85%	Nov-23	Jan-25
Odessa Multi Use Commercial	\$ 13,705	CD	85%	Jan-24	Jun-25
Land O Lakes Multi Use Commercial		CD	85%	Jan-24	Dec-24
Metro Diner Conversion - Brandon	\$ 140,040	SD	10%	Feb-24	Dec-24
MD Groves - Multi Use Commercial	\$ 79,350	SD	75%	Jul-24	Jul-25
Connerton Self Storage	\$ 6,200	SD	75%	Mar-24	Feb-25
Land O Lakes Self Storage	\$ 15,750	SD	15%	Apr-24	Mar-25
Sunlake Self Storage	\$ 7,966	SD	35%	Apr-24	Apr-25
Aldi - Wellen Park	\$ 103,828	SD	0%	Dec-24	Oct-25
Ft Johnson, LA - Road Repair	\$ (1,606)	SD	15%	Aug-24	May-25
FLETC - Glynco GA		DD	10%	Nov-24	May-26
Jacksonville, NC - VA Clinic	\$ 1,824	SD	10%	Feb-25	Apr-26



Section 5 Proposed Approach



SECTION 5 Project Approach

Our design and quality assurance processes are interwoven into our project delivery methodology beginning at pre-design and concluding at year-end inspections. Our process ensures open communication is established during the project's initial phases with workshops attended by all project stakeholders team members.

Partnering/Pre-Design Charrette

Partnering is accomplished in two forms in order to provide the County with the best possible service. First, GMC has brought together a vastly accomplished and experienced team of design consultants and professionals. These are all team members that we have worked with extensively over many years. It is this set of lead professionals that will participate in the second step of Partnering and that is the Pre-Design Charrette. The purpose of the pre-design charrette is to facilitate communication and understanding of the project parameters including cost limits and schedules for design and construction. This workshop is framed around a structured process known as "Problem Seeking". Through this process we develop a strong rapport with our client, an understanding of the quantitative goals of the project, the project's qualitative elements and budget parameters. All project elements are clearly and specifically defined and described to all decision makers. Prior to customer sign-off of the project program "what if" scenarios study the impact of specific decisions on project size, quality and budget are conducted. The result is consensus before commencement of design. We have found this to be a primary step in the control of quality on our projects.

Schematic Design

This project phase includes development, documentation and presentation of design concepts to meet the Owner's desired image, budget and schedule. The Engineering team will collect site related data such as survey and topo, documenting existing conditions, preliminary geotechnical investigation (unless currently available through Charlotte County) and inspect the site to familiarize the team with existing conditions and other factors impacting the project design.

Through collaboration with the County and other stakeholders, the design team will confirm the owner's layout and design requirements and objectives along with an initial assessment of the budgeted fixed limitation on project and construction costs. We will review zoning restrictions and requirements and other influencing factors. The Engineer team will review the project milestones and schedules. The output of these evaluations will be a preliminary written evaluation relative to budget requirements.

The design team will prepare a schematic design illustrated with drawings, sketches and other documents that will convey scale and relationship of proposed project components. The schematic design documents will include site plans, building floor plans, elevations, cross sections and perspective images. An estimate of probable construction costs based on the

schematic design recommendations will be detailed by major construction disciplines and building systems. The design team will submit an estimate of the annual cost per square foot for utilities.

A Schematic Design review meeting will be scheduled to review and discuss alternative approaches to design and construction of the project and to provide the architect/engineer team direction for further development.

Design Development

The design team will further develop the building and related systems to produce drawings and other documents to describe the size and character of the project including structural, mechanical and electrical systems, and materials and other design elements. We view this phase of our work as a continuation of the collaborative effort between all stakeholders. An updated statement of probable construction costs will include more detail as basis of design decisions are made. This updated cost evaluation is part of the design development submittal for review and approval by the County. The resulting design development decisions will be translated into drawings and specifications for bidding and ultimately for construction purposes.

Construction Documents

Following approval of the Design Development submittal, the design team will prepare the Construction Document package to include construction drawings and specifications. As the project moves forward into final design stages, we will submit and seek County reviews at regular intervals. Typically we provide progress documents at 30%, 60%, 90% and 100% completion stages. At each of these progress submittals, the engineer team will update and revise the statement of probable construction costs to ensure compliance with the Owner's fixed limitation of construction costs. During these subsequent development stages, the design team will identify a list of bid alternates for Owner review and approval. The bid alternates will assure the project can be awarded within the fixed limitation for construction costs.

The construction drawings will include drawings from the team consultants and others as may be necessary. Our quality assurance processes includes a "redicheck" document review where all drawings and specifications are reviewed by a third party not directly involved in the preparation of the documents prior to their release for Owner review and bidding.

We will provide review construction documents for review by the Owner. Following receipt of the Owner's review comments, the Engineer will finalize construction documents that detail the Work. The delivery of the final construction documents will include written notification of any comments of the Owner which have not been incorporated. All final construction documents will bear the seal of the Engineers responsible for those documents.



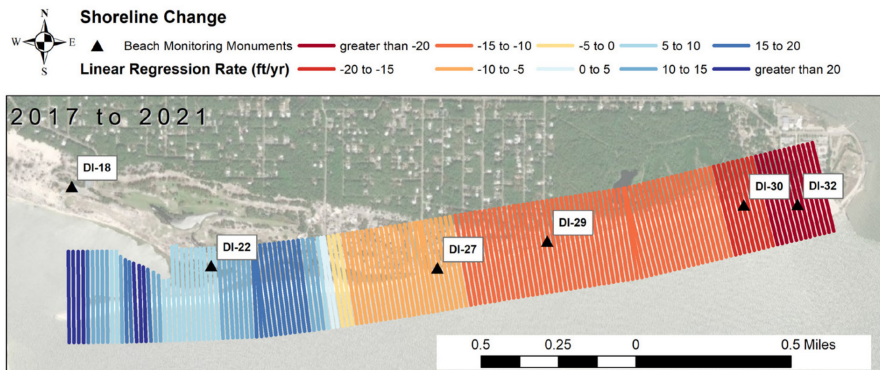
Section 6
Examples of Recently
Accomplished Similar Projects



DAUPHIN ISLAND

East End Beach & Dune Restoration

A Case Study



The problem: Extensive beach and dune habitat damage due to tropical storms and major hurricanes over the last 7 - 10 years.

The solution: A restoration project that will involve the creation of dunes and vegetation, and the placement of approximately one million cubic yards of sand along 4,800 feet of shoreline, extending from East End Public Beach to halfway through DeSoto Landing Neighborhood.

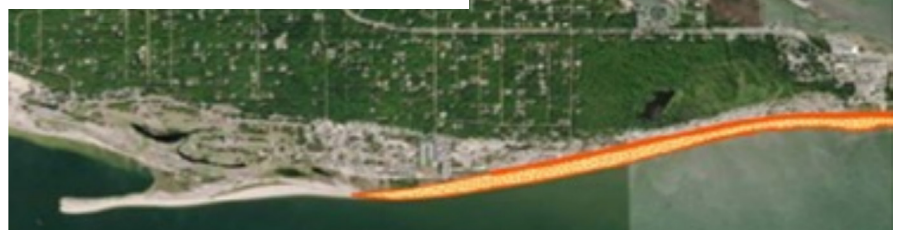
The Town of Dauphin Island has successfully secured funding from the National Fish and Wildlife Foundation Gulf Environmental Benefit Fund (NFWF GEBF) for an engineering and design phase aimed at restoring the beach and dunes along the East End of the island. This project builds upon the success of the 2015-2016 beach restoration initiative, which effectively halted decades-long erosion losses. Despite the impact of hurricanes Nate, Michael, Sally, and Zeta, approximately two-thirds of the sand placed in March 2016 remains within the project limits, with the rest distributed on the island beaches to the west.

The new project, recognized as the highest priority in the US Army Corps of Engineers (USACE) Final Alabama Barrier Island Restoration Assessment Report of 2020, aims to renourish and extend the existing beach restoration. Healthy beaches

and dunes play a crucial role in providing unique habitats for various species, and the publicly-accessible East End beach also serves as a protective barrier for the Audubon Bird Sanctuary and other upland resources during storms.

The comprehensive project design encompasses the strategic placement of over one million cubic yards of sand, spanning nearly 1.5 miles and restoring the beach width to an impressive 300 feet.

▼ The aerial below highlights the area of shoreline aiming to be restored.



Additionally, the initiative includes the restoration of 14 acres of dunes and the creation of 72 acres of beach habitat. To complement these efforts, the project incorporates essential elements such as sand fencing and the cultivation of native beach vegetation.

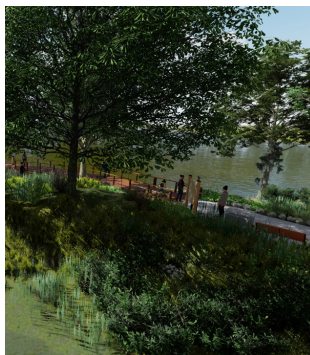
GMC is responsible for handling bidding, procurement, and construction inspection aspects of the project. South Coast Engineers has been contracted to execute the engineering and design phase. This comprehensive phase includes public outreach, engineering and design processes, as well as obtaining necessary permits. The coordinated efforts of these firms demonstrate a multi-faceted approach to ensure the successful restoration and preservation of the East End beach and dune habitat on Dauphin Island.

Healthy beaches and dunes provide unique habitats for a variety of species (including humans). The publicly-accessible East End beach protects the Audubon Bird Sanctuary and other upland resources from storms.

Lake Beresford Shoreline Restoration and Public Access Enhancements at the Sandra Stetson Aquatic Center

Location: Stetson University
Deland, Florida
Status: Completed 2022
Cost: \$800,000

Contact:
Dr. Jason M. Evans, Executive Director
Institute for Water and Environmental
Resilience
421 N. Woodland Blvd.
Sage Hall 244
DeLand, FL 32723
(386) 822-7910



GMC's Environmental, Planning and Engineering departments worked with Stetson University on a concept to develop an eroding wave break peninsula on Lake Beresford at the Sandra Stetson Aquatic Center. GMC hosted a charrette with the University faculty and staff, students and interested stakeholders to gather information for the design. The results were a Living Shoreline (LSL) ecological restoration project. By installing native vegetation and wave-abatement structures, this project will help reduce shoreline erosion and improve habitats for fish and other wildlife. All exotic and invasive vegetation will be removed from the site as part of ecological restoration activities. For educational and outreach purposes, a boardwalk and multiple kiosks were designed to educate about living shorelines and lake ecology and provide scenic enjoyment to the community.



Section 7

Experience and Capabilities



SECTION 7 Experience and Capabilities

Value Engineering

We have a very strong record of designing our projects within the established project budget by performing regular in-house probable costs-estimates and working with our cost consultant throughout the design process. We have a large database of projects from which we pull probable costs to provide our estimates. Our goal is to issue drawings for bid that were designed with the intent to meet the established project budget. We seek to eliminate the need for a VE exercise, however, it is understood that the current industry is an ever-changing environment, and the need for value engineering is always a possibility. If the project does bid over budget, we will work with our clients to make suggestions to bring the project costs down. We will get suggestions from the contractor, review, and make recommendations for acceptance of any ideas that do not alter the project's established goals and outcomes.

FDEP Permitting

Goodwyn Mills Cawood brings a wealth of expertise and experience in securing permits from the Florida Department of Environmental Protection (FDEP). Our proven track record in FDEP permitting underscores our commitment to navigating the regulatory landscape with precision and efficiency. We adopt a strategic and proactive approach to FDEP permitting. By anticipating regulatory requirements and addressing them comprehensively, we facilitate smoother approvals and minimize delays.

ACOE Permitting

Choosing Goodwyn Mills Cawood for your ACOE permitting needs means partnering with a firm that not only understands the intricacies of the regulatory landscape but also has a proven track record of successfully securing ACOE permits. Our commitment to excellence and our ability to navigate the regulatory requirements of the U.S. Army Corps of Engineers make us the ideal ally for projects seeking timely and effective permitting approvals. With a robust history of successful ACOE permitting, our firm stands as a trusted partner in ensuring your project receives the necessary approvals for implementation.

Environmental Assessment

Goodwyn Mills Cawood stands as a trusted leader with extensive experience in conducting comprehensive Environmental Assessments (EA). Our firm is committed to environmental stewardship, and our seasoned professionals bring a wealth of expertise to ensure that each assessment aligns with the highest standards of environmental protection. With a proven track record, Goodwyn Mills Cawood combines technical proficiency, innovative approaches, and a deep understanding of regulatory requirements to deliver Environmental Assessments that not only meet but exceed expectations. Our commitment to sustainable practices and environmental integrity makes us the partner of choice for projects seeking a thorough and environmentally responsible assessment process.



PowerSouth Florida Wetland Delineation



Corkscrew Swamp Wildlife Assessment
Naples, FL



Stetson Living Shoreline
Lake Beresford FL

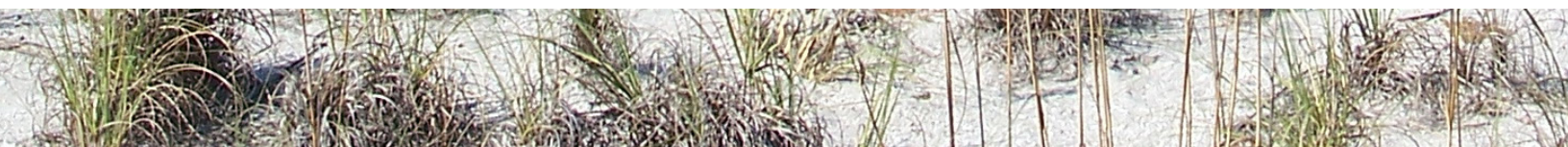


Wildlife Hazard Risk Assessment
Immokalee, FL



Section 8

Volume of Work



Magnitude of Charlotte County Projects

In light of the lack of previous engagements with Charlotte County, Goodwyn Mills Cawood expresses gratitude for the chance to contribute their wealth of invaluable experience to the upcoming venture. Charlotte County has the clear intent to choose a qualified firm for the provision of professional engineering services, specifically for a comprehensive ten-year beach and inlet management plan. This ambitious plan encompasses a range of crucial components, such as alternative analysis, design, permitting, construction support, and monitoring.

It is worth noting that Goodwyn Mills Cawood is actively engaged in a comparable project in Dauphin Island, Alabama, underscoring their current involvement and expertise in similar initiatives. This experience positions the firm well to bring valuable insights and lessons learned to the table, further enhancing their ability to contribute effectively to the success of Charlotte County’s beach and inlet management plan.

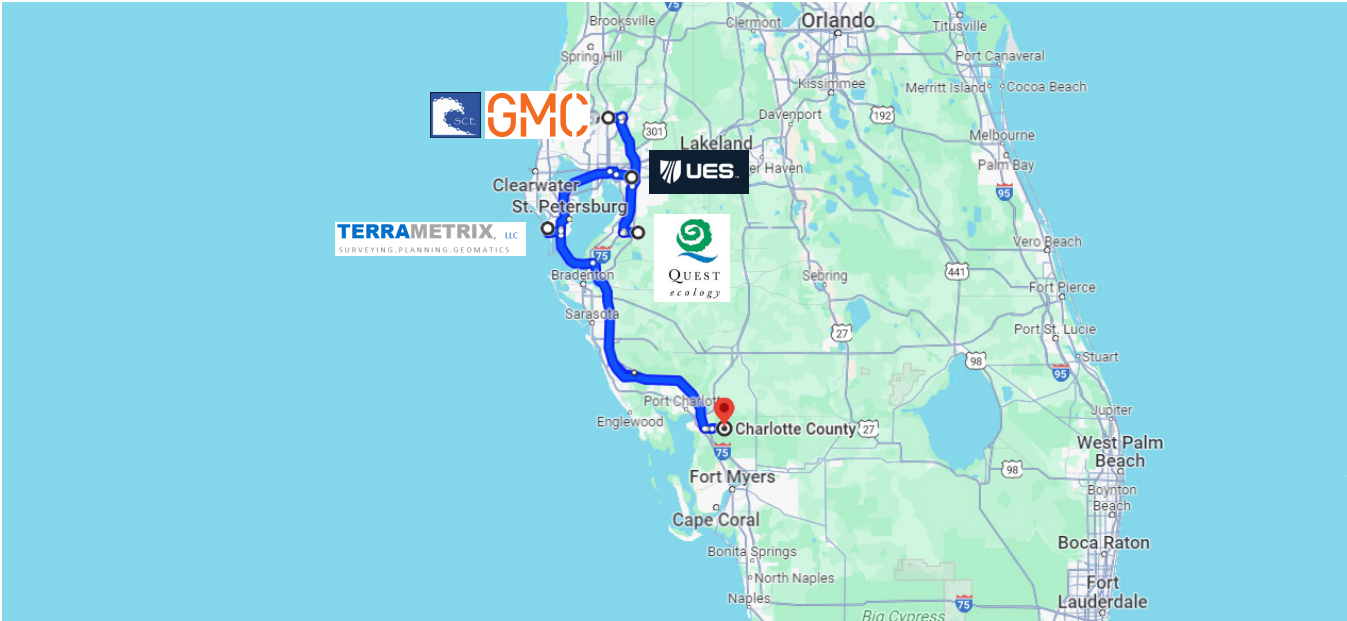
Number of Current or Scheduled County Projects	0
Payments Received from the County over the past 24 months <i>(based upon executed contracts with the County)</i>	\$0.00

▼ Dauphin Island, Alabama East End Beach Restoration





Section 9 Location



Proximity to the Project

Situated in South Florida, Goodwyn Mills Cawood and sub-consultants have strategically positioned themselves within a convenient two-hour drive to the project’s geographical hub. This geographic advantage translates into an unparalleled agility and swiftness in addressing project needs, fostering a seamless and efficient communication flow.

The localization of GMC and its sub-consultants not only underscores our commitment to the project but also underscores our dedication to fostering a strong, hands-on collaboration. Such proximity demonstrates a proactive approach to the County’s needs, allowing for prompt responses, and ensuring that the County’s vision is realized with precision and expediency.

Accessibility of project manager and key personnel

Accessibility of personnel can often be a critical factor in meeting schedules. Our team strives to be accessible to our clients. Charlotte County will have direct access to our executive management team, and we list our cell phone numbers on our business cards and commit to returning phone calls and emails within 24 hours.

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21764 State Rd 54,
Lutz, FL 33549
M (813) 334-9413



Goodwyn Mills Cawood
21764 FL-54
Lutz, FL 33549



Quest Ecology Inc
735 Lakeview Dr,
Wimauma, FL 33598



Universal Engineering Sciences, Inc.
9802 Palm River Road,
Tampa, FL 33619



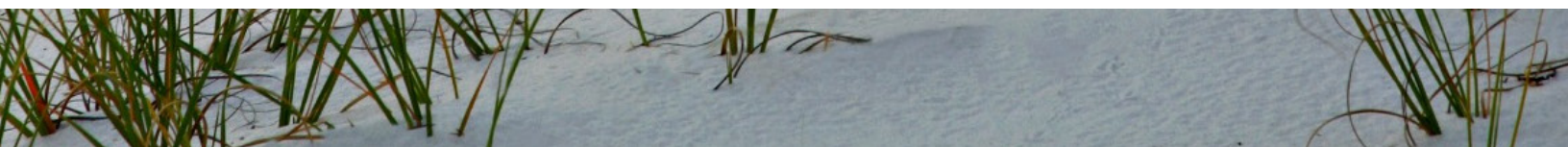
TerraMetrix
225 1st Avenue North, Suite 2610
St Pete Beach, FL 33706



South Coast Engineering
21764 FL-54
Lutz, FL 33549
PO Box 72
Fairhope, AL 36532



Section 10 Litigation



LITIGATION HISTORY

None of the cases listed below involve members of the proposed team.

GMC is a nationally recognized architecture and engineering firm. Although GMC's involvement in claims and lawsuits is extremely infrequent (0.001%) compared to our volume of projects and due to the risk management and quality control efforts of our teams, litigation in which we are a party does occur from time to time. On these rare occasions we consider these matters confidential between our firm and our

clients, and we are not allowed to disclose information on specific cases. We also maintain general and professional liability, workers' compensation and automobile insurance in sufficient limits to cover any outstanding claims or lawsuits. Our legal counsel fully anticipates that any such claims will be resolved well within the policy limits. There are no unsatisfied judgments against GMC.

GMC's litigation involvement is extremely rare, .001% in fact, when compared to the sheer volume of work we do.



Case Name	Case #	Court	Status	Date Last Activity	Description	GMC Office
Hoover City Schools v. Stone Building, LLC, GMC, et al.	01-CV-2021-903752	Jefferson County, AL	Pending	2021	Plaintiff alleges design and construction defects causing some water damage after renovations were completed on an existing building.	Birmingham
ABCC v. Town of Lincoln & GMC	10CV02020-900444	Circuit Court of Talledega County, Alabama	Pending	2020	Alabama Plaintiff sued Town of Lincoln, Alabama and GMC alleging that it was harmed after its contract was voided and project was rebid due to ABCC not being properly licensed at the time of the bid opening	Birmingham
Finley v. Otis Elevator Company, HBG Design Architects, PC, Brown Chambless, Goodwyn, Mills & Cawood, Inc.	CV-2020-900070	Escambia County, Alabama	Case dismissed with prejudice	2020	Plaintiffs allege injuries resulting from an 11 floor fall in an elevator at Wind Creek Casino in Atmore, Alabama. GMC provided design services for the casino project with substantial completion in 2009	Montgomery
Penny Holton vs GMC	11-CV-2019-900253	Calhoun County, AL	Pending	2019	Penny Holton was stepping off a sidewalk in a parking lot then tripped on a drainage inlet causing her to fall. Curb design and drainage inlet are standard details and meet all current design standards and applicable codes.	Montgomery



Section 11 Minority Business



SECTION 11 Minority Business

GMC does not qualify as Minority Business Enterprise in the state of Florida. Though GMC is not a disadvantaged business, we strongly support diversity internally. Our firm employs 500 individuals and take pride in the diversity of our team. Our company is made up of a diverse group of individuals, including African American, Caucasian, Asian, Latin American, and men and women of all age groups. GMC understands the challenges faced by Small, Disadvantaged, Minority and/or Woman-Owned Business Enterprises. We have developed strong working relationships with various DBE, MBE, and WBE firms who are knowledgeable in the engineering and architecture industry and have built reputations for quality, timely service. We are fully committed to incorporating disadvantage firms and regularly seek the assistance of local MBE/WBE/DBE firms within the community for many of our projects whenever possible to ensure the design team reflects the community in which we are working.



For this project, we have teamed with Quest Ecology. Quest Ecology was founded in 1996 by Ms. Vivienne Handy. After 10 years of government agency and private consulting experience, Vivienne recognized the need for professionals with a specific focus on ecological services. As a department head with the full responsibility for management of staff and resources, she was prepared to assemble a more specialized group of environmental professionals to meet the growing need for ecological consulting.

Quest has since grown to a dedicated team of professional wetland scientists (PWS), wildlife ecologists, environmental scientists, and GIS specialists. The Quest team is large enough to handle just about any project that comes along, yet small enough to be focused and effective. Our clients enjoy personal attention and a level of detail often not found with larger consulting firms whose concentration may be on engineering or other areas. Our size and focus allow us the freedom to develop a unique skill set that combines specialized applied science with client service.

Certifications & Registrations:

- Disadvantaged Business Enterprise (DBE) — Florida Department of Transportation
- State of Florida Woman-owned Business
- Small Business certification with numerous government agencies
- Federal System for Award Management (SAM), NAICS code 541620: Environmental Consulting Services
- US Small Business Administration: Economically Disadvantaged Woman Owned Small Business (EDWOSB)



Our Mission

To be the “preferred alternative” for specialized ecological and regulatory expertise.



Our Vision

- To provide comprehensive ecological services.
- To be known for responsive, reliable results.
- To promote awareness and cultivate relationships with clients who care.

Building Communities.



Scott K. Stannard, PE
Vice President / Project Manager

(813) 334-9413
scott.stannard@gmcnetwork.com

GMC
Goodwyn Mills Cawood

Building
Communities



www.gmcnetwork.com

PART IV - SUBMITTAL FORMS
PROPOSAL SUBMITTAL SIGNATURE FORM

1.	Project Team Name and Title	Years experience	City of office individual will work out of for this project	City individual's office is normally located	City of individual's residence
2.	Magnitude of Company Operations				
	A) Total professional services fees received within last 24 months:			\$ 299,670,000.00	
	B) Number of similar projects started within last 24 months:				
	C) Largest single project to date:			\$	
3.	Magnitude of Charlotte County Projects				
	A) Number of current or scheduled County Projects				
	B) Payments received from the County over the past 24 months (based upon executed contracts with the County).			\$	
4.	Sub-Consultant(s) (if applicable)	Location	% of Work to be Provided	Services to be Provided	
5.	Disclosure of interest or involvement: List below all private sector clients with whom you have an active pending contract and who have an interest within the areas affected by this project. Also, include any properties or interests held by your firm, or officers of your firm, within the areas affected by this project.				
	Firm	Address			
	Phone #	Contact Name			
	Start Date	Ending Date			
	Project Name/Description				

NAME OF FIRM _____
(This form must be completed and returned)

6. Minority Business:

Yes _____ No _____

The County will consider the firm's status as an MBE or a certified MBE, and also the status of any sub-contractors or sub-consultants proposed to be utilized by the firm, within the evaluation process.

Comments or Additional Information:

The undersigned attests to his/her authority to submit this proposal and to bind the firm herein named to perform as per contract if the firm is awarded the Contract by the County. The undersigned further certifies that he/she has read the Request for Proposal, Terms and Conditions, Insurance Requirements and any other documentation relating to this request and this proposal is submitted with full knowledge and understanding of the requirements and time constraints noted herein.

By signing this form, the proposer hereby declares that this proposal is made without collusion with any other person or entity submitting a proposal pursuant to this RFP.

In accordance with section 287.135, Florida Statutes, the undersigned certifies that the company is not on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List and does not have business operations in Cuba or Syria (if applicable) or the Scrutinized Companies that Boycott Israel List or is not participating in a boycott of Israel.

As Addenda are considered binding as if contained in the original specifications, it is critical that the Consultant acknowledge receipt of same. The submittal may be considered void if receipt of an addendum is not acknowledged.

Addendum No. _____ Dated _____ Addendum No. _____ Dated _____ Addendum No. _____ Dated _____

Addendum No. _____ Dated _____ Addendum No. _____ Dated _____ Addendum No. _____ Dated _____

Type of Organization (please check one): INDIVIDUAL () PARTNERSHIP ()
CORPORATION (X) JOINT VENTURE ()

Firm Name

Telephone

Fictitious or d/b/a Name

Federal Employer Identification Number (FEIN)

Home Office Address

City, State, Zip

Number of Years in Business

Address: Office Servicing Charlotte County, other than above

Name/Title of your Charlotte County Rep.

Telephone

Name/Title of Individual Binding Firm (Please Print)

Signature of Individual Binding Firm

Date

Email Address

(This form must be completed & returned)