

PROFESSIONAL ENGINEERING SERVICES

CONTINUING SERVICES CONTRACTS FOR CITY OF NORTH PORT UTILITIES DEPARTMENT

CITY OF NORTH PORT, FL | RFP NO. 2020-58

July 20, 2020

BLACK & VEATCH CORPORATION

POINT OF CONTACT: Mark Martin, Client Manager

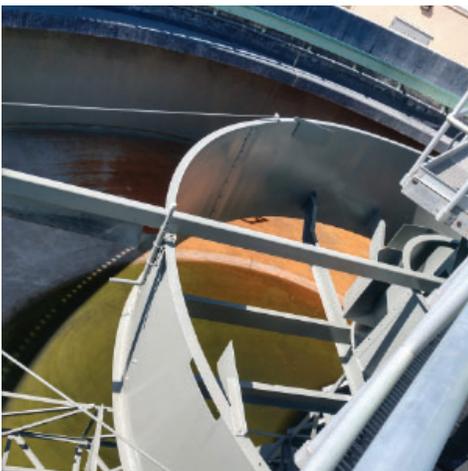
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BLACK & VEATCH



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July 20, 2020

City of North Port Finance Department
4970 City Hall Boulevard, Suite 337
North Port, Florida 34286

RE: RFP No. 2020-58, Professional Engineering Services - Continuing Services Contracts for City of North Port Utilities

Dear Selection Committee Members:

The City of North Port has diverse needs throughout your utility systems and facilities. Through the RFP No. 2020-58, Professional Engineering Services - Continuing Services Contract, Black & Veatch is committed to assist the City with identifying innovative solutions to address its infrastructure challenges and support optimization with superior project delivery. Our team is extremely well-qualified to support the City in meeting any need, large or small, under the variety of services required under this contract.

The specific categories that Black & Veatch is requesting consideration for under this contract are:

- **Category 1 | Water, Wastewater, and Reclaimed Water Treatment & Storage Systems**
- **Category 2 | Water, Wastewater, and Reclaimed Water Conveyance Systems**
- **Category 3 | Water, Wastewater, and Reclaimed Water Planning**
- **Category 4 | Electrical and Instrumentation/Controls**

We are an industry leader in each of these categories and possess the technical expertise and experience to provide significant value to the City.

The benefits the City of North Port will realize by selecting Black & Veatch for this contract include:

Access to a locally-led team supported by a diverse workforce with proven problem-solving techniques, assuring that the City will experience successful project execution.

While offering the benefits of a large, diverse team of world-wide resources, Black & Veatch has always prided ourselves on delivering projects with local staff and providing responsive services. We propose to deliver services under this contract with a core group of professionals offering a strong track record of successfully completing hundreds of projects under continuing professional services contracts for Florida utilities. At the forefront of our team's efforts will be **Client Manager Mark Martin; Project Manager Steven King;** and the Technical Lead for each of the four categories: **Mike Tache (Treatment & Storage); Mike McGee (Conveyance Systems); Amanda Schwerman (Planning); and Richard Taylor (Electrical/I&C).** These local professionals have significant experience and expertise in their identified roles.

The City will also have access to our national water reuse expert, **Jo Ann Jackson.** Jo Ann possesses 37 years of experience, which includes planning and implementing traditional urban reuse programs and designing some of the state's first and largest constructed wetland treatment systems. She oversaw Florida's first pilot testing for direct potable reuse for the City of Altamonte Springs.

Cost savings and innovative adaptive planning solutions by leveraging technology and our vast range of water, wastewater, and reclaimed water treatment capabilities and expertise. The management and operations of the City's water and wastewater systems and facilities are dynamic, with many factors influencing the decisions and schedules for improvements. To address these challenges, Black & Veatch uses an adaptive planning approach that is supported by our innovative planning tools. We will leverage the latest functionalities available in software for hydraulic modeling, GIS, and asset management; and use our customized financial and CIP planning tools to support the development of prioritized plans for improvements that optimize performance, cost, and risk. **Our adaptive planning approach will provide the City with practical and fiscally responsible plans and decisions that the City can confidently present to its stakeholders.**

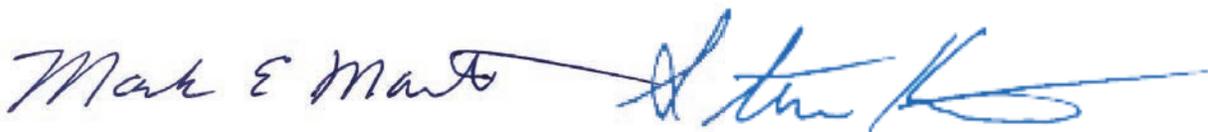
Delivery of quality work products means the City can begin work quickly with no downtime. Through teamwork, effective communications, and a commitment to outstanding service, our team members have successfully worked together on previous relevant projects. Black & Veatch has provided quality work products to more than 65 Florida clients, many who have continuously worked with Black & Veatch for many years. As an extension of your staff, our team will provide the City with quality work projects that are started quickly with no downtime. **We will leverage our experience and lessons learned to tailor solutions that will provide the City of North Port superior service.**

Optimized operations and infrastructure through the implementation of innovative solutions. Black & Veatch is a leader in energy efficiency and optimization of water, wastewater, and reclaimed water facilities and systems. Our experience includes optimization focused assessments and projects for numerous Florida utilities through continuing services contracts (City of Venice, Hillsborough County, and Peace River Manasota Regional Water Supply Authority), and specific optimization focused contracts with Pinellas County, Tampa Bay Water, and the City of Hollywood. **Black & Veatch will work closely with City staff to identify and implement innovative and practical cost-saving solutions as part of each project.**

Our goal is to provide the City with timely, quality work products and services consistently throughout this contract. We appreciate your consideration and look forward to the opportunity to support the City of North Port.

Very truly yours,

BLACK & VEATCH CORPORATION

Handwritten signatures in blue ink. The signature on the left is 'Mark E. Martin' and the signature on the right is 'Steven King'.

Mark Martin, PE
Client Manager

Steven King, PE
Project Manager

Qualifications of the Firm

The City of North Port will improve and optimize its water, wastewater, and reclaimed water systems by leveraging Black & Veatch’s comprehensive capabilities and proven experience successfully delivering solutions to utilities in southwest Florida.

ABOUT BLACK & VEATCH

Since 1915, Black & Veatch has helped our clients improve the lives of people in more than 100 countries through consulting, engineering, construction, operations and program management. Our workforce includes 10,000 professionals working on projects across major infrastructure markets. Today, millions of people around the world use critical human infrastructure designed, constructed or supported by Black & Veatch.

Black & Veatch is ranked No. 11 among the 2020 Top 500 Design Firms, as well as No. 5 for Water Treatment Plants by Engineering News-Record. We have risen to the top of our field by providing open and productive working relationships with our clients, effective project management, innovative solutions, and flexible project delivery systems that meet aggressive budgets and schedules.

Our company has been providing services in Florida since 1957 when Black & Veatch opened its first branch office in Orlando. During the past seven decades, our company has grown to include seven locations throughout the state, with more than 300 professionals serving public and private sector clients in North, Central, and South Florida. Black & Veatch is registered as a legal entity in the State of Florida. Black & Veatch’s Florida staff includes approximately 30 personnel in management; 35 in administrative support; and 235 in technical roles, including Florida licensed professional engineers and geologists, scientists, designers, and construction support.

Black & Veatch provides services in a wide range of disciplines, including civil, structural, water, wastewater, reclaimed water, stormwater, hydrogeology, architectural, geotechnical, environmental, electrical and mechanical engineering, as well as construction, operations, science, economics, planning and finance. We have performed continuing services contracts for more than 65 Florida clients, including utilities, and have completed more than 1,000 individual tasks orders of engineering assignments under these contracts. Our long and successful history of serving Florida clients through continuing engineering services contracts has allowed us to develop close-working relationships with our clients to maximize the benefit they receive from our services.

The following pages include our firm’s qualifications for Category 1 through Category 4.

 **BLACK & VEATCH**

COMPANY INFORMATION

100+

YEARS

IN BUSINESS AS A
**PRIVATE
CORPORATION**

10K+

GLOBAL WORKFORCE

IN FLORIDA

300+



PROFESSIONALS IN FLORIDA

7

FORT MYERS
TAMPA
ORLANDO
CORAL SPRINGS
CORAL GABLES
LAKE WORTH
JACKSONVILLE

OFFICES

CONTACT:

Client Director Mark Martin, PE
4415 Metro Pkwy., Suite 200
Fort Myers, FL 33916

O | 239-703-8294
M | 239-839-1658
F | N/A



MartinME@BV.com
www.BV.com

The table below lists some of the City’s needs, along with the value that the Black & Veatch team will provide to the City.

CITY OF NORTH PORT NEEDS	BLACK & VEATCH APPROACH	VALUE TO THE CITY
Water and Wastewater Treatment Plants		
<ul style="list-style-type: none"> ■ Expand treatment capacities to keep up with growth ■ Integration of new technologies and addressing more stringent regulations ■ Prioritizing maintenance and R&R of existing treatment infrastructure ■ Accurate cost estimates to allow for accurate budgeting 	<ul style="list-style-type: none"> ■ A locally-led team that will leverage technical specialists throughout the country to address new technologies. ■ Develop plans that prioritize maintenance of the existing equipment, in addition to looking for expansion opportunities. ■ Utilize B&V expertise as a designer and contractor to produce accurate cost estimates 	<ul style="list-style-type: none"> ■ Improved treatment plant efficiency ■ Reduced operating costs ■ Technological expertise to keep the City in compliance with existing and emerging regulations ■ Proactive maintenance and R&R programs to reduce downtime of the facilities ■ Accurate cost estimates during planning and design phases
Reclaimed Water		
<ul style="list-style-type: none"> ■ Expansions/improvements to reclaimed water supply, storage and beneficial reuse infrastructure ■ Prioritizing maintenance and R&R of existing treatment infrastructure ■ Accurate cost estimates to allow for accurate budgeting 	<ul style="list-style-type: none"> ■ Leverage local staff with experience performing reclaimed water/effluent disposal studies for Florida utilities to identify additional future disposal and reuse options ■ Develop plans that prioritize maintenance and R&R of the existing equipment, to limit downtime. 	<ul style="list-style-type: none"> ■ Timely plans for expansion ■ Reduced operating costs of existing facilities ■ Technological expertise to keep the City in compliance with existing and emerging regulations ■ Proactive maintenance and R&R programs to reduce downtime of the facilities ■ Accurate cost estimates during planning and design phases
Indirect and Direct Potable Reuse		
<ul style="list-style-type: none"> ■ Perform technology evaluations to identify the most appropriate technology/alternative for treating the water ■ Perform public outreach to inform the residents of the benefits and safety aspects of these options 	<ul style="list-style-type: none"> ■ Leverage Florida and national staff with experience in indirect and direct potable reuse study, design, permitting and public education ■ Design of treatment plant technology to meet water quality requirements ■ Proactively work to educate the public on the safety and quality of the proposed solutions 	<ul style="list-style-type: none"> ■ Assurance that the proposed solutions will be cutting edge, backed with years of staff experience and lessons learned at other utilities ■ Public outreach will help alleviate public and elected officials’ perceptions and concerns in a proactive manner
Operations & Maintenance (O&M)		
<ul style="list-style-type: none"> ■ Designs that consider ease and safety of O&M ■ O&M/startup support services ■ Optimizing existing treatment facility processes, equipment, and operations, optimizing electrical use 	<ul style="list-style-type: none"> ■ Dedicated operations support professionals (including two in our Tampa office) who will be leveraged on projects to help with O&M considerations in design ■ Existing plants can be evaluated for process, equipment and overall operation to optimize these systems and help reduce O&M and electrical costs 	<ul style="list-style-type: none"> ■ Local, experienced O&M professionals who can respond quickly to support City O&M Staff ■ Professionals to help ensure features to support O&M are incorporated into designs ■ Startup and commissioning support to ensure proper operation after construction

CATEGORY 1 | WATER, WASTEWATER, AND RECLAIMED WATER TREATMENT & STORAGE SYSTEMS

The City will provide a service that exceeds regulatory standards by leveraging Black & Veatch's proven water, wastewater and reclaimed water expertise that will support the City in preserving, repairing and upgrading it's treatment and storage facilities.

Over the years, the City has expanded the WTP by adding wells and a RO WTP to supplement the surface water plant. Also, the original surface water plant has been maintained, repaired and upgraded to ensure long term viability of the plant. The wastewater plant has also been very well maintained, upgraded and expanded as needed to serve the people of North Port. Recently, the City took ownership of a new wastewater treatment plant which serves the West Villages community.

In order to keep up with the expanding population and to accommodate future growth, the City's water and wastewater treatment plants and reclaimed water system all must expand and grow. This needs to be studied, properly permitted and designed. Also, the City is innovative and is looking at ways to find additional water sources to help keep up with demand. One way is the future planning, permitting and design of indirect and direct potable reuse systems.

Black & Veatch is an industry leader in engineering consulting for water, wastewater, and reclaimed water treatment and storage systems facilities. We provide services such as studies, master planning, process

evaluations, permitting and regulatory assistance, preliminary and detailed design, bidding services, construction/engineering/inspection (CEI) services, startup and commissioning, operation and maintenance (O&M) assistance and training, and a host of related services. We are capable of delivering cutting edge treatment technology solutions while also executing all projects with the highest level of efficiency.

In Central Florida alone, we have performed treatment plant-related projects for Hillsborough, Pasco, Pinellas, Manatee, Lee, Orange, and Seminole Counties; the Cities of Tampa, Clearwater, Lakeland, Orlando, Fort Myers, and Cape Coral, Ocala; and regional entities Tampa Bay Water and the Peace River Manasota Regional Water Supply Authority.

Black & Veatch's leadership in water, wastewater and reclaimed water (including indirect and direct potable reuse) engineering is based on sound designs that enable our projects to satisfy regulatory requirements; meet our client's specific needs and concerns; and lend themselves to cost-effective and energy-efficient operation and maintenance.

SIMILAR PROJECT EXPERIENCE

DUNEDIN WATER TREATMENT PLANT REFURBISHMENT PROJECT | CITY OF DUNEDIN, FL

Black & Veatch is providing engineering services including pilot testing, study, design, permitting, construction and construction phase services for the City of Dunedin 9.0 mgd Reverse Osmosis (RO) Water Treatment Plant Refurbishment Project. Black & Veatch is completing the project under a progressive design-build delivery method and is also acting as the contractor. The plant has been in operation since 1992 and is in need wide-spread refurbishments. Black & Veatch will also complete the construction of the project through the design-build process. Additionally, Black & Veatch will assist the City with State Revolving Funding applications and other funding requests.



CATEGORY 2 | WATER, WASTEWATER, AND RECLAIMED WATER CONVEYANCE SYSTEMS

Through Black & Veatch’s deep bench of recognized water experts, the City of North Port will receive support in monitoring, as well as optimizing, improving, and expanding its water distribution and wastewater collection and reclaimed water conveyance systems to maintain the highest level of service to its existing customer base and to accommodate future growth throughout the City.

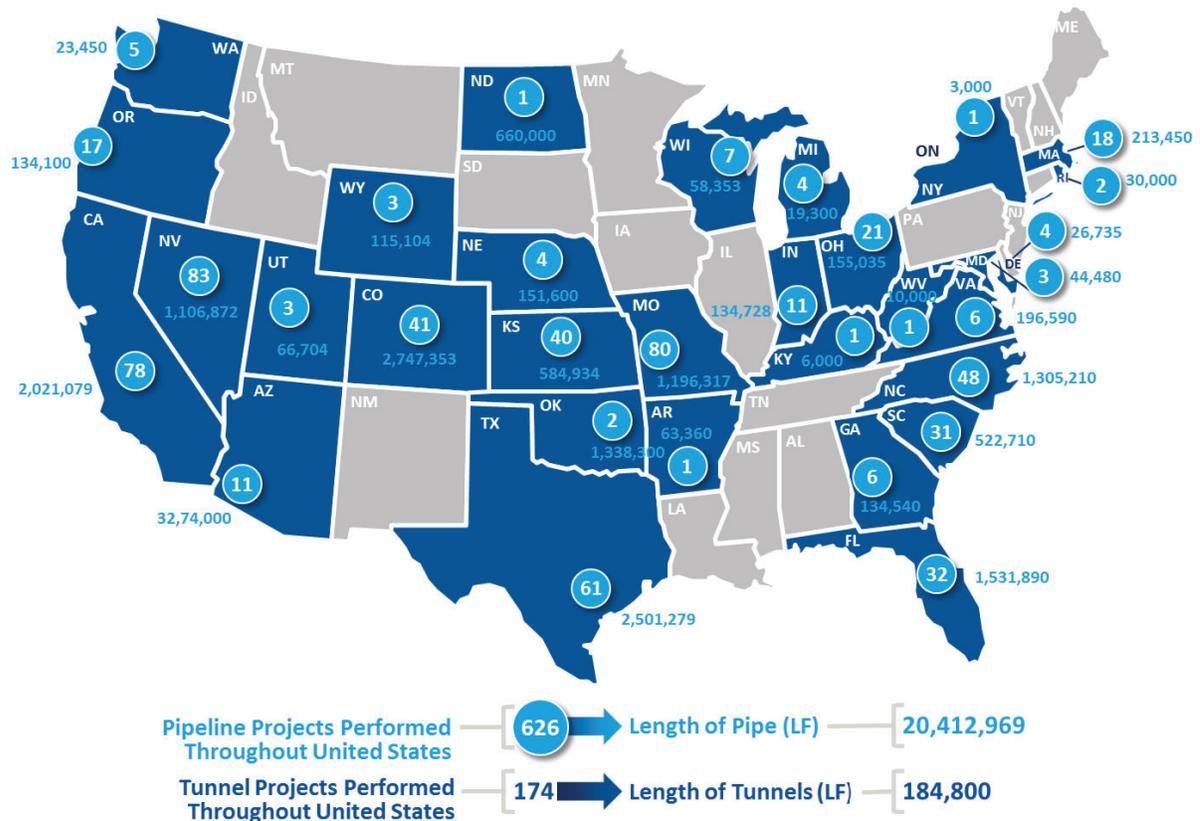
The City is experiencing growth which must be accounted for in the proper study and design of the water, wastewater and reclaimed water conveyance systems expansion. In addition, the current assets must be maintained and as needed replaced. The expansion and replacement work needs to be designed in order to reduce the O&M associated with service interruptions and expensive temporary bypass systems.

Black & Veatch has extensive experience in the design of water, wastewater, and reclaimed water pipelines and pumping systems. We have completed over 1,000 projects involving more than 12,000 miles of water, sewer, and reuse conveyance worldwide. Many of these projects in Florida, including utility extensions, repair/replacement, relocations and work in FDOT right of ways. The projects have included extensions underneath interstate highway using different trenchless

technologies. Our experience includes a variety of trenchless techniques including microtunneling (MT), pilot tube microtunneling (PTMT), horizontal directional drilling (HDD), and horizontal auger boring (HAB).

Our local team has broad experience studying, evaluating collection and distribution systems, as well as designing hundreds of miles of pipelines and dozens of pumping stations throughout Florida. Through this experience, we are familiar with local requirements related to permitting, environmental sensitivities, public acceptance, traffic maintenance, native soil conditions, and the business/contracting community.

The graphic below provides representative projects completed, or currently in progress, that demonstrate the depth and breadth of experience that we bring to the City of North Port.



CATEGORY 3 | WATER, WASTEWATER, AND RECLAIMED WATER PLANNING

Black & Veatch's master planning experts can assist the City of North Port in planning and monitoring growth needs to avoid long-term issues, like lack of supply and pressure, and can support the City in its process of updating a full-system hydraulic model for the potable water system.

The City of North Port has centralized water, wastewater and reclaimed water systems. The utility has grown over the years to service new areas of the City and expand into new territory. This growth needs to be planned and monitored to avoid long-term issues like lack of supply and pressure. To combat this the City is in the process of updating a full-system hydraulic model for the potable water system. The City also has in the past developed master plans and various updates to these plans.

Black & Veatch can support the City's needs in this category with industry leading tools and staff experience to ensure long-term viability of the City's utility infrastructure. Utilities are at the convergence of the technology revolution and evolving distributed asset and business processes. When combined with persistent challenges associated with aging infrastructure, an aging workforce and increasing regulatory requirements, today's utility leaders must identify how to maintain organizational stability, reliability and financial performance.

Master planning remains one of the most important endeavors that our clients undertake. Black & Veatch has successfully completed hundreds of master plans for water utilities throughout the United States, ranging from small community water systems to planning \$3 billion capital improvement programs (CIPs). This includes the City of Venice, City of Tampa, and other local utilities.

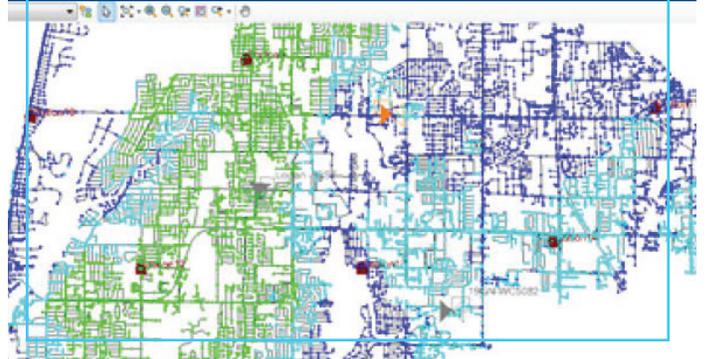
Black & Veatch is a leading innovator with regards to how master plans are used by our clients after studies are completed. Our plans typically involve an adaptive approach to planning, capital prioritization, and CIP management, and are supported by dynamic tools to allow the utility staff to actively manage the plan as conditions and priorities change with time.

Black & Veatch has a dedicated Planning and Asset Management group in Florida available to support the City with water, wastewater, and reclaimed water planning efforts that may be requested under this contract. This

SIMILAR PROJECT EXPERIENCE

WATER SYSTEM MASTER PLAN | PINELLAS COUNTY, FL

Black & Veatch was selected to update the County's master plan for the system, including its source waters and pumping, distribution, and treatment facilities. For the update, we implemented an adaptive master planning approach that leveraged the latest technologies in hydraulic and water quality modeling, GIS, and asset management, and used Black & Veatch's custom, interactive CIP planning tools.



group is led by **Amanda Schwerman** in our Tampa office, and includes several planning focused professionals to provide the City with expertise and the latest planning approaches and tools, including GIS and hydraulic modeling, that will be leveraged to set up the City for long-term future success. Our Florida Planning and Asset Management group brings experience from our successful planning work with over 40 Florida Water utilities.

Black & Veatch is a leader in surface water and ground water management, hydrogeology, consumptive use permitting, data collection and analysis. Our Florida team is experienced in all aspects of water management, planning, protection, and permitting having completed consumptive permit renewals for many utilities in Florida.

CATEGORY 4 | ELECTRICAL AND INSTRUMENTATION/CONTROLS

Black & Veatch can assist the City in maintaining and optimizing its electrical and I&C systems. These improvements can support the City's ability to enhance its facility and system operations. Our nationally-recognized experts can support the City in system upgrades to incorporate technology advances and maintain consistency with the latest standards, as well as meet safety standards, including arc-flash resistant equipment.

The City is growing and must expand the water, wastewater and reclaimed water systems to meet the increased demands and strive to maintain the existing facilities. Black & Veatch can assist as part of Category 4 with our electrical and I&C expertise in design, construction and operations. This expertise will benefit the City by identifying ways to maintain plant operations through construction to eliminate plant disruptions.

Our extensive experience upgrading electrical and I&C systems at existing facilities will be brought to the City via our local and national teams. Also our industry leading expertise can incorporate technology advances into our designs and help projects maintain consistency with the City's and the industry's latest standards, including identifying opportunities for arc-flash resistant equipment upgrades.

Electrical and I&C design and improvements can also support the City's ability to optimize facility and system operations by enhancing energy efficiency and reducing O&M costs. Black & Veatch has significant experience working under continuing professional service contracts to address the variety of electrical and I&C system projects that the City may need.

Our combined expertise in the water, power and telecom industries enables us to deliver optimized electrical and I&C solutions to the City.

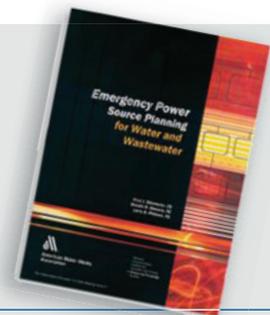
Our local Senior Electrical and I&C Engineer, **Richard Taylor**, has over 35 years of experience, which includes recent projects for Pasco County and St. Petersburg:



- Pasco County | Embassy Hills WWTF Improvements - Planning and design of facility-wide electrical improvements and the complete replacement of the control system at the existing facility.
- For the City of St. Petersburg, Black & Veatch completed a study to prioritize the needed replacement of aging electrical infrastructure throughout the facility. Based on this study, a first phase of priority improvements were identified as most critical to maintaining reliable operation of the Southwest Water Reclamation Facility, all while maintaining the facility in operation.

WE WROTE THE BOOK!

Black & Veatch experts literally “wrote the book” on emergency power source planning for water and wastewater. Larry Pittman, Fred Ellermeier, and Don Stevens authored “AWWA-20559 Emergency Power Source Planning for Water and Wastewater.” The book is a complete planning guide for water and wastewater utilities for assessing and planning standby power needs.



Standard Form 330

ARCHITECT - ENGINEER QUALIFICATIONS

PART I — CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION (CITY AND STATE)

Professional Engineering Services - Continuing Services Contracts for City of North Port Utilities (North Port, FL)

2. PUBLIC NOTICE DATE

June 21, 2020

3. SOLICITATION OR PROJECT NUMBER

RFP No. 2020-58

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Mark Martin, PE, Client Manager

5. FIRM NAME

Black & Veatch Corporation

6. TELEPHONE NUMBER

(239) 703-8294

7. FAX NUMBER

N/A

8. E-MAIL ADDRESS

MartinME@bv.com

C. PROPOSED TEAM *(Complete this Section for the Prime Contractor and all Key Subcontractors)*

	(Check)			9. FIRM NAME	10. ADDRESS	11. ROLE IN CONTRACT
	PRIME	JV PARTNER	SUBCON-TRACTOR			
a.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Black & Veatch Corporation <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	4415 Metro Parkway Suite 200 Fort Myers, FL 33916	<input type="checkbox"/> Category 1 <input type="checkbox"/> Category 2 <input type="checkbox"/> Category 3 <input type="checkbox"/> Category 4
	(Check)					
	PRIME	JV PARTNER	SUBCON-TRACTOR	9. FIRM NAME	10. ADDRESS	11. ROLE IN CONTRACT
b.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Black & Veatch Corporation <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	3405 W. Martin Luther King Jr. Blvd., Suite 125 Tampa, FL 33607	<input type="checkbox"/> Category 1 <input type="checkbox"/> Category 2 <input type="checkbox"/> Category 3 <input type="checkbox"/> Category 4

C. PROPOSED TEAM (Complete this Section for the Prime Contractor and all Key Subcontractors)

(Check)				9. FIRM NAME	10. ADDRESS	11. ROLE IN CONTRACT
PRIME	JV PARTNER	SUBCON-TRACTOR				
c.	X			Black & Veatch Corporation <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	2855 North University Drive Suite 210 Coral Springs, FL 33605	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Category 1 <input checked="" type="checkbox"/> Category 2 <input checked="" type="checkbox"/> Category 3 <input checked="" type="checkbox"/> Category 4
(Check)				9. FIRM NAME	10. ADDRESS	11. ROLE IN CONTRACT
d.	X			Black & Veatch Corporation <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	201 South Orange Avenue Suite 500 Orlando, FL 32801	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Category 3 <input checked="" type="checkbox"/> Category 4
(Check)				9. FIRM NAME	10. ADDRESS	11. ROLE IN CONTRACT
e.	X			Black & Veatch Corporation <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	18310 Montgomery Village Avenue, Suite 750 Gaithersburg, MD 20879	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Category 1
(Check)				9. FIRM NAME	10. ADDRESS	11. ROLE IN CONTRACT
f.	X			Black & Veatch Corporation <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	8400 Ward Parkway Kansas City, MO 64114	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Category 4

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)

PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Black & Veatch Corporation			3. YEAR ESTABLISHED 1998	4. DUNS NUMBER 09-225-5939
2b. STREET Metro Park Executive Center, 4415 Metro Parkway, Suite 200			5. OWNERSHIP a. TYPE Corporation b. SMALL BUSINESS STATUS N/A	
2c. CITY Fort Myers	2d. STATE FL	2e. ZIP CODE 33916	7. NAME OF FIRM (If block 2a is a branch office) Black & Veatch Holding Company 11401 Lamar Overland Park, KS 66211	
6a. POINT OF CONTACT NAME AND TITLE Mark Martin, PE			8b. YR. ESTABLISHED 1915	
6b. TELEPHONE NUMBER (239) 703-8294	6c. E-MAIL ADDRESS MartinME@bv.com		8c. DUNS NUMBER 07-979-5251	
8a. FORMER FIRM NAME(S) (if any) Black & Veatch				

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number
		(1) FIRM	(2) BRANCH			
02	Administrative	1,899		A09	Anti-Terrorism/Force Protection	3
06	Architect	25		C12	Communications Systems; TV; Microwave	10
08	CADD Technician	1,049		C13	Computer Facilities; Computer Service	9
10	Chemical Engineer	192		C15	Construction Management	10
12	Civil Engineer	918	2	C18	Cost Estimating; Cost Engineering & Analysis	8
16	Construction Manager	485		D02	Dams (Earth; Rock); Dikes; Levees	8
18	Cost Engineer/Estimator	99		E12	Environmental Remediation	6
21	Electrical Engineer	958		H03	Hazardous, Toxic, Radioactive Waste Remediation	8
23	Environmental Engineer	11		H07	Highways; Streets; Airfield Paving; Parking Lots	2
24	Environmental Scientist	56		L01	Laboratories	9
25	Fire Protection Engineer	2		N32	Nuclear Facilities; Nuclear Shielding	9
27	Foundation/Geotechnical Eng.	46		P01	Petroleum Exploration; Refining	10
29	GIS Specialist	41		P07	Plumbing & Piping Design	9
30	Geologist	23	1	P12	Power Generation, Transmission, Distribution	10
42	Mechanical Engineer	544		S04	Sewage Collection, Treatment, and Disposal	10
48	Project Manager	726	1	S06	Solar Energy Systems	10
51	Safety/Occupational Health	119		S07	Solid Wastes; Incineration; Landfill	8
54	Security Specialist	10		S09	Structural Design; Special Structures	10
57	Structural Engineer	183		S13	Storm Water Handling & Facilities	10
58	Technician/Analyst	880		W03	Water Supply; Treatment and Distribution	10
	Other Employees	2,161				
	Total	10,427	4			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	10	1. Less than \$100,000	6. \$2 million to less than \$5 million		
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million		
c. Total Work	10	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million		
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million		
		5. \$1 million to less than \$2 million	10. \$50 million or greater		

12. AUTHORIZED REPRESENTATIVE THE FOREGOING IS A STATEMENT OF FACTS.

a. SIGNATURE 	b. DATE June 26, 2020
c. NAME AND TITLE Rafael E. Frias, Jr., PE Associate Vice President	

ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2A. FIRM (OR BRANCH OFFICE) NAME			3. YEAR ESTABLISHED	4. DUNS NUMBER
Black & Veatch Corporation			1998	09-225-5939
2B. STREET			5. OWNERSHIP	
3405 W. Martin Luther King Jr. Blvd., Suite 125			A. TYPE	
2C. CITY	2D. STATE	2E. ZIP CODE	Corporation	
Tampa	FL	33607	B. SMALL BUSINESS STATUS	
			N/A	
6A. POINT OF CONTACT NAME AND TITLE			7. NAME OF FIRM (if block 2a is a branch office)	
Bobby Burchett, PE			Black & Veatch Holding Company	
6B. TELEPHONE NUMBER		6C. E-MAIL ADDRESS		
813-207-7927		BurchettRY@bv.com		
8A. FORMER FIRM NAME(S) (if any)			8B. YR. ESTABLISHED	8C. DUNS NUMBER
Black & Veatch			1915	07-979-5251

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
A. FUNCTION CODE	B. DISCIPLINE	C. NO. OF EMPLOYEES		A. PROFILE CODE	B. EXPERIENCE	C. REVENUE INDEX NUMBER
		(1) FIRM	(2) BRANCH			
02	Administrative	1,899	2	A09	Anti-Terrorism/Force Protection	3
06	Architect	25		C12	Communications Systems; TV; Microwave	10
08	CADD Technician	1,049		C13	Computer Facilities; Computer Service	9
10	Chemical Engineer	192		C15	Construction Management	10
12	Civil Engineer	918	15	C18	Cost Estimating; Cost Engineering & Analysis	8
16	Construction Manager/Field	485	1	D02	Dams (Earth; Rock); Dikes; Levees	8
18	Cost Engineer/Estimator	99		E12	Environmental Remediation	6
21	Electrical Engineer	958		H03	Hazardous, Toxic, Radioactive Waste Remediation	8
23	Environmental Engineer	11		H07	Highways; Streets; Airfield Paving; Parking Lots	2
24	Environmental Scientist	56		L01	Laboratories	9
25	Fire Protection Engineer	2		N32	Nuclear Facilities; Nuclear Shielding	9
27	Foundation/Geotechnical Eng.	46	1	P01	Petroleum Exploration; Refining	10
29	GIS Specialist	41		P07	Plumbing & Piping Design	9
30	Geologist	23		P12	Power Generation, Transmission, Distribution	10
42	Mechanical Engineer	544		S04	Sewage Collection, Treatment, and Disposal	10
48	Project Manager	726	4	S06	Solar Energy Systems	10
51	Safety/Occupational Health	119	1	S07	Solid Wastes; Incineration; Landfill	8
54	Security Specialist	10		S09	Structural Design; Special Structures	10
57	Structural Engineer	183		S13	Storm Water Handling & Facilities	10
58	Technician/Analyst	880		W03	Water Supply; Treatment and Distribution	10
	Other Employees	2,161				
Total		10,427	24			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
a. Federal Work	10	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	10	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
		5. \$1 million to less than \$2 million	10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE THE FOREGOING IS A STATEMENT OF FACTS.

A. SIGNATURE	B. DATE
	June 26, 2020
C. NAME AND TITLE	
Rafael E. Frias, III, PE - Associate Vice President	

ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2A. FIRM (OR BRANCH OFFICE) NAME			3. YEAR ESTABLISHED	4. DUNS NUMBER
Black & Veatch Corporation			1998	09-225-5939
2B. STREET			5. OWNERSHIP	
2855 North University Drive, Suite 210			A. TYPE	
2C. CITY	2D. STATE	2E. ZIP CODE	Corporation	
Coral Springs	FL	33065	B. SMALL BUSINESS STATUS	
6A. POINT OF CONTACT NAME AND TITLE			7. NAME OF FIRM (if block 2a is a branch office)	
Rafa Frias, Associate Vice President			Black & Veatch Holding Company	
6B. TELEPHONE NUMBER		6C. E-MAIL ADDRESS		
754-229-3049		FriasRE@bv.com		
8A. FORMER FIRM NAME(S) (if any)			8B. YR. ESTABLISHED	8C. DUNS NUMBER
Black & Veatch			1915	07-979-5251

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
A. FUNCTION CODE	B. DISCIPLINE	C. NO. OF EMPLOYEES		A. PROFILE CODE	B. EXPERIENCE	C. REVENUE INDEX NUMBER
		(1) FIRM	(2) BRANCH			
02	Administrative	1,899	11	A09	Anti-Terrorism/Force Protection	3
06	Architect	25		C12	Communications Systems; TV; Microwave	10
08	CADD Technician	1,049	1	C13	Computer Facilities; Computer Service	9
10	Chemical Engineer	192	1	C15	Construction Management	10
12	Civil Engineer	918	21	C18	Cost Estimating; Cost Engineering & Analysis	8
16	Construction Manager/Field	485	3	D02	Dams (Earth; Rock); Dikes; Levees	8
18	Cost Engineer/Estimator	99		E12	Environmental Remediation	6
21	Electrical Engineer	958	1	H03	Hazardous, Toxic, Radioactive Waste Remediation	8
23	Environmental Engineer	11		H07	Highways; Streets; Airfield Paving; Parking Lots	2
24	Environmental Scientist	56		L01	Laboratories	9
25	Fire Protection Engineer	2		N32	Nuclear Facilities; Nuclear Shielding	9
27	Foundation/Geotechnical Eng.	46		P01	Petroleum Exploration; Refining	10
29	GIS Specialist	41	1	P07	Plumbing & Piping Design	9
30	Geologist	23	1	P12	Power Generation, Transmission, Distribution	10
42	Mechanical Engineer	544	2	S04	Sewage Collection, Treatment, and Disposal	10
48	Project Manager	726	5	S06	Solar Energy Systems	10
51	Safety/Occupational Health	119		S07	Solid Wastes; Incineration; Landfill	8
54	Security Specialist	10		S09	Structural Design; Special Structures	10
57	Structural Engineer	183		S13	Storm Water Handling & Facilities	10
58	Technician/Analyst	880		W03	Water Supply; Treatment and Distribution	10
	Other Employees	2,161				
	Total	10,427	47			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
a. Federal Work	10	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	10	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
		5. \$1 million to less than \$2 million	10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE THE FOREGOING IS A STATEMENT OF FACTS.

A. SIGNATURE	B. DATE
	June 26, 2020
C. NAME AND TITLE	

Rafael E. Frias, III, PE - Associate Vice President

ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2A. FIRM (OR BRANCH OFFICE) NAME			3. YEAR ESTABLISHED	4. DUNS NUMBER
Black & Veatch Corporation			1998	09-225-5939
2B. STREET			5. OWNERSHIP	
201 South Orange Avenue			A. TYPE	
2C. CITY			Corporation	
2D. STATE			B. SMALL BUSINESS STATUS	
Orlando			N/A	
2E. ZIP CODE			7. NAME OF FIRM (if block 2a is a branch office)	
32801			Black & Veatch Holding Company	
6A. POINT OF CONTACT NAME AND TITLE			11401 Lamar	
Kenny Blanton, Project Manager			Overland Park, KS 66211	
6B. TELEPHONE NUMBER			6C. E-MAIL ADDRESS	
407-419-3570			BlantonKM@BV.com	
8A. FORMER FIRM NAME(S) (if any)			8B. YR. ESTABLISHED	8C. DUNS NUMBER
Black & Veatch			1915	07-979-5251

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
A. FUNCTION CODE	B. DISCIPLINE	C. NO. OF EMPLOYEES		A. PROFILE CODE	B. EXPERIENCE	C. REVENUE INDEX NUMBER
		(1) FIRM	(2) BRANCH			
02	Administrative	1,899	3	A09	Anti-Terrorism/Force Protection	3
06	Architect	25		C12	Communications Systems; TV; Microwave	10
08	CADD Technician	1,049	13	C13	Computer Facilities; Computer Service	9
10	Chemical Engineer	192	10	C15	Construction Management	10
12	Civil Engineer	918	3	C18	Cost Estimating; Cost Engineering & Analysis	8
16	Construction Manager/Field	485	24	D02	Dams (Earth; Rock); Dikes; Levees	8
18	Cost Engineer/Estimator	99	1	E12	Environmental Remediation	6
21	Electrical Engineer	958		H03	Hazardous, Toxic, Radioactive Waste Remediation	8
23	Environmental Engineer	11		H07	Highways; Streets; Airfield Paving; Parking Lots	2
24	Environmental Scientist	56		L01	Laboratories	9
25	Fire Protection Engineer	2		N32	Nuclear Facilities; Nuclear Shielding	9
27	Foundation/Geotechnical Eng.	46		P01	Petroleum Exploration; Refining	10
29	GIS Specialist	41		P07	Plumbing & Piping Design	9
30	Geologist	23		P12	Power Generation, Transmission, Distribution	10
42	Mechanical Engineer	544	2	S04	Sewage Collection, Treatment, and Disposal	10
48	Project Manager	726	6	S06	Solar Energy Systems	10
51	Safety/Occupational Health	119	1	S07	Solid Wastes; Incineration; Landfill	8
54	Security Specialist	10		S09	Structural Design; Special Structures	10
57	Structural Engineer	183		S13	Storm Water Handling & Facilities	10
58	Technician/Analyst	880	16	W03	Water Supply; Treatment and Distribution	10
	Other Employees	2,161	19			
	Total	10,427	98			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
a. Federal Work	10	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	10	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
		5. \$1 million to less than \$2 million	10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE THE FOREGOING IS A STATEMENT OF FACTS.

A. SIGNATURE	B. DATE
	June 26, 2020
C. NAME AND TITLE	

Rafael E. Frias, III, PE - Associate Vice President

ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2A. FIRM (OR BRANCH OFFICE) NAME			3. YEAR ESTABLISHED	4. DUNS NUMBER
Black & Veatch Corporation			1998	09-225-5939
2B. STREET			5. OWNERSHIP	
18310 Montgomery Village Avenue, Suite 750			A. TYPE	
2C. CITY			Corporation	
Gaithersburg			B. SMALL BUSINESS STATUS	
2D. STATE			N/A	
MD				
2E. ZIP CODE				
20879				
6A. POINT OF CONTACT NAME AND TITLE			7. NAME OF FIRM (if block 2a is a branch office)	
Priscilla Brown-Buchalla, Client Services Manager			Black & Veatch Holding Company	
6B. TELEPHONE NUMBER			11401 Lamar	
301-556-4400			Overland Park, KS 66211	
6C. E-MAIL ADDRESS				
Brownpr@BV.com				
8A. FORMER FIRM NAME(S) (if any)			8B. YR. ESTABLISHED	8C. DUNS NUMBER
Black & Veatch			1915	07-979-5251

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
A. FUNCTION CODE	B. DISCIPLINE	C. NO. OF EMPLOYEES		A. PROFILE CODE	B. EXPERIENCE	C. REVENUE INDEX NUMBER
		(1) FIRM	(2) BRANCH			
02	Administrative	1,899	3	A09	Anti-Terrorism/Force Protection	3
06	Architect	25		C12	Communications Systems; TV; Microwave	10
08	CADD Technician	1,049		C13	Computer Facilities; Computer Service	9
10	Chemical Engineer	192		C15	Construction Management	10
12	Civil Engineer	918	19	C18	Cost Estimating; Cost Engineering & Analysis	8
16	Construction Manager/Field	485	4	D02	Dams (Earth; Rock); Dikes; Levees	8
18	Cost Engineer/Estimator	99		E12	Environmental Remediation	6
21	Electrical Engineer	958		H03	Hazardous, Toxic, Radioactive Waste Remediation	8
23	Environmental Engineer	11		H07	Highways; Streets; Airfield Paving; Parking Lots	2
24	Environmental Scientist	56		L01	Laboratories	9
25	Fire Protection Engineer	2		N32	Nuclear Facilities; Nuclear Shielding	9
27	Foundation/Geotechnical Eng.	46		P01	Petroleum Exploration; Refining	10
29	GIS Specialist	41		P07	Plumbing & Piping Design	9
30	Geologist	23		P12	Power Generation, Transmission, Distribution	10
42	Mechanical Engineer	544		S04	Sewage Collection, Treatment, and Disposal	10
48	Project Manager	726	4	S06	Solar Energy Systems	10
51	Safety/Occupational Health	119		S07	Solid Wastes; Incineration; Landfill	8
54	Security Specialist	10		S09	Structural Design; Special Structures	10
57	Structural Engineer	183		S13	Storm Water Handling & Facilities	10
58	Technician/Analyst	880		W03	Water Supply; Treatment and Distribution	10
	Other Employees	2,161				
	Total	10,427	30			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
a. Federal Work	10	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	10	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
		5. \$1 million to less than \$2 million	10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE THE FOREGOING IS A STATEMENT OF FACTS.

A. SIGNATURE	B. DATE
	June 26, 2020
C. NAME AND TITLE	

Rafael E. Frias, III, PE - Associate Vice President

ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2A. FIRM (OR BRANCH OFFICE) NAME			3. YEAR ESTABLISHED	4. DUNS NUMBER
Black & Veatch Corporation			1998	09-225-5939
2B. STREET			5. OWNERSHIP	
8400 Ward Parkway			A. TYPE	
2C. CITY	2D. STATE	2E. ZIP CODE	Corporation	
Kansas City	MO	64114	B. SMALL BUSINESS STATUS	
			N/A	
6A. POINT OF CONTACT NAME AND TITLE			7. NAME OF FIRM (if block 2a is a branch office)	
Scott Carr, Project Manager			Black & Veatch Holding Company	
6B. TELEPHONE NUMBER		6C. E-MAIL ADDRESS		
913-458-2000		CarrJS@bv.com		
8A. FORMER FIRM NAME(S) (if any)			8B. YR. ESTABLISHED	8C. DUNS NUMBER
Black & Veatch			1915	07-979-5251

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
A. FUNCTION CODE	B. DISCIPLINE	C. NO. OF EMPLOYEES		A. PROFILE CODE	B. EXPERIENCE	C. REVENUE INDEX NUMBER
		(1) FIRM	(2) BRANCH			
02	Administrative	1,899	87	A09	Anti-Terrorism/Force Protection	3
06	Architect	25	6	C12	Communications Systems; TV; Microwave	10
08	CADD Technician	1,049	44	C13	Computer Facilities; Computer Service	9
10	Chemical Engineer	192		C15	Construction Management	10
12	Civil Engineer	918	176	C18	Cost Estimating; Cost Engineering & Analysis	8
16	Construction Manager/Field	485	2	D02	Dams (Earth; Rock); Dikes; Levees	8
18	Cost Engineer/Estimator	99		E12	Environmental Remediation	6
21	Electrical Engineer	958	2	H03	Hazardous, Toxic, Radioactive Waste Remediation	8
23	Environmental Engineer	11		H07	Highways; Streets; Airfield Paving; Parking Lots	2
24	Environmental Scientist	56		L01	Laboratories	9
25	Fire Protection Engineer	2		N32	Nuclear Facilities; Nuclear Shielding	9
27	Foundation/Geotechnical Eng.	46		P01	Petroleum Exploration; Refining	10
29	GIS Specialist	41		P07	Plumbing & Piping Design	9
30	Geologist	23		P12	Power Generation, Transmission, Distribution	10
42	Mechanical Engineer	544		S04	Sewage Collection, Treatment, and Disposal	10
48	Project Manager	726	22	S06	Solar Energy Systems	10
51	Safety/Occupational Health	119	2	S07	Solid Wastes; Incineration; Landfill	8
54	Security Specialist	10		S09	Structural Design; Special Structures	10
57	Structural Engineer	183		S13	Storm Water Handling & Facilities	10
58	Technician/Analyst	880		W03	Water Supply; Treatment and Distribution	10
	Other Employees	2,161				
Total		10,427	341			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
a. Federal Work	10	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	10	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
		5. \$1 million to less than \$2 million	10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE THE FOREGOING IS A STATEMENT OF FACTS.

A. SIGNATURE	B. DATE
	June 26, 2020
C. NAME AND TITLE	
Rafael E. Frias, III, PE - Associate Vice President	

Key Personnel

The City of North Port will have access to regional staff, who have been supporting clients in Southwest Florida for more than two decades. Our comprehensive treatment capabilities mean the City will receive the right system solutions for its water, wastewater, reclaimed water, and electrical and instrumentation/controls needs.

Black & Veatch has assembled a team of highly qualified professionals to successfully deliver the services required under this general engineering contract for Category 1 through Category 4. Our team combines proven project management with experienced local staff and specialized expertise to deliver the full array of services that may be needed to complete each project.

Our team will leverage this combined experience to the benefit of the City of North Port on every task undertaken, including:

Responsive Service from a Committed Team with a Deep Bench | Black & Veatch is dedicated to providing reliable access to quality resources.

Comprehensive Analysis and Selection of the Most Beneficial Alternatives | Our breadth and depth of technical expertise will result in the utilization of ideal materials for the design purpose, the most advantageous technology applications, and minimal disruptions to plant operations.

Expedited Permitting and Avoided Delays | Our team's local relationships and experience will provide the City with an accelerated permitting process through proactive coordination with local agencies and municipalities.

The Black & Veatch team includes a core group of professionals that have successfully completed a variety of water treatment and storage, conveyance systems, planning, and electrical and instrumentation/controls for clients throughout Southwest Florida and other Florida municipalities over the past several years. We will leverage this experience to deliver high quality work products and efficient services for the City of North Port.

This section highlights our contract management team, our technical leads for each category, and the organizational structure of our team. Complete resumes are included in the SF 330 Part I, Section E.

THE CITY WILL REALIZE NUMEROUS BENEFITS BY ENGAGING OUR LOCAL TEAM

Black & Veatch has delivered some of the most complex and challenging municipal water projects designed and constructed in Florida and in Southwest Florida in recent years. We provide the City with benefits including:

STRONG leadership and **RESPONSIVE**, local service

APPROPRIATE RESOURCES to address all service areas

Diverse range of **SPECIALIZED** experience and expertise

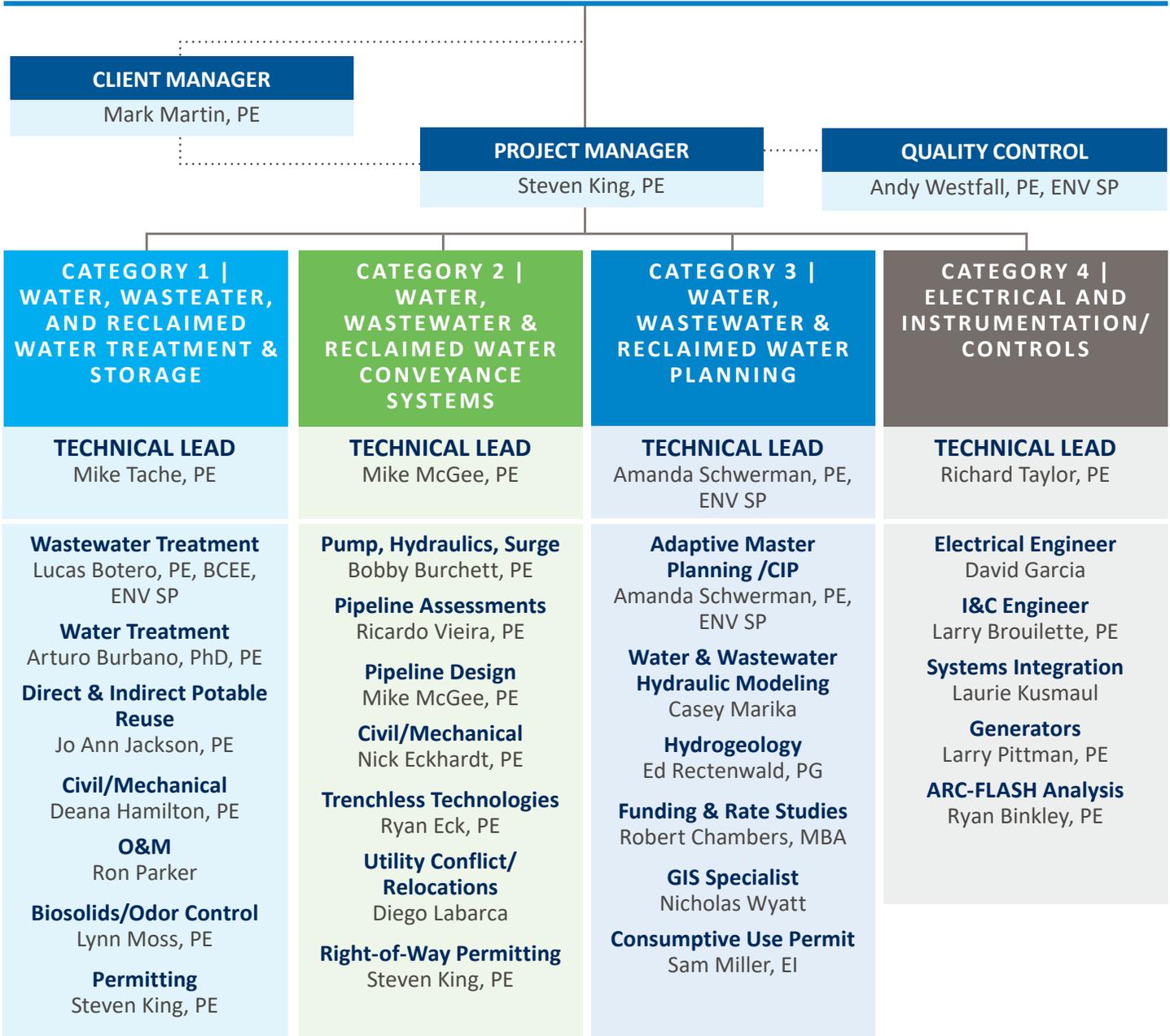
Direct experience with **INNOVATIVE TECHNOLOGIES** and applications

UNDERSTANDING of your design preferences and procedural requirements

A **HISTORY** of working successfully within project assignments

REDUNDANT BENCH strength to address multiple task orders simultaneously

CITY OF NORTH PORT



ENGINEERING SUPPORT SERVICES			
Construction/Engineering Inspections Sid Chougule, CHST Geotechnical Mark Chomtid, PhD, PE	Structural Brad Vanlandingham, PE Constructability/Value Engineering Roger Smith	Project Controls/ Scheduling Roberto Santiago, PE Cost Estimating Chad Barker	Architectural Louis Nemeth, RA, NCARB, LEED AP Construction Administration George Joyce

TEAM STRUCTURE

The Black & Veatch team will focus on consulting, rather than contracting. What this means to the City of North Port is that our team will interact closely with City staff to evaluate project needs and recommend viable options, allowing the City and Black & Veatch to select cost-effective solutions that meet short and long-term objectives.

Mark Martin will serve as Client Manager, liaising between City staff and the Black & Veatch team to ensure that the City's expectations are being fully met at all times.

As Project Manager, Steven King will oversee all aspects of the work performed under this contract and ensure that each project is provided the necessary resources to ensure a successful project outcome. Steven will assign one of four Technical Leads to each task order. Mike Tache, Mike McGee, Amanda Schwerman, and Richard

Taylor were selected for their depth of experience in managing complex projects for municipal utilities.

Steven will work collaboratively with City staff and our highly qualified Technical Leads to ensure that the highest level of service is provided to every project component. They will also coordinate with Quality Manager Andy Westfall to ensure that rigorous quality control protocols are applied throughout the project lifecycle. Our Technical Leads will work closely with our specialized project support staff, who will provide comprehensive services includes in Category 1 through Category 4.

Summaries of our key team members' experience and qualifications are provided on the following pages. Resumes for team members listed in the organizational chart are located in the SF 330 Part I, Section E at the end of this section. Licenses are indexed in Tab 9.

TEAM MANAGEMENT

Client Manager | Mark Martin is a State of Florida licensed professional engineer who has over 33 years of experience successfully managing and executing complex and varied water and wastewater projects. He is an experienced Client Manager with a strong background in water resources. This contract aligns closely with Mark's experience, water resources management capabilities, and commitment to support the region. His wealth of experience and knowledge working with municipal utilities in the region and throughout Florida provides Mark with the tools to understand the City's needs and expectations. He will ensure that all services are performed to meet the City of North Port's expectations.

Project Manager | Steven King, a State of Florida licensed professional engineer, has over 20 years of experience in providing engineering, project management, and permitting solutions for a variety of utility projects in Southwest Florida. As Project Manager, he will provide leadership of the team and act as the primary contact with the City of North Port. Working together with Client Manager Mark Martin and the City, Steven will match the right resources with the right talent to each task for contract compliance. The City will directly benefit from Steven's experience, attention, and commitment to client service. In addition, he will apply his skill in communicating complex technical ideas to a broad audience in the area of water resources engineering. He will work closely with his Technical Leads to successfully deliver all projects under this contract.

Quality Control Manager | Andy Westfall, a State of Florida licensed professional engineer, has over 31 years of experience managing and executing water, wastewater, and reclaimed water projects in Florida, including St Petersburg, Hillsborough County, City of Lakeland, City of Venice, and City of Ft Myers. For the City of North Port's contract, he will manage Black & Veatch's Quality Assurance/Quality Control Program. For tasks assigned to Black & Veatch, Andy will lead the team in relentlessly focusing on the delivery of high quality work products to the City within the schedule and budget requirements.

MARK MARTIN, PE | CLIENT MANAGER



TOTAL YEARS OF EXPERIENCE | 33

TOTAL YEARS WITH BLACK & VEATCH | 33

EDUCATION | BS, Civil Engineering, Michigan Technological University,

PROFESSIONAL REGISTRATION | PE - FL, MI

**PROFESSIONAL ASSOCIATIONS | American Water Works Association;
Water Environment Federation**

LOCATION | Fort Myers, FL



I am proud to offer the City of North Port the highest quality resources to lead your water system projects. I am confident our team is unparalleled and will provide the greatest value to the City.”

Mark has a depth of experience in a variety of engineering projects, including water and wastewater treatment plants, pumping stations, and pipelines. His involvement in these projects includes feasibility studies, facility design and construction services. Mark has significant experience developing and leading project teams to complete a wide variety of assignments under similar engineering services contracts, including Fort Myers and Cape Coral. Through his experience in the region, Mark understands the local regulatory issues that Southwest Florida utilities face. He also possesses the proven ability to lead multiple teams simultaneously, which led to his involvement in many large treatment plant design projects with the responsibility of managing varied task order assignments.

Mark will ensure that all services are performed to meet the City of North Port’s expectations.



ENGINEER OF RECORD | CITY OF FORT MYERS, FL (2014-ONGOING)

Client Manager. Manages a continuing services contact, as the Engineer of Record to provide engineering consultation and assist with completion of capital projects associated with the City’s Public Water System. Have completed over 27 task orders involving water supply, water treatment and water distribution.



WASTEWATER MASTER PLAN UPDATE | LEE COUNTY, FL (2018-2019)

Client Manager. Responsible for an update of the County’s wastewater master plan to provide a reliable and robust system with adequate capacity to accommodate future growth within the County’s sewer service area. The update included data collection, population and demand projects, model update and calibration, hydraulic analysis and CIP planning.



RENEWAL & REPLACEMENT FORECASTING | PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY, FL (2019)

Project Manager. Responsible for conducting an inventory and condition assessment of all existing Authority assets. A multidisciplinary team spent a week collection data and assessing asset condition and performance data for over 1,000 assets. Developed a replacement planning model using Power BI.

STEVEN KING, PE | PROJECT MANAGER

TOTAL YEARS OF EXPERIENCE | 20

TOTAL YEARS WITH BLACK & VEATCH | 13

EDUCATION | BS, Chemical Engineering, University of South Florida

PROFESSIONAL REGISTRATION | PE - FL

PROFESSIONAL ASSOCIATIONS | American Water Works Association

LOCATION | Tampa, FL



I am passionate about driving efficient delivery for water system solutions and am excited by the opportunity to work with the City of North Port on its water infrastructure projects.”

Steven has gained a variety of experience in Civil Engineering and Project Management during his more than 20 years of experience. Design projects have included many different types of water/wastewater projects including: RO WTP upgrades, RO WTP studies, energy efficiency studies, WTP pump stations, Ground Storage Tanks, water and wastewater plant design, project management, utility investigation, water supply, pipeline design, regulatory compliance and permit preparation and review. Mr. King has extensive experience obtaining regulatory approvals for a variety of water and wastewater projects. Prior experience includes working as Permitting Supervisor during a seven-year employment with FDEP.

Steven will leverage his experience in water distribution and treatment projects from planning through design and construction to proactively drive the team.



SWITCHGEAR REPLACEMENT AND GENERATOR ADDITION | CITY OF VENICE, FL (2018-ONGOING)

Project Manager. As part of the City’s Engineer of Record contract, task included the evaluation of the existing WTP’s switchgear and generator, which resulted in the design of a replacement switchgear and second generator. Managed scope, schedule and budget and monitoring change requests from the client.



FALKENBURG FILTER VALVE & PUMP REPLACEMENT | HILLSBOROUGH COUNTY, FL (2013-2016)

Project Manager. As part of the County’s Professional Engineering Contract, managed all aspects of design task (27 new valves for the filters and new backwash pump); permitting; construction phase and startup, including managing scope schedule and budget including client coordination.



TAMPA BAY WATER ELDRIDGE-WILDE WELLFIELD | TAMPA BAY WATER, FL (2016-ONGOING)

Project Manager. Managing a project that involves the evaluation, design and replacement of 24 pumps and motors in an existing wellfield, working through challenging permitting issues, and managing a long client project delay all while maintaining scope and budget.

Category 1 | Water, Wastewater and Reclaimed Water Treatment & Storage Systems

The City will have access to a team of highly qualified professionals to deliver treatment and storage system solutions for water, wastewater, and reclaimed water projects under this contract. Our team combines proven project management with experienced local staff and specialized expertise to deliver the full array of services that may be needed to complete each project. The Black & Veatch team includes a core group of professionals that have successfully completed a variety of treatment and storage solutions for local municipalities over the past several years. We will leverage this experience to deliver high quality work products and efficient services for the City of North Port.



MIKE TACHE, PE
TECHNICAL LEAD

Leading this category's efforts will be Technical Lead Mike Tache. Mike was selected for this role based on his familiarity with the Southwest Florida region and its regulatory requirements, along with his experience in all aspects of water, wastewater, and reclaimed water treatment facility planning, design and construction services.



LUCAS BOTERO, PE, BCEE, ENV SP

WASTEWATER TREATMENT
Lucas will leverage his 20+ years of experience, including his past work in Southwest Florida, to assist with the development and implementation of wastewater process improvements for the City. He is primary chapter author for WEF's Manual of Practice for Municipal Wastewater Treatment Design.



ARTURO BURBANO, PHD, PE
WATER TREATMENT

Arturo possesses 28 years of experience in the water industry, including water, wastewater, water reuse, and stormwater treatment for municipal, industrial, and federal clients. His infrastructure project experience includes design and construction of treatment facilities ranging from 20 gpm to 750-mgd in capacity.



JO ANN JACKSON, PE
DIRECT & INDIRECT POTABLE REUSE

Jo Ann possesses 37 years of experience, which includes planning and implementing traditional urban reuse programs and designing some of the state's first and largest constructed wetland treatment systems. She oversaw Florida's first pilot testing for direct potable reuse for the City of Altamonte Springs.

TEAM EXPERIENCE

CONTINUING ENGINEERING SERVICES CONTRACT | MANATEE COUNTY, FL

As part of Black & Veatch's continuing engineering services contract for Manatee County, B&V has conducted planning and design work to support miscellaneous improvements at the County's SEWRF.



Category 2 | Water, Wastewater & Reclaimed Water Conveyance Systems

The City will benefit from our extensive experience in the design of water, wastewater, and reclaimed water pipelines and conveyance systems. Our local team has broad experience evaluating collection and distribution systems, as well as designing hundreds of miles of pipelines and hundreds of pumping stations throughout Florida. Through this experience we are familiar with local requirements related to permitting, environmental sensitivities, public acceptance/outreach, traffic maintenance, native soil conditions and associated challenges, and the local business/ contracting community.



MIKE MCGEE, PE TECHNICAL LEAD | PIPELINE DESIGN

Mike has over 27 years of experience in providing civil/site and pipeline design, permitting, and construction management solutions for a variety of utility projects. He has extensive project experience executing a variety of successful water and wastewater pipeline projects over the past 10 years.



BOBBY BURCHETT, PE PUMP, HYDRAULICS, SURGE

Bobby has 20 years of experience on a variety of water, wastewater and reclaimed water projects. He has extensive experience with utility system planning evaluations. Bobby's recent experience includes updating and calibrating hydraulic models, and performing evaluations to define improvements for enhancing system operations and reliability.



NICK ECKHARDT, PE CIVIL/MECHANICAL

Nick brings 18 years of experience in the municipal design of pipelines and conveyance systems. Through his work on several recent and ongoing projects, he has a deep understanding of system standards and processes. This skillset will be leveraged to complete the work required under this contract.



RICARDO VIEIRA, PE PIPELINE ASSESSMENT

Ricardo is experienced in design, program, project, and task management for water, wastewater, reclaimed, and stormwater transmission and conveyance projects in urban environments. He has designed more than 160,000 linear feet of large diameter pipelines over the course of his career.

TEAM EXPERIENCE

PIPELINE INFRASTRUCTURE SERVICES | HILLSBOROUGH COUNTY, FL

Black & Veatch excels at engineering highly complex pipeline projects. In 2015, our local team designed a six hundred foot long 36" diameter microtunnel crossing of I-75 in Hillsborough County.



Category 3 | Water, Wastewater, and Reclaimed Water Planning

The City will have access to a team of highly qualified water, wastewater, and reclaimed water planning professionals to meet water, wastewater and reclaimed water planning needs under this contract. Our team has successfully worked together on a number of planning projects locally and across the state. Our highly skilled and experienced local staff will provide a fresh perspective on the County's goals for growth planning and risk based capital planning.



AMANDA SCHWERMAN, PE, ENV SP
TECHNICAL LEAD | CIP/MASTER PLANNING

Leading our teams planning efforts will be Senior Planning Engineer Amanda Schwerman. Amanda brings over 14 years of experience working on hydraulic analysis and planning projects throughout Florida as well as other utilities throughout the United States.



CASEY MARIKA
WATER & WASTEWATER HYDRAULIC MODELING

Casey's experience is focused on water and wastewater-related planning projects. His focus lies in water and wastewater hydraulic modeling, but he has experience with process/mechanical and civil design as well. He is an active member of the Florida Water Environment Association.



ED RECTENWALD, PG
HYDROGEOLOGY

Ed has over 25 years of experience with design, permitting, construction, and testing of Class I injection, Class V ASR, aquifer recharge, public and industrial supply, irrigation, monitor, and rehabilitation of deteriorated wells. Ed has been involved with regional studies of the Surficial and Floridan Aquifer System.



ROBERT CHAMBERS, MBA
FUNDING & RATE STUDIES

Robert possesses extensive experience involving a variety of water and wastewater projects. His utility knowledge covers a wide range of utility finance issues, including utility rate studies, capital financing analysis, valuation studies, revenue bonds, utility regulatory processes, economic feasibility studies and cost-of-service studies.

TEAM EXPERIENCE

VENICE WATER SYSTEM MASTER PLAN UPDATE | CITY OF VENICE, FL
Black & Veatch is working with the City to update the 2013 Water Supply Master Plan to plan infrastructure improvements and effectively manage the distribution system moving forward.



Category 4 | Electrical and Instrumentation/Controls

As a top 5 ENR ranked company in both Water and Power, the City of North Port can be confident in the Black & Veatch team's capabilities in providing as-needed electrical and instrumentation & controls engineering services for the variety of tasks that may be requested. Our electrical experience includes arc flash analyses, load studies, short circuit analysis, ground fault protection, low and medium voltage power distribution systems, and generators.



RICHARD TAYLOR, PE TECHNICAL LEAD

Richard will lead our Electrical/I&C team based on over 40 years of Florida experience designing electrical/control system upgrades for facilities that were implemented while maintaining plant functionality during construction. He has worked for an electric utility and a systems integrator, which affords him a unique industry understanding.



LARRY BROUILLETTE, PE I&C ENGINEER

Larry is a senior I&C engineer responsible for the process control design at water, wastewater, and reclaimed water facilities. He has participated in a wide range of project activities including feasibility studies, alternative technology evaluation, design, construction services, final commissioning and training.



DAVID GARCIA, EIT ELECTRICAL ENGINEER

David's nine year's of experience includes the development of security and privacy SCADA policies for water and wastewater utilities. He has also led and supported projects to replace low and medium voltage switchgears, as well as replacing and adding power generation to utilities.



LAURIE KUSMAUL SYSTEMS INTEGRATION

Laurie is an industrial IT professional with experience designing SCADA networks, SCADA programming, and radio configuration training. Laurie specializes in SCADA software platforms, PLCs and RTUs, ControlLogix, CompactLogix, MicroLogix.

TEAM EXPERIENCE

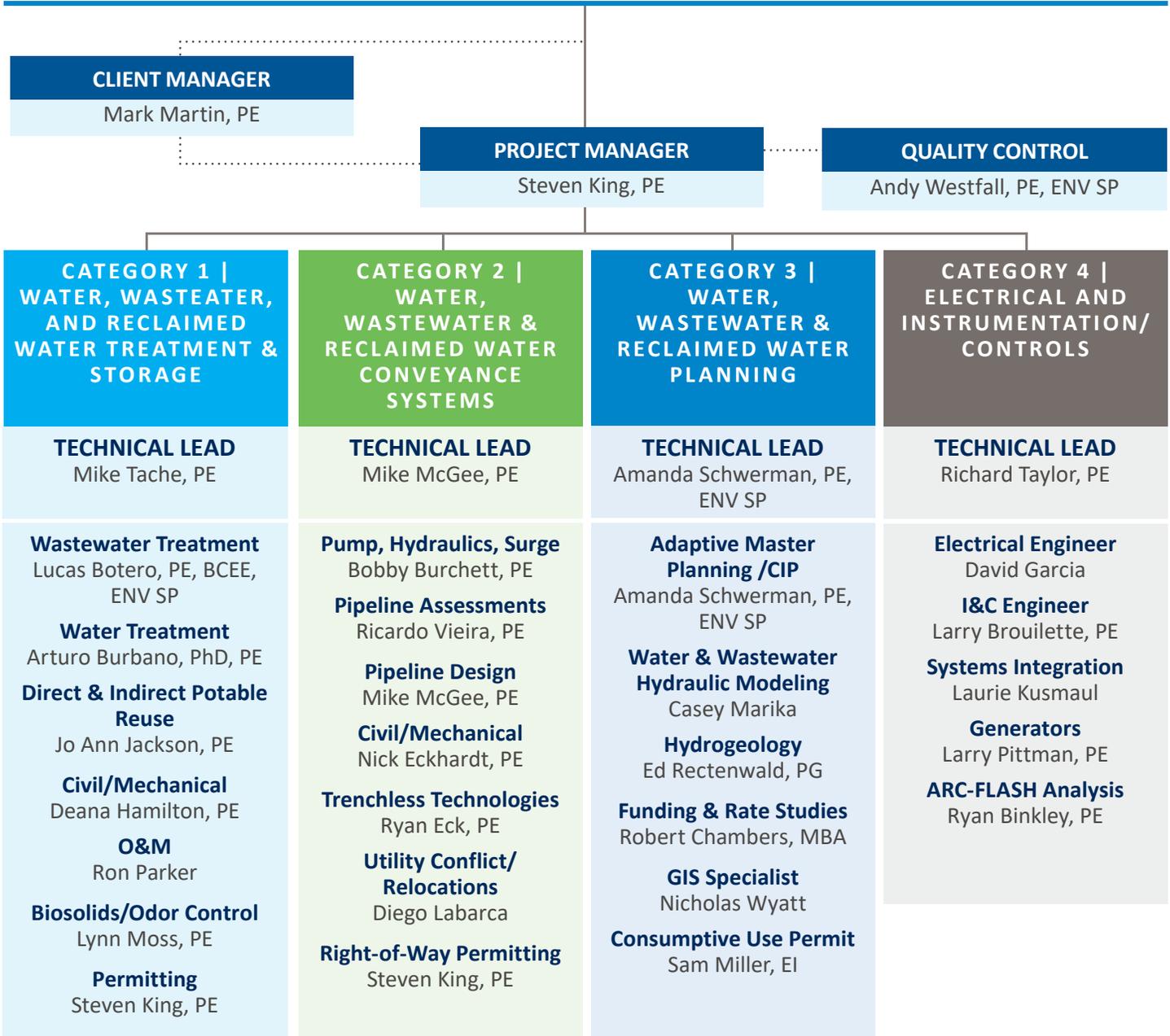
NATURAL GAS ENGINE GENERATOR AND ELECTRICAL DESIGN | CITY OF ST. PETERSBURG, FL

Black & Veatch provided engineering services to support the City's Biosolids and Energy Recovery program at its 20 mgd Southwest Water Reclamation Facility.



D. ORGANIZATIONAL CHART OF PROPOSED TEAM

CITY OF NORTH PORT



ENGINEERING SUPPORT SERVICES

Construction/Engineering Inspections
Sid Chougule, CHST

Geotechnical
Mark Chomtid, PhD, PE

Structural
Brad Vanlandingham, PE

Constructability/Value Engineering
Roger Smith

Project Controls/ Scheduling
Roberto Santiago, PE

Cost Estimating
Chad Barker

Architectural
Louis Nemeth, RA, NCARB, LEED AP

Construction Administration
George Joyce

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME Mark Martin, PE	13. ROLE Client Manager	14. YEARS EXPERIENCE	
		a. TOTAL 33	b. WITH CURRENT FIRM 33

15. FIRM NAME AND LOCATION *(City and State)*

Black & Veatch Corporation (Fort Myers, FL)

16. EDUCATION *(Degree and Specialization)*

BS, Civil Engineering

17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*

PE – FL, MI

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Member of American Water Works Association and Water Environment Federation

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
City of Fort Myers Engineer of Record (Fort Myers, FL)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Client Manager. Manages a continuing services contact, as the Engineer of Record to provide engineering consultation and assist with completion of capital projects associated with the City's Public Water System. Have completed over 27 task orders involving water supply, water treatment and water distribution.		
Lee County Wastewater Master Plan Update (Lee County, FL)	PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If Applicable)</i> N/A
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Client Manager. Responsible for an update of the County's wastewater master plan to provide a reliable and robust system with adequate capacity to accommodate future growth within the County's sewer service area. The update included data collection, population and demand projects, model update and calibration, hydraulic analysis and CIP planning.		
Peace River Manasota Regional Water Supply Authority Renewal & Replacement Forecasting (Florida)	PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If Applicable)</i> N/A
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager. Responsible for conducting an inventory and condition assessment of all existing Authority assets. A multidisciplinary team spent a week collection data and assessing asset condition and performance data for over 1,000 assets. Developed a replacement planning model using Power BI.		
Lee County Fiesta Village Advanced Wastewater Treatment Plant, Mixing Zone Study; Fort Myers, FL	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If Applicable)</i> N/A
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager. Responsible for collection of field data and preparation of a mixing zone study for the 5.0 mgd Fiesta Village AWWTP. The development of a mixing zone in the Caloosahatchee River allowed the County to renew their NPDES permit and continue their surface water discharge.		
City of Fort Myers South AWWTP Influent Sewer Rehabilitation; Fort Myers, FL	PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If Applicable)</i> N/A
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager. Responsible for inspection and condition assessment of existing 54-inch influent sewer to the 12 mgd South AWWTP.		

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME Steven King, PE	13. ROLE Project Manager Permitting Right-of-Way Permitting	14. YEARS EXPERIENCE a. TOTAL 20 b. WITH CURRENT FIRM 13	
15. FIRM NAME AND LOCATION <i>(City and State)</i> Black & Veatch Corporation (Tampa, FL)			
16. EDUCATION <i>(Degree and Specialization)</i> BS, Chemical Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> PE – FL	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Member of American Water Works Association			
19. RELEVANT PROJECTS			
	(1) TITLE AND LOCATION <i>(City and State)</i> Hillsborough County NWRWRF Solids Dewatering Facility (Odessa, FL)	(2) YEAR COMPLETED PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
a.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager. Responsible for management of the design of the new Solids Dewatering Facility for Hillsborough County at the Northwest WRF. Management duties include keeping internal staff on task and budget, working closely with the client in many meetings and processing several change requests and addition of new scope.		
	(1) TITLE AND LOCATION <i>(City and State)</i> City of Venice Utility System Energy Use & Efficiency Study (Venice, FL)	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If Applicable)</i> N/A
b.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager. Responsible for the Energy Use and Efficiency Study for the City of Venice WTP, WRF and other utility processes. The study includes a detailed review of the existing energy use, existing utility bills, proposed energy savings opportunities, equipment improvement recommendations and a high-level review of solar PV opportunities.		
	(1) TITLE AND LOCATION <i>(City and State)</i> Hillsborough County Valrico AWTP Energy Optimization & Renewable Energy Study (Valrico, FL)	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If Applicable)</i> N/A
c.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager. Responsible for the Energy Optimization and Renewable Energy Study for Hillsborough County Valrico AWTP. The study includes a detailed review of the existing energy use, existing utility bills, proposed energy savings opportunities, equipment improvement recommendations and a detailed initial design of an optimized solar photovoltaic system.		
	(1) TITLE AND LOCATION <i>(City and State)</i> City of Venice RO WTP Efficiency Study (Venice, FL)	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If Applicable)</i> N/A
d.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager. Responsible for all aspects of the RO WTP Efficiency Study. The study is focused on the plant's ability to increase the recovery to 75% from the current 50%.		
	(1) TITLE AND LOCATION <i>(City and State)</i> Tampa Bay Water Eldridge-Wilde Wellfield Rehabilitation Project (Hillsborough/Pinellas County, FL)	(2) YEAR COMPLETED PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
e.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager. Duties included leading the design and managing the other disciplines for the wellfield rehabilitation project. The project involves new pumps and motors, discharge piping, well houses, site civil, leading the permitting, electrical and I&C.		

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME Andy Westfall, PE, ENV SP	13. ROLE Quality Control	14. YEARS EXPERIENCE	
		a. TOTAL 30	b. WITH CURRENT FIRM 30
15. FIRM NAME AND LOCATION <i>(City and State)</i> Black & Veatch Corporation (Tampa, FL)			
16. EDUCATION <i>(Degree and Specialization)</i> BS, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> PE – FL; Envision Sustainability Professional	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Member of American Water Works Association; Water Environment Federation; Florida Water Environmental Association			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
Hillsborough County Professional Engineering Services for Misc. Water, Wastewater, and Reclaimed Water Projects (Tampa, FL)		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
a.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Director. Black & Veatch is providing services to Hillsborough County on an as-needed basis to support projects related to the County’s potable water, wastewater, and reclaimed water facilities. These projects involve a wide range of infrastructure types and include a wide range of services such as studies, master planning, preliminary and detailed design, permitting, bidding services, construction administration, and construction inspection.		<input checked="" type="checkbox"/> Check if project performed with current firm
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
City of St Petersburg Continuing Engineering Services Contract (St. Petersburg, FL)		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
b.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Director. Black & Veatch has completed dozens of projects for the City of St. Petersburg under the City’s contract for Miscellaneous Professional Services for Potable Water, Wastewater, and Reclaimed Water projects dating back to the early 1990s.		<input checked="" type="checkbox"/> Check if project performed with current firm
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
Manatee County Continuing Engineering Services Contract (SEWRF); (Bradenton, FL)		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
c.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Director. Project includes replacement of RAS/WAS pumping systems, secondary clarifier improvements, and improvements to the mixed liquor splitter box. Additionally, responsible for the design of an upgraded plant drain pump station system for the Manatee County Southeast WRF		<input checked="" type="checkbox"/> Check if project performed with current firm
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
City of Tampa Potable Water System Master Plan (Tampa, FL)		PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If Applicable)</i> N/A
d.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE QA/QC. Black & Veatch assisted the City staff to develop an updated Potable Water System Master Plan.		<input checked="" type="checkbox"/> Check if project performed with current firm
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
Peace River Manasota Regional Water Supply Authority 1991 Facility Rebuild (Punta Gorda, Florida)		PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If Applicable)</i> N/A
e.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Director. Provided engineering services to support widespread improvements to the Peace River Facility Trains 1 and 2 with a treatment capacity of 12 MGD. Trains 1 and 2 were acquired by the Authority in 1991 but were originally constructed in the late 1970s by General Development Corporation. Improvements include structural, mechanical, process, chemical feed, electrical, and instrumentation upgrades.		<input checked="" type="checkbox"/> Check if project performed with current firm

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME Mike Tache, PE	13. ROLE Category 1 Technical Lead	14. YEARS EXPERIENCE	
		a. TOTAL 13	b. WITH CURRENT FIRM 13

15. FIRM NAME AND LOCATION *(City and State)*
Black & Veatch Corporation (Tampa, FL)

16. EDUCATION <i>(Degree and Specialization)</i> MS, Environmental Engineering; BS, Civil and Environmental Engineering,	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> PE – FL, CA
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
 Member of AWater Environment Federation; California Water Environment Association; WateReuse

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i> Pinellas County Water and Sewer Optimization Program (Clearwater, FL)	(2) YEAR COMPLETED PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager. As part of the study, Black & Veatch worked closely with County Staff to define and implement cost-saving optimization improvements and long-term sustainable solutions for multiple facilities & systems.		
	(1) TITLE AND LOCATION <i>(City and State)</i> Manatee County Continuing Engineering Services Contract (SEWRF) (Bradenton, FL)	(2) YEAR COMPLETED PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
b.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager. Project includes replacement of RAS/WAS pumping systems, secondary clarifier improvements, and improvements to the mixed liquor splitter box. Additionally, responsible for the design of an upgraded plant drain pump station system for the Manatee County Southeast WRF.		
	(1) TITLE AND LOCATION <i>(City and State)</i> Hillsborough County William E. Dunn Wastewater Reclamation Facility (WEDWRF) Filtration and Disinfection Improvements Evaluation (Palm Harbor, FL)	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If Applicable)</i> N/A
c.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager. Responsibilities included managing the conceptual design work for a Filtration and Disinfection System Improvements Evaluation.		
	(1) TITLE AND LOCATION <i>(City and State)</i> City of St. Petersburg Engineering Services for Potable Water, Wastewater, and Reclaimed Water Projects (St. Petersburg, FL)	(2) YEAR COMPLETED PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
d.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager. Assignments have included design, permitting, and construction phase services as well as master planning, engineering studies, and security assessments. Our work involved all the City’s major water and wastewater treatment plants and pumping facilities.		
	(1) TITLE AND LOCATION <i>(City and State)</i> Pasco County Continuing Professional Services (Lacoochee Well Improvements) (New Port Richey, FL)	(2) YEAR COMPLETED PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
e.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager. The potable well-site has experienced elevated iron concentrations exceeding the secondary MCL. Evaluated various treatment process improvements and performed life cycle cost evaluations to define the most appropriate solution and design features.		

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME		13. ROLE		14. YEARS EXPERIENCE	
Mike McGee, PE, BCEE		Technical Lead Category 2 Pipeline Design		a. TOTAL	b. WITH CURRENT FIRM
				29	2
15. FIRM NAME AND LOCATION <i>(City and State)</i>					
Black & Veatch Corporation (Fort Myers, FL)					
16. EDUCATION <i>(Degree and Specialization)</i>			17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>		
MS, Civil Engineering; BS, Mechanical Engineering			PE – FL, DE		
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>					
Member of Water Environment Federation and American Water Works Association; Past President of Peace River Engineering Society					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED		
City of Fort Myers Central AWWTP Trunk Main Replacement (Fort Myers, FL)			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>	
			2018	N/A	
a.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm	
Senior Project Manager & Design Lead. Led design, permitting, and construction phase services for this \$22M sanitary sewer trunk main replacement which involved construction of over 9,500 LF of 42- and 36-inch gravity sewer piping and 61 large diameter manholes, over 2,900 LF of 36-inch wastewater force main piping; over 6,900 LF of new 12- and 8-inch potable water piping transmission mains.					
(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED		
Charlotte County Utilities US-41 Utility Expansion (Port Charlotte, FL)			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>	
			2015	N/A	
b.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input type="checkbox"/> Check if project performed with current firm	
Senior Project Manager and Design Engineer. Project involved extensive coordination with the FDOT road widening designer, FDOT, CCU, and other utility stakeholders to provide utility transmission main improvements to the north portion of their service area.					
(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED		
City of North Port 10-Year Water Supply Work Plan (City of North Port, FL)			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>	
			2017	N/A	
c.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input type="checkbox"/> Check if project performed with current firm	
Senior Project Manager and Design Engineer. Project involved extensive coordination with the FDOT road widening designer, FDOT, North Port Utilities, and other utility stakeholders to provide utility transmission main upsizing and relocation improvements along this portion of the City's US-41 service area.					
(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED		
City of North Port WWTP FDEP Operating Permit Renewal (City of North Port, FL)			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>	
			2017	N/A	
d.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input type="checkbox"/> Check if project performed with current firm	
Senior Project Manager & Lead Engineer. Responsible for all aspects of the evaluation and report of the City of North Port's 10-Year Water Supply Work Plan which was completed and approved by the City and the SWFWMD in 2017.					
(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED		
City of North Port RO Reject Force Main (City of North Port, FL)			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>	
			2012	N/A	
e.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input type="checkbox"/> Check if project performed with current firm	
Senior Project Manager & Lead Engineer. Responsible for the fast-track effort to renew the City of North Port's WWTP FDEP operating permit in 2017.					

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME		13. ROLE		14. YEARS EXPERIENCE	
Amanda Schwerman, PE, ENV SP		Technical Lead Category 3 Adaptive Master Planning/CIP		a. TOTAL	b. WITH CURRENT FIRM
				14	6
15. FIRM NAME AND LOCATION <i>(City and State)</i>					
Black & Veatch Corporation (Tampa, FL)					
16. EDUCATION <i>(Degree and Specialization)</i>			17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>		
MS, Environmental Science and Engineering; BS, Engineering			PE –FL; Envision™ Sustainability Professional		
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>					
Member of American Water Works Association; Florida Water Environment Association; WateReuse Association					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED		
City of Tampa Potable Water System Master Plan (Tampa, FL)			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>	
			2019	N/A	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm		
a.	Project Manager/Lead Planning Engineer. Black & Veatch assisted the City staff to develop an updated Potable Water System Master Plan. Black & Veatch performed the following tasks: updated and calibrated the existing hydraulic model; distribution system analysis; asset management program development; enhanced the risk based pipeline prioritization framework for recommended pipeline replacement projects; CIP planning support; documented the Master Plan; and trained City Staff on the continued use and updating of the planning tools.				
(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED		
City of Plant City Wastewater Master Plan (Plant City, FL)			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>	
			Ongoing	N/A	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	Project Manager. Plant City's Utilities Department collection system services a population of approximately 38,000 people. The goal of the Wastewater Master Plan is to define the improvements needed over the planning horizon to develop and maintain a reliable system with adequate capacity to accommodate future growth.				
(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED		
Tampa Bay Water System Engineer (Hillsborough, Pinellas and Pasco County, FL)			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>	
			2017	N/A	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	Lead Planning Engineer/Hydraulic Modeling. Black & Veatch supported an extensive regional water supply program, which included a \$1.4 billion capital improvement program.				
(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED		
Pinellas County Water Master Plan (Clearwater, FL)			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>	
			Ongoing	N/A	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	Project Manager. Black & Veatch was selected to update the County's master plan for the system, including its source waters and pumping, distribution, and treatment facilities.				
(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED		
Polk County WWTF Condition Assessments (Winter Haven, FL)			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>	
			2020	N/A	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm		
e.	Asset Management Lead. As part of a comprehensive asset management program, the County contracted with Black & Veatch to collect asset inventory data from these facilities for use in a CMMS program. Additionally, condition assessments were conducted in conjunction with the asset inventory data.				

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME		13. ROLE		14. YEARS EXPERIENCE	
Richard Taylor, PE		Technical Lead Category 4		a. TOTAL 43	b. WITH CURRENT FIRM 18
15. FIRM NAME AND LOCATION <i>(City and State)</i>					
Black & Veatch Corporation (Tampa, FL)					
16. EDUCATION <i>(Degree and Specialization)</i>			17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>		
BS, Electrical Engineering			PE – FL, GA		
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>					
Member of National Society of Professional Engineers					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED		
	Hillsborough County William E. Dunn Wastewater Reclamation Facility (WEDWRF) Filtration and Disinfection Improvements Evaluation (Palm Harbor, FL)		PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If Applicable)</i> N/A	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm		
Electrical/I&C Engineer. Black & Veatch was tasked with evaluating the existing electrical systems and equipment at the WEDWRF and identifying the most appropriate improvements approach with optimal safety, reliability, long-term durability, operational flexibility.					
b.	(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED		
	City of Fort Myers Engineer of Record (Fort Myers, FL)		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm		
Electrical/I&C Engineer. Led electrical and I&C engineering for numerous assignments including : evaluation of the City's brackish water supply wellfield; RO treatment plant optimization evaluation; and design for the rehabilitative work on two water supply wells.					
c.	(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED		
	Hillsborough County Professional Engineering Services for Misc. Water, Wastewater, and Reclaimed Water Projects (Tampa, FL)		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm		
Electrical/I&C Engineer. Black & Veatch is providing services to Hillsborough County on an as-needed basis to support projects related to the County's potable water, wastewater, and reclaimed water facilities.					
d.	(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED		
	City of St Petersburg Continuing Engineering Services Contract (St. Petersburg, FL)		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm		
Electrical/I&C Engineer. Black & Veatch has completed dozens of projects for the City of St. Petersburg under a continuing professional services contract for Water, Wastewater, and Reclaimed Water systems and facilities.					
e.	(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED		
	City of Lakeland Professional Engineering Services (Lakeland, FL)		PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If Applicable)</i> N/A	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm		
Electrical / I&C Engineer. Black & Veatch provides engineering services in a broad range of engineering fields related to the City's water, wastewater, and reclaimed water systems. Some examples of the work assignments completed under this contract include the Northeast Wellfield Energy Efficiency Study and T.B Williams WTP Process Control System Upgrade.					

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME Lucas Botero, PE, BCEE, ENV SP	13. ROLE Category 1. Wastewater Treatment	14. YEARS EXPERIENCE	
		a. TOTAL 23	b. WITH CURRENT FIRM 19

15. FIRM NAME AND LOCATION *(City and State)*
Black & Veatch Corporation (Coral Springs, FL)

16. EDUCATION <i>(Degree and Specialization)</i> MS, Civil Engineering; BS Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> PE – FL, KS, Columbia; Envision Sustainability Professional
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
 Member of Water Environmental Federation; International Water Association; Board Certified Environmental Engineer

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
Pinellas County Water and Sewer Optimization Program (Clearwater, FL)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Process Engineer. Black & Veatch serves as Pinellas County’s Water & Sewer Optimization Program Consultant under a 5-year contract. Under this contract, Black & Veatch has worked closely with County Staff to implement “quick-hit” optimization improvements and define long-term sustainable solutions for its water and sewer facilities and systems		
Pasco County Continuing Professional Services (New Port Richey, FL)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Process Engineer. Black & Veatch has completed a number of projects for Pasco County under the County’s Continuing Services Contract, including the following: Embassy Hills WWTF Assessment; Consulting Services to Address Boyette Reservoir Pump Motors Issues; and Cypress Manor WWTF Condition Assessment.		
WWTP Improvements (Cudjoe Key, FL)	PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(If Applicable)</i> N/A
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Process Specialist. Startup phase of the Cudjoe Key WWTP improvements. This greenfield plant included fine screening, equalization, five-stage Bardenpho®, secondary clarifiers, filtration, chlorination, deep well injection, RDT thickening, aerobic digestion, and centrifuge dewatering.		
WWTP TP Alternatives, Evaluations and Plant Improvements (St. Charles, IL)	PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(If Applicable)</i> N/A
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Process Specialist. Led the evaluation of alternatives to comply with TP of 1.0 mg/L and contemplation of 0.5 mg/L in the future and a general WWTP capacity assessment.		
WWTP TP Alternatives Evaluations and Plant Improvements (Geneva, IL)	PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If Applicable)</i> N/A
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Process Specialist. Led the evaluation of alternatives to comply with TP of 1.0 mg/L and contemplation of 0.5 mg/L in the future, diagnosed and determined the required improvements to the air delivery system, and a general WWTP capacity assessment.		

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME		13. ROLE		14. YEARS EXPERIENCE	
Auturo Burbano, PhD, PE		Category 1. Water Treatment		a. TOTAL	b. WITH CURRENT FIRM
				28	<1
15. FIRM NAME AND LOCATION <i>(City and State)</i>					
Black & Veatch Corporation (Coral Springs, FL)					
16. EDUCATION <i>(Degree and Specialization)</i>			17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>		
Ph.D., Environmental Engineering; MS, Industrial Engineering; BS/MS, Chemical Engineering,			PE – FL, CA, NV		
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>					
Member of American Academy of Environmental Engineers; and American Water Works Association					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED		
	Miami-Dade Water and Sewer Department (WASD) CD2.07(3) Central District Wastewater Treatment Plant (CDWWTP) Plant 1 Clarifiers Structural Rehabilitation (Miami, FL)		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>	
			2019	N/A	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			Check if project performed with current firm <input type="checkbox"/>		
Project Manager. Managed this project, which consisted of completing structural rehabilitations for five (5) clarifiers located at Plant 1.					
b.	(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED		
	Hillsborough County Public Utilities Department (PUD) South Hillsborough Aquifer Recharge Project (SHARP) Phase II (Tampa, FL)		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>	
			2019	N/A	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			Check if project performed with current firm <input type="checkbox"/>		
Technical Advisor/Principal in Charge. Included Phase II of PUD's SHARP project. This landmark water reuse project was originally developed by PUD to determine the feasibility of using available reclaimed water to recharge the Upper Floridian aquifer within the Southern Water Use Caution Area (SWUCA).					
c.	(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED		
	Peace River Manasota Regional Water Supply Authority Regional Evaluation of Disinfection By-Products in the Distribution System (Lakewood Ranch, FL)		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>	
			2016	N/A	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			Check if project performed with current firm <input type="checkbox"/>		
Project Manager. Led a comprehensive water quality evaluation of the occurrence of chlorinated DBPs in the Authority's regional transmission mains, the distribution systems of the member governments, and selected Authority's customers.					
d.	(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED		
	Peace River Manasota Regional Water Supply Authority PRMRWSA Master Plan (Lakewood Ranch, FL)		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>	
			2016	N/A	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			Check if project performed with current firm <input type="checkbox"/>		
Task Manager/Technical Advisor. Served as Task Manager/Technical Advisor for the update of the PRMRWSA Master Plan and Cost Estimation Development.					
e.	(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED		
	Miami Dade Water and Sewer Department (WASD) CD2.31 Pump Station No. 1 Upgrades (Miami, FL)		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>	
			2016	N/A	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			Check if project performed with current firm <input type="checkbox"/>		
Project Manager. Managed the detailed design of the upgrades to the 160-MGD Pump Station No.1. He managed the engineering team throughout completion of the following tasks of this Consent Decree.					

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME Jo Ann Jackson, PE	13. ROLE Category 1. Direct & Indirect Potable Reuse	14. YEARS EXPERIENCE	
		a. TOTAL 37	b. WITH CURRENT FIRM 1

15. FIRM NAME AND LOCATION *(City and State)*
Black & Veatch Corporation (Tampa, FL)

16. EDUCATION <i>(Degree and Specialization)</i> MS, Environmental Engineering, Wastewater/Hazardous Waste; BS, Environmental Science	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> PE – FL
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
 Member of Water Environment Federation; WaterReuse Association; American Water Works Association

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>
a.	City of Winter Haven One Water Plan (Winter Haven, FL)	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Technical Advisor. Technical Advisor for the Development of a One Water Plan for the City of Winter Haven in west-central Florida. Black & Veatch is assisting Winter Haven with developing an integrated plan to manage the area’s finite water resources for long-term resiliency, sustainability and reliability, meeting both community and ecosystem needs.		
b.	City of Altamonte Springs pureALTA Potable Reuse System (Altamonte Springs, FL)	2019	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Utility Division Director. Managed the planning, design, and implementation then overseeing staff in operations of the City’s potable reuse pilot, pureALTA.		
c.	City of Altamonte Springs AFIRST Integrated Water Resources Program (Altamonte Springs, FL)	2016	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Utility Division Director. Managed the planning, design, and implementation then overseeing staff in operations of the AFIRST integrated water resources program. The grant funded project provides for integration of stormwater into the City’s urban reuse system with excess water delivered to the nearby City of Apopka where the water is reused or delivered to large basins for storage and recharge.		
d.	Water Supply Strategies/10-Year Water Supply Plan (Palatka, FL)	2000	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Manager. Managed investigation of water supply strategies in support of the District’s Ten-Year Water Supply Plan		
e.	Volusian Water Alliance Regional Water Supply Plan (Daytona Beach, FL)	2000	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Manager. Managed the development of a water supply plan the Volusian Water Alliance composed of Volusia County and 16 municipalities		

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME Deana Hamilton, PE	13. ROLE Category 1. Civil/Mechanical	14. YEARS EXPERIENCE	
		a. TOTAL 9	b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION <i>(City and State)</i> Black & Veatch Corporation (Tampa, FL)			
16. EDUCATION <i>(Degree and Specialization)</i> BS, Civil & Environmental Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> PE – FL, OH	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Member of Florida Water Environment Association			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
City of Tampa Methanol Storage Replacement Project (Tampa, FL)		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
Engineering Manager. This project includes replacement of the existing 100,000-gallon methanol storage tank with two new 50,000-gallon stainless steel tanks with internal floating roofs for vapor mitigation. A key aspect of this project is maintaining operation of the methanol dosing system throughout construction activities.			
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
Pinellas County Water and Sewer Optimization Program (Clearwater, FL)		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
Civil/Mechanical Engineer. Responsible for implementing several work assignments related to optimizing the Pinellas County water, wastewater, and reclaimed water facilities and systems. Involved with the development of Master Plans for the WEDWRF and SCBWRF as well as an evaluation of the County's reclaimed water pump station at the WEDWRF.			
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
Pasco County Embassy Hills WWTP Improvements Project (New Port Richey, FL)		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
Civil / Mechanical Engineer. Responsible for design and implementation of recommended improvements to the 3.5 MGD WWTP to optimize plant performance, improve ease of operations and maintenance, and enhance plant reliability.			
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
Manatee County Continuing Engineering Services Contract (SEWRF) (Bradenton, FL)		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
Engineering Manager. Project includes replacement of RAS/WAS pumping systems, secondary clarifier improvements, and improvements to the mixed liquor splitter box. Additionally, responsible for the design of an upgraded plant drain pump station system for the Manatee County Southeast WRF.			
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
Southerly Optimized Parallel Treatment (Cleveland, OH)		PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If Applicable)</i> N/A
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm	
Civil Engineer. Developed operational strategy and procedures to meet Consent Decree requirements to manage wet weather flows from the combined sewer system.			

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME Ron Parker	13. ROLE Category 1. O&M	14. YEARS EXPERIENCE	
		a. TOTAL 37	b. WITH CURRENT FIRM 12

15. FIRM NAME AND LOCATION *(City and State)*
Black & Veatch Corporation (Tampa, FL)

16. EDUCATION <i>(Degree and Specialization)</i> BS, Education; A.A. Degree	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Certified Class IV Water Supply Operator
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>
a.	Hillsborough County Professional Engineering Services for Miscellaneous Water, Wastewater, and Reclaimed Water Projects (Tampa, FL)	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Operations Specialist. Black & Veatch is providing services to Hillsborough County on an as-needed basis to support projects related to the County’s potable water, wastewater, and reclaimed water facilities.		
b.	City of Fort Myers WTP Engineer of Record (Fort Myers, FL)	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Operations Specialist. Black & Veatch performed an array of services to support facility improvements and delivery of high-quality potable water service to customers.		
c.	City of Tampa Potable Water System Master Plan (Tampa, FL)	2019	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Operations Specialist. Black & Veatch assisted the City staff to develop an updated Potable Water System Master Plan. Black & Veatch performed various tasks that included an updated and calibrated the existing hydraulic model; distribution system analysis for the existing system and planning years 2020, 2025 and 2035; pumping and storage facility assessments; and enhanced the risk based pipeline prioritization framework.		
d.	Tampa Bay Water Operations Manager (Tampa, FL)	2012	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Operations Manager. Responsible for the management of all operational activities, including project development, project startup and commissioning, annual budget preparation, management of contract operations, regulatory reporting, and blended water stability of mixed groundwater, surface water, and desalinated water supplies.		
e.	City of Venice Reverse Osmosis Efficiency Study; Venice, FL	2018	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Operations Specialist. The City of Venice owns, operates, and maintains a brackish groundwater reverse osmosis water treatment plant. As a part of the water supply permit, a detailed study was completed to improve the water recovery efficiency to the highest degree feasible; with a target of 75% or greater.		

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME Lynn Moss, PE	13. ROLE Category 1. Biosolids/Odor Control	14. YEARS EXPERIENCE	
		a. TOTAL 37	b. WITH CURRENT FIRM 5
15. FIRM NAME AND LOCATION <i>(City and State)</i> Black & Veatch Corporation (Gaithersburg, MD)			
16. EDUCATION <i>(Degree and Specialization)</i> BS, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> PE – TX	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Member of Water Environment Federation			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
Pinellas County Water and Sewer Optimization Program (Clearwater, FL)		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
a.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Biosolids/Odor Control. Responsible for implementing several work assignments related to optimizing the Pinellas County water, wastewater, and reclaimed water facilities and systems. Involved with the development of Master Plans for the WEDWRF and SCBWRF as well as an evaluation of the County's reclaimed water pump station at the WEDWRF.		<input checked="" type="checkbox"/> Check if project performed with current firm
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
Gwinnett County Department of Water Resources Biosolids Master Plan (Lawrenceville, GA)		PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If Applicable)</i> N/A
b.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Regulatory and Market Assessment Lead. Performed a regulatory review, focusing on both existing rules and regulatory trends that might impact the County's plan to transition from landfilling to beneficial use of a heat-dried biosolids product.		<input checked="" type="checkbox"/> Check if project performed with current firm
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
City of Columbus Compost Facility Preliminary Design Peer Review (Columbus, OH)		PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If Applicable)</i> N/A
c.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Technical Lead. Led an assessment of the City's proposed composting facility design, focusing on process optimization to reduce odor generation, composting aeration strategies and design, and biofiltrations.		<input checked="" type="checkbox"/> Check if project performed with current firm
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
Trinity River Authority Stage IX Odor Improvements (Grand Prairie, TX)		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
d.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Leading a project to address odor concerns at the headworks of the 189 MGD Central Regional Wastewater System (CRWS) plant. The evaluation will include vapor phase assessments of existing biological systems, as well as liquid treatment approaches.		<input checked="" type="checkbox"/> Check if project performed with current firm
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
City of Jacksonville Ellis and Brynn Marr Pump Station Odor Control Assessment (Jacksonville, NC)		PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If Applicable)</i> N/A
e.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Technical Manager. Led a study to identify odor and corrosion reduction improvements for two pump stations, each fitted with existing but inadequate odor control systems. Based upon condition and ventilation evaluations, determined that the existing units were both well undersized and beyond repair.		<input checked="" type="checkbox"/> Check if project performed with current firm

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME Bobby Burchett, PE, ENV SP	13. ROLE Category 2. Pump, Hydraulics, Surge	14. YEARS EXPERIENCE	
		a. TOTAL 19	b. WITH CURRENT FIRM 19

15. FIRM NAME AND LOCATION *(City and State)*
Black & Veatch Corporation (Tampa, FL)

16. EDUCATION <i>(Degree and Specialization)</i> BS, Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> PE – FL, Envision Sustainability Professional
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Member of American Water Works Association

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Tampa Methanol Storage Replacement Project (Tampa, FL)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Director. This project includes replacement of the existing 100,000-gallon methanol storage tank with two new 50,000-gallon stainless steel tanks with internal floating roofs for vapor mitigation.		<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Tampa Potable Water System Master Plan (Tampa, FL)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If Applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Black & Veatch assisted the City staff to develop an updated Potable Water System Master Plan. Black & Veatch performed various tasks that included an updated and calibrated the existing hydraulic model; distribution system analysis for the existing system and planning years 2020, 2025 and 2035; pumping and storage facility assessments; and enhanced the risk based pipeline prioritization framework.		<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION <i>(City and State)</i> Hillsborough County Professional Engineering Services for Misc. Water, Wastewater, and Reclaimed Water Projects (Florida)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Black & Veatch is providing services to Hillsborough County on an as-needed basis to support projects related to the County’s potable water, wastewater, and reclaimed water facilities. These projects involve a wide range of infrastructure types and include a wide range of services.		<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION <i>(City and State)</i> Tampa Bay Water System Engineer (Hillsborough, Pinellas and Pasco County, FL)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If Applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Responsible for planning and engineering analyses to support the management and operation of the Tampa Bay Water regional system.		<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION <i>(City and State)</i> Pasco County Continuing Professional Services (New Port Richey, FL)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Contract Manager. Black & Veatch has completed a number of projects for Pasco County under a Continuing Services Contract since 2016. Projects have included: Embassy Hills WWTF Assessment; Consulting Services to Address Boyette Reservoir Pump Motors Issues; Cypress Manor WWTF Condition Assessment and FDEP Permit Renewal Support; Cowpath Master Pump Station Replacement Project; and the Lacoochee Well Improvements.		<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME Ricardo Vieira, PE	13. ROLE Category 2. Pipeline Assessment	14. YEARS EXPERIENCE	
		a. TOTAL 21	b. WITH CURRENT FIRM 3
15. FIRM NAME AND LOCATION <i>(City and State)</i> Black & Veatch Corporation (Coral Springs, FL)			
16. EDUCATION <i>(Degree and Specialization)</i> BS, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> PE – FL	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Member of American Society of Civil Engineers			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
WASD Project SL-2.1 – SP-1 Transmission Force Main Phase 3 (Miami, FL)		PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If Applicable)</i> N/A
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
<p>Project Manager. Project SL-2.1 consisted of installing approximately 12,600 ft. of 60-inch pipe and fittings for a force main in Miami-Dade County, FL. Special elements included conventional “cut and cover” work within a narrow road right-of-way along SW 137th Avenue between SW 184th Street and SW 200th Street, a trenchless crossing to cross Black Creek Canal (C-1W), a trenchless installation along 200th Street (SR 994), a Florida Department of Transportation road right-of-way from SW 137th Avenue to SW 134th Avenue, and a trenchless installation along SW 134th Avenue from SW 200th Street to SW 208th Street.</p>			
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
WASD Program Management Consultant Contract to Establish a Comprehensive Infrastructure Assessment and Replacement Program for the Utility (Miami, FL)		PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If Applicable)</i> N/A
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm	
<p>Deputy Program Manager. Involved the preparation of condition evaluation, forensic analysis, risk determination and renewal options protocol. The program provided the organizational structure required for implementation of the rehabilitation of the County’s water system for 30 years while maximizing the impact of available funding. WASD utilized the Program Plan to administer evaluation and rehabilitation of the deteriorated assets.</p>			
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
WASD Design-Build Criteria for the Government Cut 20-inch Water Main and 54-inch Force Main Replacement (Miami, FL)		PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If Applicable)</i> N/A
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm	
<p>Project Coordinator. Part of the design team that developed design-build criteria package for the replacement of the existing 54-inch force main that runs from Miami Beach to the Central District Wastewater Treatment Plant (CDWWTP) and for the replacement of the existing 20-inch water main from Port Island to Fisher Island.</p>			
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
Transmission Line Condition Assessment Rehabilitation Program (TLCARP) (Houston, TX)		PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If Applicable)</i> N/A
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm	
<p>Project Coordinator. Part of the team tasked with developing the Transmission Line Condition Assessment Rehabilitation Program (TLCARP). The primary objective of the TLCARP was to identify and prioritize the existing large diameter water lines to pinpoint sections in need of more detailed assessments and ultimately repair or replacement. The effort included establishing specific evaluation criteria and system operational preferences to formulate a weighted evaluation matrix for identifying and prioritizing assess/repair/replace projects.</p>			

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME		13. ROLE		14. YEARS EXPERIENCE	
Nick Eckhardt, PE		Category 2. Civil/Mechanical		a. TOTAL	b. WITH CURRENT FIRM
				15	12
15. FIRM NAME AND LOCATION <i>(City and State)</i>					
Black & Veatch Corporation (Tampa, FL)					
16. EDUCATION <i>(Degree and Specialization)</i>			17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>		
BS, Civil Engineering			PE – FL		
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>					
Member of American Water Works Association; American Society of Civil Engineers					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED		
Hillsborough County Sanitary Sewer Rehabilitation Construction Inspection Services (Tampa, FL)			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>	
			2019	N/A	
a.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm	
<p>Project Manager. Black & Veatch was retained by Hillsborough County to provide on-site construction representation and engineering support services for the rehabilitation of approximately 77,500 linear feet of sanitary sewers (8" through 18" pipe) in the Greater Tampa Area. This collection system rehabilitation program's primary goal is to reduce infiltration and inflow sources in the sanitary sewer collection system.</p>					
(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED		
Pasco County Continuing Engineering Services (Cow Path Pump Station) (New Port Richey, FL)			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>	
			Ongoing	N/A	
b.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm	
<p>Engineering Manager. The Cow Path Pump Station is a new triplex lift station that will replace an existing wastewater pump station. B&V designed a standard triplex wetwell system with three chopper type submersible pumps. The site was designed to account for future growth by adding manholes and stubs for a second future wetwell.</p>					
(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED		
Hillsborough County Professional Engineering Services for Miscellaneous Water, Wastewater, and Reclaimed Water Projects (Tampa, FL)			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>	
			Ongoing	N/A	
c.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm	
<p>Project Manager. Black & Veatch is providing services to Hillsborough County on an as-needed basis to support projects related to the County's potable water, wastewater, and reclaimed water facilities. These projects involve a wide range of infrastructure types and include a wide range of services such as studies, master planning, preliminary and detailed design, permitting, bidding services, construction administration, and construction inspection. More than 30 individual assignments have been undertaken for the County under this contract since its inception in 2007.</p>					
(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED		
Hillsborough County South County Booster Pump Station to 19th Ave Water Transmission Main (Tampa, FL)			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>	
			2019	N/A	
d.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm	
<p>Project Manager. Black & Veatch was retained by Hillsborough County to provide design and construction phase services for a new potable water transmission main in the South County service area to improve water quality and to facilitate future expansion of the distribution system in a growing area of Hillsborough County. The project included identifying and evaluating three (3) separate pipeline paths.</p>					

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME Ryan Eck, PE	13. ROLE Category 2. Trenchless Technologies	14. YEARS EXPERIENCE	
		a. TOTAL 9	b. WITH CURRENT FIRM 7
15. FIRM NAME AND LOCATION <i>(City and State)</i> Black & Veatch Corporation (Tampa, FL)			
16. EDUCATION <i>(Degree and Specialization)</i> BS, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> PE – FL	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Member of American Water Works Association; Water Environment Federation			
19. RELEVANT PROJECTS			
	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
a.	Manatee County Southeast Water Reclamation Facility RAS/WAS Pump Station Improvements (Bradenton, FL)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Project Engineer. The SEWRF RAS/WAS project involved refurbishment of the facility's RAS and WAS pump stations and replacement of the scum ejectors for each of the four clarifiers.		
b.	City of Dunedin Reverse Osmosis Water Treatment Plant Refurbishment (Dunedin, FL)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Design Engineer. \$28M Design-Build project consists of an extensive piloting program including media filtration, polymeric UF, ceramic UF and RO systems followed by equipment refurbishment and various process changes at the 9 MGD brackish water plant.		
c.	Hillsborough County Valrico AWTP Energy Use Optimization and Alternative Energy Generation (Valrico, FL)	PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If Applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Project Engineer. This project included a detailed energy audit and alternative energy feasibility assessment for the 12.0 MGD capacity wastewater plant which includes headworks, clarifiers, media filters, UV disinfection, effluent pumping, reclaimed distribution pumping and various ancillary systems throughout the plant.		
d.	Tampa Bay Water Tampa Bay Desalination Facility Energy Audit (Apollo Beach, FL)	PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If Applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Project Engineer. Responsibilities included review of the plant's current power utility rate structure, development of an energy baseline tool of all of the Facility's energy consuming equipment and business case evaluations to support recommended energy optimization strategies.		
e.	Mount Pleasant Waterworks Rifle Range Road Wastewater Treatment Plant Rehabilitation and Expansion (Mount Pleasant, SC)	PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If Applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Design Engineer. CMAR project consisted of expanding the existing 6.0 MGD conventional activated sludge facility to 8.0 MGD and various unit process upgrades including new influent force main and pumping station, headworks, receiving station, aeration and equalization basins, dewatering building, disinfection facility and various ancillary systems.		

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME Diego Labarca, EI		13. ROLE Category 2. Utility Conflict/Relocations		14. YEARS EXPERIENCE	
				a. TOTAL 1	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION <i>(City and State)</i> Black & Veatch Corporation (Tampa, FL)					
16. EDUCATION <i>(Degree and Specialization)</i> BS, Civil Engineering			17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> E – FL, 74954		
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>					

19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		Tampa Bay Water Desalination Facility Expansion Feasibility Study (Tampa, FL)	PROFESSIONAL SERVICES Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer. This feasibility study aims to address Tampa Bay Water’s water supply capacity needs through 2040 through a comprehensive feasibility study for their 28.7 MGD Desalination Facility.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	City of Venice Water Treatment Plant Second Stage RO Process Upgrade (Venice, FL)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer. The Venice Water Treatment Plant (WTP) Second Stage RO Addition project supports treatment process and related improvements to increase the recovery of the plant to 75%. Participating in the field activities related to the operations of the RO Pilot System including sampling, equipment installation/replacement, and on-site troubleshooting.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Manatee County Master Lift Station 27-A, 39-A, and Lakewood Ranch Improvements (Manatee County, FL)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer. Improvements include replacement and installation of new mechanical and electrical equipment such as piping and fittings, generators, MCCs, VFDs, and building modifications along with site civil improvements to three master lift stations around Manatee County.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Tampa Bay Water Eldridge-Wilde Wellfield Rehabilitation Project (Hillsborough/Pinellas County, FL)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer. Project involved the rehabilitation of 24 wells with new pumps, motors, discharge piping, well houses and site civil improvements between two counties.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	City of Clearwater UV UT Absorbance Data Statistical Analysis Study (Clearwater, FL)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer. Part of the City’s effort to replace sodium hypochlorite by UV disinfection at their three facilities: East Facility, Marshall Street Facility and Northeast facility. Responsible for obtaining relevant information/ data during site visits pertaining the disinfection systems in place, , performing a statistical analysis of the UV absorbance data that showed the patterns at the three facilities, and developing the report.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME Casey Marika, EI	13. ROLE Category 3. Water & Wastewater Hydraulic Modeling	14. YEARS EXPERIENCE a. TOTAL 3 b. WITH CURRENT FIRM 3	
15. FIRM NAME AND LOCATION <i>(City and State)</i> Black & Veatch Corporation (Tampa, FL)			
16. EDUCATION <i>(Degree and Specialization)</i> BS, Civil/Environmental Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> EI – FL	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION <i>(City and State)</i> Pinellas County Water Master Plan (Clearwater, FL)	(2) YEAR COMPLETED PROFESSIONAL SERVICES Ongoing CONSTRUCTION <i>(If Applicable)</i> N/A	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Hydraulic Modeler. Black & Veatch was selected to update the County’s master plan for the system, including its source waters and pumping, distribution, and treatment facilities.		
	(1) TITLE AND LOCATION <i>(City and State)</i> City of Plant City Wastewater Master Plan (Plant City, FL)		
b.	(2) YEAR COMPLETED PROFESSIONAL SERVICES Ongoing CONSTRUCTION <i>(If Applicable)</i> N/A		(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Engineer. Plant City’s Utilities Department collection system services a population of approximately 38,000 people. The goal and objective of the Wastewater Master Plan is to assist City staff in providing a reliable and robust system with adequate capacity to accommodate future growth within the City’s sewer service area.
	(1) TITLE AND LOCATION <i>(City and State)</i> Lee County Wastewater Master Plan (Lee County, FL)		
	(2) YEAR COMPLETED PROFESSIONAL SERVICES Ongoing CONSTRUCTION <i>(If Applicable)</i> N/A		(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Hydraulic Modeler. Lee County’s Utilities Department collection system services a population of approximately 250,000 people. The goal and objective of the Wastewater Master Plan (Project) is to assist County staff in providing a reliable and robust system with adequate capacity to accommodate future growth within the City’s sewer service area.
c.	(1) TITLE AND LOCATION <i>(City and State)</i> Pinellas County Water and Sewer Optimization Program (Pinellas County, FL)		
	(2) YEAR COMPLETED PROFESSIONAL SERVICES Ongoing CONSTRUCTION <i>(If Applicable)</i> N/A		(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Engineer. Black & Veatch serves as Pinellas County’s Water & Sewer Optimization Program Consultant under a 5-year contract. Under this contract, Black & Veatch has worked closely with County Staff to implement “quick-hit” optimization improvements and define long-term sustainable solutions for its water and sewer facilities and systems
	(1) TITLE AND LOCATION <i>(City and State)</i> Tampa Bay Water As Needed Consulting Services (Tampa, FL)		
d.	(2) YEAR COMPLETED PROFESSIONAL SERVICES Ongoing CONSTRUCTION <i>(If Applicable)</i> N/A		(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Hydraulic Modeler. Black & Veatch has performed a number of task orders as part of this Continuing Services Contract. One current project under this Contract is a lift station/forcemain system evaluation for the Desalination Plant.
	(1) TITLE AND LOCATION <i>(City and State)</i> Tampa Bay Water As Needed Consulting Services (Tampa, FL)		
	(2) YEAR COMPLETED PROFESSIONAL SERVICES Ongoing CONSTRUCTION <i>(If Applicable)</i> N/A		(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Hydraulic Modeler. Black & Veatch has performed a number of task orders as part of this Continuing Services Contract. One current project under this Contract is a lift station/forcemain system evaluation for the Desalination Plant.
e.	(1) TITLE AND LOCATION <i>(City and State)</i> Tampa Bay Water As Needed Consulting Services (Tampa, FL)		
	(2) YEAR COMPLETED PROFESSIONAL SERVICES Ongoing CONSTRUCTION <i>(If Applicable)</i> N/A		(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Hydraulic Modeler. Black & Veatch has performed a number of task orders as part of this Continuing Services Contract. One current project under this Contract is a lift station/forcemain system evaluation for the Desalination Plant.
	(1) TITLE AND LOCATION <i>(City and State)</i> Tampa Bay Water As Needed Consulting Services (Tampa, FL)		

KEY PERSONNEL

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME Ed Rectenwald, PG, PMP	13. ROLE Category 3. Hydrogeology	14. YEARS EXPERIENCE	
		a. TOTAL 25	b. WITH CURRENT FIRM 2

15. FIRM NAME AND LOCATION *(City and State)*
Black & Veatch Corporation (Fort Myers, FL)

16. EDUCATION <i>(Degree and Specialization)</i> MS/MSc, Geology; BSc, Geology	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> PG – FL
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
 Groundwater Professional, American Water Works Association

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
a. Miami Dade WASD Hydrogeological and Engineering Services for Production, ASR Wells Disposal, Storage, and Monitoring Well Networks (Miami, FL)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Technical Lead. Hydrogeologic/geologic services and consultation related to WASD’s Wellfields, Injection Wells, and ASR Wells, which includes geochemical studies, groundwater modeling, monitoring, testing, permitting, design, specialized hydrogeologic oversight during construction and other services as needed.		
b. City of Cape Coral Comprehensive Water Resources Program (Cape Coral, FL)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Technical Lead. Hydrogeologic consulting, supply well siting and permitting, injection well siting, design and permitting, ASR operational permitting, stormwater management, information management, and bidding and construction services for the City of Cape Coral.		
c. Miami Dade WASD Performance Testing and Cycle Testing of ASR Systems at the West Wellfield and Southwest Wellfield (Miami, FL)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Technical Lead. Hydrogeologic/geologic services and consultation related to conduct downhole geophysical analysis and turbine pump replacements for 10 MGD Southwest and 15 MGD West wellfields ASR Systems.		
d. Greensboro County Aquifer Storage and Recovery Feasibility Study (Greensboro County, NC)	PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If Applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Technical Lead. Prepared an aquifer storage and recovery evaluation that included well siting, hydrogeological investigation, permitting, design, and planning level capital an operational cost for implementing and ASR System at the Townsend Water Treatment Plant.		
e. Miami Dade WASD Water Quality Criteria Exemption Request to Initiate Operational Testing of the Southwest and West Wellfields ASR Systems (Miami, FL)	PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If Applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Technical Lead. Hydrogeologic/geologic services and consultation related to the water quality criteria exemption request and operational testing of WASD’s 15 MGD Southwest and 15 MGD West wellfields ASR Systems.		

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME		13. ROLE		14. YEARS EXPERIENCE	
Robert Chambers, MBA		Category 3. Funding & Rate Studies		a. TOTAL	b. WITH CURRENT FIRM
				16	15
15. FIRM NAME AND LOCATION <i>(City and State)</i>					
Black & Veatch Corporation (Coral Springs, FL)					
16. EDUCATION <i>(Degree and Specialization)</i>			17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>		
Master of Business Administration; BS; BA, Finance			N/A		
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED		
	City of Tampa Tampa Potable Water System Master Plan (Tampa, FL)		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>	
		2019	N/A		
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm			
Assessment Project Manager. Black & Veatch assisted the City staff to develop an updated Potable Water System Master Plan, which has included Capital Improvement Program planning support; documented the Master Plan; and trained City Staff on the continued use and updating of the planning tools.					
b.	(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED		
	Tampa Bay Water System Engineer (Hillsborough, Pinellas and Pasco County, FL)		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>	
		2017	N/A		
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm			
Assessment Project Manager. Black & Veatch has been involved in an extensive regional water supply program, which has included management of a \$1.4 billion capital improvement program. Black & Veatch has provided numerous planning, financial, engineering and construction management.					
c.	(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED		
	City of Venice Water & Wastewater Rate Study (Venice, FL)		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>	
		2010	N/A		
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm			
Project Manager. The City of Venice required a comprehensive financial and rate analysis to determine its ability to meet the annual utility system obligations.					
d.	(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED		
	Miami-Dade Water and Sewer Department Cost Allocation Study (Miami, FL)		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>	
		2009	N/A		
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm			
Assessment Project Manager. Miami-Dade Water and Sewer Department required a common cost allocation assessment to assess their common cost allocation procedures related to regional and local water and wastewater functions. The cost allocation assessment was performed utilizing the principles established in the Federal Office of Management and Budget Circular A-87.					
e.	(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED		
	Broward County Water & Wastewater Rate Structure Review (Broward County, FL)		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>	
		2009	N/A		
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm			
Independent Reviewer. Performed an independent review of the assumptions and philosophical drivers that were taken into consideration prior to developing the County's existing rates and developed specific simulations of water and wastewater revenues.					

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME Nicholas Wyatt, EI	13. ROLE Category 3. GIS Specialist	14. YEARS EXPERIENCE	
		a. TOTAL 2	b. WITH CURRENT FIRM 1

15. FIRM NAME AND LOCATION *(City and State)*
Black & Veatch Corporation (Tampa, FL)

16. EDUCATION <i>(Degree and Specialization)</i> BS, Geological Engineering	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> EI – MO
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
City of Delray Beach Florida Cityworks Implementation -- Phase 2 (Delray Beach, FL)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Technical Support. Delray Beach’s Cityworks Implementation Phase II includes the implementation of the Public Works department. Tasks included in the project are assistance with data migration for Public Works, Cityworks configuration, reporting, end-user training and go-live support.	<input checked="" type="checkbox"/> Check if project performed with current firm	
City of Hollywood Florida Cityworks Implementation (Hollywood, FL)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Technical Support. Assisting with the implementation of the City’s CMMS for Utilities. Implementation focused on the migration from the City’s legacy system for linear and facility assets.	<input checked="" type="checkbox"/> Check if project performed with current firm	
City of Glendale Arizona EAMS Implementation (Glendale, AZ)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Technical Support. Currently providing implementation services for the selected EAMS software, Lucity. Implementation services include work processes development and Lucity configuration. Currently providing technical support for the management and distribution of this collected field data.	<input checked="" type="checkbox"/> Check if project performed with current firm	
City of Fallbrook Cityworks Implementation (Fallbrook, CA)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Technical Support. Assisting with the implementation of the city’s CMMS for Utilities. Created Cityworks 3D workorder templates to be utilized as a standardized implementation tool. Created Cityworks 3D asset hierarchy and database schema to serve as efficient starting point in hierarchy design for implementation.	<input checked="" type="checkbox"/> Check if project performed with current firm	
Polk County Water Reclamation Facility Condition Assessment (Polk County, FL)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Technical Support. As part of a comprehensive asset management program, B&V collected asset inventory data and condition information from these facilities for use in a Computerized Maintenance Management System (CMMS). Provided key insight and recommendations for Survey123 design to maximize efficiency and accuracy in the field.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME		13. ROLE		14. YEARS EXPERIENCE	
Sam Miller, EIT		Category 3. Consumptive Use Permit		a. TOTAL 5	b. WITH CURRENT FIRM 3
15. FIRM NAME AND LOCATION <i>(City and State)</i>					
Black & Veatch Corporation (Orlando, FL)					
16. EDUCATION <i>(Degree and Specialization)</i>			17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>		
MEng, Energy System Engineering; BS, Environmental Engineering			EIT – PA		
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED		
	City of Fort Myers Lime Residuals Removal and Disposal (Fort Myers, FL)		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
Project Engineer. Worked with Black & Veatch RPR and environmental specialist to developed data collection system. Responsibilities included data collection & organization, and weekly report generation.					
b.	(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED		
	Town of Mt. Pleasant Rifle Range Road Wastewater Treatment Plant Expansion (Mount Pleasant, SC)		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
Civil Engineer. Assisted in site land development including: Grading, erosion control, stormwater, road design, and site coordination.					
c.	(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED		
	Miami-Dade Water and Sewer Department Lime Residuals Disposal - FDEP ERP Permitting and WASD Modeling Support (Miami, FL)		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
Project Engineer. Responsibilities include permitting and Stormwater modeling utilizing XP SWMM. Other responsibilities included research into the hydrogeology of the area to establish a design exfiltration rate and utilizing ArcMap to generate contour information to determine if additional freeboard is required.					
d.	(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED		
	Orange County Utilities South Water Reclamation Facility Phase V Improvements (Orlando, FL)		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
Construction Administration. Served as point of contact for submittals, RFIs, Change Orders, and general correspondence with the contractor and client including running the monthly construction meetings.					
e.	(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED		
	Miami-Dade Water and Sewer Department South District Wastewater Treatment Plant – Electrical Distribution Building 3 (Miami, FL)		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
Civil Engineer. Responsibilities include site development including: Grading, Erosion Control, ADA compliance, temporary grading, sludge drying bed restoration, and ductbank plan and profile routing and coordination.					

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME David Garcia, EIT	13. ROLE Category 4. Electrical Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 9	b. WITH CURRENT FIRM 1

15. FIRM NAME AND LOCATION <i>(City and State)</i> Black & Veatch Corporation (Coral Springs, FL)

16. EDUCATION <i>(Degree and Specialization)</i> BS, Electrical Engineering	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> EIT – FL
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18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Member of American Water Works Association

19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>
	City of Venice Water Treatment Plant Switchgear Replacement; Venice Beach, FL	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Lead Electrical Design Engineer. Replacement of the switchgear and one engine generator at the water treatment plant in Venice Beach. The project includes evaluating the current switchgear capacity, the plant’s current and future demand, and designing a new switchgear to meet the plant’s future demand.		
	City of Venice Water Treatment Plant Switchgear Replacement; Venice Beach, FL	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Lead Electrical Design Engineer. Addition of a new water booster pump station for the City of Venice. The city requested a backup operation building with full SCADA connection and control of their water and wastewater treatment plants and a standby generator for the water booster pump and operations building		
	U.S. Army Corps of Engineers Dissolved Oxygen Facility O&M Manual; Savannah, GA	2020	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Electrical Engineer. Participated in the development of an overarching O&M manual for a dissolved oxygen facility in the Savannah River. The O&M manual was developed by gathering comprehensive data about the facility’s installed products, operations and SCADA systems.		
	MDWASD Preston Water Treatment Plant Switchgear Replacement; Miami, FL	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Lead Electrical Engineer. Design engineer for the Preston WTP Switchgear Replacement project. Unique challenges to this project include extreme size and access constraints. The use of gas-insulated switchgear is being consider to accommodate the small space available.		
	Gwinnet County Department of Water Resources SCADA Policies and Procedures; Gwinnet County, GA	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Electrical Engineer. Participated in the development of SCADA security policies and procedures for the Gwinnet County Department of Water Resources (GCDWR). The policies and procedures were developed following the NIST800-53 and AWWA standards.		

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME Larry Brouillette, PE	13. ROLE Category 4. I&C Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 33	b. WITH CURRENT FIRM 11
15. FIRM NAME AND LOCATION <i>(City and State)</i> Black & Veatch Corporation (Orlando, FL)			
16. EDUCATION <i>(Degree and Specialization)</i> BS, Electrical Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> PE – FL, VA	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Member of International Society of Automation; Water Environmental Federation			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
City of St. Petersburg Engineering Services for Potable Water, Wastewater, and Reclaimed Water Projects (St. Petersburg, FL)		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
I&C Engineer. Black & Veatch has completed dozens of projects for the City of St. Petersburg under the City's contract for Miscellaneous Professional Services for Potable Water, Wastewater, and Reclaimed Water projects dating back to the early 1990s.			
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
City of Lakeland Continuing Contract and Agreement for General Municipal Engineering Services (Lakeland, FL)		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
I&C Engineer. Black & Veatch provides engineering services in a broad range of engineering fields related to the City's water, wastewater, and reclaimed water systems. Services are provided on an as-needed basis through individual work assignments.			
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
City of Fort Myers WTP Engineer of Record (Fort Myers, FL)		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
I&C Engineer. Black & Veatch performed an array of services to support facility improvements and delivery of high-quality potable water service to customers. Assignments included evaluating the City's brackish water supply wellfield and assisted the City with short and long-term options to increase water supply through their RO plant; geophysical logging of existing wells to identify opportunities to increase short term water supply by rehabilitating existing wells; and design and construction oversight of rehabilitative work on two water supply wells.			
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
Tampa Bay Water System Engineer (Hillsborough, Pinellas and Pasco County, FL)		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
Electrical Engineer. Black & Veatch has been involved in an extensive regional water supply program, which has included management of a \$1.4 billion capital improvement program.			
(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
City of Hollywood Energy Efficiency Master Plan (Hollywood, FL)		PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If Applicable)</i> N/A
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
I&C Engineer. Performed field evaluations of the SCADA system for the City of Hollywood's WTP and SRWWTP, as part of a comprehensive Energy Efficiency Master Plan performed by Black & Veatch.			

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME Laurie Kusmaul	13. ROLE Category 4.Systems Integration	14. YEARS EXPERIENCE	
		a. TOTAL 15	b. WITH CURRENT FIRM 2

15. FIRM NAME AND LOCATION *(City and State)*
Black & Veatch Corporation (Coral Springs, FL)

16. EDUCATION <i>(Degree and Specialization)</i> MBA, Management Information Systems, Databases; BS, Business Information Systems, IT & Networks	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> N/A
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
 American Water Works Association - Florida Chapter; International Society of Automation

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
Pinellas County Water and Sewer Optimization Program (Clearwater, FL)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm a. Cyber Security Lead. Black & Veatch serves as Pinellas County’s Water & Sewer Optimization Program Consultant under a 5-year contract. Under this contract, Black & Veatch has worked closely with County Staff to implement “quick-hit” optimization improvements and define long-term sustainable solutions for its water and sewer facilities and systems. The primary objectives of the Program include: reducing energy consumption; reducing O&M costs; process optimization; technology improvements; triple bottom line sustainability of the facilities and systems.		
City of Gilbert Santan Vista Water Treatment Plant Expansion & SCADA Upgrade (Gilbert, AZ)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm b. SCADA Programmer. Santan Vista WTP initial capacity is 24 million gallons per day (MGD); 12 MGD for Gilbert and 12 MGD for Chandler. The plant treats the water using ballasted flocculation and an average process time is 20-25 minutes. The onsite reservoir capacity is 6 million gallons. Gilbert will soon begin construction to expand the Santan Vista Water Treatment Plant, to an ultimate capacity of 48 MGD, with planned improvements taking place on the existing site. The SCADA software and hardware must be modified to accommodate new process equipment. Also, the users will be upgrading to Schneider Wonderware System Platform 2014 R2 and to a dual monitor configuration with 4k resolution.		
Pinellas County Phase I - Radio to Cellular Modem Upgrades for Lift Stations (Pinellas County, FL)	PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If Applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm c. Project Manager & SCADA Engineer. Phase I of the overall upgrade of the County’s SCADA system included removing analog trunked radios form 360+ lift stations and replacing and configuring cellular modems (RedLion RAM series). Startup services and training were provided for preliminary sites. Required some updates to the Wonderware InTouch application and configuration changes in the Motorola RTUs.		
City of Deerfield Beach Wastewater Lift Station SCADA Upgrades (Deerfield Beach, FL)	PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If Applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm d. Project & Implementation Engineer. Designed SCADA network, assisted Utility with upgrading pump station hardware (Xylem MultiSmart), radio configuration training and assistance (CalAmp UHF), Trihedral VTSCADA application creation, training, and support.		

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME		13. ROLE		14. YEARS EXPERIENCE	
Larry Pittman, PE		Category 4. Generators		a. TOTAL 41	b. WITH CURRENT FIRM 41
15. FIRM NAME AND LOCATION <i>(City and State)</i>					
Black & Veatch Corporation (Kansas City, MO)					
16. EDUCATION <i>(Degree and Specialization)</i>			17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>		
BS, Mechanical Engineering			PE – KS		
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>					
Member of American Society of Mechanical Engineers					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED		
	Beaver Water District Diesel Fuel Unit Design (Lowell, AK)		PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If Applicable)</i> N/A	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
	Senior Mechanical Engineer. Responsible for the design of two 2,000 kW continuous rated diesel fueled units for standby and peak shaving applications. Units suitable for Tier IV emission requirements and were located in walk-in type sound attenuated enclosures with associated sub-base fuel storage tanks.				
b.	(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED		
	El Paso Water Utilities Generator Design (El Paso, TX)		PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If Applicable)</i> N/A	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
	Senior Mechanical Engineer. Responsible for the design of 60 engine-generators ranging in capacities from 20 kW to 2,000 kW for standby power, with associated sub-base type fuel storage tanks located inside weather proof enclosures.				
c.	(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED		
	Water District No. 1 of Johnson County Wolcott Water Treatment Plant (Johnson County, KS)		PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If Applicable)</i> N/A	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
	Senior Mechanical Engineer. Designed three 2,000 kW natural gas fueled engine-generators to provide power for standby and load curtailment applications.				
d.	(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED		
	Milwaukee Water Works Riverside Backup Power Generation (Wisconsin)		PROFESSIONAL SERVICES 2011	CONSTRUCTION <i>(If Applicable)</i> N/A	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
	Senior Mechanical Engineer. Designed three 2,000 kW natural gas fueled engine-generators to provide power for standby and load curtailment applications.				

E. RESUMES OF KEY PERSONNEL FOR THIS CONTRACT *(Complete one section for each key person)*

12. NAME Ryan Binkley, PE	13. ROLE Category 4. ARC-FLASH Analysis	14. YEARS EXPERIENCE	
		a. TOTAL 12	b. WITH CURRENT FIRM 12

15. FIRM NAME AND LOCATION *(City and State)*
Black & Veatch Corporation (Kansas City, MO)

16. EDUCATION <i>(Degree and Specialization)</i> BS, Electrical Engineering	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> PE – MO, SD, NE
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Member of American Water Works Association

19. RELEVANT PROJECTS

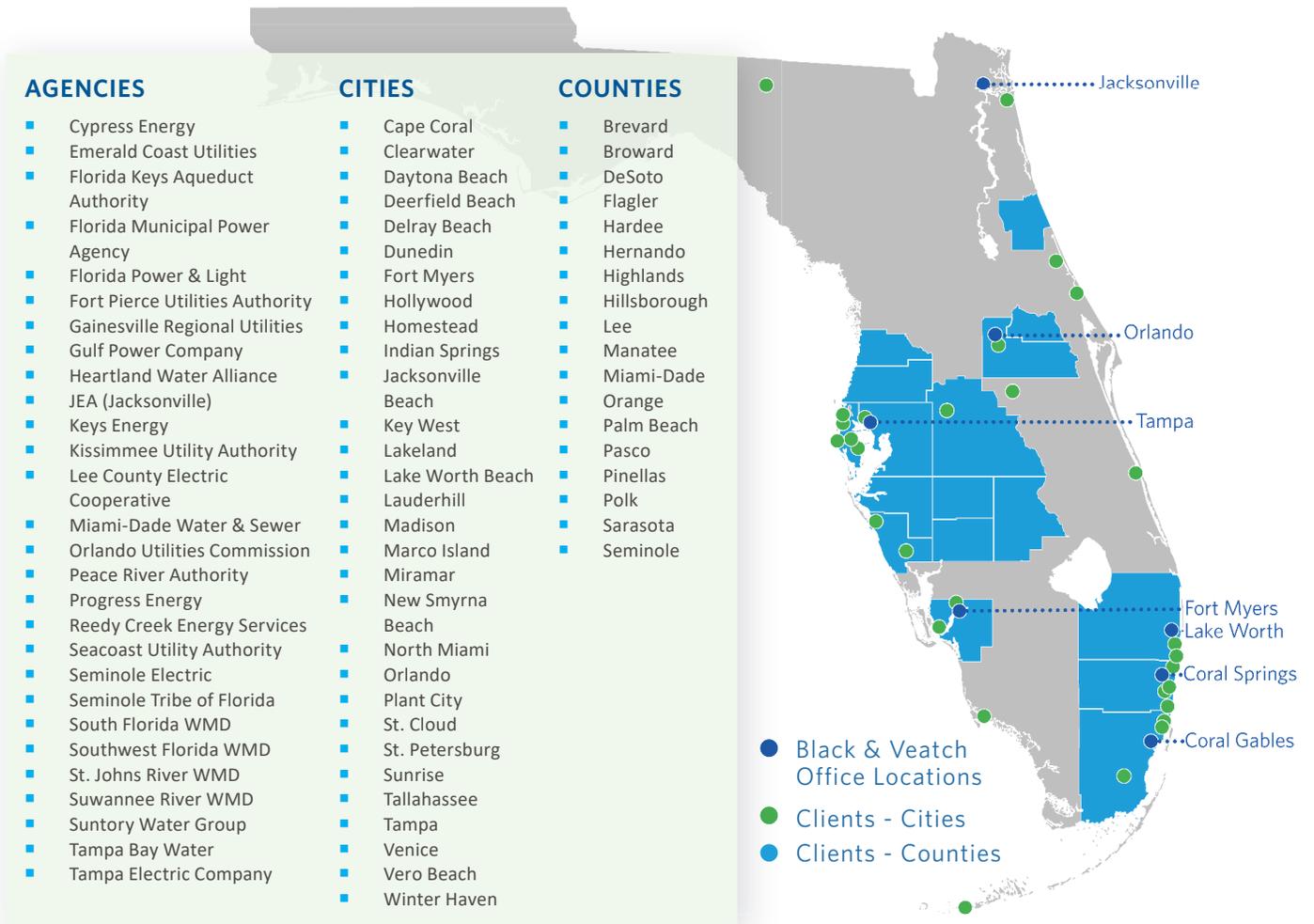
(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
Orange County Plant 1 & 2 Arc Flash Analysis (Fountain Valley, CA)	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If Applicable)</i> N/A
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Lead Electrical Engineer. In 2015 Black & Veatch began work on updating Orange County Sanitation District’s (OCSD) ETAP model to complete a complete coordination review and arc flash analysis study for Treatment Plants 1 and 2. OCSD’s Treatment Plants 1 and 2 process approximately 200 million gallons per day and have an extensive electrical system supporting the facilities.		
City of San Diego Short-Circuit, Coordination, and Arc Flash Study (San Diego, CA)	PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(If Applicable)</i> N/A
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Lead Electrical Design Engineer. The project scope included performing arc flash studies for 4 waste water treatment facilities, 7 pump stations, and 9 administration buildings within the City of San Diego’s Metropolitan Wastewater Department. Black & Veatch provided site investigations to document the entire electrical distribution system at each facility and generator a computer model for analysis. Analysis included short-circuit, protective device coordination and arc flash analysis.		
Duke Energy Hydroelectric Generation Facilities Arc Flash Study (East Coast)	PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(If Applicable)</i> N/A
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Lead Electrical Design Engineer. The project scope included performing arc flash studies for 16 Hydroelectric Generation facilities within the Duke Energy’s system. The project successfully met an aggressive schedule to meet quickly approaching OSHA regulation requirements. Duke was so pleased with Black & Veatch’s performance on the job that we were asked to provide follow up services to provide arc flash reduction recommendations for other facilities where the analysis was performed by other consulting firms.		
ReWa Pelham WRRF Arc Flash Study (Greenville, SC)	PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If Applicable)</i> N/A
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Lead Electrical Design Engineer. Scope included an arc flash study analysis in conformance with NFPA 70E and IEEE 1584 guidelines. The project included performing site verification of the existing electrical system and protective device settings at the Pelham Water Resource Recovery Facility, computer modeling and analysis of the system, a report documenting the results.		

Team’s Previous Experience/Proficiency in Similar Projects/Programs

Through our team of local and national experts, **the City of North Port will receive comprehensive and innovative long-term solutions for your water and wastewater system challenges that supports your ability to provide a high- level of service at a reasonable price to customers.** Black & Veatch prides ourselves as being an industry leader in client service, as evidenced by repeat business from many of our clients in Florida. We have become trusted advisors to many of Florida’s utilities, including the Cities of Fort Myers, Venice, Clearwater, Marco Island, St. Petersburg, and Tampa; Lee, Manatee, Pinellas, and Sarasota Counties; and Tampa Bay Water, Peace River, JEA (Jacksonville), and Florida’s water management districts.

EXTENSIVE FLORIDA EXPERIENCE

The Black & Veatch team offers unique depth and breadth of experience, successfully delivering services for water and wastewater treatment plant, pipeline, and pump station projects throughout Florida. We understand the needs of Florida utilities and have provided services for the following counties, municipalities and agencies.



RECENT CONTINUING CONTRACTS IN FLORIDA

CONTRACT

PROJECTS

ENGINEER OF RECORD FOR WATER TREATMENT PLANTS

City of Fort Myers, Florida
(2014 - Ongoing)

- Wellfield Assessment and Well Rehabilitation Services
- RO Treatment Plant Process Operations Evaluation
- RO Concentrate Disposal Well Permit Renewal
- Geophysical Logging of Wells
- East Water Storage Tank and Booster Pump Station
- Brackish Water Wellfield Expansion
- Lime Residuals Removal
- CO² System Replacement
- Neutralization System Improvements
- Chemical Bulk and Storage Tank Replacements

ENGINEERING SERVICES FOR POTABLE WATER, WASTEWATER AND RECLAIMED WATER PROJECTS

City of St. Petersburg, Florida
(1986 - Ongoing)

- Southwest WRF Emergency Backup Generator
- Northwest WRF Electrical Improvements - Design and Permitting
- Northwest WRF Medium/Low Voltage Switchboard SCADA Integration
- Oberly and Washington Terrace Pumping Station Improvements Design, Permitting, Construction
- Gulf-to-Bay Pumping Station Transformer Replacement Peer Review
- Water System Vulnerability Assessment and Emergency Operations Plan
- Water Reclamation Facility Disinfection Alternatives Study
- Water System Emergency Response Plan
- Southwest Water Reclamation Facility Master Plan
- Cosme WTP Electrical System Rehabilitation
- Oberly Pumping Station Construction Services
- Oberly Pumping Station 150-kVA Transformers
- Cosme WTP Electrical Switchgear Rehabilitation
- Sludge Handling and Disposal Study
- Water Supply Electrical Transformers Evaluation

SIMILAR PROJECT EXPERIENCE

CITY OF FORT MYERS ENGINEER OF RECORD FOR WATER TREATMENT PLANT

The City hired Black & Veatch to serve as their Engineer of Record to provide engineering consultation and assist with completion of capital projects associated with the PWS. We have developed a strong working relationship alongside City engineering and operations staff, so that we are always available and responsive to their needs. We have assisted the City with large challenges, such as major studies and design/construction projects and small issues, such as answering questions from staff or addressing concerns raised by citizens. A detailed description is in the SF 330 form, Project No. 1.



RECENT CONTINUING CONTRACTS IN FLORIDA

CONTRACT

SYSTEM ENGINEER

Tampa Bay Water, Florida
(1998 - 2017)

PROJECTS

- Brandon Urban Dispersed Wells
- Chloramine Implementation
- Tampa Bypass Canal Pump Station and Pipeline
- Alafia River Pump Station
- South-Central Hillsborough Intertie
- North-Central Hillsborough Intertie
- Tampa Bay Seawater Desalination
- Tampa Bay Regional Reservoir and Transmission Main
- Regional Facilities Site High Service Pumping, Storage & Groundwater Treatment Facility
- Brandon/South-Central Connection
- Regional Surface Water Treatment Plant
- Cosme Transmission Main
- Surface Water Treatment Plant Expansion
- High-Service Pump Station Expansion
- Offstream Reservoir Pump Station
- Tampa Bypass Canal PS Expansion
- SCHI Booster Pumping Station
- Cypress Creek Pump Station Expansion
- Northwest Hillsborough Pipeline

PROFESSIONAL ENGINEERING SERVICES FOR MISCELLANEOUS PROFESSIONAL ENGINEERING SERVICES

Hillsborough County, Florida
(1988- Ongoing)

- Dove Field Place Subdivision
- CPS Services for Watermain Extension
- Dale Mabry AWTP Screw Pump Replacement
- Armand Drive Gravity Sewer Replacement
- CPS Services
- PLC Programming Improvements
- Gunn Highway Utility Relocations
- Construction Inspection Services
- Pump Shop Building Rehabilitation at South County AWWTP
- Balm Riverview Road Force Main -Geotechnical Investigation
- Backflow Prevention/Cross-Connection Prevention Program Study
- Fawn Ridge WTP Drainage Improvements and Stormwater Permitting
- 36" Reclaimed Water Main Isolation Valve and Connection
- Sun City Mobile Home Park WTP Improvements
- Fawn Ridge WTP Chemical Storage/ Feed Facilities Expansion
- South County AWTP Reclaimed System SCADA Improvements
- Valrico AWTP UV Disinfection System Expansion and Upgrade
- Natures Way Wastewater PS Expansion
- Williams Rd Watermain Extension

RECENT CONTINUING CONTRACTS IN FLORIDA

CONTRACT

PROJECTS

ENGINEER OF RECORD

City of Venice
(2016 - Ongoing)

- Water Treatment Plan Switchgear Replacement and Engine Generator Addition
- Utility System Energy Optimization & Renewable Energy Study
- WTP Reverse Osmosis Treatment Process Study and Pilot Plant
- Potable Water System Master Plan Update

TREATMENT FACILITY IMPROVEMENTS

Peace River Manasota Regional Water Supply Authority
(2013 - 2016)

- 2 MG Pre-Stressed Concrete Ground Storage Tank
- Horizontal Split Case High Service Pumps
- Transfer Pumps
- Chemical Feed Improvements
- Plant and Process Piping Improvements,
- Electrical, I&C and SCADA System Upgrades

WASTEWATER TREATMENT PLANTS RELATED TO THE OCEAN OUTFALL LEGISLATION PROJECTS

Miami Dade County
(2017 - Ongoing)

- Design and Permitting of New Electrical Distribution No 3 (EDB 3) and Improvements to Existing Buildings (Project ST-2D)
- DWWTP OOL Improvements - Tertiary Filtration Pilot Test and Effluent Pump Station Evaluation

SIMILAR PROJECT EXPERIENCE



PINELLAS COUNTY WATER AND SEWER OPTIMIZATION

Black & Veatch serves as Pinellas County's Water & Sewer Optimization Program Consultant under a five-year contract. The primary objectives of the Program include: reducing energy consumption; process optimization; triple bottom line sustainability of the facilities and systems; reducing O&M costs; and technology improvements. A detailed description is in the SF 330 form, Project No. 2.



HILLSBOROUGH COUNTY SOUTH COUNTY BOOSTER PUMP STATION & WATER TRANSMISSION MAINS

Black & Veatch was retained by Hillsborough County to provide design and construction phase services for a new potable water transmission main in the South County service area to improve water quality and to facilitate future expansion of the distribution system in a growing area of Hillsborough County. A detailed description is in the SF 330 form, Project No. 5.

RECENT CONTINUING CONTRACTS IN FLORIDA

CONTRACT

PROJECTS

WATER AND SEWER OPTIMIZATION PROGRAM

Pinellas County, Florida
(2014 - Ongoing)

- South Cross Bayou WRF and Dunn WRF Optimization Studies
- South Cross Bayou WRF and Dunn WRF Facility Master Plans
- Biosolids Master Plan
- Water System Energy Efficiency Study
- SCADA Cyber Security Strategy Plan
- Dunn WRF Filter and Disinfection System Improvements Alternatives Evaluation

CONTINUING PROFESSIONAL SERVICES

Pasco County, Florida
(2012 - Ongoing)

- Embassy Hills WWTF Assessment; New Port Richey, FL
- Lacoochee Well Improvements Project; Dade City, FL

ENGINEERING SERVICES

City of Tampa, Florida
(2010 - Ongoing)

- HFCAWTP Methanol Storage Replacement Project
- American Water Infrastructure Act (AWIA) Risk and Resilience Assessment
- Screening and Grit Removal Facility Improvements
- Water Loss Audit

SIMILAR PROJECT EXPERIENCE



CITY OF TAMPA POTABLE WATER SYSTEM MASTER PLAN

Black & Veatch assisted the City staff to develop an updated Potable Water System Master Plan. Black & Veatch performed the following tasks as part of this project: updated and calibrated the existing hydraulic model; distribution system analysis for the existing system and planning years 2020, 2025 and 2035; pumping and storage facility assessments; resiliency and reliability assessments; and asset management program development. A detailed description is in the SF 330 form, Project No. 6.



HILLSBOROUGH COUNTY PROFESSIONAL ENGINEERING SERVICES

Black & Veatch is providing services to Hillsborough County on an as-needed basis to support projects related to the County's potable water, wastewater, and reclaimed water facilities. These projects involve a wide range of infrastructure types and include a wide range of services such as studies, master planning, preliminary and detailed design, permitting, bidding services, construction administration, and construction inspection. A detailed description is in the SF 330 form, Project No. 10.

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each Project.)*

20. EXAMPLE PROJECT KEY NUMBER
1

21. TITLE AND LOCATION (City and State) Engineer of Record for Water Treatment Plant (Fort Myers, FL) <i>Category 1: Water, Wastewater, and Reclaimed Water Treatment & Storage Systems</i>		22. YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If Applicable) N/A
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER City of Fort Myers, Florida	b. POINT OF CONTACT NAME Richard Moulton, Public Works Director	c. POINT OF CONTACT TELEPHONE NUMBER 239-321-7216	

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

The City of Fort Myers owns, operates and maintains a Public Water System (PWS) to provide potable water for approximately 80,000 City residents. The PWS consists of a raw water supply wellfield with 19 production wells located in the Lower Hawthorn/Upper Floridan Aquifer, a reverse osmosis (RO) water treatment plant (WTP) with a capacity of 12 MGD, and a potable water distribution system with over 24,000 metered service connections, 2 in-system storage tanks and one in-system pump station.

Black & Veatch has developed a strong working relationship alongside City engineering and operations staff, so that we are always available and responsive to their needs. We have assisted the City with large challenges, such as major studies and design/construction projects and small issues, such as answering questions from staff or addressing concerns raised by citizens. The following are some of the tasks performed under this contract.

FWMD Water Use Permit Renewal/Modification for Production Wells | The Eastwood wellfield has 18 production wells located in the Lower Hawthorn/Upper Floridan Aquifer. These production wells are the current water supply for the RO WTP. The City received a 20-year Water Use Permit (WUP) from the South Florida Water Management District (FWMD) in 2000. The WUP is now set to expire and the City requested that Black & Veatch renew the permit and modify it to increase its water allocation because of future growth. Water demand projections and resulting increase in water use allocation was determined as the first step in the WUP effort. This led to development of a wellfield expansion plan for the



City that is the road map for developing and preserving this vital brackish groundwater supply.

Lime Residuals Environmental Site Assessment and Removal | The City previously owned and operated a lime softening WTP. In the 1960s, lime residuals from the lime softening process were hauled and deposited in a borrow pit on former agricultural land. Over the years, a residential neighborhood grew up around the former lime residuals lagoon. When the City tested the lime residuals in 2017, it was found to contain arsenic levels about the residential soil cleanup target level (SCTL) of 2.1 mg/Kg for arsenic. Black & Veatch provided project management and oversight of an environmental site assessment to determine the vertical and horizontal extent of the lime residuals on the site and concentrations of arsenic. Black & Veatch also provide project management & construction inspection oversight for the complete removal of all lime residuals from the site.

24. FIRMS FROM SECTION C INVOLVED WITH THE PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Black & Veatch Corporation	Fort Myers & Tampa, FL	Prime

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each Project.)*

20. EXAMPLE PROJECT KEY NUMBER
2

21. TITLE AND LOCATION (City and State) Water and Sewer Optimization Program (Pinellas County, FL) <i>Category 1: Water, Wastewater, and Reclaimed Water Treatment & Storage Systems</i>		22. YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If Applicable) N/A
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER Pinellas County, Florida	b. POINT OF CONTACT NAME Diana Smilova, Design Manager	c. POINT OF CONTACT TELEPHONE NUMBER 727-893-4165	

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Pinellas County initiated a Water and Sewer Optimization Program that involves a holistic review of the efficiencies of its facilities and systems (over \$3 billion in assets that make up its water, sewer, and reclaimed water systems), and leverages the “Envision™ Sustainability Rating System,” which is an in-depth guidance and rating system designed to assess and improve the sustainability of existing and proposed future infrastructure.

Black & Veatch serves as Pinellas County’s Water & Sewer Optimization Program Consultant under a five-year contract. The primary objectives of the Program include: reducing energy consumption; process optimization; triple bottom line sustainability of the facilities and systems; reducing O&M costs; and technology improvements.

Examples of projects performed under this contract include:

South Cross Bayou WRF and Dunn WRF Optimization Studies | Variety of assessments at the SCB and Dunn WRFs to address current issues and identify improvements to optimize the performance of the existing plant processes. The tasks completed as part of this optimization study included: on-site operations and O&M assessments; addressing specific areas of concern



identified by the County; development of a wastewater process model (in GPS-X Pro software); and evaluation and recommendation of improvements and O&M modifications to optimize plant performance.

South Cross Bayou WRF and Dunn WRF Facility Master Plans | The Master Plans will provide the County with an organized and prioritized plan for implementing recommended improvements to address optimization goals and R&R needs over a 20-year planning horizon.

24. FIRMS FROM SECTION C INVOLVED WITH THE PROJECT			
a.	(1) FIRM NAME Black & Veatch Corporation	(2) FIRM LOCATION (City and State) Fort Myers & Tampa, FL	(3) ROLE Prime

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each Project.)*

20. EXAMPLE PROJECT KEY NUMBER
3

21. TITLE AND LOCATION (City and State) Engineer of Record (Venice, FL) <i>Category 1: Water, Wastewater, and Reclaimed Water Treatment & Storage Systems</i>		22. YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If Applicable) N/A
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER City of Venice, Florida	b. POINT OF CONTACT NAME Javier Vargas, Public Utilities Director	c. POINT OF CONTACT TELEPHONE NUMBER 941-882-7309	

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Engineer of Record Contract: Black & Veatch has been providing miscellaneous water, wastewater and reclaimed water services to the City of Venice under the Engineer-of-Record contract since 2016. Black & Veatch has successfully completed several projects under individual Work Assignments as part of this Contract, including the following examples:

- **Water Treatment Plan Switchgear Replacement and Engine Generator Addition:** Study, design, permitting, bidding and construction phase services for the replacement of the WTP switchgear with a new and improved switchgear. Black & Veatch developed a construction phasing plan to keep the WTP online throughout construction. This project also included the addition of a second generator to improve redundancy at the plant.
- **Utility System Energy Optimization & Renewable Energy Study:** Study of the water and wastewater treatment plants to identify energy saving opportunities through operational, schedule and treatment process optimization. Performed a feasibility review of solar plant opportunities.
- **WTP Reverse Osmosis Treatment Process Study and Pilot Plant:** Study to determine the best opportunity to increase the plant recovery from 50% to 75%. Project includes the setup and operation of a Reverse Osmosis (RO) Pilot Plant used to simulate the current plant with the addition of a second stage to the RO



process. Black & Veatch evaluated performance improvements, including evaluating recovery, under different operational scenarios and developed recommendations.

- **Potable Water System Master Plan Update:** Modeling, hydraulic analysis and study to update the potable water distribution system master plan. The Master Plan includes a review of current conditions and projections to 2045.

24. FIRMS FROM SECTION C INVOLVED WITH THE PROJECT

a.	(1) FIRM NAME Black & Veatch Corporation	(2) FIRM LOCATION (City and State) Fort Myers & Tampa, FL	(3) ROLE Prime
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each Project.)

20. EXAMPLE PROJECT KEY NUMBER

4

21. TITLE AND LOCATION (City and State) Fiesta Village WRF Reuse Main Upgrade & Deep Injection Well and Fort Myers Beach WRF Deep Injection Well #2 (Fort Myers, FL) <i>Category 2: Water, Wastewater, and Reclaimed Water Conveyance Systems</i>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If Applicable) N/A

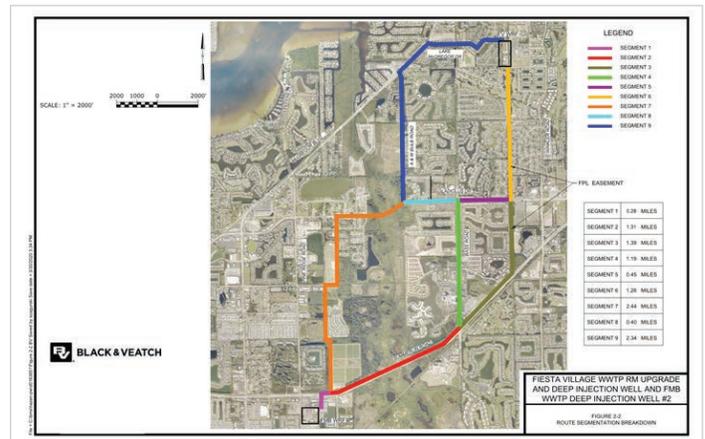
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Lee County Utilities, Florida	b. POINT OF CONTACT NAME Nathan Beals, Manager	c. POINT OF CONTACT TELEPHONE NUMBER 239-533-8157

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Black & Veatch was hired in September 2019 to perform preliminary design, detailed design, permitting, bid-phase, and construction administration services for a bi-directional reclaimed water (RCW) transmission main interconnect between the LCU Fiesta Village WWTP and the Fort Myers Beach WWTP.

The RCW transmission main PDR was completed in July 2020, and involved a pipeline route study of approximately 5 miles of proposed 24" RCW transmission main improvements through the heart of these relatively built-out RCW service areas.

The route study considered four pipeline route alternatives and nine proposed pipeline segments that were evaluated and ranked according to the following criteria: Easement Acquisition, Cost, Permitting, Traffic Impacts, Critical Crossings, and Proximity to RCW Users. The recommended route will primarily be along the congested Summerlin Boulevard ROW and then through an FPL easement. Survey and geotechnical data collection and easement acquisition assistance is in progress.



24. FIRMS FROM SECTION C INVOLVED WITH THE PROJECT			
a.	(1) FIRM NAME Black & Veatch Corporation	(2) FIRM LOCATION (City and State) Fort Myers & Tampa, FL	(3) ROLE Prime

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each Project.)*

20. EXAMPLE PROJECT KEY NUMBER
5

21. TITLE AND LOCATION (City and State) South County Booster PS to 19th Avenue Water Transmission Main (Tampa, FL) <i>Category 2: Water, Wastewater, and Reclaimed Water Conveyance Systems</i>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION (if Applicable) N/A

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Hillsborough County, FL	b. POINT OF CONTACT NAME Bob Tisdale, Section Manager	c. POINT OF CONTACT TELEPHONE NUMBER 813-612-7756

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Hillsborough County Public Utilities Department (PUD) hired Black & Veatch to provide design and construction phase services for a new potable water transmission main in the South County service area to improve water quality and to facilitate future expansion of the distribution system in a growing area of Hillsborough County.

Prior to the new transmission main, water was pumped into the ground storage tank at the South County Potable Water Repump Station through a single 24-inch diameter transmission main to the south of the facility. This same main was used to supply water from the repump station into the distribution system, which caused water quality issues. To address these issues – and to enable the County to better serve future development in the growing southern portion of the service area – another water transmission main was installed. The addition allows for the storage tank at the repump station to be filled from either direction, as well as allows for increased flow to the west of Interstate 75.

The project connected the South County potable water storage tank to a connection on 19th Avenue to provide water to the growing area. The pipeline includes approximately 6,850 linear feet of 30-inch DIP potable water pipeline, and 2,100 linear feet of 16-inch DIP potable water pipeline. The waterline was installed via open cut except for a 1,100-foot section of 16-inch pipe. This section was placed within a 48-inch casing and installed via micro-tunnel underneath I-75. The micro-



tunnel portion of the project consisted of a 49-inch bore machine with a 48-inch casing, installed over a two-week period with 24-hour Black & Veatch onsite observation.

The project also included permitting for:

- Florida Department of Transportation (FDOT)
- Florida Department of Health (FDOH)
- Hillsborough County Public Utilities Department
- Hillsborough County ROW
- Environmental Permitting through Florida Department of Environmental Protection (FDEP) and U.S. Army Corps of Engineers (USACE)

24. FIRMS FROM SECTION C INVOLVED WITH THE PROJECT			
a.	(1) FIRM NAME Black & Veatch Corporation	(2) FIRM LOCATION (City and State) Tampa, FL	(3) ROLE Prime

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each Project.)*

20. EXAMPLE PROJECT KEY NUMBER
6

21. TITLE AND LOCATION (City and State) Tampa Potable Water System Master Plan (Tampa, FL) <i>Category 3 - Water, Wastewater, and Reclaimed Water Planning</i>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION (If Applicable) N/A

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER City of Tampa, Florida	b. POINT OF CONTACT NAME Brian Pickard, Chief Planning Engineer	c. POINT OF CONTACT TELEPHONE NUMBER 813-274-3282

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

The City of Tampa provides water service to more than 590,000 people in Tampa, Florida, at an average day demand of 70 MGD. The water distribution system is supplied from a surface water supply and treatment facility (Hillsborough River and the D.L. Tippin WTP) and through interconnections with Tampa Bay Water, which is a regional wholesale water supply authority in the area. The distribution system has 1 primary pressure zone and includes 6 storage tanks, 5 repump stations, and more than 2,400 miles of water main.

The Potable Water System Master Plan project involved many traditional system planning elements, including: water demand projections, hydraulic model update and calibration (using Innowyze’s InfoWater software), hydraulic capacity evaluation, capital improvements program (CIP) development, and preparation of a master plan report. However, the project also included some unique and innovative planning approaches and tools to provide the City with a comprehensive and adaptable master plan. This included:

- Non-Revenue water (NRW) investigations to support accurate distribution of NRW demands throughout the distribution system.
- Kernelized consumption and NRW demand allocation figures to illustrate the demand concentrations and future growth patterns.
- Development of multiple levels of system performance criteria based on industry benchmarks and state/local regulations that are used to assess system adequacy and determine system improvement needs and priorities.



- Resiliency and reliability assessments including identification of critical infrastructure, asset failure analyses, and defining improvements to increase system resiliency.
- Water quality assessments and iterative improvement planning to minimize water quality/age impacts that can be associated with hydraulic capacity driven improvements.
- Asset Management Program Framework Development, including a gap assessment based on ISO 55000 standards and developing an Asset Management Program Implementation Roadmap Plan.
- Risk Based Prioritization for Pipeline R&R needs using Innowyze’s InfoMaster software.
- Training classes for City Staff to support the continued use and updating of the planning tools and softwares used as part of the Master Plan development. This included hydraulic and water quality modeling, and the InfoMaster software used for risk-based prioritization and CIP planning for pipeline R&R improvements.

24. FIRMS FROM SECTION C INVOLVED WITH THE PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Black & Veatch Corporation	Tampa, FL	Prime

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each Project.)*

20. EXAMPLE PROJECT KEY NUMBER

7

21. TITLE AND LOCATION (City and State) Wastewater System Master Plan (Lee County, FL) <i>Category 3 - Water, Wastewater, and Reclaimed Water Planning</i>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION (If Applicable) N/A

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Lee County, Florida	b. POINT OF CONTACT NAME Nathan Beals, Manager	c. POINT OF CONTACT TELEPHONE NUMBER 239-533-8157

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Lee County's wastewater collection system provide service to over 250,000 people and consists of 5 wastewater treatment plants and covers a service area of approximately 180 square miles. The wastewater collection system is comprised of laterals, gravity sewers, manholes, roughly 900 pump stations, and force mains that convey wastewater from the point of origin to the wastewater treatment facilities. Lee County selected Black & Veatch to provide professional services to develop an updated Wastewater Master Plan on the pressurized portions of the County's collection system.



- The Wastewater Master Plan project involved many traditional system planning elements field data collection, design storm selection, including hydraulic model update (InfoWater) and calibration, demand projections, capacity evaluation, capital improvement program (CIP) development, and preparation of a master plan report. However, the project also included some unique and innovative planning approaches and tools to provide the County with a comprehensive and adaptable master plan. This included:
 - Demand allocation figures to illustrate the demand concentrations and future growth patterns
 - Updated hydraulic models of five separate regional wastewater service areas
 - Planning level opinion of probable project costs
 - Alternative improvements for various alternate operational schemes
 - CIP prioritization spreadsheets training using custom tutorials demonstrate how to use the spreadsheet, and how to maintain/ update the spreadsheet

24. FIRMS FROM SECTION C INVOLVED WITH THE PROJECT			
a.	(1) FIRM NAME Black & Veatch Corporation	(2) FIRM LOCATION (City and State) Tampa, FL	(3) ROLE Prime

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each Project.)*

20. EXAMPLE PROJECT KEY NUMBER
8

21. TITLE AND LOCATION (City and State) Wastewater Master Plan (Plant City, FL) <i>Category 3 - Water, Wastewater, and Reclaimed Water Planning</i>		22. YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If Applicable) N/A
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER City of Plant City, Florida	b. POINT OF CONTACT NAME Lynn Spivey, Utilities Director	c. POINT OF CONTACT TELEPHONE NUMBER 813-285-9959	

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

The City of Plant City is undertaking an important project to shape the future of the City's collection system to support the vision of Imagine 2040; "transforming the City's small-town charm into a vibrant city with a new urban vibe." To aid in this effort, the City contracted Black & Veatch to develop a 25-year wastewater master plan.

The Wastewater Master Plan project involved many traditional system planning elements field data collection, updated GIS geodatabase/ shapefiles, design storm selection, including hydraulic model update (Infoworks ICM) and calibration, demand projections, capacity evaluation, capital improvement program (CIP) development, and preparation of a master plan report. However, the project also included some unique and innovative planning approaches and tools to provide the City with a comprehensive and adaptable master plan. This included:

- Demand allocation figures to illustrate the demand concentrations and future growth patterns.
- Planning level opinion of probable project costs
- Software Selection for the client
- Alternative improvements for various alternate operational schemes
- R&R CIP Development on Risk of failure using Plant City's existing Infomaster model build.



- Hydraulic model and risk models training on how to use the models and update the information for new development
- Design storm simulation to help the system avoid sanitary sewer overflows. Design storms were based on a rainfall design storms using NOAA Atlas 14 rainfall totals distributed using the Florida-modified SCS Type II storm distribution.
- CIP prioritization spreadsheets training using custom tutorials demonstrate how to use the spreadsheet, and how to maintain/ update the spreadsheet

24. FIRMS FROM SECTION C INVOLVED WITH THE PROJECT

a.	(1) FIRM NAME Black & Veatch Corporation	(2) FIRM LOCATION (City and State) Tampa, FL	(3) ROLE Prime
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each Project.)*

20. EXAMPLE PROJECT KEY NUMBER
9

21. TITLE AND LOCATION (City and State) Continuing Engineering Services Contract (St. Petersburg, FL) <i>Category 4: Electrical and Instrumentation/Controls</i>		22. YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If Applicable) N/A
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER City of St. Petersburg, FL	b. POINT OF CONTACT NAME David Abbaspour, Project Manager	c. POINT OF CONTACT TELEPHONE NUMBER 727-892-5382	

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Black & Veatch has completed dozens of projects for the City of St. Petersburg under the City's contract for Continuing Engineering Services for Potable Water, Wastewater, and Reclaimed Water projects. A significant number of these projects focused on electrical and instrumentation control improvements at each of the City's major water and wastewater treatment plants and pumping facilities. A sampling of relevant electrical and instrumentation control engineering related projects completed under this contract are provided below:

Northwest WRF Electrical Improvements

The City of St. Petersburg owns and operates the 20 mgd Northwest Water Reclamation Facility (NWWRF). The NWWRF was originally constructed in the 1950s and underwent a major expansion in the late 1970s. Most of the electrical infrastructure at the facility was in excess of 30 years old and reaching the end of its useful life.

Black & Veatch completed a study to prioritize the needed replacement of aging electrical infrastructure throughout the facility. Based on this Study, a first phase of priority improvements were identified as most critical to maintaining reliable operation of the NWWRF.

Black & Veatch then performed detailed design and permitting services to support the electrical system upgrade, which included:

- Replacement of 15kV switchgear as part of plant electrical distribution system. A new arc flash resistant switchgear was installed.
- Replacement of more than 12-unit substation transformers throughout the facility.



- Replacement of more than 15 motor control centers for major equipment throughout the facility.
- Installation of an extensive electrical duct bank and cabling to complete an electrical distribution loop for enhanced reliability.
- Related SCADA system improvements.
- Renovation of three existing building to provide air-conditioned environments for the protection of new electrical and I&C equipment.

Additional Relevant Assignments under this Contract

- Southwest WRF Electrical Distribution Infrastructure Replacement Design Project.
- Oberly & Washington Terrace Pumping Station Improvements – replacement of VFDs, switchgear, transformers, generators, pump motors, and SCADA system.
- Gulf-to-Bay Pumping Station Improvements.
- Southwest WRF Natural Gas Engine Generator and Electrical Design Project.
- Cosme WTP Electrical System Upgrade
- Southwest WRF Acoustical Modeling Study

24. FIRMS FROM SECTION C INVOLVED WITH THE PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Black & Veatch Corporation	Tampa, FL	Prime

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each Project.)*

20. EXAMPLE PROJECT KEY NUMBER

10

21. TITLE AND LOCATION (City and State)

Professional Engineering Services for Miscellaneous Water, Wastewater and Reclaimed Water Projects (Hillsborough County, FL)
Category 4: Electrical and Instrumentation/Controls

22. YEAR COMPLETED

PROFESSIONAL SERVICES

Ongoing

CONSTRUCTION (If Applicable)

N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

Hillsborough County, Florida

b. POINT OF CONTACT NAME

Bob Tisdale, Section Manager

c. POINT OF CONTACT TELEPHONE NUMBER

813-612-7756

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Black & Veatch provided engineering services to Hillsborough County under this contract with more than 35 individual assignments completed. Some of the electrical and instrumentation/controls projects performed under this contract are described below.

Countywide Pump Station Electrical Improvements

Black & Veatch provided services to Hillsborough County to implement electrical improvements at many of the County's pump stations to bring certain electrical components in compliance with the County standards. Improvements included replacement and relocation of the main electrical disconnect, utility metering, and improvements to facilitate the addition of pump station SCADA equipment. As part of this effort, Black & Veatch assisted the County with assembling a data-base of the County's pump station facilities to assist with identifying and tracking the improvements implemented at each pump station.

Lake Park and Fawn Ridge Water Treatment Plants – Energy Use and Energy Efficiency Improvements

Black & Veatch provided professional engineering services that included conceptual planning, design, and implementation support for adding real-time energy use and efficiency monitoring at the County's Lake Park WTP and Fawn Ridge WTP facilities. This included design for installing new power meters with electrical and communication wires and conduit, and support for the programming and integration work to generate displays of energy use and efficiency data on the operator screens



at the Fawn Ridge and Lake Park WTPs. The additional screens include power meter/energy use data, pump station wire-to-water efficiency calculator, on-peak and off-peak energy rate notification, billing demand alarms/notifications and combined energy usage (both facilities).

Additional Relevant Projects

Additional electrical / I&C projects performed under this contract include the following:

- Services to troubleshoot SCADA communications problems associated with the reclaimed water distribution system at the South County AWTP
- PLC programming improvements to upgrade the operation of the Falkenburg Reclaimed Water Pump Station
- Electrical support of Nature's Way Wastewater Pumping Station Expansion
- Electrical support of Hamilton Wastewater Pumping Station Rehabilitation

24. FIRMS FROM SECTION C INVOLVED WITH THE PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Black & Veatch Corporation	Fort Myers & Tampa, FL	Prime

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL <small>(From Section E, Block 12)</small>	27. ROLE IN THIS CONTRACT <small>(From Section E, Block 13)</small>	28. EXAMPLE PROJECTS LISTED IN SECTION F <small>(Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)</small>									
		1	2	3	4	5	6	7	8	9	10
Mark Martin, PE	Client Manager	X	X	X	X			X			
Steven King, PE	Project Manager	X	X	X		X				X	X
Andy Westfall, PE	Quality Control	X	X	X	X	X	X	X	X	X	X
Mike Tache, PE	Category 1 Technical Lead	X	X	X			X		X	X	
Mike McGee, PE	Category 2 Technical Lead	X		X	X	X	X	X		X	X
Amanda Schwerman, PE, ENV SP	Category 3 Technical Lead	X	X	X			X	X	X	X	X
Richard Taylor, PE	Category 4 Technical Lead	X	X	X						X	X
Lucas Botero, PE, BCEE, ENV SP	Wastewater Treatment		X	X							X
Arturo Burbano, PhD, PE	Water Treatment										
Jo Ann Jackson, PE	Direct & Indirect Potable Reuse										
Bobby Burchett, PE	Pump, Hydraulics, Surge		X				X				X
Ricardo Vieira, PE	Pipeline Assessments										
Nick Eckhardt, PE	Civil/Mechanical	X	X	X							X
Casey Marika	Hydraulic Modeling						X	X	X		
Ed Rectenwald, PG	Hydrogeology	X			X		X	X	X	X	X
Robert Chambers, MBA	Funding & Rate Studies						X	X	X		
David Garcia	Electrical Engineer										
Larry Brouillette, PE	I&C Engineer			X						X	X
Laurie Kusmaul	Systems Integration									X	X

29. EXAMPLE PROJECTS KEY

No.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	No.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Engineer of Record for Water Treatment Plant (Fort Myers, FL)	6	Tampa Potable Water System Master Plan (Tampa, FL)
2	Water and Sewer Optimization Program (Pinellas County, FL)	7	Wastewater System Master Plan (Lee County, FL)
3	Engineer of Record (Venice, FL)	8	Wastewater Master Plan (Plant City, FL)
4	Fiesta Village WRF Reuse Main Upgrade & Deep Injection Well and Fort Myers Beach WRF Deep Injection Well #2 (Lee County, FL)	9	Continuing Engineering Services Contract (St. Petersburg, FL)
5	South County Booster PS to 19th Avenue Water Transmission Main (Tampa, FL)	10	Professional Engineering Services for Miscellaneous Water, Wastewater and Reclaimed Water Projects (Hillsborough County, FL)

Management Approach/Project Control

The City will receive high-quality work products on schedule and budget by leveraging our team’s continuous focus on delivering excellence for all tasks assigned under this contract.

APPROACH TO COMPLETING PROJECT

Black & Veatch has a strong track record of providing quality professional services. We recognize that quality is a perpetual improvement process updated through a continuous feedback method to incorporate successful techniques and lessons learned from our project execution practices.

Effective project management and efficient project delivery are paramount to meeting schedule and budget. Our teams and standard project approach are structured to ensure that we do that successfully. In addition, we understand the engineering services we provide can positively influence the successful completion of projects on schedule and budget.

Black & Veatch has developed a management approach and project controls tools and procedures to support successful management of schedule and budget. Black & Veatch’s Quality Management System (QMS) is a company-wide documented system of planned processes and activities helps ensure effective planning and execution of our Quality Management Plan.

Our team also uses experience on related projects to provide excellent insight to the type of activities that require focused attention. By leveraging this experience, we will provide realistic time and budget estimates associated with this contract.



APPROACH TO TASK ORDER DEVELOPMENT

Black & Veatch recognizes the value of a solid upfront effort in the development of new task orders. Thorough coordination with the City’s Project Manager is essential to define a scope of services that will meet the City’s needs with respect to schedule, budget, and usefulness of project deliverables.

Our Project Manager will meet with City staff as necessary to clearly identify the goals of an effort, to develop a detailed project schedule, to stay within any budgetary constraints, and to define the specific deliverable requirements. All of these components will be incorporated into the scope of services for a given task order.

Steven King will then oversee the development of task orders proposals and will always submit a draft version to City’s Project Manager for review to ensure agreement with the scope, schedule, budget, and deliverable requirements. A schedule will be included in the scope of services in each new task order.

By request and depending on the level of detail and coordination needed, the schedule could be presented in Primavera P6 (or other format as preferred by the City) and would identify all major project milestones and significant phases of the effort.

PROJECT CONTROLS

The City of North Port will experience successful, quality projects as a result of Black & Veatch's complete library of state-of-the-art project controls tools. Our management approach includes the following:



Schedule Control: We will work with clients during the scope development phase of each assignment to establish a schedule that will meet their goals. When desirable, schedules can be developed using Primavera or Microsoft Project. We provide updated project schedules at project milestones and other times as determined to be beneficial.



Budget Control: Our project managers have access to an array of tools to facilitate tracking and management of project costs. For example, EcoSys is a newly-developed earned-value management-based system that enables the establishment of control accounts so that expenditures can be tracked and managed by both task and work group (such as engineering discipline).



Quality Control: Black & Veatch employs a strict QA/QC program in alignment with the key principals of ISO9000. QA/QC reviews will be conducted at key milestones, which support schedule and budget success through early identification of developing issues and avoiding rework.



Document Control: Black & Veatch utilizes the ProjectWise document management system which provides a secure environment for storage and retrieval of project drawings, specifications, reports, data, etc. Files can be accessed by any team member via their computer, whether working in the office, at home, or at a plant site. This system provides security, avoids document loss, and supports efficient production.



Construction Cost Control: Black & Veatch is a leading contractor in the water and wastewater industry, with half of the firm's project volume from design-build projects. The resulting expertise and available estimating tools and resources enable us to develop accurate construction cost estimates to support our clients' budget process. We utilize trend reporting to continually communicate updates on the construction estimate.



Constructability: Our experience as a contractor also provides the expertise and resources to develop sound designs that can be constructed efficiently from the perspective of both cost and schedule. By thoroughly addressing construction sequencing and maintenance of operations during design, we avoid costly change orders and delays during construction.

COMMITMENT AND HISTORY OF PROVIDING EXPEDITIOUS SERVICES

Black & Veatch will provide the City of North Port with responsive service to complete projects expeditiously under this contract. Our team will leverage the lessons learned through our local staff's experience delivering projects under similar Continuing Professional Services Contracts. Examples where we have successfully met aggressive project schedules when requested by our clients include the following.

City of Fort Myers | East Water Reclamation Facility Planning Phase and Rezoning | The necessary rezoning process, which can typically take years, was completed in 11 months.

City of Lakeland | Disinfection Facilities Upgrades Design Project | Black & Veatch met every schedule milestone for timely completion of preliminary design, detailed design, and bidding of this time sensitive project with public safety implications.

Hillsborough County | Northwest AWWTPs Odor Control and Noise Abatement Study | Black & Veatch performed an evaluation of needed odor control, noise abatement, and aesthetic improvements at three treatment plants. Field work and report development were completed within three weeks of notice-to-proceed in order to comply with regulatory requirements.

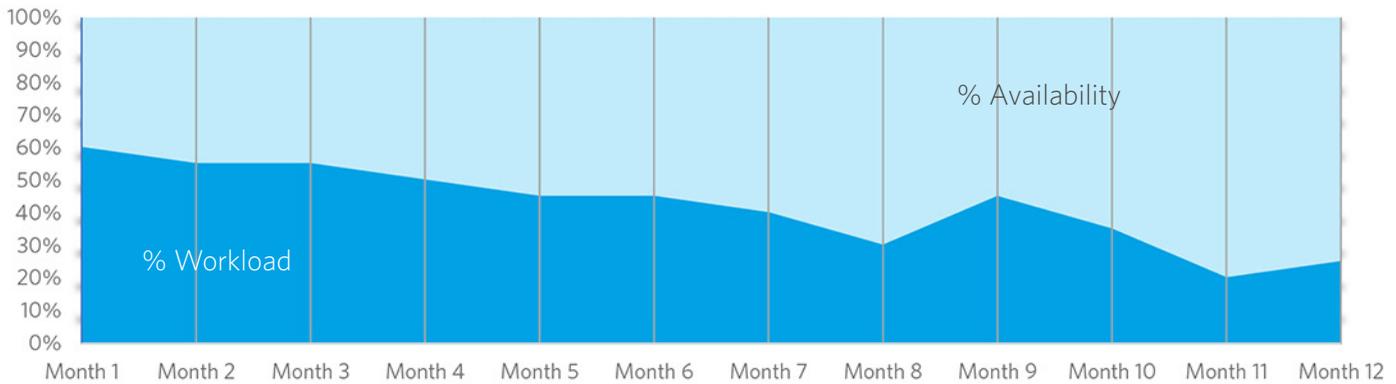
WORKLOAD

Our current workload forecast confirms that Black & Veatch has more than adequate staff availability to execute the scope of services that would result from this engineer of record contract. Black & Veatch is committed to providing the resources required to complete projects assigned under this contract within the required schedule.

We maintain (and update monthly) a database of current and upcoming projects, the specific professional resources

assigned to each, and the monthly time commitment of each professional assigned to each project. This database rolls up to a projected total month-by-month project commitment by each of our professionals. We evaluate the data monthly and make adjustments to upcoming assignments. This effort ensures that all projects under this contract will be staffed with project team members who have ample availability to perform the work within expectations.

Team's Current Commitment During the Next 12 Months



INNOVATIVE DESIGN AND TECHNOLOGY

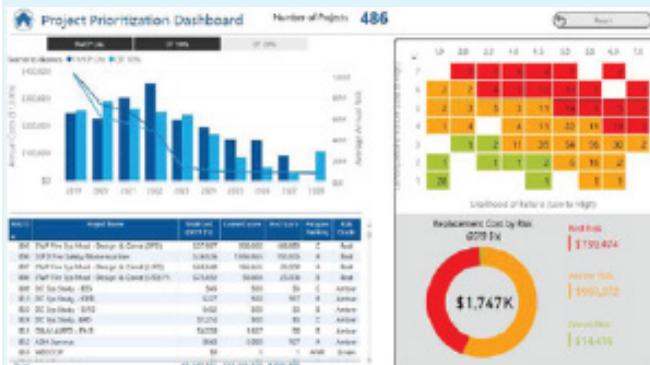
Black & Veatch has pioneered the use and development of numerous tools and technologies that will help the City maximize its investments. Below is a sample of some technologies and tools that Black & Veatch can leverage to support the execution and quality of projects.

Advanced Treatment Technologies/Potable Reuse

Black & Veatch has designed potable reuse systems from small scale demonstration plants to the largest and most innovative facilities in the world. Our work includes the world-renown Orange County, CA Groundwater Replenishment System, where we designed the initial and were reselected for the final expansion of the world's largest advanced water purification system.

Asset Management, CIP and Financial Planning Tools

Black & Veatch has developed a suite of capital prioritization approaches that can be tailored to the City's specific needs. The approaches range from straightforward spreadsheet models to detailed probabilistic cost/risk models.



CIP Optimization

This is an example of a CIP Optimization Module which allows for comparison of multiple CIP Optimization Scenarios based on different investment constraints to view impact on risk reduction over time.

With this dashboard, the City can examine and optimize the CIP based on overall system risk. This combines information from the hydraulic modeling capacity results, the R&R risk prioritization and vertical asset risk analysis.

QUALITY MANAGEMENT APPROACH

For all of the tasks assigned to Black & Veatch under this contract, our commitment will be to provide quality, on-time deliverables that can be counted on for consistency, constructability and ease of operation. Black & Veatch has a long history of providing high-quality professional services to our clients' satisfaction. We recognize that quality is a continuous improvement process updated through a constant feedback method to incorporate successful techniques and lessons learned from our project execution practices.

QUALITY MANAGEMENT SYSTEM

Black & Veatch's Quality Management System (QMS) is a company-wide documented system of planned processes and activities that ensures the effective operation, planning and control of our Quality Management program. Our QMS is based on ISO 9001:2008 Quality Management System-Requirements and addresses all elements of the standard as well as any project-specific codes, standards, contracts, drawings, and objectives. All Black & Veatch project managers are intimately familiar with Black & Veatch's QMS. **Our robust, ISO 9000-compliant QA/QC system incorporates lessons learned from projects completed over the past 100 years.**

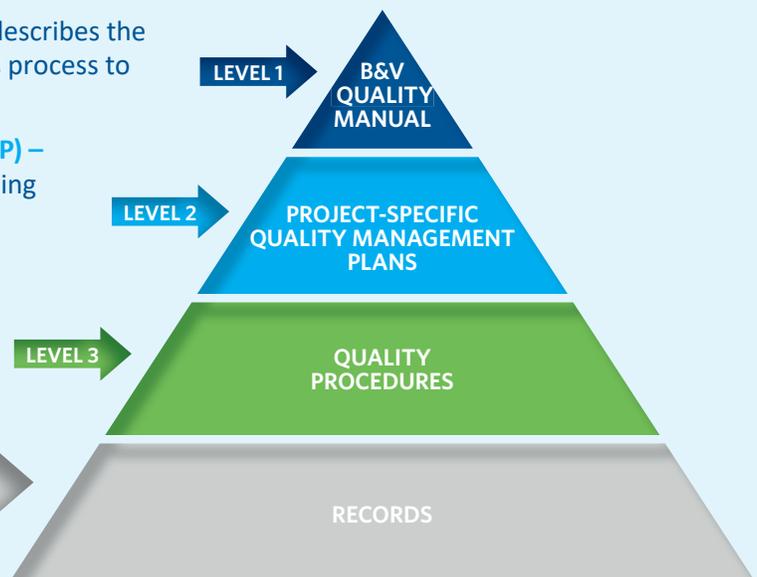
Our QMS governance, which will be applied to all projects, consist of four levels, which are illustrated below.

Black & Veatch is committed to providing quality-focused design engineering, construction and startup services.

- Assigning experienced team members that will remain throughout the duration of the project for consistency
- Effectively communicating with the team and with City staff to ensure our commitment to quality meets your expectations
- Following the City's Standards and Ordinances
- Following Black & Veatch's established design and quality control procedures
- Providing independent quality review and verification of the project deliverables
- Performing regular audits to ensure compliance with quality procedures
- Controlling project schedule and costs

BLACK & VEATCH'S QMS GOVERNANCE RESULTS IN HIGH-QUALITY PROJECTS

1. **Black & Veatch Quality Manual** – The manual describes the scope of the QMS and outlines Black & Veatch's process to develop high-quality work products.
2. **Project-Specific Quality Management Plan (QMP)** – The QMP will be tailored for each project, defining the quality processes applicable to our clients' unique project characteristics.
3. **Quality Procedures to Execute the QMS** – The Quality Manual includes quality procedures to execute the project-specific requirements.
4. **Records** – Black & Veatch retains all required project records documenting that both our clients' contractual and our QMS requirements were fulfilled.



References



Treatment Facility Improvements

PEACE RIVER MANASOTA REGIONAL WATER SUPPLY
AUTHORITY | FLORIDA

REFERENCE FOR: POTABLE WATER TREATMENT

YEAR COMPLETED
2016

COST
\$1.9M

CLIENT REFERENCE
Kevin Morris, PE, BCEE Science and
Technology Officer
(941) 316-1776
kmmorris@regionalwater.org

Black & Veatch provided engineering services to the Peace River Manasota Regional Water Supply Authority to support widespread improvements to the Peace River Facility Trains 1 and 2 with a treatment capacity of 12 mgd. The major improvements included:

- 2 MG Pre-Stressed Concrete Ground Storage Tank
- Horizontal Split Case High Service Pumps
- Transfer Pumps
- Chemical Feed Improvements
- Plant and Process Piping Improvements,
- Electrical, I&C and SCADA System Upgrades

Other notable facility improvements include:

- Overhauling the filters with new media, and backwash enhancements
- Structural repairs including new walkways, pipe supports, concrete design and repair, and equipment bases
- Replacing/upgrading alum, caustic, polymer, and powder activated carbon chemical feed systems
- Electrical and piping repair and replacement throughout the facility

The design was developed on a fast-track basis in order to initiate construction prior to the start of the dry weather season when the plant operational disruptions are more manageable.

Additionally, Black & Veatch provided construction phase services including full-time resident project representation (RPR). The Black & Veatch team led efforts to ensure compliance with design documentation and complete timely review of any RFIs and contractor questions.



RO WTP Recovery Pilot and Feasibility Study

CITY OF VENICE | VENICE, FL

REFERENCE FOR: POTABLE WATER TREATMENT

YEAR COMPLETED
2018

COST
\$335,000

CLIENT REFERENCE
Javier Vargas, PE
Public Utilities Director
(941) 882-7309
Jvargas@venicegov.com

Black & Veatch completed pilot system operation and a detailed feasibility study to determine the applicability of increasing the City's RO WTP recovery rate from 50% to 75%. Major project elements included:

- Technology evaluation for increasing the RO recovery
- Detailed review of the top four alternative options for increasing recovery
- Design, setup operating protocols and model recovery rates and chemical dosage for two pilot systems.
- Operation of a skid-mounted pilot plant that was designed to simulate the current plant operation and add a second RO stage to achieve 75% recovery
- Operation of a full-scale pilot with the City's help on one of the existing skids. The full-scale pilot was used to demonstrate the existing skids ability to operate at up to 60% recovery.
- Gather all the data from the two pilot plants, compile and analyze the data
- Model different long-term scenarios (different number of second stage units) for the City to review for the addition of the second stage RO systems.
- High level cost analysis of the different scenarios
- Review of physical space availability at the RO WTP
- Permitting (environmental) review of the different scenarios
- Modeling of the concentrate to determine mixing zone sizes and completed a disposal alternative review.
- Review of the existing emergency engine generator emission ratings
- Modeling of the existing emergency generator to determine sizing applicability to the existing WTP and future expanded WTP. Also completing a condition assessment on the physical condition of the existing generator

The final report included a detailed review and analysis of the data collected from the full-scale and pilot plants. The study showed that the existing plant was able to operate at up to 60% recovery with no modifications necessary. The pilot scale system showed that the system could be run at up to 75% recovery with the addition of second stage RO skids, pumping and piping.



Water and Sewer Optimization Program

PINELLAS COUNTY | FLORIDA

REFERENCE FOR: WASTEWATER TREATMENT

YEAR COMPLETED

Ongoing

COST

\$20M

CLIENT REFERENCE

Diana Smillova
Engineering Design Manager
(727) 893-4165
Diana.Smillova@stpete.org

Pinellas County initiated a Water and Sewer Optimization Program that involves a holistic review of the efficiencies of its facilities and systems (over \$3 billion in assets that make up its water, sewer, and reclaimed water systems), and leverages the “Envision™ Sustainability Rating System,” which is an in-depth guidance and rating system designed to assess and improve the sustainability of existing and proposed future infrastructure.

Black & Veatch serves as Pinellas County’s Water & Sewer Optimization Program Consultant under a five-year contract. The primary objectives of the Program include: reducing energy consumption; process optimization; triple bottom line sustainability of the facilities and systems; reducing O&M costs; and technology improvements.

Examples of projects performed under this contract include:

South Cross Bayou WRF and Dunn WRF Optimization Studies | Variety of assessments at the SCB and Dunn WRFs to address current issues and identify improvements to optimize the performance of the existing plant processes. The tasks completed as part of this optimization study included: on-site operations and O&M assessments; addressing specific areas of concern identified by the County; development of a wastewater process model (in GPS-X Pro software); and evaluation and recommendation of improvements and O&M modifications to optimize plant performance.

South Cross Bayou WRF and Dunn WRF Facility Master Plans | The Master Plans will provide the County with an organized and prioritized plan for implementing recommended improvements to address optimization goals and R&R needs over a 20-year planning horizon.



Embassy Hills WWTF Facility Assessment

PASCO COUNTY | LAND O' LAKES, FL

REFERENCE FOR:
WASTEWATER
TREATMENT

YEAR COMPLETED
2016

COST
\$90,000

CLIENT REFERENCE
Ibzan Ortiz, PE
Project Manager
(813) 235-6189 ext 6941
lortiz@pascocountyfl.com

The EHWWTf is a 3.5 mgd rated conventional activated sludge wastewater facility that was originally constructed in 1987. B&V completed a facility assessment to evaluate the plant operations and infrastructure, identify condition and remaining life of the equipment, and define improvements needed to maintain reliable operation of the plant over a 15-year horizon.

The assessments included a review of all major systems and equipment with specific focus on the influent pump station, influent mechanical screens, aeration system, secondary clarifiers, and traveling bridge filters. Process alternatives were developed and evaluated, and B&V worked closely with the County staff to define the recommended improvements. The project also included the development of facility-wide electrical and I&C improvements.

Resiliency & Energy Efficiency Evaluations | As part of the EHWWTf assessment, B&V evaluated options to improve plant resiliency and energy efficiency. Several alternatives were identified for improving the resiliency of the EHWWTf and its ability to better handle extreme wet-weather/high flow conditions. These proposed alternatives included general facility hardening, solids washout prevention improvements, increased filtration capacity, and increased reject storage capacity. B&V also identified an energy efficiency improvement concept for the EHWWTf aeration system that would provide an estimated \$100,000/year in energy cost savings and a payback period of less than 7 years.

Operations & Maintenance Cost Analysis | The EHWWTf assessment also included an evaluation of the current O&M practices and costs. This evaluation included a benchmark comparison against recognized national standards for facilities of similar size and complexity.

Design Phase Services | As part of a separate contract, B&V is supporting the County with Detailed Design Services. This includes supporting the County with identifying the most appropriate delivery method (CMAR approach selected).



South County Booster PS to 19th Avenue Water Transmission Main

HILLSBOROUGH COUNTY | TAMPA, FL

REFERENCE FOR: PIPELINE DESIGN

YEAR COMPLETED
2019

COST
\$5.4M

CLIENT REFERENCE

Bob Tisdale
Section Manager
Engineering Design
(813) 612-7756
TisdaleH@HillsboroughCounty.org

Hillsborough County Public Utilities Department (PUD) hired Black & Veatch to provide design and construction phase services for a new potable water transmission main in the South County service area to improve water quality and to facilitate future expansion of the distribution system in a growing area of Hillsborough County.

Prior to the new transmission main, water was pumped into the ground storage tank at the South County Potable Water Repump Station through a single 24-inch diameter transmission main to the south of the facility. This same main was used to supply water from the repump station into the distribution system, which caused water quality issues. To address these issues – and to enable the County to better serve future development in the growing southern portion of the service area – another water transmission main was installed. The addition allows for the storage tank at the repump station to be filled from either direction, as well as allows for increased flow to the west of Interstate 75.

The project connected the South County potable water storage tank to a connection on 19th Avenue to provide water to the growing area. The pipeline includes approximately 6,850 linear feet of 30-inch DIP potable water pipeline, and 2,100 linear feet of 16-inch DIP potable water pipeline. The waterline was installed via open cut except for a 1,100-foot section of 16-inch pipe. This section was placed within a 48-inch casing and installed via micro-tunnel underneath I-75. The micro-tunnel portion of the project consisted of a 49-inch bore machine with a 48-inch casing, installed over a two-week period with 24-hour Black & Veatch onsite observation.



SFWMD Water Use Permit/ Modification of Production Wells

CITY OF FORT MYERS | FORT MYERS, FL

REFERENCE FOR: HYDROGEOLOGY

YEAR COMPLETED
2018

COST
\$100,000

CLIENT REFERENCE
Richard Moulton
(239) 332-6801
RMoulton@cityftmyers.com

The Eastwood wellfield has 18 production wells located in the Lower Hawthorn/Upper Floridan Aquifer. These production wells are the current water supply for the RO WTP. The City received a 20-year Water Use Permit (WUP) from the South Florida Water Management District (SFWMD) in 2000. The WUP is now set to expire and the City requested that Black & Veatch renew the permit and modify it to increase its water allocation because of future growth. Water demand projections and resulting increase in water use allocation was determined as the first step in the WUP effort. This led to development of a wellfield expansion plan for the City that is the road map for developing and preserving this vital brackish groundwater supply.

The wellfield expansion plan includes the potential addition of 21 new production wells as well as the conversion of an existing ASR well into a production well over the next 20 years. In the past few years, the existing wellfield has experienced raw water quality degradation due to increased salinity which is suspected to be a result of the wells being constructed too deep in the aquifer and spaced too close together. Therefore this WUP effort by Black & Veatch included groundwater modeling and aquifer up-coning analyses that were performed to support this wellfield expansion and to protect this vital brackish water resource. As part of this effort Black & Veatch assisted the City in identifying locations for future wells and recommended a test well and new well construction sequencing program that will preserve and protect this natural resource while meeting its increasing water demands out to year 2040.

This WUP modification effort also included development of an action plan for the City that spells out some key additional water conservation elements that will be implemented by the City in the future to significantly improve their water conservation program.

Litigation and Insurance

Black & Veatch Corporation (“Black & Veatch”), together with its affiliates constitutes a large, international engineering and construction firm. Like similarly sized firms, at any given point in time, we may be involved with claims and litigation from time to time. Black & Veatch maintains a program of insurance to protect against claims arising out of its work.

In the opinion of Black & Veatch management, no pending claim or litigation will have a material impact on Black & Veatch’s ability to execute this project. After a reasonably diligent search of available records, to the best of Black & Veatch’s knowledge, the following is a listing of past or ongoing litigation involving Black & Veatch over the past five years:

Plaintiff	Case No.	Court	Claim Reason	Final Outcome
Emerald Utilities, A.C. Schultes	2014-CA-003670-0	Orange County Circuit Court, Florida	Third party complaint filed against B&V in litigation between site work contractor and well drilling contractor for damages allegedly sustained during discharge of well water	This matter settled with no contribution from B&V in 2016
North Texas Municipal Water District v. Black & Veatch Corporation	366-0250-2017	In the District Court of Collins County, TX	Litigation arising out of leaks in the filter gallery of the Wylie WWTP 4.	Litigation is pending
Kay and Tim Ball v. Black & Veatch Corp. et al.	19-CI-002241	Jefferson Circuit Court of Kentucky	Personal injury suit filed against B&V and others for negligently failed to install steps in a reasonable safe condition for invitees to use.	Litigation is pending
Black & Veatch Corp. v. Aspen Insurance (UK) Ltd. & Lloyd’s Syndicate 2003	12-2350-SAC	U.S. District Court for the District of Kansas.	Lawsuit by Black & Veatch against its insurers to recover costs incurred by Black & Veatch in remediating defects in the tanks and internals of jet bubbling reactors on several EPC projects.	Litigation is pending
Black & Veatch Corp. v. Strongwell Corp	4:12-CV-00119-BCW	U.S. District Court for the Western District of Missouri	Lawsuit by Black & Veatch against subcontractor on several EPC projects to recover costs incurred by B&V in remediating defects	This matter was resolved by a verdict in 2016
Rodriguez	1200863104	Circuit Court of 17 th Judicial Court for Broward County, FL	Personal injury litigation against B&V and others arising out of motorcycle accident, where plaintiff alleges that it struck a butterfly valve cover installed in a median as part of a transmission main project in Florida.	Summary judgment granted in favor of Black & Veatch in September 2015

Additional Information

WATER REUSE/RECLAMATION

Black & Veatch has long been at the forefront of water reuse/reclamation, well before regulations governing reuse began to develop. Our work in San Diego over three decades ago provided basic data for the development of California reuse standards, and today we are working with JEA in Jacksonville to permit and design a large scale water purification facility, working directly with FDEP to establish regulatory criteria in the absence of regulations for direct potable reuse in Florida.

Black & Veatch offers maximum value to clients with single-source depth and expertise in the full spectrum of water and wastewater reuse. From traditional urban and agricultural irrigation reuse systems to innovative wetland environmental enhancement projects and potable reuse, the right professionals for the job can be found at Black & Veatch.

Black & Veatch can address tasks related to optimizing or expanding wetland systems.

Central Florida REUSE Expert

Jo Ann Jackson, National One Water Practice Leader for Black & Veatch, is Central-Florida based in our Orlando office and has worked her entire 37-year career in Florida. Her experience includes planning and implementing traditional urban reuse programs and designing some of the state’s first and largest constructed wetland treatment systems for the cities of Orlando and Lakeland and Brevard County. She oversaw the state’s first pilot testing for direct potable reuse for the City of Altamonte Springs.



Jo Ann has been involved in technical advisory groups for significant Florida legislation on wetlands treatment, water reuse, and most recently, potable reuse, when she served as a member of the state’s Potable Reuse Commission to develop a regulatory framework for potable reuse giving her valuable understanding and ability to negotiate complex permitting issues with state regulators. She is ready to assist the City of North Port with all aspects of planning, managing, and permitting water reuse and reclamation projects.



Black & Veatch takes a “One Water” approach to water reuse planning with a sound understanding of the hydrologic cycle. More than that, we take into account environmental and public interest concerns. A One Water approach requires vision and, at the same time, calls for prudence, as economic realities can’t be ignored. As the effects of regional droughts become more prevalent, it requires close work with Florida’s water management districts and integrated water resources planning to develop sound plans that factor in resilience and cost-effectiveness.

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

THE CITY OF NORTH PORT’S UTILITY NEEDS ARE DIVERSE

Black & Veatch possesses the depth of expertise and capacity required to meet any need that may arise during the course of this contract. In addition to our world-class water, wastewater and reclaimed water qualifications, we offer in-house specialized services that provide additional value to the City.

While Black & Veatch is a global industry leader in the areas we serve, we deliver projects locally. Through Southwest Florida area professionals such as Client Manager Mark Martin and Project Manager Steven King, who have served our Florida municipal clients for more than two decades, the City will receive responsive service with readily available access to all the capabilities that Black & Veatch has to offer.

Our team’s extensive planning and design experience in Florida will translate to cost-saving solutions that optimize your facilities and operations. We are also a Florida-licensed contractor and will leverage our construction experience and local market knowledge to minimize risk and ultimately provide higher quality constructed facilities to the City.

We are consistently ranked by Engineering News-Record in the industry’s Top 10 in water, wastewater, and stormwater-related fields, as well as fossil fuels, power, and telecommunications. Our expertise and diversity will enable us to deliver innovative, holistic solutions to the County.



LEADER IN WATER INFRASTRUCTURE

100+ YEARS CREATING WATER INFRASTRUCTURE

ENR RANKINGS

#	CATEGORY
4	Top 500 in Water
11	Top 500 Design Firms
3	Top 25 in Sanitary & Storm Sewers
4	Top 10 in Hydro Plants
5	Top 20 in Water Treatment, Plants
5	Top 50 in Water Supply
5	Top 20 in Water Treatment, Desalination Plants
7	Top 500 in Sewer & Waste

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE

32. DATE

July 11, 2020

33. NAME AND TITLE

Rafeal E. Frias, PE, Associate Vice President

Submission Requirements and Required Submittal Forms

B. REQUIRED SUBMITTAL FORMS: City Required Submittal Forms/Checklist

READ/EXECUTED & INCLUDED

- Proposal Submittal Signature Form
- Statement of Organization
- References

- Drug-Free Workplace (If Applicable)
- Public Entity Crime Information
- Non-Collusive Affidavit

*REQUEST FOR PROPOSAL NO. 2020-58
PROFESSIONAL ENGINEERING SERVICES-CONTINUING SERVICES CONTRACTS FOR
CITY OF NORTH PORT UTILITIES DEPARTMENT*

- Lobbying Certification
- Conflict of Interest Form
- Disclosure Form (Consultant/Engineer/Architect)

- Scrutinized Business Certification Form

State Registration Requirements (<http://www.sunbiz.org/search.html>)

- Copy of Registration, Attached

- State required license for Prime Firm Only (Not sub-consultants)

- SAMPLE INSURANCE CERTIFICATE:** Demonstrate your firm's ability to comply with insurance requirements. Provide a previous certificate or other evidence listing the Insurance Companies names for both Professional Liability and General Liability and the dollar amounts of the coverage.

- YES NO Sample Insurance Certificate is included with the submittal

- MBE/WBE/VBE:** If claiming Minority Business Enterprise/Women Business Enterprise/Veterans Business Enterprise, the Prime Firm (not sub-consultant) **shall be** certified as a Minority Business Enterprise by the State of Florida, Department of Management Services, Office of Supplier Diversity pursuant to Section 287.0943, Florida Statutes.

- YES, CLAIMING MBE/WBE/VBE STATUS AS PRIME ONLY

- YES, I'VE ATTACHED THE CERTIFICATE OF MBE/WBE/VBE STATUS FROM THE STATE OF FLORIDA AS OUTLINED SECTION 12.

- NOT CLAIMING MBE/WBE/VBE

THIS PAGE MUST BE COMPLETED AND SUBMITTED WITH YOUR PROPOSAL

STATEMENT OF ORGANIZATION
(Information Sheet for Transactions and Conveyances Corporation Identification)

The following information will be provided to the City of North Port for incorporation in legal documents. It is, therefore, vital all information is accurate and complete. Please be certain all spelling, and capitalization is exactly as registered with the state or federal government.

Name of Respondent: Black & Veatch Corporation

DBA (if any): N/A

Type of Entity (Sole Proprietor, Corporation, LLC, LLP, Partnership, etc): Corporation

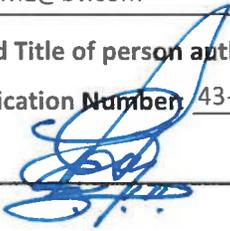
Business Address: 4415 Metro Parkway, Suite 200, Fort Myers, Florida 33916

Phone: 239-703-8294 Fax: N/A

E-Mail MartinME@bv.com

Print Name and Title of person authorized to bind: Rafael E. Frias III, PE, Associate Vice President

Federal Identification Number 43-1833073

Signature: 

Respondent shall submit proof that it is authorized to do business in the State of Florida unless registration is not required by law. Attached

(Please Check One)

Is this a Florida Corporation: Yes or No

If not a Florida Corporation,

In what state was it created: Delaware

Name as spelled in that State: Black & Veatch Corporation

What kind of corporation is it: "For Profit" or "Not for Profit"

Is it in good standing: Yes or No

Authorized to transact business
in Florida: Yes or No

State of Florida Department of State Certificate of Authority Document No.: F98000006965

Does it use a registered fictitious name: Yes or No

THIS PAGE MUST BE SUBMITTED WITH PROPOSAL

REQUEST FOR PROPOSAL NO. 2020-58
PROFESSIONAL ENGINEERING SERVICES-CONTINUING SERVICES CONTRACTS FOR
CITY OF NORTH PORT UTILITIES DEPARTMENT

Names of Officers:

President: Cindy L. Wallis-Lage **Secretary:** Timothy Triplett
Vice President: Brent Reuss **Treasurer:** Michael Williams
Director: Timothy Triplett **Director:** N/A
Other: See Attached **Other:** _____

Name of Corporation (As used in Florida):

Black & Veatch Corporation
(Spelled exactly as it is registered with the state or federal government)

Corporate Address:

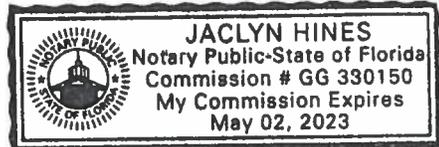
Post Office Box: N/A
City, State Zip: _____
Street Address: 11404 Lamar Avenue
City, State, Zip: Overland Park, Kansas 66211

STATE OF FLORIDA
COUNTY OF Broward

Sworn to (or affirmed) and subscribed before me by means of physical presence or online notarization, this 9th
day of July, 2020 by Rafael E. Frias II

Jaclyn Hines
Notary Public - State of Florida

Personally Known OR Produced Identification
Type of Identification Produced N/A



THIS PAGE MUST BE SUBMITTED WITH PROPOSAL

State of Florida

Department of State

I certify from the records of this office that BLACK & VEATCH CORPORATION is a Delaware corporation authorized to transact business in the State of Florida, qualified on December 22, 1998.

The document number of this corporation is F98000006965.

I further certify that said corporation has paid all fees due this office through December 31, 2020, that its most recent annual report/uniform business report was filed on April 20, 2020, and that its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Nineteenth day of May, 2020*



Samuel R. Bruce
Secretary of State

Tracking Number: 2226522981CU

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.

<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

Black & Veatch Corporation

DIRECTORS:

First Name	Middle Name	Last Name
Timothy	Wayne	Triplett

OFFICERS:

First Name	Middle Name	Last Name	Executive Status
Jason	P.	Abiecunas	Associate Vice President
Joe	R.	Aillet	Associate Vice President
David	Scott McDonald	Aitken	Vice President
Bruce	M.	Allender	Associate Vice President
Jay	A	Anders	Associate Vice President
Douglas	D	Anderson	Vice President
Ted	R.	Andry	Vice President
Carlos	E.	Araoz	Vice President
Ali		Assaf	Associate Vice President
Mario		Azar	President
Rick	E	Azer	Associate Vice President
Greg	T.	Bahora	Vice President
Brett	A.	Baker	Associate Vice President
Mike	J.	Baker	Associate Vice President
Shelby	B	Barbier	Senior Vice President
Tim		Bartlett	Vice President
Andrea	Colette	Bernica	Associate Vice President & Assistant Secretary
Georgeann	M.	Blair	Associate Vice President

Paul	M.	Boersma	Associate Vice President
Robert	S	Borst	Associate Vice President
William	R.	Breckenridge	Vice President
David	J.	Brill	Associate Vice President
Chad	Evin	Brown	Associate Vice President
Curtis	G.	Brown	Associate Vice President
Gregory	N	Brown	Senior Vice President
Brent	B.	Burger	Senior Vice President
James	D	Byrd	Senior Vice President
Luis	A.	Cabreriza	Vice President
Derek	L.	Cambridge	Associate Vice President
David	J.	Carlson	Vice President
Randal		Castro	Executive Vice President
Christina Cheryl		Chai	Vice President
Narsingh Parsuram		Chaudhary	Executive Vice President
Hoe Wai		Cheong	President – Oil & Gas
John	Maurice	Chevrette	President - MCD
Peter		Chiang	Associate Vice President
Allen	B.	Childress	Senior Vice President
Somasundaram		Chokalingam	Associate Vice President
Thomas	E.	Christensen	Vice President
James	H.	Clark	Senior Vice President
Larry	S.	Clark	Vice President
Barry	D.	Clegg	Vice President

Sara	A.	Cogan	Vice President
Jeffrey	Dale	Coggins	Associate Vice President
Peter	J	Cohlma	Vice President
Tiffany	A.	Coleman	Associate Vice President
Joseph	P.	Conradt	Associate Vice President
Eric	P.	Cosgrove	Vice President
Kenneth	E.	Culver	Vice President
Kevin	L.	Currence	Associate Vice President
James	DM	Currie	Associate Vice President
Spencer	L.	Davis	Associate Vice President
Kevin	N.	Davis	Vice President
David	A	Day	Associate Vice President
Derk		De Vries	Associate Vice President
Wesley	N	Denton	Vice President
Scott	J.	Dicks	Vice President
Justin	J.	Dickstein	Associate Vice President
Keith	R.	Didriksen	Associate Vice President
Christopher	D	Dierks	Vice President
Jennifer	M	Divito	Vice President
Rene	A.	Dominguez Argueta	Associate Vice President
James	D.	Doull	Executive Vice President
Christi	L	Driver	Vice President
Jun		Du	Associate Vice President
Mark	A.	Duckworth	Vice President

William	T.	Dudley	Vice President
Bruce	Gordon	Duff	Vice President
Donald	I.	Eddy	Associate Vice President
Steve	L.	Edwards	CEO
Ryan	J.	Elbert	Vice President
Fred	J.	Ellermeier	Vice President
Joshua		Ensell	Vice President
Zeynep	Kisoglu	Erdal	Associate Vice President
Oscar	Eduardo	Falcon	Senior Vice President
Stephen	T.	Fawcett	Associate Vice President
Jon	R.	Feickert	Associate Vice President
Russell	A.	Feingold	Vice President
John	W.	Felski	Vice President
Lisa	M.	Fewins	Associate Vice President
Eric	G.	Fife	Associate Vice President
Diane	M.	Fischer	Vice President
Rafael	E.	Frias	Associate Vice President
Glenda	L.	Friesen	Vice President
Mark	A.	Gake	Associate Vice President
Stephen	M.	Galdo	Associate Vice President
Eric	K.	Gaston	Vice President
Hyleme		George	Associate Vice President
John	W.	George	Vice President
Brett	A.	Gerhart	Associate Vice President

Stephen	M.	Gibbs	Senior Vice President
Donnie	H.	Ginn	Vice President
Michael	K.	Goff	Associate Vice President
Sean	M.	Goldwasser	Vice President
Rochman		Goswami	Vice President
Bently	C	Green	Associate Vice President
John	B.	Greer	Vice President
Brenda	M.	Greig	Vice President
Donnie	R.	Griffin	Associate Vice President
Thomas	R.	Guenther	Vice President
Jarrold		Guthrie	Associate Vice President
Dave	S.	Hallowell	Senior Vice President
Jacqueline	R.	Hansen	Associate Vice President
Bradley	Spencer	Hardin	Associate Vice President
Hiralal Ramji		Harji	Associate Vice President
Michael	M.	Harper	Associate Vice President
Kirk		Harris	Associate Vice President
David	Keith	Harris	Vice President
Gary	R.	Hattle	Vice President
Brady	F.	Hays	Vice President
Jeffrey	W.	Henson	Associate Vice President
Kevin	Thomas	Hinkle	Associate Vice President
Angela	Lungren	Hoffman	Senior Vice President
James	Edward	Hoier	Associate Vice President

Xiaoyong		Huang	Vice President
Roosevelt	R.	Huggins	Associate Vice President
Jesse	J.	Hull	Vice President
Robert	A.	Hulsey	Associate Vice President
Lisa	A.	Jackson	Associate Vice President
Richard	I.	Jacober	Senior Vice President
John	J.	Janchar	President - Telecom
Richard	J.	Janik	Associate Vice President
Joshua	S.	Johnson	Associate Vice President
Joy	Delaine	Johnson	Senior Vice President
John	H.	Johnson	Vice President
Robert	Allan	Joyce	Associate Vice President
James		Juras	Associate Vice President
Scott	D.	Kinner	Vice President
Brian	J.	Klausner	Associate Vice President
Jeremy		Klingel	Vice President
Paul	R.	Kneitz	Associate Vice President
Shuk Ching Christina		Ko	Associate Vice President
David	S.	Koch	Associate Vice President
Matt	J.	Koenigsdorf	Associate Vice President
Anthony		Koodie	Associate Vice President
Ronald	G.	Krage	Associate Vice President
Kent	R.	Kringen	Associate Vice President
Jeffrey	E.	Kurtz	Vice President

Yim		Kwok	Vice President
Kent	Allen	Lackey	Vice President
Joseph	A	Lauria	Vice President
Daniel	K	LeBlanc	Associate Vice President
David	A.	Leligdon	Senior Vice President
Arron	L.	Lewis	Vice President
Tengjie		Li	Associate Vice President
Craig		Lichty	Associate Vice President
Paul	J.	Lindsay	Associate Vice President
Aili		Liu	Associate Vice President
Peter	David	Loftspring	Senior Vice President & Assistant Secretary
Kevin	P.	Ludwig	Associate Vice President
Joseph	A.	Mahendran	Associate Vice President
John	W.	Marshall	Vice President
Gary	L	Martin	Associate Vice President
Curtis	J.	Martin	Associate Vice President
Lee	R.	Mather	Vice President
Francis	Declan	McCormack	Vice President
Patrick	T.	McHugh	Vice President
Patricia		McManus Corcoran	Vice President
Paul	A	McRoberts	Vice President
Jennifer	L.	Meegan	Senior Vice President
Jeff		Mehlin	Vice President
David	C.	Mendelsohn	Senior Vice President

Rajiv	Vasudevan	Menon	Vice President
Danny	W.	Meyer	Senior Vice President
Adrienne	L.	Mickells	Vice President
Paul	M.	Miller	Vice President
David	D.	Miller	Vice President
Charles	B.	Mitchell	Vice President
Steven		Mizerany	Associate Vice President
Christopher	G.	Mueller	Vice President
Jeff	J.	Neemann	Associate Vice President
Louis	E.	Nemeth	Associate Vice President
Faruk		Oksuz	Vice President
Patrick	A.	O'Neill	Associate Vice President
Michael	G.	Orth	Executive Vice President
David	J.	Parish	Vice President
Mitesh Arvindbhai		Patel	Associate Vice President
Anand	P	Pattani	Vice President
Andrea	M	Patterson	Associate Vice President
Patrick	J	Pelissero	Associate Vice President
Holly	Melissa	Perkins	Associate Vice President
Carl	F.	Petz	Associate Vice President
Ryan	J.	Pletka	Vice President
Marijan		Podrebarac	Associate Vice President
Deepa		Poduval	Associate Vice President
Frederick	M.	Poetter	Associate Vice President

Andrew	Stuart	Powell	Associate Vice President
David		Price	Associate Vice President
Danny	J	Quinn	Associate Vice President
John	S.	Rector	Associate Vice President
Walter	R	Reigner	Associate Vice President
Brent	M.	Reuss	Senior Vice President
Clinton	O.	Robinson	Associate Vice President
Scott	E.	Roesle	Associate Vice President
Jason	M.	Rowell	Associate Vice President
Dennis	R.	Schapker	Senior Vice President
James	H.	Schnieders	Executive Vice President
Jason	T.	Schottler	Vice President
Mark	E.	Schrimp	Vice President
Christopher	William	Scott	Vice President
Michael		Scrivens	Vice President
Siddhartha		Sengupta	Associate Vice President
Michael	J.	Serafin	Associate Vice President
Jennifer	E	Shafer	Associate Vice President
Andrew	R.	Shaw	Associate Vice President
Stuart	K.	Shaw	Vice President
A.	Dean	Siegrist	Associate Vice President
Jay	R.	Sigman	Associate Vice President
Keith	D.	Small	Associate Vice President
Ronald	W	Smith	Associate Vice President

Jeffrey		Smith	Vice President
Ngan		Song	Associate Vice President
James	A.	Spenceley	Senior Vice President
G.	Scott	Stallard	Vice President
Jeffrey	J.	Stamm	Senior Vice President
Michael	S.	Stark	Vice President
Mark	T.	Steichen	Associate Vice President
David	L.	Strawn	Associate Vice President
James		Strayer	Vice President
Javid	H.	Talib	Vice President
Eng Guan Eric		Tan	Associate Vice President
John	Michael	Tattersall	Vice President
Sean		Terrell	Vice President
Lisa	K.	Terry	Vice President
Brahmendra		Thakur	Associate Vice President
Matthew	Lee	Thomas	Associate Vice President
Drew	S	Thompson	Associate Vice President
Robert	Lee	Traister	Vice President
Martin	G.	Travers	President - Federal
Timothy	Wayne	Triplett	Secretary
Steve		Uhlmansiek	Associate Vice President
Michelle	R.	Usher	Associate Vice President
Laszlo		von Lazar	Executive Vice President
Thomas	G.	Wahl	Associate Vice President

Craig	E.	Wakeman	Associate Vice President
Cindy	L.	Wallis-Lage	President - Water
Suqing		Wang	Vice President
James	Matthew	Waters	Associate Vice President
Cathy	A.	Weber	Associate Vice President
William	J.	Wells	Associate Vice President
James	E.	Welp	Senior Vice President
Scott	D.	Wielage	Associate Vice President
Christopher	M.	Wilkinson	Associate Vice President
William	D	Williams	Associate Vice President
Kenneth	L	Williams	President & CFO
Michael		Williams	Senior Vice President & Treasurer
Steven	D.	Williams	Vice President
Robin		Winslett	Associate Vice President
Mark		Winstead	Senior Vice President
Ernest	D.	Wright	Executive Vice President
Jeanine	L	Wright	Vice President
Wei Leong		Yong	Vice President
Nathan	Allen	Young	Vice President
Edward	D.	Zhu	Associate Vice President
Jason	A.	Zoller	Associate Vice President

REQUEST FOR PROPOSAL NO. 2020-58
PROFESSIONAL ENGINEERING SERVICES-CONTINUING SERVICES CONTRACTS FOR
CITY OF NORTH PORT UTILITIES DEPARTMENT

REFERENCES/CLIENT LISTING

The firm shall provide a minimum of six (6) business related references for which they are currently providing or have provided within the last five (5) years, services similar to the scope of services required by this RFP. Of the six (6) references, please provide at least two (2) references for each of the following two disciplines: potable water treatment and wastewater treatment; and, provide at least one (1) reference for each of the following two disciplines: pipeline design and hydrogeology. If the firm has any indirect or direct potable reuse experience, please provide a reference. Attach additional sheets if necessary.

1. Business/Customer Name: Peace River Manasota Regional Water Supply Authority

Name of Contact Person/Title: Kevin Morris, Science and Technology Officer

Telephone# (941) 316-1776 Fax (941) 316-1772 E-mail kmorris@regionalwater.org

Address 9415 Town Center Parkway, Lakewood Ranch, Florida 34202

Phone Number (941) 316-1776 Discipline (circle): WTP; WWTF; pipeline; hydrogeo, potable reuse

Duration of Contract or business relationship 7 years

Type of Services Provided Feasibility studies, permitting, asset management, design drawings and specifications, construction administration, construction inspection

2. Business/Customer Name: City of Fort Myers, Florida

Name of Contact Person/Title: Richard Moulton, Public Works Director

Telephone# (239) 321-7216 Fax (239) 344-5951 E-mail RMoulton@cityftmyers.com

Address 2200 Second Street, Fort Myers, Florida 33901

Phone Number (239) 321-7216 Discipline (circle): WTP; WWTF; pipeline; hydrogeo, potable reuse

Duration of Contract or business relationship 14 years

Type of Services Provided Feasibility studies, permitting, planning studies, hydraulic modeling, design drawings and specifications, construction services, operations assistance

3. Business/Customer Name: City of Venice, Florida

Name of Contact Person/Title: Javier Vargas, PE, Public Utilities Director

Telephone# (941) 882-7309 Fax n/a E-mail JVargas@venicegov.net

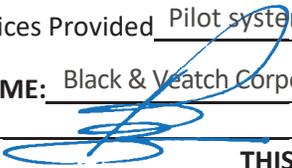
Address 3510 East Laurel Road, Venice, FL 34275

Phone Number (941) 882-7309 Discipline (circle): WTP; WWTF; pipeline; hydrogeo, potable reuse

Duration of Contract or business relationship 2 years

Type of Services Provided Pilot system operation and a detailed feasibility study

COMPANY NAME: Black & Veatch Corporation

SIGNATURE: 

THIS PAGE MUST BE SUBMITTED WITH PROPOSAL

**REQUEST FOR PROPOSAL NO. 2020-58
PROFESSIONAL ENGINEERING SERVICES-CONTINUING SERVICES CONTRACTS FOR
CITY OF NORTH PORT UTILITIES DEPARTMENT**

4. Business/Customer Name: Pinellas County, Florida
Name of Contact Person/Title: Diana Smilova, Engineering Design Manager
Telephone# (727) 893-4165 Fax n/a E-mail Diana.Smilova@stpete.org
Address One Forth Street North, St. Petersburg, Florida 33701
Phone Number (727) 893-4165 Discipline (circle): WTP; WWTF pipeline; hydrogeo, potable reuse
Duration of Contract or business relationship 4 years
Type of Services Provided Feasibility studies, permitting, planning studies, hydraulic modeling, design drawings and specifications, construction services, and operations assistance
5. Business/Customer Name: Pasco County, Florida
Name of Contact Person/Title: Ibzan Ortiz, PE, Project Manager
(813) 235-6189
Telephone# ext 6941 Fax n/a E-mail lortiz@pascocountyfl.com
Address 19420 Central Blvd., 2nd Floor, Land O' Lakes, Florida 34637
(813) 235-6189
Phone Number ext 6941 Discipline (circle): WTP; WWTF pipeline; hydrogeo, potable reuse
Duration of Contract or business relationship 4 years
Type of Services Provided Feasibility studies, permitting, planning studies, hydraulic modeling, design drawings and specifications, electrical & I&C design, construction services and, operations assistance
6. Business/Customer Name: Hillsborough County, Florida
Name of Contact Person/Title: Bob Tisdale, Section Manager
Telephone# (813) 612-7756 Fax (813) 272-5589 E-mail TisdaleH@HillsboroughCounty.org
Address 925 E. Twiggs Street, Tampa, Florida 33602
Phone Number (813) 612-7756 Discipline (circle): WTP; WWTF; pipeline hydrogeo, potable reuse
Duration of Contract or business relationship 32 years
Type of Services Provided Feasibility studies, permitting, planning studies, hydraulic modeling, design drawings and specifications, construction services, and operations assistance

COMPANY NAME: Black & Veatch Corporation

SIGNATURE: 

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REQUEST FOR PROPOSAL NO. 2020-58
PROFESSIONAL ENGINEERING SERVICES-CONTINUING SERVICES CONTRACTS FOR
CITY OF NORTH PORT UTILITIES DEPARTMENT

DRUG FREE WORKPLACE FORM

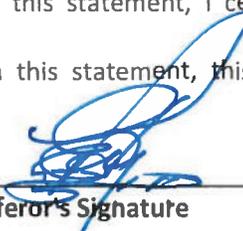
The undersigned Consultant in accordance with Florida Statute 287.087 hereby certifies that Black & Veatch Corporation does:

(Company Name)

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.

Check one:

- As the person authorized to sign this statement, I certify that this firm complies fully with above requirements.
- As the person authorized to sign this statement, this firm **does not** comply fully with the above requirements.



Offeror's Signature

Rafael E. Frias III, PE
Associate Vice President

07/09/2020

Date

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PUBLIC ENTITY CRIME INFORMATION

As provided by F.S. §287.133, a person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a Contractor, Supplier, Subcontractor, or Consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.

I, Rafael E. Frias III, PE, being an authorized representative of the Respondent, Black & Veatch Corporation, located at 4415 Metro Parkway, Suite 200

City: Fort Myers State: Florida Zip Code: 33916, have read and understand the contents above. I further certify that Respondent is not disqualified from replying to this solicitation because of F.S. §287.133.

Signature: [Handwritten Signature] Date: 07/09/2020

Telephone #: 954-465-6872 (c) Fax #: N/A

Federal ID #: 43-1833073

STATE OF FLORIDA
COUNTY OF Broward

Sworn to (or affirmed) and subscribed before me by means of physical presence or online notarization, this 9th day of July, 2020 by Rafael E. Frias III

[Handwritten Signature] Jaclyn Hines
Notary Public, State of Florida

Personally Known OR Produced Identification
Type of Identification Produced n/a



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REQUEST FOR PROPOSAL NO. 2020-58
PROFESSIONAL ENGINEERING SERVICES-CONTINUING SERVICES CONTRACTS FOR
CITY OF NORTH PORT UTILITIES DEPARTMENT

NON-COLLUSIVE AFFIDAVIT

Before me, the undersigned authority, personally appeared:

Rafael E. Frias III, PE who, being first duly sworn, deposes and says that:

1. He/She is the Associate Vice President (Owner, Partner, Officer, Representative or Agent) of Black & Veatch Corporation, the Respondent that has submitted the attached reply;
2. He/She is fully informed respecting the preparation and contents of the attached reply and of all pertinent circumstances respecting such reply;
3. Such reply is genuine and is not a collusive or sham reply;
4. Neither the said Respondent nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, have in any way colluded, conspired, connived or agreed, directly or indirectly, with any other respondent, firm, or person to submit a collusive or sham reply in connection with the work for which the attached reply has been submitted; or have in any manner, directly or indirectly sought by agreement or collusion, or communication or conference with any respondent, firm, or person to fix the price or prices in the attached reply or of any other respondent, or to fix any overhead, profit, or cost elements of the reply price or the reply price of any other respondent, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against (Recipient), or any person interested in the reply work.

Signed, sealed and delivered this 9th day of July, 2020.
By: [Signature]
Rafael E. Frias III, PE
(Printed Name)
Associate Vice President
(Title)

STATE OF FLORIDA
COUNTY OF Broward

Sworn to (or affirmed) and subscribed before me by means of physical presence or online notarization, this 9th day of July, 2020 by Rafael E. Frias III.

[Signature] Jaclyn Hines
Notary Public - State of Florida

Personally Known OR Produced Identification
Type of Identification Produced N/A



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LOBBYING CERTIFICATION

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

STATE OF Florida

COUNTY OF broward

This 9th day July of 2020.

Rafael E. Frias III, PE, being first duly sworn, deposes and says that he or she is the authorized representative of Black & Veatch Corporation (Name of the contractor, firm or individual), and that the vendor and any of its agents agree to have no contact or communication with, or discuss any matter related in any way to any active City of North Port solicitation, with any City of North Port elected officials, officers, their appointees or their agents or any other staff or outside individuals working with the city in respect to this request other than the designated Procurement Official Contact and to abide by the restrictions outlined in the General Terms and Conditions of the Solicitation. Technical questions directed to the project manager, is prohibited. These persons shall not be lobbied, either individually or collectively, regarding any questions for bid, proposal, qualification and/or any other solicitations released by the city. To do so is grounds for immediate disqualification from the selection process. The selection process is not considered final until such a time as the Commission has made a final and conclusive determination.

(a) No City appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence either directly or indirectly an officer or employee of the City, City Commission in connection with the awarding of any City Contract.

(b) If any funds other than City appropriated funds have been paid or will be paid to any person for influencing or attempting to influence a member of City Commission or an officer or employee of the City in connection with this contract, the undersigned shall complete and submit Standard Form-L "Disclosure Form to Report Lobbying", in accordance with its instructions.

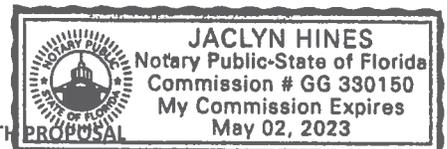
Signed, sealed and delivered this 9th day of July, 2020.
By: [Signature]
(Printed Name)
Rafael E. Frias III, PE

STATE OF FLORIDA
COUNTY OF broward

Sworn to (or affirmed) and subscribed before me by means of physical presence or online notarization, this 9th day of July, 2020, by Rafael E. Frias

[Signature]
Notary Public - State of Florida

Personally Known OR Produced Identification
Type of Identification Produced N/A



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REQUEST FOR PROPOSAL NO. 2020-58
PROFESSIONAL ENGINEERING SERVICES-CONTINUING SERVICES CONTRACTS FOR
CITY OF NORTH PORT UTILITIES DEPARTMENT

CONFLICT OF INTEREST FORM

F.S. §112.313 places limitations on public officers (including advisory board members) and employees' ability to contract with the City either directly or indirectly. Therefore, please indicate if the following applies:

PART I.

- I am an employee, public officer or advisory board member of the City
_____ (List Position Or Board)

- I am the spouse or child of an employee, public officer or advisory board member of the City
Name: _____

- An employee, public officer or advisory board member of the City, or their spouse or child, is an officer, partner, director, or proprietor of Respondent or has a material interest in Respondent. "Material interest" means direct or indirect ownership of more than 5 percent of the total assets or capital stock of any business entity. For the purposes of [§112.313], indirect ownership does not include ownership by a spouse or minor child.
Name: _____

- Respondent employs or contracts with an employee, public officer or advisory board member of the City
Name: _____

- None Of The Above

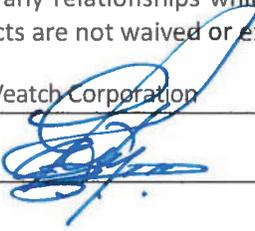
PART II:

Are you going to request an advisory board member waiver?

- I will request an advisory board member waiver under §112.313(12)
- I will NOT request an advisory board member waiver under §112.313(12)
- N/A

The City shall review any relationships which may be prohibited under the Florida Ethics Code and will disqualify any vendors whose conflicts are not waived or exempt.

COMPANY: Black & Veatch Corporation

SIGNATURE:  _____ Rafael E. Frias III, PE, Associate Vice President

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DISCLOSURE FORM
FOR
CONSULTANT/ENGINEER/ARCHITECT

Please select (only) one of the following three options:

Our firm has no actual, potential, or reasonably perceived, **financial*** or **other interest**** in the outcome of the project.

Our firm has a potential or reasonably perceived **financial*** or **other interest**** in the outcome of the project as described here: _____.

Our firm proposes to mitigate the potential or perceived conflict according to the following plan:
_____.

Our firm has an actual **financial*** or **other interest**** in the outcome of the project as described here:
_____.

***What does "financial interest" mean?**

If your firm, or employee of your firm working on the project (or a member of the employee's household), will/may be perceived to receive or lose private income depending on the government business choices based on your firm's findings and recommendations, this must be listed as a financial interest. An example would be ownership in physical assets affected by the government business choices related to this project. The possibility of contracting for further consulting services is not included in this definition and is not prohibited.

****What does "other interest" mean?**

If your firm, or employee of your firm working on the project (or a member of the employee's household), will/may be perceived to have political, legal or any other interests that will affect what goes into your firm's findings and recommendations, or will be/may be perceived to be affected by the government business choices related to this project, this must be listed as another interest.

BUSINESS NAME: Black & Veatch Corporation

NAME (PERSON AUTHORIZED TO BIND THE COMPANY): Rafael E. Frias III, PE, Associate Vice President

SIGNATURE:  _____ DATE: 07/09/2020

THIS PAGE MUST BE SUBMITTED WITH PROPOSAL

REQUEST FOR PROPOSAL NO. 2020-58
PROFESSIONAL ENGINEERING SERVICES-CONTINUING SERVICES CONTRACTS FOR
CITY OF NORTH PORT UTILITIES DEPARTMENT

Scrutinized Company Certification Form

Company Name: <u>Black & Veatch Corporation</u>			
Authorized Representative Name and Title: <u>Rafael E. Frias III, PE, Associate Vice President</u>			
Address: <u>4415 Metro Parkway, Suite 200</u>	City: <u>Fort Myers</u>	State: <u>Florida</u>	ZIP: <u>33916</u>
Phone Number: <u>954-465-6872 (c)</u>	Email Address: <u>FriasRE@BV.com</u>		

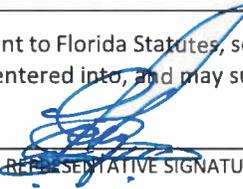
A company is ineligible to, and may not, bid on, submit a proposal for, or enter into or renew a contract with the City of North Port for goods or services of any amount if, at the time of bidding on, submitting a proposal for, or entering into or renewing such contract, the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to Florida Statutes, section 215.4725, or is engaged in a boycott of Israel.

A company is ineligible to, and may not, bid on, submit a proposal for, or enter into or renew a contract with the City of North Port for goods or services of \$1 million or more if, at the time of bidding on, submitting a proposal for, or entering into or renewing such contract, the company is on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to Florida Statutes, section 215.473, or with companies engaged in business operations in Cuba or Syria.

CHOOSE ONE OF THE FOLLOWING

- This bid, proposal, contract or contract renewal is for goods or services of less than \$1 million. As the person authorized to sign on behalf of the above-named company, and as required by Florida Statutes, section 287.135(5), I hereby certify that the above-named company is not participating in a boycott of Israel.

- This bid, proposal, contract or contract renewal is for goods or services of \$1 million or more. As the person authorized to sign on behalf of the above-named company, and as required by Florida Statutes, section 287.135(5), I hereby certify that the above-named company is not participating in a boycott of Israel, is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, and it does not have business operations in Cuba or Syria.

I understand that pursuant to Florida Statutes, section 287.135, the submission of a false certification may result in the termination of the contract if one is entered into, and may subject the above-named company to civil penalties, attorney's fees and costs.	
Certified By: _____	
AUTHORIZED REPRESENTATIVE SIGNATURE	
Print Name and Title: <u>Rafael E. Frias III, PE, Associate Vice President</u>	
Date Certified: _____	<u>07/09/2020</u>

Solicitation/Contract/PO Number (Completed by Purchasing): 2020-58

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END OF PART IV

FLORIDA PROFESSIONAL LICENSES INDEX

Ron DeSantis, Governor

STATE OF FLORIDA

FBPE
FLORIDA BOARD OF PROFESSIONAL ENGINEERS

BOARD OF PROFESSIONAL ENGINEERS
THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

BLACK & VEATCH CORPORATION
8400 WARD PARKWAY
KANSAS CITY MO 64114

LICENSE NUMBER: CA8132
EXPIRATION DATE: FEBRUARY 28, 2021
Always verify licenses online at MyFloridaLicense.com

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Ron DeSantis, Governor

Halsey Beshears, Secretary

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

dbpr

BOARD OF ARCHITECTURE & INTERIOR DESIGN
THE ARCHITECT BUSINESS HEREIN IS CERTIFIED UNDER THE PROVISIONS OF CHAPTER 481, FLORIDA STATUTES

BLACK & VEATCH CORPORATION
11401 LAMAR
OVERLAND PARK KS 66211

LICENSE NUMBER: AA26003264
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BOARD OF PROFESSIONAL ENGINEERS
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BOTERO, LUCAS
1972 NEW HAVEN AVE
WELLINGTON FL 33414

LICENSE NUMBER: PE67242
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BROUILLETTE, LAWRENCE JOSEPH
2052 EAST HAMPTON CIRCLE
WINTER PARK FL 32792

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BURBANO, ARTURO A.
5958 NW 113TH PL
DORAL FL 33178

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BURCHETT, ROBERT Y.
15923 NOTTINGHILL DRIVE
LUTZ FL 33548

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ECKHARDT, NICHOLAS WALTER
1242 ZINCOE LANE
LAND O LAKES FL 34638

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HAMILTON, DEANNA SHAPIRO
1706 S LOIS AVE
TAMPA FL 33629

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JACKSON, JO ANN
1240 CLASSIC DRIVE
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KING, STEVEN ERIC
2820 NORTH MORGAN STREET
TAMPA FL 33602

LICENSE NUMBER: PE74954
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BOB SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

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MARTIN, MARK EDWARD
8931 BAYTOWNE LOOP
FORT MYERS FL 33908

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Haley Beahm, Secretary


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MCGEE, JAMES MICHAEL
 495 RAVENWOOD BLVD
 PORT CHARLOTTE FL 33954

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JONATHAN ZACHEM, SECRETARY


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DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL GEOLOGISTS
 THE PROFESSIONAL GEOLOGIST HEREIN IS LICENSED UNDER THE
 PROVISIONS OF CHAPTER 492, FLORIDA STATUTES

RECTENWALD, E EDWARD
 1159 LAKELAND CIRCE
 FORT MYERS FL 33913

LICENSE NUMBER: PG2609
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Haley Beahm, Secretary


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SANTIAGO, ROBERTO A
 13244 LONGACRE DR
 WINDERMERE FL 34784

LICENSE NUMBER: PE83928
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Haley Beahm, Secretary


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SCHWERMAN, AMANDA KAY
 4495 9TH AVE N
 SAINT PETERSBURG FL 33713

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CHOMTID, SUPPAKIT
 15209 SHEARCREST DRIVE
 LITHIA FL 33547

LICENSE NUMBER: PE6256
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TACHE, MICHAEL NELSON
 3221 8TH AVENUE N
 ST. PETERSBURG FL 33713

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DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS
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TAYLOR, RICHARD DANIEL
 2252 CLUB HLN
 LAKELAND FL 32813204

LICENSE NUMBER: PE33376
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VANLANDINGHAM, BRAD W.
 4420 SEAWATER STREET
 ORLANDO FL 32812

LICENSE NUMBER: PE44795
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RICK SCOTT, GOVERNOR
JONATHAN ZACHEM, SECRETARY


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DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS
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WESTFALL, ANDREW A.
 16409 PENSHURST PLACE
 LUTZ FL 33549

LICENSE NUMBER: PE47693
EXPIRATION DATE: FEBRUARY 28, 2021
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Previous Insurance Certificate



CERTIFICATE OF LIABILITY INSURANCE

11/1/2014

DATE (MM/DD/YYYY)

11/1/2013

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

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

PRODUCER Lockton Companies 444 W. 47th Street, Suite 900 Kansas City MO 64112-1906 (816) 960-9000	CONTACT NAME: PHONE (A/C, No, Ext): FAX (A/C, No): E-MAIL ADDRESS:													
	<table border="1"> <tr> <th>INSURER(S) AFFORDING COVERAGE</th> <th>NAIC #</th> </tr> <tr> <td>INSURER A : Zurich American Insurance Company</td> <td>16535</td> </tr> <tr> <td>INSURER B : American Zurich Insurance Company</td> <td>40142</td> </tr> <tr> <td>INSURER C :</td> <td></td> </tr> <tr> <td>INSURER D :</td> <td></td> </tr> <tr> <td>INSURER E :</td> <td></td> </tr> <tr> <td>INSURER F :</td> <td></td> </tr> </table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A : Zurich American Insurance Company	16535	INSURER B : American Zurich Insurance Company	40142	INSURER C :		INSURER D :		INSURER E :		INSURER F :
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INSURED 1058332 BLACK & VEATCH CORP 11401 LAMAR OVERLAND PARK KS 66211 Hawkins, James M. (Jim)														

COVERAGES BLAVE01 **CERTIFICATE NUMBER:** 10993724 **REVISION NUMBER:** XXXXXXXX

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> CONTRACTUAL <input checked="" type="checkbox"/> BFPD & C/O & XCU GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:	Y	Y	GLO 4641358	11/1/2013	11/1/2014	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 1,000,000 \$
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input checked="" type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	Y	Y	BAP 4641355 (AOS)	11/1/2013	11/1/2014	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ XXXXXXXX BODILY INJURY (Per accident) \$ XXXXXXXX PROPERTY DAMAGE (Per accident) \$ XXXXXXXX \$ XXXXXXXX
	<input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$			NOT APPLICABLE			EACH OCCURRENCE \$ XXXXXXXX AGGREGATE \$ XXXXXXXX \$ XXXXXXXX
B A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N	N/A	WC 4641353 (AOS) WC 4641354 (WI & MA)	11/1/2013 11/1/2013	11/1/2014 11/1/2014	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 Project 169378 Contract Name: Emergency Authorization for Rapid Infrastructure Review & Safety Audit, Contract No. C-654. City of Atlanta, BGR Joint Venture, consisting of Black & Veatch Corporation (B&V), Rohadfox Construction Control Services (Rohadfox), and Gresham, Smith and Partners (GSP) are included as additional insureds on General Liability and Auto Liability as required by written contract. Waiver of subrogation in favor of addl insured as respects General Liability and Auto Liability as required by written contract and permitted by state law.

CERTIFICATE HOLDER 10993724 The City of Atlanta Attn: Risk Management 68 Mitchell Street, Suite 9100 Atlanta GA 30303	CANCELLATION See Attachments SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
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