Design - Bridge Scour Study and Countermeasures

RFP #20250383— Charlotte County, Florida

Submitted May 29, 2025

GMC
Goodwyn Mills Cawood

Building Communities

www.gmcnetwork.com

PART IV - SUBMITTAL FORMS
PROPOSAL SUBMITTAL SIGNATURE FORM

1.	Project Team Name and Title	Years experience	City of office individual will work out of for this project	City individual's office is normally located	City of individual's residence
	Kevin Laird - Project Principal	27	Greenville, SC	Greenville, SC	Greenville, SC
	Scott K. Stannard - VP, Engineering / Project Manager	37	Lutz, FL	Lutz, FL	Odessa, FL
	Bret Webb - VP, Coastal Engineering	24	Mobile, AL	Mobile, AL	Mobile, AL
	Scott Doulgass - VP, Coastal Engineering	45	Daphne, AL	Daphne, AL	Fairhope, AL
	Beau Buhring - Coastal Engineer	14	Daphne, AL	Daphne, AL	Spanish Fort, AL
	Scott Hutchinson - VP, Civil Engineering	32	Daphne, AL	Daphne, AL	Fairhope, AL
	Diego Gaspard - Project Engineer	11	Lutz, FL	Lutz, FL	Wesley Chapel, FL
	Matthew Archer - Project Engineer	6	Lutz, FL	Lutz, FL	Tampa, FL
	Lee Walters - Professional Wetland Scientist	20	Mobile, AL	Mobile, AL	Spanish Fort, AL

2.	Magnitude of Company Operations	
	A) Total professional services fees received within last 24 months:	$ 299,670,000.00
	B) Number of similar projects started within last 24 months:	2
	C) Largest single project to date:	$1,082,000,000.00

3.	Magnitude of Charlotte County Projects	
	A) Number of current or scheduled County Projects	0
	B) Payments received from the County over the past 24 months (based upon executed contracts with the County).	$0.00

4.	Sub-Consultant(s) (if applicable)	Location	% of Work to be Provided	Services to be Provided
	TerraMetrix	St. Petersburg, FL	15%	Survey
	Severns Civil	Cape Coral, FL	20%	Bridge Inspection

5.	Disclosure of interest or involvement: List below all private sector clients with whom you have an active pending contract and who have an interest within the areas affected by this project. Also, include any properties or interests held by your firm, or officers of your firm, within the areas affected by this project.	
	Firm	Address
	Phone #	Contact Name
	Start Date	Ending Date
	Project Name/Description	

NAME OF FIRM Goodwyn Mills Cawood, LLC

(This form must be completed and returned)

6. Minority Business:	**Yes** x **No** _____
The County will consider the firm's status as an MBE or a certified MBE, and also the status of any sub-contractors or sub-consultants proposed to be utilized by the firm, within the evaluation process.	
Comments or Additional Information:	
Severns Civil is a certified DBE / WBE in the State of Florida	

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

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

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

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

Addendum No. 1 Dated 5/14/25 Addendum No._____ Dated_____ Addendum No._____ Dated_____

Addendum No. 2 Dated 5/19/25 Addendum No._____ Dated_____ Addendum No._____ Dated_____

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

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

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

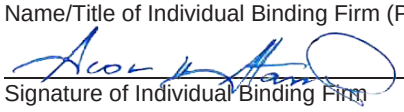
2660 EastChase Lane, Suite 200 — Home Office Address

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

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

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

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


Signature of Individual Binding Firm

5/29/2025 — Date

scott.stannard@gmcnetwork.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 Goodwyn Mills Cawood, LLC (name of business) does:

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

5/29/2025

Date

END OF PART IV

(This form must be completed & returned)

Contents

Please scan the QR code below for a short video about GMC and be sure to visit our website at: gmcnetwork.com.

SCAN ME! ▼

GMC

Goodwyn Mills Cawood

21764 State Road 54
Lutz, FL 33549

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

May 28, 2025

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

RE: RFP NO. 20250383 DESIGN – BRIDGE SCOUR STUDY AND COUNTERMEASURES

Dear Members of the Selection Committee,

Goodwyn Mills Cawood (GMC) is pleased to submit our qualifications for providing engineering services related to scour analysis and the design of scour countermeasures for the Tom Adams Beach Road Bridge over Lemon Bay (#010029), the Midway Boulevard Bridge over North Spring Lake (#014073), and the CR775 Bridge over Ainger Creek (#010062). We understand the importance of protecting critical bridge infrastructure from scour and are fully prepared to meet Charlotte County's expectations with responsive, high-quality service rooted in proven expertise.

As a multidisciplinary engineering firm with decades of experience in transportation infrastructure, water resources, and coastal engineering, GMC offers a uniquely qualified team with specialized expertise in scour analysis, bridge rehabilitation, and the design of sustainable countermeasures. Our engineers have extensive experience in developing and implementing effective solutions tailored to the specific hydraulic and geotechnical challenges of Florida's coastal and inland waterways.

GMC's team includes Board-Certified Coastal Engineers who have authored federal guidance for the planning and design of coastal highways and bridges, including the FHWA's HEC-25 series. We have applied advanced hydrodynamic and sediment transport models to assess vulnerability and inform design strategies for bridge scour and resilience. Our services span the full project lifecycle—from field inspections and repair memoranda to final construction documents, permitting, and engineering support during construction.

Our experience delivering similar projects for state DOTs and local governments across the Southeast equips us to handle Charlotte County's requirements with confidence and efficiency. We are committed to delivering all aspects of the project—including 60% and 100% design plans, permitting, cost estimating, shop drawing reviews, and record drawings—in full compliance with FDOT, FHWA, OSHA, and Coast Guard standards.

GMC values collaborative partnerships and clear, proactive communication. We are excited about the opportunity to support Charlotte County in enhancing the safety, resilience, and longevity of your bridge infrastructure, and we welcome the chance to bring our experience, innovation, and dedication to this important initiative.

Thank you for consideration. We look forward to the opportunity to work with you.

Sincerely,

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

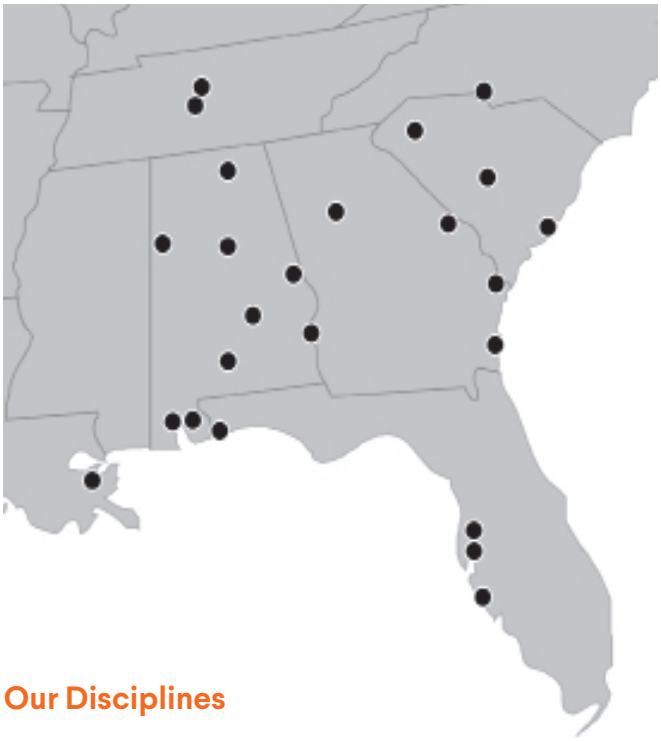
Section 1

Team Proposed for this Project

Who We Are

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

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



Office Locations

Alabama
Andalusia
Auburn
Birmingham
Daphne
Eufaula
Huntsville
Mobile
Montgomery
Vernon

Florida
Lutz
Pensacola
Sarasota
Tampa

Georgia
Atlanta
Augusta
Brunswick
Savannah

Louisiana
New Orleans

North Carolina
Charlotte

South Carolina
Charleston
Columbia
Greenville

Tennessee
Brentwood
Nashville

Our Disciplines

- Architecture
- Coastal Engineering
- Engineering
- Environmental
- Landscape Architecture
- Disaster Recovery
- GIS
- Planning
- Geotechnical
- Electrical
- Transportation
- Surveying

Kevin Laird, PE

Executive Vice President, Engineering / Project Principal

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

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

Representative Project Experience

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

Water and Wastewater Experience

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

Education:

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

Licenses and Certifications:

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

Affiliations:

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

Scott K. Stannard, PE, CPESC

Vice President, Engineering / Project Team Lead

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

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

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

Education:

Bachelor of Science, Civil Engineering, Clemson University, 1987

Licenses and Certifications:

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

Civic Activities:

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

Government/Municipal Experience

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

Commercial Experience

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

Bret Webb, PhD, PE, BC.CE

Vice President, Coastal Engineering Practice Leader

(251) 591-0588 bret.webb@gmcnetwork.com

Dr. Webb has over 20 years of experience in coastal engineering and applied coastal science. Dr. Webb has demonstrated expertise in the application of the specialty area of coastal engineering to the planning, design, and implementation of nature-based solutions for shoreline protection. Dr. Webb is proficient in both the development and application of hydrodynamic models for evaluating extreme event impacts under present and future climatic conditions. Dr. Webb served as the lead hydrodynamic modeler for evaluating the impacts of future climate change on storm surge and waves for the Gulf Coast 2 Study in Mobile, AL. Dr. Webb has authored or co-authored over 50 peer-reviewed publications and technical reports related to relevant coastal engineering topics, including the use of natural and nature-based features for coastal resilience.

Shoreline Stabilization Experience

- Pensacola Bay Living Shoreline Project - Pensacola, FL
- Suarez Point Living Shoreline Project - Perdido Bay, FL (2019)
- Alabama Comprehensive Living Shoreline Monitoring Program - Mobile Bay, AL
- Dauphin Island East End Beach and Dune Restoration (2024)
- 1st National Nature Assessment - Chapter Author - US Global Change Research Program
- US Army Corps of Engineers Engineering With Nature Technical Guidelines for Nature-Based Solutions - Technical Editor
- Mon Louis Island Living Shoreline Project - Mobile County, AL
- Little Bay Coastal Marsh Creation and Protection Project – Bayou La Batre, Alabama (2011)

Resiliency Experience

- Lead hydrodynamic modeler, USDOT FHWA Gulf Coast Study Phase 2 (2010-2014)
- Technical Assistance – FEMA Flood Map Modernization for Alabama Mobile & Baldwin Counties, Alabama (2009-2013)
- FEMA NIBS Scientific Resolution Panelist (2016-Present)
- Bridge Hydraulics Assessments for I-10 Bridges: Parker Bayou and Tchoutacabouffa River—Mississippi DOT, Biloxi, MS, 2020—2021. Lead investigator, senior coastal engineer.
- HEC-25 Highways in the Coastal Environment, 3rd Ed.—USDOT FHWA, Washington, DC, 2017—2020. Co-author.
- NCHRP 15-80 Design Guide and Standards for Infrastructure Resilience—National Cooperative Highway Research Program, Washington, DC, 2018—2020. Co-investigator, co-author, coastal engineering.
- NHI 135082 Highways in the Coastal Environment—USDOT FHWA NHI, Washington, DC, 2018—Present. Lead investigator, co-developer of all lesson materials.
- NCHRP 15-61 Applying Climate Change Information to Hydrologic and Hydraulic Design—National Cooperative Highway Research Program, Washington, DC, 2016—2019. Co-investigator, co-author, coastal engineering.
- Nature-Based Solutions for Coastal Highway Resilience: an Implementation Guide—USDOT FHWA, Washington, DC, 2017—2019. Co-investigator, lead author.
- Transportation Engineering Approaches for Climate Resiliency (TEACR)—USDOT FHWA, Washington, DC, 2014—2016. Co-investigator, co-author, coastal engineering studies.

Education:

- PhD., Coastal & Ocean Engineering, University of Florida 2008
- MS, Coastal & Ocean Engineering, University of Florida 2004
- BS, Civil Engineering, University of Florida 2001

Licenses and Certifications:

- Professional Engineer AL 34056, FL 78748
- Board-Certified Coastal Engineer (ACOPNE)

Affiliations:

- American Shore & Beach Preservation Association
- American Society of Civil Engineers
- Coasts, Oceans, Ports, and Rivers Institute
- Environmental & Water Resources Institute

Honors and Awards:

- ASCE COPRI Orville T. Magoon Sustainable Coasts Award, March 2023
- Federal Highway Administration 2022 Environmental Excellence Award
- ASBPA Robert (Bob) G. Dean Coastal Academic Award, American Shore & Beach Preservation Association, September 2021
- ASBPA Member of the Year Award, 2018

Publications

- Webb, B. M., Matthews, M. T. 2014. Wave-induced scour at cylindrical piles: estimating equilibrium scour depth in a transition zone. Transportation Research Record: Journal of the Transportation Research Board 1(2436), 148-155.
- Webb, B. M. 2010. Wave induced scour at coastal infrastructure. National Hydraulic Engineering Conference, Park City, UT.

* Projects completed with previous firm.

Scott L. Douglass, PhD, PE, BC.CE

Vice President, Coastal Engineering Practice Leader

(251) 460-4006 scott.douglass@gmcnetwork.com

Dr. Douglass has over 40 years of experience in coastal engineering research and design and is a nationally recognized leader in coastal engineering related to storm damage, coastal transportation projects, living shorelines, and beach erosion solutions.

Scott is a pioneer in developing the technique of bay beach nourishment with breakwaters to permanently stabilize the shoreline. He has designed many of these systems throughout coastal Alabama including the pocket beaches at Marriott's Grand Hotel and Resort at Point Clear. Scott is an emeritus professor at the University of South Alabama and the author of a book for laypersons about the causes of and solutions to beach erosion. He has worked on beaches throughout the US including all the Pacific and Caribbean US Island Territories. He has developed several generations of the primary guidance documents and professional development courses for the Federal Highway Administration related to coastal highways and bridges. He has served as an expert witness in legal cases related to coastal science, engineering and policy including a case at the Supreme Court of the United States. He has designed several coastal stabilization projects that have won national awards for engineering excellence and is the design engineer-of-record for the presently ongoing beach and dune restoration at the east end of Dauphin Island.

Shoreline Stabilization Experience

- Fairhope Beach Management Plan: Recommendations for a Beach Management Plan for Fairhope's Two Main Beaches – Fairhope, AL
- East End Beach and Dune Restoration (2024) – Dauphin Island, AL
- Mon Louis Island Living Shoreline Project – Mobile County, AL
- Saving America's Beaches: The Cause of and Solutions to Beach Erosion (World Scientific Press, 2002)
- West End Beach & Barrier Island Restoration – Dauphin Island, AL
- Little Bay Coastal Marsh Creation and Protection Project – Bayou La Batre, Alabama (2011) - award winning marsh restoration project
- Marriott's Grand Hotel and Resort Pocket Beach (2003) - Fairhope, AL
- Brookley's Gulf Pines Living Shorelines (1998) - Mobile Bay, AL - Alabama's first living shoreline has survived every storm and hurricane since

Resiliency Experience

- NCHRP 15-80 Design Guide and Standards for Infrastructure Resilience—National Cooperative Highway Research Program, Washington, DC, 2018—2020. Coinvestigator, co-author, coastal engineering.
- NHI 135082 Highways in the Coastal Environment—USDOT FHWA NHI, Washington, DC, 2018—Present. Lead investigator, co-developer of all lesson materials.
- HEC-25 Highways in the Coastal Environment, 3rd Ed.—USDOT FHWA, Washington, DC, 2017—2020. Lead author, project management.
- Nature-Based Solutions for Coastal Highway Resilience: an Implementation Guide—USDOT FHWA, Washington, DC, 2017—2019. Co-investigator, co-author.
- Transportation Engineering Approaches for Climate Resiliency (TEACR)—USDOT FHWA, Washington, DC, 2014—2016. Co-investigator, co-author, coastal engineering studies.

Education:

- Bachelor of Science in Civil Engineering Virginia Tech 1981
- Master of Science in Civil Engineering Mississippi State 1985,
- PhD, Coastal Engineering, Drexel University, 1989

Licenses and Certifications:

- Licensed Engineer Alabama, Florida, Mississippi and New Jersey
- Board Certified Coastal Engineer, Academy of
- Coastal, Ocean, Port & Navigation. Engineers
- National Highway Institute Instructor No. 0267

Publications

- Douglass, S.L., and Webb, B.M. 2020. "Highways in the Coastal Environment, 3rd Ed." Hydraulic Engineering Circular 25. United States Department of Transportation, FHWAHIF- 19-059, Washington, DC. 434 pp.
- Webb, B. M., Dix, B., Douglass, S. L., Asam, S., Cherry, C., Buhring, B. 2019. "Nature-Based Solutions for Coastal Highway Resilience: An Implementation Guide." United States Department of Transportation, FHWAHEP- 19-042, Washington, DC. 229 pp.
- Krolak, J., Webb, B.M., Douglass, S.L., Kriebel, D., Walker, R., Girard, L., Dasenbrock, D., Habic, E., Kafalenos, R., Sharar-Salgado, D. 2021. "Congressional Report on Coastal Shoreline Erosion: American Samoa, Guam, Hawai'i, Northern Mariana Islands, Puerto Rico, and US Virgin Islands." Report No. FHWA-HIF-21-XXX. USDOT Federal Highway Administration, Washington, DC. 329 pp.

Thomas "Beau" Buhring, PE

Coastal Engineer

(251) 460-4006 beau.buhring@gmcnetwork.com

Mr. Buhring specializes in coastal engineering and applied coastal science. Mr. Buhring has demonstrated expertise in the application of the specialty area of coastal engineering to shoreline erosion solutions. Mr. Buhring has served as the project manager for numerous large-scale beach and dune restoration projects on Dauphin Island, Alabama. He has also materially contributed to the technical design aspects of shoreline erosion solutions ranging in scales from individual parcels to entire barrier islands.

Shoreline Stabilization Experience

- East End Beach and Dune Restoration (2024) – Dauphin Island
- Mon Louis Island Living Shoreline Project – Mobile County, AL
- East End Beach and Barrier Island Restoration Project and Post-Project Compliance Monitoring (2016) – Dauphin Island, AL
- West End Beach and Barrier Island Restoration – Dauphin Island, AL
- Dauphin Island, AL East End Beach and Barrier Island Restoration Project—Town of Dauphin Island, Mobile, AL, 2013—2016. Project manager, coastal engineering design, specifications, regulatory review, and monitoring oversight.
- Radcliff Pocket Beach – Lillian, AL
- Coherd Pocket Beach – Fairhope, AL
- King/Clark Pocket Beach – Ono Island, AL
- Hargrove Pocket Beach – Lillian, AL
- Deer Point Pocket Beach – Pensacola, FL

Resiliency Experience

- NHI 135082 Highways in the Coastal Environment—USDOT FHWA NHI, Washington, DC, 2018—Present. Assisted with and/or created course content for the ILT portion of the course; lead developer of the four, stand-alone 1-hour WBT pre-requisite courses.
- HEC-25 Highways in the Coastal Environment, 3rd Ed.—USDOT FHWA, Washington, DC, 2017—2020. Assisted in the development of material, writing, editing, and 508 compliance.
- NCHRP 15-61 Applying Climate Change Information to Hydrologic and Hydraulic Design—National Cooperative Highway Research Program, Washington, DC, 2016—2019. Assisted with content development, editing, and QA/QC.
- Nature-Based Solutions for Coastal Highway Resilience: an Implementation Guide—USDOT FHWA, Washington, DC, 2017—2019. Assisted with content development, peer exchanges, technical editing, and QA/QC.
- Transportation Engineering Approaches for Climate Resiliency (TEACR)—USDOT FHWA, Washington, DC, 2014—2016. Served as lead developer on one coastal TEACR study (highway overwashing) and assisted in the creation of the other two coastal studies (bridge retrofits, living shoreline).

Education:

- Civil Engineering, University of South Alabama, 2011
- Bachelor of Science, Civil Engineering, University of South Alabama, 2011
- MS coursework, Coastal Engineering, U. South Alabama, 2011-2012

Licenses and Certifications:

- Licensed Engineer Alabama, Florida

* Projects completed with previous firm.

Scott Hutchinson, PE

Vice President, Engineering

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

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

Education:

Bachelor of Science in Civil Engineering, Auburn University, 1992

Licenses and Certifications:

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

Environmental and Site Development Experience

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

Stormwater Management Experience

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

Solid Waste Experience

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

Roadway Experience

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

Diego A. Gaspard, EI

Project Engineer / Permitting

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

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

Education:

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

Master of Civil Engineering, University of South Florida, 2014

Licenses and Certifications:

Engineer in Training (EIT)

Stormwater Modeling Experience

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

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

Various Retail Centers & Restaurants Experience

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

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

* Projects completed with previous firm.

Matthew Archer, PE
Project Engineer

(813) 885-2032 matthew.archer@gmcnetwork.com

Matthew is a licensed Professional Engineer in GMC's Lutz office. He has six years of experience in the environmental and civil engineering field. He started working for a civil and environmental engineering firm after graduating college and immediately began working on various civil and environmental engineering projects for municipalities across the state. Project included residential drainage improvement projects, stream restorations, denitrification projects, and solar site permitting. Over the next few years, he developed a strong background in Civil 3D, ArcGIS, ICPR4 modeling, and BMPTrains.

In 2024, he joined Goodwyn Mils Cawood (GMC) and began working on development projects for both residential, industrial, and commercial uses. For his project engineer role at GMC, he creates site plans for various clients which include overall site plans, grading plans, utility plans, erosion and sediment control plans, drainage reports, and stormwater modeling results.

Education:
Bachelor of Arts, Engineering, University of Florida, 2018

Licenses and Certifications:
Professional Engineer: FL #97906

Commercial Experience
- Aldi Wellen Park
- Aldi Moccain Wallow
- Sunbelt Rentals – Brooksville, FL

Residential Experience
- Sherman Hills Phase 4A – Brooksville, FL
- Sherman Hills Phase 4B - Brooksville, FL
- 20th Street Subdivision – Zephyrhills, FL
- Maple Crossing Townhomes – Brooksville, FL

Industrial Experience
- Grove Creek 2.0 MGD WPCP – Commerce, GA
- Lakeland Airport Hangar – Lakeland, FL

Prior Work Experience
- Eagle Volusia Transmission Line Access Road – Volusia County, FL

* Projects completed with previous firm.

Lee Walters, PWS

Regional Vice President, Mobile

(251) 460-4006 lee.walters@gmcnetwork.com

Lee is one of only 15 current Professional Wetland Scientists in the State of Alabama - one of the most ecologically diverse states in the country, due in large part to the countless species inhabiting its wetlands. He assisted with the first commercial stream and wetland mitigation bank in Central Alabama and the first commercial stream mitigation bank in Mississippi, and has continued making great strides that have distinguished him as a leading expert in the profession. Lee works with many economic development organizations to assist with the recruitment of new industries to Alabama.

With extensive training and experience in the fields of biology and environmental science, Lee has served as project manager for numerous wetland determination/ delineations in Alabama, Mississippi and Georgia including flora and fauna identification and Section 404 wetland permitting with the U.S. Army Corps of Engineers. Lee has performed numerous Phase I Environmental Site Assessments for various entities including banks, law offices, private landowners, developers, and local/state governments and has assisted in numerous Phase II Environmental Site Assessments. He has also conducted endangered species surveys with the U.S. Fish and Wildlife Service.

Phase 1 Environmental Site Assessments

- Millard Refrigerating - Mobile, AL
- Enviva - Malcolm, AL
- United Food and Fuel (18 Citgo Gas Stations) - Across AL
- LS Power - Early County, Georgia
- Hyundai Motor Manufacturing of AL - Hope Hull, AL
- Waller Property - Montgomery, AL
- Hudson Farms - Montgomery, AL
- Whites Slough - Montgomery, AL

Phase 2 Environmental Site Assessments

- Maritime Science Center - Mobile, AL
- Millard Refrigerating - Mobile, AL
- Arrowhead Trading Post - Montgomery, AL
- Opelika Mills - Opelika, AL

Wetlands/Stream Land Management

- McLemore Mitigation Bank – Montgomery AL
- Black Swamp Mitigation Bank – Monroe County, MS
- Broadview Mitigation Bank – Macon County, AL
- MidCreeks Mitigation Bank – Barbour County, AL
- Cahaba River Mitigation Bank – Bibb County, AL
- Golden Dragon Mitigation – Pine Hill, AL
- The Waters at Waugh Mitigation – Waugh, AL
- Dubose Property – Montgomery, AL
- Robert Trent Jones/Conner Brothers – Opelika, AL
- Hampstead Property – Montgomery, AL
- Millard Refrigerating – Mobile, AL
- AIDT Maritime Science Center – Mobile, AL

Education:

Bachelor of Science in Wildlife Science, Auburn University, 1999

Licenses and Certifications:

Professional Wetland Scientist, AL #1601

Specialized Training:

- D'Olive Watershed Restoration Technology Workshop, March 2018
- D'Olive Watershed Restoration Technology Workshop, February 2016
- Current Topics in Wetland Soils and Application of Hydric Soil Indicators, March 2018
- Alabama Water Resources Conference, 2013
- Innovations in Urban Stream Restoration, November 2012
- Mobile Bay National Estuary Program Bays and Bayous Symposium, 2018
- Wetland Delineation and Training, 2004
- Stream Restoration Using Natural Channel Design
- Advanced Wetland Management Training, 2005
- Design Principles for Stream Restoration, 2005
- Advanced Hydrology and Soils, 2004
- Auburn University Deepwater Horizon Oil Spill Conference, 2010
- Stream Restoration Construction, 2008

Kevin Wales, PE

Executive Vice President, Geotechnical

(205) 879-4462 kevin.wales@gmcnetwork.com

Kevin, a civil engineer with more than 36 years of experience, launched GMC's Geotechnical and Construction Services division in 2004. As executive vice president and senior geotechnical engineer, he oversees operations, administration and business development related to geotechnical and construction testing. Throughout his career, Kevin has developed key strengths in the design and installation of shallow and deep foundations, construction services and project management for education, commercial, governmental, distribution, industrial, manufacturing and transportation projects.

Transportation

- County Road 14 Relocation – Atmore, AL
- Industrial Access Road – Oneonta, AL
- Industrial Access Road for Louisiana Pacific Corporation – Thomasville, AL
- United Toll Systems- Montgomery and Tuscaloosa, AL Toll Bridges
- County Road 35 Relocation – Ashland, AL
- Rex Lake Road Widening – Leeds, AL
- Highway 202 Widening – Anniston, AL
- Childersburg Industrial Access Road – Childersburg, AL
- Industrial Access Road – Wilcox County, AL
- Explorer Boulevard Extension – Huntsville, AL
- US 78 at Watson Drive Widening – Anniston, AL
- Northeast Opelika Industrial Access – Opelika, AL

Government/Municipal

- Fayetteville City Hall – Fayetteville, GA
- Coast Guard Hangar – Mobile, AL
- FBI Innovation Center - Redstone Arsenal, Huntsville, AL
- FBI Academic Zone - Redstone Arsenal, Huntsville, AL
- MSIC Material Exploitation Center - Redstone Arsenal, Huntsville, AL
- Raytheon RRMIF Expansion - Redstone Arsenal, Huntsville, AL
- Gainesville Public Safety Building - Gainesville, GA
- Douglasville City Hall - Douglasville, GA
- Fairburn Public Safety Building - Fairburn, GA
- RSA Annex Building - Montgomery, AL
- New Alabama State House Building - Montgomery, AL

Commercial/Industrial Distribution

- Creek Indian Enterprises New Resort/Hotel – Atmore, AL
- James Hardie Facility - Prattville, AL
- Lakeside Lodge – Clemson, SC
- Rivercane Development – Atmore, AL
- Metropolitan Industrial Park – Birmingham, AL
- Heflin Industrial Park – Heflin, AL
- South Industrial Park – Thomasville, AL
- Plastipak Packaging – McCalla, AL
- Oxford Exchange Retail Development – Oxford, AL
- Our Lady of Sorrows Catholic Church – Homewood, AL
- Tharptown Elementary School – Tharptown, AL
- Airpark Industrial Park – Shelby County, AL

Education:

Bachelor of Science in Civil Engineering, Auburn University, 1988

Licenses and Certifications:

Professional Engineer: AL #20146, GA #046948, MS #12692

Affiliations:

- American Society of Civil Engineers, Birmingham Branch, Past President, Vice President, and Secretary/Treasurer
- Associated Builders and Contractors (ABC)
- American Concrete Institute (ACI)
- City of Homewood Alabama Industrial Development Board

Consultants

Bridge Inspection

Severns Civil, LLC (SC) is a Florida-based, women-owned Disadvantaged Business Enterprise (DBE), certified through the Florida DOT's Unified Certification Program, as well as in Delaware and Tennessee. Specializing in transportation and marine infrastructure asset management, Severns Civil offers a wide range of services including independent technical reviews (ITRs) of bridge inspection reports (both topside and underwater), technical writing and research, and advanced underwater remote sensing solutions.

Their expertise extends to the use of underwater acoustic imaging and remotely operated vehicles (ROVs), with services that range from equipment rental to full-service imaging and training. Severns Civil actively partners with underwater inspection firms to enhance data collection in low-visibility environments, improving both safety and inspection accuracy.

Key practice areas include:

- Quality Management: Nationwide experience in ITRs of bridges, tunnels, and marine structures, with deep knowledge of Bridge Management Systems and Element Level inspection standards.
- Research and Reporting: Proven track record in producing high-quality technical reports and white papers for federal and state transportation agencies, academia, and industry organizations.
- Underwater Remote Sensing: Provision of cutting-edge sonar imaging equipment and operational support to supplement underwater inspections.

Severns Civil brings a combination of technical excellence, specialized equipment, and a collaborative approach to transportation infrastructure projects across the U.S. and internationally.

Survey

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

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

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

Kelley Severns, PE, PMP

Project Engineer / Bridge Inspection

(859) 433-9623 kelleyseverns@severnscivil.com

Ms. Severns brings over twenty-five years of experience in the transportation engineering field as a bridge design engineer, special projects engineer, and program manager for bridges and structures. She has experience working in a leadership role with national transportation associations on bridge and structures related research needs and program implementation. She also has expertise in developing structural specifications on a nationwide basis, having worked directly with state highway departments across the United States. She has been a strong program manager for several research projects for federal projects and programs. Expertise areas include:

- Strong understanding of Federal and State Research and Implementation
- Experience in Technology Delivery and Deployment
- Strong understanding of AASHTO specification processes
- Strong nationwide network of bridge engineers
- Extensive project management and program management experience

Professional Experience

Infrastructure Asset Management Business Development and Advisory Bridge Lead – Louis Berger Hawthorne Service, Inc (part of WSP) – November 2021 to Present

- Senior Bridge Technical Advisory for Southeast Region for Bridge and Highway Asset Maintenance Contracts
- Proposal and Capture Manager for Asset Maintenance and Management throughout the Southeast, with emphasis on bridge inspection, operations and maintenance services
- Technical report and research liaison for LBS for innovation and technology transfer in asset management

Freelance Technical Research and Writing – American Association of State Highway and Transportation Officials (AASHTO) – January 2020 to Present

- Performs Case Study Research and Technical Writing through an on-call contract with the AASHTO Center for Environmental Excellence - Environmental Technical
- Assistance Program (ETAP) and the National Operations Center of Excellence (NoCE).
- ETAP Newsletter Articles can be found here: https://etapnews.transportation.org/ and include the following topics among others: Broadband use in Right of Ways, Embodied Carbon in Transportation Projects, Green Streets to Preserve Watersheds, Migratory Bird Take Policy in Transportation Projects, Electric Vehicle Policy and Implementation, Rest Area Pollination Gardens, Environmental Justice Considerations and Funding Provisions for Transportation Projects, etc.
- NoCE Case Studies on best practices in Transportation Systems Management and Operations (TSMO) developed under this contract can be seen at https://transportationops.org/nocoe-case-studies

Assistant Vice President, Bridge Engineering Research Lead – WSP USA Complex Bridge Group, 2016 - 2019

- Project Manager for projects with approximately $5,000,000 in research funding.
- Directed National complex bridge research efforts and managed bridge and structures- related research projects for state departments of transportation, the Federal Highway Administration (FHWA), the National Cooperative Highway Research Program (NCHRP) and the American Association of State Highway and Transportation Officials (AASHTO).
- Participated in development of strategic plans for Complex Bridge Group and subgroups

Education:

- BSCE, University of Kentucky, Lexington, KY 1997
- MSCE, Structures Design, University of Kentucky, Lexington, KY 2000
- PhD Candidate, Transportation Management, Vanderbilt University, Nashville, TN (all but dissertation) 2011

Licenses and Certifications:

- Professional Engineer FL, TN, KY
- Project Management Professional (PMP)

Areas of Practice:

- Technical and Policy Research and Writing
- Bridge Research, Specification and Policy
- Program and Project Management
- Bridge Asset Management
- Bridge Digital Delivery (BIM)
- State and Federal Transportation Policy
- Pursuit and Proposal Management
- STEM Teaching
- Sailing Instruction
- Non-Profit Management

* Projects completed with previous firm.

David Severns, PE

Project Engineer / Bridge Inspection

(775) 790-0681 dave.severns@severnscivil.com

David (Dave) Severns is an accomplished bridge engineer with more than 34 years of experience in bridge inspection program development, management and administration, above water and underwater bridge inspection, structural and scour analysis, and quality control/quality assurance. Dave is experienced in all aspects of comprehensive bridge inspection programs, including policy development, asset management and programming, rehabilitation/replacement planning, development of inspection manuals and training programs, state and federal code adherence, over-dimensional permitting and load restriction posting, bridge scour analysis, and quality control/quality assurance. Dave's career includes more than 20 years with Nevada Department of Transportation, serving as the State Bridge Program Manager. His career also includes serving as a transportation engineer with the FHWA. He has written/developed numerous bridge inspection manuals and training programs for AASHTO, FHWA, and NHI, participated in numerous State DOT bridge program performance audits, including NBI data quality reviews, conducted bridge inspection training programs both inside the US and internationally, and worked with FHWA to develop the "23 Metrics" of bridge program compliance, currently in use throughout the United States.

Dave is also a formally trained commercial diver, possessing Association of Diving Contractors International (ADCI) Mixed Gas Diving Supervisor Certification, and has extensive experience in offshore, coastal, and inland environments. His career includes serving as a member of the ADCI Board of Directors, and Chairman of the ADCI Engineering Diving Committee, and has twice been awarded the ADCI President's Award for his accomplishments in advancing engineering diving within the commercial diving industry.

Underwater Inspection Experience

- FHWA Eastern Federal Lands Underwater Bridge Inspections, QA/QC Manager and Underwater Bridge Inspection Team Member, 2015-2016
- Canadian National Railway Underwater Bridge Inspections, QA/QC Engineer, 2016-2018
- Nottoway Reservoir Dam Inspection, Virginia Department of Military Affairs, Underwater Inspection Team Leader; Lead Acoustic Imaging Engineer, 2018
- Old Highway 80 Bridge Inspection, Vicksburg Bridge Commission, Underwater Inspection Team Leader; Lead Acoustic Imaging Engineer, 2017
- Underwater Waterfront Facility Inspections, U.S. Naval Facilities Engineering Service Center, QA/QC Manager, 2016
- Minnesota NBI Underwater Bridge Inspections, Parsons Brinckerhoff Quade & Douglas Inc., Project Manager; Inspection Team Leader, 1993
- Florida NBI Routine and Underwater Bridge Inspections, Parsons Brinckerhoff Quade & Douglas Inc., Bridge Inspection Team Leader, 1989-1992
- Florida NBI Underwater Bridge Inspections, Districts 1 and 7, Florida Department of Transportation, Bridge Inspector, 1986-1989
- Sunshine Skyway Bridge Underwater CEI and NBI Inventory Inspection, Districts 1 and 7, Florida Department of Transportation, Bridge Inspector, 1986-1988
- South Dakota NBI Underwater Bridge Inspections, Parsons Brinckerhoff Quade & Douglas Inc., Project Manager; Inspection Team Leader, 1992
- Utah NBI Underwater Bridge Inspections, Parsons Brinckerhoff Quade & Douglas Inc., Project Manager; Inspection Team Leader, 1992

Education:

- University of South Florida, Bachelor of Science, Geology, Tampa, Florida, 1983
- State of Nevada Civil Engineering Program, Graduate, Carson City, NV, 1997

Licenses and Certifications:

- Association of Diving Contractors International, Surface-Supplied Air Diving Supervisor
- Association of Commercial Diving Educators, Commercial Diver
- Professional Engineer – #19149, State of Hawaii; #1657-F, US Virgin Islands; #13969, State of Nevada
- American Association State Highway and Transportation Officials, National Bridge Inspection Task Force Member
- U.S. Department of Transportation, Federal Highway Administration, Policy Development Team Member

* Projects completed with previous firm.

William C. Ward, PLS
Professional Land Surveyor

TERRAMETRIX, LLC
SURVEYING.PLANNING.GEOMATICS

(813) 817-1115 wcwpls4815@hotmail.com

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

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

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

Education:

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

Licenses and Certifications:

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

Professional Associations:

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

HYDROGRAPHIC and MARINAS:

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

PORTS:

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

COMMERCIAL:

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

RECREATIONAL / GOVERNMENT:

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

LUXURY RESIDENTIAL HOMES AND CONDOMINIUMS:

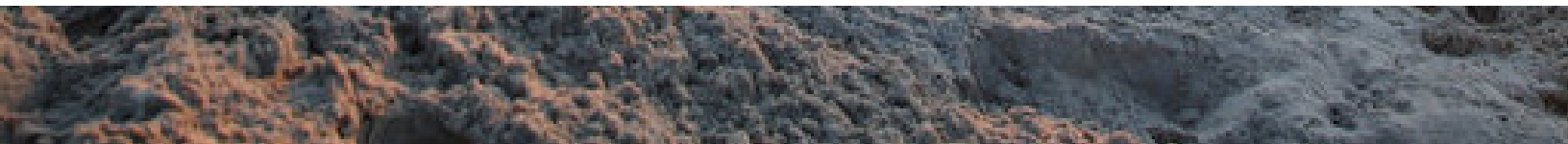
- Oceana at Treasure Island – K&P Holdings (30 million)
- Sanctuary at Allexandria Place – Taub Development (60 million)
- EPOCH – Seaward Development (60 million)
- Finale at Sand Key – Taub Development (24 million)
- Casa Michelle – Windstar Homes (6 million)
- Lovullo Residence – Windstar Homes (8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

EXPERT WITNESS:

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

Section 2

Proposed Management Plan



Proposed Management Plan

Scott K. Stannard, PE, serves as the project manager and oversees each phase of this project. He plays a crucial role in ensuring the successful execution of the plan and will also contribute technically to completion of the project. Below is a breakdown of how Scott manages work contained within the design and construction phases:

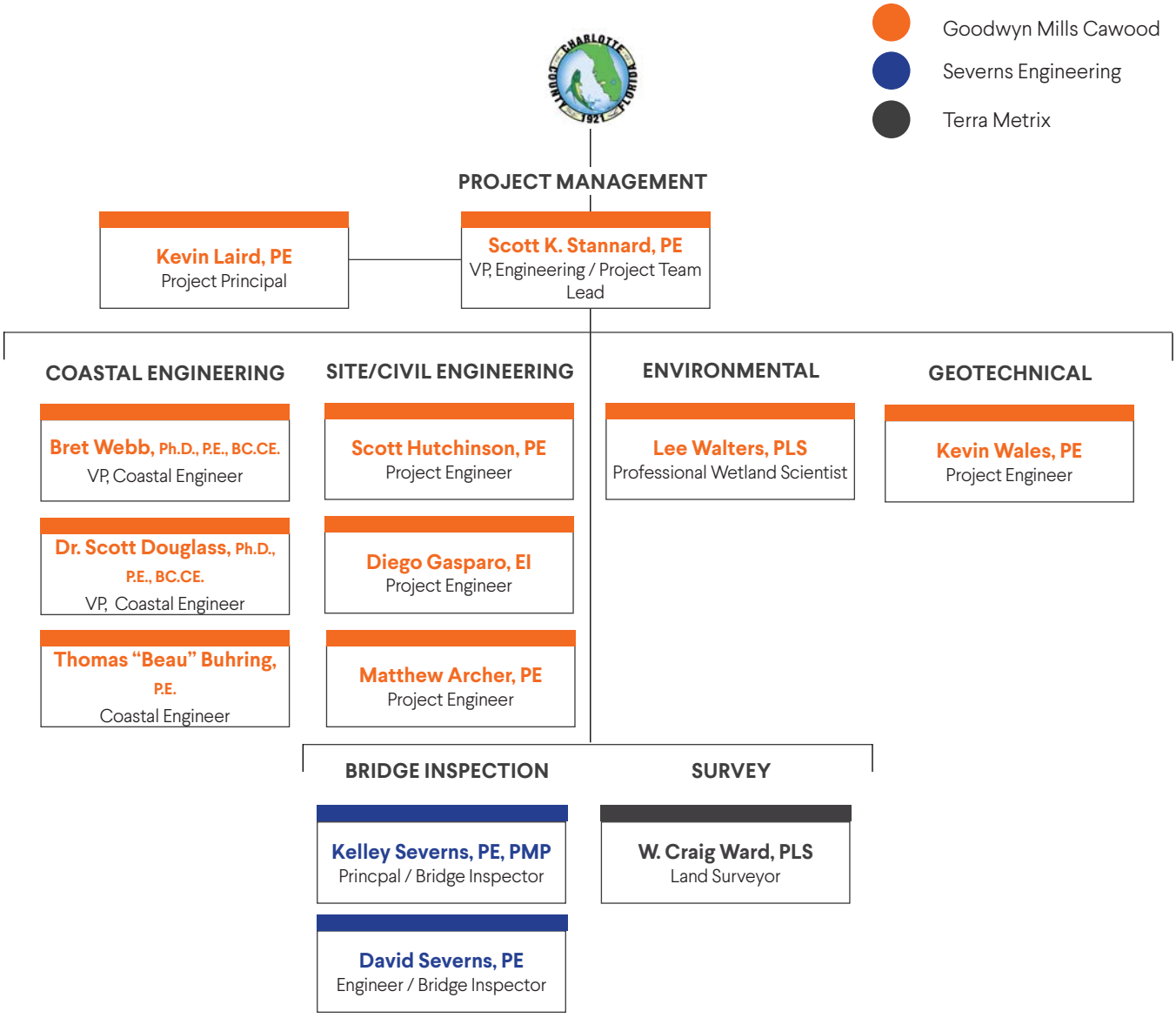
1. Design Phase:

Responsibilities:

- Oversees the development of 60% and 100% design plans, opinions of probable cost, and technical specifications for each bridge.
- Coordinates the work of all subdisciplines involved in the design.
- Manages the project schedule and budget.
- Oversees development of contract documents.
- Facilitate the preparation of bid documents.
- Assist in the County's bidding process.

Tasks:

- Regularly communicates with the design team to monitor progress and address issues.
- Conducts regular project status meetings to keep all stakeholders informed.
- Ensures that design elements align with the project objectives and meet regulatory requirements.
- Delivers the Engineering Bridge Repair Memorandums, 60% and 100% plans, and cost estimates for each bridge.



Scott Stannard, PE, the project manager is in charge of overseeing the construction phase of the project, he will play a crucial role in ensuring the successful execution of the plan. Below is a breakdown of how the Scott will manage the construction phase:

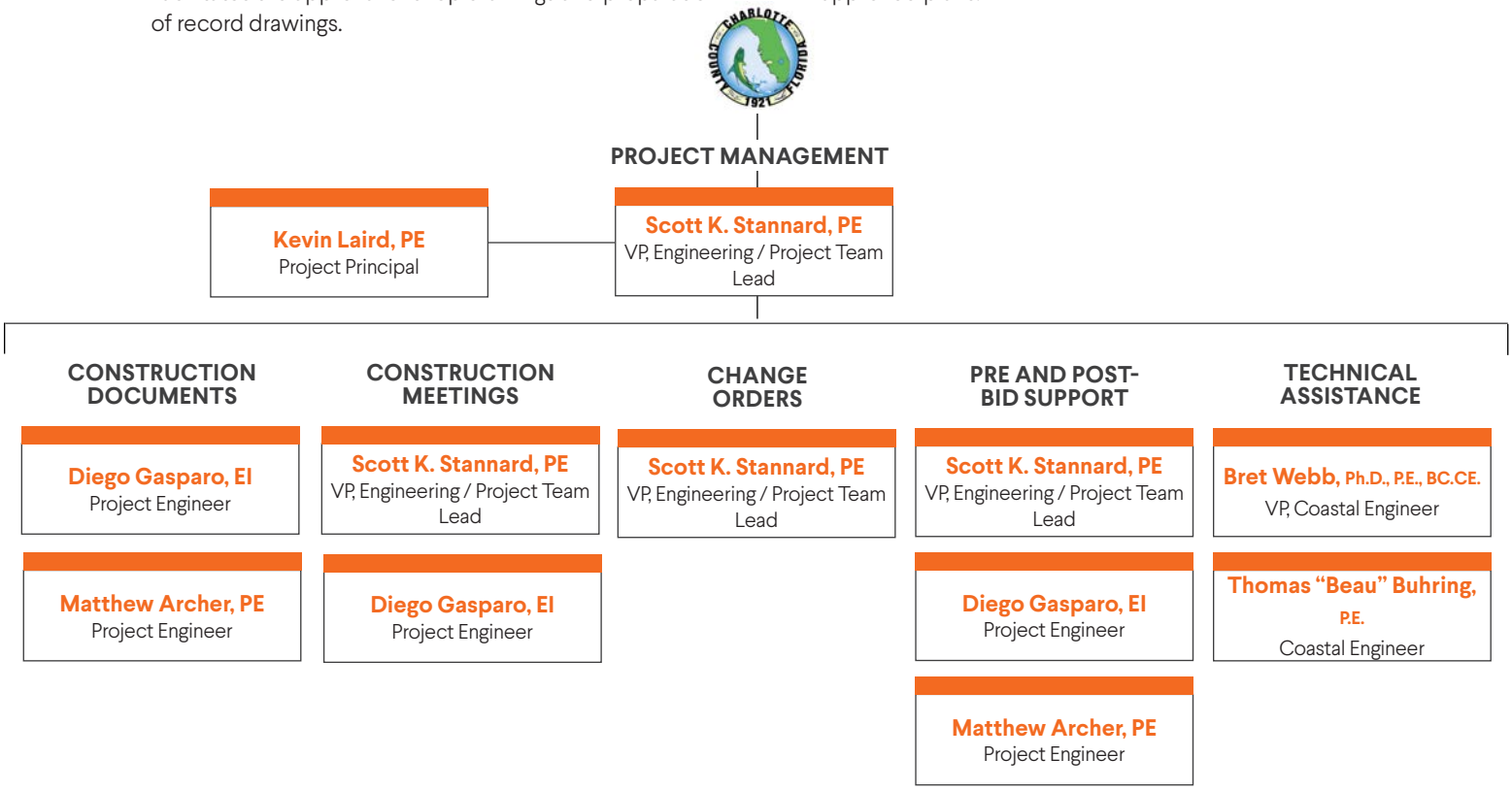
2. Construction Phase:

Responsibilities:

- Oversees the implementation of design plans.
- Coordinates with construction teams and sub-consultants.
- Ensures adherence to project specifications and timelines.
- Attends construction progress meetings.
- Participates in the preparation of change orders.
- Facilitates the approval of shop drawings and preparation of record drawings.

Tasks:

- Monitors construction progress and quality.
- Collaborates with County staff and the construction team to resolve challenges.
- Maintains open communication channels with relevant parties.
- Conducts site visits to ensure on-site activities align with the approved plans.



General Management Responsibilities Throughout Phases:

Communication:

- Regularly communicate with the entire project team, including subcontractors and consultants.
- Provide updates to the Kelly Slaughter, Projects Manager - Public Works, Jody Pressley, Projects Manager - Utilities, and Trevor Cole, Projects Manager - Facilities as required.

Risk Management:

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

Quality Control:

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

Budget and Schedule Management:

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

Stakeholder Engagement:

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

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

Section 3

Previous Experience of Team Proposed for this Project

Previous Experience of Team Proposed for this Project

Goodwyn Mills Cawood (GMC) offers a highly qualified team with extensive experience in scour analysis and the design of scour countermeasures for coastal and inland bridges. Our team includes nationally recognized experts in the field of hydraulic engineering, and our experience spans over two decades of work with FDOT and other transportation agencies. We have a strong record of applying the most current FHWA, FDOT, OSHA, and Coast Guard standards in all aspects of design, inspection, and repair planning.

Relevant Project Experience and Technical Leadership:

FDOT Projects (20+ years of experience)
Our team has applied FDOT's Bridge Scour Manual and related methodologies in numerous bridge evaluations, including BHR (Bridge Hydraulics Reports), scour reviews, and erosion control studies across the state.

Example Projects:

- SR30E (PD&E Phase): Scour and erosion countermeasure design
- Pensacola Bay Bridge (DBB pursuit): Comprehensive scour analysis and scour protection design
- Bridge hydraulics reviews for FDOT D3

Multi-State Bridge Scour Analysis and Studies
GMC staff have led major scour assessments for state DOTs across the Southeast, including:

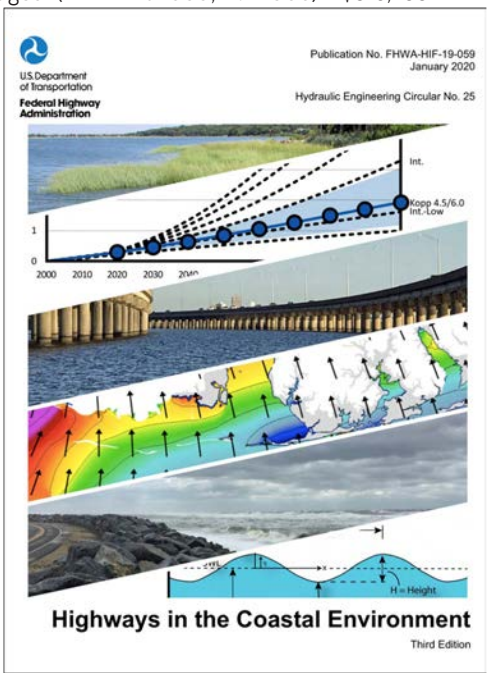
- Mobile I-10 Bayway (DBB pursuit): Comprehensive scour analysis
- Mississippi DOT: BHR studies for bridges over the Wolf River (I-10), Jourdan River, Biloxi Back Bay (I-110), Tchoutacabouffa River (I-10), and Parker Bayou (I-10)
- MSDOT Nature-Based Solutions Pilot Study: Innovative scour countermeasures for Henderson Point Bridges (US Hwy 90/98)

Federal Highway Administration (FHWA) Research and Technical Assistance
Our technical staff, including Dr. Bret Webb, have contributed to FHWA research and federal projects involving complex scour mechanisms:

- Indian River Inlet Bridge (DE) and Bonner Bridge (NC): Scour-related failure mitigation and replacement design
- Francis Scott Key Bridge (MD): Scour design support through TFHRC
- Research Project: "Exploratory Research on Wave Induced Scour at Coastal Bridges" (FHWA-funded; PI: Webb) – $316,288

Publications and Technical Leadership:

- HEC-25, 3rd Edition: GMC staff authored this federal guidance for the design and planning of coastal highways and bridges, including an entire chapter on coastal bridge scour and countermeasures based on FDOT standards.
- TRB Papers on Coastal Scour:
  - Webb & Matthews (2014): "Wave-induced scour at cylindrical piles" – Transportation Research Board
  - Webb (2010): "Wave induced scour at coastal infrastructure" – National Hydraulic Engineering Conference



These experiences directly align with the Charlotte County project scope, particularly the evaluation and design of scour countermeasures for the Tom Adams Beach Road Bridge, Midway Boulevard Bridge, and CR775 Bridge. Our team's deep understanding of coastal and inland scour processes, combined with a track record of high-quality deliverables—such as engineering repair memoranda and countermeasure design—positions GMC to be a trusted partner for this critical work.

Severns Civil brings specialized expertise in bridge inspection, scour evaluation, and quality control review services that directly support the scope of services requested by Charlotte County. Led by Kelley Severns, a Florida-licensed Professional Engineer and Certified DBE/WBE, and David Severns, a Certified Bridge Inspector with up-to-date NBIS and bridge inspection training, the firm offers a depth of experience in both field assessments and technical quality assurance for scour-related bridge infrastructure projects.

Relevant Experience:

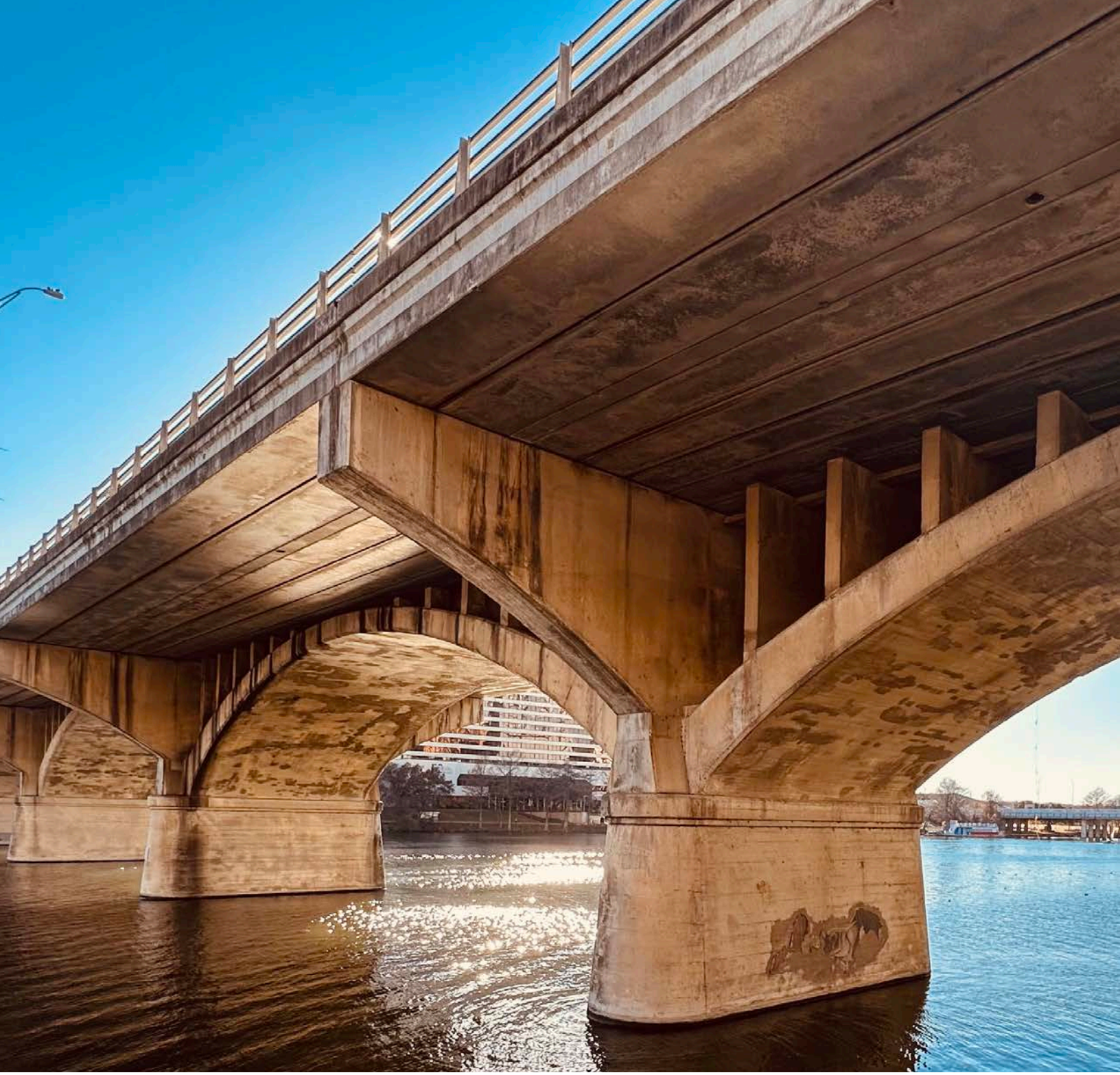
Delaware Department of Transportation – Statewide Underwater Bridge Inspections
Subcontractor to KCI Technologies | January 2024 – Present
Severns Civil is currently performing Independent Quality Reviews for all underwater and low-clearance bridge inspection reports across the state in compliance with National Bridge Inspection Standards (NBIS). Additionally, Severns Civil provides Team Leader services for on-site inspections. These reviews ensure consistent application of FHWA and state-level inspection criteria, a critical aspect of developing sound scour countermeasure designs.

Underwater Acoustic Imaging Services (Florida) – 2023–Present
Severns Civil provides advanced underwater imaging equipment and interpretation services to engineering firms such as Stantec and KCI Technologies. These services support detailed assessment of submerged bridge elements—essential for the development of effective scour mitigation designs and rehabilitation plans.

Certifications and Capabilities:

- Licensed Florida Professional Engineer (Kelley Severns)
- Certified DBE / WBE in the State of Florida
- Certified Bridge Inspector with current NBIS refresher training (David Severns)

Severns Civil is a trusted partner with the technical acumen and practical experience necessary to support Charlotte County's bridge scour mitigation efforts. Their proven performance on DOT-level scour, inspection, and QA/QC assignments aligns well with the expectations and standards set forth in the RFQ.



Section 4
Project Control

Smart STEPs

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

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

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

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

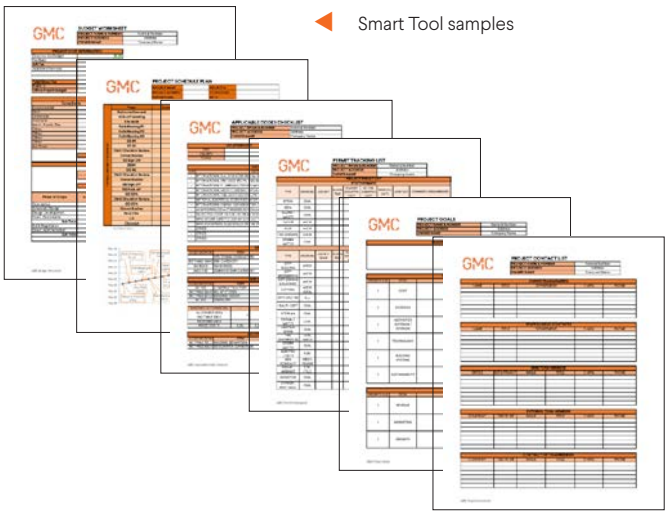
Below is a brief example of the Smart STEPs tools .


GMC

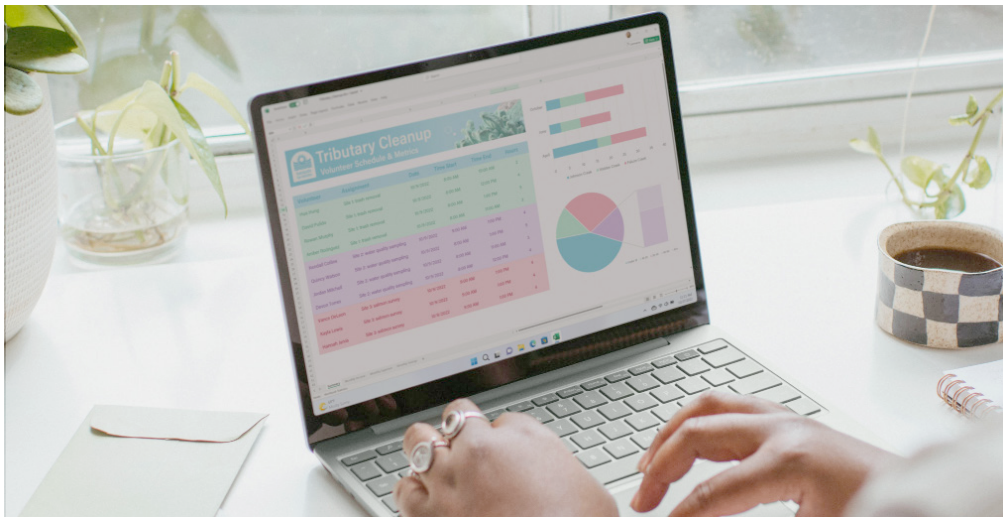
DESIGN STATUS UPDATE

▲ Design Status Update provides consistent communication throughout the design to improve transparency and accountability throughout the team. Includes the following:

1. Design Status Summary
2. Overall Milestone Schedule
3. Scheduled & upcoming meeting
4. Owner-related items critical to the project
5. Action Items list with responsible parties


GMC

◀ Smart Tool samples



> Cost control does not inhibit one's creativity; economy is a major consideration, not a constraint.

Budget Management

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

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

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

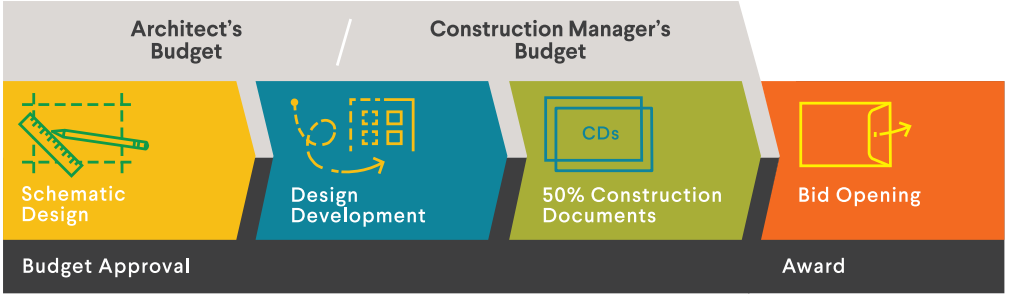
Predicting costs at programming is not difficult since total planning proceeds from the general to the specific — from the broad scope to the detailed scope. During programming, cost estimates are made by successive approximations from a rough tally of gross area (and testing it with different quality levels of construction) while keeping an eye on building cost and other anticipated expenditures.

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

At the Schematic Design Phase, we will include a contingency of 10% to 12% of the construction value to account for unknowns which crop-up in subsequent phases. At the completion of the Design Development Phase this Design Contingency is usually reduced to 5% to 7%. Just prior to bidding, the Design Contingency in the budget, is usually adjusted to 5% to account for market fluctuations. We find it prudent to carry a Construction Contingency of 3% to 5% to allow for market fluctuations that may occur during construction, which become more pronounced as the building size increases.

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

Budget Management



Firm Workload

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

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

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

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

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

Accessibility of project manager and key personnel

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

Scott Stannard, PE, Vice President / Project Manager
21764 State Rd 54
Lutz, FL 33549
M (813) 334-9413

Ability to meet accelerated timeline and budget restraints

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

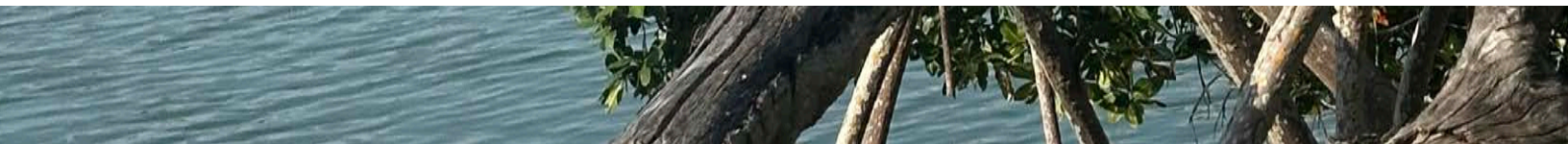
Our team has been highly successful in maintaining costs on a variety of engineering projects. The ability to do so directly relates to our experience, as well as our planning and preparation before the project begins.

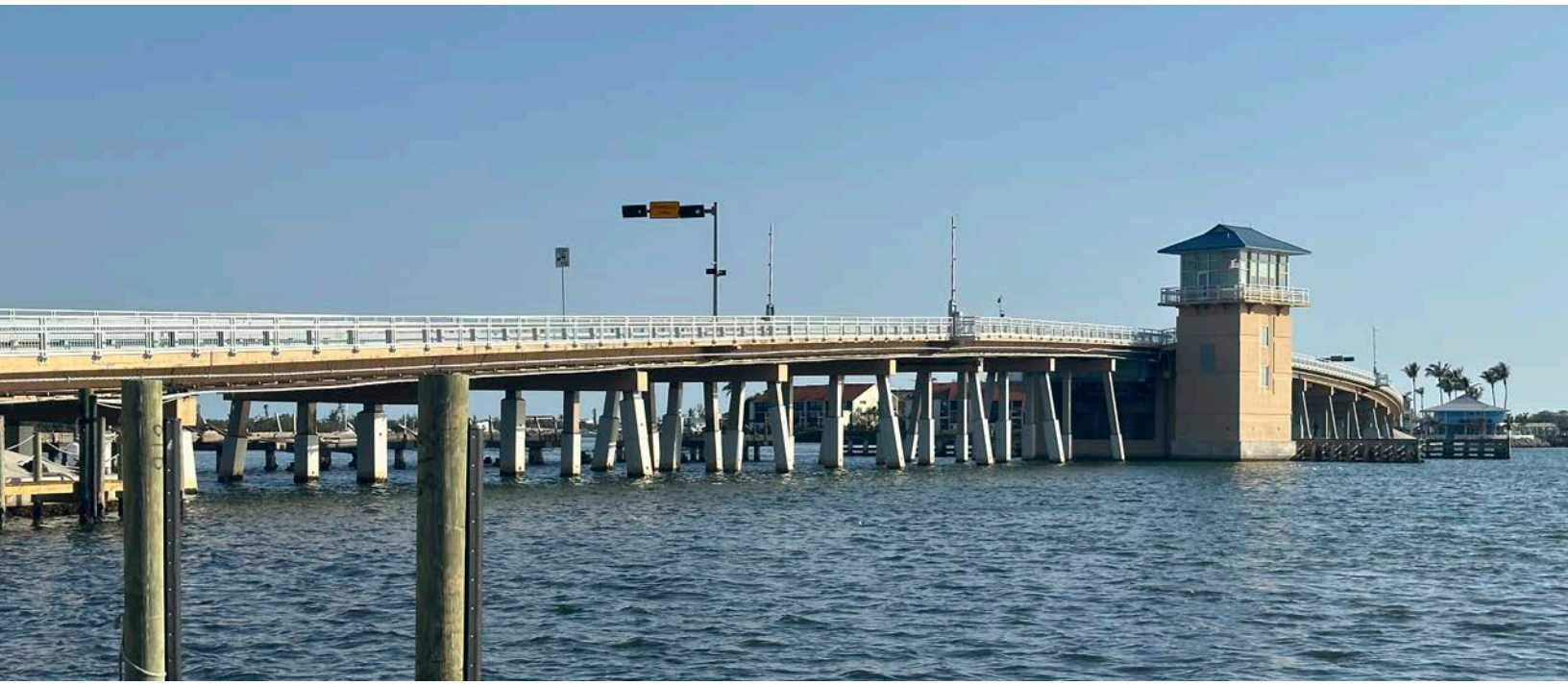
On the right, you will find an overview of our recent, ongoing, and anticipated workload. We are well-positioned to accommodate new projects seamlessly without disrupting our current commitments.

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

Section 5

Proposed Approach





Project Approach

▲ Tom Adams Bridge, Beach Road - Englewood, Florida

Project Kickoff and Data Collection

Task 1.1: Kickoff Meeting

- Conduct a meeting with stakeholders, including Charlotte County officials and relevant state agencies, to confirm objectives, project scope, and communication protocols.
- Establish project milestones, deliverables, and quality assurance procedures.

Task 1.2: Existing Data Review

- Gather and review existing bridge design plans, inspection reports, hydrologic and hydraulic data, previous scour studies, and geotechnical data.
- Identify knowledge gaps and additional data requirements.

Task 1.3: Site Reconnaissance

- Perform site visits to assess current bridge conditions, channel morphology, hydrologic conditions, and evidence of scour or previous mitigation efforts.
- Document observations with photographs, videos, and detailed notes.
- Perform underwater bridge inspections

Scour Analysis and Risk Assessment

Task 2.1: Hydraulic and Hydrologic Modeling

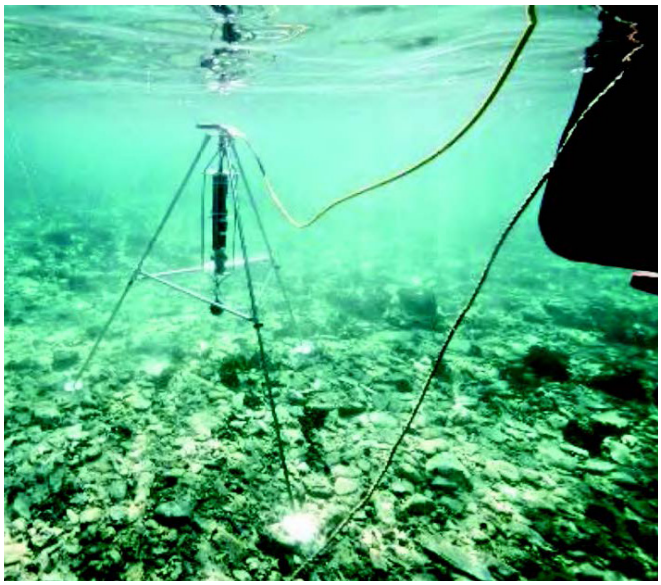
- Develop or refine hydraulic and/or hydrodynamic models (e.g., SRH-2D, ADCIRC+SWAN, etc.) for the project sites to simulate flow conditions under varying scenarios, including extreme events.
- Incorporate tidal influences, storm surge, and sea level rise projections relevant to the coastal environment.

Task 2.2: Scour Depth Estimation

- Perform detailed scour depth calculations for each bridge using methods outlined in the FDOT Bridge Scour Manual and in keeping with guidance outlined in HEC-25 3rd Edition.
- Evaluate all relevant scour contributions at piers and abutments (long-term morphological change; contraction scour; local scour; etc).

Task 2.3: Risk Prioritization

- Rank bridges based on scour vulnerability, using factors like structural importance, traffic volume, and risk to public safety.



Development of Scour Countermeasure Designs

Task 3.1: Countermeasure Selection

- Evaluate feasible scour countermeasures, such as riprap, articulated concrete blocks, marine mattresses, proprietary products, and recommendations from County staff.
- Tailor recommendations to the environmental conditions and structural characteristics of each bridge.

Task 3.2: Preliminary Design & 60% Plans

- Develop and submit draft Engineering Bridge Repair Memorandums, for each bridge, for review by County staff.
- Prepare preliminary designs for selected countermeasures, including typical sections, material specifications, quantities, and opinions of probable cost.
- Address environmental permitting requirements and construction feasibility.
- Prepare and submit 60% design plans for each bridge.

Task 3.3: Final Design & 100% Plans

- Revise and resubmit Engineering Bridge Repair Memorandums for each bridge.
- Refine designs based on feedback from stakeholders and regulatory agencies.
- Provide detailed engineering drawings, technical specifications, and updated cost estimates.
- Submit 100% design plans for each bridge.

Permitting and Regulatory Coordination

Task 4.1: Regulatory Review

- Identify applicable regulatory requirements, such as those from the Florida Department of Environmental Protection (FDEP), Army Corps of Engineers, and local agencies.

Task 4.2: Permit Applications

- Prepare and submit permit applications, including documentation on environmental impact assessments and proposed mitigation measures.

Construction Support Services

Task 5.1: Bid Assistance

- Develop bid documents, respond to contractor inquiries, and assist in contractor selection.

Task 5.2: Construction Oversight

- Provide construction observation to ensure adherence to design specifications and attend Construction Progress Meetings as instructed by the County.
- Address unforeseen site conditions and modify designs as necessary.
- Review and approve shop drawings.
- Assist in the preparation of Change Orders.
- Prepare Record Drawings.

Deliverables and Schedule

Key Deliverables:

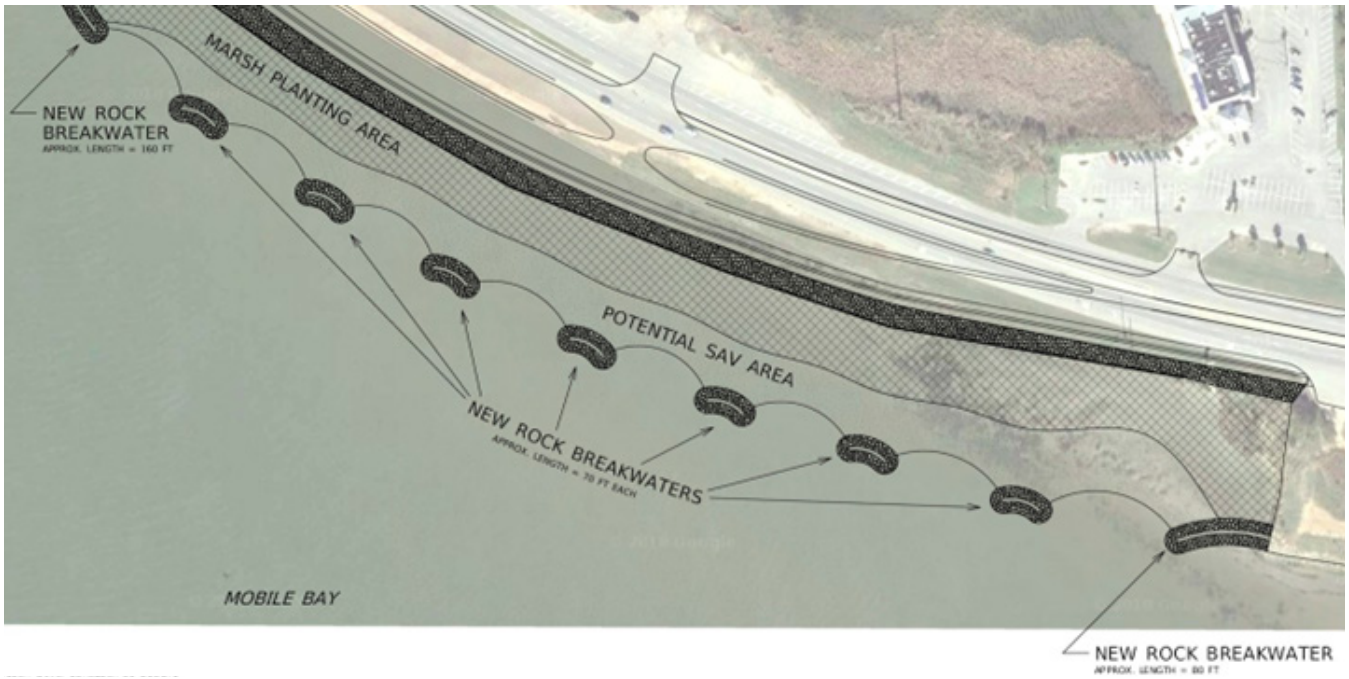
- Engineering Bridge Repair Memorandums
- 60% and 100% design plan submittals
- Engineer's opinion of probable cost
- Engineering plans and technical specifications
- Construction documentation
- Applicable permits from USACE, FDEP, etc.

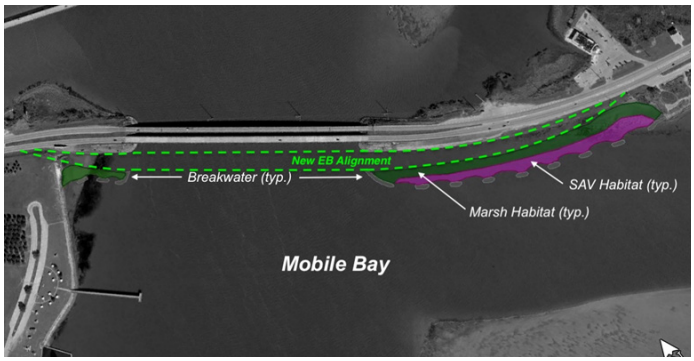
General Schedule

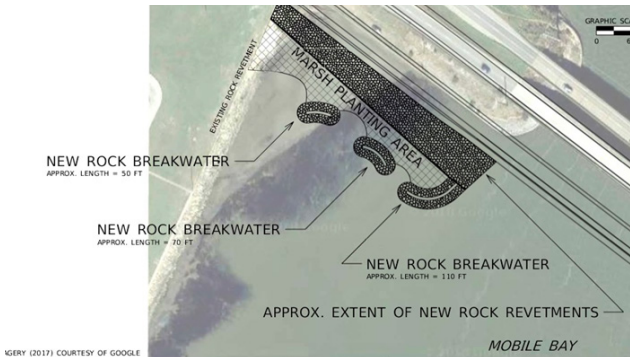
PROJECT AWARD	
Task	**Duration**
TASK 01 - PROJECT KICKOFF AND DATA COLLECTION	**1 - 2 MONTHS**
◆ Task 1.1: Kickoff Meeting	
◆ Task 1.2: Existing Data Review	
◆ Task 1.3: Site Reconnaissance	
TASK 2 - SCOUR ANALYSIS AND RISK ASSESSMENT	**MONTH 3-5**
◆ Task 2.1: Hydraulic and Hydrologic Modeling	
◆ Task 2.2: Scour Depth Estimation	
◆ Task 2.3: Risk Prioritization	
TASK 3 - DEVELOPMENT OF SCOUR COUNTERMEASURE DESIGNS	**MONTH 6-8**
◆ Task 3.1: Countermeasure Selection	
◆ Task 3.2: Preliminary Design & 60% Plans	
◆ Task 3.3: Final Design & 100% Plans	
TASK 4 - PERMITTING AND REGULATORY COORDINATION	**MONTH 9 -10**
◆ Task 4.1: Regulatory Review	
◆ Task 4.2: Permit Applications	
TASK 5 - CONSTRUCTION SUPPORT SERVICES	**MONTH 11 - 12**
◆ Task 5.1: Bid Assistance	
◆ Task 5.2: Construction Oversight	

Section 6

Examples of Recently Accomplished Similar Projects







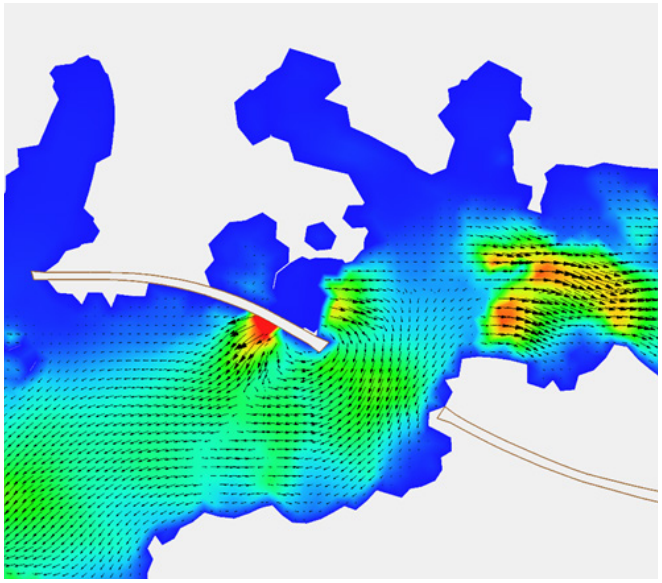
Nature-based Alternatives for the Tensaw River Bridge

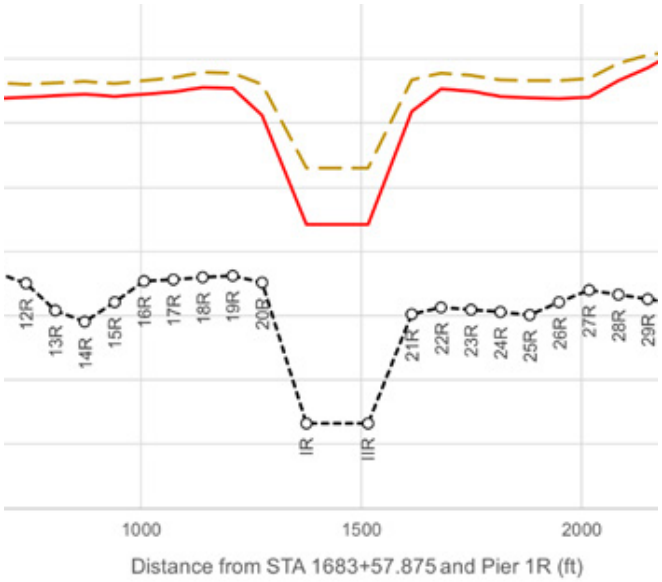
Goodwyn Mills Cawood, formerly South Coast Engineers, assisted the US Department of Transportation Federal Highway Administration (USDOT FHWA), the FHWA divisional office in Alabama, and the Alabama Department of Transportation (ALDOT) in developing a nature-based alternative to provide scour protection and environmental impact mitigation. As part of an anticipated bridge replacement and realignment of the US Highway 98 crossing of the Tensaw River in Mobile Bay, Alabama, we were asked to develop a nature-based solution as an alternative to a traditional seawall and approach embankment scour protection. The nature-based solution would also serve as compensatory mitigation for direct and indirect impacts to submerged aquatic vegetation as a result of the new highway, approach, and bridge realignment. We conducted a series of stakeholder meetings, and a site visit, to determine overall goals, project constraints, and technical feasibility. We then developed five unique conceptual design alternatives, which were subsequently evaluated using six objective criteria and then ranked to determine the most desirable nature-based design. We were ultimately able to demonstrate, quantitatively, the multiple ecological and resilience benefits of the nature-based solution as opposed to traditional embankment protection designs, including an overall reduction in the cost of materials.

Location: Mobile, Alabama
Status: Completed 2018
Cost: $20,000

Contact:
Becky Lupes
USDOT FHWA
Resilience Team Leader
(202) 366-7808
Rebecca.Lupes@dot.gov

Phase 1 and Phase 2 Scour Analysis for Interstate 10 Bridges over Parker Bayou and Tchoutacabouffa River





Location: Mississippi
Status: Completed 2020
Cost: $56,000

Contact:
Mississippi DOT
Amanda Farmer
State Hydraulics Engineer
(601) 359-7201
mnfarmer@mdot.ms.gov

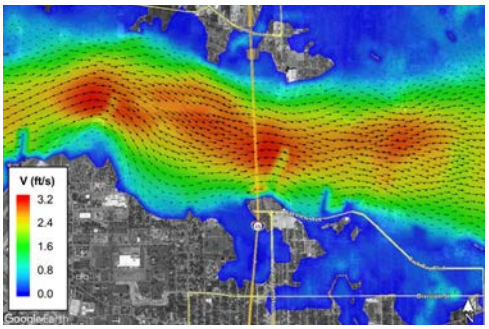
Goodwyn Mills Cawood, formerly South Coast Engineers, completed an assessment of hydraulic conditions and scour potential at four Interstate 10 bridges for the Mississippi Department of Transportation. We were part of a larger team that evaluated scour potential and bridge hydraulics for both the riverine and coastal flood hazards. The Phase 1 and Phase 2 scour assessments addressed abutment and pier scour potential along four separate bridges that make up the Interstate 10 alignment crossing the Tchoutacabouffa River and Parker Bayou. In addition to the scour assessments, we investigated the vulnerability of bridge superstructures to wave attack during the 50-, 100-, and 500-year return period coastal storm events. This work involved original modeling of storm surge, currents, and waves using the dynamically coupled ADCIRC+SWAN models and incorporated watershed inputs to capture stronger ebb-directed flows that can drive large scour events late in the storm. Because these bridge alignments are located some distance from the coast, an independent assessment of riverine conditions was also performed (by our teaming partners). The results of the coastal and riverine Phase 2 scour assessments were compared to determine which flood hazard source dominated scour conditions at the bridge foundations.

Phase 1 and Phase 2 Scour Analysis for Interstate 110 Biloxi Back Bay Bridges

Location: Biloxi, Mississippi
Status: Completed 2020
Cost: $134,000

Contact:
Mississippi Department of Transportation
Amanda Farmer, State Hydraulics Engineer
(601) 359-7201
mnfarmer@mdot.ms.gov

Goodwyn Mills Cawood, formerly South Coast Engineers, completed the first comprehensive, modern coastal bridge hydraulics study for the Mississippi Department of Transportation. The Phase 1 and Phase 2 scour assessments addressed abutment and pier scour potential along seven bridge alignments that make up the Interstate 110 alignment crossing Biloxi Bay, MS. In addition to the scour assessments, we investigated the vulnerability of bridge superstructures to wave attack during the 50-, 100-, and 500-year return period coastal storm events. This work involved original modeling of storm surge, currents, and waves using the dynamically coupled ADCIRC+SWAN models and incorporated watershed inputs to capture stronger ebb-directed flows that can drive large scour events late in the storm.



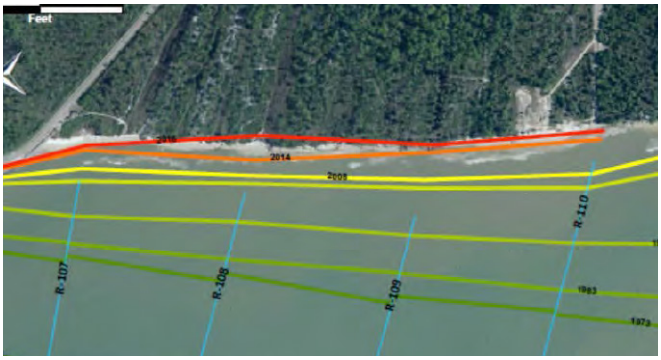
SR30E Planning and Engineering Design Study

Location: Cape San Blas, Florida
Status: Completed 2019

Contact:
Dean Mitchell, PE
GEC Project Manager
FDOT
(850) 415-9016
Dean.Mitchell@dot.state.fl.us

Goodwyn Mills Cawood, formerly South Coast Engineers, in collaboration with Volkert and the Florida Department of Transportation, conducted a Planning and Engineering Design Study for a section of State Road 30E along St. Joseph's Peninsula, specifically addressing Stump Hole—one of America's most rapidly eroding shorelines. The study involved a thorough analysis of shoreline change, local sand transport, coastal hazards, and other related coastal processes to inform the future of the road and develop proposed solutions.

The team developed a hybrid nature-based solution design that would create emergent sandy shoreline habitat to protect the road in the short term while enhancing resilience against future shoreline retreat. Our team's services included analyzing coastal engineering design conditions to characterize extreme event water levels, performing surge+wave modeling of coastal hazards under present and future sea level scenarios, and projecting shoreline change to guide design decisions. Additionally, we designed a nature-based solution to prevent flanking of the roadway revetment protection and slow the rate of shoreline retreat, offering a sustainable approach to safeguarding the infrastructure.



PREVIOUS FIRM RELEVENT EXPERIENCE
(DAVID SEVERNS)

Hawaii DOT Bridge Inspection Report Independent Technical Review (ITR) Services – Statewide Hawaii

Role: Project Manager and Bridge QA/QC Engineer | Dates Involved: 2023-Present

Conducted ITR reviews of approximately 650 NBIS Underwater, NSTM, Post Event, and Routine bridge inspection reports located throughout the State of Hawaii, as developed by both DOT and consultant forces. Work included development of review comments, Comment resolution with inspectors and the DOT, as well as leading monthly training and review meetings with HDOT and consultant engineers located throughout Hawaii.

Hawaii DOT Bridge Scour Quality Control/Quality Assurance Review Services – Statewide Hawaii

Role: Project Manager; Bridge Engineer | Dates Involved: 2023-Present

Project Manager over this Project Assignment to develop a Quality Control Plan (QCP) to be followed during the assembly and evaluation of all Scour Evaluation Reports (SERs) and Plans of Action (POAs) on all bridges within the State of Hawaii, as well as to conduct Quality Control reviews of approximately 900 scour SERs and POAs as developed my multiple vendors. Tasks include development of the QCP, development of review comments for each document, highlighting missing and/or erroneous assumptions, data, and conclusions, and working with the developing vendors to successfully resolve each comment, thereby increasing the consistency and quality of the evaluations and resulting documents.

Section 6

Experience and Capabilities

Value Engineering

Value engineering is most effective when seamlessly integrated with budget estimating and option analysis, ensuring that you receive cost-effective solutions without compromising project quality. GMC applies value engineering throughout the entire design process, continuously identifying opportunities to enhance functionality, improve efficiency, and control costs while meeting your needs. Key elements include selecting the right materials, adopting innovative design strategies, and conducting thorough market analysis to support informed decision-making. By implementing value engineering early, GMC achieves significant savings in both time and cost, reducing the likelihood of expensive changes during bidding or construction. If a project bids above budget, GMC collaborates with you to explore alternative solutions that reduce costs, always maintaining the project's integrity and your established goals and outcomes.

PowerSouth Florida Wetland Delineation

Life Cycle Cost Analysis

GMC conducts in-progress and comprehensive project life-cycle cost analysis to assess the long-term financial impact of design decisions, helping you identify the most cost-efficient solutions over the entire life of your building. Life Cycle Cost Analysis is used to evaluate project alternatives that fulfill the same performance requirements, serving as a practical decision-making tool. For example, GMC may recommend a higher-efficiency window glazing that increases initial cost but provides significant energy savings over the building's life. The team employs a system of checks and balances among all design consultants to explore life-cycle cost alternatives, ensuring that the best solutions are mutually agreed upon and presented for your review.

Corkscrew Swamp Wildlife Assessment
Naples, FL

Environmental Assessment

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

Stetson Living Shoreline
Lake Beresford FL

Specialized Experience

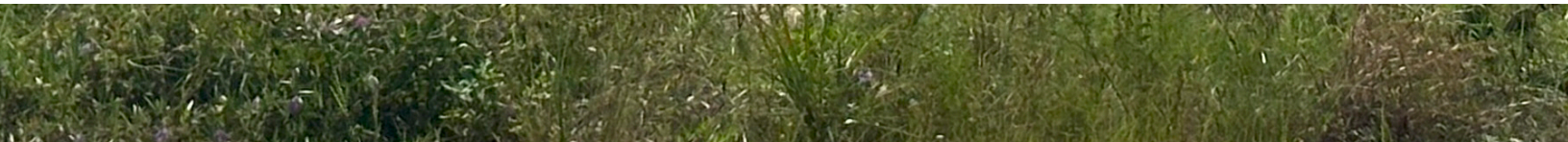
You can rely on GMC's specialized expertise in coastal engineering to deliver comprehensive solutions for bridge scour studies and countermeasures in challenging coastal environments. Our coastal engineering team brings decades of experience in the planning, design, and assessment of resilient transportation infrastructure, with a particular focus on bridges exposed to coastal hazards such as scour, erosion, storm surge, and wave action.

GMC's Board-Certified Coastal Engineers have authored federal guidance for the planning and design of coastal highways and bridges, including the USDOT FHWA's HEC-25 series, and have developed and applied advanced hydrodynamic and sediment transport modeling tools to evaluate the vulnerability of bridges to extreme events and sea level rise.

Wildlife Hazard Risk Assessment
Immokalee, FL

Section 7

Volume of Work

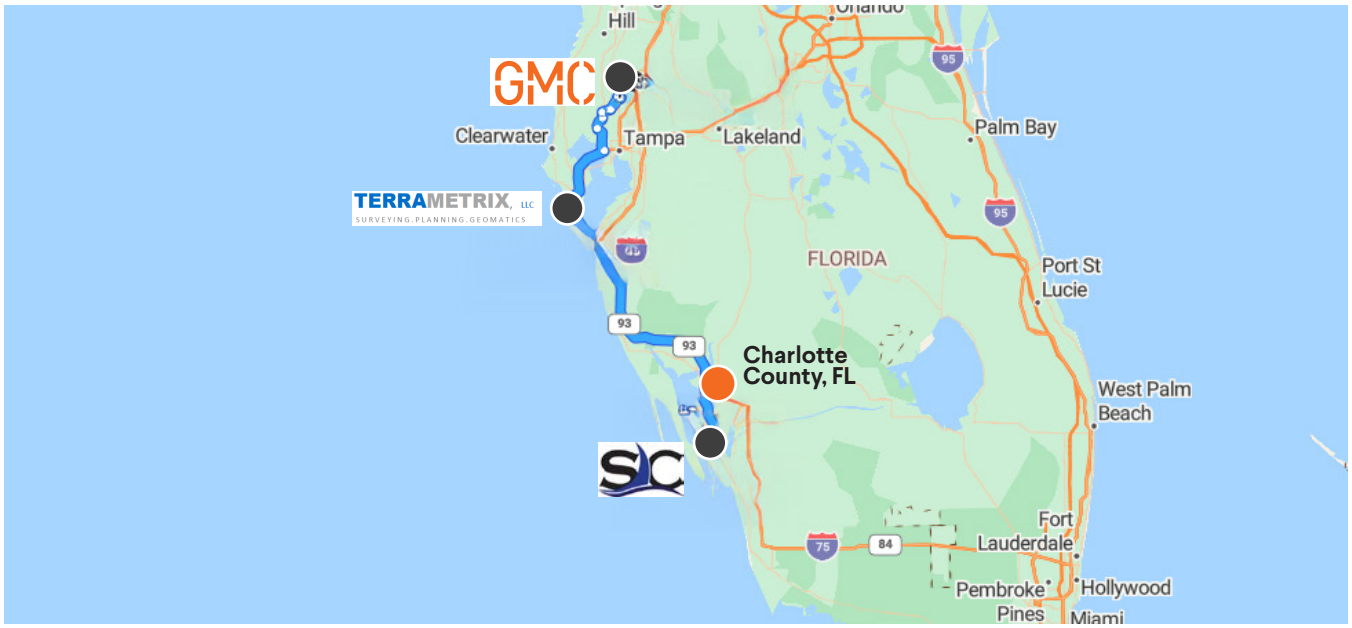


Magnitude of Charlotte County Projects

While Goodwyn Mills Cawood has not previously been engaged by Charlotte County, we bring over 20 years of specialized experience in bridge scour evaluation and the design of effective scour countermeasures. Our firm has successfully delivered similar services—ranging from scour analysis and alternative evaluation to permitting, design, and construction support—for a variety of clients and bridge structures across the Southeast. We welcome the opportunity to apply this expertise to support Charlotte County's goals for the Thom Adams Beach Road Bridge over Lemon Bay, the Midway Boulevard Bridge over North Spring Lake, and the CR775 Bridge over Ainger Creek.

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

Section 8
Location



Proximity to the Project

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

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

Accessibility of project manager and key personnel

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

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Lutz, FL 33549
M (813) 334-9413

Goodwyn Mills Cawood
21764 State Rd 54
Lutz, FL 33549

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

Severns Civil
5325 SW 10th Ave
Cape Coral, FL 33914

Section 9
Litigation

LITIGATION HISTORY

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

GMC is a nationally recognized architecture and engineering firm. Although GMC's involvement in claims and lawsuits is extremely infrequent (0.001%) compared to our volume of projects and due to the risk management and quality control efforts of our teams, litigation in which we are a party does occur from time to time. On these rare occasions we consider these matters confidential between our firm and our clients, and we are not allowed to disclose information on specific cases. We also maintain general and professional liability, workers' compensation and automobile insurance in sufficient limits to cover any outstanding claims or lawsuits. Our legal counsel fully anticipates that any such claims will be resolved well within the policy limits. There are no unsatisfied judgments against GMC.

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

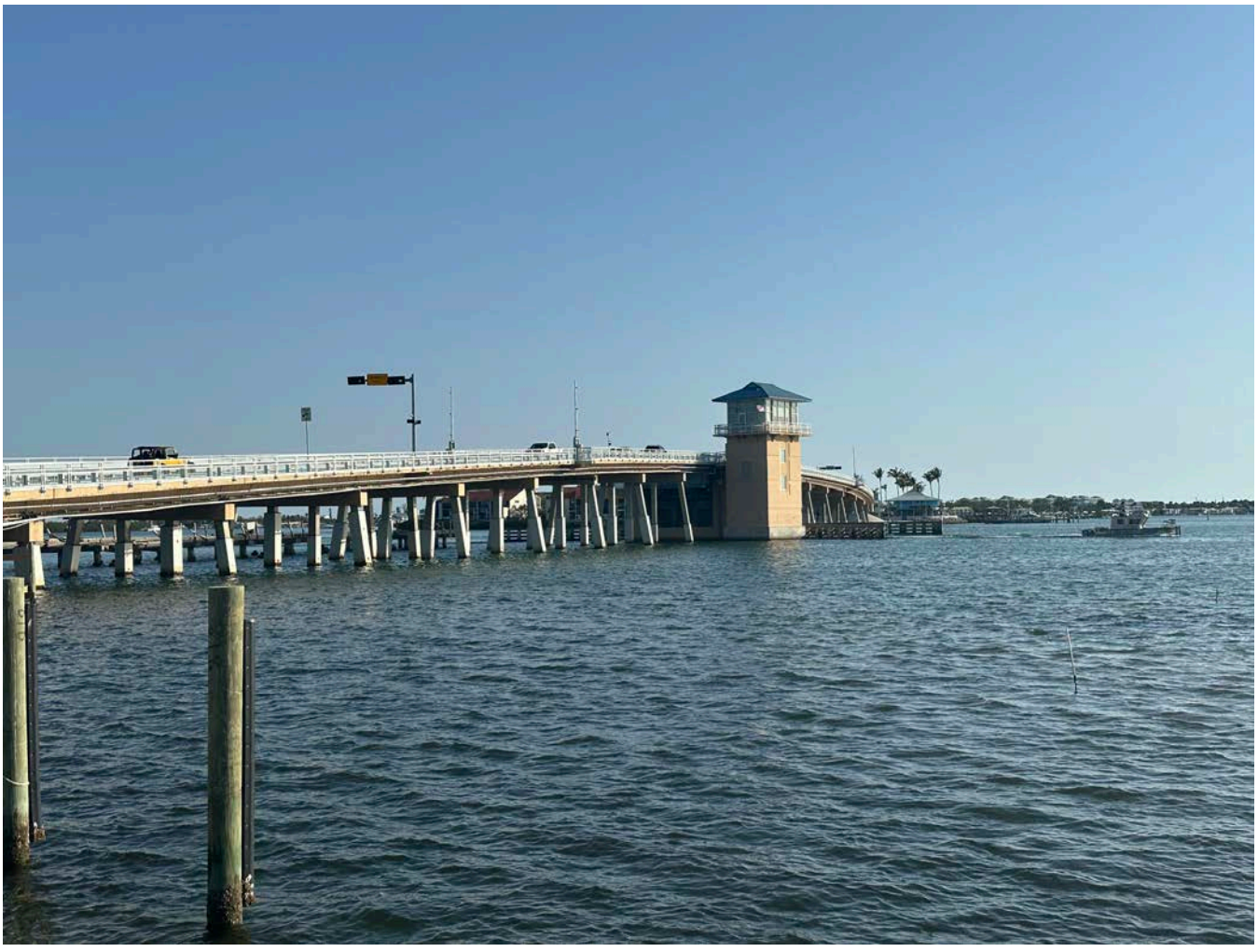
Case Name	Case #	Court	Status	Date Last Activity	Description	GMC Office Involved
Hoover City Schools v. Stone Building, LLC, GMC, et al.	01-CV-2021-903752	Jefferson County, AL	Pending	2021	Plaintiff alleges design and construction defects causing some water damage after renovations were completed on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

Section 10
Minority Business

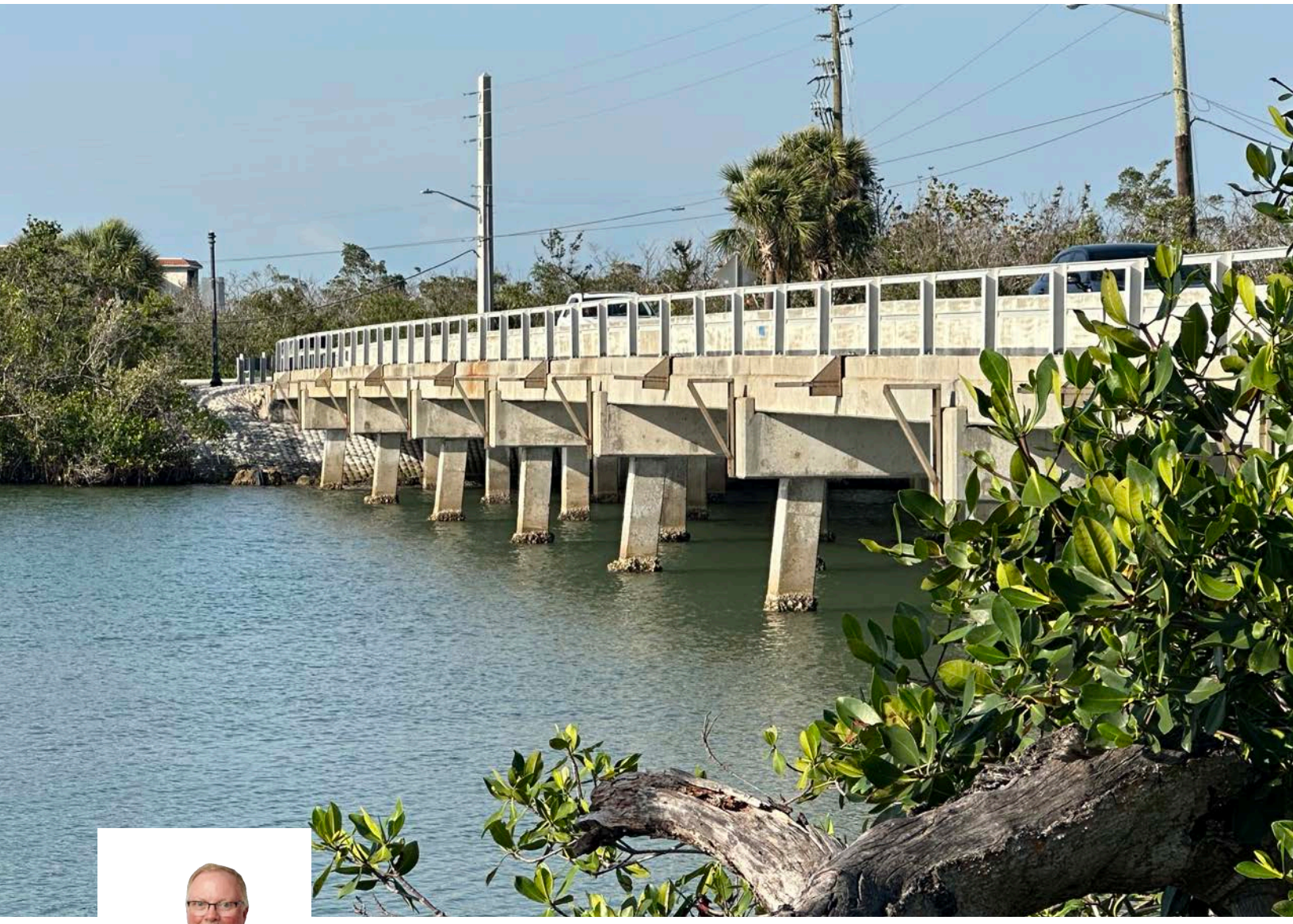
SECTION 10 Minority Business

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

Severns Civil, LLC (SC) is a Florida-based, women-owned DBE, certified through the Unified Certification Program with Florida DOT. We are also a certified DBE in Delaware and Tennessee. We focus on transportation and marine infrastructure asset management. Services include independent technical reviews (ITRs) of bridge inspection reports for topside and underwater. We also provide technical writing and research on transportation topics, bridges and structures topics, underwater marine investigation topics, and overall infrastructure asset management planning. We also offer underwater structures research services including remote scanning technologies such as underwater acoustic imaging and remotely operated vehicle (ROV) investigations.



Building Communities.



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GMC
Goodwyn Mills Cawood

Building
Communities

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