

E-COPY

REQUEST FOR PROPOSAL

RFP #2023000332

POST HURRICANE IAN BATHYMETRIC SURVEYS

COASTAL ENGINEERING CONSULTANTS, INC.



Prepared For:

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

Prepared By:

Michael T. Poff, P.E., President
Coastal Engineering Consultants, Inc.
28421 Bonita Crossings Blvd.
Bonita Springs, FL 34135
(239) 643-2324 Ext. 126 / mpoff@cecifl.com

Proposal Due Date and Time: March 2, 2023 – 3:00 P.M.
CEC File No. 23.075

www.coastalengineering.com



February 28, 2023

Cheri Alexander, C.P.M., CPPB
Senior Contract Specialist - Purchasing
Charlotte County Purchasing Department
18500 Murdock Circle
Port Charlotte, Florida 33948-1094

Re: RFP No. 2023000332, Post Hurricane Ian Bathymetric Surveys
CEC File No. 23.075

Dear Ms. Alexander:

We appreciate this opportunity to present the qualifications and experience of Coastal Engineering Consultants, Inc. (CEC) to assist Charlotte County to perform a post-storm bathymetric survey of various MSBU waterways including Alligator Creek, Buena Vista, Ackerman / Manchester, Northwest Port Charlotte, Gulf Cove, Harbour Heights, Suncoast, South Gulf Cove, and Pirate Harbor to locate and quantify reported and assumed sediment shoaling within these waterways due to the impacts of Hurricane Ian. CEC will conduct bathymetric surveys, process all data collected, prepare plans and drawings, and provide technical assistance.

CEC offers our local presence in Southwest Florida to provide the County with cost-effective and personalized services. We have successfully completed dozens of projects under various Charlotte County annual and project specific contracts for over 45 years. Currently we are assisting the County on fifteen active projects including coastal, marine, environmental, and survey projects. Throughout CEC's history, we have always put the client first and provided **superior service** to Charlotte County on a diverse range of projects and have developed **outstanding working relationships** with your staff.

CEC's local knowledge of your nearshore and coastal waterways is unmatched. We have unparalleled experience in conducting bathymetric surveys in Southwest Florida, especially for Charlotte County, including interior canals, exterior channels leading to the river channels, rivers, tidal inlet, nearshore, and offshore waters; performing post-storm assessments to quantify damages; and providing technical support to aid our clients secure federal funding for post-disaster recovery and public assistance. We wish to make a positive commitment to the citizens of Charlotte County and to the Board of County Commissioners, that we can apply all of our resources to the timely, aggressive, successful completion of your Project. Thank you for your consideration and we look forward to working with you on the **Post Hurricane Ian Bathymetric Surveys Project**.

Respectfully Yours,
COASTAL ENGINEERING CONSULTANTS, INC.

A handwritten signature in blue ink, appearing to read "Michael T. Poff", with a stylized flourish at the end.

Michael T. Poff, P.E.
President

PART V - 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						
	Michael T. Poff, P.E., President	31	Bonita Springs	Bonita Springs	Naples						
	Mark A. Kincaid, P.E. VP Engineering	36	Bonita Springs	Bonita Springs	Bonita Springs						
	Richard J. Ewing, P.S.M., VP Survey and Mapping	37	Bonita Springs	Bonita Springs	Naples						
	Jeremy B. Herget, P.E., Managing Engineer	13	Bonita Springs	Bonita Springs	Naples						
	Grady V. Timmins, P.E., Project Engineer	8	Bonita Springs	Bonita Springs	Naples						
	Kyle M. Gullikson, Marine Surveyor	3	Bonita Springs	Bonita Springs	Fort Myers						
	Mark Snowman, Sr. Surveying & Mapping Crew Chief	10	Bonita Springs	Bonita Springs	Fort Myers						
	Vadim V. Alymov, Ph.D., Coastal Modeler	22	Bonita Springs	Bonita Springs	Naples						
	Samantha Brasher, Senior Designer	18	Bonita Springs	Bonita Springs	Naples						
2.	Magnitude of Company Operations										
	A) Total professional services fees received within last 24 months:			\$ 17,245,144.70							
	B) Number of similar projects started within last 24 months:			11							
	C) Largest single project to date:			\$ 1,733,700.65							
3.	Magnitude of Charlotte County Projects										
	A) Number of current or scheduled County Projects			17							
	B) Payments received from the County over the past 24 months (based upon executed contracts with the County).			\$ 1,549,363.41							
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 Coastal Engineering Consultants, Inc.
 (This form must be completed and returned)

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 _____ No <u>X</u>
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. 1 Dated 2/23/2023 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 ()

Coastal Engineering Consultants, Inc. (239) 643-2324 (239) 643-1143
 Firm Name Telephone Fax

_____ 59-1728628
 Fictitious or d/b/a Name Federal Employer Identification Number (FEIN)

28421 Bonita Crossings Boulevard
 Home Office Address

Bonita Springs, Florida 34135 45
 City, State, Zip Number of Years in Business

 Address: Office Servicing Charlotte County, other than above

 Name/Title of your Charlotte County Rep. Telephone Fax

Michael T. Poff, P.E., President
 Name/Title of Individual Binding Firm (Please Print)

 February 28, 2023
 Signature of Individual Binding Firm Date

mpoff@cecifl.com
 Email Address

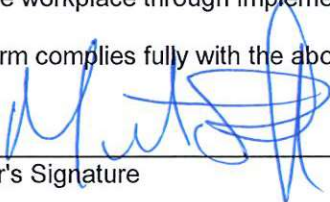
(This form must be completed & returned)

DRUG FREE WORKPLACE FORM

The undersigned vendor in accordance with Florida Statute 287.087 hereby certifies that Coastal Engineering Consultants, Inc. 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

February 28, 2023

Date

END OF PART IV

(This form must be completed & returned)

BYRD ANTI-LOBBYING CERTIFICATION

Certification for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of an Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

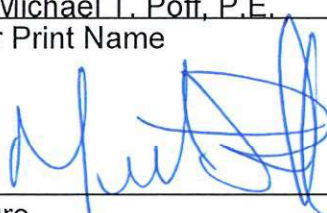
(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S.C. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

February 28, 2023
Date

Michael T. Poff, P.E.
Type or Print Name


Signature

President
Title

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SECTION I
PROJECT TEAM

I. PROJECT TEAM

A. BACKGROUND OF TEAM

INTRODUCTION

Coastal Engineering Consultants, Inc. (CEC) is a small locally owned business recognized for our expertise in marine engineering and marine surveying on the Gulf Coast. Our experienced professionals possess the knowledge, integrity, and resolve to change our environment and improve our daily lives and the communities in which we live. Based in Florida, CEC is actively involved in the evaluation, planning, studies, reports, permitting, and design of diverse marine infrastructure and ecosystem restoration projects along the Gulf Coast. Our staff of engineers, scientists, permit specialists, and surveyors design workable alternatives to produce timely, cost-effective results that are in harmony with natural ecosystems. CEC employs 22 personnel of whom 6 are licensed professionals in their respective fields.

CEC's strength is in its nationally recognized expertise in conducting reconnaissance and feasibility studies, performing engineering design from preliminary to final plans and specifications, cost estimating, and performing bid and construction management services for marine structures; waterfront development; coastal systems analyses; waterway management and navigation; erosion control and shoreline stabilization; beach and dune restoration; marsh and wetland creation; ecosystem restoration; comprehensive watershed studies; and multi-purpose water resource projects.

One of CEC's primary service sectors is the design, permitting, and construction administration of piers, marinas, boat ramps, mooring fields, waterway management, and related amenities. CEC's specific tasks have included bathymetric and environmental resources surveys; underwater structural inspections including video; coring/probing and sediment testing; submerged utility location surveys; submerged utility repairs; pier, dock, bulkhead and seawall repair plans and specifications; new facility construction plans and specifications; bid services; and construction services. We are well versed in providing the myriad of complementary services for these complex projects including environmental assessments, submerged aquatic vegetation inventories and mapping, listed species surveys, delineation of jurisdictional wetland boundaries, facility amenity selection and costing, and utility hook-up capacity analysis.

Our corporate philosophy, first and foremost, stresses that we are customer service representatives. Our clients have needs, and our priority is to meet those needs. We pride ourselves on this philosophy and our clients express their appreciation of same. Second, we are privileged to be a part of this country's vision to restore and maintain its fragile ecosystems. We are honored to have been selected by various state and federal governmental agencies to provide comprehensive services of projects of national significance. Third, we enjoy the quality of life around us. As such we "give back" to our communities, staying involved in local outreach and charitable causes. Of our total staff, over 75% have been with the firm over 12 years. This is a testimony to the loyalty and dedication of our key personnel and their belief in our corporate philosophy and structure.

1. PROJECT MANAGER

Grady Timmins, P.E. is one of CEC's Project Engineers and shall serve as PROJECT MANAGER. He shall be authorized and responsible to act on behalf of CEC with respect to directing, coordinating, and administering all aspects of the services to be performed. Mr. Timmins will not be substituted without express permission of the County. Mr. Timmins has over 8 years of experience in project management, marine surveys, topographic and bathymetric surveys, marine structural design, underwater inspection, coastal site planning, construction administration, and environmental management and monitoring. Much of his experience involves design and development of marina facilities and coastal improvements including boat ramps, piers, seawalls, fixed and floating dock systems, navigation channels, beaches, and shoreline stabilization structures. Mr. Timmins duties shall include fieldwork, assist with the data reduction and calculations, coordinate the Project with the County's project manager, stakeholder and agency representation, construction administration, construction inspection, project certification. Mr. Timmins is currently managing multiple engineering, dredging and surveying projects under CEC's annual contract and project specific contracts for Charlotte County.

2. OTHER KEY PERSONNEL

The summary backgrounds of CEC's key personnel are described below. This will familiarize you with each individual and their related technical and managerial skills, as well as their individual professional experiences. Detailed resumes are provided in Section B. The key personnel will not be substituted without express permission of the County.

Richard Ewing is CEC's Vice-President of Surveying and Mapping and has over 37 years of experience in survey and mapping services for multiple public and private sectors. He is also responsible for overseeing and performing bathymetric surveys, hydrographic surveys, topographic surveys, and construction level surveys in support of our marine engineering projects. He specializes in providing services for municipal agencies, which include conducting tidal studies, land acquisition boundary surveys, and appraisal mapping using aerial photography. Mr. Ewing has actively worked on all of CEC's marine projects since 1998, responsible for establishing survey control; coordinating design, bid, and construction surveys; conducting pay quantity surveys during construction; and signing and sealing as-built surveys. He will serve as our Principal Surveyor, and manage the survey components and shall be in responsible charge of the fieldwork, data collection, data reduction, and survey reporting services.

Jeremy Herget is CEC's Managing Engineer and has over 13 years of engineering experience. His design engineering duties consist of preparing construction plans and technical specifications; design and repair plans for boat ramps, docks, boardwalks, fishing piers, kayak and launches; and environmental permitting. His field engineering responsibilities include marine surveying, sediment sampling, biological surveys and species identification, deployment of hydrographic instrumentation, coastal structure inspections including above and below water, and construction observations including hydraulic fill placement. The marine survey projects consist of bays, intracoastal waterways, inlets, shoals, navigation channels, beach profiling, and

hardbottom mapping. His environmental permitting projects include dredge and fill, coastal construction control, sea turtle and manatee protection, mitigation planning, and beach restoration and maintenance. His responsibilities shall include marine surveys, data collection, survey plans, construction administration support services, and client liaison.

Mark A. Kincaid is CEC's Vice-President of Engineering. He has over 36 years of professional experience in marine engineering, marine surveys, structural design and repair, and environmental restoration projects along the Gulf Coast. His field engineering responsibilities include marine surveying, sediment sampling, biological surveys and species identification, deployment of hydrographic instrumentation, marine structure inspections including above and below water, and construction observations. Mr. Kincaid has personally logged over a hundred hours diving for deploying current meters and tide gauges, inspections, and structural certifications. He shall serve as our Principal Engineer and oversee the Project.

Michael Poff is President of CEC and has over 31 years of professional experience providing Project Management, Marine Survey Services, Civil Design, Coastal Engineering, and Environmental Permitting throughout the Gulf region with a focus in Southwest Florida. Mr. Poff is well versed in County, State and Federal regulations and codes governing development. He has provided funding coordination and public education services for many local and State governments throughout the region. Mr. Poff is in responsible charge of a team of engineers, geologists, environmental scientists, marine surveyors, designers, technicians, and administrative personnel. His management responsibilities include client coordination, project funding coordination, public education, civic group representation, marketing, proposals, and contracts. He oversees the firm's QA-QC Plan. He has conducted navigation channel surveys, beach profiling, hardbottom mapping, and vibracore sampling. He has established personal relationships with the County's project managers, engineering supervisor, purchasing managers, and technical support staff. Mr. Poff has gained the trust of the local ambassadors along the waterfront communities as well as the Marine Advisory, Parks and Recreation, and Beaches and Shores Advisory Committees. He routinely attends community-wide, civic and homeowners association, and the advisory committee's monthly meetings to present the benefits and successes of the projects and to educate the stakeholders and public in general. He shall be responsible for quality assurance and quality control (qa-qc) of the Project and assist with the FEMA public assistance tasks.

Kyle Gullikson is a Marine Surveyor for Coastal Engineering Consultants and has 3 years of professional experience. His field work experience includes above and underwater structural inspections, gauge deployment surveys, topographic and bathymetric surveys, geotechnical and jet probe surveys for sand searches and dredge projects, seagrass and oyster mapping surveys, and construction observations including resident inspection services. Mr. Gullikson has supported the analysis of coastal processes through field data collection including marine surveying, biological surveying, underwater inspections, and deployment of hydrographic instrumentation to collect wind, wave, tide, and current data. He shall be responsible for data collection and setting up survey control. He shall assist with the volume calculations.

Mark Snowman is CEC's Senior Survey and Mapping Crew Chief. His background includes 10 years of surveying and mapping experience. He is very proficient in the use and care of conventional surveying equipment and GPS. Mr. Snowman has extensive experience in using Leica and Trimble RTK GPS receivers. He is knowledgeable in the practices and procedures of boundary and construction layout surveys. His responsibilities include the calibration and maintenance of field equipment, the collection and reduction of field data pertaining to all types of surveys including boundary, topographic, right-of-way, and bathymetric. He is also involved in QA/QC of the final products. Mr. Snowman is experienced in QA/QC of field data collection, monument recovery, referencing, and analysis, as well as topographic data collection. His surveying experience includes the location of Mean High Water along thirty-five miles of Gulf of Mexico shorelines in Collier, Lee, Charlotte, and Sarasota counties. In addition, he is responsible for the boundary surveys, record surveys, plot plans, and construction staking for large residential communities. Mr. Snowman shall be in responsible charge of survey control.

Vadim Alymov is CEC's Coastal Modeler with over 22 years of coastal modeling experience. His responsibilities include numerical modeling of wave refraction, wave dynamics, circulation, hurricane-induced storm surge and inundation, flushing, tidal and channel hydraulics, coastal sediment transport, shoreline change and beach erosion, prediction of performance of beach restoration and borrow area projects, development of sediment budgets, as well as compilation and analysis of wave, wind, tide, and survey data. His duties include borrow area and fill template design, project scheduling, cost estimating, design computations, technical reports, and maps, hydrological characterization, plans and specifications, environmental impact studies, and utilization of computer-assisted design software to prepare engineering and design documents. Dr. Alymov has extensive experience in computer programming using the Fortran and C programming languages. He has used a wide variety of numerical models including ADCIRC, CMS-Flow2D, CMS-Wave, CH3D, SBEACH, GENESIS, and HEC-RAS. His choice of computer software aimed at data processing, analysis and visualization include ArcGIS, Octave, MATLAB, Tecplot, Surfer, and HYPACK. Dr. Alymov's duties shall include hydrodynamic data reduction and channel infill and storm impact analyses and assessments.

Samantha Brasher is CEC's Senior Designer with over 18 years of technical experience. Her duties include computations and quantity estimates preparation; assisting with the preparation of permit drawings, preliminary design plans, and construction plans; utilizing survey data to prepare drawings including bathymetric contours, repair details, and typical cross-sections; and producing engineering drawings for marine structures including boat ramps, breakwaters, groins, jetties, bridges, piers, and docks. She has completed all of CEC's drawing sets for our major coastal zone projects in Florida for over 12 years. Her responsibilities shall include preparing survey drawings, volume calculations, and final deliverables.

3. CONSULTANTS

We are fully capable of completing the survey tasks for this Project **in a timely and cost-effective manner as CEC provides all the requested services with in-house personnel and equipment.**

4. STAFFING LEVELS AND POSITIONS PROPOSED

Proposed Staff and Positions

Grady V. Timmins, P.E. – *Project Manager/Project Engineer*
Richard J. Ewing, P.S.M. – ***Principal Surveyor and Mapper***
Jeremy B. Herget, P.E. – *Managing Engineer*
Mark A. Kincaid, P.E. – ***Principal Engineer/Senior Marine Engineer***
Michael T. Poff, P.E. – ***President/Principal Engineer***
Kyle M. Gullikson – *Marine Surveyor*
Mark Snowman – *Senior Survey and Mapping Crew Chief*
Vadim V. Alymov, Ph.D. – *Coastal Modeler*
Samantha D. Brasher – *Coastal Engineering Designer*

B. RESUMES

Presented on the following page is our Firm Organization Chart. Resumes and Licenses for the key personnel assigned to Post Hurricane Ian Bathymetric Surveys are presented on the proceeding pages.



**Charlotte County, Florida
RFP No. 2023000332**

POST HURRICANE IAN BATHYMETRIC SURVEYS

Officer-In-Charge

Michael T. Poff, P.E.

Technical Resources

Coastal Engineering Consultants, Inc.

Michael T. Poff, P.E. – ***Quality Assurance-Quality Control***

Mark A. Kincaid, P.E. – ***Principal Engineer***

Richard J. Ewing, P.S.M. – ***Principal Surveyor and Mapper***

Jeremy B. Herget, P.E. – ***Managing Engineer***

Grady V. Timmins, P.E. – ***Project Engineer/Project Manager***

Kyle M. Gullikson – ***Marine Surveyor***

Mark Snowman – ***Senior Surveying and Mapping Crew Chief***

Vadim V. Alymov, Ph.D. – ***Coastal Modeler***

Samantha D. Brasher – ***Senior Designer***

Karen J. Taylor – ***Administration***



**Coastal and Marine
Engineering**

**Environmental and
Geological Services**

**Land and Marine Survey
and Mapping**

Headquarters:

28421 Bonita Crossings Blvd.
Bonita Springs, FL 34135

Phone: (239) 643-2324
Fax: (239) 643-1143

Branch Office:

1211 North Range Ave., Suite E
Denham Springs, LA 70726

Phone: (225) 523-7403

Please visit our website:

www.coastalengineering.com

GRADY V. TIMMINS, P.E.

PROJECT ENGINEER

(239) 643-2324, Ext. 135 • gtimmins@cecifl.com

Qualifications Summary

Mr. Timmins is a Project Engineer for Coastal Engineering Consultants and has over 8 years of professional experience. His engineering duties consist of preparing design plans for boat ramps, docks, piers, shoreline stabilization, and ecosystem restoration; cost estimating; environmental permitting; and performing construction management and construction survey services.

His field responsibilities include marine surveying, natural resource surveying, underwater inspections, deployment of hydrographic instrumentation, marine structure inspections including above and below water, and construction observations. The marine survey projects consist of bays, intracoastal waterways, inlets, shoals, navigation channels, beach profiling, hardbottom mapping. His environmental permitting projects include parks and recreational facilities, dredge and fill, and erosion control.

Services performed include:

- Marina facilities design/repair
- Park and recreational facilities design
- Hydrographic/bathymetric/geotechnical/biological surveys
- Underwater structural inspections

Recent Project Experience

- Post-Nicole Storm Assessment, Charlotte County
- Post-Ian Storm Assessment, Charlotte County
- Post-Ian Recovery and Public Assistance, Lee County
- Post-Ian Storm Assessment, Bonita Springs
- Post-Ian Recovery and Public Assistance, Fort Myers Beach
- Upper Manatee River Bathymetric Survey, Manatee County
- Pre-Storm Bathymetric Surveys, Various, Charlotte County
- Crosley Estate, Braden River, Kingfish and Pen Bay Channels Bathymetric Surveys, Manatee County
- Northwest Port Charlotte Interior Maintenance Dredging, Charlotte County
- Gulf Cove Interior Maintenance Dredging, Charlotte County
- Alligator Creek Maintenance Dredging, Charlotte County
- Pirate Harbor Maintenance Dredging, Charlotte County
- Northeast Hurricane Bay Maintenance Dredging, Lee County
- Sunrise Channel Maintenance Dredging, Charlotte County
- Bayside Estates Maintenance Dredging, Lee County
- Post-Irma Recovery and Seawall Inspections, Fort Myers Beach
- Post-Irma Storm Assessment, Lee County
- Southwest Florida Regional Waterway Management, WCIND

Education

B.S. Civil Engineering, University of Central Florida, December 2013 – Cum Laude
Licensed Professional Engineer, State of Florida No. 86500, 2019

Professional Affiliations

USCG Licensed Captain, PADI Diver



**Coastal and Marine
Engineering**

**Environmental and
Geological Services**

**Land and Marine Survey
and Mapping**

Headquarters:

28421 Bonita Crossings Blvd.
Bonita Springs, FL 34135

Phone: (239) 643-2324

Fax: (239) 643-1143

Branch Office:

1211 North Range Ave., Suite E
Denham Springs, LA 70726

Phone: (225) 523-7403

Please visit our website:

www.coastalengineering.com

RICHARD J. EWING, P.S.M.

VICE PRESIDENT SURVEY AND MAPPING

(239) 643-2324 x 127 • (239) 285-3788 • rewing@cecifl.com

Qualifications Summary

Mr. Ewing is a Principal Professional Surveyor and Mapper and has over 37 years of surveying experience. He has provided and currently specializes in surveying services for municipal agencies which include State land boundary acquisition surveys, appraisal mapping using aerial photography, and hydrographic surveys. He is also active on private sector projects providing residential and commercial boundary and construction stake out services.

Mr. Ewing's specific survey responsibilities include the supervision of all land and hydrographic survey operations in Florida. He coordinates the scheduling of field crews and is the liaison between the field data collection process and the reduction of the survey data to produce a quality final product.

Mr. Ewing is proficient in the use of Global Positioning System Real Time Kinetics to perform marine survey services. He has personally surveyed numerous miles of shoreline with this equipment for the establishment of Erosion Control Line plats and Mean High Water line surveys which are involved with beach renourishment profiling and navigation channel design.

Mr. Ewing shall serve as the Principal Surveyor and supervise all survey services from the preparation of each task authorization to the successful completion of the project including coordination with the Town staff throughout the review process until final acceptance of the work.

Recent Project Experience

- Post-Nicole Storm Assessment, Charlotte County
- Post-Ian Storm Assessment, Charlotte County
- Post-Ian Recovery and Public Assistance, Lee County
- Post-Ian Storm Assessment, Bonita Springs
- Post-Ian Recovery and Public Assistance, Fort Myers Beach
- Upper Manatee River Bathymetric Survey, Manatee County
- Pre-Storm Bathymetric Surveys, Various, Charlotte County
- Gulf Cove Interior Maintenance Dredging, Charlotte County
- Alligator Creek Maintenance Dredging, Charlotte County
- Post-Irma Storm Assessment, Lee County
- Turner Beach Shoreline Stabilization-Beach Park Improvements, Sanibel
- Southwest FL Regional Waterway Management, WCIND
- Moorings Park Grande Lake, Collier County

Professional Registrations

Licensed Professional Surveyor and Mapper, 1994 State of Florida No. 5295

Licensed Professional Surveyor and Mapper, 2009 State of Louisiana No. 5016

Professional Affiliations

Florida Surveying and Mapping Society



**Coastal and Marine
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**Environmental and
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**Land and Marine Survey
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Headquarters:
28421 Bonita Crossings Blvd.
Bonita Springs, FL 34135

Phone: (239) 643-2324
Fax: (239) 643-1143

Branch Office:
1211 North Range Ave., Suite E
Denham Springs, LA 70726

Phone: (225) 523-7403

Please visit our website:
www.coastalengineering.com

JEREMY B. HERGET, P.E.

MANAGING ENGINEER

(239) 643-2324, Ext. 130 • jherget@cecifl.com

Qualifications Summary

Mr. Herget is a Managing Engineer and has over 14 years of professional experience in the private and public sector providing program and project management, marine engineering, civil engineering, environmental permitting, cost estimating, and land and marine surveying. His engineering experience includes parks and recreational facilities; waterfront development; aquatic ecosystem restoration alternative formulation; design and repair design of coastal structures; preparing construction plans and technical specifications; planning sediment fill, borrow area, and channel maintenance dredging; and wetland, marsh, beach profile, and inlet cross-section comparative analyses.

Services performed include:

- Marina facilities design/repair
- Park and recreational facilities design/repair
- Shoreline armoring design/repair
- Underwater structural inspections
- Tide gauge deployment and recovery
- Hydrographic/bathymetric/hydraulic surveys
- Geophysical surveys and sediment sampling
- Biological surveys and species identification.

Mr. Herget's current responsibilities include preparing construction plans and technical specifications; cost estimating design and repair design; environmental permitting; biological surveys; deployment of hydrographic instrumentation; marine structure inspections including above and below water; construction observations; and marine surveys.

Recent Project Experience

- Post-Nicole Storm Assessment, Charlotte County
- Post-Ian Storm Assessment, Charlotte County
- Post-Ian Recovery and Public Assistance, Lee County
- Post-Ian Storm Assessment, Bonita Springs
- Post-Ian Recovery and Public Assistance, Fort Myers Beach
- Pre-Storm Bathymetric Surveys, Various, Charlotte County
- Post-Irma Recovery and Seawall Inspections, Fort Myers Beach
- Post-Irma Storm Assessment, Lee County
- Post Irma Storm Assessments, Charlotte County
- Estero Island Beach Nourishment, Fort Myers Beach
- Lynn Hall Park Boardwalks and ADA Dune Walkovers, Lee County
- Punta Rassa Boat Ramp Renovation, Lee County
- Turner Beach Shoreline Stabilization-Beach Park Improvements, City of Sanibel

Education

BS Ocean Engineering, Florida Atlantic University, April 2009
Licensed Professional Engineer, State of Florida No. 79352, 2015
FEMA National Incident Management Systems Training
USACE Risk Management Training

Professional Affiliations

Society of Naval Architects and Marine Engineers
PADI Diver



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www.coastalengineering.com

MARK A. KINCAID, P.E.

VICE PRESIDENT OF ENGINEERING

(239) 260-3776 • mkincaid@cecifl.com

Qualifications Summary

Mr. Kincaid is a Principal Engineer and has over 36 years of professional experience providing project management, marine engineering, marine structure design and repair plans, subaqueous utilities, marine surveying and environmental permitting. He is currently the Principal Engineer on the Town of Fort Myers Beach contract and provides client and agency liaison, contact administration, and project oversight. His marine engineering experience includes waterway management; channel marker plans; maintenance dredging design, permitting, mitigation and monitoring; mooring field design, permitting, anchor testing, construction management, and post-construction monitoring and maintenance; and water control structure and bridge inspections. His work has spanned a variety of engineering services, including:

- Underwater structural inspections
- Geophysical surveys and sediment sampling
- Marina facilities design/repair
- Park and recreational facilities design/repair
- Shoreline armoring structures design/repair
- Environmental permitting and funding technical support
- Gauge deployment surveys (currents, tides, waves)
- Hydrographic and bathymetric surveys.

Mr. Kincaid's design engineering duties consist of preparing construction plans and technical specifications; cost estimating; structure design; and coordinating permit agency requirements. His field engineering responsibilities include marine surveying, underwater inspections, biological surveys and species identification, deployment of hydrographic instrumentation, marine structure inspections including above and below water, and construction oversight. The marine survey projects consist of bays, intracoastal waterways, inlets, shoals, navigation channels, and beach profiling.

Recent Project Experience

- Post Hurricane Ian Recovery and Public Assistance, Fort Myers Beach
- Town Dune Walkover Replacement, Fort Myers Beach
- Matanzas Harbor Mooring Field, Fort Myers Beach
- Matanzas Harbor Dinghy Dock, Fort Myers Beach
- Newton Park Seawall Improvements, Fort Myers Beach
- Post-Irma Recovery and Seawall Inspections, Fort Myers Beach
- Estero Island Beach Nourishment, Fort Myers Beach
- Lynn Hall Park Boardwalks and ADA Dune Walkovers, Lee County
- Punta Rassa Boat Ramp Renovation, Lee County
- Southwest Florida Regional Waterway Management, WCIND
- Turner Beach Shoreline Stabilization-Beach Park Improvements, City of Sanibel

Education

B.S. Ocean Engineering, Florida Atlantic University, 1985

A.S. Oceanographic Technology, Florida Institute of Technology, 1982

Licensed Professional Engineer, State of Florida No. 58654

Professional Affiliations

Florida Engineering Society

Association of Diving Contractors

American Society of Civil Engineers

US Coast Guard Master -100 tons

PADI Master Diver

Organization for Boating Access



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www.coastalengineering.com

MICHAEL T. POFF, P.E.

PRESIDENT

239 643 2324, EXT. 126 • mpoff@cecifl.com

Qualifications Summary

Mr. Poff has over 31 years of professional experience providing Project Management, Coastal and Marine Engineering, Environmental Permitting, and Marine Survey Services throughout the Gulf region. Mr. Poff is well versed in county, state, and federal regulations and codes governing development. He has provided funding coordination and public education services for many local and state governments throughout the region. Mr. Poff is in responsible charge of a team of engineers, geologists, environmental scientists, marine surveyors, designers, technicians and administrative personnel. His management responsibilities include client coordination, project funding coordination, public education, civic group representation, marketing, proposals, and contracts. He oversees the firm's quality management plan and performs quality assurance – quality control for project deliverables.

Mr. Poff oversees the design, permitting and construction of waterfront development projects. His specific duties include boat ramp repairs, marina facility design, boat slip layout, mooring fields, shoreline armoring, endangered species protection plans, and environmental mitigation. His specific engineering responsibilities include construction plans and specifications, contract administration, contractor coordination and negotiation, cost estimating, pay requests and change orders, permit coordination, funding assistance coordination, cost to benefit economic analyses, and construction observations. His design experience includes beach, dune, and marsh fill layouts; borrow area geometry; inlet and navigation channel dredge templates; channel markers; coastal structures such as groins, jetties and revetments; beachfront stormwater drainage; and dune vegetation. Mr. Poff has conducted and provided control consisting of navigation channels, beach profiling, hardbottom mapping, and vibracore sampling. His environmental permitting projects include dredge and fill; coastal construction control; sea turtle, shorebird, smalltooth sawfish, and manatee protection; mitigation planning, and ecosystem restoration.

Recent Project Experience

- Post-Nicole Storm Assessment, Charlotte County
- Post-Ian Storm Assessment, Charlotte County
- Post-Ian Recovery and Public Assistance, Lee County
- Post-Ian Storm Assessment, Bonita Springs
- Post-Ian Recovery and Public Assistance, Fort Myers Beach
- Estero Island Beach Nourishment, Fort Myers Beach
- Estero Island Annual Beach Monitoring, Fort Myers Beach
- Post-Irma Recovery and Seawall Inspections, Fort Myers Beach
- Newton Park Seawall Improvements, Fort Myers Beach
- Southwest Florida Regional Waterway Management, WCIND
- Turner Beach Shoreline Stabilization-Beach Park Improvements, City of Sanibel

Education

B.S. Civil Engineering, University of Delaware, 1988

Environmental Law, Stockton State College, New Jersey 1990 to 1991

M.S. Coastal Engineering, University of Delaware, 1993

Licensed Professional Engineer, State of Florida No. 48218, 1994

Professional Affiliations

American Society of Civil Engineers

American Shore and Beach Preservation Association

Florida Shore and Beach Preservation Association

Florida Engineering Society / Florida Institute of Consulting Engineers Leadership Institute



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KYLE M. GULLIKSON

MARINE SURVEYOR

(239) 643-2324, ext. 115 • kgullikson@cecifl.com

Qualifications Summary

Mr. Gullikson is a Marine Surveyor for Coastal Engineering Consultants and has 3 years of professional experience. His field work experience includes above and underwater structural inspections, gauge deployment surveys, topographic and bathymetric surveys, geotechnical and jet probe surveys for sand searches and dredge projects, seagrass and oyster mapping surveys, and construction observations including resident inspection services.

Mr. Gullikson has supported the analysis of coastal processes through field data collection including marine surveying, biological surveying, underwater inspections, and deployment of hydrographic instrumentation to collect wind, wave, tide, and current data.

Recent Project Experience

- Post-Nicole Storm Assessment, Charlotte County
- Post-Ian Storm Assessment, Charlotte County
- Post-Ian Recovery and Public Assistance, Lee County
- Post-Ian Storm Assessment, Bonita Springs
- Post-Ian Recovery and Public Assistance, Fort Myers Beach
- Upper Manatee River Bathymetric Survey, Manatee County
- Pre-Storm Bathymetric Surveys, Various, Charlotte County
- Northwest Port Charlotte Interior Maintenance Dredging, Charlotte County
- Estero Island Annual Beach Monitoring, Fort Myers Beach
- Pine Island Commercial Marina Maintenance Dredging, Lee County
- Bayside Estates Maintenance Dredging, Lee County
- Northeast Hurricane Bay Maintenance Dredging, Lee County
- Old Pelican Bay Maintenance Dredging, Lee County
- Punta Rassa Boat Ramp Renovation and Maintenance Dredging, Lee County
- Southwest Florida Regional Waterway Management, WCIND
- Matanzas Pass Maintenance Dredging, USACE/Cavache Dredging
- Lovers Key Beach Nourishment Sand Search, Lee County
- 10-Year Beach and Inlet Management Plan, Charlotte County

Education

B.S. Ocean Engineering, Florida Institute of Technology, 2019

Professional Affiliations

Licensed Engineering Intern, 2020

PADI Rescue Diver



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28421 Bonita Crossings Blvd.
Bonita Springs, FL 34135

Phone: (239) 643-2324

Fax: (239) 643-1143

Branch Office:

1211 North Range Ave., Suite E
Denham Springs, LA 70726

Phone: (225) 523-7403

Please visit our website:

www.coastalengineering.com

MARK SNOWMAN

SENIOR SURVEYING AND MAPPING CREW CHIEF

(239) 643-2324 x 112 • (239) 321-1864 • msnowman@cecifl.com

Qualifications Summary

Mr. Snowman's background includes 10 years of surveying and mapping experience. He is very proficient in the use and care of conventional surveying equipment and GPS. Mr. Snowman has extensive experience in using Leica and Trimble RTK GPS receivers. He is knowledgeable in the practices and procedures of boundary and construction layout surveys. His responsibilities include the calibration and maintenance of field equipment, the collection and reduction of field data pertaining to all types of surveys including boundary, topographic, right-of-way, and bathymetric. He is also involved in QA/QC of the final products.

Mr. Snowman is experienced in QA/QC of field data collection, monument recovery, referencing, and analysis, as well as topographic data collection. His surveying experience includes the location of Mean High Water along thirty-five miles of Gulf of Mexico shorelines in Collier, Lee, Charlotte, and Sarasota counties. In addition, he is responsible for the boundary surveys, record surveys, plot plans, and construction staking for large residential communities.

Software experience includes:

- Proficient in various releases of AutoCAD including Civil 3D
- Trimble Business Center software
- Leica Infinity Software

Recent Project Experience

- Post-Ian Recovery and Public Assistance, Lee County
- Upper Manatee River Bathymetric Survey, Manatee County
- Pre-Storm Bathymetric Surveys, Various, Charlotte County
- Crosley Estate, Braden River, Kingfish and Pen Bay Channels Bathymetric Surveys, Manatee County
- Estero Island Annual Beach Monitoring, Fort Myers Beach
- Punta Rassa Boat Ramp Maintenance Dredging, Lee County
- Lovers Key and Bonita Beach Annual Monitoring, Lee County
- Manasota Key Beach Annual Monitoring, Charlotte County
- Southwest Florida Regional Waterway Management, WCIND
- Placida Boat Ramp Expansion Project, Charlotte County
- Ainger Creek Boat Ramp Improvement Project, Charlotte County
- Turner Beach Shoreline Stabilization-Beach Park Improvements, Sanibel
- City Gate / ULINE, Collier County
- Moorings Park Grande Lake, Collier County

Education/Certifications

A.A.S. Surveying Technology, Paul Smith's College, NY, 1997-1999



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Fax: (239) 643-1143

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Phone: (225) 523-7403

Please visit our website:

www.coastalengineering.com

VADIM V. ALYMOV, Ph.D.

COASTAL MODELER

(239) 643-2324, EXT. 151 • valymov@cecifl.com

Qualifications Summary

Dr. Alymov is a Coastal Modeler and has 22 years of coastal modeling experience. His responsibilities include numerical modeling of hurricane-induced storm surge and inundation, flushing, tidal and channel hydraulics, wave refraction, wave dynamics, circulation, sediment transport, shoreline change and beach erosion. He employs the models to inform decisions on development of alternatives and to predict alternatives performance, develop sediment budgets, and to compare and contrast with and without project simulations to quantify benefits over the desired period of analysis.

His experience includes borrow area and fill template design, cost estimating, design computations, technical reports, mapping, hydrological characterization, plans and specifications, environmental impact studies, and utilization of computer-assisted and design software to prepare engineering and design documents.

Dr. Alymov's duties include coastal processes analyses; hydrodynamic data collection and analyses; numerical model set-up, calibration, and validation; plan formulation; ecosystem design; coastal structure design; modeling of alternatives; and project performance assessments.

Dr. Alymov has extensive experience in computer programming using the Fortran and C programming languages. He has used a wide variety of numerical models including ADCIRC, CMS-Flow2D, CMS-Wave, CH3D, SBEACH, GENESIS, and HEC-RAS. His choice of computer software aimed at data processing, analysis and visualization include ArcGIS, Octave, MATLAB, Tecplot, Surfer, and HYPACK.

Recent Project Experience

- Estero Island Beach Nourishment, Fort Myers Beach
- Estero Island FEMA Emergency Berm Final Design, Fort Myers Beach
- Estero Island Annual Beach Monitoring, Fort Myers Beach
- Matanzas Pass Maintenance Dredging, USACE/Cavache Dredging
- Lovers Key Beach Nourishment Sand Search, Lee County
- Post Hurricane Ian Recovery and Public Assistance, Fort Myers Beach
- Miscellaneous Channel Maintenance Dredging, Lee County
- Southwest Florida Regional Waterway Management, WCIND
- Warner's Bayou Shoreline Stabilization Project, Manatee County
- Manasota Key Beach Restoration and Mitigation Reef Project, Charlotte County
- Charlotte County 10-Year Beach and Inlet Management Plan, Charlotte County
- Coquina Channel Dredging and Seagrass Mitigation, Manatee County

Education

B.S. in Applied Mathematics, Altai State University, Russia, 1996

M.S. in Coastal Engineering, University of Florida, 1999

Ph.D. in Coastal Engineering, University of Florida, 2005

Professional Affiliations

American Society of Civil Engineers



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Phone: (239) 643-2324
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Denham Springs, LA 70726

Phone: (225) 523-7403

Please visit our website:
www.coastalengineering.com

SAMANTHA D. BRASHER

COASTAL ENGINEERING DESIGNER

(239) 643-2324, EXT. 129 • sbrasher@cecifl.com

Qualifications Summary

Mrs. Brasher has over 18 years of technical experience and presently holds the position of Senior Designer. Her responsibilities include calculating design data; analysis of reports, maps, drawings, tests and aerial photographs to plan projects; computations and quantity estimates preparation; preparing layouts; assisting with the preparation of detailed plans and specifications, reports, and studies for engineering and environmental projects.

She provides technical support to our engineering and surveying managers; produces engineering drawings for marine structures including boat ramps, seawalls, revetments, breakwaters, groins, jetties, bridges, piers, and docks; utilizes survey data to prepare drawings including bathymetric contours, dredge templates, and channel cross-sections; and is a trainer and mentor to other staff.

Mrs. Brasher has extensive experience in AutoCAD Civil 3D using surfaces, alignments, profile and section views, volume reports, and raster imaging. She also has experience in Trimble Sketchup preparing 3D renderings of project sites.

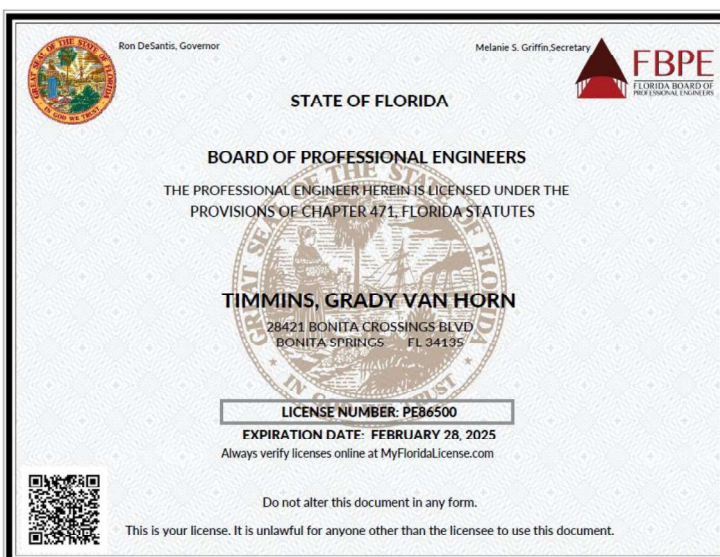
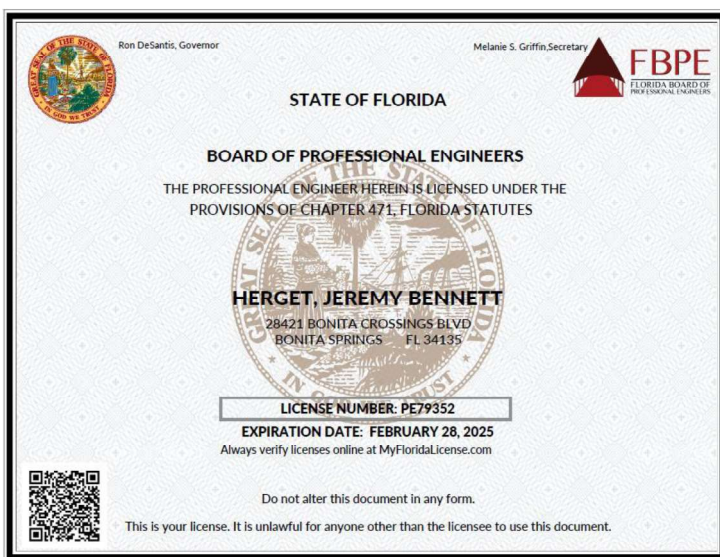
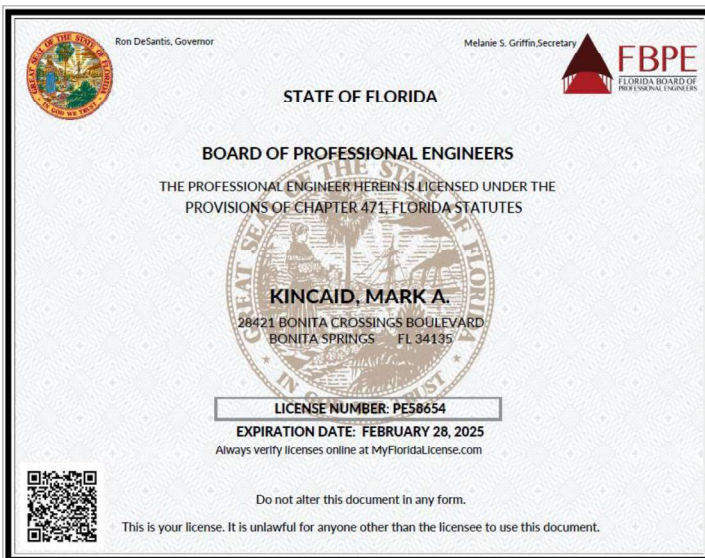
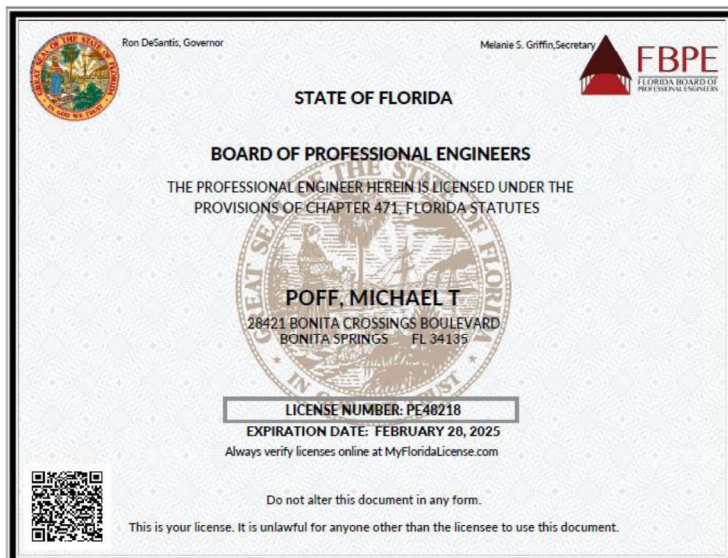
Project Experience

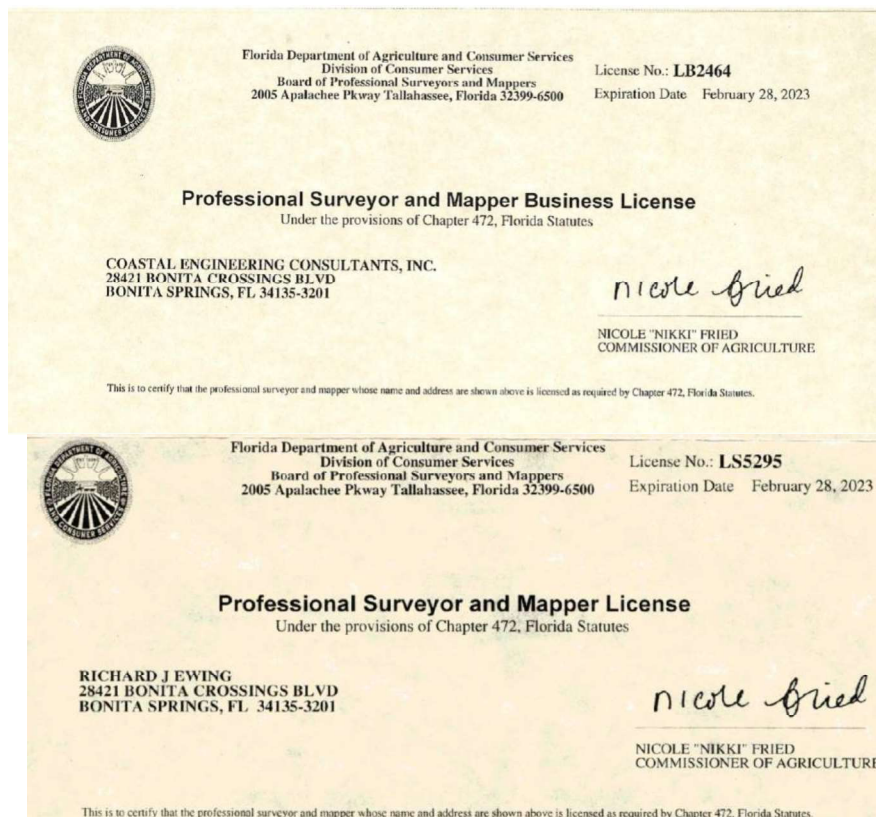
- Crosley Estate, Braden River, Kingfish and Pen Bay Channels Bathymetric Surveys, Manatee County
- Pre-Storm Bathymetric Surveys, Various, Charlotte County
- Northwest Port Charlotte Interior Maintenance Dredging, Charlotte County
- Gulf Cove Interior Maintenance Dredging, Charlotte County
- Alligator Creek Maintenance Dredging, Charlotte County
- Pirate Harbor Maintenance Dredging, Charlotte County
- Northeast Hurricane Bay Maintenance Dredging, Lee County
- Sunrise Channel Maintenance Dredging, Charlotte County
- Bayside Estates Maintenance Dredging, Lee County
- Post-Irma Recovery Projects, Fort Myers Beach
- Placida Boat Ramp Expansion Project, Charlotte County
- Punta Rassa Boat Ramp Renovation, Lee County
- Pine Island Commercial Marina Renovation, Lee County
- Ainger Creek Boat Ramp Improvement Project, Charlotte County
- Alva Boat Ramp Renovation, Lee County
- South Estero Bay Waterway Dredging, Lee County
- SFWMD Canal Conveyance Program, Glades & Hendry Counties
- Ten-Mile Canal Sediment Removal Project, Lee County
- New Pass Restoration Dredging, Lee County
- Blind Pass Dredging, Captiva-Sanibel
- WCIND Regional Inlet and Waterway Management, Southwest FL

Education

Drafting and Design Technology, Pasco-Hernando Community College, 1999-2001

Presented below are the current copies of CEC's professional licenses and certifications.





Please note the survey licenses above are renewed and active. CEC is awaiting the hard copy licenses at which time can be provided to you. Below is proof of renewal.



RICHARD J EWING

28421 BONITA CROSSINGS BLVD, BONITA SPRINGS, FL 34135-3201

[Complaints 0](#)
[Print](#)

License Type	License#	Issued	Expires	Status
Surveyor and Mapper	LS5295	01/05/94	02/28/25	Active

SECTION II
PROPOSED MANAGEMENT PLAN

II. PROPOSED MANAGEMENT PLAN

A. TEAM ORGANIZATION

1. ASSESSMENT PHASE

CEC shall provide the County technical assistance in support of requesting FEMA post-storm recovery public assistance to address impacts from Hurricane Ian. Tasks include computing background infilling rates, infilling between the last available historic survey and post-Ian survey, and storm related infilling to quantify incident related damages. CEC shall prepare an engineering assessment report to include Project Location, History and Performance; Engineering Design Summary; Environmental Permit and Compliance History; Details of Initial Construction and Maintenance; Hurricane Ian Storm Impact Assessment; Details of Construction Methods to Repair the Project; Outline of Permits and Regulatory Authorities that will be required to Repair the Project; Drawings depicting as-built, monitoring, and post-storm conditions; and Opinion of Probable Construction Cost to Repair the Project.

2. PLANNING PHASE

Specific to the County's request for proposal, this section is provided specific to the survey plan. Otherwise there is no Planning Phase associated with the scope of work.

CEC shall conduct a detailed bathymetric survey of the Project channels at 50-ft stations which matches the interval utilized for the previous dredging projects. Further, the surveys shall follow the historic baselines extending a minimum of 100 feet beyond the permitted limits of dredging. CEC shall establish benchmarks for each survey area. In order to achieve the level of precision proposed for this survey, CEC will deploy a land-based RTK GPS reference station. The system will transmit corrections to a vessel-mounted RTK GPS system resulting in accurate vessel positioning as well as real-time water level determination at the survey vessel.

Field operations will be conducted by two-man CEC survey team using a survey vessel outfitted with the following survey instrumentation (or equivalent): Trimble RTK GPS, HYPACK navigation and data-logging computer system, and CEE ECHO digital survey fathometer with a narrow beam 200 kHz. transducer. Prior to performing any survey work the instrumentation to be installed onboard the vessel will be evaluated and calibrated by CEC's in-house staff. Once on-site instrumentation will be calibrated and tuned for site conditions. Standard calibrations that will be performed on-site will include navigation control checks and bar checks. The surveys will be conducted in accordance with U.S. Army Corps of Engineers Hydrographic Surveying Manual EM-1110-2-100 and meet State of Florida standards including the requirements set forth in Chapter 5J-17 F.A.C.

All survey units will be in feet and referenced horizontally to the Florida State Plane Coordinate System, West Zone (NAD83/07 Florida West Zone). Sounding data will be feet referenced vertically, in real-time utilizing the RTK GPS installed onboard the vessel, to the NAVD88 vertical datum.

Data will be collected continuously along each cross-section. Utilizing the surveyed cross-sections and proposed dredge templates, dredge volumes will be computed within the dredge template to the proposed dredge depth. Existing channel markers will be located within the survey areas.

Survey drawings of the plan views with color contours, cross-sections, and potential dredge volumes will be prepared for each channel/canal segment. Cross-sections will show available historic data.

B. ROLES AND RESPONSIBILITIES OF PARTICIPANTS

Grady Timmins CEC's Project Engineer shall serve as Project Manager and be in responsible charge of directing, coordinating, and administering all aspects of the services to be performed.

Richard Ewing CEC's Principal Surveyor will manage the survey components. He shall be in responsible charge of the fieldwork, data collection, data reduction, and survey reporting services.

Jeremy Herget CEC's Managing Engineer shall be responsible for marine surveys and data collection.

Mark A. Kincaid CEC's Principal Engineer will oversee the Project.

Michael Poff CEC's Principal Engineer shall be responsible for quality assurance and quality control (qa-qc) and assist with the FEMA public assistance tasks.

Kyle Gullikson CEC's Marine Surveyor shall be responsible for data collection, setting up survey control, and assist with the volume calculations.

Mark Snowman CEC's Senior Survey and Mapping Crew Chief shall be in responsible charge of survey control.

Vadim Alymov CEC's Coastal Modeler shall be responsible for data reduction and channel infill and storm impact analyses and assessments.

Samantha Brasher CEC's Senior Designer shall be responsible for preparing survey drawings, volume calculations, and final deliverables.

SECTION III
PREVIOUS TEAM EXPERIENCE

III. PREVIOUS EXPERIENCE OF TEAM

A. RELEVANT WORK HISTORY WITH GOVERNMENT FACILITIES AND HARD BID METHOD

1. GOVERNMENT FACILITIES

Government Contracting: CEC is currently on annual/continuing contracts for marine related projects with the following Federal, State, Regional, and Local agencies:

Federal:

USACE Galveston, Mobile, and New York Districts (prime, Marine/Coastal/Survey/Ecosystem Restoration, 2019–current)

State:

State of Louisiana (prime, Coastal/Geotechnical/Surveying/Ecosystem Restoration, 2009–current)

Regional:

West Coast Inland Navigation District (prime, Marine/Coastal/Survey/Environmental, 2003–current)

Municipal:

Manatee County (prime, Marine/Coastal/Survey/Environmental, 2018–current)

Sarasota County (prime, Marine/Coastal/Survey/Environmental, 2011–current)

Charlotte County (prime, Marine/Coastal/Survey/Environmental, 2001–current)

Lee County (prime, Marine/Coastal/Survey/Environmental, 2001–current)

Town of Ft. Myers Beach (prime, Marine/Coastal/Survey/Environmental, 1999–current)

City of Marco Island (prime, Marine/Coastal/Civil/Survey/Environmental, 2010–current)

CEC has assisted many government clients obtain funding for their marine related and environmental restoration projects from a variety of sources. For Cape Coral, we assisted the staff prepare and submit grants to the WCIND and FFWCC for the design and permitting of boat ramp improvements at the D&D property. For Ft. Myers Beach, we assisted the staff prepare and submit grants to the WCIND and FFWCC for the initial construction of the Mooring Field and initial purchase of the Sewage Pump-out Boat, respectively. We have also assisted staff apply for and receive funding for mooring system maintenance, channel marker maintenance, and installation of the special purpose buoys.

We have been recognized by the ASCE for two successful Florida beach projects, receiving two Project of the Year Awards and by ASBPA for one Louisiana barrier shoreline ecosystem restoration project. Our principals and project managers have received numerous professional and civic awards for outstanding service to the community and state. We pride ourselves on providing the highest level of professional services and unparalleled customer service. We strive to improve the quality of life for our communities, neighbors, families, and each other.

Hydrographic Surveys: CEC has provided decades of professional consulting experience to local, regional, and state governments. Below is a summary of bathymetric surveying and maintenance dredging projects as they relate to this Project.

- ❖ Northwest Port Charlotte Access Channel Maintenance Dredging: Design, Permit and Construction Management; Charlotte County
- ❖ Gulf Cove Access and Connector Channel Dredging: Design, Permit and Construction Management; Charlotte County
- ❖ Pirate Harbor Entrance Channel Dredging and Seagrass Mitigation: Design, Permit and Construction Management; Charlotte County
- ❖ Alligator Creek Maintenance Dredging: Design, Permit and Construction Management; Charlotte County
- ❖ Old Pelican Bay Maintenance Dredging: Design, Permit and Construction Management; Lee County
- ❖ Bayside Estates Maintenance Dredging: Design, Permit and Construction Management; Lee County
- ❖ Northeast Hurricane Bay Maintenance Dredging: Design, Permit and Construction Management; Lee County
- ❖ Spring Creek Dredging: Design, Permit and Construction Management; Lee County
- ❖ Broadway, Hogue and Intrepid Waters Channel Maintenance Dredging: Design, Permit and Construction Management; Lee County
- ❖ Manatee River Dredging: Design, Permit and Construction Management; Manatee County
- ❖ Coquina Channel Dredging: Design, Permit and Construction Management; Manatee County
- ❖ Upper Manatee River Condition Survey; Bathymetric Survey; Manatee County
- ❖ Collier Bay Channel Maintenance Dredging: Design, Permit and Construction Management; Collier County
- ❖ Faka Union Bay Condition Survey: Bathymetric Survey; Collier County
- ❖ Capri Pass Condition Survey: Bathymetric Survey; Collier County
- ❖ Isles of Capri Marina Condition Survey: Bathymetric Survey; Collier County

2. COMPETITIVE BID PROCESS

CEC is very familiar with the competitive bid process; a vast majority of our construction projects are competitively bid. CEC assists private and public clients develop plans and specifications, for both small- and large-scale projects. Variables such as contract time, production rates, liquidated damages, allowable working hours, number of days on-site, etc. are evaluated with the owner and adjusted based on the owner's desired project quality, cost and duration.

During the solicitation process, CEC answers requests for additional information from perspective bidders. CEC works with the owner to issue addendums, as needed, to provide additional information or address ambiguities. Once bids are received, CEC evaluates each bidder's submittal package to determine if they are qualified and responsive. CEC consults the owner and renders a bid recommendation.

Depending on the owner's desired level of involvement in the construction process, CEC can either act as a supporting role or administer the project on behalf of the owner. CEC's offers owners construction services including; construction administration and observations, resident inspectors, and construction stakeout / acceptance surveys, and project certifications and closeout.

Pirate Harbor Entrance Channel Dredging and Seagrass Mitigation; Charlotte County

CEC was hired by Charlotte County to design, permit and oversee the construction of the Pirate Harbor Entrance Channel Dredging and Seagrass Mitigation Project. The Project included dredging approximately 4,000 CY from the entrance channel, transplanting approximately 0.19 acres of seagrass from the permitted dredge limits to two mitigation sites, and placing sediment bags over 0.40 acres of bay bottom to raise the bottom elevation of the two mitigation sites.



Charlotte County chose to solicit bids to complete the construction of the Project. CEC worked with the County to develop plans and specifications for inclusion in the County's solicitation package. CEC reviewed the four (4) bids received through the competitive bid process and rendered a bid recommendation. CEC provided **construction administration, construction stake-out, pre-and post-construction surveys**, and resident inspections (Environmental Compliance Officer) throughout the dredging and mitigation work. CEC supported the County in providing construction administration services and project certifications. CEC worked with the County, dredge contractor and seagrass subcontractor to complete the Project in accordance with the contract documents.

B. PROPERTY STORM ASSESSMENTS

Following significant storm events, CEC is prompt in mobilizing to the impacted area to collect data and document conditions post-storm. As needed, data is collected by conventional survey methods, witness testimony, photographs, aerial imagery, visual observations, gauges and instrumentation, and structural inspections. Collecting multiple forms of data allows CEC to better understand the storm impacts and quantify the damage.

Early in the recovery process, CEC engages State and Federal representatives to confirm funding eligibility and the application process to secure FEMA Category A, B and G funding and/or FDEP post-disaster recovery funds. CEC is familiar with the required reporting to request post-storm public assistance and works with owner's to ensure the applications are submitted in a timely manner.



CEC provides any technical assistance required by State and Federal representatives during the application review period. This may include site visits with representatives or addressing requests for additional information.

Most recently, CEC is working with Lee County, City of Bonita Springs, Town of Fort Myers Beach, and Charlotte County to secure FEMA funding to address impacts from Hurricane Ian. In total CEC has successfully assisted clients obtain federal funding for five repair projects, and is actively working on seven repair projects for local and state governments in the Gulf region.

C. PERMITTING EXPERIENCE

CEC is well known for successful time and cost-effective permit coordination. The primary steps in minimizing permitting time are to have a pre-application meeting with the reviewing agencies and subsequent follow-up meetings at issuance of their requests for additional information. Meeting face to face with the reviewing agency personnel allows us to openly discuss the proposed project and hear and see their reactions. We identify potential problems immediately, which enable us to advise our clients on how to proceed. We also believe there is considerable benefit to be gained by having the reviewing agency staff attend public input meetings or at least have the “ambassadors” attend the agency meetings. This allows the reviewers to put a “face” with the “name” and gain a better understanding of the public’s concerns.

Our key personnel have worked with the various state and federal agencies for a variety of marine related projects. Beyond the less-than-clear-regulations, we recognize the critical human elements of trust, judgment, and discretion in the permitting process. For major projects we establish a permitting team to improve the depth of permitting expertise to most effectively work with the regulatory agencies consistent with regulations. The permit team meets routinely and to track the permit process

and proactively manage the work to obtain the desired permit on time and within budget. We expeditiously prepare applications and/or Request for Additional Information “RAI” responses, hold face to face meetings with our clients to review and finalize, then send to the agencies. When action by an agency staff member is needed, we strive to persistently but graciously, prompt the needed action via emails, phone calls, or a personal appearance in the agency office, where we’ll appeal up the chain of command until we receive an acceptable or reasonable agency response. Ultimately, many projects will boil down to differences in judgment and opinion between the applicant and agency staff. Our approach fosters understanding, trust, favorable discretion in the permitting process, and ultimately favorable final agency action.

For key projects, we set up pre-application meetings to present the proposed plans and get their feedback. Then we prepare the permit application and documents and have a pre-submittal meeting to review the draft deliverables and again get their feedback. After submittal, we meet for a third time to try and iron out issues prior to a RAI being issued. It is critical the client participate in one or more of these key meetings to demonstrate the commitment of the local sponsor. Further, we conduct joint field work with their biologists to confirm resource mapping. The cooperation of DEP staff is extremely professional in nature. While the lack of a federal time clock still inhibits some processes from moving forward timely, CEC remains proactive with the local offices encouraging them to attend construction meetings and site visits on dredge and fill projects to educate their staff on coastal and marine projects. This fosters good will and we believe aids in our projects receiving prompt attention.

We perceive that one of our strengths is our personal relationships with the agency staff. We can rely on these relationships to save time during the permitting process as the reviewers trust our work product and have a comfort level that projects will be constructed using Best Management Practices. Another technique is to submit the local and state/federal permits concurrently. We have successfully processed many permits via concurrent agency submittals to reduce overall permitting time.

D. ACCURATE PROJECT ESTIMATES

CEC understands the importance of preparing an accurate project estimate as it allows the client a means to budget and plan accordingly for project implementation.

CEC actively searches for, collects, and reviews bid tabs from local marine construction projects to obtain the most current unit pricing. Additionally, our Project Managers communicate routinely with contractors and apply industry knowledge to stay aware of issues and constraints that affect cost. In developing project estimates, CEC considers construction access, construction workload, material availability, mobilization, trucking costs, fuel costs, and site experience or familiarity.

Upon client review, if such estimate exceeds the client’s budget and jeopardizes completion of the Project, we shall, in conjunction with the client, evaluate the design, identify areas to be changed to reduce costs, and/or provide technical support data to justify increasing the budget.

SECTION IV
PROJECT CONTROL

IV. PROJECT CONTROL

INTRODUCTION

We have been contracted by federal and state government agencies, private industry, and a variety of industrial/commercial entities to perform all types of projects. We have established a track record of client satisfaction by going beyond what our client's request of us, recommending the actions necessary, and advising clients when they have asked for services that are not necessary. We often are able to apply our expertise to accomplish client goals through innovative solutions. We consistently achieve high quality work with exceptional cost and schedule controls by developing and maintaining a highly experienced professional staff and applying our **Quality Management Plan**.

Team Leaders

Project Manager: Grady V. Timmins, P.E. is one of CEC's Project Engineers with over 8 years of experience in project management, marine surveys, topographic and bathymetric surveys, marine structural design, underwater inspection, coastal site planning, construction administration, and environmental management and monitoring. He shall be responsible for directing, coordinating, and administering all aspects of the services to be performed.

Survey and Mapping Principal - As Vice President and Manager of Surveying and Mapping, Mr. Richard J. Ewing, P.S.M. brings a wide array of expertise to lead our survey staff. Mr. Ewing has Professional Surveying and Mapping experience for over 37 years. Mr. Ewing specializes in surveying services for municipal agencies, which include land acquisition boundary surveys, appraisal mapping using aerial photography, and hydrographic surveys. Mr. Ewing's project experience also includes construction stake-out services. He shall supervise all survey services including coordination with local government staff throughout the review process until final acceptance of the work.

CADD Manager – Mrs. Samantha Brasher presently holds the position of Senior Designer with over 18 years of experience in CADD designing for coastal and ecosystem related projects. Her responsibilities include calculating design data, preparing layouts, and assisting with the preparation of detailed plans and specifications; utilizing survey data to prepare detailed repair plans; and producing engineering drawings for marine structures including boat ramps, access piers, and docks all with ADA access in mind. She has also prepared drawings for infrastructure location surveys and as-builts depicting plan, profile, and depth of cover. She shall coordinate all CADD deliverables.

A. SCHEDULE CONTROL TECHNIQUES

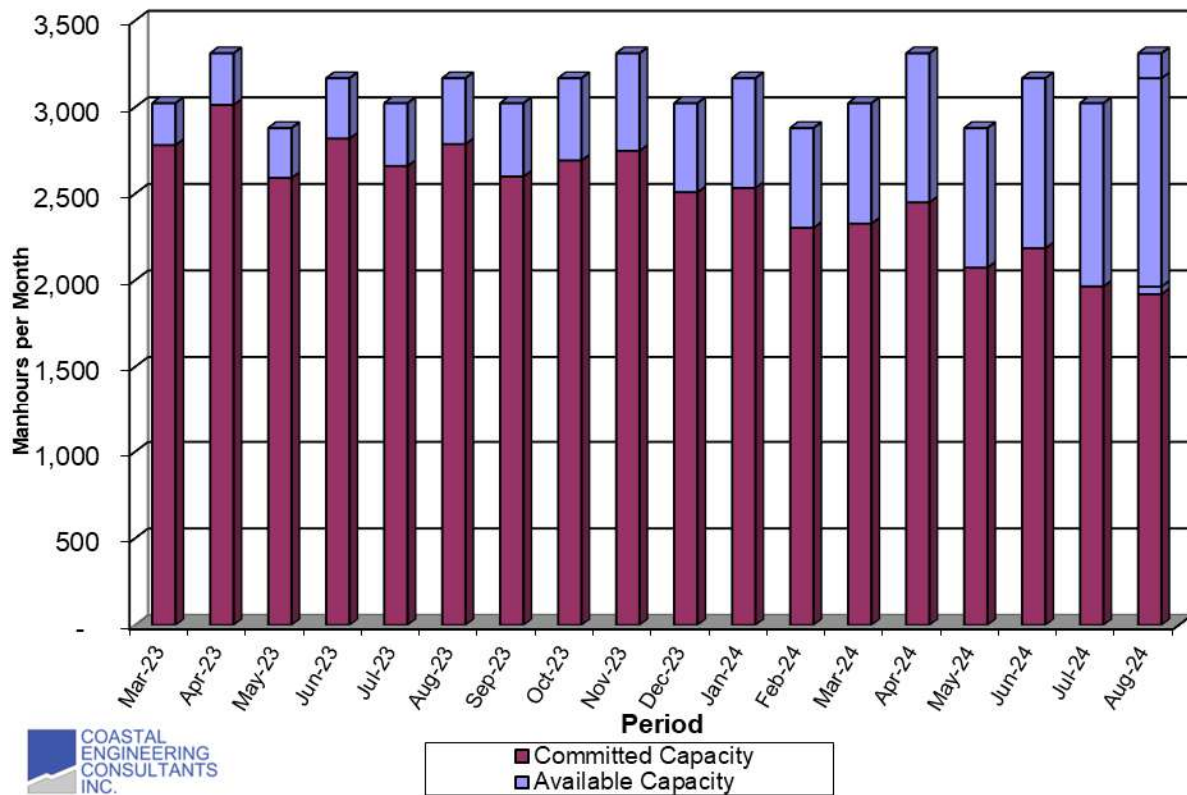
CEC utilizes commercially available scheduling software to develop a work breakdown structure that is visually represented by Gantt chart, and tracks the project by monitoring the project progress by means of the critical path method. Once the critical path is identified, CEC can develop a resource-leveled schedule which enables us to apply resources exactly when and where they are required. Once the resources are applied to the schedule, CEC then sets up milestones to ensure the progress is constantly ongoing. CEC has aggressively defined goals and objectives and established schedule projections for each job through weekly internal staff meetings. Personnel and staff are allocated to make sure that those commitments are met. Internally, we have the ability to reallocate our diverse staff and resources to add extra horsepower, if needed, to meet budgetary or timeframe constraints. **For government projects which rely so heavily on public input, it is essential the schedule be maintained so that public meetings can be advertised appropriately and to keep stakeholders informed as the work progresses.** This being said, it is typically necessary to alter the schedule based on unexpected events. CEC performs minor schedule revisions frequently and at all major milestones.

As data collection is a critical component of this Project, CEC will routinely check and monitor the weather and tides, at the various survey areas, to identify environmental windows sufficient for data collection. As weather windows are identified, survey crews will be deployed to take advantage of the environmental conditions.

B. RECENT, CURRENT AND PROJECTED WORKLOAD

Below is our Team's projected workload for the foreseeable future. The graph depicts the staff hours available per month (Maximum Capacity), hours assigned to current contracts (Committed Capacity), and anticipated hours to be assigned to the Project. We can dedicate hundreds of personnel hours per month and have more than sufficient resources to handle the Project timely and effectively. CEC does not foresee a projected workload that would limit our team's ability to accomplish the work required under this contract in a timely and cost-effective manner.

Personnel Resource Allocation Chart



SECTION V
PROPOSED DESIGN APPROACH

V. PROJECT APPROACH

A. METHODOLOGY INCLUDING ASSESSMENT APPROACH

CEC offers the following scope of services as our Methodology including Assessment Approach to assist the County successfully perform post-storm bathymetric surveys of various MSBU waterways and request FEMA post-storm recovery assistance. If determined necessary by the County, we shall develop, update, and report progress on a Critical Path Method-based schedule throughout the duration of the Project.

1. **Project Initiation Meeting:** Arrange, prepare for, and attend a kick-off meeting with County and stakeholders to discuss the Project goals, identify concerns and issues, obtain initial input, establish lines of communication and contact people, and identify additional stakeholders. Review status of County's waterway debris removal project. Establish prioritization list defining order of waterways to be surveyed.
2. **Data Collection:** Establish horizontal and vertical survey control on the uplands. Utilizing a survey grade single-beam transducer, conduct a bathymetric survey to document existing conditions of each waterway. Cross-sections shall be measured at 50-foot intervals along historic baselines. Locate aids to navigation within each survey area.
3. **Assessment:** Review historic and post-storm bathymetric data to identify locations of infilling and scour. Review available post-storm aerial imagery to determine if waterway impacts are linked to upland damage. Utilizing permitted dredge templates, compute background infilling rates, infilling between the last available historic survey and post-Ian survey, and storm related infilling to quantify incident related damages in accordance with FEMA standards.
4. **Deliverables:** Prepare plans of each survey area that include color contours, cross-sections and volumes. Summarize volumes in tabular format for each canal/channel. Plot historic and post-storm cross-sections and identify volume change.
5. **Technical Assistance:** Provide the County technical assistance in support of requesting FEMA post-storm recovery public assistance to address impacts from Hurricane Ian. Prepare engineering assessment report(s) to include Project Location, History and Performance; Engineering Design Summary; Environmental Permit and Compliance History; Details of Initial Construction and Maintenance; Hurricane Ian Storm Impact Assessment; Details of Construction Methods to Repair the Project; Outline of Permits and Regulatory Authorities that will be required to Repair the Project; Drawings depicting as-built, monitoring, and post-storm conditions; and Opinion of Probable Construction Cost to Repair the Project. Assist the County in responding to requests for additional information from FEMA. As needed, participate in any virtual meetings or on-site meetings with FEMA representatives.

B. ANTICIPATED CHALLENGES

On September 28, 2022, Hurricane Ian came ashore near Cayo Costa, Florida, at 3:05 p.m. EDT with maximum sustained winds of 150 mph. The storm thrashed parts of Florida's western coast bringing intense winds, heavy rainfall, and catastrophic storm surges. A storm surge with inundation of an unprecedented 12 to 18 feet above ground level was reported along the southwest Florida coast. Reportedly, Charlotte County received rainfall in excess of 12 inches in a 12 to 24 hour period. The Charlotte County community suffered extensive damage.

Since the storm's passing, it is understood the County has embarked on a county-wide waterway debris removal effort. With such a vast canal network and the destructive nature of the storm, it is anticipated submerged storm debris will be encountered during the bathymetric surveys. In the event submerged storm debris is located within the survey area, the debris location will be noted and immediately reported to the County. If debris obstructs vessel navigation within a canal, CEC shall attempt to find an alternative canal access point to survey the inaccessible survey area. In the event the inaccessible survey area cannot be accessed with the survey vessel, CEC shall discuss alternative survey methods with the County to ensure the intent of the survey is completed.

C. QUALITY PROJECT WITHIN BUDGET METHODS

Quality Assurance and Quality Control: CEC implements a Quality Assurance and Quality Control Program (QA-QC). The Program begins with senior management, who routinely attend training seminars sponsored by professional societies including ASCE, FES, and FICE. Our President was part of the inaugural class of the FES-FICE Leadership Institute. Our senior staff participated in local Leadership Programs sponsored by the areas chamber of commerce. This investment has paid off in spades as training our key personnel in people management, business practices, human resources, public speaking, and financial management have made them the leaders they are today. CEC senior staff and project managers meet weekly to review internal schedules, project deadlines, staff assignments, and top priorities. CEC routinely issues reports to our clients for project updates and key milestones. We are committing our professional staff, including top management, to your projects. Our Senior Staff shall oversee all facets on projects under their responsible charge to assure quality control and the quality of work.

Project Schedule Controls: CEC utilizes commercially available scheduling software to develop a work breakdown structure that is visually represented by Gantt chart and tracks the project by monitoring the project progress by means of the critical path method. Once the critical path is identified, CEC can develop a resource-leveled schedule which enables us to apply resources exactly when and where they are required. Once the resources are applied to the schedule, CEC then sets up milestones to ensure the progress is constantly ongoing. CEC has aggressively defined goals and objectives and established schedule projections for each job through weekly internal staff meetings. Personnel and staff are allocated to make sure that those commitments are met. Internally, we have the ability to reallocate our diverse staff and resources to add extra horsepower, if needed, to meet budgetary or timeframe constraints. **For government projects which rely so heavily on public input, it is essential the schedule be maintained so that public meetings can be advertised appropriately and to keep stakeholders informed as the work progresses.** This

being said, it is typically necessary to alter the schedule based on unexpected events. CEC performs minor schedule revisions frequently and at all major milestones.

Our Senior Principal, Michael Poff, shall be responsible for overseeing each facet of the Project to ensure the schedule is maintained. CEC has successfully managed and completed projects utilizing subconsultants under multiple engineering and related disciplines for the past 45 years. To aide our Project Managers in this effort, **CEC has invested in one of the most sophisticated project management and cost tracking programs available for architectural and engineering consultants.** CEC's workload has steadily grown to the point where our managers now routinely manage and coordinate a combined average of 400 active projects ranging in size from as little as \$1,000 to as much as \$500,000 during a calendar year. We have put into place an Executive Information System that allows our managers to quickly obtain summary information concerning client history, client and project billing, accounts receivables, project profitability, project budgets, vendor history, vendor status, accounts payable, purchase orders, financial status, and cash position.

Project Cost Controls: CEC is using the latest in field data collection technology including DGPS and RTK stations. For remote locations, we typically install duplicate instrumentation to ensure collection of the required data to avoid remobilization costs and time delays. Our field crew and office staff have worked together to standardize the data collection procedure, nomenclature, and symbols. That data is then directly linked to hardware and internal software such that the data is transferred to provide documentation, plan views, and digital files with a minimum of human intervention. Our up-to-date drafting software is standardized in the Survey and Engineering departments for whom Survey acts as a conduit of data gathering. Survey's main responsibility is to gather data and to prepare the survey plans, cross-sections, legal descriptions, and survey plats. Those documents are then transferred or forwarded to the various design groups so that that data is then utilized in design software to provide up-to-date modern optimized design plan results. Our staff attends annual training sessions in their areas of expertise.

SECTION VI
RECENT SIMILAR PROJECT EXAMPLES

VI. RECENTLY ACCOMPLISHED SIMILAR PROJECTS

A. CHARLOTTE COUNTY POST-IAN STORM ASSESSMENT

Hurricane Ian impacted southwest Florida in September 2022 and caused significant coastal erosion to Charlotte County (County). To assist the County with impacts from Hurricane Ian, CEC provided engineering analyses, reporting and technical assistance in support of a request to FEMA for post-storm recovery assistance to address impacts to the County's beach, specifically the Manasota Key-Charlotte Beach Fill, Updrift Beach Fill, North Beach Fill, and South Beach Fill.

CEC conducted a post-Ian beach profile survey extending from FDEP reference monument R1 to R40. Profile alignments had identical azimuths to that previously established at each monument. Data collection extended seaward 3,000 feet from Mean High Water.

Utilizing the available historic survey data and the post-storm data, CEC computed the background erosion and erosion attributed to Hurricane Ian. CEC prepared a post-Ian damage assessment report for the engineered beach fills. The report included the following details; Project Location, Project History and Performance, Engineering Design Summary, Environmental Permit and Compliance History, Details of Project Construction, Hurricane Ian Storm Impact Assessment, Details of Construction Methods to Reconstruct the Project as Designed, Outline of Permits and Regulatory



Authorities that will be required to Reconstruct the Project, Drawings depicting pre-construction, progress or as-built, and post-storm conditions, and Opinion of Probable Construction Cost to Reconstruct the Project as Designed. CEC submitted the report to FEMA on behalf of the County.

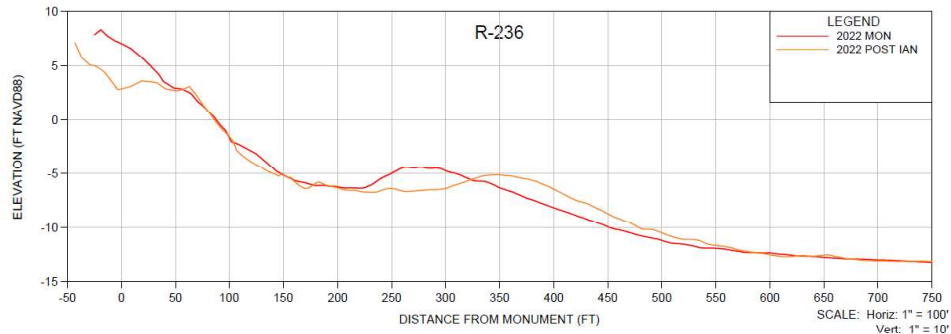
- 1. Schedule Control:** Immediately following the passing of Hurricane Ian, CEC began monitoring the weather to identify a sufficient environmental window to begin the post-storm beach assessment. One week after Hurricane Ian, CEC mobilized to Charlotte County. As basic commodities were scarce post-storm, CEC crews traveled with extra supplies (food, fuel, etc.) in an attempt to operate in a self-sufficient capacity. Survey data was reviewed and processed daily to expedite preparation of the post-Ian damage assessment report.
- 2. Cost Control:** As CEC has the significant majority of the beach profile data sets, engineering design, environmental permits, plan, historic surveys and analyses, in-house preparation of deliverables was fast-tracked and performed at a reduced cost. Daily review of data prevented subsequent mobilizations to address data gaps or punch-list items.
- 3. Type of Survey and Frequency of Data Collection:** Annual or as-needed bathymetric and topographic surveys of beach.

4. **Deliverable:** Deliverables included post-Ian damage assessment report with beach profile sections and volume calculations.
5. **Types of Equipment and Technology:** CEC survey team used a survey vessel outfitted with the following survey instrumentation: Trimble RTK GPS, HYPACK navigation and data-logging computer system, and CEE ECHO digital survey fathometer with a narrow beam 200 kHz. transducer. The surveys will be conducted in accordance with U.S. Army Corps of Engineers Hydrographic Surveying Manual EM-1110-2-100 and meet State of Florida standards including the requirements set forth in Chapter 5J-17 F.A.C.

B. CITY OF BONITA SPRINGS POST-IAN ASSESSMENT

Hurricane Ian impacted southwest Florida in September 2022 and caused significant coastal erosion. To assist the City of Bonita Springs (City) with impacts from Hurricane Ian, CEC provided engineering analyses, reporting and technical assistance in support of a request to FDEP for post-storm recovery assistance to address impacts to South Bonita Beach and two waterways, Spring Creek and the Imperial River.

CEC conducted a post-Ian beach profile survey extending from FDEP reference monument R230 to R239. Profile alignments had identical azimuths identical to that previously established at each monument. Data collection extended seaward 3,000 feet from Mean High Water.



Utilizing the available historic survey data and the post-storm data, CEC computed the background erosion and erosion attributed to Hurricane Ian. CEC prepared a post-Ian technical memorandum summarizing the results of the survey and assessment. Results were included in Lee County's request to FDEP for post-storm recovery assistance.

Additionally, CEC conducted a bathymetric survey of the Spring Creek and Imperial River waterways. Surveys utilized historic baselines and permitted dredge limits. Cross-sections were surveyed at 100-foot intervals. CEC assessed the shoaling patterns to ascertain if Hurricane Ian resulted in extensive infilling to warrant a claim. CEC computed dredge volumes within the permitted dredge template and prepared deliverables including plans, cross-sections and volume tables.

1. **Schedule Control:** CEC deployed crews immediately after Hurricane Ian to begin data collection. Survey data was reviewed and processed daily to expedite preparation of the post-Ian deliverables.

2. **Cost Control:** As CEC has the significant majority of the beach profile and waterway data sets, engineering design, environmental permits, plan, historic surveys and analyses, in-house preparation of deliverables was fast-tracked and performed at a reduced cost. Daily review of data prevented subsequent mobilizations to address data gaps or punch-list items.
3. **Type of Survey and Frequency of Data Collection:** Annual or as-needed bathymetric and topographic surveys of beach. As-needed bathymetric survey of waterways.
4. **Deliverable:** Deliverables included post-Ian damage technical memorandum, plans, cross-sections, and volume calculations.
5. **Types of Equipment and Technology:** CEC survey team used a survey vessel outfitted with the following survey instrumentation: Trimble RTK GPS, HYPACK navigation and data-logging computer system, and CEE ECHO digital survey fathometer with a narrow beam 200 kHz. transducer. The surveys will be conducted in accordance with U.S. Army Corps of Engineers Hydrographic Surveying Manual EM-1110-2-100 and meet State of Florida standards including the requirements set forth in Chapter 5J-17 F.A.C.

C. CHARLOTTE COUNTY PRE-STORM BATHYMETRIC SURVEYS

CEC assisted the County by conducting pre-storm bathymetric surveys in 2019, 2020 and most recently in 2022. Bathymetric surveys were conducted for the following waterways; Alligator Creek, Buena Vista and Sunrise, Harbour Heights, Northwest Port Charlotte Access Channel, South Gulf Cove, Suncoast, and Pirate Harbor.

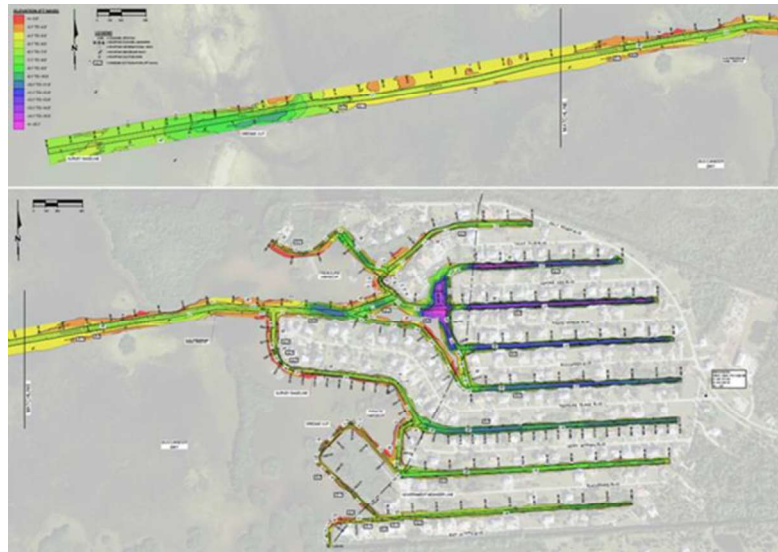
Utilizing in-house staff, CEC performed the following services for each project area:

- Established vertical and horizontal survey control.
- Collected detailed bathymetric data along historic baselines.
- Located all aids to navigation.
- Computed dredge volumes within the design dredge template.
- Prepared deliverables including plans with color contours, cross-sections, and volume tables.



2. Cost Control: As CEC has the significant majority of the waterway files, data sets, engineering design, environmental permits, plan, historic surveys and analyses in-house, preparation of deliverables was fast-tracked and performed at a reduced cost.

3. Type of Survey and Frequency of Data Collection: Annual bathymetric and topographic surveys of residential waterways.



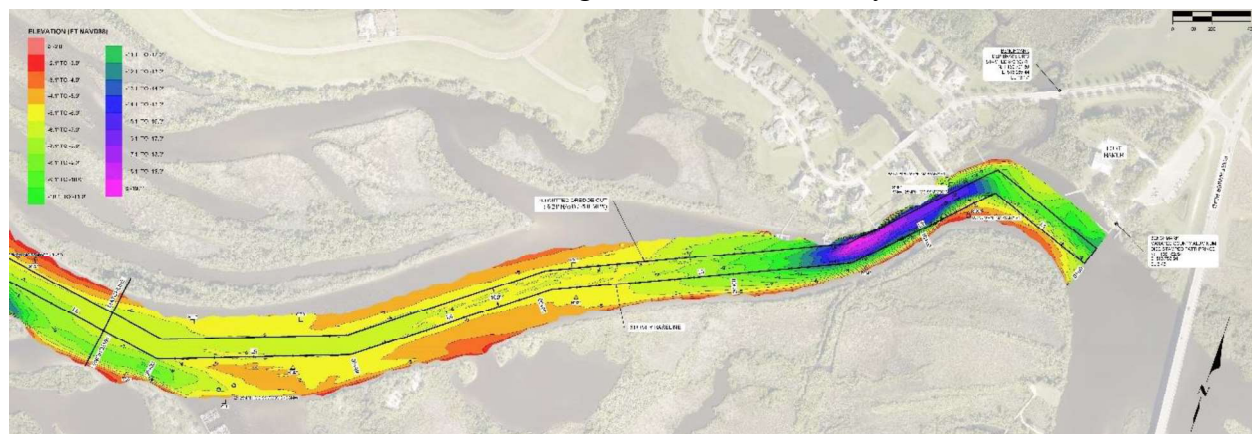
4. Type of Deliverable:

Deliverables included plan views with color contours, cross-sections, and potential dredge volumes for each channel/canal segment. Cross-sections showed available historic data. Deliverables included the AutoCAD file of the survey, one electronic PDF file, and one set of 24" x 36" signed/sealed copy.

5. Types of Equipment and Technology: CEC survey team used a survey vessel outfitted with the following survey instrumentation: Trimble RTK GPS, HYPACK navigation and data-logging computer system, and CEE ECHO digital survey fathometer with a narrow beam 200 kHz. transducer. The surveys will be conducted in accordance with U.S. Army Corps of Engineers Hydrographic Surveying Manual EM-1110-2-100 and meet State of Florida standards including the requirements set forth in Chapter 5J-17 F.A.C.

D. UPPER MANATEE RIVER BATHYMETRIC SURVEY

CEC was hired by Manatee County to evaluate shoaling within a five (5) mile stretch of the Manatee River navigation channel. CEC established horizontal and vertical survey control on the uplands and conducted a bathymetric survey along the historic channel alignment. Cross-sections were surveyed at 50-foot intervals. CEC located aids to navigation within the survey limits.



Utilizing the surveyed cross-sections, CEC computed dredge volumes to the permitted dredge depth and prepared deliverables. Deliverables included plans with color contours, cross-sections, and volume tables.

1. **Schedule Control:** CEC monitored weather and tides for weather windows which would allow for efficient data collection. Once weather windows were identified with sufficient environmental conditions survey crew were deployed to conduct bathymetric survey.
2. **Cost Control:** As CEC has the significant majority of the waterway data sets, engineering design, environmental permits, plan, historic surveys and analyses, in-house preparation of deliverables was fast-tracked and performed at a reduced cost. Daily review of data prevented subsequent mobilizations to address data gaps or punch-list items.
3. **Type of Survey and Frequency of Data Collection:** As-needed bathymetric survey of waterway.
4. **Deliverable:** Deliverables included plan views with color contours, cross-sections, and potential dredge volumes. Cross-sections showed available historic data. Deliverables included the AutoCAD file of the survey, one electronic PDF file, and one set of 24" x 36" signed/sealed copy.
5. **Types of Equipment and Technology:** CEC survey team used a survey vessel outfitted with the following survey instrumentation: Trimble RTK GPS, HYPACK navigation and data-logging computer system, and CEE ECHO digital survey fathometer with a narrow beam 200 kHz. transducer. The surveys will be conducted in accordance with U.S. Army Corps of Engineers Hydrographic Surveying Manual EM-1110-2-100 and meet State of Florida standards including the requirements set forth in Chapter 5J-17 F.A.C.

SECTION VII
EXPERIENCE AND CAPABILITIES

VII. EXPERIENCE AND CAPABILITIES

A. GOVERNMENT FACILITIES WITH MULTIPLE ORGANIZATIONS AND STAKEHOLDERS

The CEC Team is well versed in working with multiple organizations specific to government facilities. In Section II “Proposed Management Plan” we detail our proposed Public Information Program that includes the residents, key stakeholders, and permit agency staff in a comprehensive manner. We recognize that the Marine Advisory Committee will have significant input for this Project and consensus building within this *eclectic* group will be instrumental in garnering their positive recommendation.

In Section III “Previous Experience” we describe our relevant work history with Federal, State, and Local Governments and provide examples of our bathymetric survey, channel shoaling analyses, condition assessment, and dredging construction management within a fixed price budget with government facilities. CEC’s bathymetric survey and damage assessment experience in Southwest Florida is unparalleled, providing land and marine surveys, coastal engineering, coastal geology, and environmental services experience on 11 municipal projects plus multiple private projects over the past two decades.

In Section VI “Present Similar Project Examples” we detail several key bathymetric survey projects for municipal and private entities and share our success stories in survey, assessment, permitting, estimating, and providing dredging construction oversight.

For many of our bathymetric and channel assessment projects located within the incorporated limits of a city, the county maintains jurisdiction over local permitting. Or we are working for a county and their waterway is located within the jurisdiction of the city. A third example is working for a county and the county has to self-permit the project as they are the local jurisdiction. Yet a fourth example is working for a regional waterway management district and the county. In these examples we must abide by the governing authority and process site development approvals accordingly. The keys to success are education and communication.

B. STORM DAMAGE ASSESSMENT

Following significant storm events, CEC is prompt in mobilizing to the impacted area to collect data and document conditions post-storm. As needed, data is collected by conventional survey methods, witness testimony, photographs, aerial imagery, visual observations, gauges and instrumentation, and structural inspections. Collecting multiple forms of data allows CEC to better understand the storm impacts and quantify the damage.



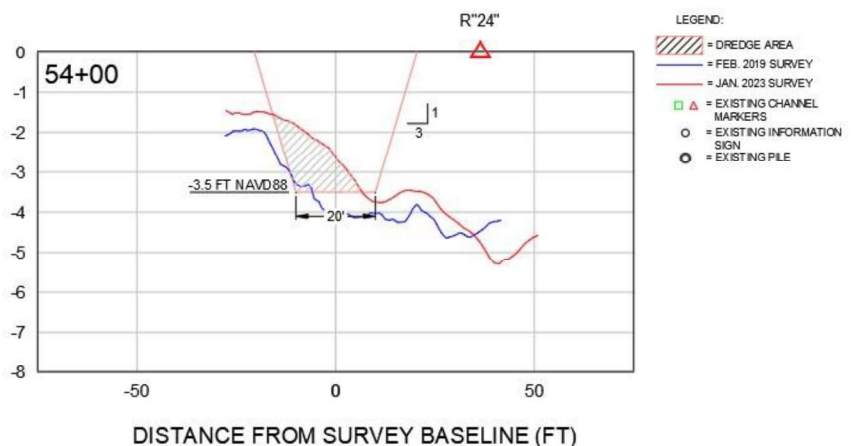
Early in the recovery process, CEC engages State and Federal representatives to confirm funding eligibility and the application process to secure FEMA Category A, B and G funding and/or State post-disaster recovery funds. CEC is familiar with the required reporting to request post-storm public assistance and works with owners to ensure the applications are submitted in a timely manner.

CEC provides any technical assistance required by State and Federal representatives during the application review period. This may include site visits with representatives or addressing requests for additional information.

Most recently, CEC is working with Lee County, City of Bonita Springs, Town of Fort Myers Beach, and Charlotte County to secure FEMA and/or State funding to address impacts from Hurricane Ian. In total CEC has successfully assisted clients obtain federal

funding for five projects and is actively working on seven projects.

Utilizing the available historic survey data and the post-storm data, CEC computed the background erosion and erosion attributed to Hurricane Ian. CEC prepared a post-Ian technical memorandum summarizing the results of the survey and assessment. Results were included in a request to FDEP for post-storm recovery assistance.



Throughout CEC's 45-year history, we have provided superior service to Charlotte County on a variety of surveying and dredging projects related to managing the County's many waterway systems to include but not limited to Buena Vista Access and Connector Channels, South Bridge Channel, Suncoast Channel and Canals, Harbor Heights Channel and Canals, Northwest Port Charlotte Access Channel, Suncoast Channel and Canals, Alligator Creek Channel, and Pirate Harbor Channel and Canals. Because of this rich survey history CEC has the historical data necessary to analyze channels quickly and efficiently for storm related impacts.

C. FEMA AND INSURANCE REQUIREMENTS

CEC provides equal employment opportunities to all Employees and applicants for employment, without regard to race, color, religion, gender, sexual orientation, gender identity/transgender status, national origin, age, genetic information, marital status, status as a covered veteran, or the presence of handicaps or disabilities, or any other basis protected by state or federal law.

In addition, this policy of equal opportunities applies to all terms and conditions of employment. This includes, but is not limited to, hiring, placement, promotion, termination, layoff, recall, transfer, leaves of absence, compensation, and training.

CEC abides by all state and federal acts laws, and executive orders pertaining to nondiscrimination, human rights, public health and security, trafficking, gun control, clean air, work hours and safety standards, anti-lobbying, records access, and environmental compliance as required by this RFP.

CEC carries and will maintain the necessary insurance to perform all aspects of the proposed project. CEC will not be required to partner or subconsultant any elements of work. The County has been named as additionally insured on the appropriate policy forms.

D. PERMITTING IN SOUTHWEST FLORIDA AND CHARLOTTE COUNTY

In Section III “Previous Experience” and Section VI “Present Similar Project Examples” we highlight CEC’s channel and dredging design, permitting, and construction management experience with Charlotte County channel survey and dredging projects. CEC is well known for successful time and cost-effective permit coordination. For these example projects, the required permit is the state and federal dredging permits which need to be secured by the County prior to construction. CEC has provided assistance to Charlotte County in preparing and submitting the required permit applications to include but not limited to FDEP environmental resource, exemption requests, submerged land lease, and coastal construction control line. Additionally CEC has prepared federal permit applications to include engineering form 4345, project design criteria checklist, and NMFS Section 7 checklist. Our key personnel have worked with the various state and federal agencies for a variety of marine related projects. Beyond the less-than-clear-regulations, we recognize the critical human elements of trust, judgment, and discretion in the permitting process. To reduce overall permitting time, CEC employs a technique to submit the local and state/federal permits concurrently. We have successfully processed many permits via concurrent agency submittals

For major projects we establish a permitting team to improve the depth of permitting expertise to most effectively work with the regulatory agencies consistent with regulations. The permit team meets routinely and to track the permit process and proactively manage the work to obtain the desired permit on time and within budget. We expeditiously prepare applications and/or Request for Additional Information “RAI” responses, hold face to face meetings with our clients to review and finalize, then send to the agencies.

We perceive that one of our strengths is our personal relationships with the agency staff. We can rely on these relationships to save time during the permitting process as the reviewers trust our

work product and have a comfort level that projects will be constructed using Best Management Practices. Further, we conduct joint field work with FDEP staff and keep all coordination extremely professional in nature. While the lack of a federal time clock still inhibits some processes from moving forward timely, CEC remains proactive with the local offices encouraging them to attend construction meetings and site visits on marine related projects to educate their staff on coastal and marine projects. This fosters good will and we believe aids in our projects receiving prompt attention.

CEC has experience with County permitting with respect to the dredge project management contracts we have completed for the County. Several of these projects included requirements to apply for and obtain temporary fill permits for individual lots used for offloading and temporary storage.

E. TECHNICAL ASSISTANCE IN REQUEST TO FEMA FOR PUBLIC POST STORM RECOVERY

Since 2004 CEC has assisted multiple state and municipal governments in support of requesting post-storm recovery public assistance from FEMA to address impacts from significant storms including Charlotte County. FEMA Category A, B and G funding has been secured to address erosion of engineered beaches and infilling within navigation channels. CEC has worked closely with FEMA representatives to understand funding eligibility and the application process. In 2012, CEC assisted the County secure federal funding to address debris (sediment) removal within the Sunrise Channel. Most recently, CEC is working with Lee County, City of Bonita Springs, Town of Fort Myers Beach, and Charlotte County to secure FEMA funding to address impacts from Hurricanes Ian and Nicole.

Technical assistance has included preparing a post-storm technical memorandum summarizing the results of the survey and assessment. The memorandum included dredge plans with color contours and dredge templates; cross-sections with current and historic bathymetric data, volume calculations with historical infilling rates; and channel marker repair/replacement plans. Further, CEC assisted the County respond to request for additional information from FEMA and their subject matter experts.

In total CEC has successfully assisted clients obtain federal funding for five prior beach nourishment and channel waterway dredging projects. CEC is actively working on seven projects specific to hurricane recovery from 2021 and 2022 storm events for our government clients located in the Gulf region.

SECTION VIII
VOLUME OF WORK

VIII. VOLUME OF WORK

The total amount of payments received from Charlotte County within twenty-four months is \$1,549,363.

SECTION IX
LOCATION

IX. LOCATION

A. OFFICE LOCATIONS

Coastal Engineering Consultants, Inc.

28421 Bonita Crossings Blvd.

Bonita Springs, Florida 34135

Telephone: (239) 643-2324

Fax: (239) 643-1143

Internet: <http://www.coastalengineering.com>

Contact: Michael T. Poff, P.E., President

mpoff@cecifl.com

B. RESPONSIVENESS

CEC's office is located in Bonita Springs Florida and has been established since 1977. While we are not "local" by our address, Charlotte County is our firm's number one client in Florida. We are actively working for the County on seventeen (17) coastal, marine and environmental projects on your behalf, and we consider ourselves "local."

We have developed positive relationships with the areas' residents, environmental organizations, and agency staff, and have established a **level of trust** for which to build on as the projects develop and advance into the implementation stages. CEC has the **local presence by virtue of our active projects with the County** necessary to provide **timely and cost-effective** services. CEC has an excellent track record of completing tasks on schedule and within budget.

As the County staff are aware, in the wake of **Hurricane Ian CEC was on site within days conducting post-storm surveys and assessments** in support of the County's recovery efforts through FEMA. We have worked with your project managers to tackle the highest priority projects first while continuing to maintain high quality service and deliverables.

SECTION X
LITIGATION

X. STATEMENT OF LITIGATION

CEC has not been involved in any litigation in the last five years.

CEC meets and exceeds the minimum insurance requirements. See the proceeding page for details.



COASENG-01

RJONES

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

2/21/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Ames & Gough 8300 Greensboro Drive Suite 980 McLean, VA 22102	CONTACT NAME:	
	PHONE (A/C, No, Ext): (703) 827-2277	FAX (A/C, No): (703) 827-2279
	E-MAIL ADDRESS: admin@amesgough.com	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A: National Fire Insurance Company of Hartford A(XV)	20478
	INSURER B: Continental Insurance Company A(XV)	35289
	INSURER C: Transportation Insurance Company A(XV)	20494
	INSURER D: Hudson Insurance Company	25054
	INSURER E:	
	INSURER F:	

INSURED

Coastal Engineering Consultants, Inc.
28421 Bonita Crossings Boulevard
Bonita Springs, FL 34135

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> Contractual Liab. GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER:			7036191154	11/1/2022	11/1/2023	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY			7036191168	11/1/2022	11/1/2023	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			7036191171	11/1/2022	11/1/2023	EACH OCCURRENCE \$ 4,000,000 AGGREGATE \$ 4,000,000 \$
C	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input checked="" type="checkbox"/> Y / N If yes, describe under DESCRIPTION OF OPERATIONS below		N / A	7036206557	11/1/2022	11/1/2023	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	<input checked="" type="checkbox"/> Professional Liab.			PRB 06 19 114234	6/1/2022	6/1/2023	Per Claim/Aggregate 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
RE: RFP No. 2023000332 Post Hurricane Ian Bathymetric Surveys

Charlotte County Government is included as additional insured with respect to General Liability, Automobile Liability and Umbrella Liability when required by written contract. General Liability and Umbrella Liability are primary and non-contributory over any existing insurance and limited to liability arising out of the operations of the named insured and when required by written contract. General Liability, Automobile Liability, Umbrella Liability and Workers Compensation policies include a waiver of subrogation in favor of the additional insureds where permissible by state law and when required by written contract. 30-day Notice of Cancellation will be issued for the General Liability, Automobile Liability and Professional Liability policies in accordance with policy terms and conditions.

CERTIFICATE HOLDER

CANCELLATION

Charlotte County Government
18500 Murdock Circle, Suite 344
Port Charlotte, FL 33948

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

SECTION XI
MINORITY BUSINESS

XI. MINORITY BUSINESS

Although CEC is not Minority Business, we strongly support equal opportunity employment.